



|                     |        |                          |
|---------------------|--------|--------------------------|
| Light Output Ratio: | 64.2%  |                          |
| Luminaire Power:    | 6.84 W |                          |
| SHR Nominal:        | 1.25   | Calculated using the TM5 |
| SHR Maximum:        | 1.35   | 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**

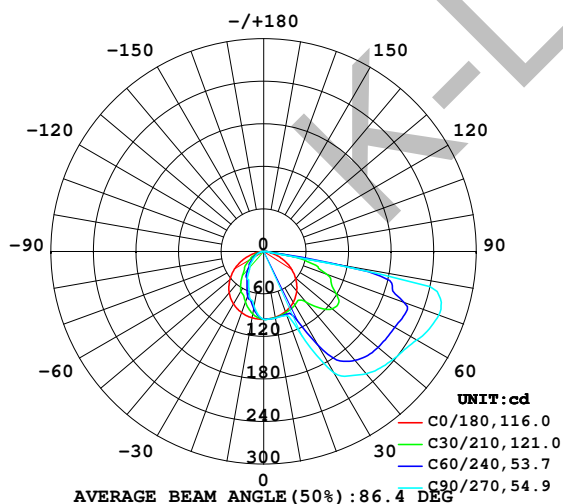
**γ Range: 0 - 90DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.417**  
**Humidity: 65.0%**  
**Test Distance: 1.852m [K=1.0000]**  
**Remarks:**

## LUMINAIRE PHOTOMETRIC TEST REPORT

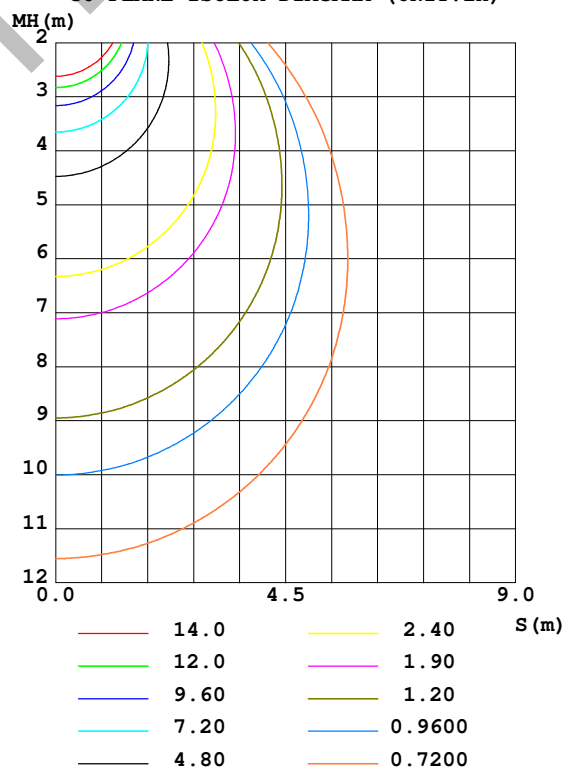
|                                                                                 |                   |                  |
|---------------------------------------------------------------------------------|-------------------|------------------|
| Test:U:230.48V I:0.0302A P:6.8401W PF:0.9824 Freq:50.00Hz Lamp Flux:725.76x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                              | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:WW, NICHIA                                                                | DIM.: Sq.105 x 38 | SERIAL No.:4870  |
| MFR.: K-LITE                                                                    | SUR.:             | Shielding Angle: |

| DATA OF LAMP      |         | PHOTOMETRIC DATA      |        |                     |           | Eff: 68.09 lm/W |
|-------------------|---------|-----------------------|--------|---------------------|-----------|-----------------|
| MODEL             | KL-2776 | I <sub>max</sub> (cd) | 263.3  | S/MH (C0/180)       | 1.33      |                 |
| NOMINAL POWER (W) | 6       | LOR (%)               | 64.2   | S/MH (C90/270)      | 0.77      |                 |
| RATED VOLTAGE (V) | 230     | TOTAL FLUX (lm)       | 465.72 | η UP, DN (C0-180)   | 0.0, 52.1 |                 |
| NOMINAL FLUX (lm) | 725.76  | CIE CLASS             | DIRECT | η UP, DN (C180-360) | 0.0, 12.1 |                 |
| LAMPS INSIDE      | 1       | η up (%)              | 0.0    | CIBSE SHR NOM       | 1.25      |                 |
| TEST VOLTAGE (V)  | 230     | η down (%)            | 64.2   | CIBSE SHR MAX       | 1.35      |                 |

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:

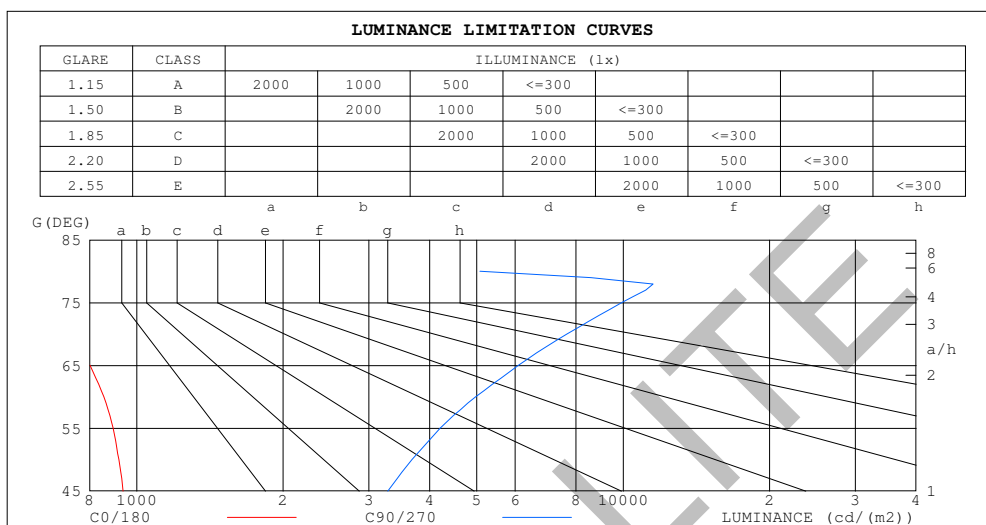
| $\gamma$ | C0                    | C45   | C90   | C135  | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 94.40                 | 95.18 | 95.53 | 95.64 | 95.18 | 85.64 | 78.51 | 84.93 | 0- 10    | 8.874       | 8.874        | 1.91,1.22  |
| 20       | 90.34                 | 93.34 | 96.10 | 94.31 | 91.90 | 70.09 | 61.04 | 69.14 | 10- 20   | 24.46       | 33.34        | 7.16,4.59  |
| 30       | 83.33                 | 103.3 | 197.1 | 106.3 | 85.72 | 54.54 | 45.34 | 53.02 | 20- 30   | 39.52       | 72.86        | 15.6,10    |
| 40       | 72.74                 | 162.4 | 225.1 | 173.2 | 76.02 | 40.80 | 30.88 | 39.60 | 30- 40   | 60.83       | 133.7        | 28.7,18.4  |
| 50       | 58.86                 | 176.5 | 237.4 | 188.7 | 62.56 | 28.71 | 21.64 | 27.63 | 40- 50   | 76.44       | 210.1        | 45.1,29    |
| 60       | 42.65                 | 173.2 | 249.7 | 187.2 | 46.35 | 19.00 | 13.61 | 18.09 | 50- 60   | 85.32       | 295.4        | 63.4,40.7  |
| 70       | 24.70                 | 148.7 | 263.0 | 162.4 | 27.85 | 10.77 | 7.899 | 10.10 | 60- 70   | 87.31       | 382.8        | 82.2,52.7  |
| 80       | 8.908                 | 84.06 | 88.42 | 108.5 | 10.24 | 4.504 | 2.838 | 4.113 | 70- 80   | 75.06       | 457.8        | 98.3,63.1  |
| 90       | 0                     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 80- 90   | 7.902       | 465.7        | 100,64.2   |
| 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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:230.48V I:0.0302A P:6.8401W PF:0.9824 Freq:50.00Hz Lamp Flux:725.76x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                              | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:WW, NICHIA                                                                | DIM.: Sq.105 x 38 | SERIAL No.:4870  |
| MFR.: K-LITE                                                                    | SUR.:             | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 498    | 580     |
| 80                | 515    | 5076    |
| 75                | 610    | 9930    |
| 70                | 725    | 7666    |
| 65                | 802    | 6088    |
| 60                | 856    | 4978    |
| 55                | 894    | 4209    |
| 50                | 919    | 3681    |
| 45                | 938    | 3282    |

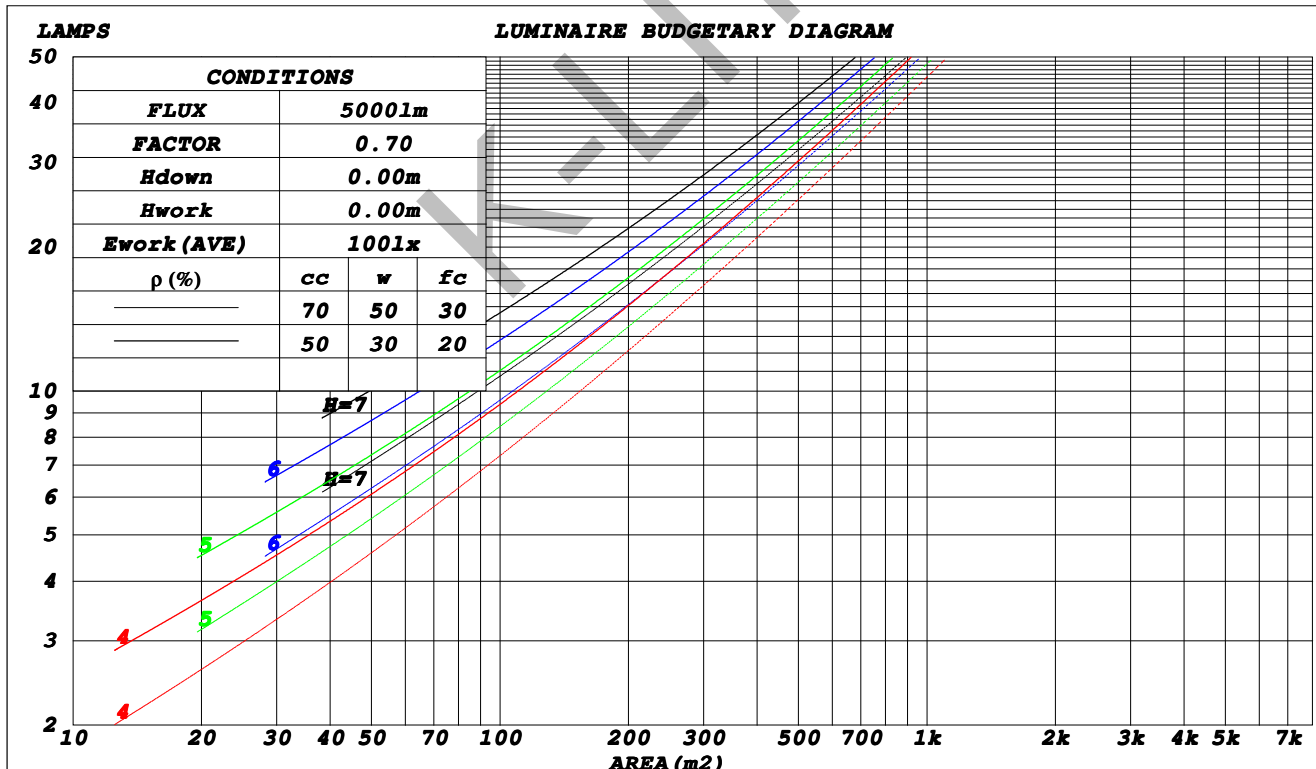
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: K-LITE  
Test Date: 03 September 2022

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:230.48V I:0.0302A P:6.8401W PF:0.9824 Freq:50.00Hz Lamp Flux:725.76x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                              | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:WW, NICHIA                                                                | DIM.: Sq.105 x 38 | SERIAL No.:4870  |
| MFR.: K-LITE                                                                    | SUR.:             | Shielding Angle: |

| $\rho_{cc}$ | 80%                   |     |     | 70% |     |     | 50%                             |     |     | 30% |     |     | 10% |     |     | 0   |
|-------------|-----------------------|-----|-----|-----|-----|-----|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| $\rho_w$    | 50%                   | 30% | 10% | 50% | 30% | 10% | 50%                             | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0   |
| $\rho_{fc}$ | 20%                   |     |     | 20% |     |     | 20%                             |     |     | 20% |     |     | 20% |     |     | 0   |
| RCR         | RCR:Room Cavity Ratio |     |     |     |     |     | Coefficients of Utilization(CU) |     |     |     |     |     |     |     |     |     |
| 0.0         | .76                   | .76 | .76 | .75 | .75 | .75 | .71                             | .71 | .71 | .68 | .68 | .68 | .65 | .65 | .65 | .64 |
| 1.0         | .64                   | .61 | .58 | .63 | .60 | .57 | .60                             | .58 | .55 | .58 | .55 | .53 | .55 | .53 | .52 | .50 |
| 2.0         | .54                   | .49 | .44 | .53 | .48 | .44 | .50                             | .46 | .43 | .48 | .45 | .42 | .46 | .43 | .41 | .39 |
| 3.0         | .46                   | .40 | .35 | .45 | .39 | .34 | .43                             | .38 | .34 | .41 | .37 | .33 | .39 | .36 | .32 | .31 |
| 4.0         | .40                   | .33 | .28 | .39 | .33 | .28 | .37                             | .32 | .27 | .36 | .31 | .27 | .34 | .30 | .27 | .25 |
| 5.0         | .35                   | .28 | .23 | .34 | .28 | .23 | .33                             | .27 | .23 | .31 | .26 | .23 | .30 | .26 | .22 | .21 |
| 6.0         | .31                   | .24 | .20 | .30 | .24 | .20 | .29                             | .23 | .19 | .28 | .23 | .19 | .27 | .22 | .19 | .17 |
| 7.0         | .28                   | .21 | .17 | .27 | .21 | .17 | .26                             | .21 | .17 | .25 | .20 | .17 | .24 | .20 | .16 | .15 |
| 8.0         | .25                   | .19 | .15 | .25 | .19 | .15 | .24                             | .18 | .15 | .23 | .18 | .14 | .22 | .18 | .14 | .13 |
| 9.0         | .23                   | .17 | .13 | .22 | .17 | .13 | .22                             | .16 | .13 | .21 | .16 | .13 | .20 | .16 | .13 | .11 |
| 10.0        | .21                   | .15 | .12 | .20 | .15 | .12 | .20                             | .15 | .12 | .19 | .15 | .11 | .19 | .14 | .11 | .10 |



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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:230.48V I:0.0302A P:6.8401W PF:0.9824 Freq:50.00Hz Lamp Flux:725.76x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                              | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:WW, NICHIA                                                                | DIM.: Sq.105 x 38 | SERIAL No.:4870  |
| MFR.: K-LITE                                                                    | SUR.:             | Shielding Angle: |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0         |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
| 1.0         | .242                  | .138 | .044 | .237 | .135 | .043 | .229                            | .131 | .042 | .221 | .127 | .041 | .213 | .124 | .040 |   |  |
| 2.0         | .226                  | .124 | .038 | .222 | .122 | .038 | .214                            | .119 | .037 | .207 | .116 | .036 | .200 | .113 | .036 |   |  |
| 3.0         | .205                  | .109 | .033 | .201 | .108 | .032 | .194                            | .105 | .032 | .188 | .103 | .032 | .182 | .101 | .031 |   |  |
| 4.0         | .186                  | .096 | .028 | .182 | .095 | .028 | .176                            | .093 | .028 | .170 | .091 | .028 | .165 | .090 | .027 |   |  |
| 5.0         | .169                  | .086 | .025 | .166 | .085 | .025 | .160                            | .083 | .025 | .155 | .082 | .024 | .150 | .080 | .024 |   |  |
| 6.0         | .154                  | .077 | .022 | .152 | .077 | .022 | .147                            | .075 | .022 | .142 | .074 | .022 | .138 | .073 | .022 |   |  |
| 7.0         | .142                  | .070 | .020 | .140 | .070 | .020 | .135                            | .068 | .020 | .131 | .067 | .020 | .127 | .066 | .019 |   |  |
| 8.0         | .131                  | .064 | .018 | .129 | .064 | .018 | .125                            | .063 | .018 | .122 | .062 | .018 | .118 | .061 | .018 |   |  |
| 9.0         | .122                  | .059 | .016 | .120 | .059 | .016 | .117                            | .058 | .016 | .113 | .057 | .016 | .110 | .056 | .016 |   |  |
| 10.0        | .114                  | .055 | .015 | .112 | .054 | .015 | .109                            | .053 | .015 | .106 | .053 | .015 | .103 | .052 | .015 |   |  |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%                                         |      |      | 30%  |      |      | 10%  |      |      | 0 |
|-------------|-----------------------|------|------|------|------|------|---------------------------------------------|------|------|------|------|------|------|------|------|---|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                         | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                                         |      |      | 20%  |      |      | 20%  |      |      | 0 |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients (CCEC) |      |      |      |      |      |      |      |      |   |
| 0.0         | .122                  | .122 | .122 | .104 | .104 | .104 | .071                                        | .071 | .071 | .041 | .041 | .041 | .013 | .013 | .013 |   |
| 1.0         | .119                  | .100 | .083 | .102 | .086 | .071 | .069                                        | .059 | .049 | .040 | .034 | .029 | .013 | .011 | .009 |   |
| 2.0         | .116                  | .084 | .058 | .099 | .073 | .050 | .068                                        | .050 | .035 | .039 | .029 | .021 | .013 | .009 | .007 |   |
| 3.0         | .112                  | .074 | .043 | .096 | .063 | .037 | .066                                        | .044 | .026 | .038 | .026 | .015 | .012 | .008 | .005 |   |
| 4.0         | .107                  | .065 | .034 | .092 | .056 | .029 | .063                                        | .039 | .021 | .037 | .023 | .012 | .012 | .008 | .004 |   |
| 5.0         | .102                  | .059 | .027 | .088 | .051 | .024 | .060                                        | .036 | .017 | .035 | .021 | .010 | .011 | .007 | .003 |   |
| 6.0         | .097                  | .054 | .023 | .083 | .047 | .020 | .058                                        | .033 | .014 | .033 | .019 | .008 | .011 | .006 | .003 |   |
| 7.0         | .092                  | .049 | .019 | .079 | .043 | .017 | .055                                        | .030 | .012 | .032 | .018 | .007 | .010 | .006 | .002 |   |
| 8.0         | .088                  | .046 | .017 | .076 | .040 | .015 | .052                                        | .028 | .010 | .030 | .016 | .006 | .010 | .005 | .002 |   |
| 9.0         | .083                  | .043 | .015 | .072 | .037 | .013 | .050                                        | .026 | .009 | .029 | .015 | .006 | .009 | .005 | .002 |   |
| 10.0        | .079                  | .040 | .013 | .068 | .035 | .012 | .047                                        | .024 | .008 | .028 | .014 | .005 | .009 | .005 | .002 |   |

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

**$\gamma$  Range: 0 - 90DEG**  
 **$\gamma$  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:230.48V I:0.0302A P:6.8401W PF:0.9824 Freq:50.00Hz Lamp Flux:725.76x1 lm |                         |             |             |             |                   |                       |             |                  |             |             |
| NAME: RADO MINI - SURFACE MOUNTING                                              |                         |             |             |             | TYPE:PATH FINDERS |                       |             | WEIGHT:          |             |             |
| SPEC.:WW, NICHIA                                                                |                         |             |             |             | DIM.: Sq.105 x 38 |                       |             | SERIAL No.:4870  |             |             |
| MFR.: K-LITE                                                                    |                         |             |             |             | SUR.:             |                       |             | Shielding Angle: |             |             |
| <b>ceiling/cavity</b>                                                           | <b>0.7</b>              | <b>0.7</b>  | <b>0.5</b>  | <b>0.5</b>  | <b>0.3</b>        | <b>0.7</b>            | <b>0.7</b>  | <b>0.5</b>       | <b>0.5</b>  | <b>0.3</b>  |
| <b>walls</b>                                                                    | <b>0.5</b>              | <b>0.3</b>  | <b>0.5</b>  | <b>0.3</b>  | <b>0.3</b>        | <b>0.5</b>            | <b>0.3</b>  | <b>0.5</b>       | <b>0.3</b>  | <b>0.3</b>  |
| <b>working plane</b>                                                            | <b>0.2</b>              | <b>0.2</b>  | <b>0.2</b>  | <b>0.2</b>  | <b>0.2</b>        | <b>0.2</b>            | <b>0.2</b>  | <b>0.2</b>       | <b>0.2</b>  | <b>0.2</b>  |
| <b>Room dimensions</b>                                                          | <b>Viewed crosswise</b> |             |             |             |                   | <b>Viewed endwise</b> |             |                  |             |             |
| <b>x = 2H y = 2H</b>                                                            | <b>15.9</b>             | <b>17.6</b> | <b>16.2</b> | <b>17.9</b> | <b>18.1</b>       | <b>22.7</b>           | <b>24.4</b> | <b>23.0</b>      | <b>24.7</b> | <b>24.9</b> |
| <b>3H</b>                                                                       | <b>17.0</b>             | <b>18.6</b> | <b>17.3</b> | <b>18.8</b> | <b>19.1</b>       | <b>26.4</b>           | <b>28.0</b> | <b>26.7</b>      | <b>28.3</b> | <b>28.5</b> |
| <b>4H</b>                                                                       | <b>17.2</b>             | <b>18.8</b> | <b>17.6</b> | <b>19.1</b> | <b>19.3</b>       | <b>28.4</b>           | <b>29.9</b> | <b>28.7</b>      | <b>30.2</b> | <b>30.5</b> |
| <b>6H</b>                                                                       | <b>17.3</b>             | <b>18.8</b> | <b>17.7</b> | <b>19.1</b> | <b>19.4</b>       | <b>29.7</b>           | <b>31.2</b> | <b>30.1</b>      | <b>31.5</b> | <b>31.8</b> |
| <b>8H</b>                                                                       | <b>17.3</b>             | <b>18.8</b> | <b>17.7</b> | <b>19.1</b> | <b>19.4</b>       | <b>29.7</b>           | <b>31.1</b> | <b>30.0</b>      | <b>31.4</b> | <b>31.7</b> |
| <b>12H</b>                                                                      | <b>17.3</b>             | <b>18.7</b> | <b>17.7</b> | <b>19.0</b> | <b>19.3</b>       | <b>29.6</b>           | <b>31.0</b> | <b>30.0</b>      | <b>31.3</b> | <b>31.6</b> |
| <b>4H 2H</b>                                                                    | <b>19.1</b>             | <b>20.6</b> | <b>19.4</b> | <b>20.9</b> | <b>21.2</b>       | <b>23.2</b>           | <b>24.8</b> | <b>23.6</b>      | <b>25.1</b> | <b>25.3</b> |
| <b>3H</b>                                                                       | <b>20.5</b>             | <b>21.9</b> | <b>20.9</b> | <b>22.2</b> | <b>22.5</b>       | <b>27.2</b>           | <b>28.5</b> | <b>27.5</b>      | <b>28.9</b> | <b>29.2</b> |
| <b>4H</b>                                                                       | <b>21.0</b>             | <b>22.3</b> | <b>21.4</b> | <b>22.6</b> | <b>22.9</b>       | <b>29.4</b>           | <b>30.6</b> | <b>29.8</b>      | <b>31.0</b> | <b>31.3</b> |
| <b>6H</b>                                                                       | <b>21.1</b>             | <b>22.3</b> | <b>21.5</b> | <b>22.6</b> | <b>23.0</b>       | <b>30.8</b>           | <b>31.9</b> | <b>31.2</b>      | <b>32.3</b> | <b>32.6</b> |
| <b>8H</b>                                                                       | <b>21.1</b>             | <b>22.2</b> | <b>21.5</b> | <b>22.6</b> | <b>23.0</b>       | <b>30.7</b>           | <b>31.8</b> | <b>31.1</b>      | <b>32.2</b> | <b>32.5</b> |
| <b>12H</b>                                                                      | <b>21.1</b>             | <b>22.1</b> | <b>21.5</b> | <b>22.5</b> | <b>22.9</b>       | <b>30.7</b>           | <b>31.7</b> | <b>31.1</b>      | <b>32.0</b> | <b>32.5</b> |
| <b>8H 4H</b>                                                                    | <b>23.4</b>             | <b>24.5</b> | <b>23.8</b> | <b>24.8</b> | <b>25.2</b>       | <b>29.6</b>           | <b>30.6</b> | <b>30.0</b>      | <b>31.0</b> | <b>31.4</b> |
| <b>6H</b>                                                                       | <b>23.7</b>             | <b>24.6</b> | <b>24.2</b> | <b>25.0</b> | <b>25.5</b>       | <b>31.0</b>           | <b>31.9</b> | <b>31.5</b>      | <b>32.3</b> | <b>32.8</b> |
| <b>8H</b>                                                                       | <b>23.7</b>             | <b>24.5</b> | <b>24.2</b> | <b>25.0</b> | <b>25.4</b>       | <b>31.0</b>           | <b>31.8</b> | <b>31.5</b>      | <b>32.2</b> | <b>32.7</b> |
| <b>12H</b>                                                                      | <b>23.7</b>             | <b>24.4</b> | <b>24.2</b> | <b>24.9</b> | <b>25.3</b>       | <b>31.0</b>           | <b>31.7</b> | <b>31.5</b>      | <b>32.1</b> | <b>32.6</b> |
| <b>12H 4H</b>                                                                   | <b>23.8</b>             | <b>24.7</b> | <b>24.2</b> | <b>25.1</b> | <b>25.5</b>       | <b>29.5</b>           | <b>30.5</b> | <b>30.0</b>      | <b>30.9</b> | <b>31.3</b> |
| <b>6H</b>                                                                       | <b>24.2</b>             | <b>24.9</b> | <b>24.6</b> | <b>25.4</b> | <b>25.8</b>       | <b>31.0</b>           | <b>31.8</b> | <b>31.5</b>      | <b>32.3</b> | <b>32.7</b> |
| <b>8H</b>                                                                       | <b>24.2</b>             | <b>24.8</b> | <b>24.6</b> | <b>25.3</b> | <b>25.8</b>       | <b>31.0</b>           | <b>31.7</b> | <b>31.5</b>      | <b>32.1</b> | <b>32.6</b> |
| <b>Variations with the observer position at spacings:</b>                       |                         |             |             |             |                   |                       |             |                  |             |             |
| <b>S = 1.0H</b>                                                                 | <b>+ 0.1 / - 0.1</b>    |             |             |             |                   | <b>+ 0.2 / - 0.2</b>  |             |                  |             |             |
| <b>1.5H</b>                                                                     | <b>+ 0.3 / - 0.2</b>    |             |             |             |                   | <b>+ 0.4 / - 0.4</b>  |             |                  |             |             |
| <b>2.0H</b>                                                                     | <b>+ 0.4 / - 0.4</b>    |             |             |             |                   | <b>+ 0.2 / - 0.4</b>  |             |                  |             |             |

CIE Pub.117, 725.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.1)  
 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:230.48V I:0.0302A P:6.8401W PF:0.9824 Freq:50.00Hz Lamp Flux:725.76x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                              | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:WW, NICHIA                                                                | DIM.: Sq.105 x 38 | SERIAL No.:4870  |
| MFR.: K-LITE                                                                    | SUR.:             | Shielding Angle: |

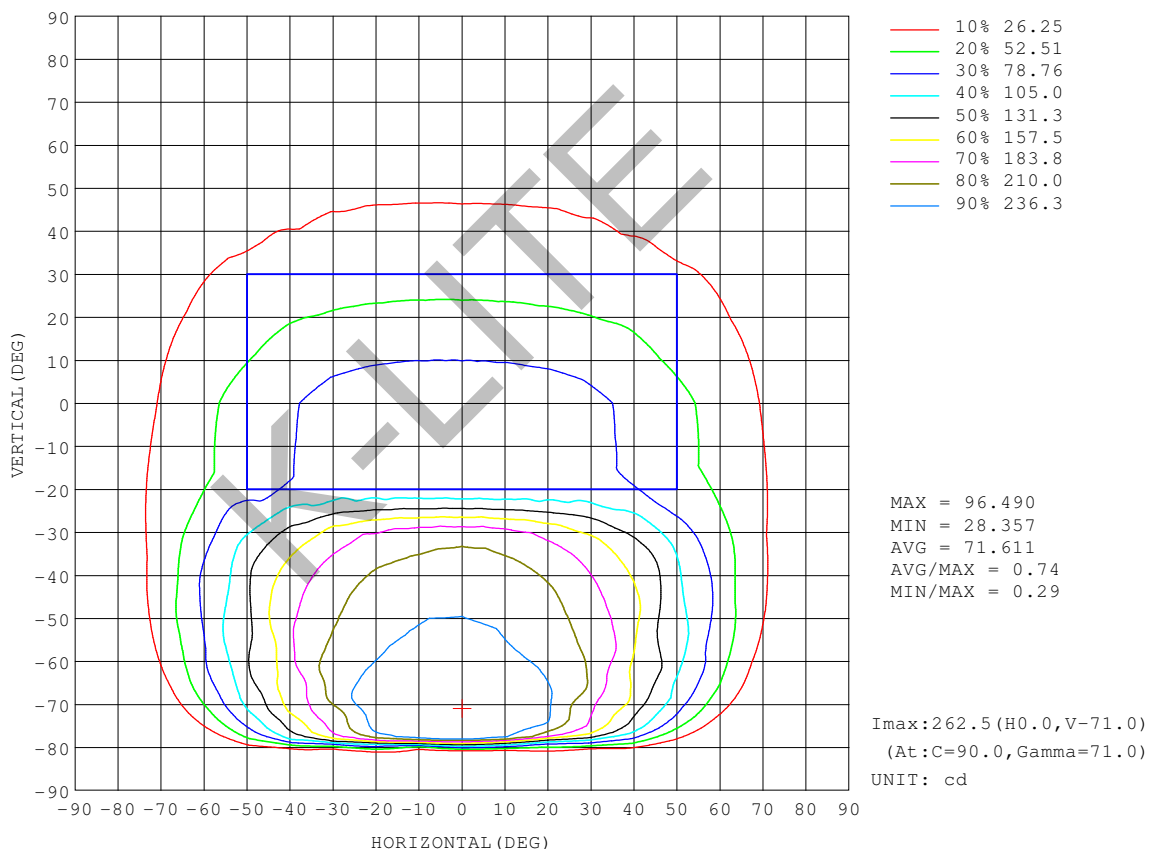
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 31                                                  | 23  | 18        | 31  | 23  | 18  | 30  | 23            | 18  | 13     |
| 0.80                             | 38                                                  | 29  | 23        | 37  | 29  | 23  | 36  | 28            | 23  | 18     |
| 1.00                             | 43                                                  | 35  | 29        | 42  | 34  | 29  | 41  | 35            | 28  | 23     |
| 1.25                             | 48                                                  | 40  | 34        | 47  | 39  | 34  | 45  | 38            | 33  | 28     |
| 1.50                             | 52                                                  | 44  | 38        | 50  | 43  | 38  | 48  | 42            | 37  | 31     |
| 2.00                             | 57                                                  | 50  | 45        | 55  | 49  | 44  | 53  | 48            | 43  | 37     |
| 2.50                             | 60                                                  | 54  | 49        | 59  | 53  | 48  | 56  | 51            | 47  | 41     |
| 3.00                             | 63                                                  | 57  | 53        | 61  | 56  | 52  | 58  | 54            | 51  | 45     |
| 4.00                             | 66                                                  | 61  | 58        | 64  | 60  | 57  | 61  | 58            | 55  | 49     |
| 5.00                             | 68                                                  | 64  | 61        | 66  | 63  | 60  | 63  | 61            | 58  | 52     |
| 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**

**$\gamma$  Range: 0 - 90DEG**  
 **$\gamma$  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:230.48V I:0.0302A P:6.8401W PF:0.9824 Freq:50.00Hz Lamp Flux:725.76x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                              | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:WW, NICHIA                                                                | DIM.: Sq.105 x 38 | SERIAL No.:4870  |
| MFR.: K-LITE                                                                    | SUR.:             | Shielding Angle: |

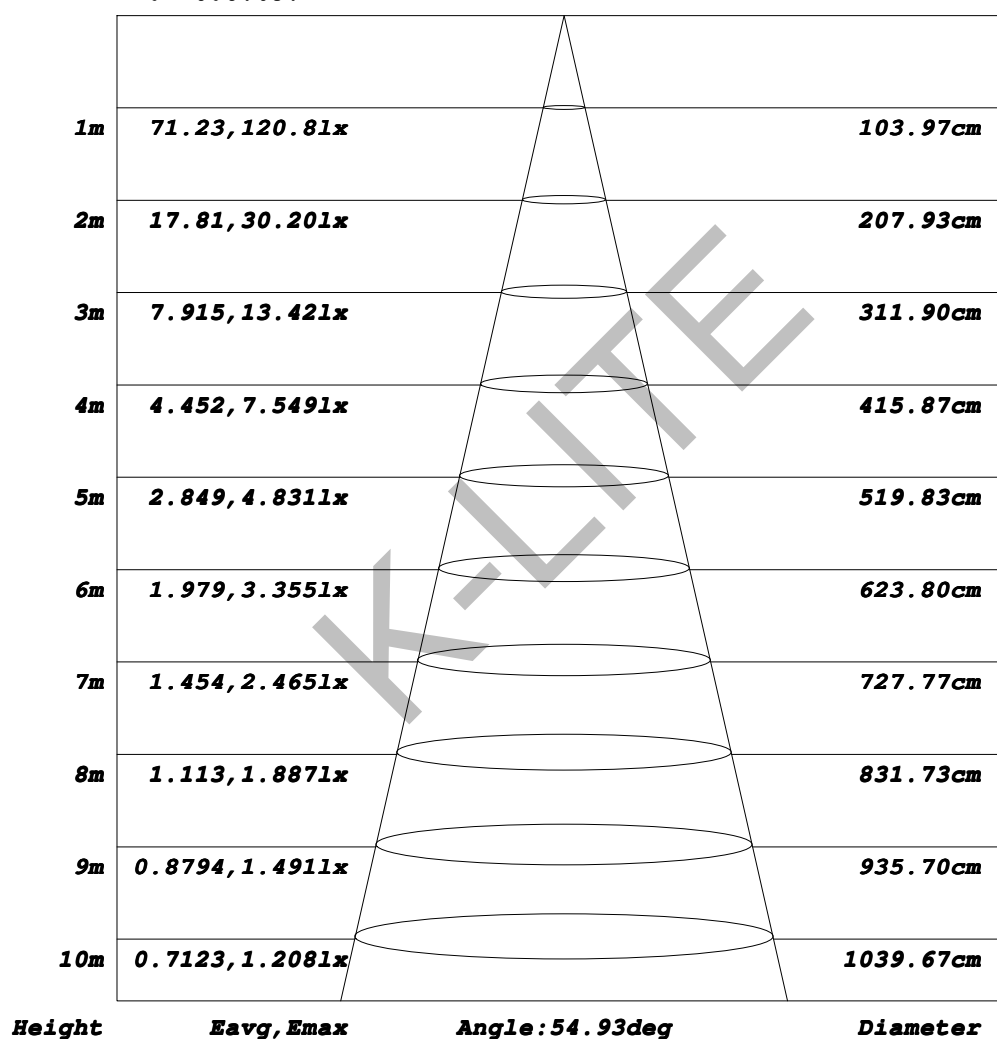


**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:K-LITE**  
**Test Date:03 September 2022**

**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:230.48V I:0.0302A P:6.8401W PF:0.9824 Freq:50.00Hz Lamp Flux:725.76x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                              | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:WW, NICHIA                                                                | DIM.: Sq.105 x 38 | SERIAL No.:4870  |
| MFR.: K-LITE                                                                    | SUR.:             | Shielding Angle: |

**Flux out:63.27 lm**


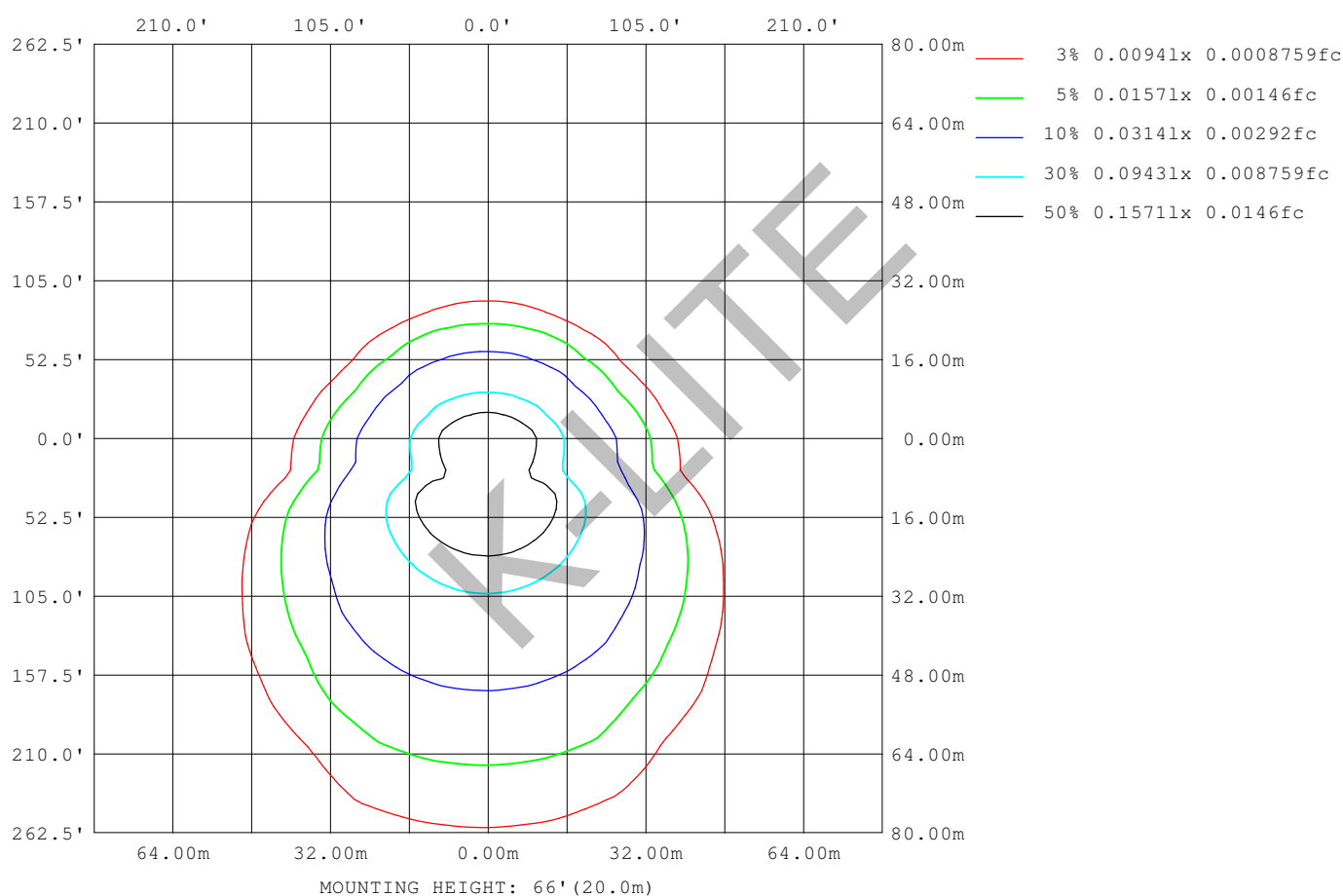
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**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:230.48V I:0.0302A P:6.8401W PF:0.9824 Freq:50.00Hz Lamp Flux:725.76x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                              | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:WW, NICHIA                                                                | DIM.: Sq.105 x 38 | SERIAL No.:4870  |
| 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

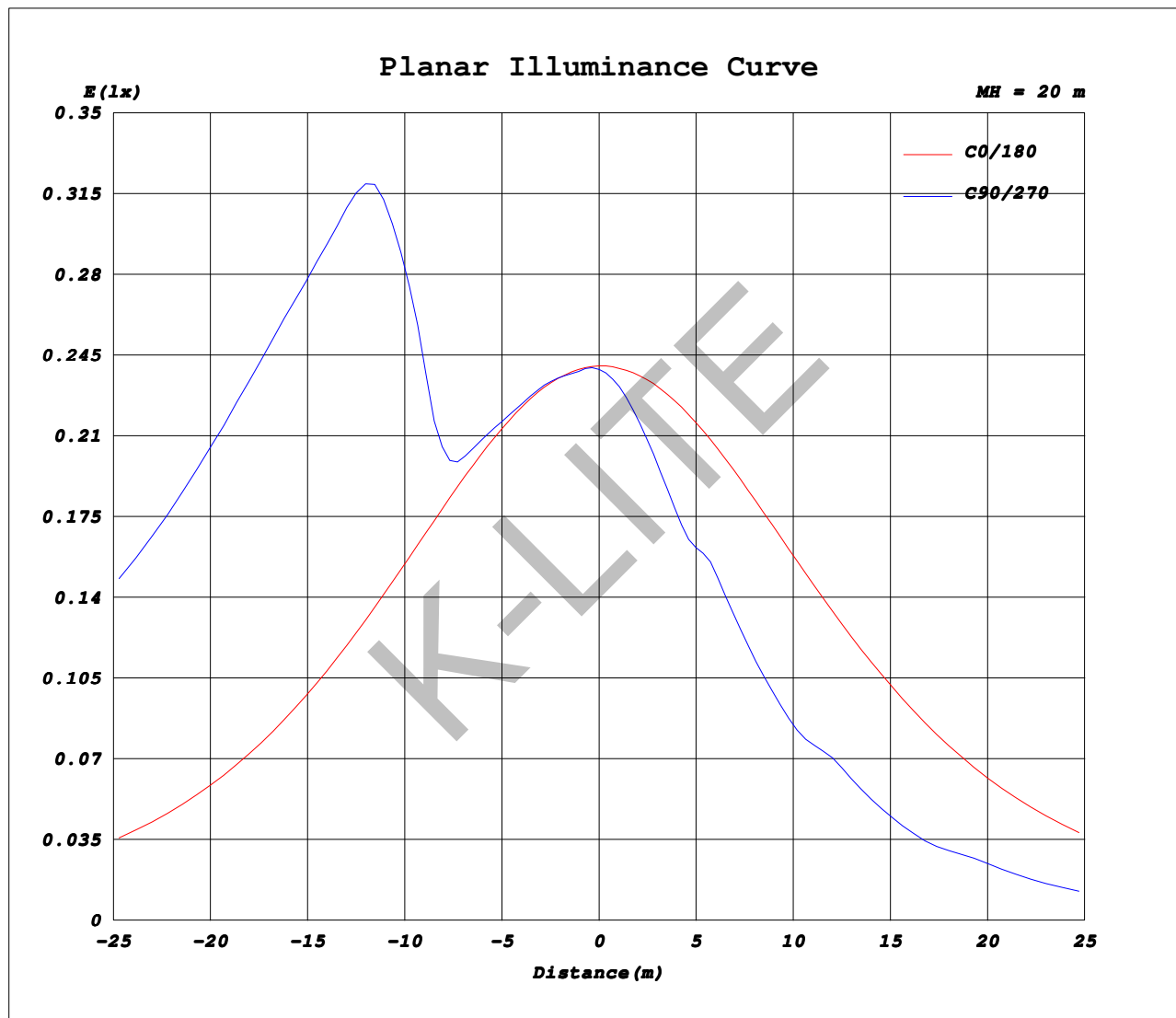
|                                                                                 |                   |                  |
|---------------------------------------------------------------------------------|-------------------|------------------|
| Test:U:230.48V I:0.0302A P:6.8401W PF:0.9824 Freq:50.00Hz Lamp Flux:725.76x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                              | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:WW, NICHIA                                                                | DIM.: Sq.105 x 38 | SERIAL No.:4870  |
| MFR.: K-LITE                                                                    | SUR.:             | Shielding Angle: |

| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 840   |
| L_0~180 (75) av  | 660   |
| L_0~180 (85) av  | 560   |
| L_90~270 (65) av | 3179  |
| L_90~270 (75) av | 5079  |
| L_90~270 (85) av | 356   |
| L_45 (65) av     | 2178  |
| L_45 (75) av     | 2844  |
| L_45 (85) av     | 415   |

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

**$\gamma$  Range:** 0 - 90DEG  
 **$\gamma$  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: | 51.3%  |                          |
| Luminaire Power:    | 6.72 W |                          |
| SHR Nominal:        | 1.25   | Calculated using the TM5 |
| SHR Maximum:        | 1.35   | 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

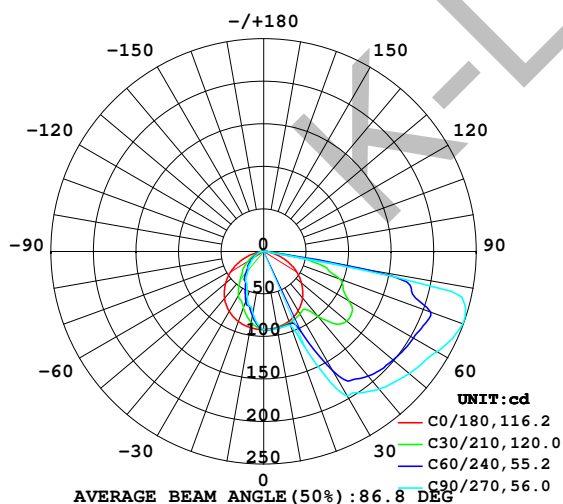
**γ Range:** 0 - 90DEG  
**γ Interval:** 1.0DEG  
**Test System:** EVERFINE GO-R5000\_V2 SYSTEM V2.00.417  
**Humidity:** 65.0%  
**Test Distance:** 1.852m [K=1.0000]  
**Remarks:**

## LUMINAIRE PHOTOMETRIC TEST REPORT

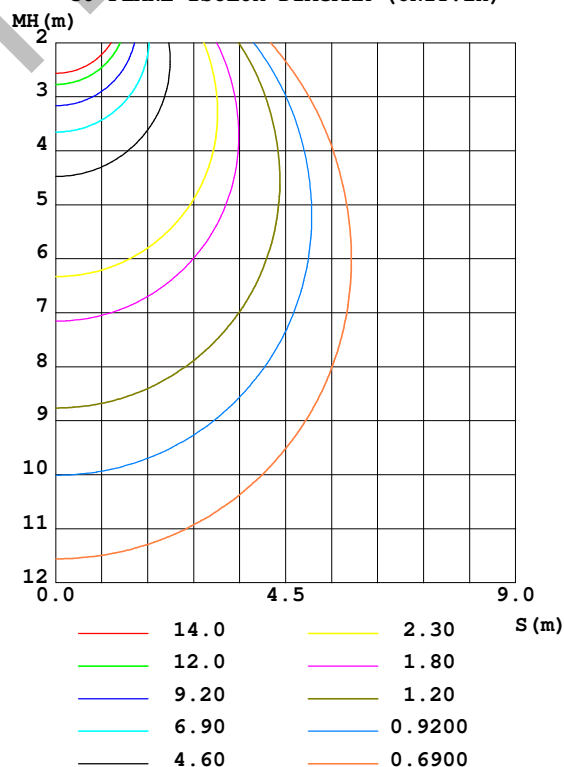
|                                                                              |                   |                  |
|------------------------------------------------------------------------------|-------------------|------------------|
| Test:U:230.47V I:0.0297A P:6.7199W PF:0.9823 Freq:50.00Hz Lamp Flux:864x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                           | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:NW, NICHIA                                                             | DIM.: Sq.105 x 38 | SERIAL No.:4871  |
| MFR.: K-LITE                                                                 | SUR.:             | Shielding Angle: |

| DATA OF LAMP      |         | PHOTOMETRIC DATA      |        |                     |           | Eff: 65.96 lm/W |
|-------------------|---------|-----------------------|--------|---------------------|-----------|-----------------|
| MODEL             | KL-2776 | I <sub>max</sub> (cd) | 249.0  | S/MH (C0/180)       | 1.31      |                 |
| NOMINAL POWER (W) | 6       | LOR (%)               | 51.3   | S/MH (C90/270)      | 0.75      |                 |
| RATED VOLTAGE (V) | 230     | TOTAL FLUX (lm)       | 443.24 | η UP, DN (C0-180)   | 0.0, 41.9 |                 |
| NOMINAL FLUX (lm) | 864     | CIE CLASS             | DIRECT | η UP, DN (C180-360) | 0.0, 9.4  |                 |
| LAMPS INSIDE      | 1       | η up (%)              | 0.0    | CIBSE SHR NOM       | 1.25      |                 |
| TEST VOLTAGE (V)  | 230     | η down (%)            | 51.3   | CIBSE SHR MAX       | 1.35      |                 |

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:

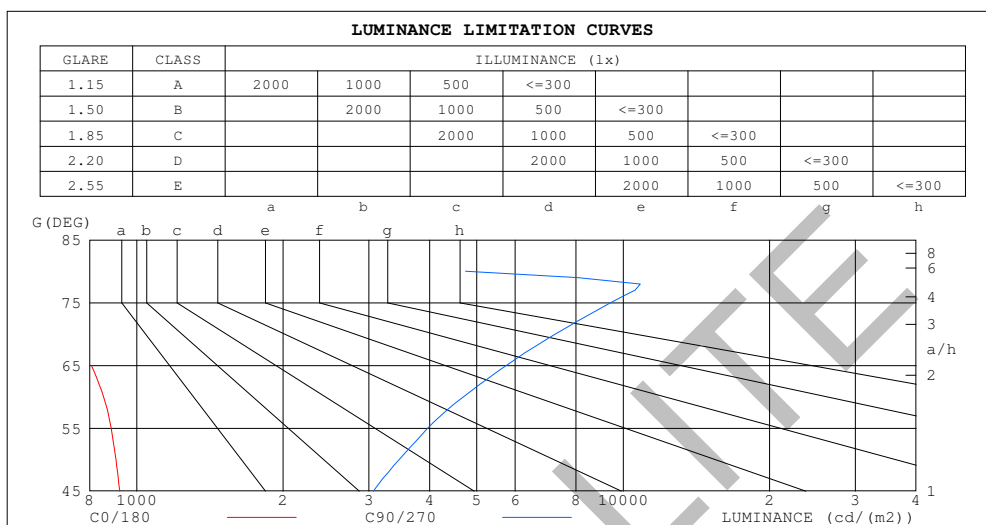
| $\gamma$ | C0                    | C45    | C90   | C135   | C180  | C225  | C270  | C315  | $\gamma$ | $\Phi$ zone | $\Phi$ total | %lum, lamp |
|----------|-----------------------|--------|-------|--------|-------|-------|-------|-------|----------|-------------|--------------|------------|
| 10       | 90.85                 | 91.82  | 92.13 | 91.97  | 90.99 | 80.56 | 73.65 | 80.66 | 0- 10    | 8.490       | 8.490        | 1.92, 0.98 |
| 20       | 87.32                 | 90.00  | 92.58 | 90.51  | 87.54 | 65.32 | 56.72 | 65.18 | 10- 20   | 23.33       | 31.82        | 7.18, 3.68 |
| 30       | 81.03                 | 107.0  | 195.9 | 106.9  | 81.30 | 49.60 | 41.98 | 50.21 | 20- 30   | 38.51       | 70.34        | 15.9, 8.14 |
| 40       | 71.25                 | 162.5  | 211.3 | 167.0  | 71.83 | 37.20 | 28.36 | 37.30 | 30- 40   | 58.60       | 128.9        | 29.1, 14.9 |
| 50       | 58.10                 | 169.0  | 223.4 | 175.4  | 58.68 | 25.90 | 19.80 | 26.11 | 40- 50   | 72.51       | 201.4        | 45.4, 23.3 |
| 60       | 42.63                 | 167.1  | 235.5 | 173.7  | 42.98 | 16.98 | 12.44 | 17.20 | 50- 60   | 80.72       | 282.2        | 63.7, 32.7 |
| 70       | 25.18                 | 143.3  | 248.9 | 152.5  | 24.94 | 9.459 | 7.167 | 9.739 | 60- 70   | 82.61       | 364.8        | 82.3, 42.2 |
| 80       | 9.026                 | 91.69  | 82.54 | 90.94  | 8.895 | 3.798 | 2.591 | 4.115 | 70- 80   | 71.08       | 435.9        | 98.3, 50.4 |
| 90       | 0.0164                | 0.0082 | 0     | 0.0001 | 0     | 0     | 0     | 0     | 80- 90   | 7.374       | 443.2        | 100, 51.3  |
| 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     |              |            |

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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:230.47V I:0.0297A P:6.7199W PF:0.9823 Freq:50.00Hz Lamp Flux:864x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                           | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:NW, NICHIA                                                             | DIM.: Sq.105 x 38 | SERIAL No.:4871  |
| MFR.: K-LITE                                                                 | SUR.:             | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 577    | 556     |
| 80                | 521    | 4740    |
| 75                | 633    | 9433    |
| 70                | 738    | 7257    |
| 65                | 807    | 5756    |
| 60                | 855    | 4696    |
| 55                | 886    | 3967    |
| 50                | 907    | 3466    |
| 45                | 923    | 3064    |

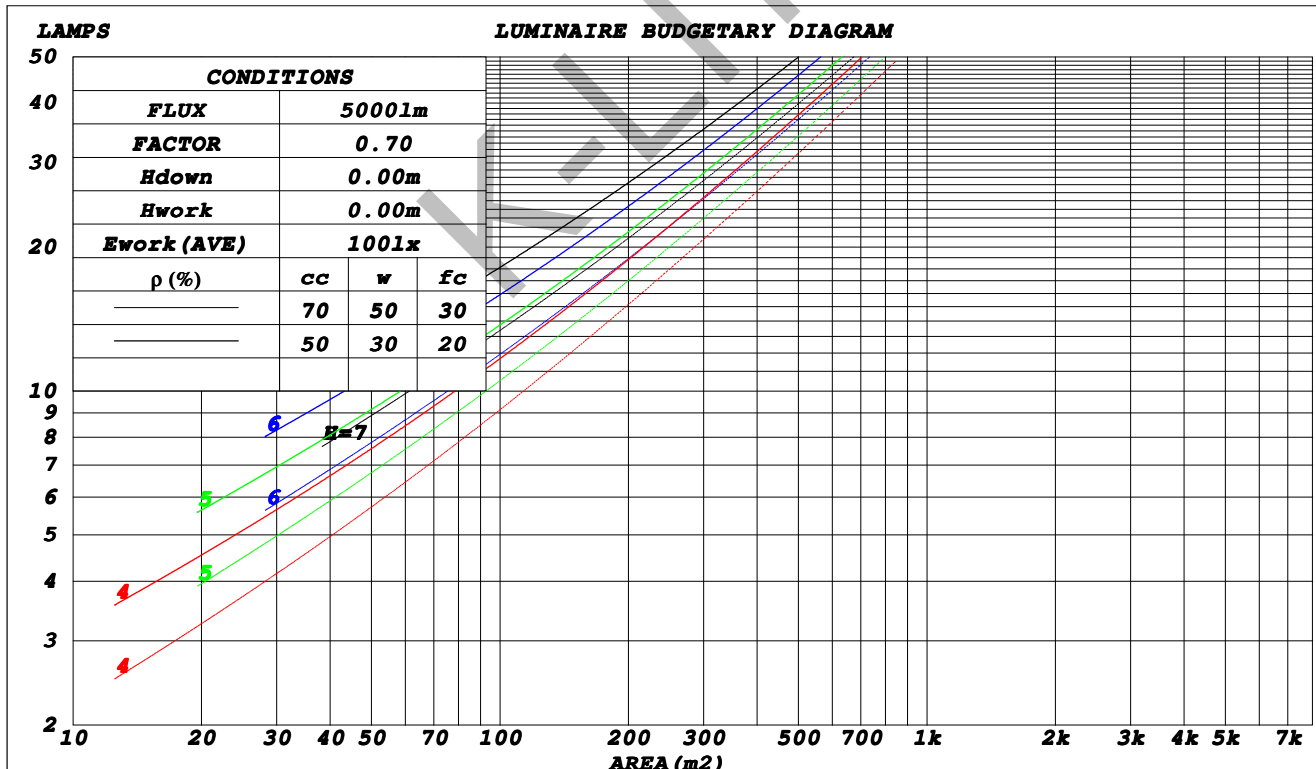
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: K-LITE  
Test Date: 03 September 2022

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:230.47V I:0.0297A P:6.7199W PF:0.9823 Freq:50.00Hz Lamp Flux:864x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                           | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:NW, NICHIA                                                             | DIM.: Sq.105 x 38 | SERIAL No.:4871  |
| MFR.: K-LITE                                                                 | SUR.:             | Shielding Angle: |

| $\rho_{cc}$ | 80%                   |     |     | 70% |     |     | 50%                             |     |     | 30% |     |     | 10% |     |     | 0   |
|-------------|-----------------------|-----|-----|-----|-----|-----|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| $\rho_w$    | 50%                   | 30% | 10% | 50% | 30% | 10% | 50%                             | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0   |
| $\rho_{fc}$ | 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 | .52 | .52 | .52 | .51 |
| 1.0         | .52                   | .49 | .46 | .50 | .48 | .46 | .48                             | .46 | .44 | .46 | .44 | .43 | .44 | .43 | .42 | .40 |
| 2.0         | .43                   | .39 | .35 | .42 | .38 | .35 | .40                             | .37 | .34 | .39 | .36 | .33 | .37 | .35 | .33 | .31 |
| 3.0         | .37                   | .32 | .28 | .36 | .31 | .28 | .34                             | .30 | .27 | .33 | .29 | .27 | .31 | .29 | .26 | .25 |
| 4.0         | .32                   | .27 | .23 | .31 | .26 | .22 | .30                             | .25 | .22 | .28 | .25 | .22 | .27 | .24 | .21 | .20 |
| 5.0         | .28                   | .23 | .19 | .27 | .22 | .19 | .26                             | .22 | .18 | .25 | .21 | .18 | .24 | .21 | .18 | .17 |
| 6.0         | .25                   | .20 | .16 | .24 | .19 | .16 | .23                             | .19 | .16 | .22 | .18 | .15 | .21 | .18 | .15 | .14 |
| 7.0         | .22                   | .17 | .14 | .22 | .17 | .14 | .21                             | .17 | .13 | .20 | .16 | .13 | .19 | .16 | .13 | .12 |
| 8.0         | .20                   | .15 | .12 | .20 | .15 | .12 | .19                             | .15 | .12 | .18 | .14 | .12 | .18 | .14 | .12 | .10 |
| 9.0         | .18                   | .14 | .11 | .18 | .13 | .10 | .17                             | .13 | .10 | .17 | .13 | .10 | .16 | .13 | .10 | .09 |
| 10.0        | .17                   | .12 | .09 | .16 | .12 | .09 | .16                             | .12 | .09 | .15 | .12 | .09 | .15 | .12 | .09 | .08 |



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

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:230.47V I:0.0297A P:6.7199W PF:0.9823 Freq:50.00Hz Lamp Flux:864x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                           | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:NW, NICHIA                                                             | DIM.: Sq.105 x 38 | SERIAL No.:4871  |
| MFR.: K-LITE                                                                 | SUR.:             | Shielding Angle: |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%                             |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|-------------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|--|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                             | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| $\rho_{fc}$ | 20%                   |      |      | 20%  |      |      | 20%                             |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR         | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients(WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0         |                       |      |      |      |      |      |                                 |      |      |      |      |      |      |      |      |   |  |
| 1.0         | .193                  | .110 | .035 | .189 | .108 | .034 | .182                            | .105 | .033 | .176 | .101 | .033 | .170 | .098 | .032 |   |  |
| 2.0         | .180                  | .099 | .030 | .177 | .097 | .030 | .170                            | .095 | .029 | .165 | .092 | .029 | .159 | .090 | .028 |   |  |
| 3.0         | .164                  | .087 | .026 | .161 | .086 | .026 | .155                            | .084 | .026 | .150 | .082 | .025 | .145 | .080 | .025 |   |  |
| 4.0         | .148                  | .077 | .023 | .145 | .076 | .022 | .140                            | .074 | .022 | .136 | .073 | .022 | .131 | .071 | .022 |   |  |
| 5.0         | .135                  | .069 | .020 | .132 | .068 | .020 | .128                            | .067 | .020 | .124 | .065 | .019 | .120 | .064 | .019 |   |  |
| 6.0         | .123                  | .062 | .018 | .121 | .061 | .018 | .117                            | .060 | .017 | .113 | .059 | .017 | .110 | .058 | .017 |   |  |
| 7.0         | .113                  | .056 | .016 | .111 | .056 | .016 | .108                            | .055 | .016 | .105 | .054 | .016 | .101 | .053 | .015 |   |  |
| 8.0         | .105                  | .051 | .014 | .103 | .051 | .014 | .100                            | .050 | .014 | .097 | .049 | .014 | .094 | .048 | .014 |   |  |
| 9.0         | .097                  | .047 | .013 | .096 | .047 | .013 | .093                            | .046 | .013 | .090 | .045 | .013 | .088 | .045 | .013 |   |  |
| 10.0        | .091                  | .044 | .012 | .090 | .043 | .012 | .087                            | .043 | .012 | .085 | .042 | .012 | .082 | .041 | .012 |   |  |

| $\rho_{cc}$ | 80%                   |      |      | 70%  |      |      | 50%                                         |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|-------------|-----------------------|------|------|------|------|------|---------------------------------------------|------|------|------|------|------|------|------|------|---|--|
| $\rho_w$    | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                         | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| $\rho_{fc}$ | 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 | .010 | .010 | .010 |   |  |
| 1.0         | .095                  | .080 | .066 | .081 | .068 | .057 | .056                                        | .047 | .039 | .032 | .027 | .023 | .010 | .009 | .007 |   |  |
| 2.0         | .092                  | .068 | .047 | .079 | .058 | .040 | .054                                        | .040 | .028 | .031 | .023 | .016 | .010 | .008 | .005 |   |  |
| 3.0         | .089                  | .059 | .035 | .076 | .051 | .030 | .053                                        | .035 | .021 | .030 | .021 | .012 | .010 | .007 | .004 |   |  |
| 4.0         | .085                  | .052 | .027 | .073 | .045 | .023 | .050                                        | .031 | .016 | .029 | .018 | .010 | .009 | .006 | .003 |   |  |
| 5.0         | .082                  | .047 | .022 | .070 | .041 | .019 | .048                                        | .028 | .013 | .028 | .017 | .008 | .009 | .005 | .003 |   |  |
| 6.0         | .078                  | .043 | .018 | .067 | .037 | .016 | .046                                        | .026 | .011 | .027 | .015 | .007 | .009 | .005 | .002 |   |  |
| 7.0         | .074                  | .039 | .015 | .063 | .034 | .014 | .044                                        | .024 | .010 | .025 | .014 | .006 | .008 | .005 | .002 |   |  |
| 8.0         | .070                  | .037 | .014 | .060 | .032 | .012 | .042                                        | .022 | .008 | .024 | .013 | .005 | .008 | .004 | .002 |   |  |
| 9.0         | .067                  | .034 | .012 | .057 | .030 | .010 | .040                                        | .021 | .007 | .023 | .012 | .004 | .008 | .004 | .001 |   |  |
| 10.0        | .063                  | .032 | .011 | .055 | .028 | .009 | .038                                        | .019 | .007 | .022 | .011 | .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**

**$\gamma$  Range: 0 - 90DEG**  
 **$\gamma$  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:230.47V I:0.0297A P:6.7199W PF:0.9823 Freq:50.00Hz Lamp Flux:864x1 lm |                  |      |      |      |                   |                |      |                  |      |      |
| NAME: RADO MINI - SURFACE MOUNTING                                           |                  |      |      |      | TYPE:PATH FINDERS |                |      | WEIGHT:          |      |      |
| SPEC.:NW, NICHIA                                                             |                  |      |      |      | DIM.: Sq.105 x 38 |                |      | SERIAL No.:4871  |      |      |
| 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                                                                | 15.4             | 17.2 | 15.7 | 17.4 | 17.6              | 21.9           | 23.6 | 22.2             | 23.8 | 24.1 |
| 3H                                                                           | 16.6             | 18.2 | 16.9 | 18.5 | 18.7              | 25.6           | 27.2 | 25.9             | 27.5 | 27.7 |
| 4H                                                                           | 17.0             | 18.5 | 17.3 | 18.8 | 19.0              | 27.6           | 29.1 | 27.9             | 29.4 | 29.7 |
| 6H                                                                           | 17.1             | 18.6 | 17.4 | 18.8 | 19.1              | 28.9           | 30.4 | 29.3             | 30.7 | 31.0 |
| 8H                                                                           | 17.1             | 18.5 | 17.4 | 18.8 | 19.1              | 28.9           | 30.3 | 29.2             | 30.6 | 30.9 |
| 12H                                                                          | 17.1             | 18.5 | 17.5 | 18.8 | 19.1              | 28.8           | 30.2 | 29.2             | 30.5 | 30.8 |
| 4H 2H                                                                        | 18.5             | 20.1 | 18.8 | 20.3 | 20.6              | 22.4           | 24.0 | 22.8             | 24.3 | 24.5 |
| 3H                                                                           | 20.0             | 21.4 | 20.4 | 21.7 | 22.0              | 26.4           | 27.8 | 26.8             | 28.1 | 28.4 |
| 4H                                                                           | 20.6             | 21.8 | 20.9 | 22.2 | 22.5              | 28.6           | 29.9 | 29.0             | 30.2 | 30.6 |
| 6H                                                                           | 20.8             | 21.9 | 21.2 | 22.2 | 22.6              | 30.1           | 31.2 | 30.5             | 31.5 | 31.9 |
| 8H                                                                           | 20.8             | 21.8 | 21.2 | 22.2 | 22.6              | 30.0           | 31.1 | 30.4             | 31.4 | 31.8 |
| 12H                                                                          | 20.8             | 21.7 | 21.2 | 22.1 | 22.5              | 30.0           | 30.9 | 30.4             | 31.3 | 31.8 |
| 8H 4H                                                                        | 22.9             | 24.0 | 23.4 | 24.4 | 24.8              | 28.9           | 29.9 | 29.3             | 30.3 | 30.7 |
| 6H                                                                           | 23.4             | 24.3 | 23.8 | 24.7 | 25.1              | 30.4           | 31.3 | 30.9             | 31.7 | 32.1 |
| 8H                                                                           | 23.4             | 24.2 | 23.9 | 24.6 | 25.1              | 30.4           | 31.2 | 30.8             | 31.6 | 32.1 |
| 12H                                                                          | 23.4             | 24.1 | 23.9 | 24.5 | 25.0              | 30.4           | 31.0 | 30.8             | 31.5 | 32.0 |
| 12H 4H                                                                       | 23.4             | 24.4 | 23.8 | 24.7 | 25.2              | 28.8           | 29.8 | 29.3             | 30.2 | 30.6 |
| 6H                                                                           | 23.9             | 24.7 | 24.3 | 25.1 | 25.6              | 30.4           | 31.2 | 30.9             | 31.6 | 32.1 |
| 8H                                                                           | 23.9             | 24.6 | 24.4 | 25.1 | 25.5              | 30.4           | 31.1 | 30.9             | 31.5 | 32.0 |
| Variations with the observer position at spacings:                           |                  |      |      |      |                   |                |      |                  |      |      |
| S = 1.0H                                                                     | + 0.1 / - 0.1    |      |      |      |                   | + 0.1 / - 0.2  |      |                  |      |      |
| 1.5H                                                                         | + 0.3 / - 0.1    |      |      |      |                   | + 0.4 / - 0.3  |      |                  |      |      |
| 2.0H                                                                         | + 0.3 / - 0.5    |      |      |      |                   | + 0.4 / - 0.3  |      |                  |      |      |

CIE Pub.117, 864.0 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: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:230.47V I:0.0297A P:6.7199W PF:0.9823 Freq:50.00Hz Lamp Flux:864x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                           | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:NW, NICHIA                                                             | DIM.: Sq.105 x 38 | SERIAL No.:4871  |
| MFR.: K-LITE                                                                 | SUR.:             | Shielding Angle: |

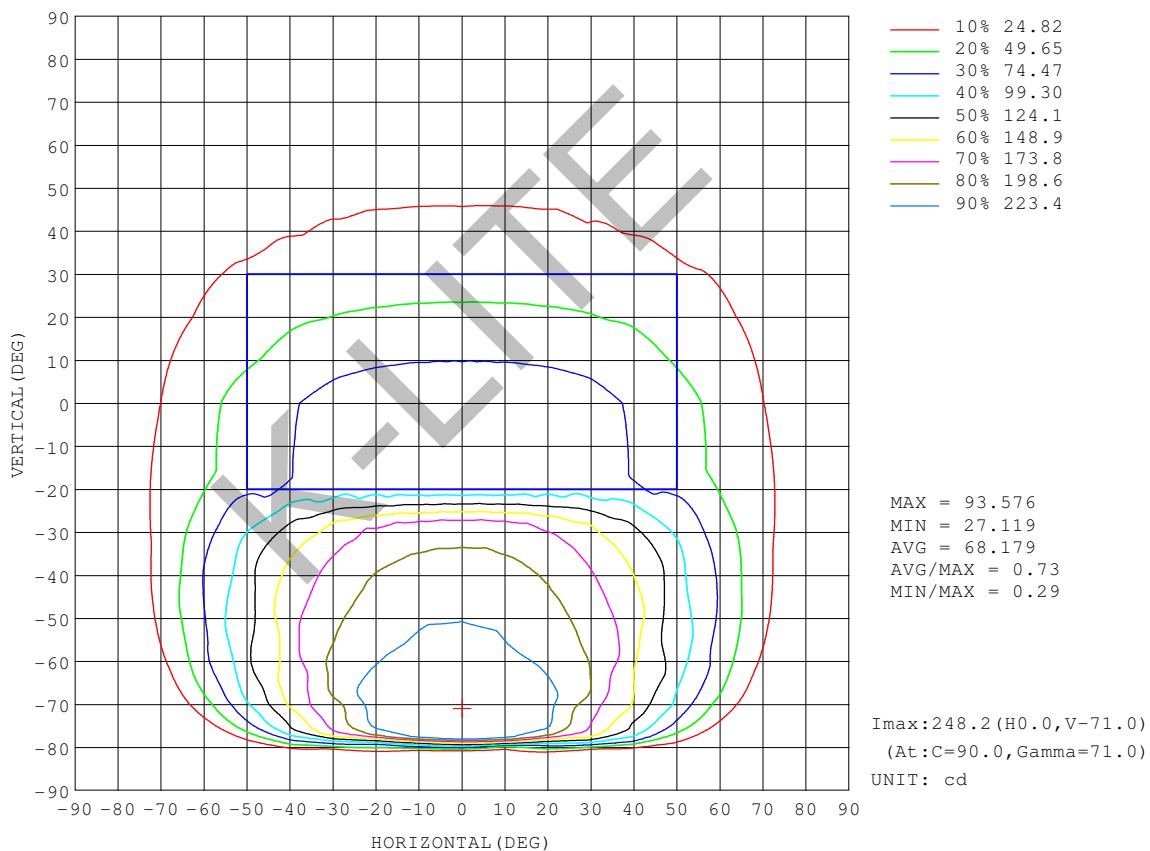
| REFLECTANCE                      |                                                     |     |           |     |     |     |     |               |     |        |
|----------------------------------|-----------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 25                                                  | 19  | 15        | 25  | 18  | 14  | 24  | 18            | 14  | 11     |
| 0.80                             | 30                                                  | 23  | 19        | 30  | 23  | 19  | 29  | 23            | 19  | 15     |
| 1.00                             | 34                                                  | 28  | 23        | 34  | 27  | 23  | 33  | 28            | 23  | 19     |
| 1.25                             | 38                                                  | 32  | 27        | 38  | 31  | 27  | 36  | 31            | 27  | 22     |
| 1.50                             | 41                                                  | 35  | 31        | 40  | 35  | 30  | 39  | 34            | 30  | 25     |
| 2.00                             | 45                                                  | 40  | 36        | 44  | 39  | 36  | 42  | 38            | 35  | 30     |
| 2.50                             | 48                                                  | 43  | 39        | 47  | 42  | 39  | 45  | 41            | 38  | 33     |
| 3.00                             | 50                                                  | 46  | 42        | 49  | 45  | 42  | 47  | 43            | 41  | 36     |
| 4.00                             | 53                                                  | 49  | 46        | 51  | 48  | 46  | 49  | 46            | 44  | 39     |
| 5.00                             | 54                                                  | 51  | 49        | 53  | 50  | 48  | 51  | 48            | 46  | 41     |
| 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**

**$\gamma$  Range: 0 - 90DEG**  
 **$\gamma$  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:230.47V I:0.0297A P:6.7199W PF:0.9823 Freq:50.00Hz Lamp Flux:864x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                           | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:NW, NICHIA                                                             | DIM.: Sq.105 x 38 | SERIAL No.:4871  |
| MFR.: K-LITE                                                                 | SUR.:             | Shielding Angle: |

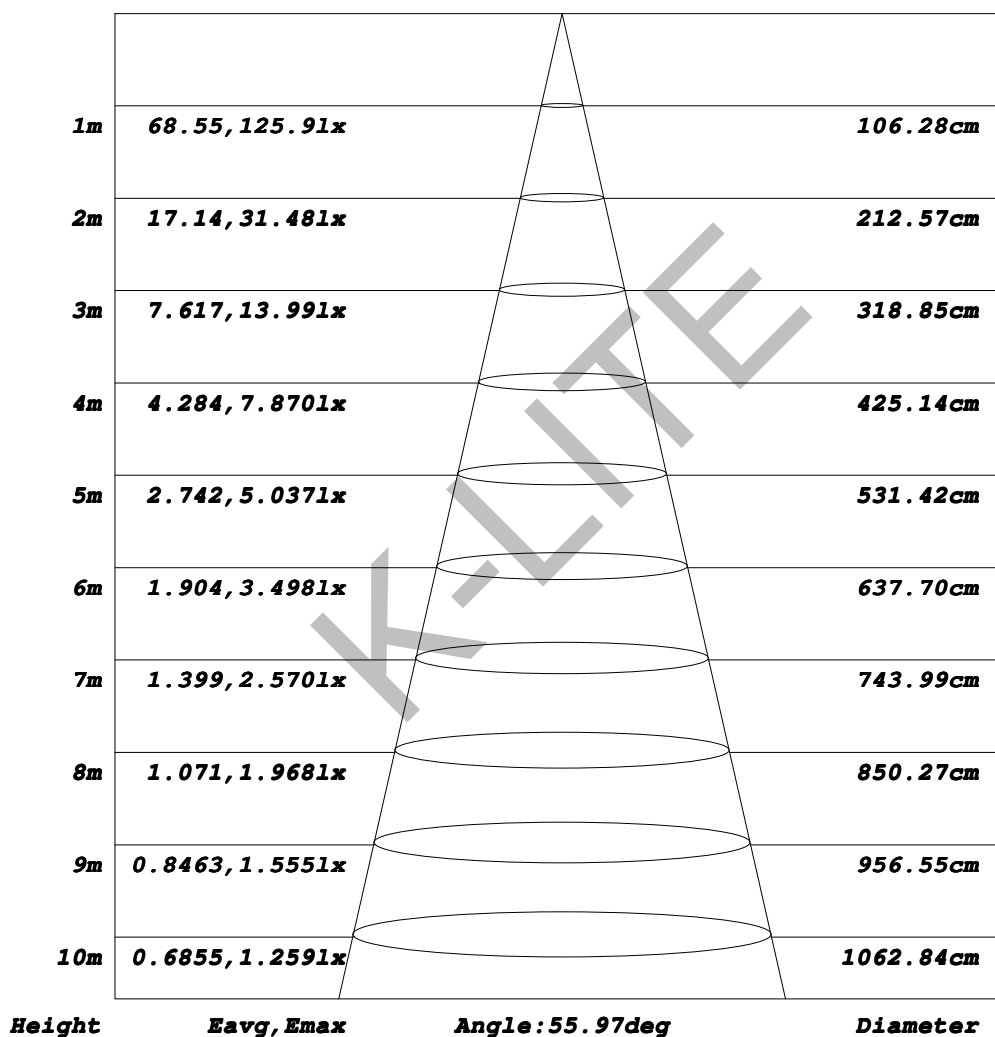


**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:K-LITE**  
**Test Date:03 September 2022**

**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:230.47V I:0.0297A P:6.7199W PF:0.9823 Freq:50.00Hz Lamp Flux:864x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                           | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:NW, NICHIA                                                             | DIM.: Sq.105 x 38 | SERIAL No.:4871  |
| MFR.: K-LITE                                                                 | SUR.:             | Shielding Angle: |

**Flux out:60.88 lm**


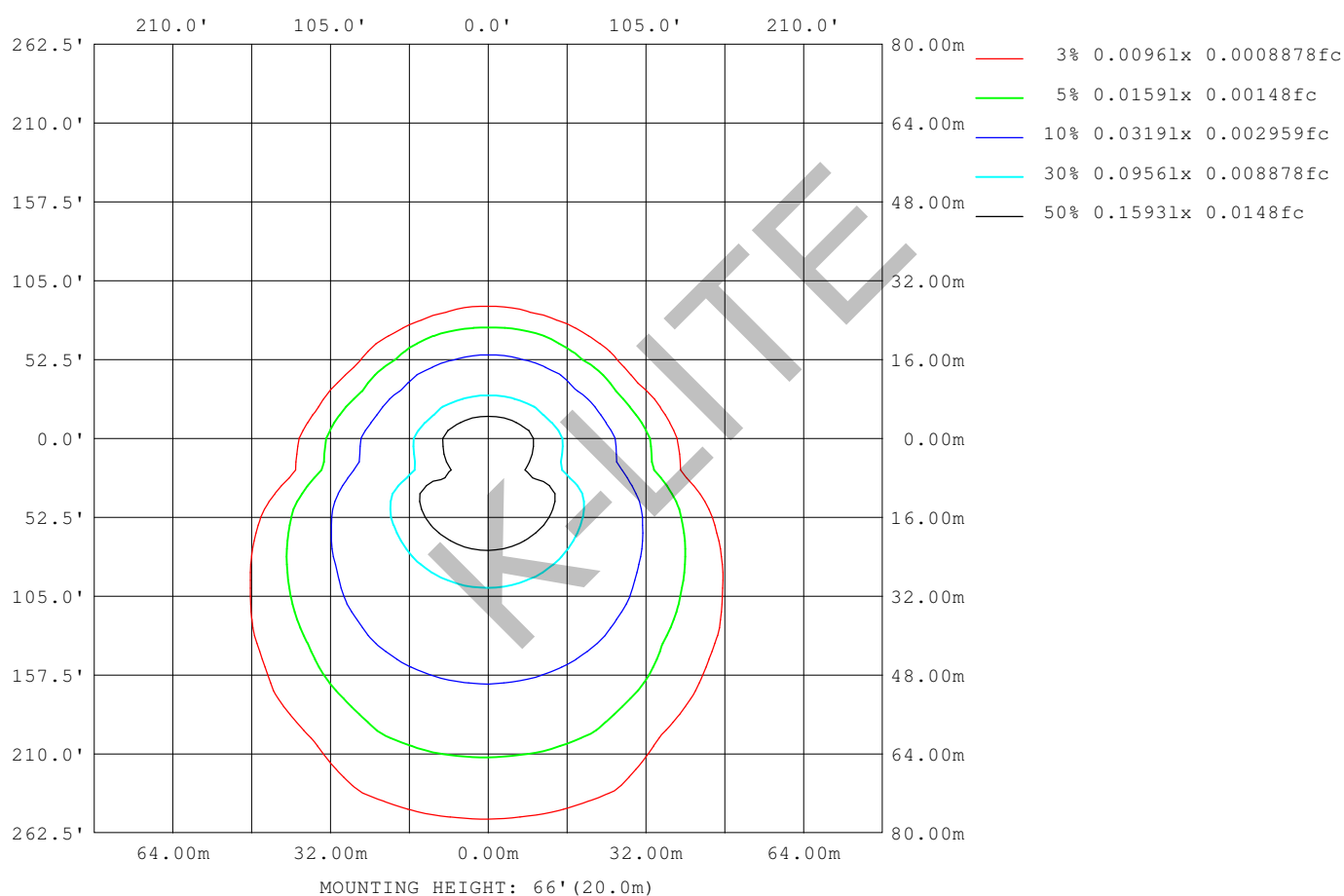
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**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:230.47V I:0.0297A P:6.7199W PF:0.9823 Freq:50.00Hz Lamp Flux:864x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                           | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:NW, NICHIA                                                             | DIM.: Sq.105 x 38 | SERIAL No.:4871  |
| 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:230.47V I:0.0297A P:6.7199W PF:0.9823 Freq:50.00Hz Lamp Flux:864x1 lm |                   |                  |
| NAME: RADO MINI - SURFACE MOUNTING                                           | TYPE:PATH FINDERS | WEIGHT:          |
| SPEC.:NW, NICHIA                                                             | DIM.: Sq.105 x 38 | SERIAL No.:4871  |
| MFR.: K-LITE                                                                 | SUR.:             | Shielding Angle: |

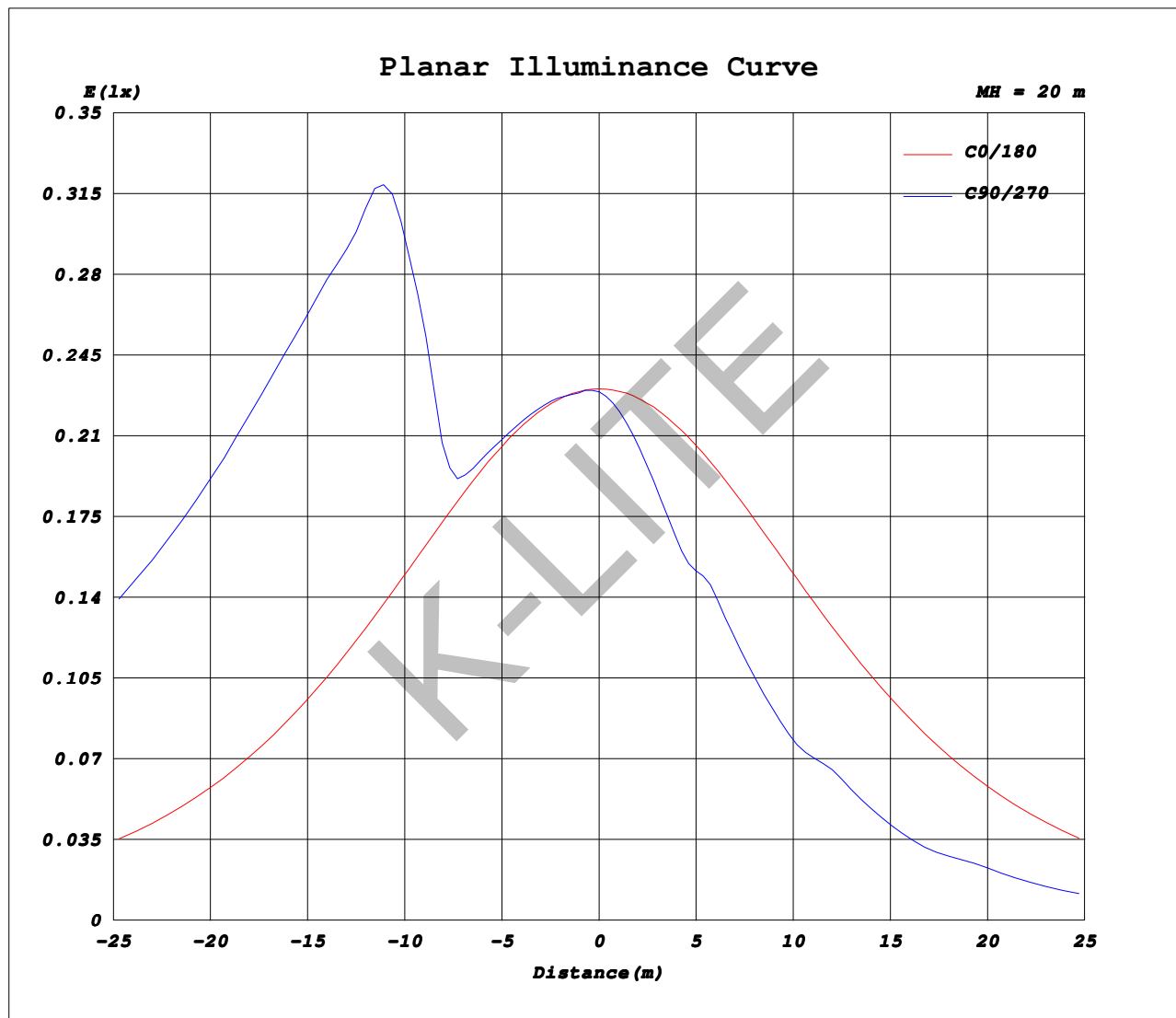
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 806   |
| L_0~180 (75) av  | 623   |
| L_0~180 (85) av  | 527   |
| L_90~270 (65) av | 3001  |
| L_90~270 (75) av | 4820  |
| L_90~270 (85) av | 338   |
| L_45 (65) av     | 2050  |
| L_45 (75) av     | 2706  |
| L_45 (85) av     | 391   |

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**

**$\gamma$  Range: 0 - 90DEG**  
 **$\gamma$  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:

```