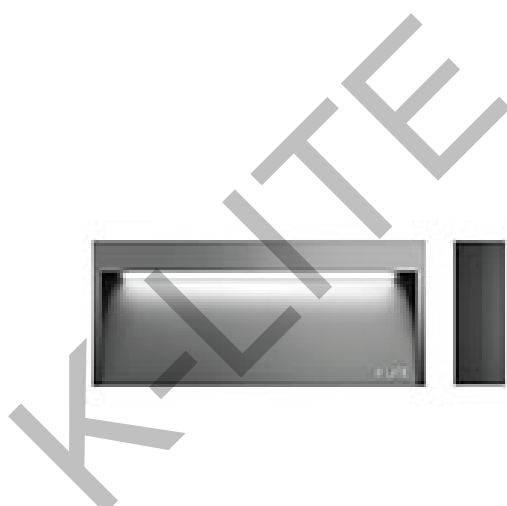




Light Output Ratio:	51.5%	
Luminaire Power:	11.93 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: K-LITE
Test Date: 03 September 2022

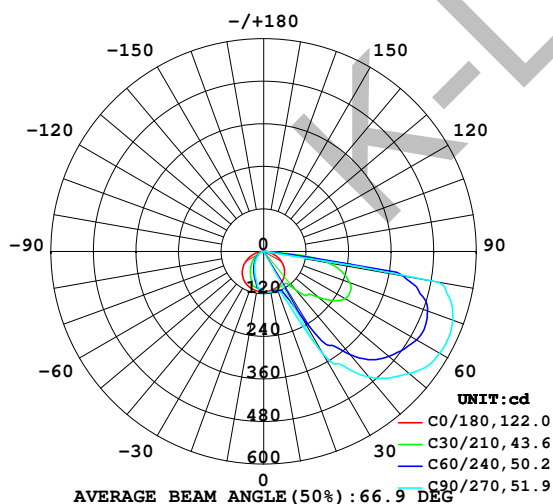
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 1.852m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

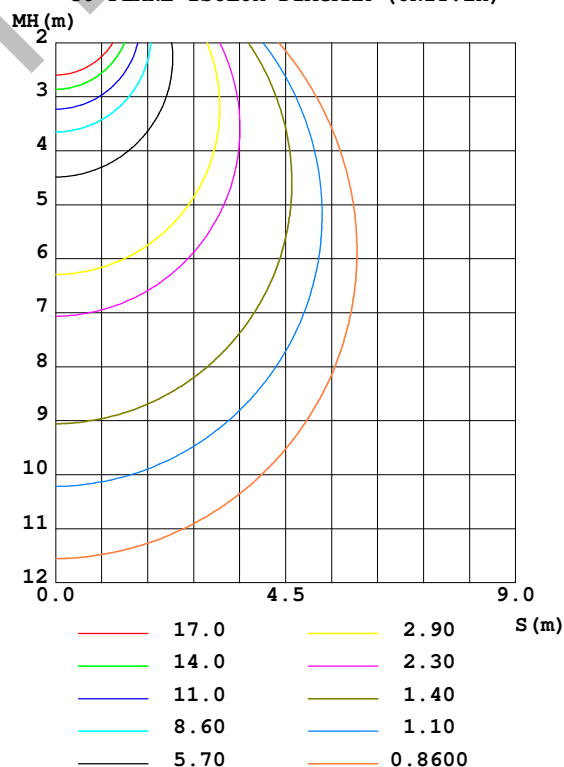
Test:U:230.50V I:0.0530A P:11.932W PF:0.9770 Freq:50.00Hz Lamp Flux:1738.8x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4869
MFR.: K-LITE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 75.02 lm/W
MODEL	KL-2767	I _{max} (cd)	576.3	S/MH (C0/180)	1.34	
NOMINAL POWER (W)	12	LOR (%)	51.5	S/MH (C90/270)	0.76	
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	895.11	η UP, DN (C0-180)	0.0, 45.5	
NOMINAL FLUX (lm)	1738.8	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 6.0	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	230	η down (%)	51.5	CIBSE SHR MAX	1.00	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: K-LITE
 Test Date: 03 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:

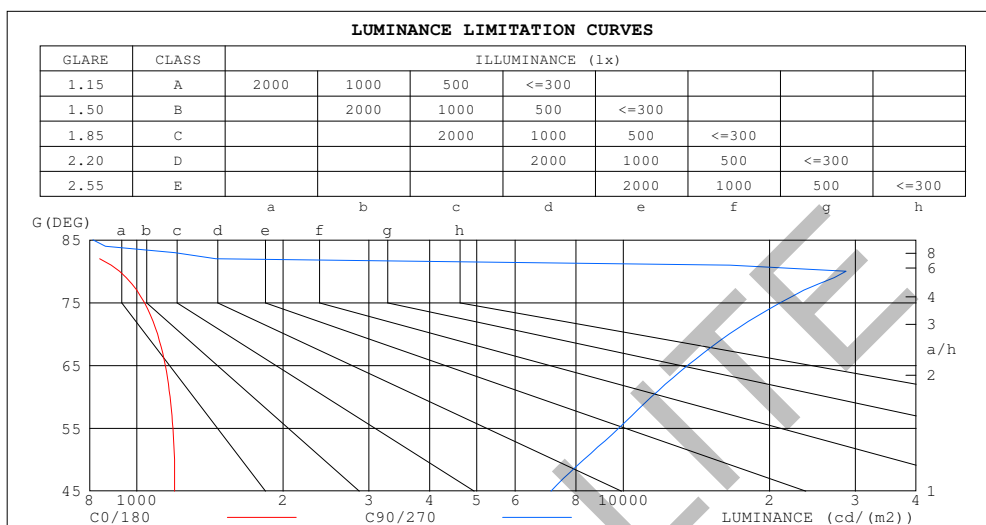
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	112.5	115.2	115.8	115.9	113.3	104.8	99.69	104.4	0- 10	10.66	10.66	1.19, 0.61
20	108.3	113.9	121.4	115.2	109.8	84.12	71.26	83.26	10- 20	29.75	40.41	4.51, 2.32
30	101.1	128.0	329.7	128.2	103.1	64.14	51.87	63.33	20- 30	48.51	88.93	9.93, 5.11
40	90.73	264.5	462.8	276.3	92.63	47.46	36.94	46.84	30- 40	91.03	180.0	20.1, 10.3
50	76.36	361.5	536.1	381.4	78.30	33.11	25.11	32.70	40- 50	135.4	315.4	35.2, 18.1
60	58.16	394.2	573.8	420.6	59.94	21.12	15.71	20.87	50- 60	170.5	485.9	54.3, 27.9
70	37.50	387.4	567.6	418.0	38.92	11.63	8.414	11.48	60- 70	189.4	675.3	75.4, 38.8
80	15.90	296.1	500.4	327.8	16.84	4.662	3.088	4.563	70- 80	180.0	855.3	95.6, 49.2
90	0	0.0066	0.0094	0.0086	0	0	0	0	80- 90	39.83	895.1	100, 51.5
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		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: K-LITE
Test Date: 03 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:0.0530A P:11.932W PF:0.9770 Freq:50.00Hz Lamp Flux:1738.8x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4869
MFR.: K-LITE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	673	812
80	921	28706
75	1038	21052
70	1103	16530
65	1145	13565
60	1171	11430
55	1187	9796
50	1196	8307
45	1196	7101

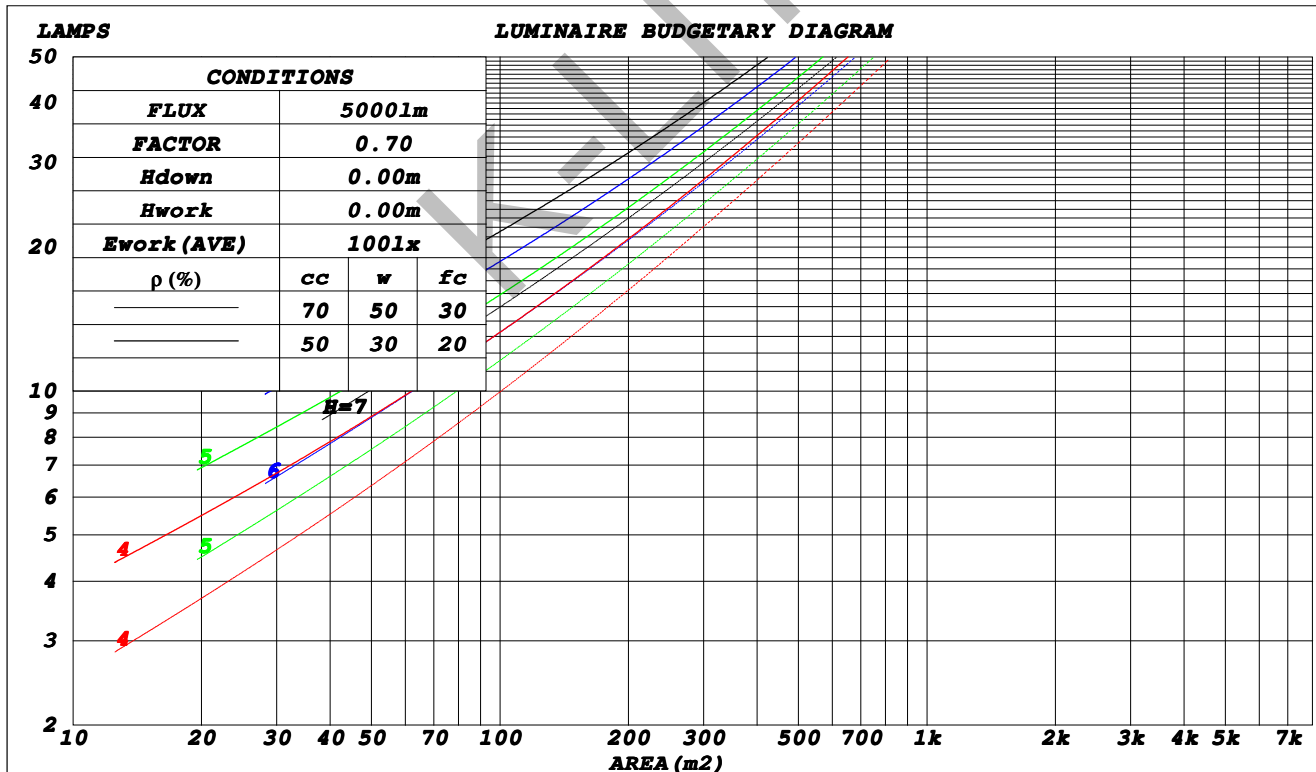
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: K-LITE
Test Date: 03 September 2022

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:0.0530A P:11.932W PF:0.9770 Freq:50.00Hz Lamp Flux:1738.8x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4869
MFR.: K-LITE	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	.61	.61	.61	.60	.60	.60	.57	.57	.57	.55	.55	.55	.53	.53	.53	.51
1.0	.50	.47	.44	.49	.46	.43	.47	.44	.42	.44	.43	.41	.43	.41	.39	.38
2.0	.41	.36	.32	.40	.36	.32	.38	.34	.31	.36	.33	.30	.35	.32	.30	.28
3.0	.34	.29	.25	.34	.28	.24	.32	.27	.24	.30	.27	.23	.29	.26	.23	.21
4.0	.29	.24	.19	.29	.23	.19	.27	.23	.19	.26	.22	.18	.25	.21	.18	.17
5.0	.25	.20	.16	.25	.19	.15	.24	.19	.15	.23	.18	.15	.21	.18	.15	.14
6.0	.22	.17	.13	.22	.17	.13	.21	.16	.13	.20	.16	.12	.19	.15	.12	.11
7.0	.20	.15	.11	.19	.14	.11	.19	.14	.11	.18	.14	.11	.17	.13	.10	.09
8.0	.18	.13	.09	.18	.13	.09	.17	.12	.09	.16	.12	.09	.15	.12	.09	.08
9.0	.16	.11	.08	.16	.11	.08	.15	.11	.08	.15	.11	.08	.14	.10	.08	.07
10.0	.15	.10	.07	.15	.10	.07	.14	.10	.07	.13	.10	.07	.13	.09	.07	.06



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: K-LITE
 Test Date: 03 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:0.0530A P:11.932W PF:0.9770 Freq:50.00Hz Lamp Flux:1738.8x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4869
MFR.: K-LITE	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0		
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0		
ρ_{fc}	20%			20%			20%			20%			20%			0		
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)											
0.0																		
1.0	.224	.127	.040	.220	.126	.040	.213	.122	.039	.206	.119	.038	.200	.116	.037			
2.0	.202	.111	.034	.199	.109	.034	.192	.107	.033	.186	.104	.033	.181	.102	.032			
3.0	.180	.096	.029	.177	.095	.029	.171	.093	.028	.166	.091	.028	.161	.089	.028			
4.0	.161	.084	.025	.158	.083	.024	.153	.081	.024	.148	.080	.024	.144	.078	.024			
5.0	.145	.074	.021	.142	.073	.021	.138	.072	.021	.134	.070	.021	.129	.069	.021			
6.0	.131	.066	.019	.129	.065	.019	.125	.064	.019	.121	.063	.019	.118	.062	.018			
7.0	.120	.059	.017	.118	.059	.017	.115	.058	.017	.111	.057	.017	.108	.056	.016			
8.0	.110	.054	.015	.109	.054	.015	.105	.053	.015	.102	.052	.015	.100	.051	.015			
9.0	.102	.049	.014	.101	.049	.014	.098	.048	.014	.095	.048	.014	.092	.047	.014			
10.0	.095	.046	.013	.094	.045	.013	.091	.045	.013	.089	.044	.012	.086	.043	.012			

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.098	.098	.098	.084	.084	.084	.057	.057	.057	.033	.033	.033	.011	.011	.011	
1.0	.097	.080	.064	.083	.068	.055	.057	.047	.038	.033	.027	.022	.010	.009	.007	
2.0	.096	.068	.044	.082	.058	.038	.056	.040	.027	.032	.023	.016	.010	.008	.005	
3.0	.093	.059	.032	.079	.051	.028	.055	.035	.020	.031	.021	.012	.010	.007	.004	
4.0	.089	.053	.025	.076	.046	.022	.052	.032	.015	.030	.019	.009	.010	.006	.003	
5.0	.085	.048	.020	.073	.041	.018	.050	.029	.013	.029	.017	.007	.009	.006	.002	
6.0	.080	.044	.017	.069	.038	.015	.048	.026	.011	.028	.016	.006	.009	.005	.002	
7.0	.076	.040	.015	.066	.035	.013	.045	.024	.009	.026	.014	.005	.009	.005	.002	
8.0	.073	.037	.013	.062	.032	.011	.043	.023	.008	.025	.013	.005	.008	.004	.002	
9.0	.069	.035	.011	.059	.030	.010	.041	.021	.007	.024	.012	.004	.008	.004	.001	
10.0	.065	.032	.010	.056	.028	.009	.039	.020	.006	.023	.012	.004	.007	.004	.001	

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:K-LITE
 Test Date:03 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:0.0530A P:11.932W PF:0.9770 Freq:50.00Hz Lamp Flux:1738.8x1 lm										
NAME: ZEDO - SURFACE MOUNTING					TYPE:PATH FINDERS			WEIGHT:		
SPEC.:WW, NICHIA					DIM.: 220 x 40 x 95			SERIAL No.:4869		
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	15.1	17.0	15.4	17.2	17.5	23.1	25.0	23.4	25.2	25.4
3H	16.4	18.2	16.7	18.4	18.7	26.6	28.3	26.9	28.6	28.9
4H	16.8	18.5	17.2	18.8	19.1	28.4	30.1	28.8	30.4	30.7
6H	17.1	18.7	17.4	19.0	19.3	30.4	32.0	30.8	32.3	32.6
8H	17.1	18.7	17.5	19.0	19.3	30.4	32.0	30.8	32.3	32.6
12H	17.1	18.6	17.5	18.9	19.2	30.4	31.9	30.7	32.2	32.5
4H 2H	19.5	21.1	19.8	21.4	21.7	23.7	25.4	24.0	25.7	25.9
3H	21.3	22.8	21.6	23.1	23.4	27.5	29.0	27.9	29.3	29.6
4H	22.0	23.4	22.4	23.7	24.0	29.5	30.9	29.9	31.3	31.6
6H	22.3	23.6	22.8	24.0	24.3	31.7	33.0	32.2	33.4	33.8
8H	22.4	23.6	22.8	24.0	24.4	31.8	33.0	32.2	33.3	33.7
12H	22.4	23.5	22.8	23.9	24.3	31.7	32.8	32.2	33.2	33.6
8H 4H	24.7	25.8	25.1	26.2	26.6	29.9	31.1	30.3	31.4	31.8
6H	25.6	26.5	26.0	27.0	27.4	32.3	33.3	32.8	33.8	34.2
8H	25.8	26.7	26.3	27.1	27.6	32.4	33.3	32.9	33.7	34.2
12H	25.9	26.6	26.3	27.1	27.6	32.4	33.2	32.9	33.6	34.1
12H 4H	25.4	26.5	25.8	26.9	27.3	29.9	31.0	30.3	31.4	31.8
6H	26.6	27.5	27.1	27.9	28.4	32.4	33.3	32.9	33.8	34.2
8H	26.9	27.7	27.4	28.2	28.7	32.5	33.3	33.0	33.7	34.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.2					+ 0.6 / - 0.5				
2.0H	+ 0.5 / - 0.5					+ 0.6 / - 0.9				

CIE Pub.117, 1739 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.9$)
 Area: 0.1 m²

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:K-LITE
 Test Date:03 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:

UTILIZATION FACTORS TABLE

Test:U:230.50V I:0.0530A P:11.932W PF:0.9770 Freq:50.00Hz Lamp Flux:1738.8x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4869
MFR.: K-LITE	SUR.:	Shielding Angle:

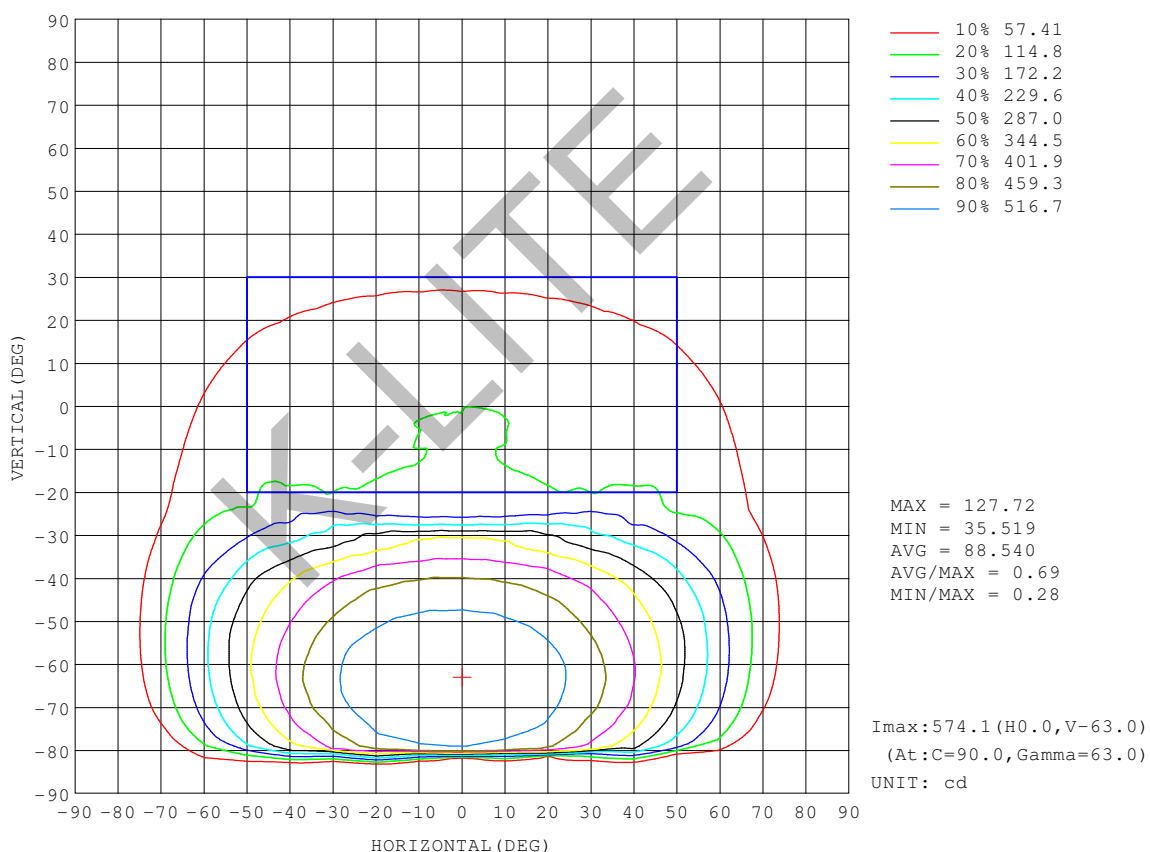
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	23	16	11	22	16	11	22	15	11	7
0.80	28	20	15	27	20	15	26	19	15	11
1.00	32	24	20	31	24	19	30	25	19	14
1.25	36	29	24	35	28	24	33	27	23	18
1.50	39	32	27	38	31	27	36	30	26	21
2.00	43	37	33	42	37	32	40	35	31	26
2.50	46	41	36	45	40	36	43	38	35	30
3.00	49	44	40	47	43	39	45	41	38	33
4.00	52	47	44	50	46	43	48	45	42	37
5.00	53	50	47	52	49	46	49	47	44	39
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNM = 1.25		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:03 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:0.0530A P:11.932W PF:0.9770 Freq:50.00Hz Lamp Flux:1738.8x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4869
MFR.: K-LITE	SUR.:	Shielding Angle:

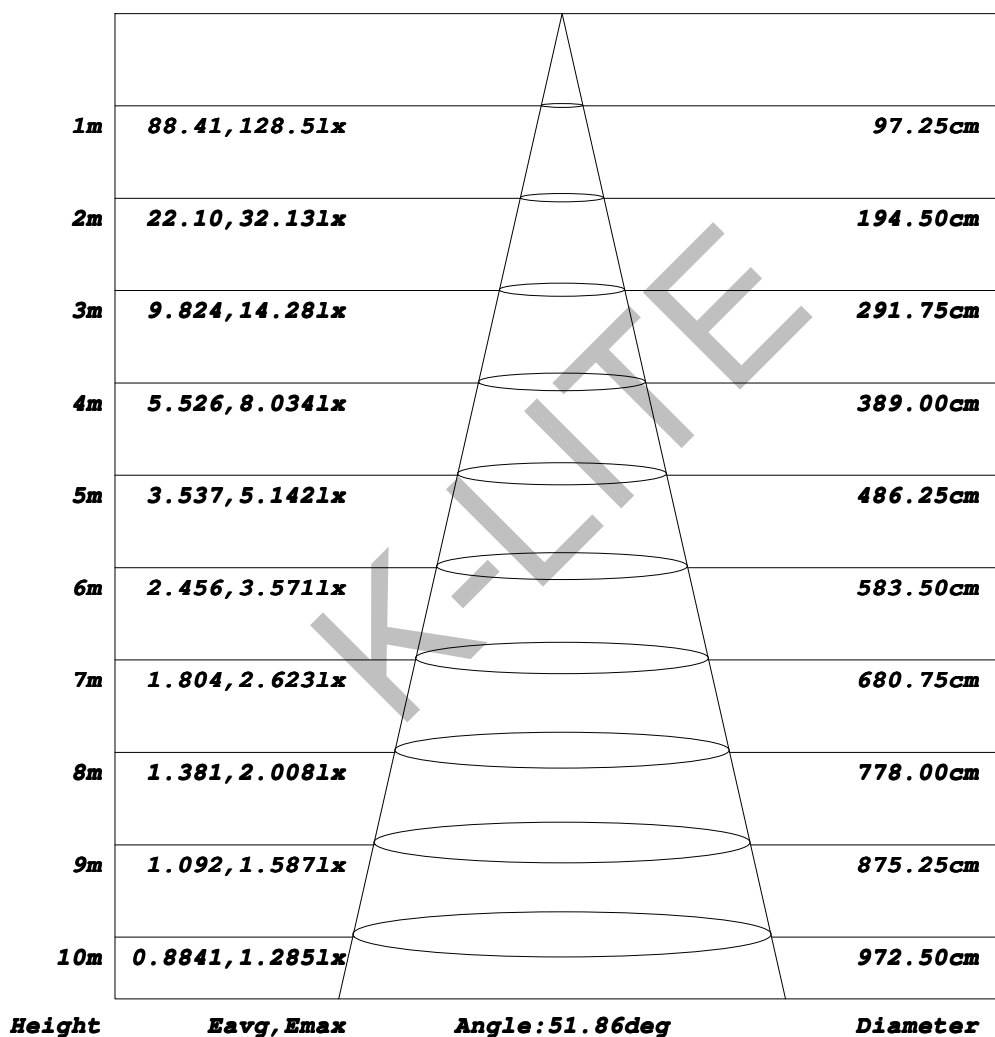


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:03 September 2022

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:0.0530A P:11.932W PF:0.9770 Freq:50.00Hz Lamp Flux:1738.8x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4869
MFR.: K-LITE	SUR.:	Shielding Angle:

Flux out:66.07 lm


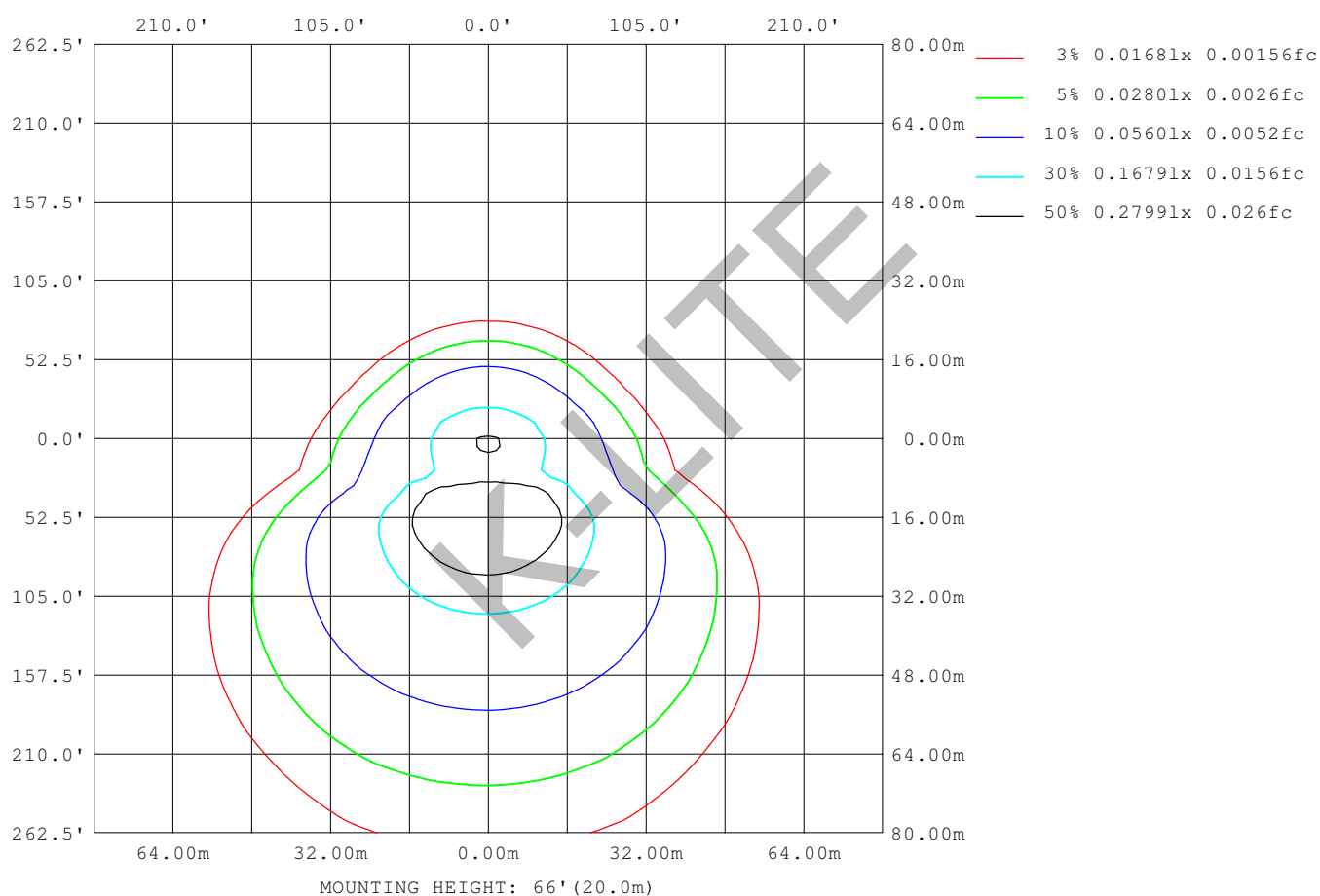
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: K-LITE
Test Date: 03 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:0.0530A P:11.932W PF:0.9770 Freq:50.00Hz Lamp Flux:1738.8x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4869
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: 03 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:0.0530A P:11.932W PF:0.9770 Freq:50.00Hz Lamp Flux:1738.8x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:WW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4869
MFR.: K-LITE	SUR.:	Shielding Angle:

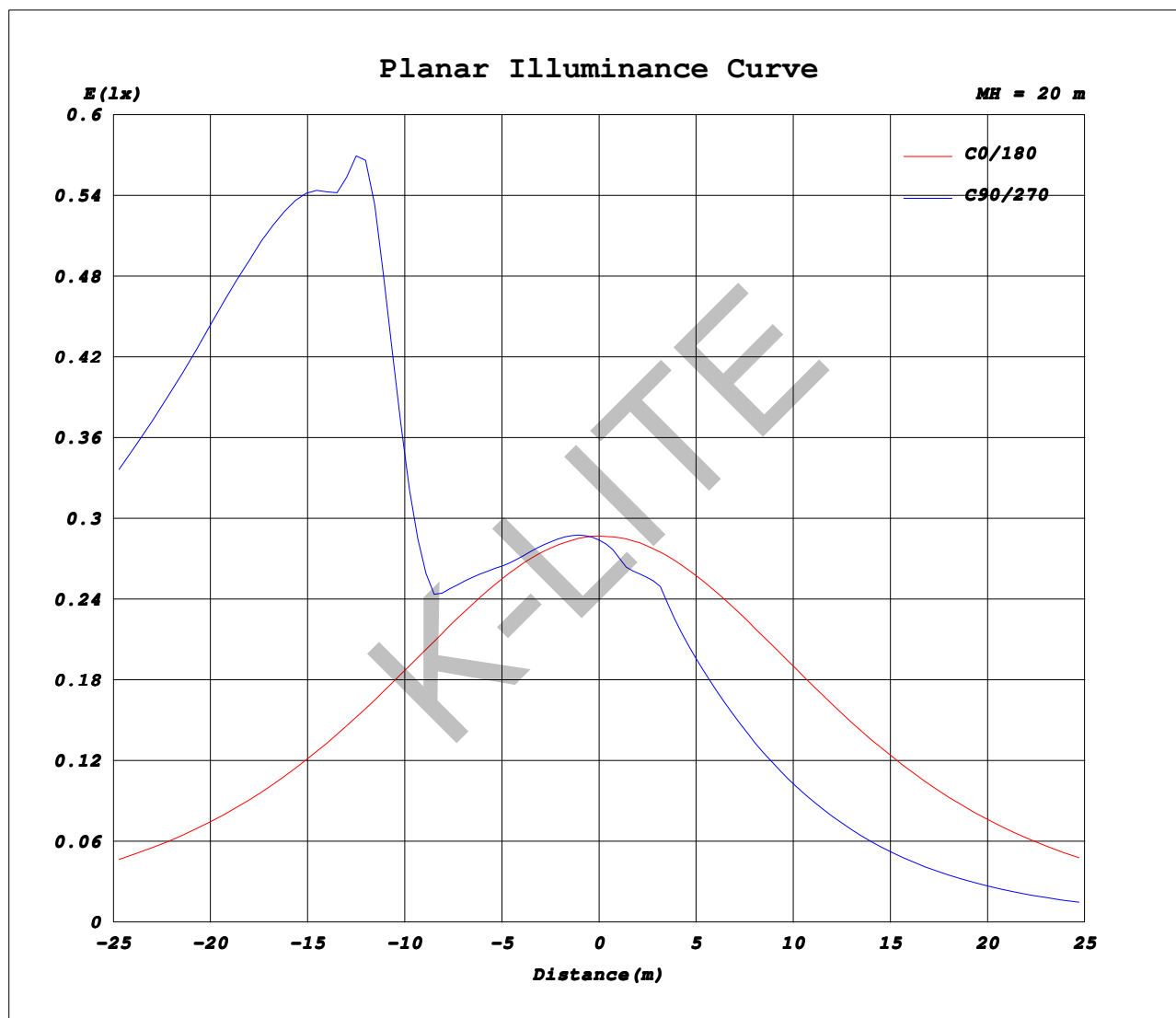
AvgL	cd/m2
L_0~180 (65) av	1156
L_0~180 (75) av	1055
L_0~180 (85) av	693
L_90~270 (65) av	6949
L_90~270 (75) av	10674
L_90~270 (85) av	475
L_45 (65) av	5078
L_45 (75) av	7366
L_45 (85) av	1391

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:03 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:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: K-LITE
Test Date: 03 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:

```

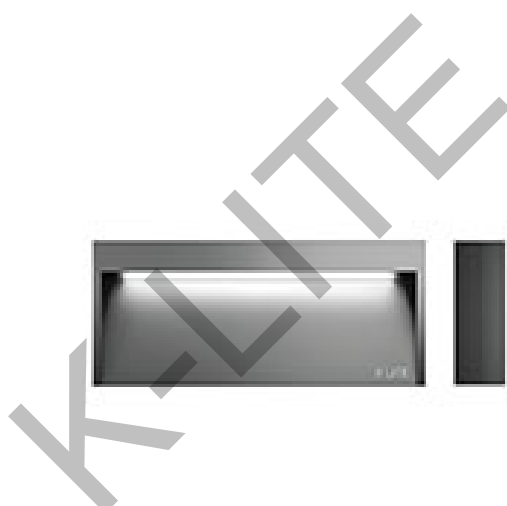
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:1.852m [K=1.0000]
Remarks:

```

```

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:

```



Light Output Ratio:	45.6%	
Luminaire Power:	11.87 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: K-LITE
Test Date: 03 September 2022

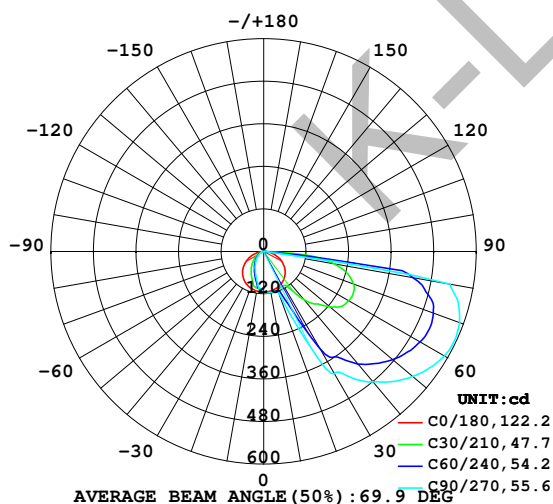
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 1.852m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

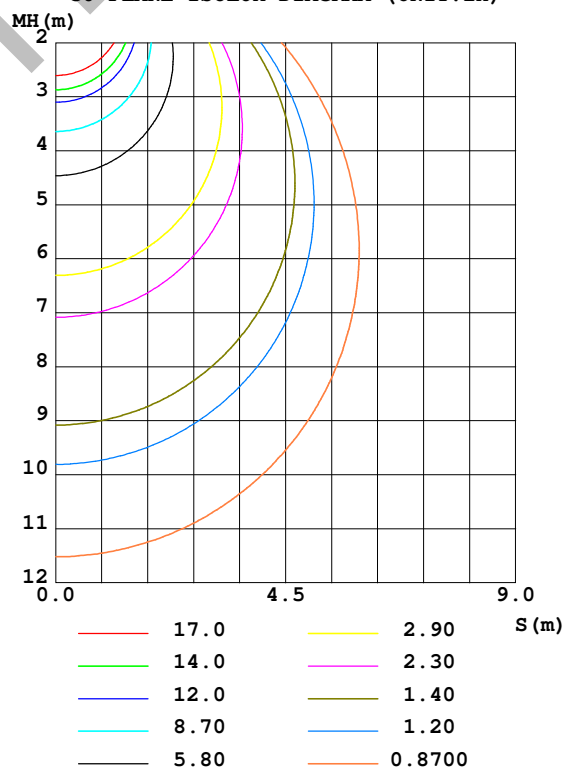
Test:U:230.53V I:0.0528A P:11.872W PF:0.9757 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4868
MFR.: K-LITE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 79.57 lm/W
MODEL	KL-2767	I _{max} (cd)	594.3	S/MH (C0/180)	1.33	
NOMINAL POWER (W)	12	LOR (%)	45.6	S/MH (C90/270)	0.72	
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	944.63	η UP, DN (C0-180)	0.0, 40.7	
NOMINAL FLUX (lm)	2073.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 4.8	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	230	η down (%)	45.6	CIBSE SHR MAX	1.00	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: K-LITE
Test Date: 03 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:

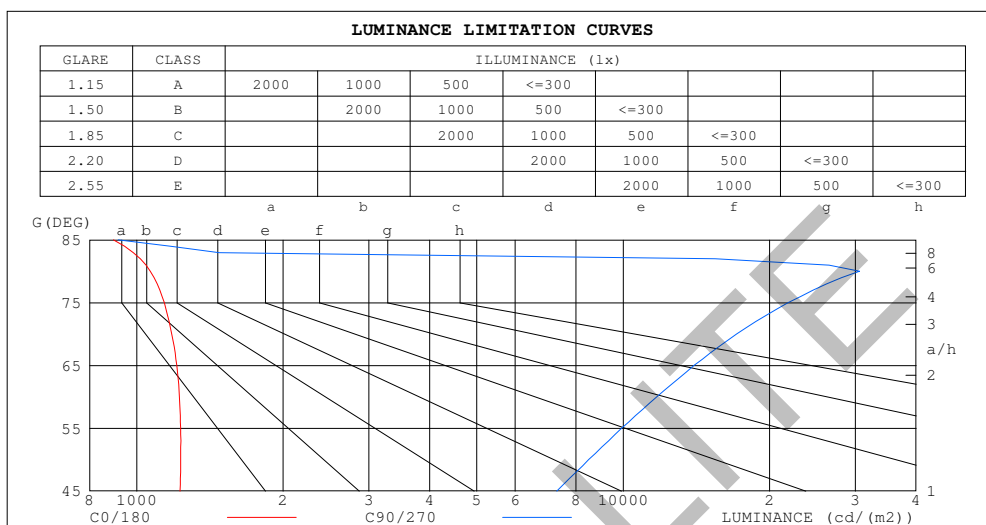
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	113.5	116.9	117.7	117.2	113.7	104.9	95.83	105.0	0- 10	10.72	10.72	1.13, 0.52
20	109.7	116.0	124.9	116.5	109.7	80.45	67.92	80.42	10- 20	29.67	40.38	4.28, 1.95
30	102.9	176.7	398.0	184.8	102.6	60.43	48.79	60.88	20- 30	55.35	95.74	10.1, 4.62
40	92.75	315.9	480.4	328.0	91.80	44.05	34.34	44.91	30- 40	101.1	196.9	20.8, 9.49
50	78.74	382.3	548.6	402.9	77.00	30.19	23.05	31.33	40- 50	142.7	339.6	36, 16.4
60	60.87	410.3	589.3	434.8	58.33	18.88	14.21	20.08	50- 60	176.3	515.9	54.6, 24.9
70	40.16	404.8	587.8	426.2	36.91	10.08	7.425	11.14	60- 70	195.3	711.2	75.3, 34.3
80	18.40	324.4	533.7	324.9	14.72	3.719	2.549	4.530	70- 80	186.3	897.5	95, 43.3
90	0.3413	0.2857	0.0388	0.0074	0	0.0002	0	0	80- 90	47.14	944.6	100, 45.6
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		

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: K-LITE
 Test Date: 03 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:230.53V I:0.0528A P:11.872W PF:0.9757 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4868
MFR.: K-LITE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	895	917
80	1065	30604
75	1139	21852
70	1181	17115
65	1209	13997
60	1224	11735
55	1231	9937
50	1232	8499
45	1227	7302

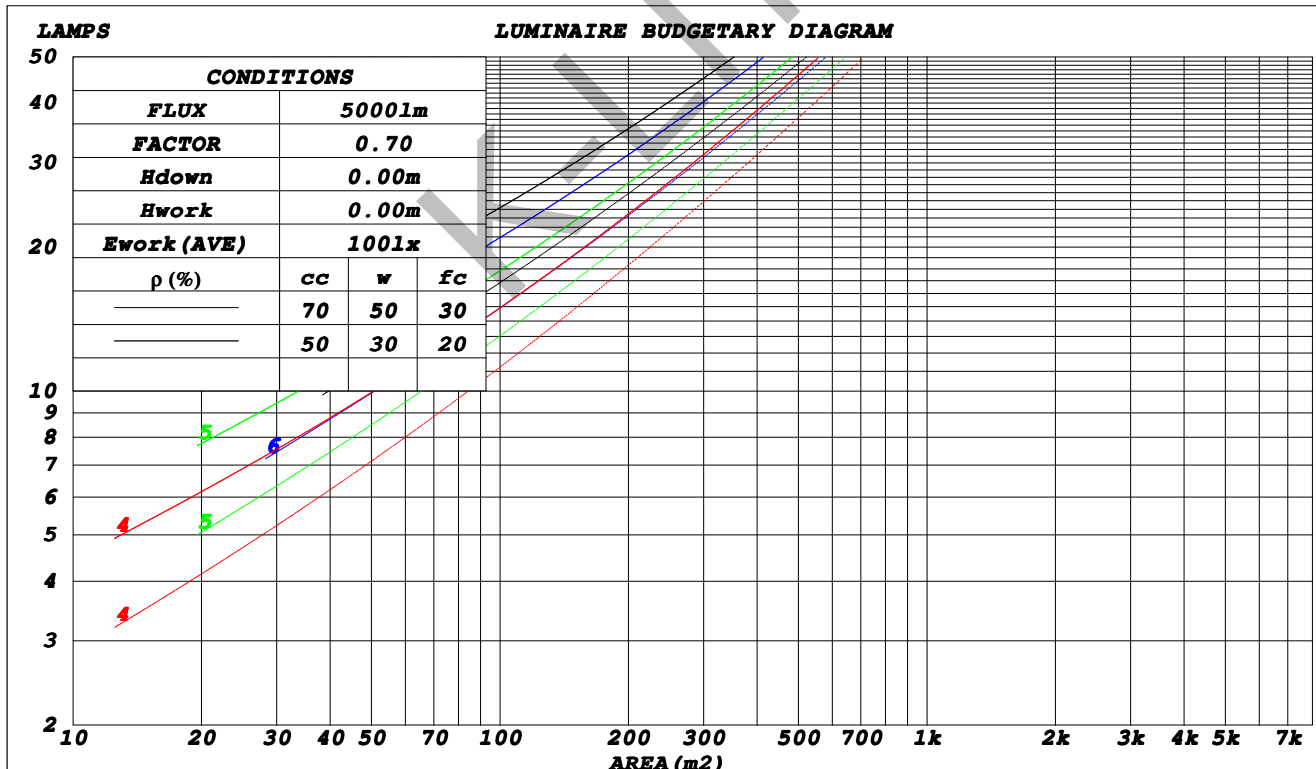
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: K-LITE
Test Date: 03 September 2022

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:230.53V I:0.0528A P:11.872W PF:0.9757 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4868
MFR.: K-LITE	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	.54	.54	.54	.53	.53	.53	.51	.51	.51	.48	.48	.48	.46	.46	.46	.46
1.0	.44	.42	.39	.43	.41	.38	.41	.39	.37	.39	.38	.36	.38	.36	.35	.34
2.0	.36	.32	.29	.35	.32	.28	.34	.30	.28	.32	.29	.27	.31	.28	.26	.25
3.0	.31	.26	.22	.30	.25	.22	.28	.24	.21	.27	.24	.21	.26	.23	.20	.19
4.0	.26	.21	.17	.25	.21	.17	.24	.20	.17	.23	.19	.16	.22	.19	.16	.15
5.0	.23	.18	.14	.22	.17	.14	.21	.17	.14	.20	.16	.13	.19	.16	.13	.12
6.0	.20	.15	.12	.19	.15	.11	.19	.14	.11	.18	.14	.11	.17	.14	.11	.10
7.0	.18	.13	.10	.17	.13	.10	.17	.12	.10	.16	.12	.09	.15	.12	.09	.08
8.0	.16	.11	.08	.16	.11	.08	.15	.11	.08	.14	.11	.08	.14	.10	.08	.07
9.0	.14	.10	.07	.14	.10	.07	.14	.10	.07	.13	.10	.07	.13	.09	.07	.06
10.0	.13	.09	.06	.13	.09	.06	.12	.09	.06	.12	.09	.06	.12	.08	.06	.05



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: K-LITE
 Test Date: 03 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:230.53V I:0.0528A P:11.872W PF:0.9757 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4868
MFR.: K-LITE	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.199	.113	.036	.196	.112	.035	.190	.109	.035	.184	.106	.034	.178	.103	.033		
2.0	.179	.098	.030	.176	.097	.030	.170	.095	.029	.165	.092	.029	.160	.090	.029		
3.0	.159	.085	.025	.156	.084	.025	.151	.082	.025	.146	.080	.025	.142	.079	.024		
4.0	.142	.074	.022	.140	.073	.022	.135	.072	.021	.131	.070	.021	.127	.069	.021		
5.0	.128	.065	.019	.126	.065	.019	.122	.063	.019	.118	.062	.018	.114	.061	.018		
6.0	.116	.058	.017	.114	.058	.017	.110	.057	.016	.107	.056	.016	.104	.055	.016		
7.0	.106	.052	.015	.104	.052	.015	.101	.051	.015	.098	.050	.015	.095	.049	.015		
8.0	.098	.048	.013	.096	.047	.013	.093	.047	.013	.090	.046	.013	.088	.045	.013		
9.0	.090	.044	.012	.089	.043	.012	.086	.043	.012	.084	.042	.012	.082	.041	.012		
10.0	.084	.040	.011	.083	.040	.011	.080	.039	.011	.078	.039	.011	.076	.038	.011		

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.087	.087	.087	.074	.074	.074	.051	.051	.051	.029	.029	.029	.009	.009	.009		
1.0	.086	.071	.057	.074	.061	.049	.050	.042	.034	.029	.024	.020	.009	.008	.006		
2.0	.085	.060	.039	.072	.052	.034	.050	.036	.024	.029	.021	.014	.009	.007	.005		
3.0	.082	.052	.029	.070	.045	.025	.048	.031	.017	.028	.018	.010	.009	.006	.003		
4.0	.078	.047	.022	.067	.040	.019	.046	.028	.014	.027	.016	.008	.009	.005	.003		
5.0	.075	.042	.018	.064	.036	.016	.044	.025	.011	.026	.015	.007	.008	.005	.002		
6.0	.071	.039	.015	.061	.033	.013	.042	.023	.009	.024	.014	.006	.008	.004	.002		
7.0	.068	.035	.013	.058	.031	.011	.040	.022	.008	.023	.013	.005	.008	.004	.002		
8.0	.064	.033	.011	.055	.029	.010	.038	.020	.007	.022	.012	.004	.007	.004	.001		
9.0	.061	.031	.010	.052	.027	.009	.036	.019	.006	.021	.011	.004	.007	.004	.001		
10.0	.058	.029	.009	.050	.025	.008	.035	.017	.006	.020	.010	.003	.007	.003	.001		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:03 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:230.53V I:0.0528A P:11.872W PF:0.9757 Freq:49.99Hz Lamp Flux:2073.6x1 lm										
NAME: ZEDO - SURFACE MOUNTING					TYPE:PATH FINDERS			WEIGHT:		
SPEC.:NW, NICHIA					DIM.: 220 x 40 x 95			SERIAL No.:4868		
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	16.8	15.2	17.0	17.3	22.5	24.4	22.8	24.6	24.8
3H	16.2	18.0	16.5	18.2	18.5	26.0	27.8	26.3	28.0	28.3
4H	16.7	18.3	17.0	18.6	18.9	27.9	29.5	28.2	29.8	30.1
6H	16.9	18.5	17.3	18.8	19.1	29.9	31.5	30.3	31.8	32.1
8H	17.0	18.5	17.3	18.8	19.2	30.2	31.7	30.5	32.0	32.3
12H	17.0	18.5	17.4	18.8	19.1	30.1	31.6	30.5	31.9	32.2
4H 2H	19.0	20.7	19.3	21.0	21.2	23.1	24.8	23.4	25.1	25.3
3H	20.8	22.3	21.2	22.7	23.0	26.9	28.4	27.3	28.7	29.1
4H	21.6	23.0	22.0	23.3	23.6	29.0	30.4	29.4	30.7	31.1
6H	22.0	23.2	22.4	23.6	24.0	31.4	32.6	31.8	33.0	33.4
8H	22.1	23.3	22.5	23.6	24.0	31.6	32.8	32.0	33.2	33.6
12H	22.1	23.2	22.5	23.6	24.0	31.6	32.7	32.0	33.1	33.5
8H 4H	24.3	25.4	24.7	25.8	26.2	29.4	30.5	29.8	30.9	31.3
6H	25.2	26.2	25.7	26.6	27.1	32.1	33.1	32.5	33.5	33.9
8H	25.5	26.4	26.0	26.9	27.3	32.4	33.3	32.9	33.7	34.2
12H	25.7	26.4	26.1	26.9	27.4	32.4	33.2	32.9	33.6	34.1
12H 4H	25.1	26.2	25.5	26.6	27.0	29.4	30.5	29.8	30.9	31.3
6H	26.4	27.3	26.9	27.7	28.2	32.2	33.0	32.6	33.5	33.9
8H	26.9	27.7	27.4	28.2	28.6	32.6	33.4	33.1	33.8	34.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.1					+ 0.3 / - 0.4				
2.0H	+ 0.2 / - 0.3					+ 0.9 / - 0.7				

CIE Pub.117, 2074 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.5$)
 Area: 0.1 m²

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:K-LITE
 Test Date:03 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:

UTILIZATION FACTORS TABLE

Test:U:230.53V I:0.0528A P:11.872W PF:0.9757 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4868
MFR.: K-LITE	SUR.:	Shielding Angle:

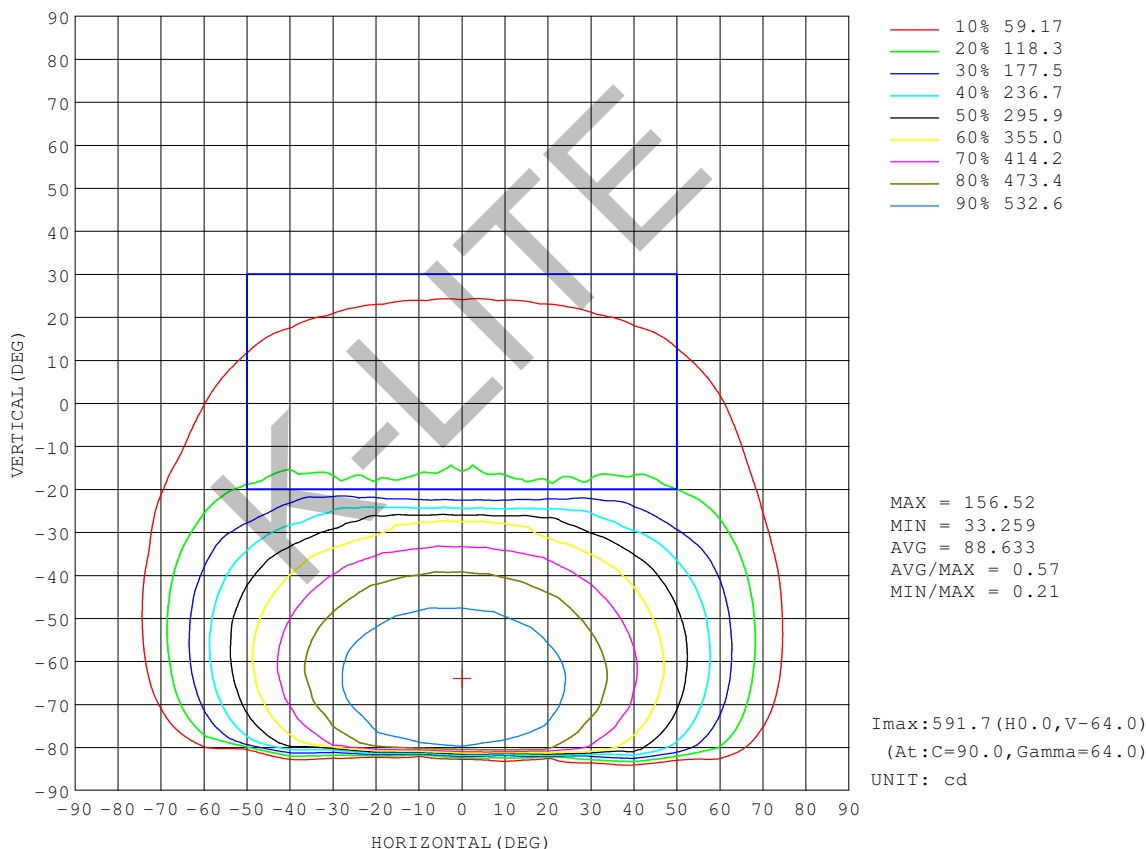
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	20	14	10	20	14	10	19	14	10	7
0.80	25	18	14	24	18	14	23	17	14	10
1.00	28	22	18	28	22	17	27	23	17	13
1.25	32	26	21	31	25	21	30	24	21	16
1.50	35	28	24	34	28	24	32	27	23	19
2.00	38	33	29	37	32	29	36	31	28	23
2.50	41	36	32	40	35	32	38	34	31	26
3.00	43	39	35	42	38	35	40	36	34	29
4.00	46	42	39	44	41	38	42	39	37	32
5.00	47	44	41	46	43	41	44	41	39	35
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: K-LITE
Test Date: 03 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:230.53V I:0.0528A P:11.872W PF:0.9757 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4868
MFR.: K-LITE	SUR.:	Shielding Angle:

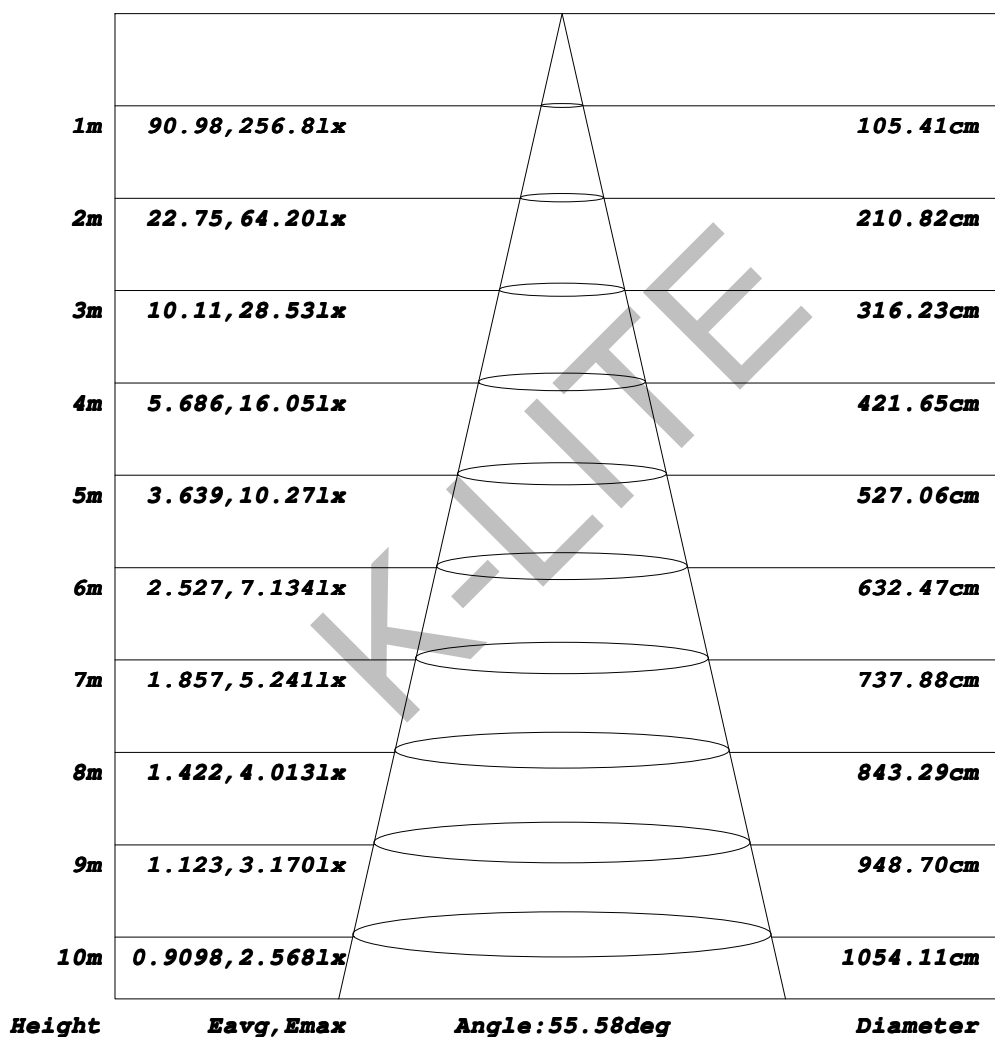


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:K-LITE
Test Date:03 September 2022

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:230.53V I:0.0528A P:11.872W PF:0.9757 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4868
MFR.: K-LITE	SUR.:	Shielding Angle:

Flux out:80.81 lm


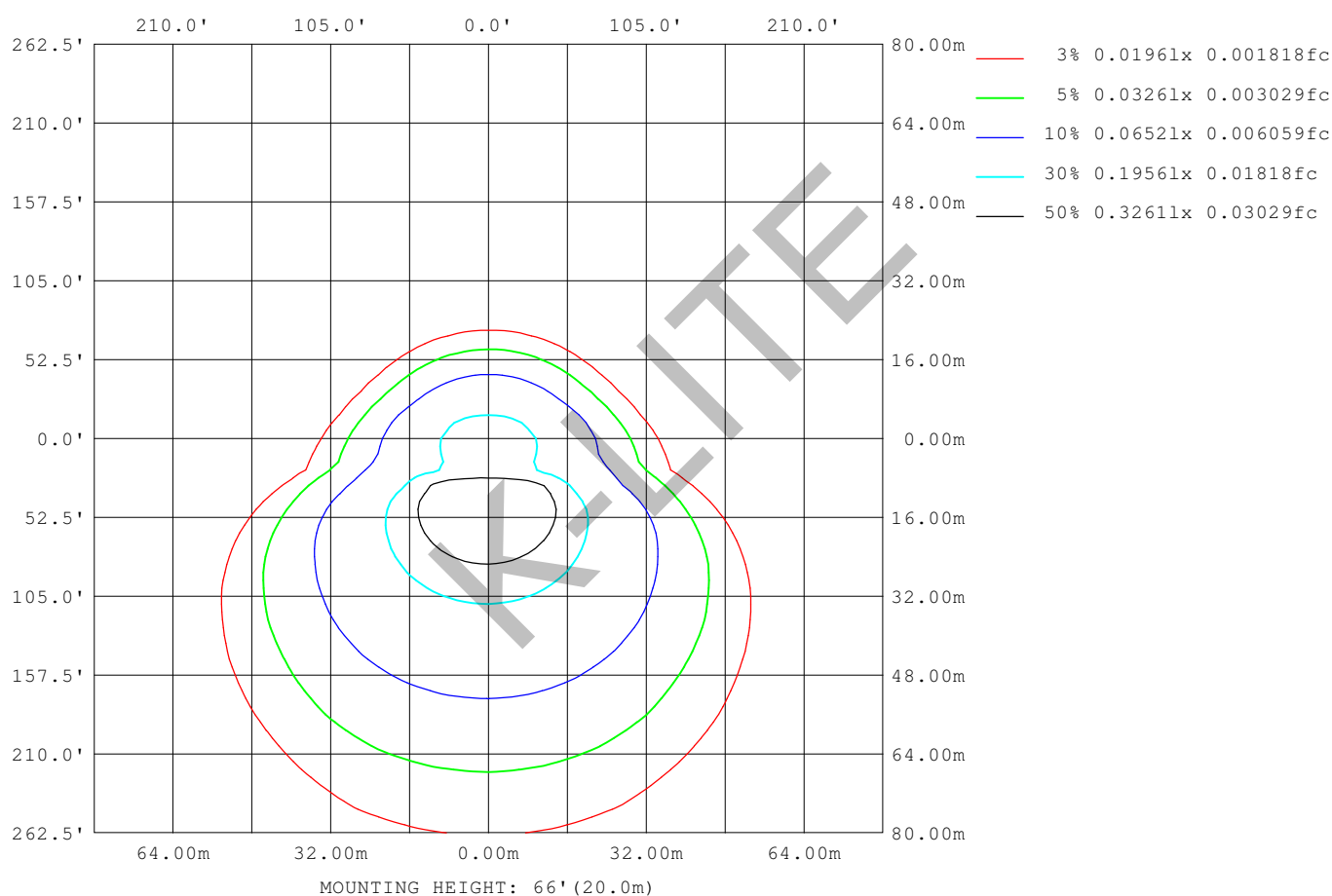
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: K-LITE
Test Date: 03 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:230.53V I:0.0528A P:11.872W PF:0.9757 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4868
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:03 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:230.53V I:0.0528A P:11.872W PF:0.9757 Freq:49.99Hz Lamp Flux:2073.6x1 lm		
NAME: ZEDO - SURFACE MOUNTING	TYPE:PATH FINDERS	WEIGHT:
SPEC.:NW, NICHIA	DIM.: 220 x 40 x 95	SERIAL No.:4868
MFR.: K-LITE	SUR.:	Shielding Angle:

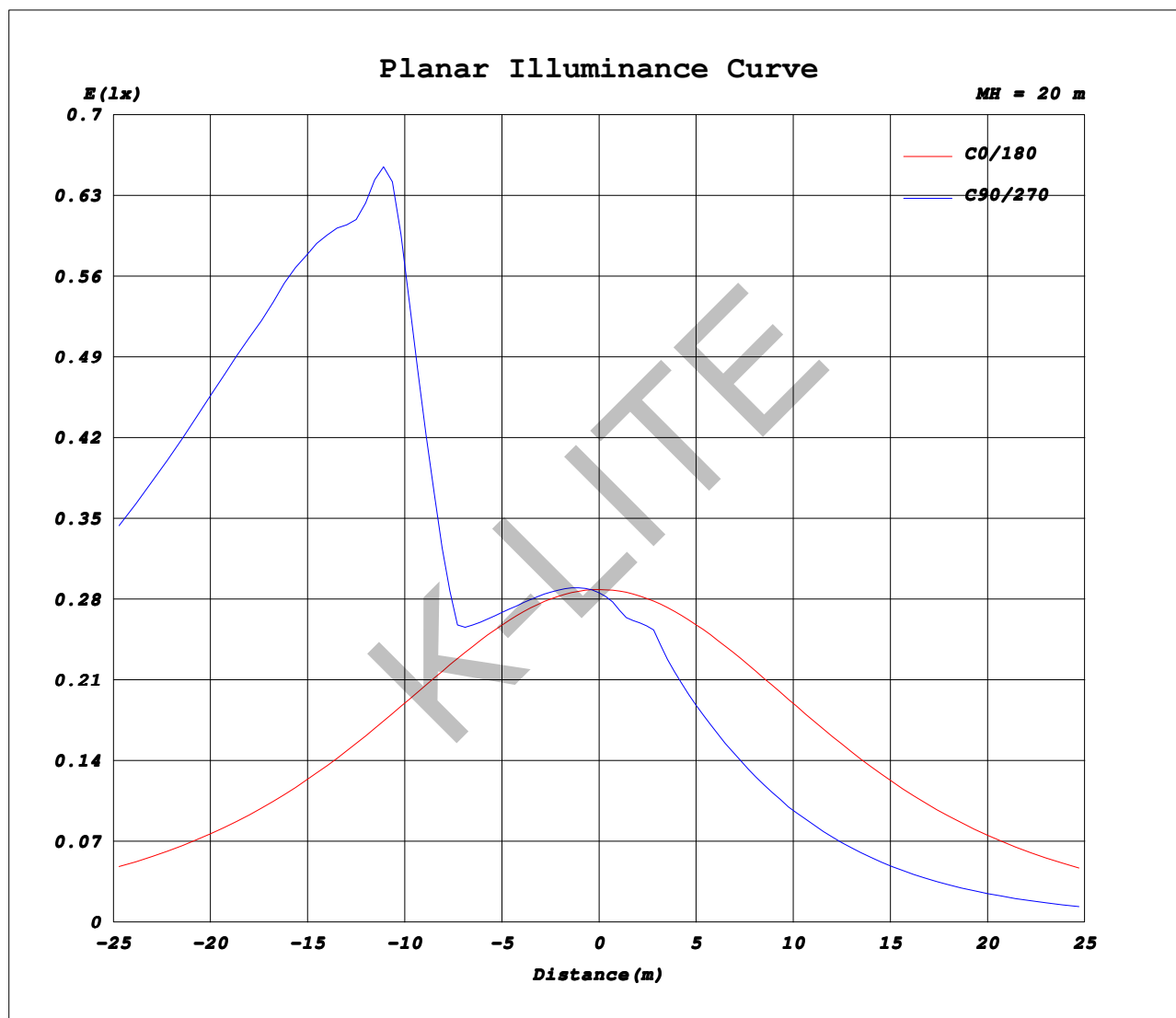
AvgL	cd/m2
L_0~180 (65) av	1167
L_0~180 (75) av	1065
L_0~180 (85) av	710
L_90~270 (65) av	7153
L_90~270 (75) av	11064
L_90~270 (85) av	506
L_45 (65) av	5238
L_45 (75) av	7576
L_45 (85) av	3531

Standard: GB/T 29293-2012

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

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: K-LITE
Test Date: 03 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:

```

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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:

```

```

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:

```