

K-LITE

Light Output Ratio:	26.0%	
Luminaire Power:	12.24 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

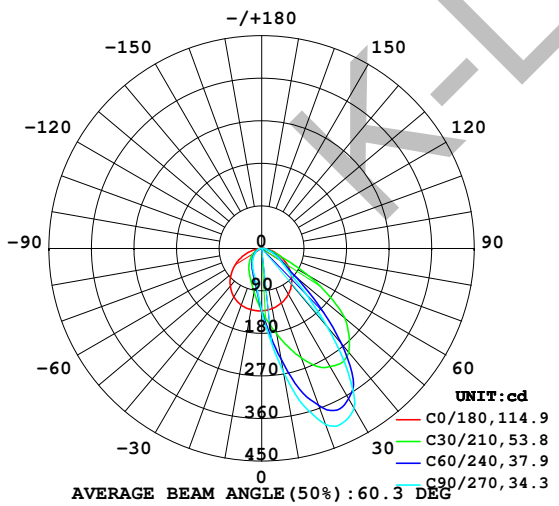
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.76V I:0.0541A P:12.236W PF:0.9810 Freq:49.98Hz Lamp Flux:1742.04x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4767
MFR.: K-LITE	SUR.:	Shielding Angle:

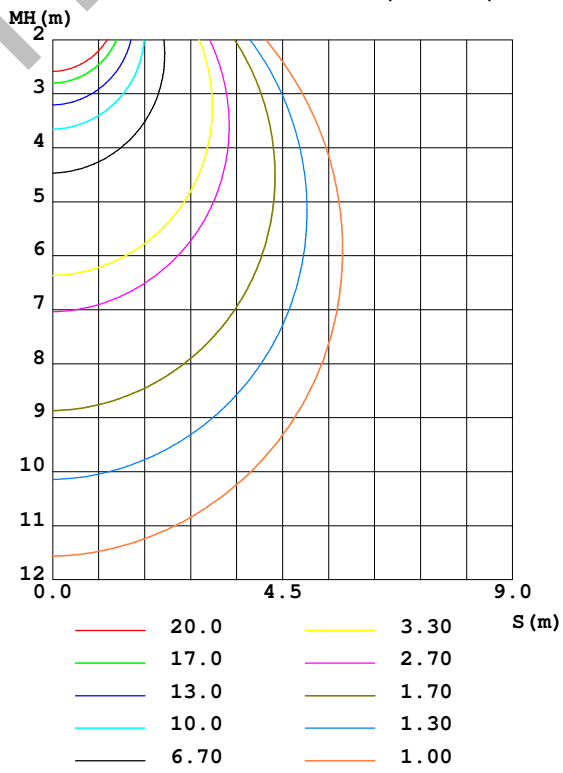
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 36.97 lm/W	
MODEL	KL-2742	Imax(cd)	408.0	S/MH(C0/180)	1.32
NOMINAL POWER(W)	12	LOR(%)	26.0	S/MH(C90/270)	0.39
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	452.34	η UP,DN(C0-180)	0.0,21.1
NOMINAL FLUX(lm)	1742.04	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,4.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230	η down(%)	26.0	CIBSE SHR MAX	0.80

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):60.3 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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γ Range: 0 - 90DEG
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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
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Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	129.3	212.9	264.5	216.1	131.8	83.92	72.91	83.10	0- 10	13.41	13.41	2.97,0.77
20	122.9	311.1	396.2	321.9	127.6	60.72	52.40	59.95	10- 20	47.58	60.99	13.5,3.5
30	112.8	346.9	390.7	364.9	118.2	46.85	39.57	46.21	20- 30	85.59	146.6	32.4,8.41
40	98.57	299.0	214.5	316.1	103.7	35.45	29.72	35.04	30- 40	104.4	251.0	55.5,14.4
50	80.25	163.4	73.28	169.6	84.74	25.61	21.54	25.37	40- 50	87.44	338.5	74.8,19.4
60	58.76	55.76	40.30	56.84	62.12	17.03	14.54	16.93	50- 60	59.05	397.5	87.9,22.8
70	35.88	25.85	21.04	26.45	37.43	9.725	8.616	9.724	60- 70	35.40	432.9	95.7,24.9
80	13.73	9.232	7.960	9.278	13.59	3.931	3.619	3.998	70- 80	16.28	449.2	99.3,25.8
90	0	0	0	0	0	0.0002	0	0	80- 90	3.165	452.3	100,26
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

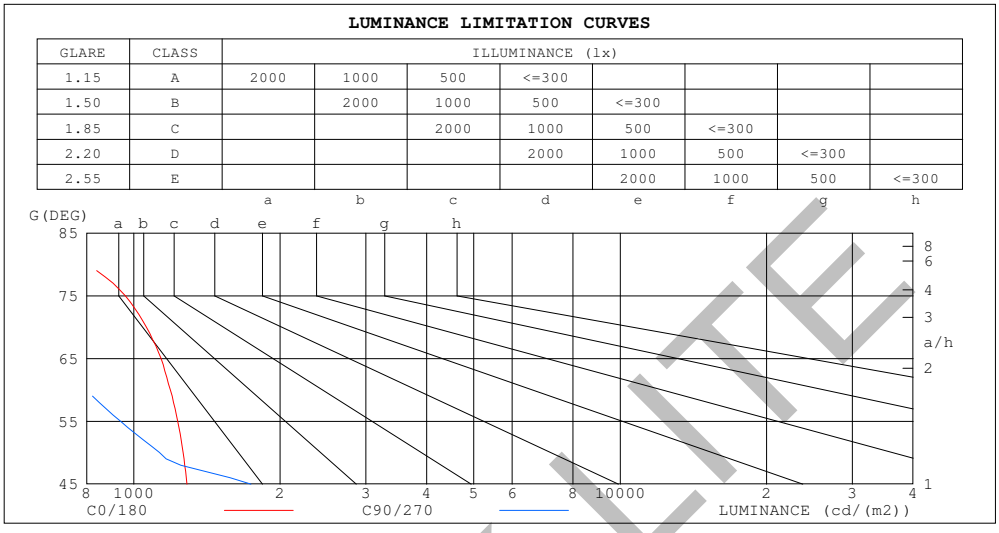
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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

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SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4767
MFR.: K-LITE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	515	278
80	800	454
75	961	537
70	1061	610
65	1138	694
60	1189	799
55	1232	939
50	1263	1130
45	1286	1742

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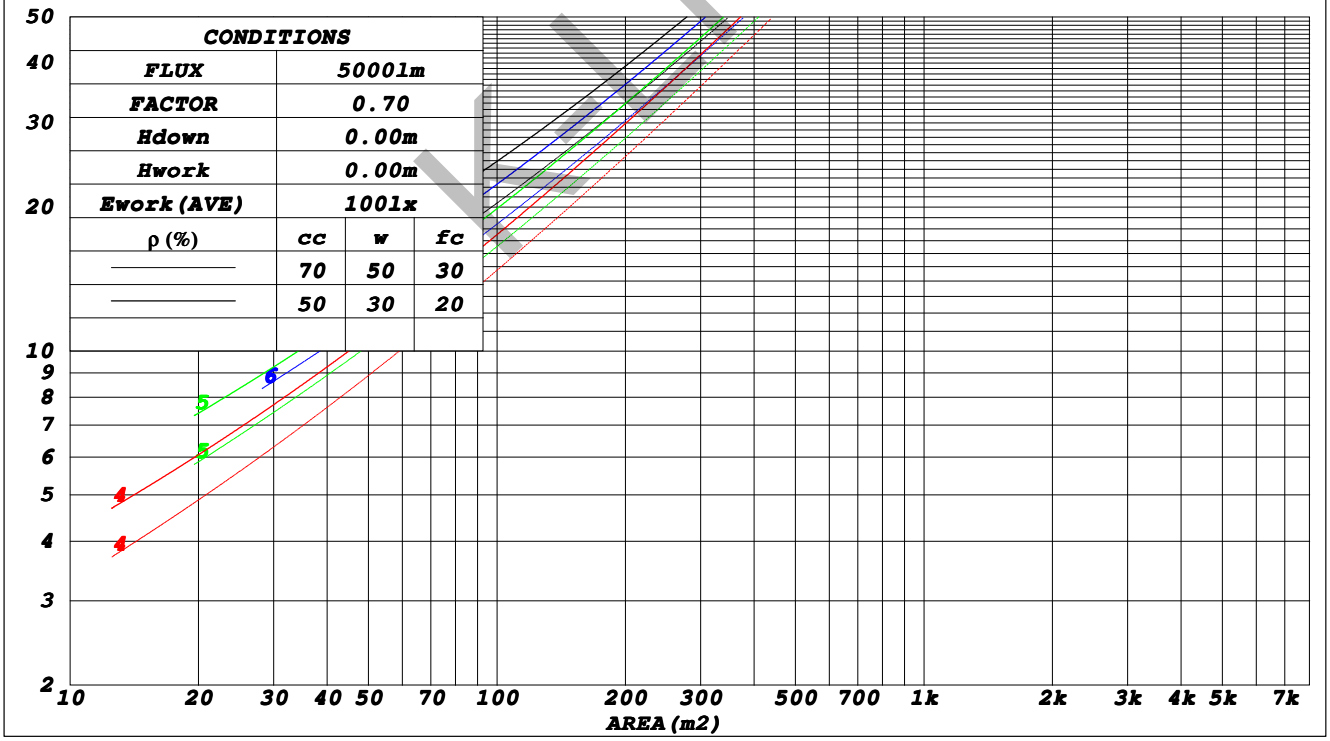
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4767
MFR.: K-LITE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	.31	.31	.31	.30	.30	.30	.29	.29	.29	.28	.28	.28	.26	.26	.26	.26
1.0	.28	.27	.26	.27	.26	.25	.26	.25	.25	.25	.24	.24	.24	.24	.23	.23
2.0	.24	.23	.22	.24	.23	.21	.23	.22	.21	.22	.21	.20	.21	.21	.20	.19
3.0	.22	.20	.18	.21	.20	.18	.21	.19	.18	.20	.19	.18	.19	.18	.17	.17
4.0	.19	.17	.16	.19	.17	.16	.19	.17	.15	.18	.16	.15	.17	.16	.15	.15
5.0	.18	.15	.14	.17	.15	.14	.17	.15	.14	.16	.15	.13	.16	.14	.13	.13
6.0	.16	.14	.12	.16	.14	.12	.15	.13	.12	.15	.13	.12	.14	.13	.12	.11
7.0	.14	.12	.11	.14	.12	.11	.14	.12	.11	.13	.12	.11	.13	.12	.10	.10
8.0	.13	.11	.10	.13	.11	.10	.13	.11	.10	.12	.11	.09	.12	.11	.09	.09
9.0	.12	.10	.09	.12	.10	.09	.12	.10	.09	.11	.10	.09	.11	.10	.09	.08
10.0	.11	.09	.08	.11	.09	.08	.11	.09	.08	.11	.09	.08	.10	.09	.08	.07

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
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Remarks:

WEC AND CCEC

Test:U:230.76V I:0.0541A P:12.236W PF:0.9810 Freq:49.98Hz Lamp Flux:1742.04x1 lm		
NAME: SUDO – GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4767
MFR.: K-LITE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coeffcients(WEC)												
0.0																
1.0	.069	.039	.012	.067	.038	.012	.064	.037	.012	.061	.035	.011	.058	.033	.011	
2.0	.066	.036	.011	.065	.036	.011	.062	.034	.011	.059	.033	.010	.057	.032	.010	
3.0	.063	.033	.010	.061	.033	.010	.059	.032	.010	.056	.031	.009	.054	.030	.009	
4.0	.059	.031	.009	.058	.030	.009	.055	.029	.009	.053	.029	.009	.051	.028	.008	
5.0	.055	.028	.008	.054	.028	.008	.052	.027	.008	.050	.026	.008	.048	.026	.008	
6.0	.052	.026	.007	.051	.026	.007	.049	.025	.007	.047	.025	.007	.046	.024	.007	
7.0	.049	.024	.007	.048	.024	.007	.046	.023	.007	.045	.023	.007	.043	.022	.007	
8.0	.046	.022	.006	.045	.022	.006	.043	.022	.006	.042	.021	.006	.041	.021	.006	
9.0	.043	.021	.006	.042	.021	.006	.041	.020	.006	.040	.020	.006	.039	.020	.006	
10.0	.041	.020	.005	.040	.019	.005	.039	.019	.005	.038	.019	.005	.037	.019	.005	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.049	.049	.049	.042	.042	.042	.029	.029	.029	.017	.017	.017	.005	.005	.005	
1.0	.046	.041	.036	.039	.035	.031	.027	.024	.021	.016	.014	.012	.005	.004	.004	
2.0	.043	.034	.027	.037	.030	.023	.026	.020	.016	.015	.012	.009	.005	.004	.003	
3.0	.041	.030	.020	.035	.026	.018	.024	.018	.012	.014	.010	.007	.005	.003	.002	
4.0	.039	.026	.016	.034	.023	.014	.023	.016	.010	.013	.009	.006	.004	.003	.002	
5.0	.037	.023	.013	.032	.020	.011	.022	.014	.008	.013	.008	.005	.004	.003	.002	
6.0	.036	.021	.011	.031	.018	.009	.021	.013	.007	.012	.008	.004	.004	.002	.001	
7.0	.034	.019	.009	.029	.017	.008	.020	.012	.006	.012	.007	.003	.004	.002	.001	
8.0	.032	.018	.008	.028	.015	.007	.019	.011	.005	.011	.006	.003	.004	.002	.001	
9.0	.031	.017	.007	.027	.014	.006	.018	.010	.004	.011	.006	.003	.003	.002	.001	
10.0	.030	.015	.006	.026	.013	.005	.018	.009	.004	.010	.006	.002	.003	.002	.001	

K-LITE

C Range: 0 – 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 – 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.76V I:0.0541A P:12.236W PF:0.9810 Freq:49.98Hz Lamp Flux:1742.04x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4767
MFR.: K-LITE	SUR.:	Shielding Angle:

ceiling/cavity		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H	y = 2H	16.4	17.8	16.7	18.0	18.2	12.6	14.0	12.9	14.2	14.4
	3H	17.6	18.9	17.9	19.2	19.4	12.9	14.2	13.2	14.4	14.6
	4H	18.1	19.3	18.4	19.6	19.8	13.0	14.2	13.3	14.4	14.7
	6H	18.3	19.4	18.6	19.7	20.0	13.0	14.2	13.4	14.4	14.7
	8H	18.3	19.4	18.6	19.7	19.9	13.0	14.1	13.4	14.4	14.7
	12H	18.2	19.3	18.6	19.6	19.9	13.0	14.1	13.4	14.4	14.7
4H	2H	16.3	17.5	16.6	17.8	18.0	13.1	14.3	13.4	14.6	14.8
	3H	17.6	18.7	18.0	19.0	19.3	13.5	14.5	13.8	14.8	15.1
	4H	18.1	19.1	18.5	19.4	19.7	13.6	14.6	14.0	14.9	15.2
	6H	18.4	19.3	18.8	19.6	20.0	13.8	14.6	14.2	15.0	15.3
	8H	18.4	19.2	18.9	19.6	20.0	13.8	14.6	14.2	14.9	15.3
	12H	18.4	19.2	18.9	19.5	19.9	13.8	14.5	14.2	14.9	15.3
8H	4H	18.1	18.8	18.5	19.2	19.6	13.8	14.5	14.2	14.9	15.3
	6H	18.4	19.0	18.8	19.4	19.8	14.0	14.6	14.4	15.0	15.4
	8H	18.4	19.0	18.9	19.4	19.9	14.0	14.6	14.5	15.0	15.5
	12H	18.5	18.9	18.9	19.4	19.9	14.1	14.5	14.5	15.0	15.5
12H	4H	18.0	18.7	18.4	19.1	19.5	13.7	14.5	14.2	14.8	15.2
	6H	18.3	18.9	18.8	19.3	19.8	14.0	14.5	14.4	15.0	15.4
	8H	18.4	18.9	18.9	19.3	19.8	14.1	14.5	14.5	15.0	15.5

Variations with the observer position at spacings:		
S = 1.0H	+ 1.4 / - 2.0	+ 1.3 / - 2.2
1.5H	+ 1.3 / - 4.0	+ 1.6 / - 2.0
2.0H	+ 1.6 / - 4.1	+ 1.7 / - 1.4

CIE Pub.117, 1742 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.9)
Area: 0.1 m2

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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
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UTILIZATION FACTORS TABLE

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REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	17	14	12	16	14	12	16	14	12	11
0.80	19	16	15	19	16	15	18	16	15	13
1.00	21	19	17	21	19	17	20	19	17	15
1.25	23	21	19	23	20	19	22	20	19	17
1.50	24	22	20	24	22	20	23	21	20	18
2.00	26	24	22	25	24	22	24	23	22	20
2.50	27	25	24	26	25	23	25	24	23	21
3.00	27	26	25	27	25	24	26	25	24	22
4.00	28	27	26	28	27	26	27	26	25	23
5.00	29	28	27	28	27	26	27	26	26	23
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

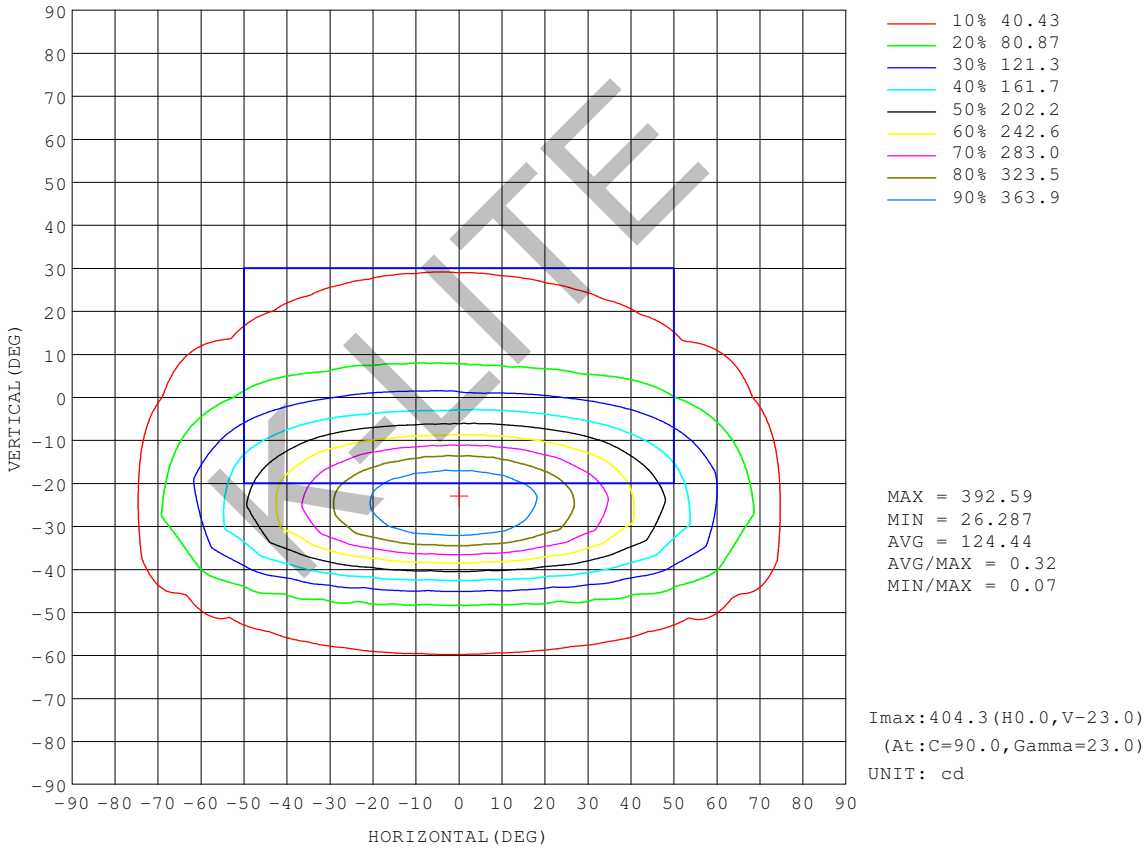
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ISOCANDELA DIAGRAM

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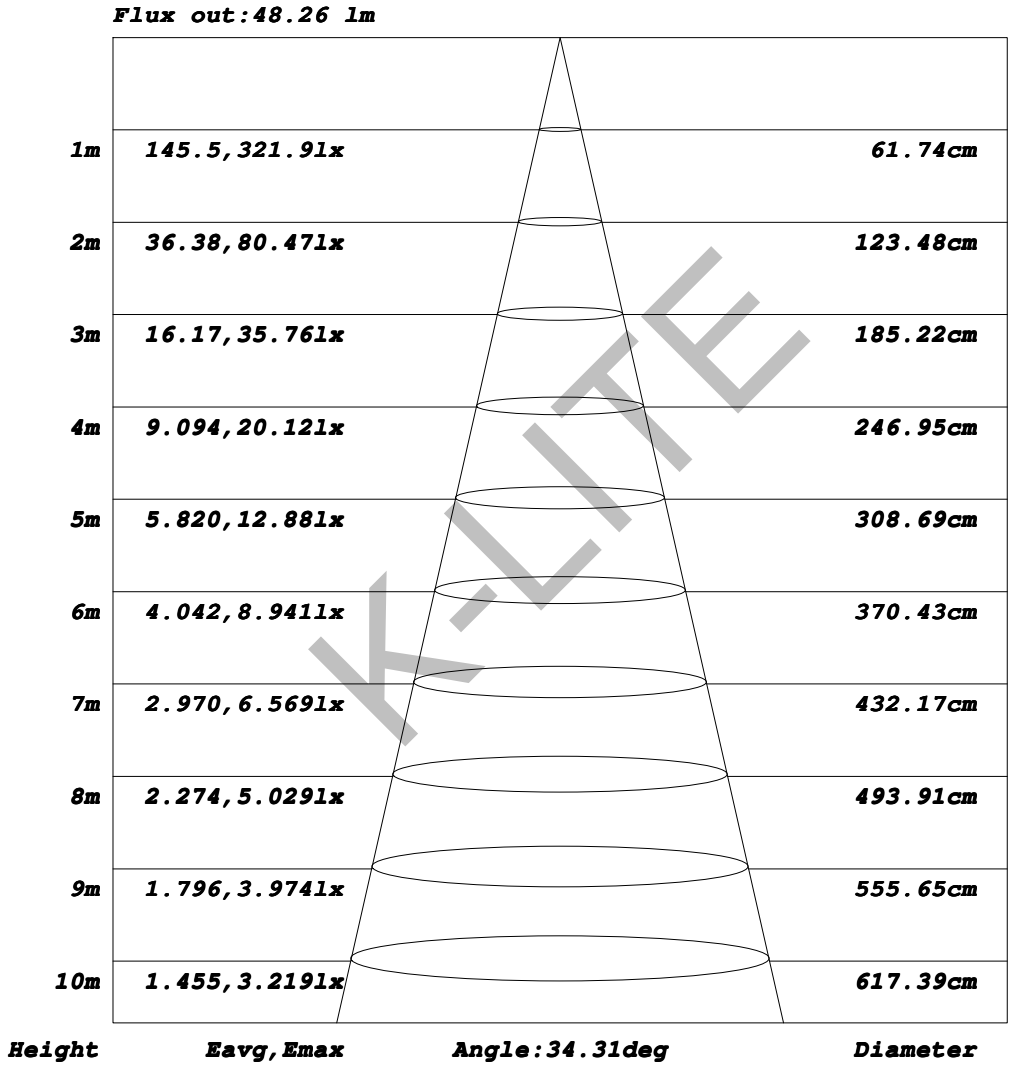


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AAI Figure

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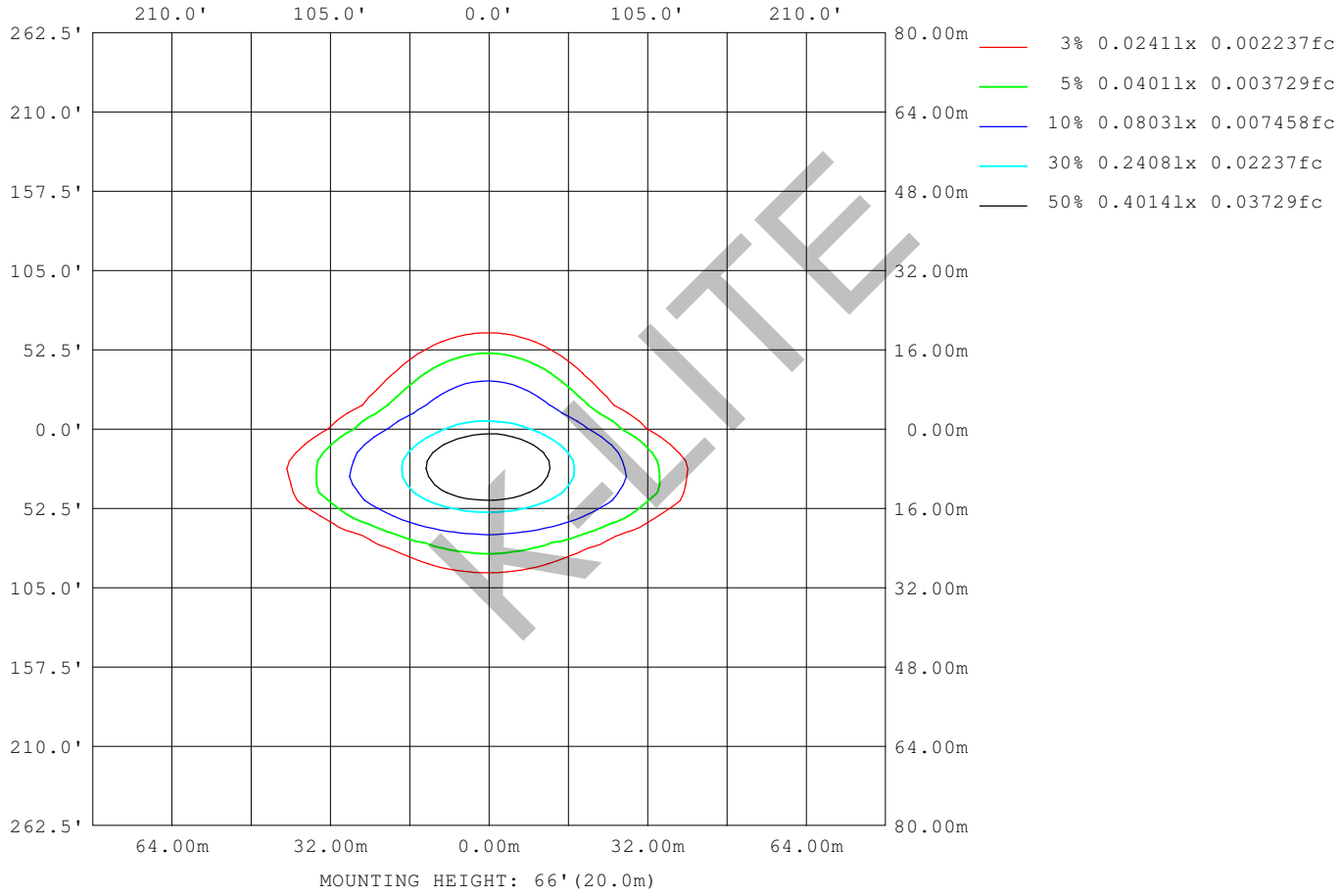
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Remarks:

ISOLUX DIAGRAM

Test:U:230.76V I:0.0541A P:12.236W PF:0.9810 Freq:49.98Hz Lamp Flux:1742.04x1 lm		
NAME: SUDO – GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4767
MFR.: K-LITE	SUR.:	Shielding Angle:



C Range: 0 – 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 – 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LED Avg.L Report

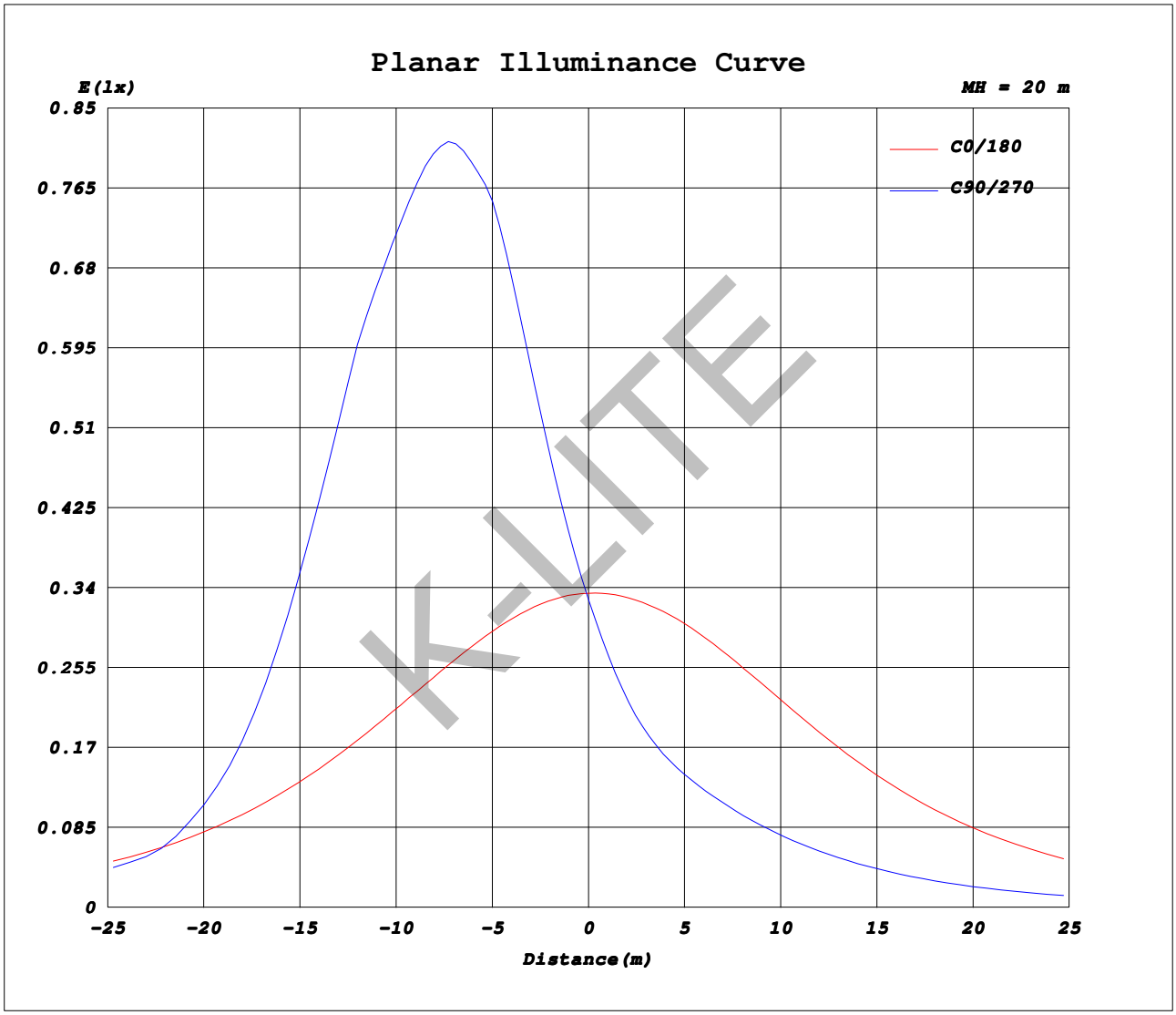
Test:U:230.76V I:0.0541A P:12.236W PF:0.9810 Freq:49.98Hz Lamp Flux:1742.04x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4767
MFR.: K-LITE	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	1152
L_0~180(75)av	962
L_0~180(85)av	457
L_90~270(65)av	486
L_90~270(75)av	387
L_90~270(85)av	220
L_45(65)av	606
L_45(75)av	448
L_45(85)av	276

Standard: GB/T 29293-2012

K-LITE

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.76V I:0.0541A P:12.236W PF:0.9810 Freq:49.98Hz Lamp Flux:1742.04x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4767
MFR.: K-LITE	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132
5	131	139	147	156	164	172	177	183	185	187	185	183	178	173	165	157	149	141	132
10	129	146	164	184	203	223	238	253	259	265	260	255	241	226	206	187	167	149	132
15	127	151	181	215	248	282	307	329	336	344	337	333	313	289	255	221	186	156	130
20	123	156	198	247	292	330	353	378	385	396	388	385	362	341	304	257	206	163	128
25	118	160	214	275	318	360	377	396	396	407	400	404	390	374	333	290	226	168	124
30	113	162	227	289	333	361	368	382	380	391	385	392	382	379	351	307	242	172	118
35	106	163	235	295	324	342	338	332	313	318	316	341	352	360	344	316	251	174	112
40	98.6	160	232	286	300	298	261	239	214	214	216	245	272	313	319	306	249	172	104
45	89.9	156	225	261	256	221	172	147	124	124	126	150	177	231	270	279	243	168	94.8
50	80.3	148	210	230	188	139	97.9	78.3	71.9	73.3	72.9	79.8	100	144	195	245	227	161	84.7
55	69.8	138	184	175	115	75.1	60.8	57.2	53.6	54.3	54.3	58.8	62.9	76.2	118	183	198	150	73.8
60	58.8	124	154	112	60.4	51.1	44.2	42.0	39.6	40.3	40.1	43.2	45.6	52.6	61.1	115	164	135	62.1
65	47.5	108	107	57.7	40.9	35.8	31.7	30.5	29.0	29.6	29.4	31.4	32.8	36.8	41.8	56.5	111	117	49.9
70	35.9	85.9	57.6	33.7	27.1	24.6	22.2	21.6	20.6	21.0	20.9	22.1	22.9	25.2	27.7	34.1	56.8	92.2	37.4
75	24.6	58.0	25.9	20.0	17.1	15.9	14.6	14.3	13.7	14.0	13.9	14.7	14.9	16.2	17.3	20.2	25.7	59.0	25.2
80	13.7	22.2	12.2	10.7	9.47	8.99	8.30	8.16	7.80	7.96	7.86	8.29	8.42	9.05	9.50	10.6	12.0	19.9	13.6
85	4.44	4.93	4.28	3.94	3.47	3.23	2.85	2.69	2.45	2.45	2.38	2.60	2.71	3.04	3.25	3.68	3.98	4.34	3.52
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.76V I:0.0541A P:12.236W PF:0.9810 Freq:49.98Hz Lamp Flux:1742.04x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4767
MFR.: K-LITE	SUR.:	Shielding Angle:

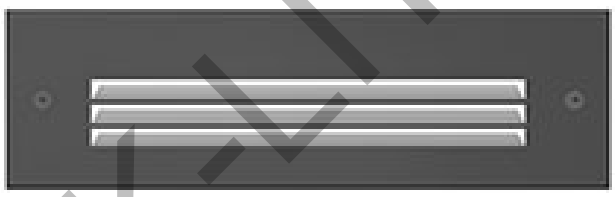
Table--2 UNIT: cd

C(DEG) / γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132		
5	125	118	112	107	103	99.0	97.1	95.1	95.3	94.9	96.8	98.6	102	106	111	117	124		
10	117	105	94.6	86.6	81.2	77.0	74.9	72.8	72.9	72.7	74.6	76.5	80.5	85.7	93.5	103	115		
15	109	92.5	80.5	72.6	67.6	63.9	62.3	60.5	60.8	60.4	62.0	63.5	66.9	71.6	79.2	90.7	106		
20	100	81.3	69.6	62.7	58.7	55.3	53.9	52.1	52.4	51.9	53.6	54.9	58.0	61.8	68.3	79.5	97.6		
25	91.3	71.7	61.3	55.2	51.6	48.2	46.9	45.2	45.5	45.0	46.6	47.8	51.0	54.4	60.2	70.1	88.7		
30	82.1	62.9	54.3	48.5	45.1	42.1	40.9	39.3	39.6	39.2	40.6	41.7	44.6	47.8	53.5	61.6	79.9		
35	72.8	55.6	47.8	42.4	39.4	36.6	35.5	34.2	34.4	34.1	35.3	36.3	38.9	41.8	47.1	54.7	71.0		
40	63.7	48.8	41.6	36.8	34.1	31.7	30.7	29.6	29.7	29.5	30.6	31.5	33.7	36.3	41.1	48.1	62.3		
45	54.5	42.2	35.7	31.5	29.2	27.2	26.3	25.3	25.5	25.3	26.2	27.0	28.9	31.2	35.3	41.6	53.9		
50	46.6	35.7	30.1	26.6	24.6	23.0	22.3	21.4	21.5	21.4	22.2	22.8	24.4	26.3	29.8	35.3	46.0		
55	38.8	29.5	24.8	21.9	20.4	19.0	18.5	17.8	17.9	17.8	18.5	19.0	20.3	21.7	24.6	29.3	38.4		
60	31.3	23.6	19.8	17.6	16.4	15.4	14.9	14.5	14.5	14.5	15.0	15.4	16.4	17.5	19.7	23.4	31.1		
65	24.0	18.0	15.1	13.6	12.8	12.0	11.7	11.3	11.4	11.4	11.8	12.1	12.8	13.5	15.1	18.0	24.1		
70	17.1	12.8	10.9	9.98	9.47	8.99	8.79	8.52	8.62	8.58	8.87	9.05	9.49	9.96	11.0	12.9	17.4		
75	10.9	8.24	7.25	6.78	6.51	6.24	6.12	5.94	6.02	6.00	6.20	6.30	6.56	6.81	7.33	8.39	11.2		
80	5.56	4.47	4.15	4.00	3.86	3.73	3.66	3.57	3.62	3.63	3.74	3.80	3.94	4.05	4.25	4.64	5.93		
85	1.72	1.63	1.58	1.56	1.48	1.44	1.40	1.37	1.39	1.42	1.47	1.53	1.59	1.66	1.71	1.79	1.98		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00		

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:



K-LITE

Light Output Ratio:	21.5%	
Luminaire Power:	12.18 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.85	fine grid method.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

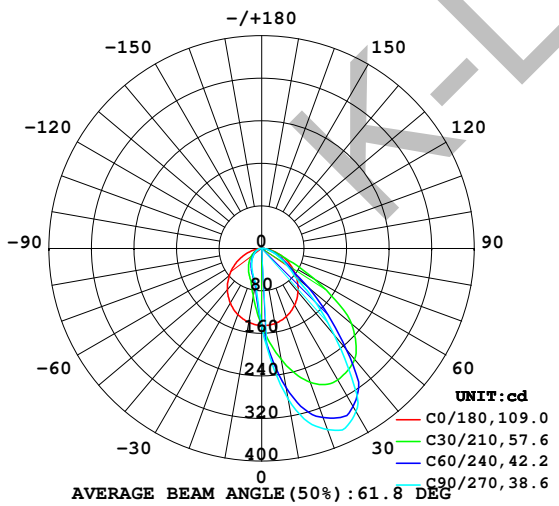
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.76V I:0.0538A P:12.175W PF:0.9811 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4769
MFR.: K-LITE	SUR.:	Shielding Angle:

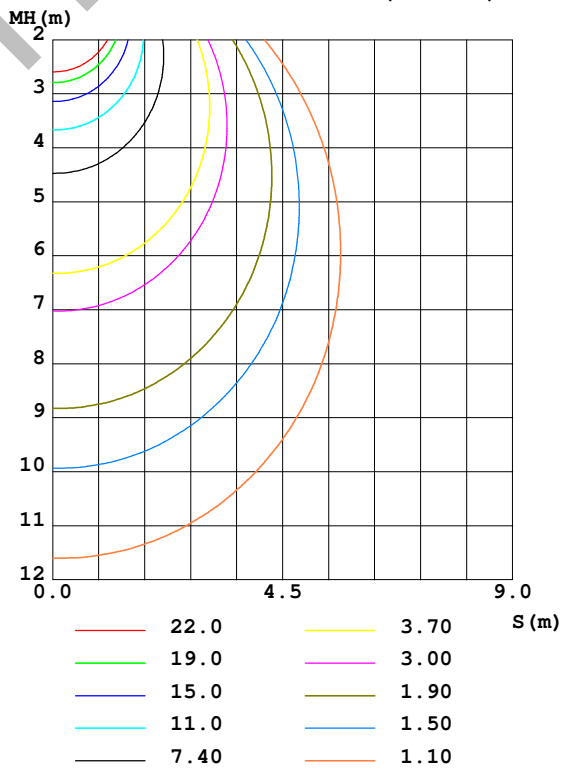
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 36.62 lm/W	
MODEL	KL-2742	Imax(cd)	373.8	S/MH(C0/180)	1.22
NOMINAL POWER(W)	12	LOR(%)	21.5	S/MH(C90/270)	0.28
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	445.87	η UP,DN(C0-180)	0.0,17.6
NOMINAL FLUX(lm)	2073.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,3.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230	η down(%)	21.5	CIBSE SHR MAX	0.85

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):61.8 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	143.6	242.2	286.8	240.4	141.1	78.88	67.23	79.95	0- 10	14.58	14.58	3.27,0.70
20	136.1	313.1	362.4	312.0	132.1	56.22	50.09	57.54	10- 20	48.44	63.02	14.1,3.04
30	123.7	326.2	354.5	326.5	118.6	43.72	38.20	45.02	20- 30	81.76	144.8	32.5,6.98
40	106.5	284.7	211.9	287.4	100.7	33.19	28.74	34.33	30- 40	98.58	243.4	54.6,11.7
50	85.94	163.7	80.95	166.6	79.80	23.91	20.75	24.83	40- 50	85.80	329.2	73.8,15.9
60	62.70	64.67	46.55	65.17	56.77	15.77	13.86	16.45	50- 60	59.67	388.8	87.2,18.8
70	38.50	29.87	24.63	29.53	33.17	8.882	8.056	9.300	60- 70	36.41	425.2	95.4,20.5
80	14.96	10.95	9.864	10.67	11.50	3.434	3.153	3.624	70- 80	17.13	442.4	99.2,21.3
90	0	0.0020	0	0.0004	0	0	0	0	80- 90	3.494	445.9	100,21.5
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

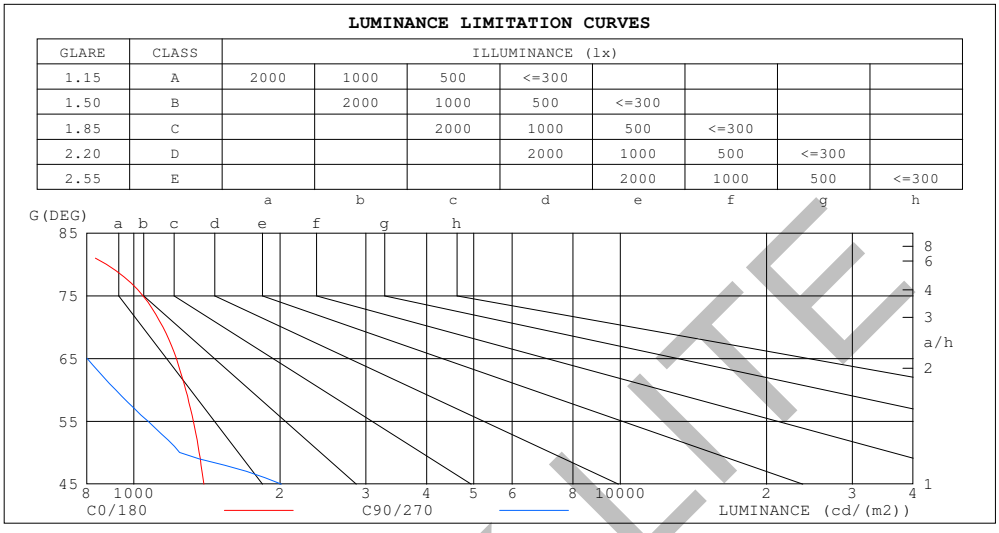
K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.76V I:0.0538A P:12.175W PF:0.9811 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4769
MFR.: K-LITE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	553	439
80	878	560
75	1044	635
70	1148	710
65	1223	802
60	1279	918
55	1326	1069
50	1364	1242
45	1393	2011

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

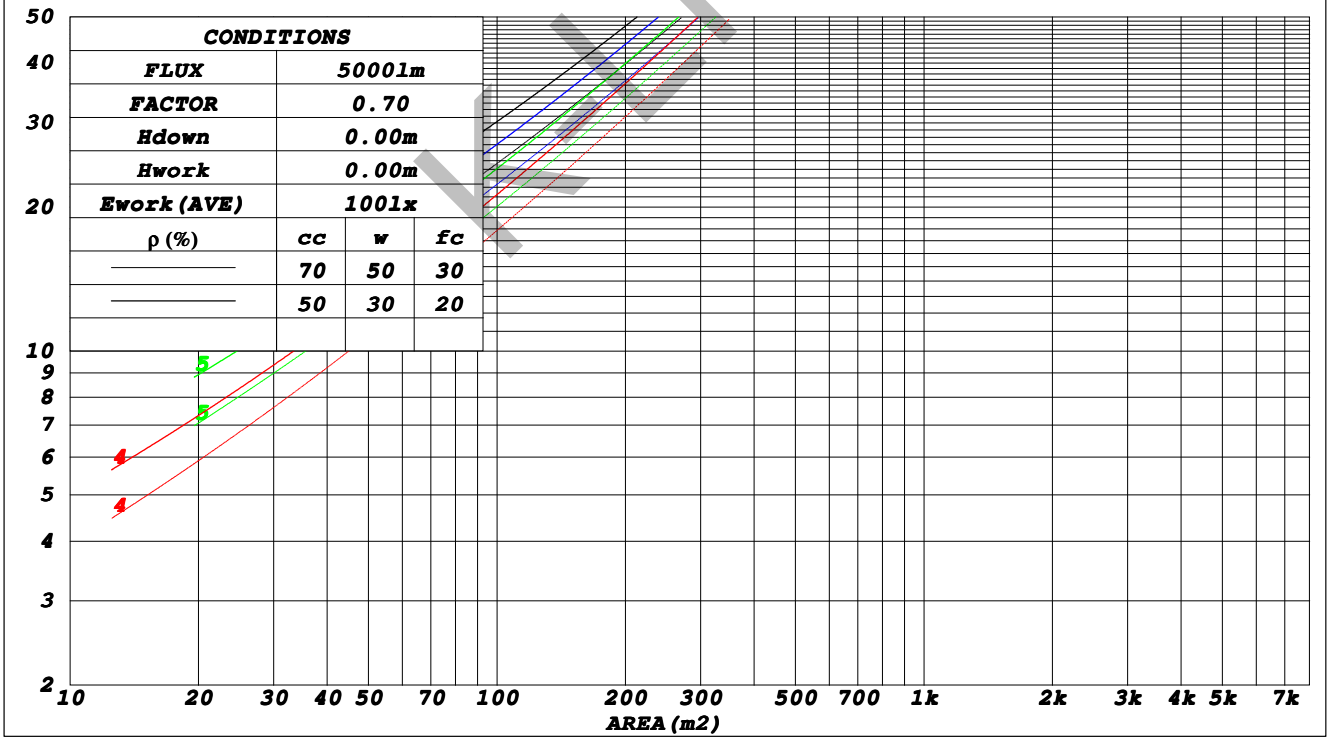
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.76V I:0.0538A P:12.175W PF:0.9811 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4769
MFR.: K-LITE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	.26	.26	.26	.25	.25	.25	.24	.24	.24	.23	.23	.23	.22	.22	.22	.22
1.0	.23	.22	.21	.22	.22	.21	.21	.21	.20	.21	.20	.20	.20	.19	.19	.19
2.0	.20	.19	.18	.20	.19	.18	.19	.18	.17	.18	.18	.17	.18	.17	.16	.16
3.0	.18	.16	.15	.18	.16	.15	.17	.16	.15	.16	.15	.14	.16	.15	.14	.14
4.0	.16	.14	.13	.16	.14	.13	.15	.14	.13	.15	.14	.13	.14	.13	.12	.12
5.0	.14	.13	.11	.14	.13	.11	.14	.12	.11	.13	.12	.11	.13	.12	.11	.10
6.0	.13	.11	.10	.13	.11	.10	.13	.11	.10	.12	.11	.10	.12	.11	.10	.09
7.0	.12	.10	.09	.12	.10	.09	.11	.10	.09	.11	.10	.09	.11	.10	.09	.08
8.0	.11	.09	.08	.11	.09	.08	.10	.09	.08	.10	.09	.08	.10	.09	.08	.07
9.0	.10	.08	.07	.10	.08	.07	.10	.08	.07	.09	.08	.07	.09	.08	.07	.07
10.0	.09	.08	.06	.09	.08	.06	.09	.07	.06	.09	.07	.06	.09	.07	.06	.06

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.76V I:0.0538A P:12.175W PF:0.9811 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4769
MFR.: K-LITE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coeffcients(WEC)												
0.0																
1.0	.058	.033	.010	.056	.032	.010	.053	.031	.010	.051	.029	.009	.048	.028	.009	
2.0	.055	.030	.009	.054	.030	.009	.052	.029	.009	.049	.028	.009	.047	.027	.008	
3.0	.052	.028	.008	.051	.027	.008	.049	.027	.008	.047	.026	.008	.045	.025	.008	
4.0	.049	.025	.007	.048	.025	.007	.046	.024	.007	.044	.024	.007	.043	.023	.007	
5.0	.046	.023	.007	.045	.023	.007	.043	.022	.007	.042	.022	.007	.040	.021	.006	
6.0	.043	.022	.006	.042	.021	.006	.041	.021	.006	.039	.020	.006	.038	.020	.006	
7.0	.040	.020	.006	.040	.020	.006	.038	.019	.006	.037	.019	.006	.036	.019	.005	
8.0	.038	.019	.005	.037	.018	.005	.036	.018	.005	.035	.018	.005	.034	.017	.005	
9.0	.036	.017	.005	.035	.017	.005	.034	.017	.005	.033	.017	.005	.032	.016	.005	
10.0	.034	.016	.004	.033	.016	.004	.032	.016	.004	.031	.016	.004	.030	.015	.004	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.041	.041	.041	.035	.035	.035	.024	.024	.024	.014	.014	.014	.004	.004	.004	
1.0	.038	.034	.030	.033	.029	.025	.022	.020	.018	.013	.011	.010	.004	.004	.003	
2.0	.036	.028	.022	.031	.024	.019	.021	.017	.013	.012	.010	.008	.004	.003	.003	
3.0	.034	.025	.017	.029	.021	.015	.020	.015	.010	.012	.009	.006	.004	.003	.002	
4.0	.033	.022	.013	.028	.019	.011	.019	.013	.008	.011	.008	.005	.004	.002	.002	
5.0	.031	.019	.011	.027	.017	.009	.018	.012	.007	.011	.007	.004	.003	.002	.001	
6.0	.030	.018	.009	.025	.015	.008	.018	.011	.005	.010	.006	.003	.003	.002	.001	
7.0	.028	.016	.007	.024	.014	.007	.017	.010	.005	.010	.006	.003	.003	.002	.001	
8.0	.027	.015	.006	.023	.013	.006	.016	.009	.004	.009	.005	.002	.003	.002	.001	
9.0	.026	.014	.006	.022	.012	.005	.015	.008	.003	.009	.005	.002	.003	.002	.001	
10.0	.025	.013	.005	.021	.011	.004	.015	.008	.003	.009	.005	.002	.003	.002	.001	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

K-LITE

UGR(Unified Glare Rating) Table

Test:U:230.76V I:0.0538A P:12.175W PF:0.9811 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4769
MFR.: K-LITE	SUR.:	Shielding Angle:

ceiling/cavity		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H	y = 2H	15.9	17.3	16.1	17.5	17.7	12.4	13.8	12.6	14.0	14.2
	3H	17.1	18.4	17.4	18.6	18.9	12.7	14.0	13.0	14.2	14.5
	4H	17.6	18.8	17.9	19.0	19.3	12.9	14.1	13.2	14.4	14.6
	6H	17.8	18.9	18.1	19.2	19.5	13.0	14.1	13.3	14.4	14.7
	8H	17.8	18.9	18.1	19.2	19.4	13.0	14.1	13.4	14.4	14.7
	12H	17.7	18.8	18.1	19.1	19.4	13.0	14.1	13.4	14.4	14.7
4H	2H	15.8	17.0	16.1	17.3	17.5	12.9	14.1	13.2	14.4	14.6
	3H	17.1	18.2	17.5	18.5	18.8	13.4	14.4	13.7	14.7	15.0
	4H	17.7	18.7	18.1	19.0	19.3	13.6	14.6	14.0	14.9	15.2
	6H	18.0	18.8	18.4	19.2	19.5	13.8	14.6	14.2	15.0	15.3
	8H	18.0	18.8	18.4	19.2	19.6	13.8	14.6	14.2	15.0	15.4
	12H	18.0	18.7	18.4	19.1	19.5	13.9	14.6	14.3	15.0	15.4
8H	4H	17.6	18.4	18.0	18.8	19.2	13.7	14.5	14.2	14.9	15.3
	6H	18.0	18.6	18.4	19.0	19.4	14.0	14.7	14.5	15.1	15.5
	8H	18.0	18.6	18.5	19.0	19.5	14.1	14.7	14.6	15.1	15.6
	12H	18.1	18.6	18.5	19.0	19.5	14.2	14.7	14.7	15.1	15.6
12H	4H	17.6	18.3	18.0	18.7	19.1	13.7	14.5	14.2	14.8	15.2
	6H	17.9	18.5	18.4	18.9	19.4	14.0	14.6	14.5	15.0	15.5
	8H	18.0	18.5	18.5	19.0	19.4	14.2	14.7	14.6	15.1	15.6

Variations with the observer position at spacings:		
S = 1.0H	+ 1.3 / - 1.7	+ 1.1 / - 1.5
1.5H	+ 1.1 / - 3.4	+ 1.1 / - 1.6
2.0H	+ 1.4 / - 3.6	+ 1.6 / - 1.3

K-LITE

CIE Pub.117, 2074 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.5)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.76V I:0.0538A P:12.175W PF:0.9811 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4769
MFR.: K-LITE	SUR.:	Shielding Angle:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	14	11	10	13	11	10	13	11	10	9
0.80	16	14	12	16	13	12	15	13	12	11
1.00	18	15	14	17	15	14	17	16	14	12
1.25	19	17	16	19	17	16	18	17	15	14
1.50	20	18	17	20	18	17	19	18	16	15
2.00	21	20	18	21	19	18	20	19	18	16
2.50	22	21	19	22	20	19	21	20	19	17
3.00	23	21	20	22	21	20	21	20	20	18
4.00	23	22	21	23	22	21	22	21	21	19
5.00	24	23	22	23	22	22	22	22	21	19
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

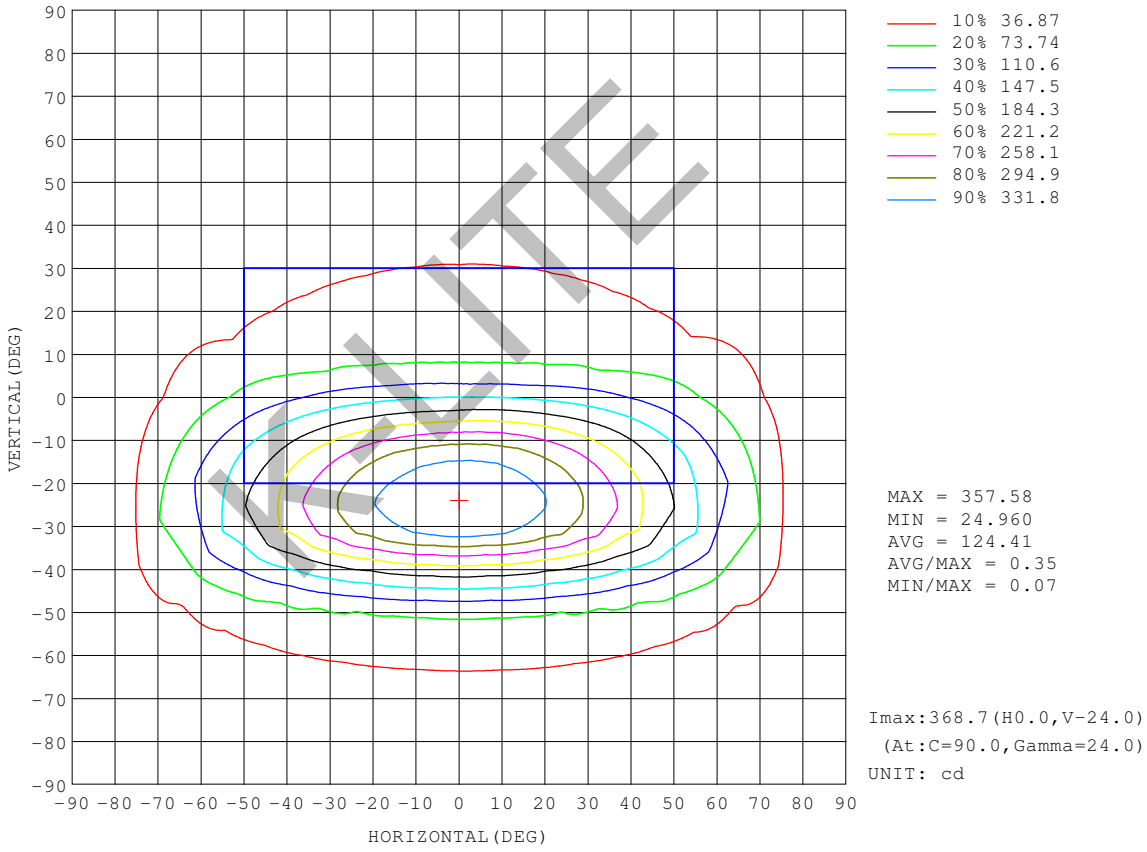
K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.76V I:0.0538A P:12.175W PF:0.9811 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: SUDO – GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4769
MFR.: K-LITE	SUR.:	Shielding Angle:

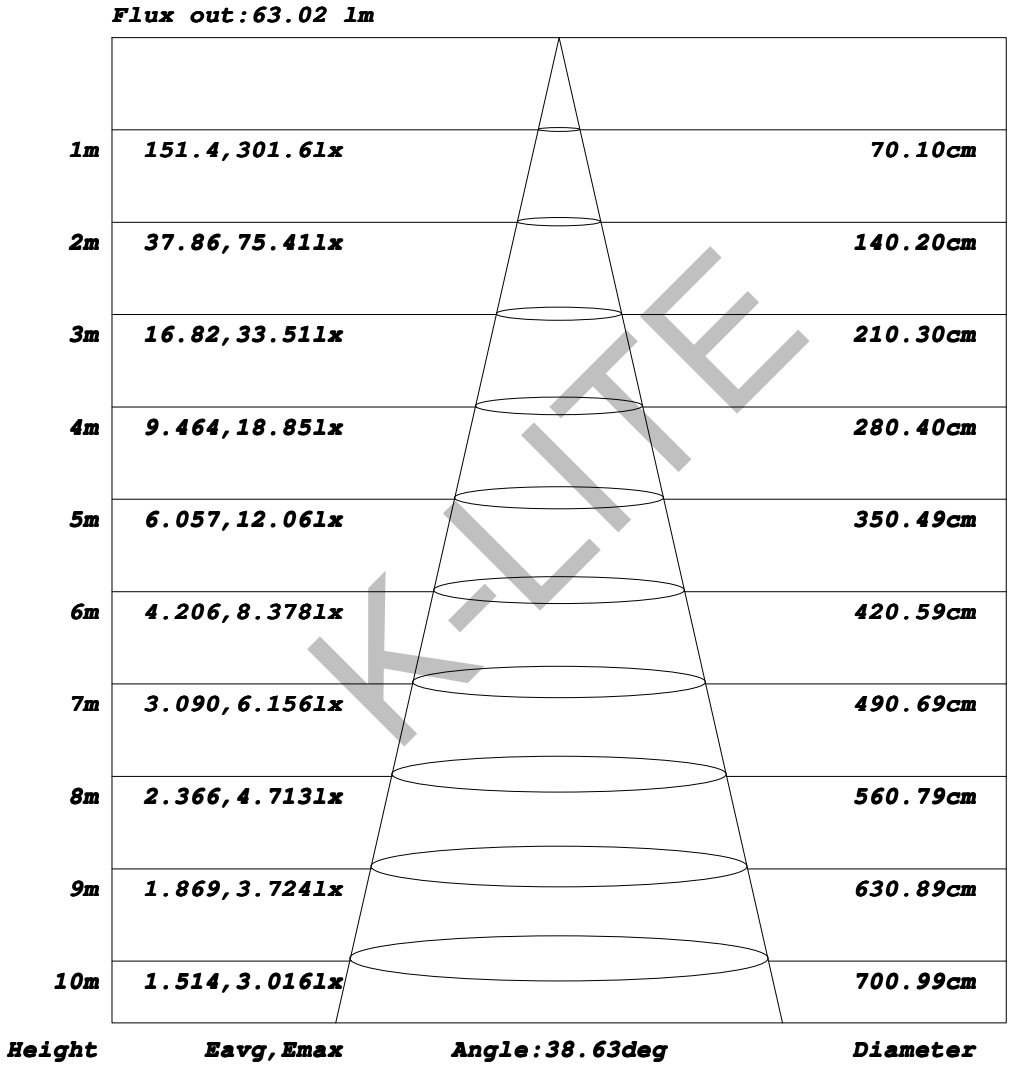


C Range: 0 – 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 – 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.76V I:0.0538A P:12.175W PF:0.9811 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4769
MFR.: K-LITE	SUR.:	Shielding Angle:



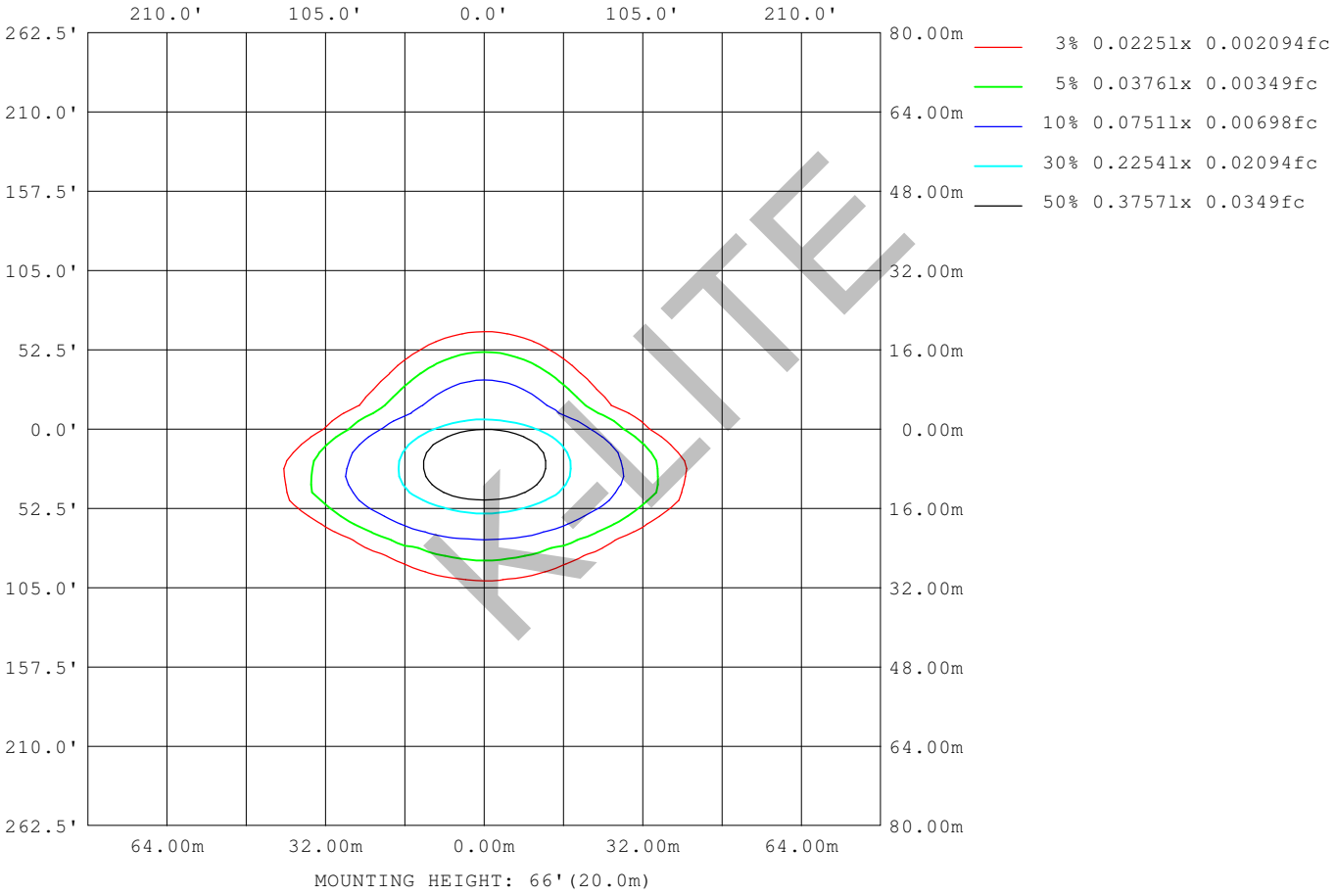
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.76V I:0.0538A P:12.175W PF:0.9811 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: SUDO – GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4769
MFR.: K-LITE	SUR.:	Shielding Angle:



C Range: 0 – 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 – 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LED Avg.L Report

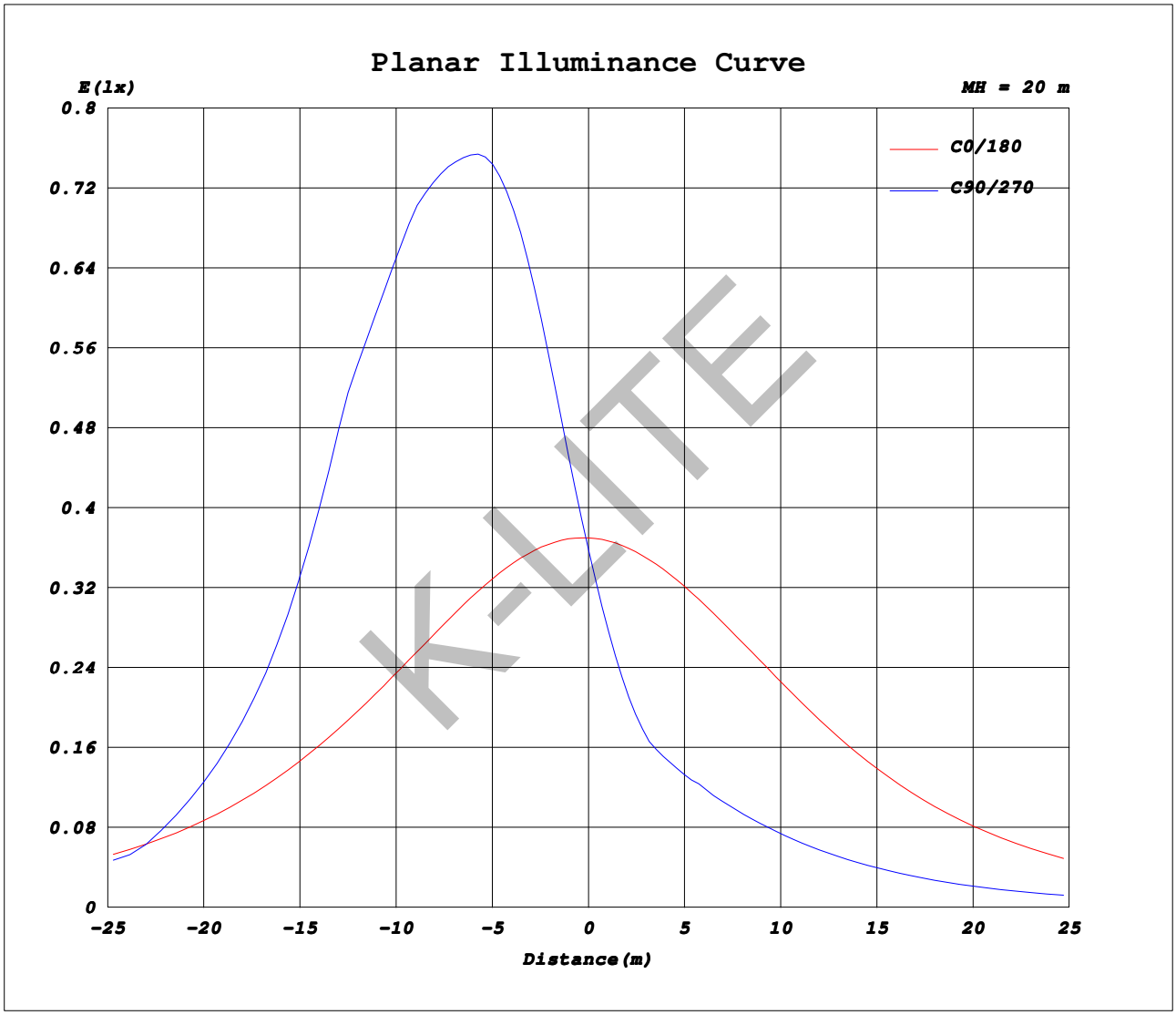
Test:U:230.76V I:0.0538A P:12.175W PF:0.9811 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4769
MFR.: K-LITE	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	1131
L_0~180(75)av	936
L_0~180(85)av	448
L_90~270(65)av	535
L_90~270(75)av	428
L_90~270(85)av	278
L_45(65)av	655
L_45(75)av	484
L_45(85)av	315

Standard: GB/T 29293-2012

K-LITE

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.76V I:0.0538A P:12.175W PF:0.9811 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4769
MFR.: K-LITE	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145
5	145	156	167	178	187	197	203	210	212	214	211	209	202	196	186	177	166	155	144
10	144	166	188	212	232	252	265	278	281	287	280	277	264	250	230	210	186	163	141
15	141	173	208	243	272	299	314	329	331	338	330	328	312	297	270	241	205	170	137
20	136	179	224	268	300	327	338	353	354	362	354	353	337	326	299	265	221	175	132
25	131	182	236	282	311	337	350	367	365	373	364	366	349	336	311	281	233	178	126
30	124	183	241	286	313	340	343	353	347	355	347	353	343	340	313	286	239	178	119
35	116	181	239	281	307	320	319	313	291	294	291	314	319	322	309	281	238	176	110
40	107	175	231	272	284	285	248	230	210	212	210	231	250	289	286	272	230	170	101
45	96.6	166	218	250	248	212	176	160	144	144	144	160	177	214	252	252	217	162	90.6
50	85.9	154	203	221	181	146	116	96.5	80.3	80.9	80.1	97.3	116	148	185	223	202	151	79.8
55	74.6	141	180	169	122	89.9	69.1	65.9	61.4	62.2	61.2	65.7	68.7	91.2	124	173	181	138	68.5
60	62.7	124	151	113	71.0	58.2	51.4	49.0	46.0	46.6	45.8	48.7	51.0	58.0	72.3	115	152	122	56.8
65	50.7	107	106	65.1	46.8	41.4	37.1	35.8	34.0	34.4	33.7	35.6	36.7	41.0	46.5	66.5	109	104	44.9
70	38.5	86.0	60.0	38.1	31.2	28.5	26.1	25.5	24.3	24.6	24.1	25.2	25.7	28.2	30.9	37.8	61.5	85.3	33.2
75	26.5	58.1	28.9	22.9	19.8	18.6	17.3	17.1	16.4	16.7	16.2	16.9	17.0	18.3	19.4	22.5	28.7	59.5	21.9
80	15.0	22.5	13.9	12.3	11.1	10.8	10.2	10.1	9.71	9.86	9.59	9.95	9.93	10.5	10.8	11.9	13.4	23.2	11.5
85	4.72	5.37	5.01	4.77	4.44	4.32	4.07	4.03	3.83	3.88	3.77	3.92	3.91	4.12	4.20	4.50	4.62	4.96	3.09
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.76V I:0.0538A P:12.175W PF:0.9811 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:4769
MFR.: K-LITE	SUR.:	Shielding Angle:

Table--2 UNIT: cd

γ (DEG) \ C(DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145	145		
5	134	125	116	110	104	99.8	96.6	94.7	94.5	94.7	97.0	99.9	104	110	117	126	135		
10	122	106	92.3	82.4	75.4	70.4	68.3	66.8	67.2	66.9	68.8	70.9	76.3	83.6	93.8	108	124		
15	110	88.9	73.8	65.5	62.2	59.5	58.4	57.0	57.5	57.2	59.0	60.2	63.3	66.9	75.8	91.2	113		
20	98.0	74.6	62.6	57.7	54.7	52.0	51.0	49.6	50.1	49.8	51.6	52.7	55.8	59.2	64.5	77.3	102		
25	86.5	63.2	55.9	51.1	48.2	45.6	44.6	43.3	43.7	43.5	45.2	46.3	49.4	52.6	57.7	65.8	90.5		
30	75.3	56.4	49.8	45.1	42.4	39.9	39.0	37.8	38.2	38.0	39.5	40.6	43.4	46.6	51.7	58.8	79.6		
35	65.0	50.2	43.9	39.5	37.0	34.8	34.0	32.9	33.2	33.1	34.5	35.5	38.0	40.9	45.8	52.6	69.3		
40	55.2	44.3	38.3	34.3	32.0	30.1	29.4	28.5	28.7	28.6	29.8	30.7	33.0	35.7	40.0	46.5	59.5		
45	48.1	38.4	32.9	29.4	27.4	25.8	25.1	24.4	24.6	24.5	25.5	26.3	28.3	30.6	34.5	40.5	51.2		
50	41.4	32.6	27.8	24.7	23.1	21.7	21.2	20.6	20.7	20.7	21.5	22.2	23.8	25.8	29.2	34.6	44.3		
55	34.8	27.0	22.9	20.4	19.0	18.0	17.5	17.0	17.2	17.1	17.8	18.4	19.7	21.3	24.1	28.8	37.4		
60	28.2	21.6	18.2	16.3	15.3	14.5	14.1	13.7	13.9	13.8	14.4	14.8	15.8	17.1	19.3	23.1	30.6		
65	21.8	16.5	13.9	12.5	11.8	11.2	11.0	10.7	10.8	10.8	11.2	11.5	12.2	13.1	14.8	17.8	23.8		
70	15.6	11.7	9.98	9.09	8.67	8.31	8.18	7.97	8.06	8.01	8.31	8.51	9.01	9.59	10.6	12.7	17.3		
75	9.95	7.49	6.55	6.11	5.88	5.66	5.57	5.44	5.50	5.49	5.68	5.81	6.12	6.45	7.01	8.16	11.1		
80	5.03	4.02	3.68	3.50	3.37	3.26	3.20	3.12	3.15	3.15	3.27	3.36	3.53	3.71	3.95	4.39	5.76		
85	1.56	1.40	1.30	1.21	1.12	1.06	1.00	0.97	0.96	0.99	1.04	1.12	1.22	1.34	1.45	1.57	1.79		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:12 August 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:



K-LITE

Light Output Ratio:	13.0%	
Luminaire Power:	6.682 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.85	fine grid method.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

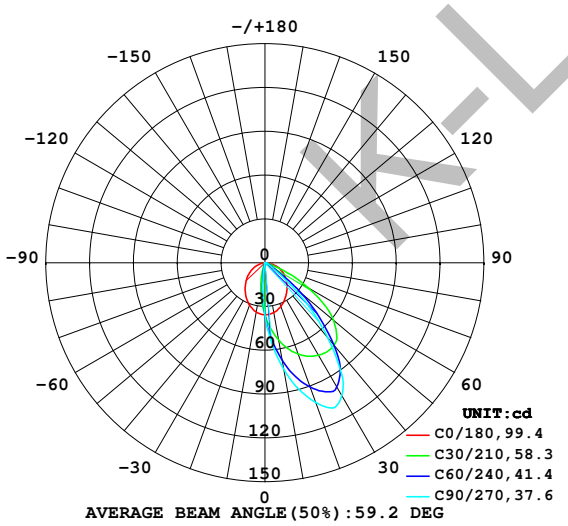
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.31V I:0.0646A P:6.6820W PF:0.9844 Freq:49.98Hz Lamp Flux:802.9x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:0.8Kg
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:0658
MFR.: K-LITE	SUR.:	Shielding Angle:

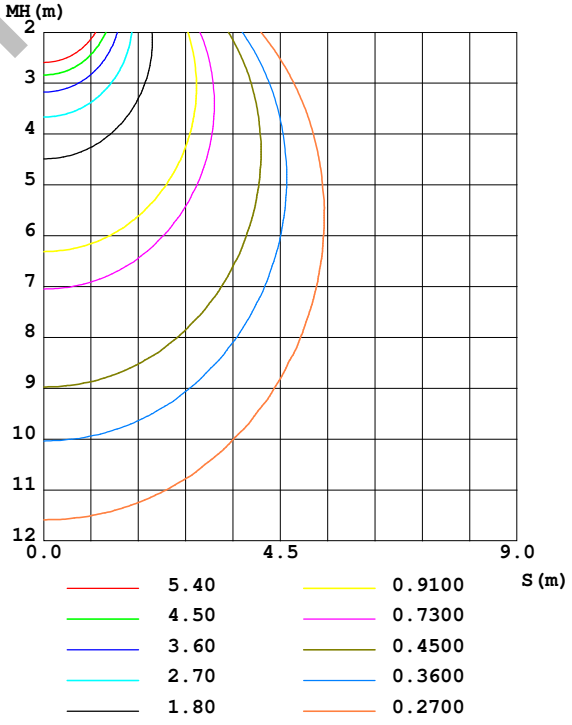
DATA OF LAMP		PHOTOMETRIC DATA			Eff: 15.62 lm/W
MODEL	KL-2755	Imax(cd)	110.0	S/MH(C0/180)	1.11
NOMINAL POWER(W)	6	LOR(%)	13.0	S/MH(C90/270)	0.18
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	104.34	η UP,DN(C0-180)	0.0,12.2
NOMINAL FLUX(lm)	802.9	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,0.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230	η down(%)	13.0	CIBSE SHR MAX	0.85

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):59.2 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	34.78	61.45	73.66	62.22	34.43	11.83	5.608	12.26	0- 10	3.467	3.467	3.32,0.43
20	31.89	80.19	101.6	82.96	31.01	1.649	1.067	1.672	10- 20	11.11	14.58	14,1.82
30	28.02	89.32	105.2	93.97	26.31	0.9257	0.6301	0.9218	20- 30	19.81	34.39	33,4.28
40	23.61	79.47	67.00	86.29	21.08	0.5884	0.4219	0.5830	30- 40	24.79	59.18	56.7,7.37
50	19.17	48.15	20.78	54.11	16.01	0.3830	0.2878	0.3784	40- 50	21.61	80.79	77.4,10.1
60	14.79	14.31	5.106	17.19	11.13	0.2404	0.1898	0.2379	50- 60	13.29	94.08	90.2,11.7
70	9.837	3.714	1.957	4.126	6.215	0.1377	0.1145	0.1378	60- 70	6.982	101.1	96.9,12.6
80	4.053	1.002	0.6278	1.068	1.628	0.0637	0.0532	0.0650	70- 80	2.793	103.9	99.5,12.9
90	0.0401	0.1330	0.1103	0.1257	0.0111	0.0017	0	0.0017	80- 90	0.4795	104.3	100,13
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

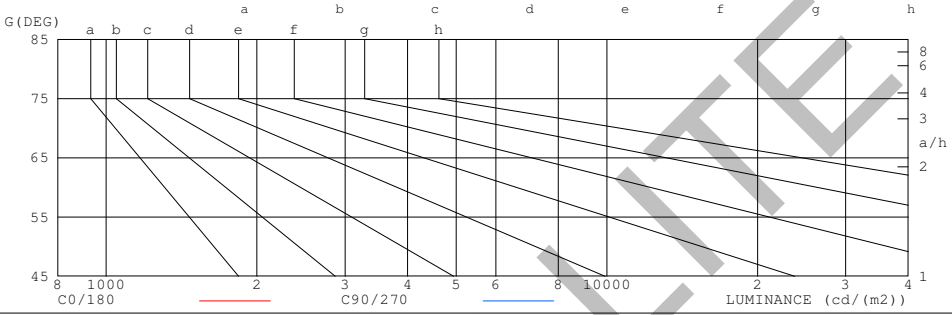
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.31V I:0.0646A P:6.6820W PF:0.9844 Freq:49.98Hz Lamp Flux:802.9x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:0.8Kg
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:0658
MFR.: K-LITE	SUR.:	Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	165	37
80	237	36
75	275	43
70	292	56
65	300	76
60	300	101
55	301	132
50	303	319
45	307	607

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:

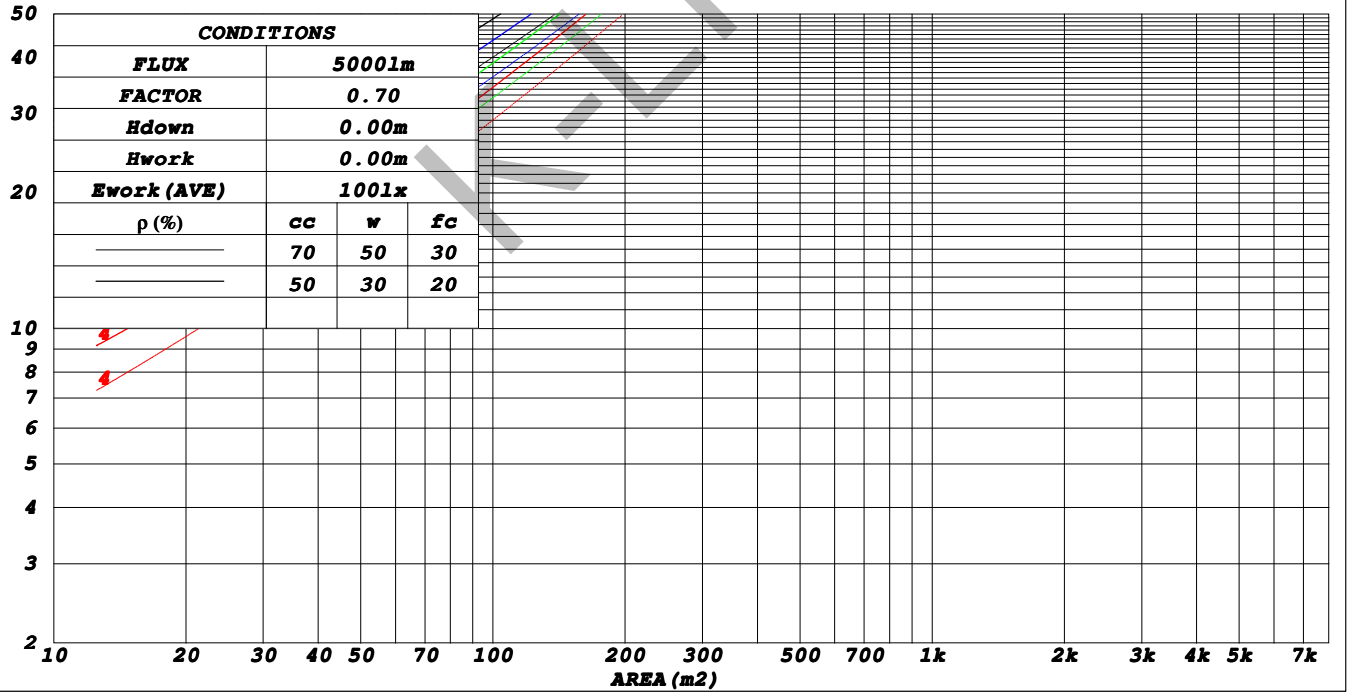
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.31V I:0.0646A P:6.6820W PF:0.9844 Freq:49.98Hz Lamp Flux:802.9x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:0.8Kg
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:0658
MFR.: K-LITE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	.15	.15	.15	.15	.15	.15	.14	.14	.14	.14	.14	.14	.13	.13	.13	.13
1.0	.14	.13	.13	.14	.13	.13	.13	.13	.12	.13	.12	.12	.12	.12	.12	.11
2.0	.12	.12	.11	.12	.11	.11	.12	.11	.11	.11	.11	.10	.11	.10	.10	.10
3.0	.11	.10	.09	.11	.10	.09	.10	.10	.09	.10	.09	.09	.10	.09	.09	.09
4.0	.10	.09	.08	.10	.09	.08	.09	.09	.08	.09	.08	.08	.09	.08	.08	.07
5.0	.09	.08	.07	.09	.08	.07	.08	.08	.07	.08	.07	.07	.08	.07	.07	.07
6.0	.08	.07	.06	.08	.07	.06	.08	.07	.06	.07	.07	.06	.07	.07	.06	.06
7.0	.07	.06	.06	.07	.06	.05	.07	.06	.05	.07	.06	.05	.07	.06	.05	.05
8.0	.07	.06	.05	.07	.06	.05	.06	.06	.05	.06	.05	.05	.06	.05	.05	.05
9.0	.06	.05	.04	.06	.05	.04	.06	.05	.04	.06	.05	.04	.06	.05	.04	.04
10.0	.06	.05	.04	.06	.05	.04	.05	.05	.04	.05	.05	.04	.05	.05	.04	.04

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.31V I:0.0646A P:6.6820W PF:0.9844 Freq:49.98Hz Lamp Flux:802.9x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:0.8Kg
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:0658
MFR.: K-LITE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.033	.019	.006	.032	.018	.006	.031	.018	.006	.029	.017	.005	.028	.016	.005	
2.0	.032	.018	.005	.031	.017	.005	.030	.017	.005	.029	.016	.005	.027	.015	.005	
3.0	.031	.016	.005	.030	.016	.005	.029	.015	.005	.027	.015	.005	.026	.015	.005	
4.0	.029	.015	.004	.028	.015	.004	.027	.014	.004	.026	.014	.004	.025	.014	.004	
5.0	.027	.014	.004	.027	.014	.004	.026	.013	.004	.025	.013	.004	.024	.013	.004	
6.0	.025	.013	.004	.025	.013	.004	.024	.012	.004	.023	.012	.004	.022	.012	.004	
7.0	.024	.012	.003	.024	.012	.003	.023	.011	.003	.022	.011	.003	.021	.011	.003	
8.0	.023	.011	.003	.022	.011	.003	.022	.011	.003	.021	.011	.003	.020	.010	.003	
9.0	.021	.010	.003	.021	.010	.003	.020	.010	.003	.020	.010	.003	.019	.010	.003	
10.0	.020	.010	.003	.020	.010	.003	.019	.009	.003	.019	.009	.003	.018	.009	.003	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.025	.025	.025	.021	.021	.021	.014	.014	.014	.008	.008	.008	.003	.003	.003	
1.0	.023	.020	.018	.020	.017	.016	.013	.012	.011	.008	.007	.006	.002	.002	.002	
2.0	.022	.017	.013	.019	.015	.012	.013	.010	.008	.007	.006	.005	.002	.002	.002	
3.0	.021	.015	.010	.018	.013	.009	.012	.009	.006	.007	.005	.004	.002	.002	.001	
4.0	.019	.013	.008	.017	.011	.007	.012	.008	.005	.007	.005	.003	.002	.001	.001	
5.0	.019	.012	.007	.016	.010	.006	.011	.007	.004	.006	.004	.002	.002	.001	.001	
6.0	.018	.011	.005	.015	.009	.005	.010	.006	.003	.006	.004	.002	.002	.001	.001	
7.0	.017	.010	.005	.015	.008	.004	.010	.006	.003	.006	.003	.002	.002	.001	.001	
8.0	.016	.009	.004	.014	.008	.003	.010	.005	.002	.006	.003	.001	.002	.001	.000	
9.0	.015	.008	.003	.013	.007	.003	.009	.005	.002	.005	.003	.001	.002	.001	.000	
10.0	.015	.008	.003	.013	.007	.003	.009	.005	.002	.005	.003	.001	.002	.001	.000	

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.31V I:0.0646A P:6.6820W PF:0.9844 Freq:49.98Hz Lamp Flux:802.9x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:0.8Kg
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:0658
MFR.: K-LITE	SUR.:	Shielding Angle:

ceiling/cavity	*0.7*	*0.7*	*0.5*	*0.5*	*0.3*	*0.7*	*0.7*	*0.5*	*0.5*	*0.3*
walls	*0.5*	*0.3*	*0.5*	*0.3*	*0.3*	*0.5*	*0.3*	*0.5*	*0.3*	*0.3*
working plane	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*
Room dimensions	*Viewed crosswise*					*Viewed endwise*				
x = 2H y = 2H	*15.3*	*16.7*	*15.6*	*16.9*	*17.1*	*11.2*	*12.6*	*11.5*	*12.8*	*13.0*
3H	*16.7*	*18.0*	*17.0*	*18.2*	*18.4*	*11.1*	*12.4*	*11.4*	*12.6*	*12.8*
4H	*17.3*	*18.5*	*17.6*	*18.7*	*19.0*	*11.0*	*12.2*	*11.3*	*12.5*	*12.7*
6H	*17.6*	*18.7*	*17.9*	*18.9*	*19.2*	*10.9*	*12.1*	*11.3*	*12.3*	*12.6*
8H	*17.6*	*18.6*	*17.9*	*18.9*	*19.2*	*10.9*	*12.0*	*11.2*	*12.2*	*12.5*
12H	*17.5*	*18.6*	*17.9*	*18.9*	*19.2*	*10.9*	*11.9*	*11.2*	*12.2*	*12.5*
4H 2H	*15.2*	*16.4*	*15.5*	*16.6*	*16.9*	*11.7*	*12.9*	*12.0*	*13.1*	*13.4*
3H	*16.7*	*17.7*	*17.0*	*18.0*	*18.3*	*11.6*	*12.6*	*11.9*	*12.9*	*13.2*
4H	*17.3*	*18.2*	*17.6*	*18.5*	*18.8*	*11.5*	*12.5*	*11.9*	*12.8*	*13.1*
6H	*17.7*	*18.5*	*18.0*	*18.8*	*19.2*	*11.5*	*12.3*	*11.8*	*12.6*	*13.0*
8H	*17.7*	*18.5*	*18.1*	*18.8*	*19.2*	*11.4*	*12.2*	*11.8*	*12.5*	*12.9*
12H	*17.7*	*18.4*	*18.1*	*18.8*	*19.2*	*11.4*	*12.1*	*11.8*	*12.5*	*12.9*
8H 4H	*17.2*	*17.9*	*17.6*	*18.3*	*18.7*	*11.6*	*12.3*	*12.0*	*12.7*	*13.1*
6H	*17.5*	*18.2*	*18.0*	*18.6*	*19.0*	*11.5*	*12.1*	*11.9*	*12.5*	*13.0*
8H	*17.6*	*18.2*	*18.1*	*18.6*	*19.0*	*11.5*	*12.0*	*11.9*	*12.5*	*12.9*
12H	*17.6*	*18.1*	*18.1*	*18.6*	*19.0*	*11.5*	*11.9*	*11.9*	*12.4*	*12.8*
12H 4H	*17.1*	*17.8*	*17.5*	*18.2*	*18.6*	*11.5*	*12.2*	*12.0*	*12.6*	*13.0*
6H	*17.5*	*18.1*	*18.0*	*18.5*	*18.9*	*11.5*	*12.0*	*11.9*	*12.5*	*12.9*
8H	*17.6*	*18.1*	*18.1*	*18.5*	*19.0*	*11.5*	*11.9*	*11.9*	*12.4*	*12.9*
Variations with the observer position at spacings:										
S = 1.0H	*+ 1.3 / - 1.7*					*+ 2.2 / - 6.0*				
1.5H	*+ 1.6 / - 5.0*					*+ 1.8 / - 4.3*				
2.0H	*+ 1.5 / - 5.2*					*+ 3.9 / - 5.4*				

CIE Pub.117, 802.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.8)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:

K-LITE

UTILIZATION FACTORS TABLE

Test:U:230.31V I:0.0646A P:6.6820W PF:0.9844 Freq:49.98Hz Lamp Flux:802.9x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:0.8Kg
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:0658
MFR.: K-LITE	SUR.:	Shielding Angle:

REFLECTANCE										
Ceiling	*0.8*	*0.8*	*0.8*	*0.7*	*0.7*	*0.7*	*0.5*	*0.5*	*0.5*	*0*
Walls	*0.7*	*0.5*	*0.3*	*0.7*	*0.5*	*0.3*	*0.7*	*0.5*	*0.3*	*0*
Working plane	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0.2*	*0*
ROOM INDEX	*UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5*									
k = 0.60	*8*	*7*	*6*	*8*	*7*	*6*	*8*	*7*	*6*	*5*
0.80	*10*	*8*	*8*	*10*	*8*	*8*	*9*	*8*	*7*	*7*
1.00	*11*	*10*	*9*	*11*	*9*	*9*	*10*	*10*	*9*	*8*
1.25	*12*	*10*	*10*	*11*	*10*	*10*	*11*	*10*	*10*	*9*
1.50	*12*	*11*	*10*	*12*	*11*	*10*	*12*	*11*	*10*	*9*
2.00	*13*	*12*	*11*	*13*	*12*	*11*	*12*	*12*	*11*	*10*
2.50	*13*	*13*	*12*	*13*	*12*	*12*	*13*	*12*	*12*	*11*
3.00	*14*	*13*	*12*	*13*	*13*	*12*	*13*	*12*	*12*	*11*
4.00	*14*	*14*	*13*	*14*	*13*	*13*	*13*	*13*	*13*	*11*
5.00	*14*	*14*	*13*	*14*	*14*	*13*	*14*	*13*	*13*	*12*
ROOM INDEX	*UF(total)*									*Direct*
According to DIN EN 13032-2 2004				*Suspended*					*SHRNOM = 1.25*	

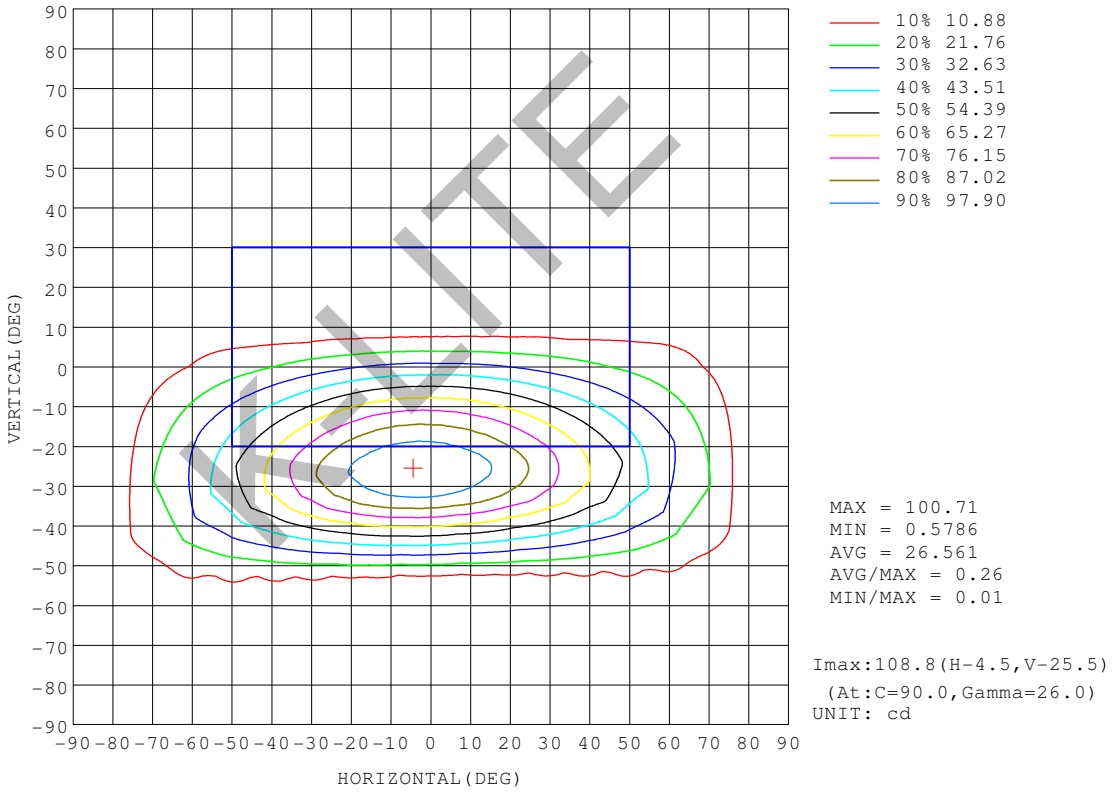
K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.31V I:0.0646A P:6.6820W PF:0.9844 Freq:49.98Hz Lamp Flux:802.9x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:0.8Kg
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:0658
MFR.: K-LITE	SUR.:	Shielding Angle:



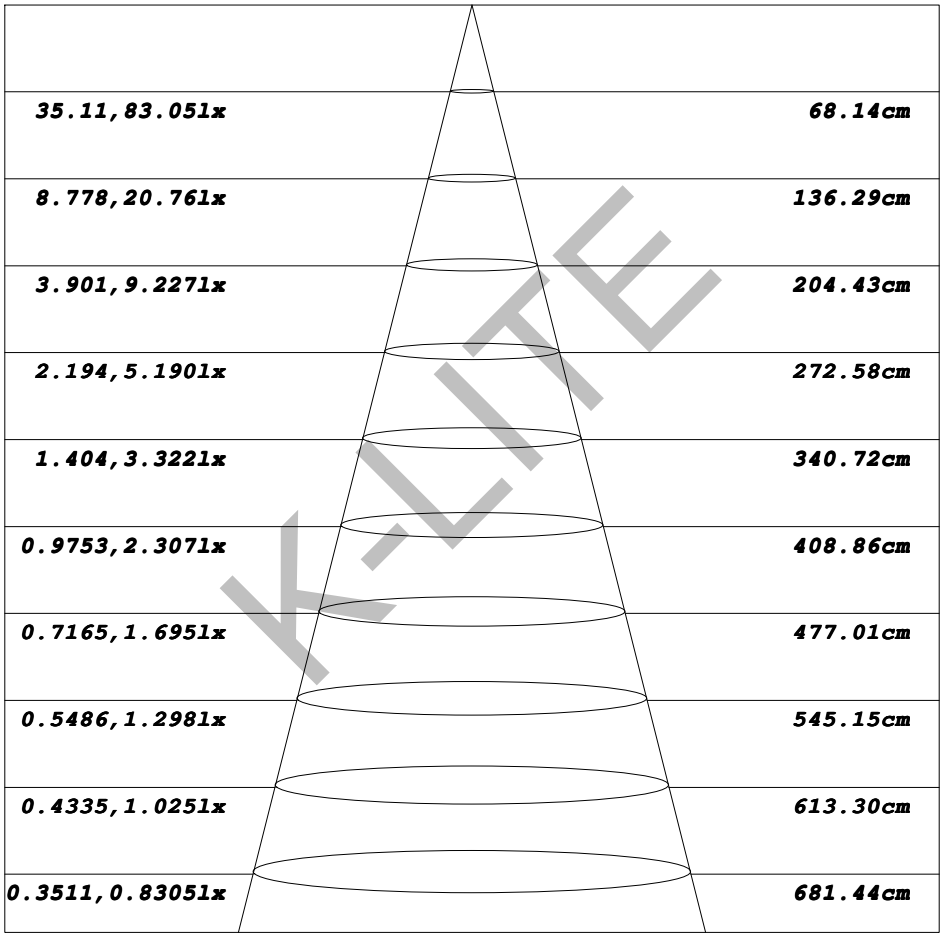
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.31V I:0.0646A P:6.6820W PF:0.9844 Freq:49.98Hz Lamp Flux:802.9x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:0.8Kg
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:0658
MFR.: K-LITE	SUR.:	Shielding Angle:

Flux out:13.08 lm



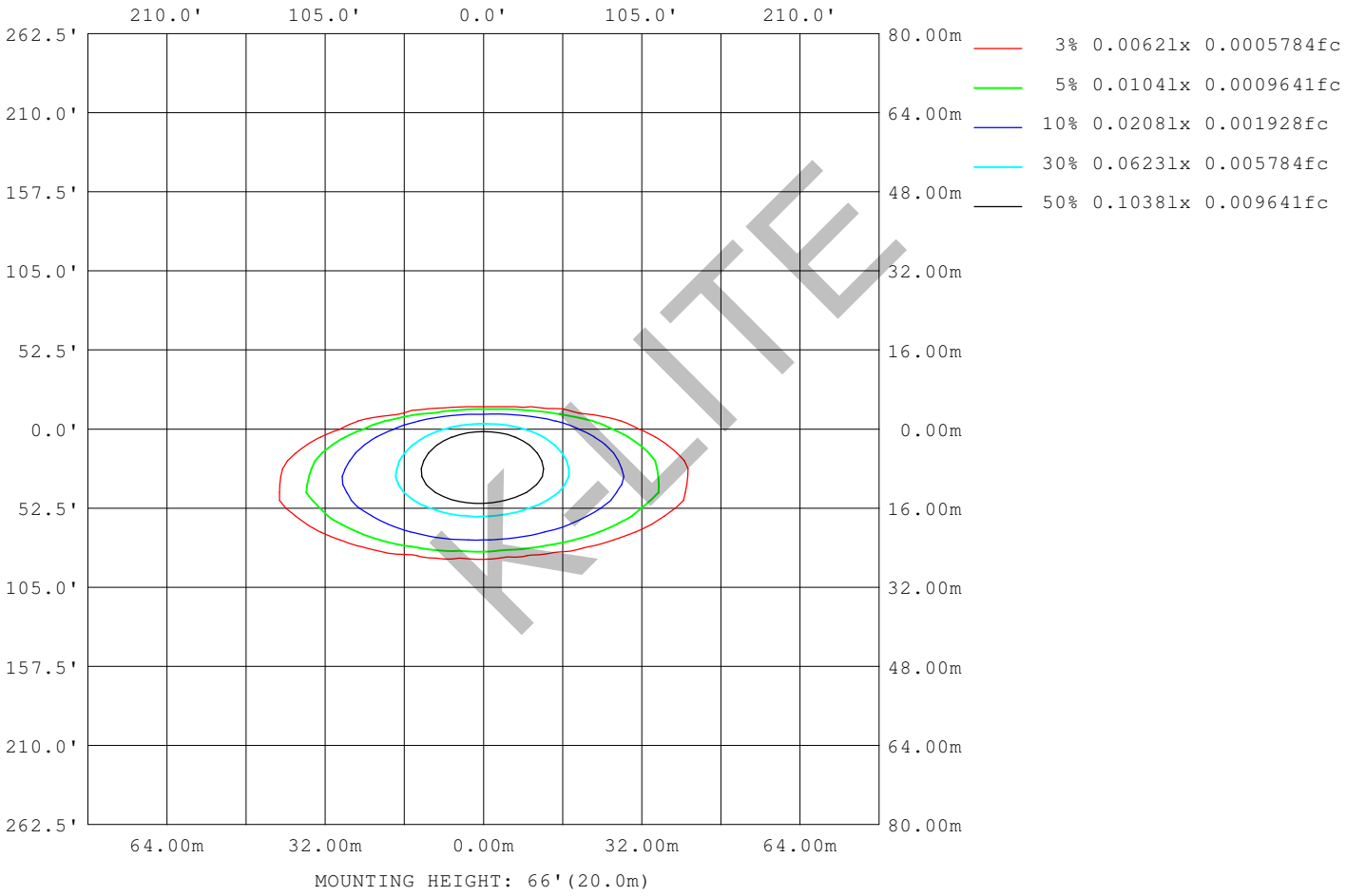
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.31V I:0.0646A P:6.6820W PF:0.9844 Freq:49.98Hz Lamp Flux:802.9x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:0.8Kg
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:0658
MFR.: K-LITE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:

LED Avg.L Report

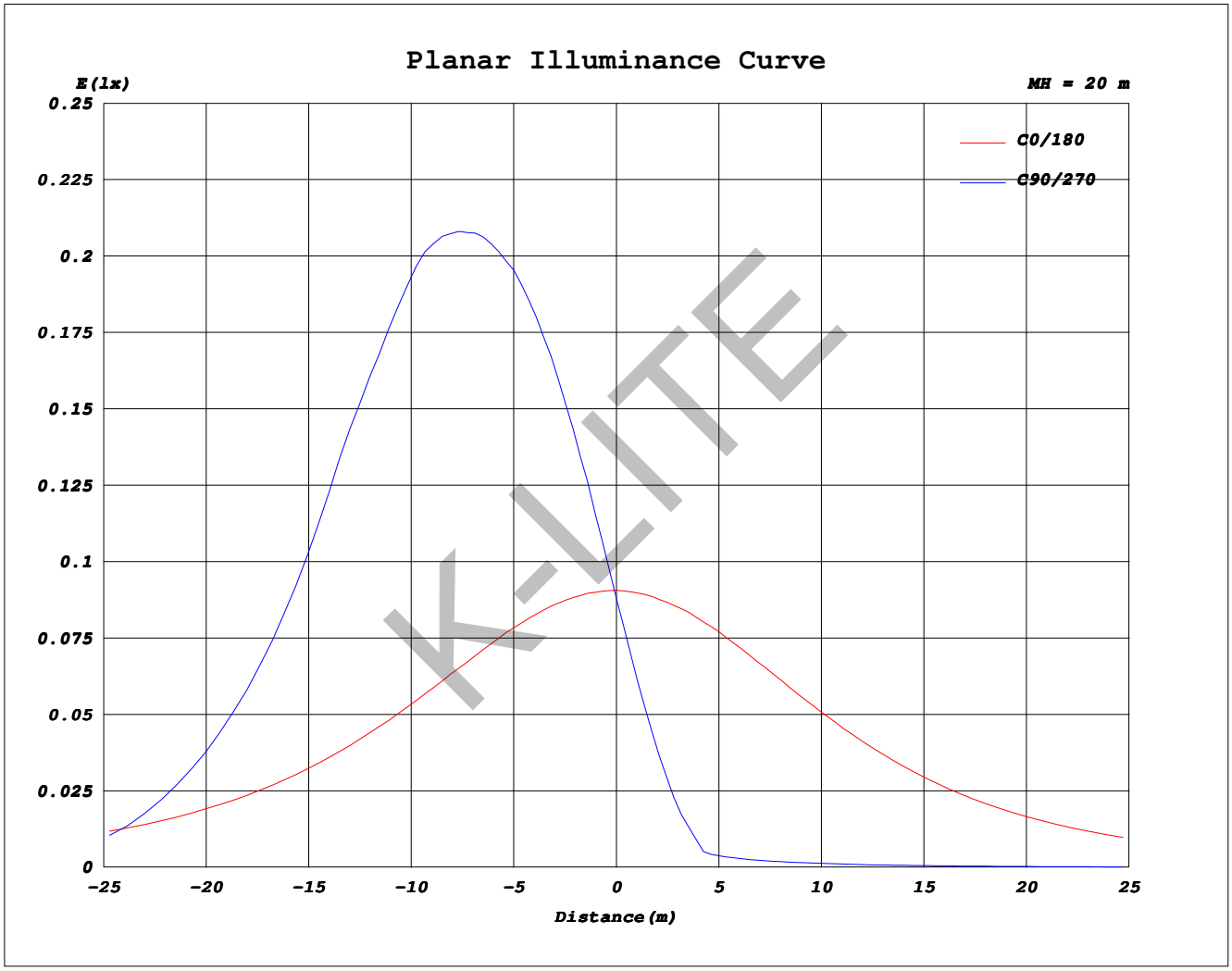
Test:U:230.31V I:0.0646A P:6.6820W PF:0.9844 Freq:49.98Hz Lamp Flux:802.9x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:0.8Kg
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:0658
MFR.: K-LITE	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	250
L_0~180(75)av	208
L_0~180(85)av	97
L_90~270(65)av	40
L_90~270(75)av	23
L_90~270(85)av	20
L_45(65)av	71
L_45(75)av	42
L_45(85)av	27

Standard: GB/T 29293-2012

K-LITE

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.31V I:0.0646A P:6.6820W PF:0.9844 Freq:49.98Hz Lamp Flux:802.9x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:0.8Kg
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:0658
MFR.: K-LITE	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
5	35.5	38.7	41.9	45.0	47.7	50.4	52.2	53.8	54.6	55.2	54.4	53.9	52.4	50.6	48.0	45.1	41.8	38.6	35.3
10	34.8	41.1	47.3	53.6	58.8	64.2	67.5	71.0	72.2	73.7	72.6	71.6	68.3	64.9	59.6	54.0	47.5	41.0	34.4
15	33.6	42.9	51.9	60.9	68.3	75.7	80.5	85.3	87.2	89.3	87.9	86.9	82.3	77.3	69.9	61.9	52.4	42.6	32.9
20	31.9	43.8	55.3	66.5	75.8	84.7	90.5	96.5	98.7	102	99.9	98.8	93.4	87.6	78.4	68.4	56.1	43.5	31.0
25	30.1	44.1	57.7	70.8	81.0	91.1	97.6	104	107	110	108	107	101	94.8	84.6	73.2	58.7	43.8	28.7
30	28.0	44.0	59.1	73.2	84.3	94.5	98.3	102	102	105	104	106	104	99.3	88.7	76.2	60.2	43.4	26.3
35	25.8	43.2	59.5	74.4	85.1	90.3	89.9	91.4	88.4	90.7	91.0	96.5	96.5	96.8	89.9	77.5	61.1	42.4	23.7
40	23.6	42.2	59.2	73.7	79.0	80.0	73.4	69.8	65.6	67.0	68.0	74.4	80.1	87.0	85.5	77.2	60.5	41.3	21.1
45	21.4	40.8	57.9	69.6	69.2	62.1	52.7	47.8	43.1	43.6	44.9	51.6	58.4	69.1	75.6	74.3	59.0	39.5	18.5
50	19.2	38.9	55.5	61.2	53.0	43.2	32.8	26.3	21.0	20.8	22.2	29.0	36.9	48.6	59.6	66.0	56.6	37.5	16.0
55	17.0	36.8	51.2	49.1	36.2	24.8	13.4	8.67	7.57	7.70	7.87	9.56	16.3	28.9	41.4	54.8	52.8	35.1	13.6
60	14.8	34.1	43.4	34.2	20.0	8.56	6.29	5.57	5.03	5.11	5.22	5.99	6.94	10.5	23.8	38.8	45.6	32.1	11.1
65	12.5	30.6	32.7	19.6	6.96	5.20	4.06	3.55	3.20	3.24	3.32	3.81	4.47	5.80	8.30	23.1	35.7	28.4	8.69
70	9.84	26.0	19.7	6.66	4.26	3.16	2.45	2.15	1.94	1.96	2.00	2.28	2.67	3.49	4.76	8.57	22.5	24.1	6.21
75	7.01	18.4	7.73	3.58	2.35	1.76	1.37	1.22	1.11	1.12	1.13	1.28	1.47	1.91	2.58	3.93	9.95	18.2	3.77
80	4.05	8.43	2.58	1.63	1.12	0.88	0.73	0.67	0.62	0.63	0.63	0.69	0.77	0.94	1.20	1.75	2.80	9.54	1.63
85	1.42	1.25	0.75	0.59	0.47	0.41	0.36	0.34	0.32	0.33	0.32	0.34	0.36	0.41	0.48	0.60	0.74	1.63	0.28
90	0.04	0.08	0.13	0.14	0.14	0.13	0.12	0.12	0.11	0.11	0.11	0.11	0.12	0.12	0.13	0.13	0.11	0.06	0.01

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.31V I:0.0646A P:6.6820W PF:0.9844 Freq:49.98Hz Lamp Flux:802.9x1 lm		
NAME: SUDO - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:0.8Kg
SPEC.:WW, NICHIA	DIM.: 255 x 87 x 76	SERIAL No.:0658
MFR.: K-LITE	SUR.:	Shielding Angle:

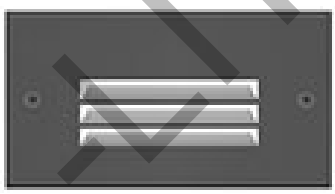
Table--2 UNIT: cd

γ (DEG) \ C(DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350
0	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
5	32.1	29.1	26.2	23.9	21.8	20.3	18.9	18.5	18.1	18.4	19.0	20.3	22.0	24.0	26.5	29.2	32.3
10	28.2	22.4	17.4	13.5	10.1	7.95	6.24	5.54	5.61	5.64	6.48	8.23	10.5	14.0	17.9	22.9	28.5
15	23.9	16.1	9.76	5.29	2.46	1.86	1.68	1.58	1.56	1.58	1.68	1.88	2.73	6.00	10.6	17.0	24.7
20	19.7	10.5	3.94	1.82	1.48	1.26	1.15	1.08	1.07	1.07	1.15	1.26	1.48	1.87	5.02	11.7	20.9
25	15.6	5.88	1.82	1.33	1.08	0.93	0.85	0.80	0.80	0.80	0.85	0.92	1.08	1.34	1.90	7.33	17.2
30	11.8	2.53	1.39	1.02	0.83	0.72	0.67	0.63	0.63	0.63	0.66	0.72	0.83	1.02	1.42	3.79	13.7
35	8.44	1.74	1.09	0.80	0.66	0.58	0.54	0.51	0.51	0.51	0.54	0.57	0.65	0.80	1.11	1.89	10.7
40	5.61	1.40	0.87	0.64	0.54	0.47	0.44	0.42	0.42	0.42	0.44	0.46	0.53	0.64	0.89	1.49	7.92
45	3.26	1.13	0.69	0.51	0.44	0.39	0.37	0.35	0.35	0.35	0.36	0.38	0.43	0.51	0.71	1.22	5.58
50	2.11	0.91	0.55	0.41	0.35	0.32	0.30	0.29	0.29	0.29	0.30	0.31	0.35	0.41	0.57	0.98	3.56
55	1.72	0.72	0.43	0.33	0.28	0.26	0.25	0.24	0.24	0.23	0.24	0.25	0.28	0.33	0.44	0.79	2.15
60	1.38	0.55	0.33	0.25	0.23	0.21	0.20	0.19	0.19	0.19	0.19	0.20	0.22	0.25	0.34	0.61	1.71
65	1.04	0.39	0.24	0.19	0.17	0.16	0.16	0.15	0.15	0.15	0.15	0.16	0.17	0.19	0.25	0.44	1.34
70	0.71	0.26	0.17	0.14	0.13	0.12	0.12	0.12	0.11	0.11	0.12	0.12	0.13	0.14	0.18	0.29	0.95
75	0.39	0.15	0.11	0.10	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.10	0.10	0.12	0.17	0.56
80	0.16	0.08	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.09	0.23
85	0.05	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.06
90	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:31 December 2019

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.825m [K=1.0000]
Remarks:



K-LITE

Light Output Ratio:	21.0%	
Luminaire Power:	6.147 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.75	fine grid method.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

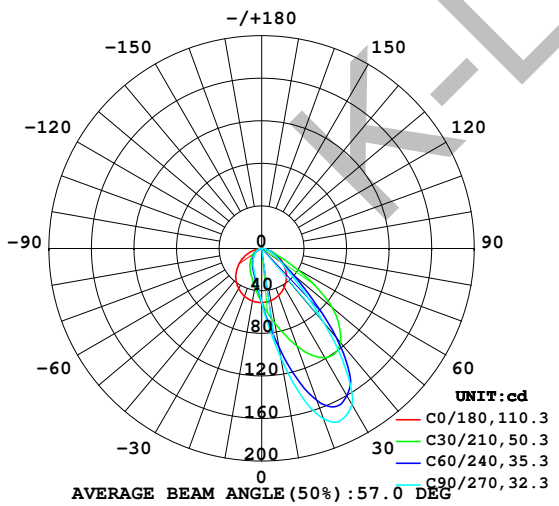
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.50V I:0.0273A P:6.1470W PF:0.9777 Freq:49.99Hz Lamp Flux:871.02x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4861
MFR.: K-LITE	SUR.:	Shielding Angle:

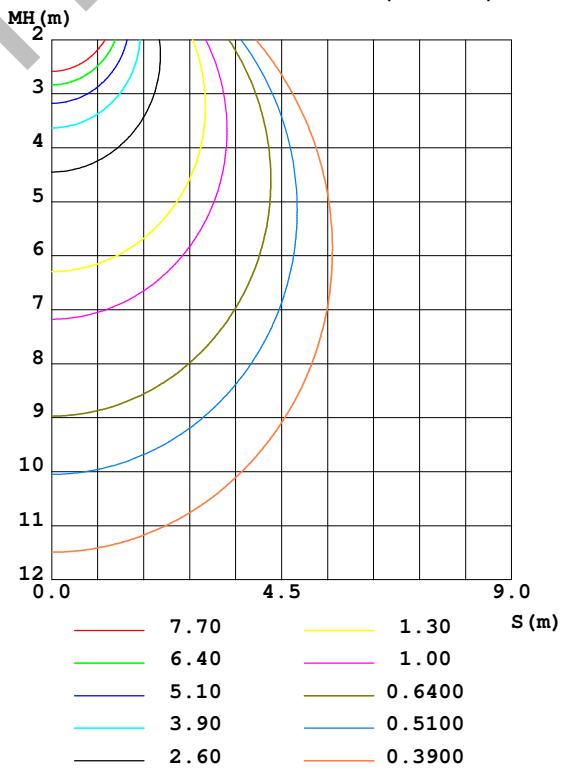
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 29.69 lm/W	
MODEL	KL-2746	Imax(cd)	178.3	S/MH(C0/180)	1.27
NOMINAL POWER(W)	6	LOR(%)	21.0	S/MH(C90/270)	0.45
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	182.53	η UP,DN(C0-180)	0.0,17.1
NOMINAL FLUX(lm)	871.02	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,3.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230	η down(%)	21.0	CIBSE SHR MAX	0.75

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):57.0 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	49.88	82.84	104.3	83.30	50.33	33.77	30.01	33.70	0- 10	5.221	5.221	2.86,0.60
20	47.02	128.8	170.4	130.7	47.80	25.13	21.95	25.02	10- 20	19.19	24.41	13.4,2.8
30	42.50	147.1	170.1	154.5	43.56	19.31	16.54	19.12	20- 30	35.63	60.04	32.9,6.89
40	36.35	122.5	91.23	133.4	37.81	14.59	12.38	14.34	30- 40	43.28	103.3	56.6,11.9
50	28.86	61.21	30.47	73.51	30.58	10.54	8.884	10.23	40- 50	35.45	138.8	76,15.9
60	20.31	20.86	16.25	25.31	22.21	7.004	5.888	6.670	50- 60	23.17	161.9	88.7,18.6
70	11.41	9.401	8.771	10.82	13.20	3.996	3.359	3.689	60- 70	13.41	175.3	96.1,20.1
80	3.224	3.373	3.485	4.182	4.499	1.601	1.318	1.378	70- 80	5.997	181.3	99.3,20.8
90	0	0	0	0.0002	0.0093	0	0	0.0032	80- 90	1.191	182.5	100,21
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

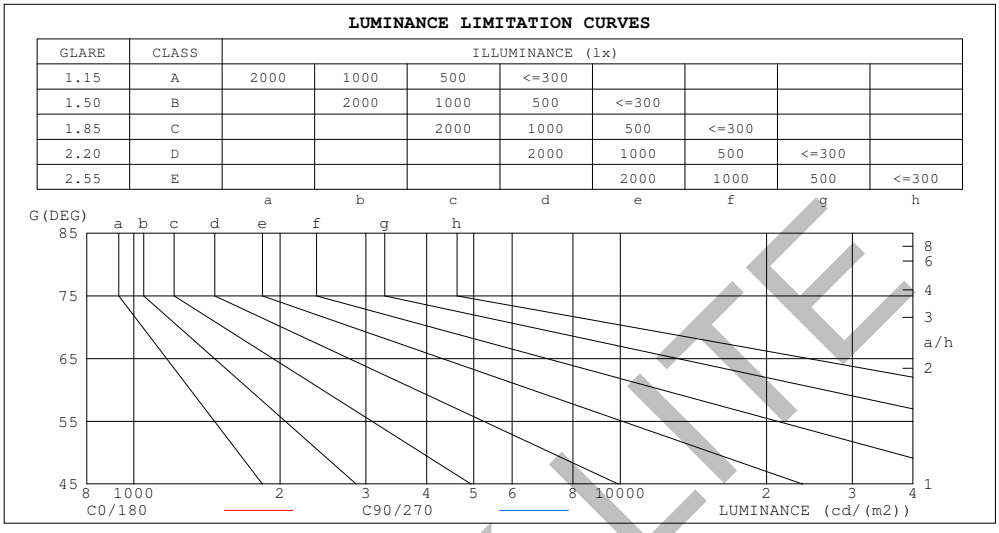
K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.50V I:0.0273A P:6.1470W PF:0.9777 Freq:49.99Hz Lamp Flux:871.02x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4861
MFR.: K-LITE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	78	136
80	188	199
75	279	228
70	337	254
65	379	283
60	410	322
55	435	380
50	454	469
45	468	754

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

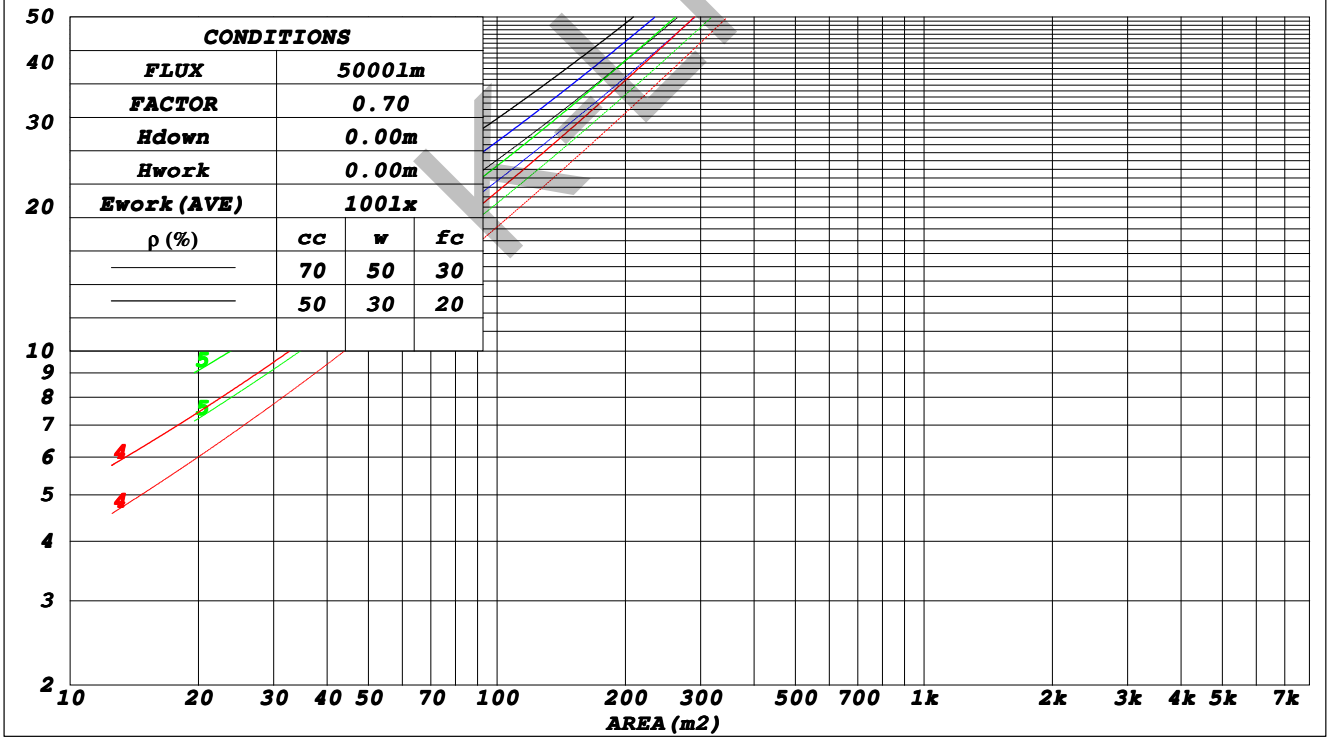
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.50V I:0.0273A P:6.1470W PF:0.9777 Freq:49.99Hz Lamp Flux:871.02x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4861
MFR.: K-LITE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	.25	.25	.25	.24	.24	.24	.23	.23	.23	.22	.22	.22	.21	.21	.21	.21
1.0	.22	.22	.21	.22	.21	.21	.21	.20	.20	.20	.20	.19	.19	.19	.19	.18
2.0	.20	.19	.18	.19	.18	.17	.19	.18	.17	.18	.17	.17	.17	.17	.16	.16
3.0	.18	.16	.15	.17	.16	.15	.17	.16	.15	.16	.15	.14	.16	.15	.14	.14
4.0	.16	.14	.13	.16	.14	.13	.15	.14	.13	.15	.13	.12	.14	.13	.12	.12
5.0	.14	.12	.11	.14	.12	.11	.14	.12	.11	.13	.12	.11	.13	.12	.11	.10
6.0	.13	.11	.10	.13	.11	.10	.12	.11	.10	.12	.11	.10	.12	.10	.10	.09
7.0	.12	.10	.09	.12	.10	.09	.11	.10	.09	.11	.10	.09	.11	.09	.09	.08
8.0	.11	.09	.08	.11	.09	.08	.10	.09	.08	.10	.09	.08	.10	.09	.08	.07
9.0	.10	.08	.07	.10	.08	.07	.09	.08	.07	.09	.08	.07	.09	.08	.07	.07
10.0	.09	.07	.06	.09	.07	.06	.09	.07	.06	.09	.07	.06	.08	.07	.06	.06

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.50V I:0.0273A P:6.1470W PF:0.9777 Freq:49.99Hz Lamp Flux:871.02x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4861
MFR.: K-LITE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coeffcients(WEC)												
0.0																
1.0	.055	.031	.010	.053	.030	.010	.051	.029	.009	.048	.028	.009	.046	.027	.009	
2.0	.053	.029	.009	.052	.028	.009	.049	.027	.009	.047	.026	.008	.045	.026	.008	
3.0	.050	.027	.008	.049	.026	.008	.047	.025	.008	.045	.025	.008	.043	.024	.007	
4.0	.047	.024	.007	.046	.024	.007	.044	.023	.007	.042	.023	.007	.041	.022	.007	
5.0	.044	.022	.007	.043	.022	.006	.042	.022	.006	.040	.021	.006	.039	.021	.006	
6.0	.041	.021	.006	.041	.021	.006	.039	.020	.006	.038	.020	.006	.037	.019	.006	
7.0	.039	.019	.005	.038	.019	.005	.037	.019	.005	.036	.018	.005	.035	.018	.005	
8.0	.037	.018	.005	.036	.018	.005	.035	.017	.005	.034	.017	.005	.033	.017	.005	
9.0	.035	.017	.005	.034	.017	.005	.033	.016	.005	.032	.016	.005	.031	.016	.005	
10.0	.033	.016	.004	.032	.016	.004	.031	.015	.004	.030	.015	.004	.030	.015	.004	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.040	.040	.040	.034	.034	.034	.023	.023	.023	.013	.013	.013	.004	.004	.004	
1.0	.037	.033	.029	.032	.028	.025	.022	.019	.017	.012	.011	.010	.004	.004	.003	
2.0	.035	.028	.022	.030	.024	.019	.021	.016	.013	.012	.010	.008	.004	.003	.002	
3.0	.033	.024	.016	.028	.021	.014	.020	.014	.010	.011	.008	.006	.004	.003	.002	
4.0	.032	.021	.013	.027	.018	.011	.019	.013	.008	.011	.007	.005	.003	.002	.002	
5.0	.030	.019	.011	.026	.016	.009	.018	.011	.006	.010	.007	.004	.003	.002	.001	
6.0	.029	.017	.009	.025	.015	.008	.017	.010	.005	.010	.006	.003	.003	.002	.001	
7.0	.027	.016	.007	.024	.014	.006	.016	.009	.005	.009	.006	.003	.003	.002	.001	
8.0	.026	.014	.006	.022	.012	.005	.016	.009	.004	.009	.005	.002	.003	.002	.001	
9.0	.025	.013	.005	.021	.012	.005	.015	.008	.003	.009	.005	.002	.003	.002	.001	
10.0	.024	.012	.005	.021	.011	.004	.014	.008	.003	.008	.004	.002	.003	.001	.001	

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.50V I:0.0273A P:6.1470W PF:0.9777 Freq:49.99Hz Lamp Flux:871.02x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4861
MFR.: K-LITE	SUR.:	Shielding Angle:

ceiling/cavity		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H	y = 2H	14.9	16.3	15.1	16.5	16.7	11.9	13.3	12.2	13.5	13.7
	3H	15.7	17.0	16.0	17.2	17.4	12.2	13.5	12.5	13.7	13.9
	4H	15.9	17.1	16.2	17.4	17.6	12.3	13.5	12.6	13.8	14.0
	6H	15.9	17.1	16.3	17.3	17.6	12.4	13.5	12.7	13.8	14.1
	8H	15.9	17.0	16.2	17.3	17.5	12.4	13.5	12.7	13.8	14.1
	12H	15.9	16.9	16.2	17.2	17.5	12.4	13.4	12.7	13.7	14.0
4H	2H	14.8	16.0	15.1	16.2	16.5	12.3	13.5	12.6	13.7	14.0
	3H	15.7	16.7	16.0	17.0	17.3	12.6	13.7	13.0	14.0	14.3
	4H	16.0	16.9	16.3	17.2	17.6	12.8	13.8	13.2	14.1	14.4
	6H	16.0	16.9	16.4	17.2	17.6	13.0	13.8	13.4	14.1	14.5
	8H	16.0	16.8	16.4	17.2	17.5	13.0	13.8	13.4	14.1	14.5
	12H	16.0	16.7	16.4	17.1	17.5	13.0	13.7	13.4	14.1	14.5
8H	4H	15.9	16.7	16.3	17.0	17.4	12.9	13.6	13.3	14.0	14.4
	6H	16.0	16.6	16.5	17.1	17.5	13.1	13.7	13.5	14.1	14.6
	8H	16.0	16.6	16.5	17.0	17.5	13.2	13.7	13.6	14.2	14.6
	12H	16.0	16.5	16.5	16.9	17.4	13.2	13.7	13.7	14.2	14.6
12H	4H	15.9	16.6	16.3	16.9	17.3	12.9	13.6	13.3	13.9	14.3
	6H	16.0	16.5	16.4	17.0	17.4	13.1	13.7	13.6	14.1	14.5
	8H	16.0	16.5	16.5	16.9	17.4	13.2	13.7	13.7	14.1	14.6

Variations with the observer position at spacings:		
S = 1.0H	+ 1.7 / - 2.4	+ 1.4 / - 2.2
1.5H	+ 1.1 / - 4.0	+ 1.7 / - 2.0
2.0H	+ 1.9 / - 4.1	+ 1.8 / - 1.3

CIE Pub.117, 871.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.5)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

K-LITE

UTILIZATION FACTORS TABLE

Test:U:230.50V I:0.0273A P:6.1470W PF:0.9777 Freq:49.99Hz Lamp Flux:871.02x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4861
MFR.: K-LITE	SUR.:	Shielding Angle:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	13	11	10	13	11	10	13	11	10	9
0.80	16	13	12	15	13	12	15	13	12	11
1.00	17	15	14	17	15	14	17	15	14	13
1.25	19	17	16	18	17	15	18	16	15	14
1.50	20	18	17	19	18	17	19	17	16	15
2.00	21	19	18	21	19	18	20	19	18	16
2.50	22	20	19	21	20	19	20	19	19	17
3.00	22	21	20	22	21	20	21	20	19	18
4.00	23	22	21	22	21	21	21	21	20	18
5.00	23	22	22	23	22	21	22	21	21	19
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

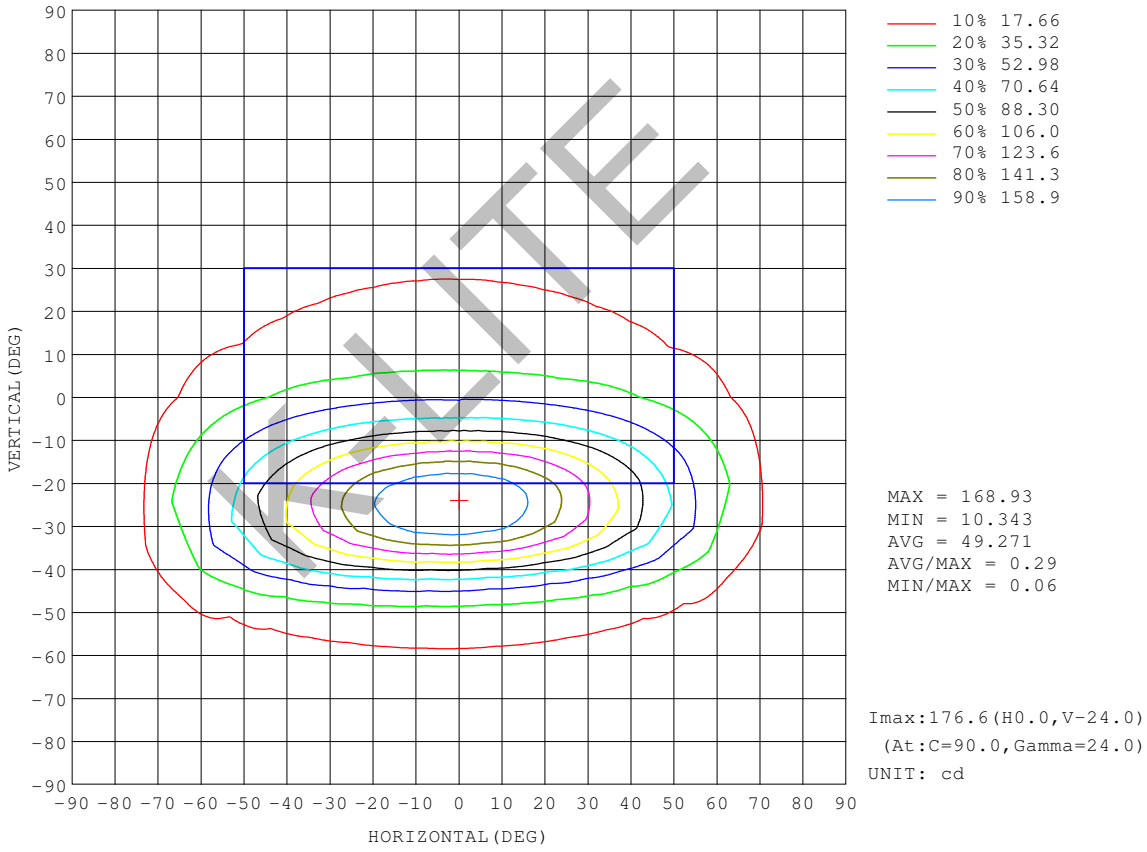
K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.50V I:0.0273A P:6.1470W PF:0.9777 Freq:49.99Hz Lamp Flux:871.02x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4861
MFR.: K-LITE	SUR.:	Shielding Angle:



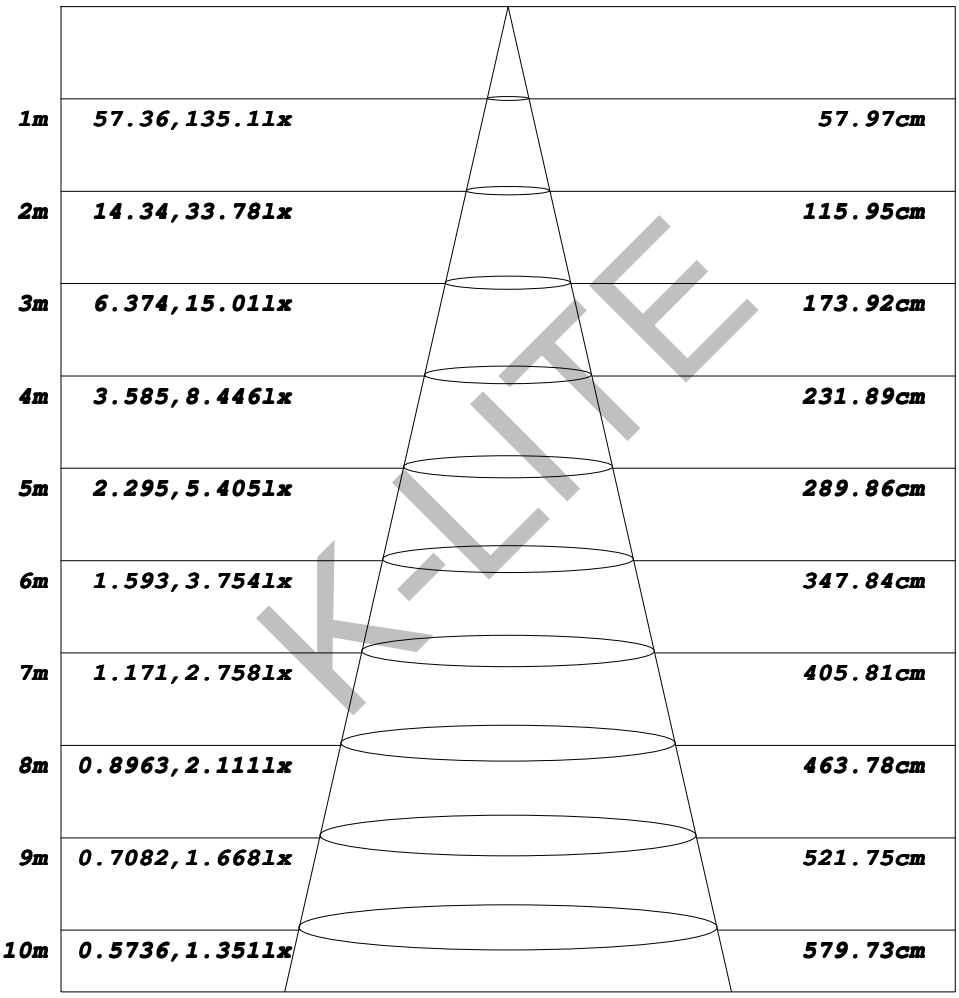
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.50V I:0.0273A P:6.1470W PF:0.9777 Freq:49.99Hz Lamp Flux:871.02x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4861
MFR.: K-LITE	SUR.:	Shielding Angle:

Flux out:16.84 lm



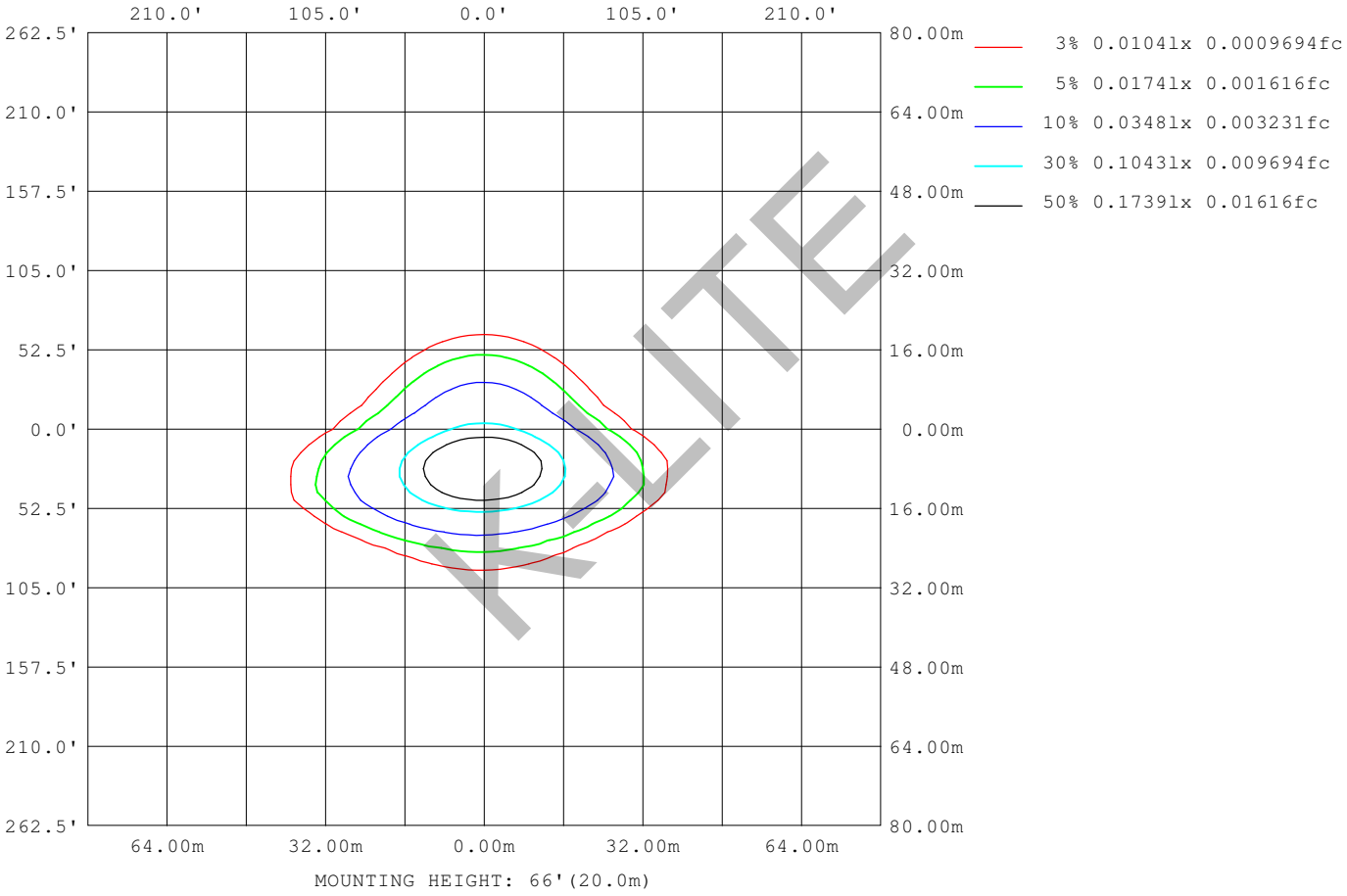
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.50V I:0.0273A P:6.1470W PF:0.9777 Freq:49.99Hz Lamp Flux:871.02x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4861
MFR.: K-LITE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LED Avg.L Report

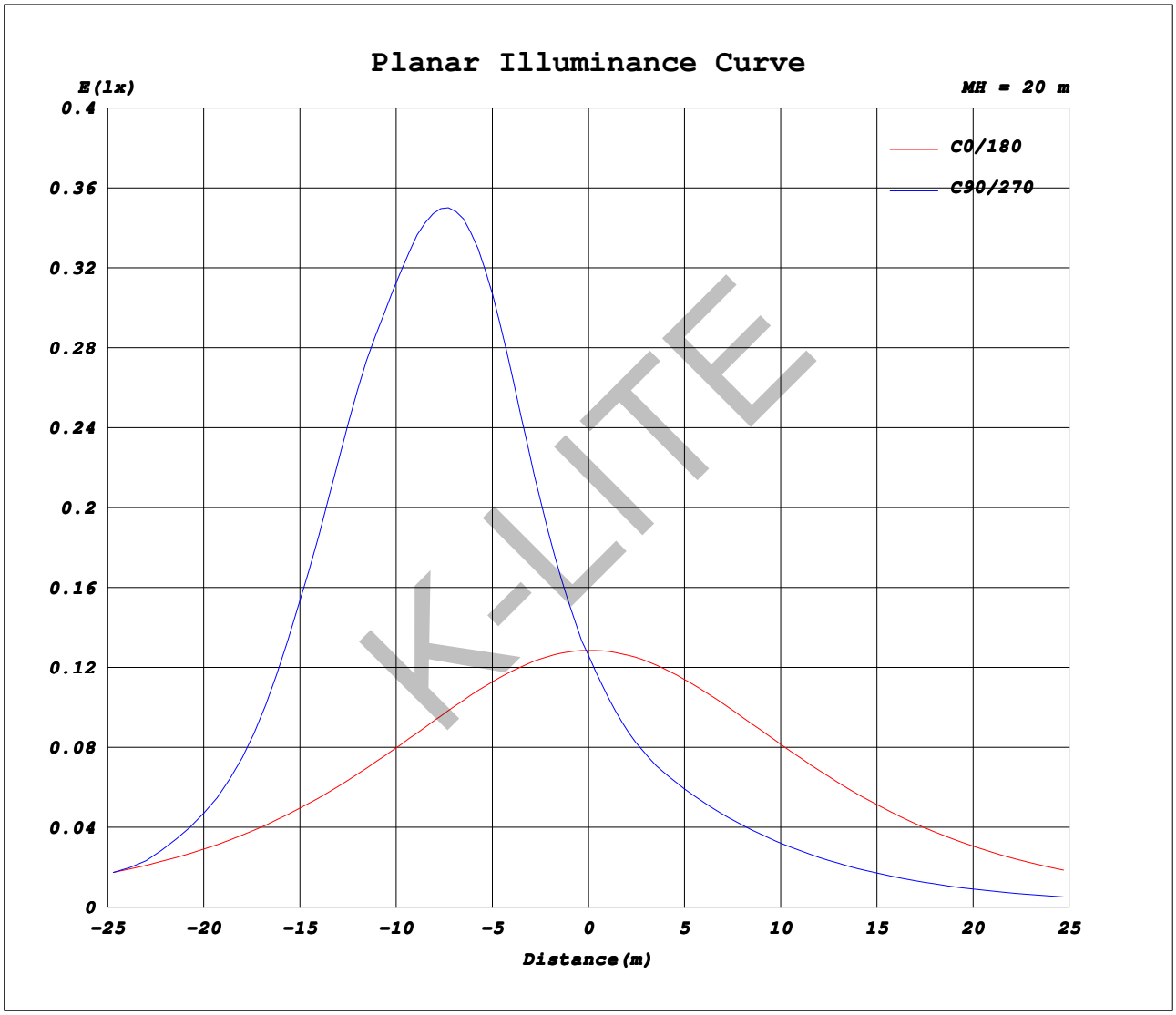
Test:U:230.50V I:0.0273A P:6.1470W PF:0.9777 Freq:49.99Hz Lamp Flux:871.02x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4861
MFR.: K-LITE	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	397
L_0~180(75)av	307
L_0~180(85)av	121
L_90~270(65)av	197
L_90~270(75)av	159
L_90~270(85)av	94
L_45(65)av	235
L_45(75)av	177
L_45(85)av	111

Standard: GB/T 29293-2012

K-LITE

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.50V I:0.0273A P:6.1470W PF:0.9777 Freq:49.99Hz Lamp Flux:871.02x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4861
MFR.: K-LITE	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
5	50.7	53.6	56.8	60.0	63.1	65.6	68.6	70.2	71.6	71.9	71.7	70.1	68.6	65.7	63.3	60.1	56.9	53.8	50.8
10	49.9	56.0	63.1	71.0	79.1	86.6	94.1	99.5	103	104	103	99.4	94.5	86.9	79.7	71.4	63.6	56.5	50.3
15	48.7	58.1	69.8	83.8	99.0	113	126	135	141	143	141	135	127	114	99.9	84.7	70.7	58.9	49.3
20	47.0	59.7	76.8	98.0	120	138	152	163	167	170	168	164	154	140	122	99.4	78.1	60.9	47.8
25	45.0	60.8	83.5	111	135	153	164	172	174	178	176	175	169	157	139	113	85.4	62.4	45.9
30	42.5	61.3	89.0	119	140	154	160	166	167	170	169	170	166	162	147	123	91.7	63.2	43.6
35	39.6	61.0	92.1	120	135	144	144	142	136	137	139	147	153	153	145	127	95.8	63.4	40.9
40	36.4	59.8	91.9	115	123	122	109	100	90.1	91.2	93.5	106	119	133	134	125	97.5	62.7	37.8
45	32.8	57.5	87.7	103	101	86.8	68.0	59.3	52.8	53.8	55.3	64.3	77.2	99.1	115	115	95.5	61.0	34.4
50	28.9	54.1	79.8	86.7	70.7	51.7	40.0	33.8	30.1	30.5	31.1	37.0	45.7	62.1	84.9	100	89.8	58.2	30.6
55	24.7	49.2	67.5	62.5	41.2	29.5	24.0	22.7	21.6	22.0	22.2	23.8	26.2	35.6	52.9	77.1	79.5	54.1	26.5
60	20.3	42.9	52.5	36.8	22.7	19.0	17.1	16.5	15.9	16.2	16.3	17.3	18.5	21.4	29.3	50.4	65.4	48.7	22.2
65	15.8	34.7	33.5	19.5	14.7	13.2	12.3	12.1	11.8	12.1	12.1	12.7	13.3	14.9	17.3	27.2	46.5	42.0	17.7
70	11.4	24.6	16.5	11.3	9.69	9.11	8.71	8.69	8.54	8.77	8.79	9.17	9.51	10.2	11.4	14.4	26.3	33.3	13.2
75	7.16	12.8	8.02	6.74	6.17	5.97	5.80	5.84	5.80	5.95	5.98	6.23	6.43	6.85	7.39	8.49	11.4	20.7	8.75
80	3.22	4.06	3.74	3.58	3.40	3.34	3.29	3.36	3.38	3.49	3.51	3.68	3.79	4.05	4.32	4.76	5.35	7.01	4.50
85	0.67	0.92	1.17	1.16	1.10	1.07	1.05	1.09	1.12	1.20	1.26	1.39	1.50	1.66	1.81	2.00	2.11	1.88	1.43
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.01

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.50V I:0.0273A P:6.1470W PF:0.9777 Freq:49.99Hz Lamp Flux:871.02x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4861
MFR.: K-LITE	SUR.:	Shielding Angle:

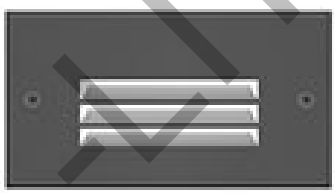
Table--2 UNIT: cd

C(DEG) / γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0		
5	48.1	45.7	43.5	41.8	40.2	39.2	38.5	37.9	37.9	37.9	38.3	39.1	40.2	41.7	43.4	45.5	47.9		
10	45.0	40.8	37.3	34.7	32.9	31.5	30.7	30.0	30.0	30.0	30.6	31.5	32.8	34.6	37.1	40.5	44.8		
15	41.8	36.2	32.3	29.5	27.9	26.7	26.1	25.5	25.5	25.5	26.0	26.7	27.8	29.5	32.1	35.9	41.4		
20	38.4	32.1	28.2	25.9	24.3	23.2	22.5	21.9	21.9	21.9	22.4	23.0	24.2	25.8	28.1	31.9	38.0		
25	35.0	28.5	25.1	22.8	21.2	20.2	19.6	19.0	19.0	19.0	19.5	20.1	21.1	22.7	24.8	28.2	34.5		
30	31.5	25.3	22.2	20.0	18.6	17.6	17.0	16.6	16.5	16.5	16.9	17.4	18.4	19.8	21.9	24.9	31.0		
35	28.1	22.5	19.5	17.5	16.2	15.3	14.8	14.4	14.4	14.4	14.7	15.2	16.0	17.2	19.1	22.0	27.6		
40	24.7	19.7	16.9	15.2	14.0	13.2	12.8	12.4	12.4	12.4	12.6	13.1	13.8	14.9	16.6	19.2	24.1		
45	21.4	17.1	14.5	13.0	12.0	11.3	10.9	10.6	10.6	10.5	10.8	11.1	11.7	12.7	14.1	16.5	20.7		
50	18.4	14.5	12.3	11.0	10.1	9.52	9.20	8.92	8.88	8.85	9.05	9.33	9.83	10.6	11.8	13.9	17.6		
55	15.5	12.0	10.2	9.07	8.35	7.87	7.58	7.35	7.31	7.29	7.44	7.67	8.07	8.71	9.69	11.4	14.6		
60	12.5	9.68	8.18	7.29	6.71	6.33	6.11	5.92	5.89	5.86	5.96	6.13	6.42	6.92	7.69	9.03	11.6		
65	9.72	7.49	6.32	5.65	5.22	4.92	4.74	4.58	4.55	4.52	4.59	4.73	4.94	5.28	5.84	6.85	8.83		
70	7.09	5.46	4.62	4.15	3.84	3.62	3.50	3.39	3.36	3.33	3.36	3.43	3.57	3.81	4.14	4.83	6.24		
75	4.71	3.63	3.11	2.80	2.62	2.49	2.40	2.32	2.29	2.26	2.27	2.31	2.42	2.51	2.67	3.04	3.93		
80	2.61	2.04	1.78	1.65	1.55	1.46	1.40	1.34	1.32	1.29	1.28	1.30	1.37	1.39	1.42	1.54	1.91		
85	0.97	0.79	0.73	0.67	0.61	0.56	0.51	0.47	0.44	0.42	0.40	0.41	0.43	0.43	0.43	0.44	0.47		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:01 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:



K-LITE

Light Output Ratio:	19.3%	
Luminaire Power:	6.343 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

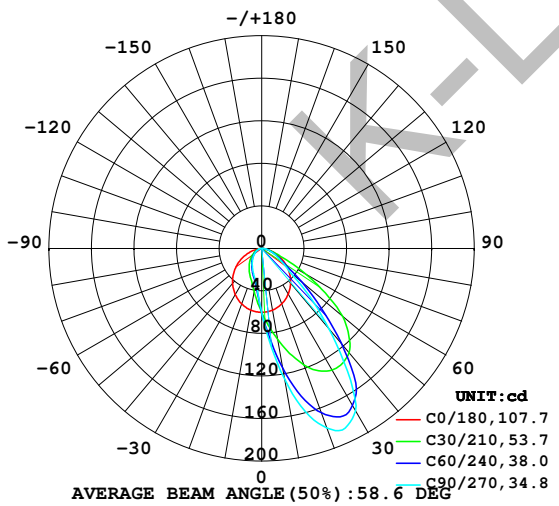
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.58V I:0.0281A P:6.3426W PF:0.9800 Freq:49.99Hz Lamp Flux:1036.8x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4866
MFR.: K-LITE	SUR.:	Shielding Angle:

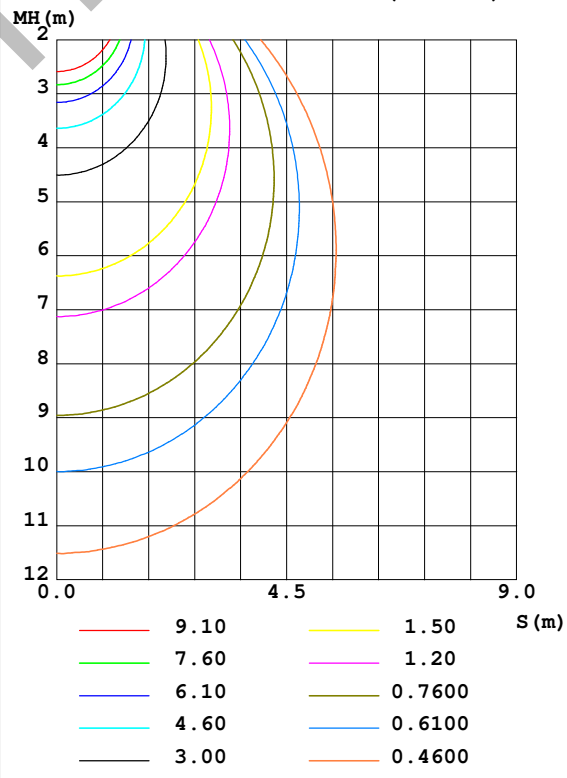
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 31.57 lm/W	
MODEL	KL-2746	Imax(cd)	187.0	S/MH(C0/180)	1.24
NOMINAL POWER(W)	6	LOR(%)	19.3	S/MH(C90/270)	0.38
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	200.26	η UP,DN(C0-180)	0.0,15.8
NOMINAL FLUX(lm)	1036.8	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,3.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230	η down(%)	19.3	CIBSE SHR MAX	0.80

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):58.6 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	59.00	101.5	124.8	101.4	59.06	36.72	32.39	36.80	0- 10	6.172	6.172	3.08,0.60
20	55.46	145.0	179.6	144.9	55.56	27.11	23.90	27.28	10- 20	21.83	28.00	14,2.7
30	49.88	159.1	176.7	159.1	50.01	20.87	18.06	21.03	20- 30	38.66	66.66	33.3,6.43
40	42.45	133.7	98.14	134.6	42.77	15.74	13.54	15.85	30- 40	46.18	112.8	56.3,10.9
50	33.59	72.20	35.12	73.90	34.06	11.31	9.678	11.35	40- 50	38.71	151.6	75.7,14.6
60	23.70	26.28	18.78	27.27	24.25	7.454	6.376	7.423	50- 60	25.70	177.2	88.5,17.1
70	13.47	11.46	10.16	11.85	14.07	4.183	3.607	4.099	60- 70	14.97	192.2	96,18.5
80	4.105	4.241	4.101	4.539	4.329	1.616	1.360	1.503	70- 80	6.704	198.9	99.3,19.2
90	0	0.0015	0.0010	0	0	0.0038	0	0	80- 90	1.336	200.3	100,19.3
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

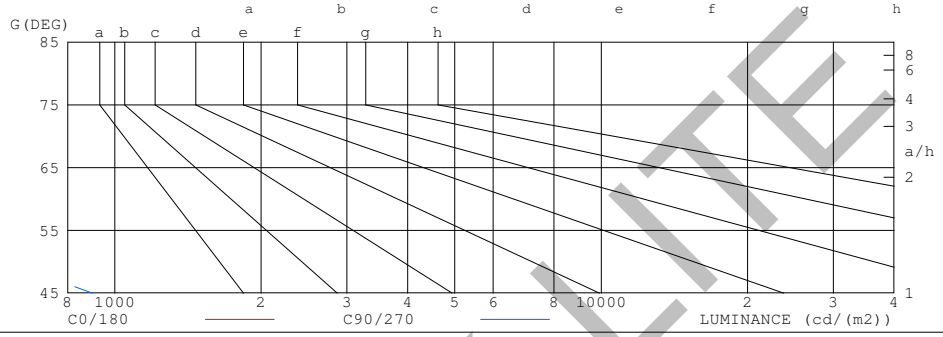
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.58V I:0.0281A P:6.3426W PF:0.9800 Freq:49.99Hz Lamp Flux:1036.8x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4866
MFR.: K-LITE	SUR.:	Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	120	173
80	239	234
75	337	265
70	399	294
65	444	328
60	480	372
55	508	439
50	529	541
45	547	900

K-LITE

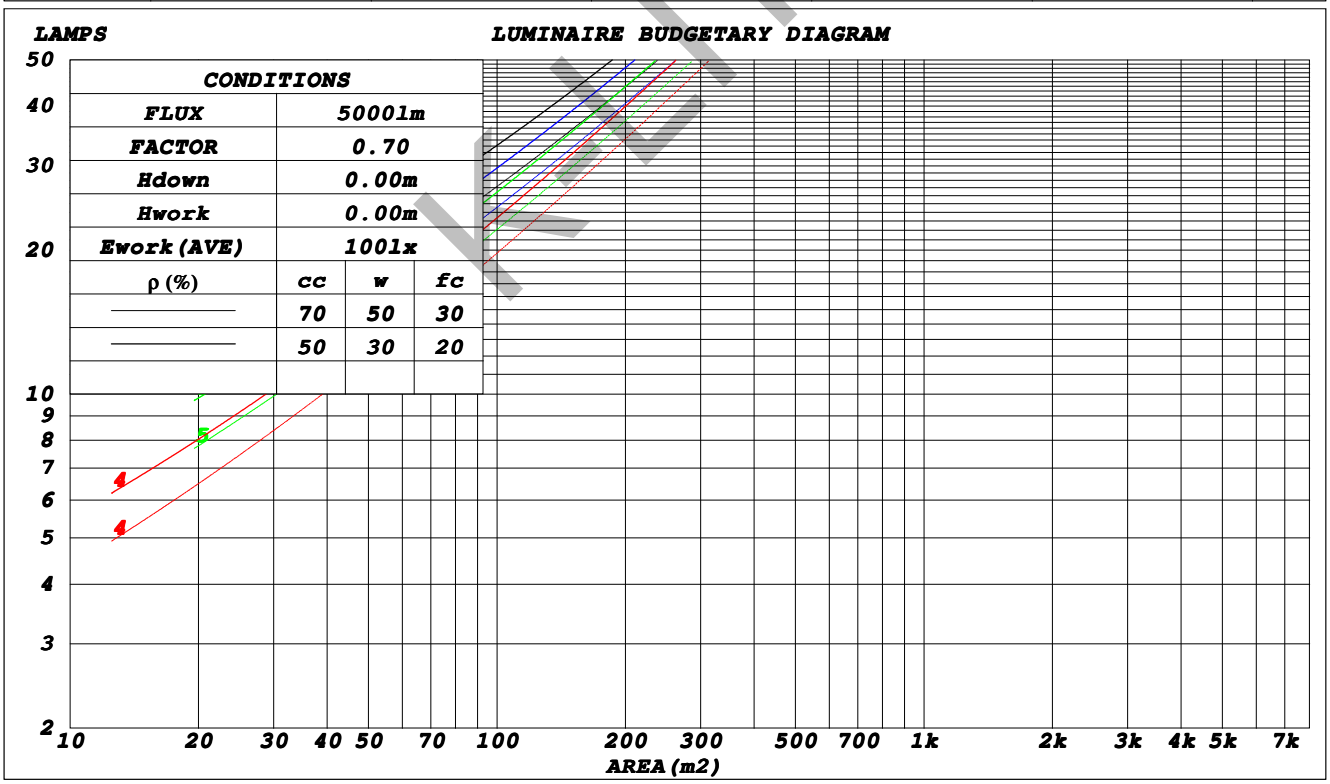
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.58V I:0.0281A P:6.3426W PF:0.9800 Freq:49.99Hz Lamp Flux:1036.8x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4866
MFR.: K-LITE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	.23	.23	.23	.22	.22	.22	.21	.21	.21	.21	.21	.21	.20	.20	.20	.19
1.0	.21	.20	.19	.20	.19	.19	.19	.19	.18	.19	.18	.18	.18	.18	.17	.17
2.0	.18	.17	.16	.18	.17	.16	.17	.16	.16	.17	.16	.15	.16	.15	.15	.15
3.0	.16	.15	.14	.16	.15	.14	.15	.14	.13	.15	.14	.13	.14	.14	.13	.13
4.0	.15	.13	.12	.14	.13	.12	.14	.13	.12	.13	.12	.11	.13	.12	.11	.11
5.0	.13	.12	.10	.13	.11	.10	.13	.11	.10	.12	.11	.10	.12	.11	.10	.10
6.0	.12	.10	.09	.12	.10	.09	.11	.10	.09	.11	.10	.09	.11	.10	.09	.08
7.0	.11	.09	.08	.11	.09	.08	.10	.09	.08	.10	.09	.08	.10	.09	.08	.08
8.0	.10	.08	.07	.10	.08	.07	.10	.08	.07	.09	.08	.07	.09	.08	.07	.07
9.0	.09	.08	.07	.09	.08	.07	.09	.07	.06	.09	.07	.06	.08	.07	.06	.06
10.0	.08	.07	.06	.08	.07	.06	.08	.07	.06	.08	.07	.06	.08	.07	.06	.06



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.58V I:0.0281A P:6.3426W PF:0.9800 Freq:49.99Hz Lamp Flux:1036.8x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4866
MFR.: K-LITE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coeffcients(WEC)												
0.0																
1.0	.051	.029	.009	.049	.028	.009	.047	.027	.009	.044	.026	.008	.042	.025	.008	
2.0	.049	.027	.008	.048	.026	.008	.046	.025	.008	.043	.024	.008	.042	.024	.007	
3.0	.046	.025	.007	.045	.024	.007	.043	.023	.007	.041	.023	.007	.040	.022	.007	
4.0	.043	.023	.007	.042	.022	.007	.041	.022	.006	.039	.021	.006	.038	.020	.006	
5.0	.041	.021	.006	.040	.020	.006	.038	.020	.006	.037	.019	.006	.036	.019	.006	
6.0	.038	.019	.005	.037	.019	.005	.036	.018	.005	.035	.018	.005	.034	.018	.005	
7.0	.036	.018	.005	.035	.018	.005	.034	.017	.005	.033	.017	.005	.032	.017	.005	
8.0	.034	.017	.005	.033	.016	.005	.032	.016	.005	.031	.016	.005	.030	.015	.005	
9.0	.032	.015	.004	.031	.015	.004	.030	.015	.004	.029	.015	.004	.029	.015	.004	
10.0	.030	.014	.004	.030	.014	.004	.029	.014	.004	.028	.014	.004	.027	.014	.004	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.037	.037	.037	.031	.031	.031	.021	.021	.021	.012	.012	.012	.004	.004	.004	
1.0	.034	.030	.027	.029	.026	.023	.020	.018	.016	.012	.010	.009	.004	.003	.003	
2.0	.032	.026	.020	.028	.022	.017	.019	.015	.012	.011	.009	.007	.004	.003	.002	
3.0	.031	.022	.015	.026	.019	.013	.018	.013	.009	.010	.008	.005	.003	.003	.002	
4.0	.029	.019	.012	.025	.017	.010	.017	.012	.007	.010	.007	.004	.003	.002	.001	
5.0	.028	.017	.010	.024	.015	.008	.016	.010	.006	.010	.006	.004	.003	.002	.001	
6.0	.026	.016	.008	.023	.014	.007	.016	.010	.005	.009	.006	.003	.003	.002	.001	
7.0	.025	.014	.007	.022	.012	.006	.015	.009	.004	.009	.005	.002	.003	.002	.001	
8.0	.024	.013	.006	.021	.011	.005	.014	.008	.004	.008	.005	.002	.003	.002	.001	
9.0	.023	.012	.005	.020	.011	.004	.014	.007	.003	.008	.004	.002	.003	.001	.001	
10.0	.022	.011	.004	.019	.010	.004	.013	.007	.003	.008	.004	.002	.002	.001	.001	

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.58V I:0.0281A P:6.3426W PF:0.9800 Freq:49.99Hz Lamp Flux:1036.8x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4866
MFR.: K-LITE	SUR.:	Shielding Angle:

ceiling/cavity		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H	y = 2H	15.0	16.4	15.3	16.6	16.8	11.9	13.3	12.2	13.5	13.7
	3H	16.0	17.3	16.3	17.5	17.8	12.2	13.5	12.5	13.7	13.9
	4H	16.3	17.5	16.6	17.8	18.0	12.3	13.5	12.6	13.8	14.0
	6H	16.3	17.5	16.7	17.7	18.0	12.4	13.5	12.7	13.8	14.1
	8H	16.3	17.4	16.6	17.7	18.0	12.4	13.5	12.8	13.8	14.1
	12H	16.3	17.3	16.6	17.6	17.9	12.4	13.5	12.8	13.7	14.0
4H	2H	15.0	16.2	15.3	16.4	16.7	12.3	13.5	12.6	13.8	14.0
	3H	16.0	17.1	16.4	17.4	17.7	12.7	13.7	13.0	14.0	14.3
	4H	16.4	17.3	16.8	17.6	18.0	12.9	13.8	13.3	14.2	14.5
	6H	16.5	17.3	16.9	17.7	18.0	13.1	13.9	13.5	14.2	14.6
	8H	16.5	17.3	16.9	17.6	18.0	13.1	13.9	13.5	14.3	14.6
	12H	16.5	17.2	16.9	17.6	18.0	13.1	13.8	13.6	14.2	14.6
8H	4H	16.3	17.1	16.7	17.5	17.8	13.0	13.8	13.4	14.1	14.5
	6H	16.5	17.1	16.9	17.5	17.9	13.2	13.9	13.7	14.3	14.7
	8H	16.5	17.1	17.0	17.5	17.9	13.3	13.9	13.8	14.3	14.8
	12H	16.5	17.0	17.0	17.4	17.9	13.4	13.9	13.9	14.3	14.8
12H	4H	16.3	17.0	16.7	17.4	17.8	13.0	13.7	13.4	14.1	14.5
	6H	16.5	17.0	16.9	17.4	17.9	13.3	13.8	13.7	14.2	14.7
	8H	16.5	17.0	17.0	17.4	17.9	13.4	13.8	13.8	14.3	14.8
Variations with the observer position at spacings:											
S = 1.0H		+ 1.5 / - 2.1					+ 1.3 / - 1.9				
1.5H		+ 1.2 / - 4.0					+ 1.3 / - 1.9				
2.0H		+ 1.7 / - 4.1					+ 1.9 / - 1.5				

CIE Pub.117, 1037 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.1)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

K-LITE

UTILIZATION FACTORS TABLE

Test:U:230.58V I:0.0281A P:6.3426W PF:0.9800 Freq:49.99Hz Lamp Flux:1036.8x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4866
MFR.: K-LITE	SUR.:	Shielding Angle:

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	12	10	9	12	10	9	12	10	9	8
0.80	14	12	11	14	12	11	14	12	11	10
1.00	16	14	13	16	14	13	15	14	13	11
1.25	17	15	14	17	15	14	16	15	14	13
1.50	18	16	15	18	16	15	17	16	15	14
2.00	19	18	17	19	18	17	18	17	16	15
2.50	20	19	18	19	18	17	19	18	17	16
3.00	20	19	18	20	19	18	19	18	18	16
4.00	21	20	19	21	20	19	20	19	19	17
5.00	21	21	20	21	20	20	20	20	19	17
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

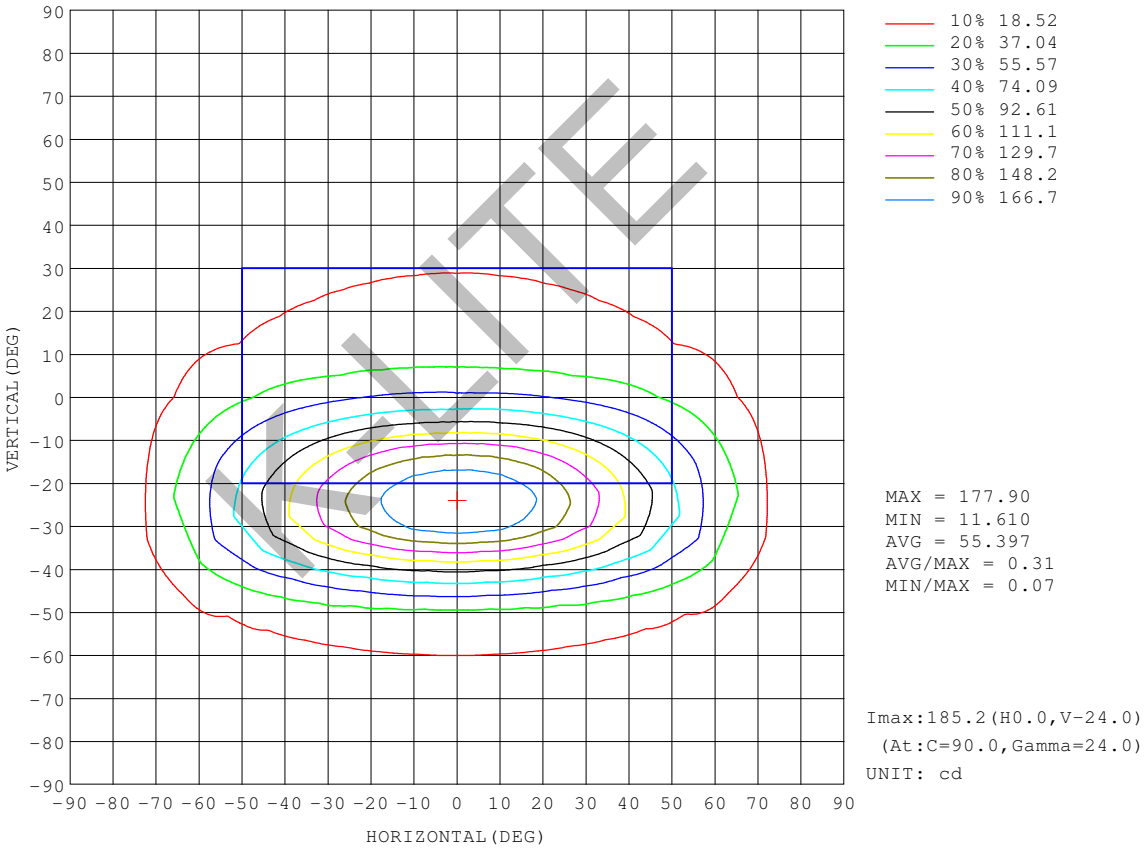
K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.58V I:0.0281A P:6.3426W PF:0.9800 Freq:49.99Hz Lamp Flux:1036.8x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4866
MFR.: K-LITE	SUR.:	Shielding Angle:

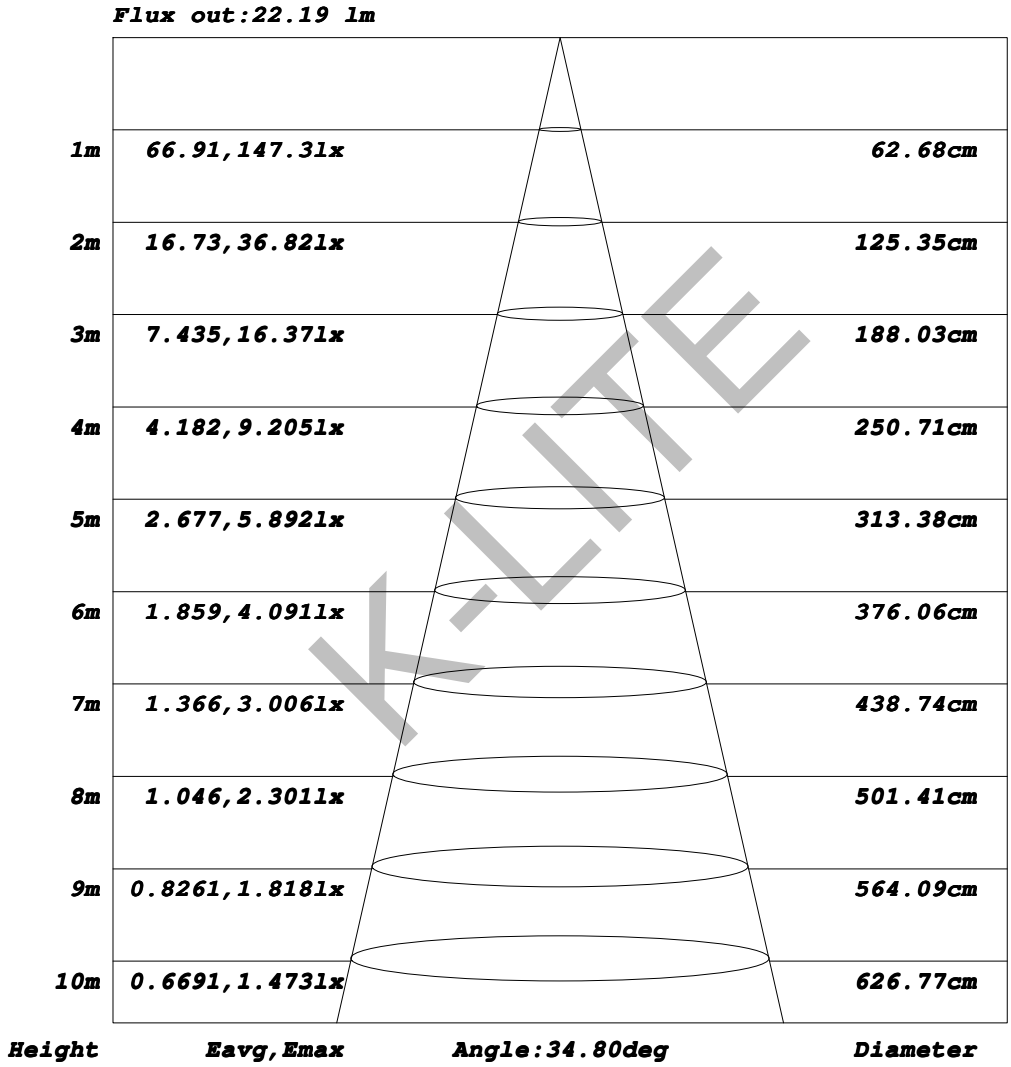


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.58V I:0.0281A P:6.3426W PF:0.9800 Freq:49.99Hz Lamp Flux:1036.8x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4866
MFR.: K-LITE	SUR.:	Shielding Angle:



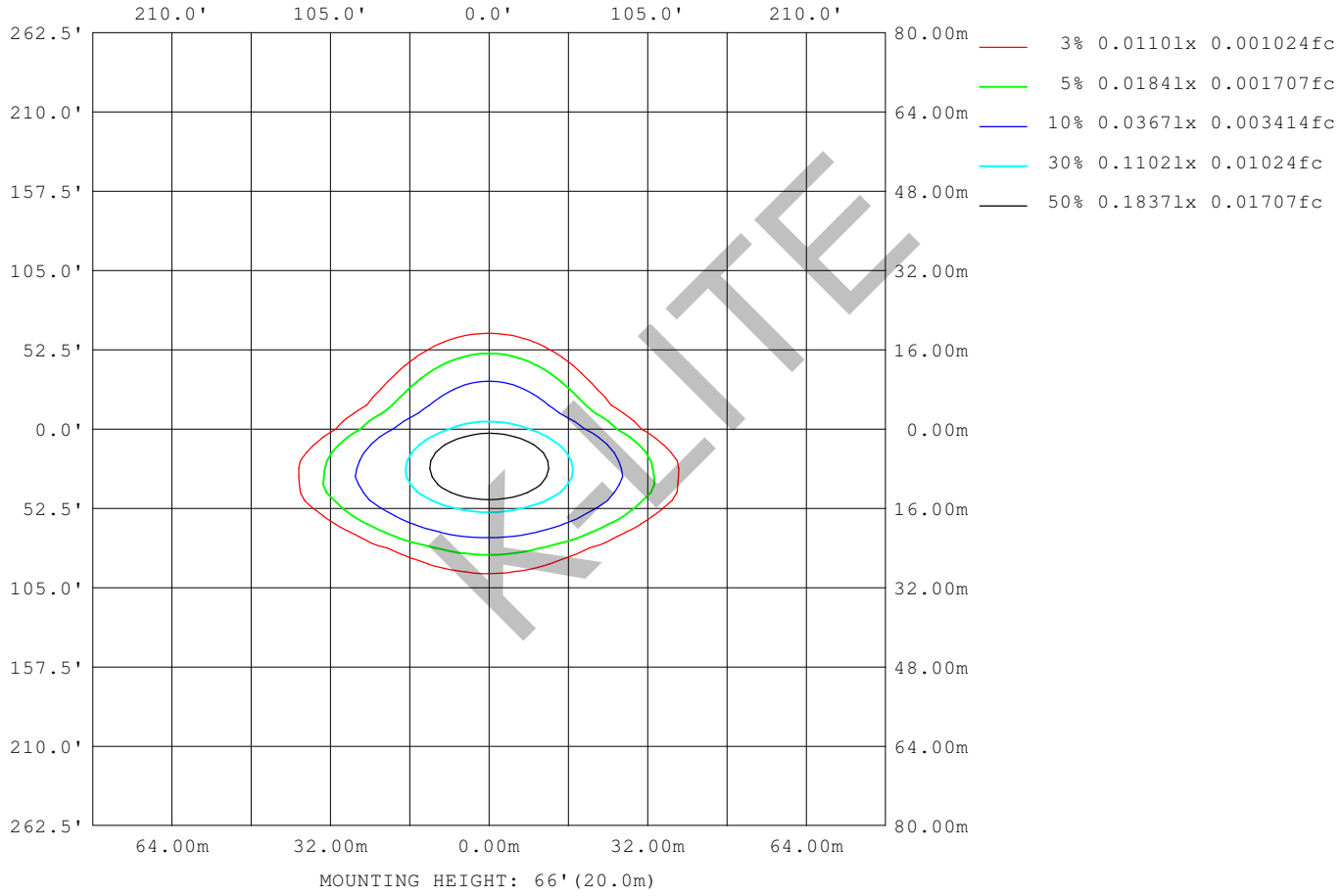
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.58V I:0.0281A P:6.3426W PF:0.9800 Freq:49.99Hz Lamp Flux:1036.8x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4866
MFR.: K-LITE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LED Avg.L Report

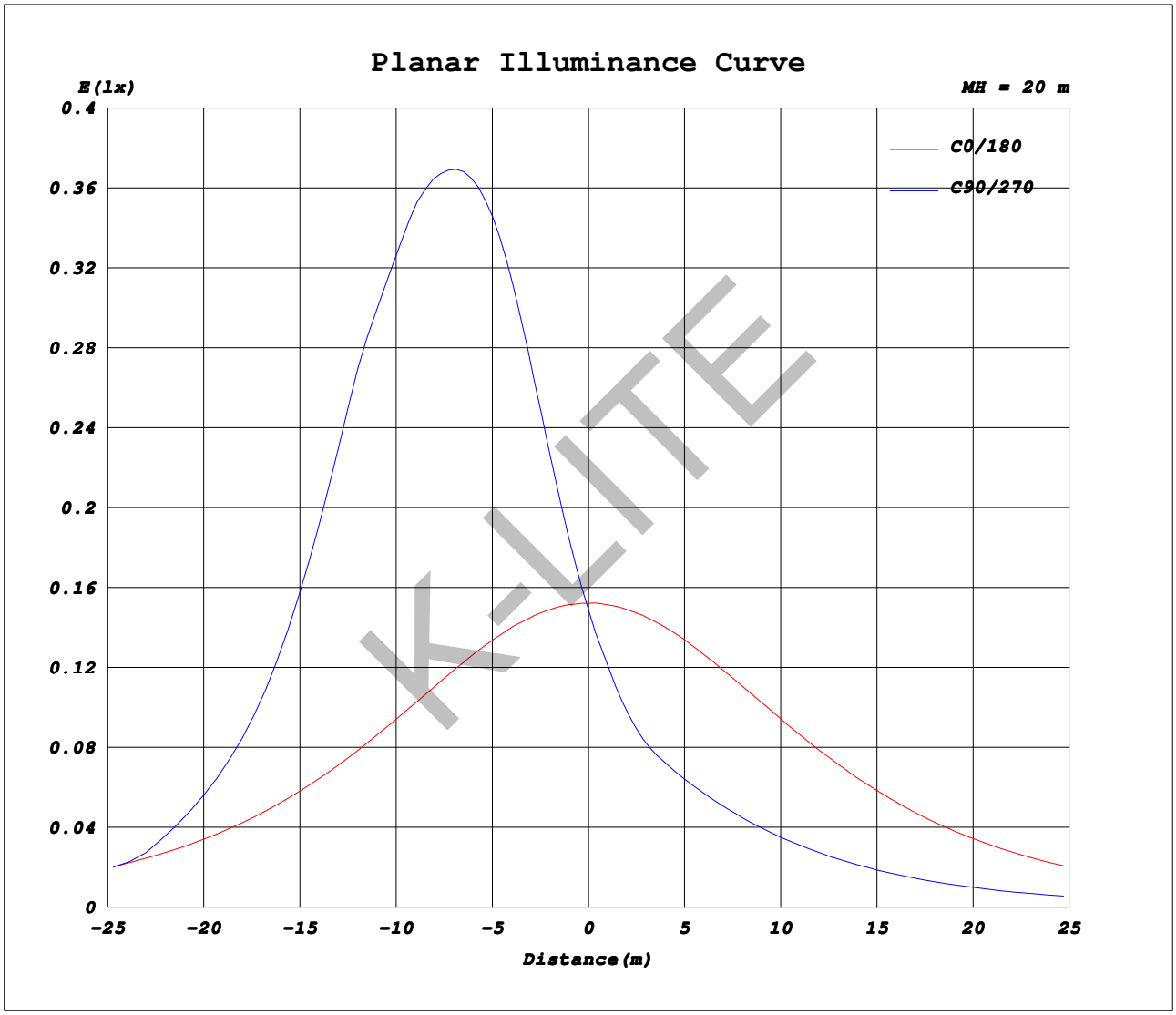
Test:U:230.58V I:0.0281A P:6.3426W PF:0.9800 Freq:49.99Hz Lamp Flux:1036.8x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4866
MFR.: K-LITE	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	446
L_0~180(75)av	341
L_0~180(85)av	128
L_90~270(65)av	224
L_90~270(75)av	181
L_90~270(85)av	111
L_45(65)av	267
L_45(75)av	199
L_45(85)av	128

Standard: GB/T 29293-2012

K-LITE

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.58V I:0.0281A P:6.3426W PF:0.9800 Freq:49.99Hz Lamp Flux:1036.8x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4866
MFR.: K-LITE	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
5	59.9	64.0	68.2	72.4	76.6	80.5	83.7	86.1	87.6	88.2	87.5	86.2	83.6	80.4	76.7	72.5	68.1	63.9	59.9
10	59.0	67.3	76.8	86.8	96.8	106	114	120	123	125	123	120	114	106	96.9	86.9	76.7	67.4	59.1
15	57.5	70.2	85.5	102	118	133	144	152	156	159	156	152	143	133	118	102	85.5	70.3	57.6
20	55.5	72.5	93.4	117	136	154	164	174	176	180	176	174	164	153	136	117	93.4	72.6	55.6
25	52.9	73.8	100	127	148	165	175	183	183	186	183	183	174	165	148	127	99.9	73.9	53.0
30	49.9	74.0	104	132	151	167	171	176	174	177	174	176	171	167	151	132	104	74.3	50.0
35	46.4	73.2	105	132	148	156	154	149	140	141	140	150	155	156	148	132	105	73.6	46.5
40	42.5	71.2	103	128	135	132	117	107	97.9	98.1	98.3	109	118	134	136	128	103	71.7	42.8
45	38.2	67.7	98.1	116	113	96.7	78.9	71.1	64.2	64.3	64.7	72.2	80.3	98.1	114	117	98.4	68.4	38.6
50	33.6	63.1	90.3	99.6	80.6	63.7	49.9	41.7	35.3	35.1	35.5	42.6	51.1	65.2	82.6	101	91.2	63.9	34.1
55	28.7	57.0	78.4	73.4	52.0	37.8	28.6	26.8	25.3	25.4	25.4	27.1	29.0	39.1	53.9	75.2	79.8	57.8	29.3
60	23.7	49.7	63.4	46.8	29.4	23.1	20.3	19.5	18.6	18.8	18.7	19.7	20.6	23.6	30.9	49.0	64.8	50.7	24.3
65	18.5	41.3	42.4	26.0	18.1	16.0	14.6	14.3	13.8	14.0	13.9	14.5	14.9	16.4	18.7	27.7	44.2	42.5	19.1
70	13.5	31.1	23.0	14.4	11.9	11.0	10.4	10.3	9.99	10.2	10.1	10.5	10.6	11.4	12.3	15.2	24.6	32.7	14.1
75	8.61	17.6	10.6	8.49	7.59	7.30	6.96	6.95	6.80	6.93	6.87	7.12	7.18	7.59	7.98	8.99	11.2	18.6	9.04
80	4.10	5.66	4.92	4.59	4.29	4.20	4.05	4.07	4.00	4.10	4.09	4.23	4.24	4.46	4.62	5.01	5.35	6.22	4.33
85	1.03	1.38	1.67	1.67	1.58	1.54	1.47	1.47	1.45	1.52	1.56	1.64	1.68	1.79	1.87	2.02	2.06	1.77	1.20
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.58V I:0.0281A P:6.3426W PF:0.9800 Freq:49.99Hz Lamp Flux:1036.8x1 lm		
NAME: SUDO MINI - GRID FRAME	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 130 x 87 x 76	SERIAL No.:4866
MFR.: K-LITE	SUR.:	Shielding Angle:

Table--2 UNIT: cd

γ (DEG) \ C(DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2		
5	56.0	52.8	50.0	47.4	45.5	43.9	43.0	42.2	42.2	42.2	43.1	43.9	45.5	47.4	50.0	52.7	56.1		
10	51.8	46.0	41.5	37.9	35.6	33.7	33.0	32.2	32.4	32.3	33.1	33.7	35.6	38.0	41.6	46.0	51.8		
15	47.4	40.0	34.9	31.6	30.2	28.8	28.2	27.5	27.6	27.6	28.3	28.9	30.3	31.8	35.0	40.0	47.5		
20	43.0	34.7	30.3	27.8	26.4	25.0	24.5	23.8	23.9	23.8	24.6	25.1	26.5	28.1	30.6	34.8	43.1		
25	38.6	30.3	27.0	24.5	23.1	21.9	21.3	20.7	20.8	20.7	21.4	21.9	23.2	24.7	27.2	30.5	38.7		
30	34.3	27.0	23.9	21.6	20.2	19.1	18.5	18.0	18.1	18.0	18.6	19.1	20.3	21.7	24.1	27.2	34.5		
35	30.1	24.0	20.9	18.8	17.6	16.6	16.1	15.7	15.7	15.7	16.2	16.6	17.7	19.0	21.2	24.2	30.3		
40	26.1	21.0	18.2	16.3	15.2	14.3	13.9	13.5	13.5	13.5	14.0	14.4	15.3	16.4	18.4	21.2	26.3		
45	22.6	18.2	15.6	13.9	13.0	12.2	11.9	11.5	11.5	11.5	11.9	12.2	13.0	14.0	15.7	18.3	22.8		
50	19.4	15.4	13.2	11.7	10.9	10.3	9.95	9.66	9.68	9.65	9.97	10.3	10.9	11.8	13.2	15.5	19.6		
55	16.2	12.7	10.8	9.65	8.98	8.45	8.19	7.94	7.95	7.94	8.19	8.43	8.96	9.67	10.9	12.8	16.3		
60	13.1	10.2	8.68	7.73	7.18	6.76	6.57	6.37	6.38	6.37	6.56	6.73	7.14	7.70	8.66	10.2	13.1		
65	10.1	7.84	6.66	5.94	5.55	5.23	5.06	4.90	4.90	4.89	5.04	5.18	5.49	5.88	6.58	7.76	10.1		
70	7.30	5.65	4.81	4.32	4.04	3.81	3.71	3.60	3.61	3.59	3.68	3.75	3.96	4.24	4.71	5.53	7.22		
75	4.70	3.66	3.17	2.88	2.73	2.59	2.51	2.44	2.43	2.42	2.48	2.52	2.64	2.78	3.05	3.52	4.58		
80	2.46	1.96	1.76	1.66	1.58	1.48	1.42	1.37	1.36	1.35	1.38	1.40	1.47	1.54	1.63	1.82	2.29		
85	0.79	0.69	0.65	0.61	0.56	0.50	0.46	0.43	0.41	0.40	0.41	0.42	0.45	0.49	0.52	0.56	0.64		
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

K-LITE

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:02 September 2022

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
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