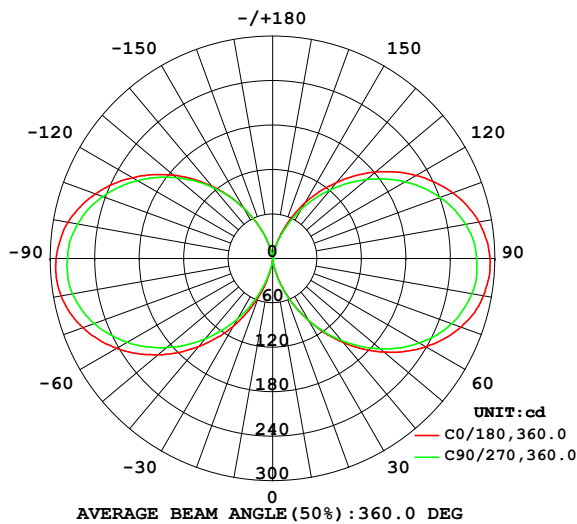


## LUMINAIRE PHOTOMETRIC TEST REPORT

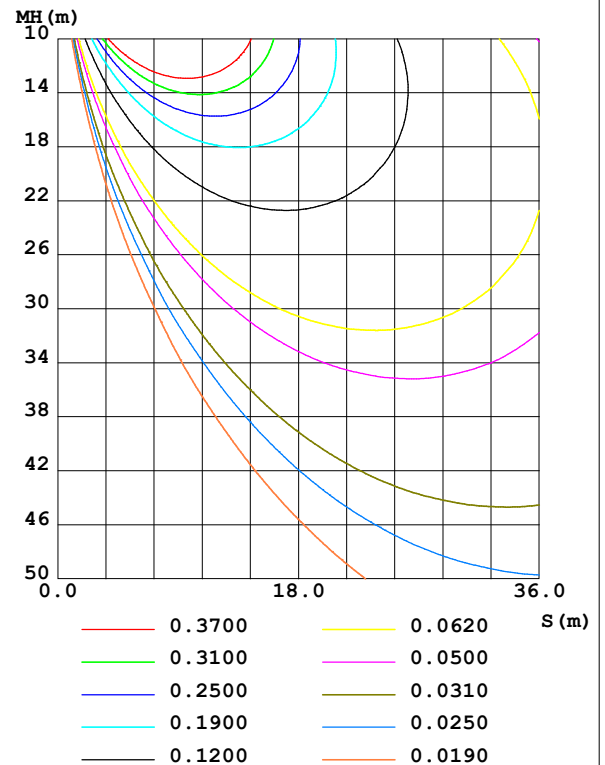
|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.0V I:0.3702A P:44.13W PF:0.9929 Freq:60.01Hz<br>Lamp Flux:2377.1x1 lm |       |                  |
| NAME: IDRC16LAJUDSN 5000K                                                        | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.                                            | SUR.: | Shielding Angle: |

| DATA OF LAMP     |        | PHOTOMETRIC DATA      |         |                    |           | Eff: 53.87 lm/W |
|------------------|--------|-----------------------|---------|--------------------|-----------|-----------------|
| MODEL            |        | I <sub>max</sub> (cd) | 293.7   | S/MH (C0/180)      | 21.29     |                 |
| NOMINAL POWER(W) |        | LOR (%)               | 100.0   | S/MH (C90/270)     | 20.74     |                 |
| RATED VOLTAGE(V) | 120    | TOTAL FLUX(lm)        | 2377.1  | η UP,DN (C0-180)   | 24.0,26.0 |                 |
| NOMINAL FLUX(lm) | 2377.1 | CIE CLASS             | DIFFUSE | η UP,DN (C180-360) | 24.2,25.8 |                 |
| LAMPS INSIDE     | 1      | η up (%)              | 48.2    | CIBSE SHR NOM      | 1.50      |                 |
| TEST VOLTAGE(V)  | 120    | η down (%)            | 51.8    | CIBSE SHR MAX      | 1.55      |                 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Dano  
Test Date:2023-07-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.3%  
Test Distance:2.900m [K=0.8810]  
Remarks:

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ   | C0                    | C45    | C90    | C135   | C180   | C225   | C270   | C315   | γ       | Φ zone  | Φ total | %lum,lamp |
|-----|-----------------------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|-----------|
| 10  | 9.733                 | 10.68  | 10.86  | 12.63  | 13.28  | 11.40  | 9.718  | 7.621  | 0- 10   | 0.4199  | 0.4199  | 0.02,0.02 |
| 20  | 46.48                 | 47.23  | 48.25  | 49.44  | 53.74  | 47.63  | 45.67  | 42.79  | 10- 20  | 8.420   | 8.840   | 0.37,0.37 |
| 30  | 96.44                 | 93.90  | 96.08  | 95.70  | 104.7  | 94.64  | 93.44  | 89.53  | 20- 30  | 33.39   | 42.23   | 1.78,1.78 |
| 40  | 148.2                 | 142.5  | 144.8  | 143.0  | 155.0  | 141.4  | 141.6  | 136.6  | 30- 40  | 74.95   | 117.2   | 4.93,4.93 |
| 50  | 196.6                 | 185.1  | 189.9  | 186.8  | 202.6  | 183.3  | 187.3  | 181.4  | 40- 50  | 127.9   | 245.1   | 10.3,10.3 |
| 60  | 238.6                 | 219.7  | 228.4  | 223.7  | 242.7  | 218.5  | 226.7  | 219.9  | 50- 60  | 184.7   | 429.8   | 18.1,18.1 |
| 70  | 270.6                 | 248.9  | 257.4  | 249.4  | 272.8  | 247.0  | 256.4  | 247.0  | 60- 70  | 236.0   | 665.8   | 28,28     |
| 80  | 288.8                 | 265.5  | 273.1  | 263.3  | 290.0  | 263.6  | 274.3  | 263.2  | 70- 80  | 273.5   | 939.3   | 39.5,39.5 |
| 90  | 293.2                 | 270.2  | 275.3  | 265.1  | 292.4  | 266.8  | 277.0  | 267.4  | 80- 90  | 292.1   | 1231    | 51.8,51.8 |
| 100 | 283.1                 | 259.2  | 264.6  | 252.8  | 280.7  | 256.3  | 267.2  | 258.1  | 90-100  | 288.0   | 1519    | 63.9,63.9 |
| 110 | 258.9                 | 236.2  | 240.7  | 228.8  | 254.8  | 232.8  | 244.2  | 235.4  | 100-110 | 261.5   | 1781    | 74.9,74.9 |
| 120 | 224.0                 | 204.7  | 206.6  | 196.0  | 218.4  | 201.6  | 210.6  | 203.4  | 110-120 | 220.1   | 2001    | 84.2,84.2 |
| 130 | 181.6                 | 167.3  | 165.9  | 158.4  | 175.1  | 163.8  | 169.8  | 165.6  | 120-130 | 167.8   | 2169    | 91.2,91.2 |
| 140 | 133.8                 | 123.1  | 120.9  | 115.4  | 127.2  | 119.8  | 125.0  | 123.3  | 130-140 | 112.7   | 2281    | 96,96     |
| 150 | 85.43                 | 77.94  | 75.78  | 71.34  | 78.76  | 74.16  | 78.40  | 79.38  | 140-150 | 63.46   | 2345    | 98.6,98.6 |
| 160 | 39.29                 | 35.23  | 33.57  | 30.58  | 35.08  | 33.58  | 34.98  | 39.61  | 150-160 | 26.36   | 2371    | 99.8,99.8 |
| 170 | 6.671                 | 6.020  | 5.358  | 3.638  | 4.440  | 3.845  | 5.199  | 6.956  | 160-170 | 5.728   | 2377    | 100,100   |
| 180 | 0.3975                | 0.3995 | 0.4794 | 0.3113 | 0.3749 | 0.2667 | 0.2717 | 0.2664 | 170-180 | 0.1711  | 2377    | 100,100   |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |        |        |        |        |         | UNIT:lm |         |           |

Conical surface Flux(90deg): 174.07 lm

%lum = 7.3%

%lamp = 7.3%

Conical surface Flux(120deg): 429.75 lm

%lum = 18.1%

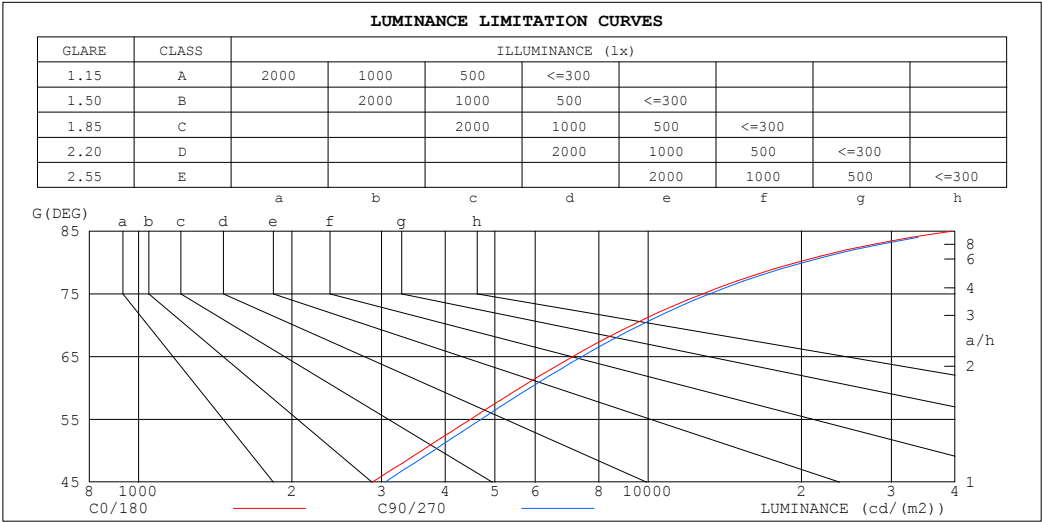
%lamp = 18.1%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.2℃  
 Operators:Dano  
 Test Date:2023-07-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
 Humidity:55.3%  
 Test Distance:2.900m [K=0.8810]  
 Remarks:

LUMINANCE LIMITATION CURVES

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.0V I:0.3702A P:44.13W PF:0.9929 Freq:60.01Hz<br>Lamp Flux:2377.1x1 lm |       |                  |
| NAME: IDRC16LAJUDSN 5000K                                                        | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.                                            | SUR.: | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 39471  | 40641   |
| 80                | 19524  | 20161   |
| 75                | 12793  | 13208   |
| 70                | 9288   | 9650    |
| 65                | 7109   | 7416    |
| 60                | 5604   | 5856    |
| 55                | 4479   | 4702    |
| 50                | 3590   | 3787    |
| 45                | 2877   | 3046    |

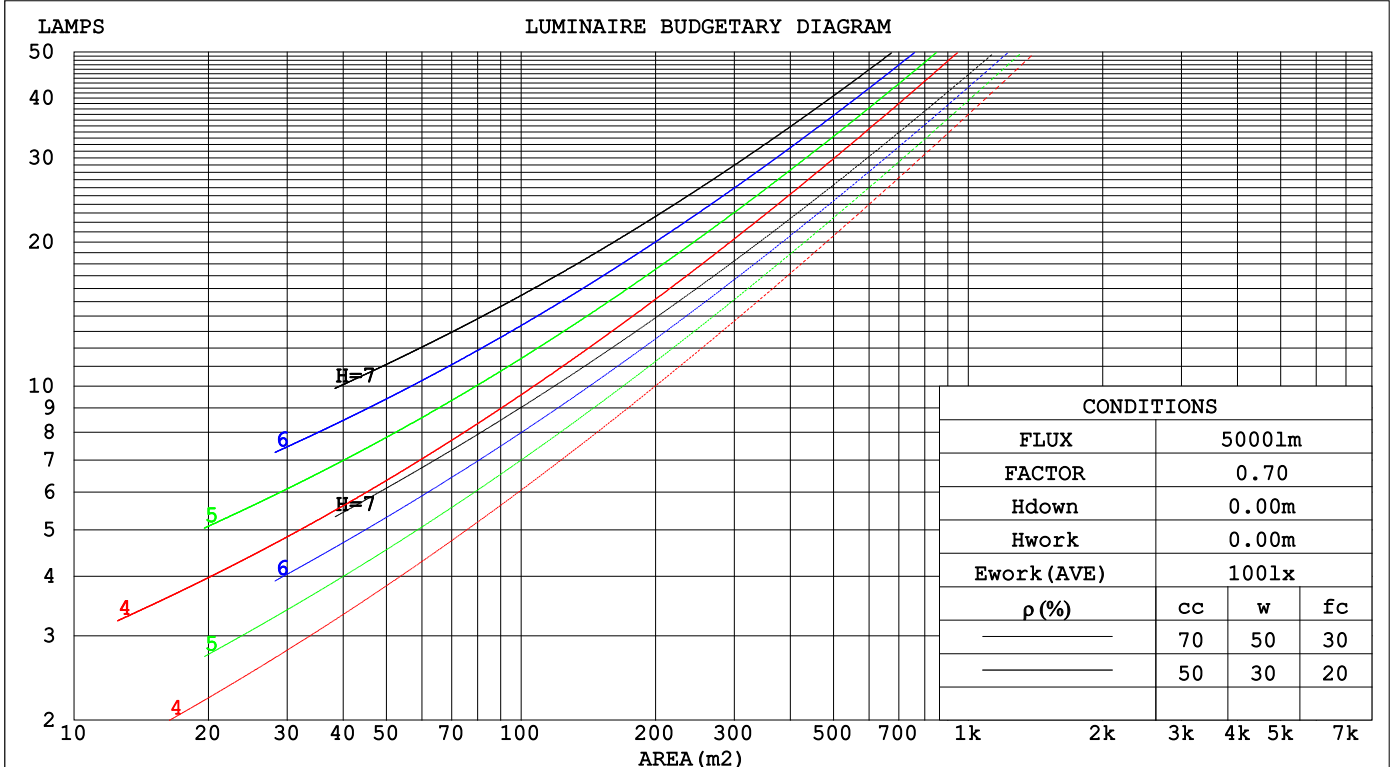
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Dano  
Test Date:2023-07-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.3%  
Test Distance:2.900m [K=0.8810]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.0V I:0.3702A P:44.13W PF:0.9929 Freq:60.01Hz<br>Lamp Flux:2377.1x1 lm |       |                  |
| NAME: IDRC16LAJUDSN 5000K                                                        | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.                                            | SUR.: | Shielding Angle: |

|      |                       |     |     |                                 |     |     |     |     |     |     |     |     |     |     |     |     |
|------|-----------------------|-----|-----|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| pcc  | 30%                   |     |     | 70%                             |     |     | 50% |     |     | 30% |     |     | 10% |     |     | 0   |
| pw   | 50%                   | 30% | 10% | 50%                             | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0   |
| pfc  | 20%                   |     |     | 20%                             |     |     | 20% |     |     | 20% |     |     | 20% |     |     | 0   |
| RCR  | RCR:Room Cavity Ratio |     |     | Coefficients of Utilization(CU) |     |     |     |     |     |     |     |     |     |     |     |     |
| 0.0  | .70                   | .70 | .70 | .99                             | .99 | .99 | .84 | .84 | .84 | .70 | .70 | .70 | .58 | .58 | .58 | .52 |
| 1.0  | .52                   | .49 | .46 | .78                             | .72 | .67 | .64 | .60 | .56 | .52 | .49 | .46 | .41 | .38 | .36 | .30 |
| 2.0  | .42                   | .37 | .33 | .64                             | .56 | .50 | .53 | .47 | .41 | .42 | .37 | .33 | .32 | .29 | .26 | .21 |
| 3.0  | .35                   | .30 | .25 | .54                             | .46 | .39 | .44 | .38 | .32 | .35 | .30 | .25 | .27 | .23 | .19 | .15 |
| 4.0  | .30                   | .25 | .20 | .47                             | .38 | .31 | .38 | .31 | .25 | .30 | .25 | .20 | .23 | .18 | .15 | .11 |
| 5.0  | .26                   | .21 | .16 | .41                             | .32 | .25 | .33 | .26 | .21 | .26 | .21 | .16 | .20 | .15 | .12 | .08 |
| 6.0  | .23                   | .18 | .13 | .36                             | .28 | .21 | .30 | .23 | .17 | .23 | .18 | .13 | .17 | .13 | .10 | .06 |
| 7.0  | .21                   | .15 | .11 | .32                             | .24 | .18 | .26 | .20 | .15 | .21 | .15 | .11 | .16 | .11 | .08 | .05 |
| 8.0  | .19                   | .13 | .10 | .29                             | .21 | .15 | .24 | .17 | .12 | .19 | .13 | .10 | .14 | .10 | .07 | .04 |
| 9.0  | .17                   | .12 | .08 | .26                             | .19 | .13 | .22 | .15 | .11 | .17 | .12 | .08 | .13 | .09 | .06 | .03 |
| 10.0 | .16                   | .11 | .07 | .24                             | .17 | .12 | .20 | .14 | .09 | .16 | .11 | .07 | .12 | .08 | .05 | .03 |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Dano  
Test Date:2023-07-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.3%  
Test Distance:2.900m [K=0.8810]  
Remarks:

## WEC AND CCEC

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.0V I:0.3702A P:44.13W PF:0.9929 Freq:60.01Hz<br>Lamp Flux:2377.1x1 lm |       |                  |
| NAME: IDRC16LAJUDSN 5000K                                                        | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.                                            | SUR.: | Shielding Angle: |

|      |                                                       |                |                |                |                |   |
|------|-------------------------------------------------------|----------------|----------------|----------------|----------------|---|
| pcc  | 30%                                                   | 70%            | 50%            | 30%            | 10%            | 0 |
| pw   | 50% 30% 10%                                           | 50% 30% 10%    | 50% 30% 10%    | 50% 30% 10%    | 50% 30% 10%    | 0 |
| pfc  | 20%                                                   | 20%            | 20%            | 20%            | 20%            | 0 |
| RCR  | RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC) |                |                |                |                |   |
| 0.0  |                                                       |                |                |                |                |   |
| 1.0  | .354 .204 .066                                        | .433 .247 .079 | .392 .225 .072 | .354 .204 .066 | .319 .185 .060 |   |
| 2.0  | .280 .157 .049                                        | .352 .194 .060 | .314 .175 .054 | .280 .157 .049 | .247 .140 .044 |   |
| 3.0  | .235 .129 .040                                        | .302 .162 .049 | .267 .145 .044 | .235 .129 .040 | .206 .114 .035 |   |
| 4.0  | .205 .110 .033                                        | .266 .139 .041 | .234 .124 .037 | .205 .110 .033 | .177 .096 .029 |   |
| 5.0  | .181 .096 .028                                        | .237 .122 .036 | .208 .108 .032 | .181 .096 .028 | .156 .083 .025 |   |
| 6.0  | .163 .085 .025                                        | .215 .109 .031 | .188 .096 .028 | .163 .085 .025 | .140 .073 .022 |   |
| 7.0  | .148 .076 .022                                        | .196 .098 .028 | .172 .087 .025 | .148 .076 .022 | .126 .066 .019 |   |
| 8.0  | .136 .069 .020                                        | .181 .089 .025 | .158 .079 .022 | .136 .069 .020 | .116 .059 .017 |   |
| 9.0  | .126 .063 .018                                        | .167 .082 .023 | .146 .072 .020 | .126 .063 .018 | .107 .054 .016 |   |
| 10.0 | .117 .058 .017                                        | .156 .075 .021 | .136 .067 .019 | .117 .058 .017 | .099 .050 .014 |   |

|      |                                                                  |                |                |                |                |   |
|------|------------------------------------------------------------------|----------------|----------------|----------------|----------------|---|
| pcc  | 30%                                                              | 70%            | 50%            | 30%            | 10%            | 0 |
| pw   | 50% 30% 10%                                                      | 50% 30% 10%    | 50% 30% 10%    | 50% 30% 10%    | 50% 30% 10%    | 0 |
| pfc  | 20%                                                              | 20%            | 20%            | 20%            | 20%            | 0 |
| RCR  | RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC) |                |                |                |                |   |
| 0.0  | .187 .187 .187                                                   | .477 .477 .477 | .325 .325 .325 | .187 .187 .187 | .060 .060 .060 |   |
| 1.0  | .189 .179 .171                                                   | .480 .451 .424 | .328 .310 .294 | .189 .179 .171 | .060 .058 .055 |   |
| 2.0  | .188 .175 .163                                                   | .476 .434 .399 | .326 .300 .278 | .188 .175 .163 | .060 .057 .053 |   |
| 3.0  | .187 .171 .158                                                   | .471 .422 .383 | .323 .293 .269 | .187 .171 .158 | .060 .056 .052 |   |
| 4.0  | .185 .169 .156                                                   | .465 .413 .373 | .319 .288 .263 | .185 .169 .156 | .059 .055 .051 |   |
| 5.0  | .183 .167 .154                                                   | .458 .406 .367 | .316 .284 .259 | .183 .167 .154 | .059 .054 .051 |   |
| 6.0  | .181 .165 .152                                                   | .452 .400 .362 | .312 .280 .256 | .181 .165 .152 | .058 .054 .050 |   |
| 7.0  | .179 .163 .151                                                   | .447 .395 .359 | .309 .277 .254 | .179 .163 .151 | .058 .053 .050 |   |
| 8.0  | .178 .162 .150                                                   | .441 .391 .356 | .305 .274 .253 | .178 .162 .150 | .057 .053 .050 |   |
| 9.0  | .176 .161 .150                                                   | .436 .387 .354 | .302 .272 .251 | .176 .161 .150 | .057 .053 .050 |   |
| 10.0 | .174 .160 .149                                                   | .431 .384 .352 | .299 .270 .250 | .174 .160 .149 | .057 .052 .050 |   |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Dano  
Test Date:2023-07-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.3%  
Test Distance:2.900m [K=0.8810]  
Remarks:

UGR(Unified Glare Rating) Table

|                                                                                  |                  |      |      |      |       |                |      |                  |      |      |
|----------------------------------------------------------------------------------|------------------|------|------|------|-------|----------------|------|------------------|------|------|
| Test:U:120.0V I:0.3702A P:44.13W PF:0.9929 Freq:60.01Hz<br>Lamp Flux:2377.1x1 lm |                  |      |      |      |       |                |      |                  |      |      |
| NAME: IDRC16LAJUDSN 5000K                                                        |                  |      |      |      | TYPE: |                |      | WEIGHT:          |      |      |
| SPEC.:                                                                           |                  |      |      |      | DIM.: |                |      | SERIAL No.:      |      |      |
| MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.                                            |                  |      |      |      | 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             | 17.3 | 16.8 | 19.1 | 21.5  | 15.2           | 17.5 | 17.0             | 19.3 | 21.7 |
| 3H                                                                               | 18.9             | 21.0 | 20.7 | 22.9 | 25.3  | 19.1           | 21.2 | 20.9             | 23.0 | 25.5 |
| 4H                                                                               | 20.9             | 22.9 | 22.7 | 24.8 | 27.2  | 21.1           | 23.1 | 22.9             | 25.0 | 27.4 |
| 6H                                                                               | 23.1             | 24.9 | 24.9 | 26.8 | 29.3  | 23.2           | 25.1 | 25.1             | 27.0 | 29.5 |
| 8H                                                                               | 24.2             | 26.0 | 26.1 | 28.0 | 30.4  | 24.4           | 26.2 | 26.2             | 28.1 | 30.6 |
| 12H                                                                              | 25.6             | 27.3 | 27.4 | 29.2 | 31.7  | 25.7           | 27.4 | 27.6             | 29.4 | 31.9 |
| 4H 2H                                                                            | 15.8             | 17.8 | 17.6 | 19.7 | 22.1  | 15.9           | 17.9 | 17.7             | 19.8 | 22.2 |
| 3H                                                                               | 19.8             | 21.5 | 21.6 | 23.4 | 26.0  | 19.9           | 21.6 | 21.8             | 23.6 | 26.1 |
| 4H                                                                               | 21.9             | 23.5 | 23.8 | 25.5 | 28.0  | 22.0           | 23.6 | 23.9             | 25.6 | 28.1 |
| 6H                                                                               | 24.2             | 25.6 | 26.1 | 27.6 | 30.2  | 24.3           | 25.7 | 26.2             | 27.7 | 30.2 |
| 8H                                                                               | 25.4             | 26.8 | 27.4 | 28.8 | 31.4  | 25.5           | 26.9 | 27.4             | 28.9 | 31.4 |
| 12H                                                                              | 26.9             | 28.1 | 28.8 | 30.1 | 32.7  | 26.9           | 28.2 | 28.9             | 30.2 | 32.8 |
| 8H 4H                                                                            | 22.5             | 23.9 | 24.4 | 25.9 | 28.5  | 22.6           | 23.9 | 24.5             | 25.9 | 28.5 |
| 6H                                                                               | 25.1             | 26.2 | 27.0 | 28.3 | 30.9  | 25.1           | 26.2 | 27.0             | 28.3 | 30.9 |
| 8H                                                                               | 26.5             | 27.6 | 28.5 | 29.6 | 32.2  | 26.5           | 27.5 | 28.5             | 29.6 | 32.2 |
| 12H                                                                              | 28.1             | 29.1 | 30.1 | 31.1 | 33.8  | 28.1           | 29.1 | 30.1             | 31.1 | 33.8 |
| 12H 4H                                                                           | 22.7             | 24.0 | 24.6 | 26.0 | 28.6  | 22.8           | 24.0 | 24.7             | 26.0 | 28.6 |
| 6H                                                                               | 25.4             | 26.4 | 27.3 | 28.4 | 31.1  | 25.3           | 26.4 | 27.3             | 28.4 | 31.1 |
| 8H                                                                               | 26.9             | 27.9 | 28.9 | 29.9 | 32.6  | 26.9           | 27.8 | 28.9             | 29.9 | 32.6 |
| CIE190: 2010                                                                     |                  |      |      |      |       |                |      |                  |      |      |
|                                                                                  |                  |      |      |      |       |                |      |                  |      |      |

CIE190: 2010  
Area: 0.077931 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Dano  
Test Date:2023-07-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.3%  
Test Distance:2.900m [K=0.8810]  
Remarks:

## UTILIZATION FACTORS TABLE

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.0V I:0.3702A P:44.13W PF:0.9929 Freq:60.01Hz<br>Lamp Flux:2377.1x1 lm |       |                  |
| NAME: IDRC16LAJUDSN 5000K                                                        | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.                                            | SUR.: | Shielding Angle: |

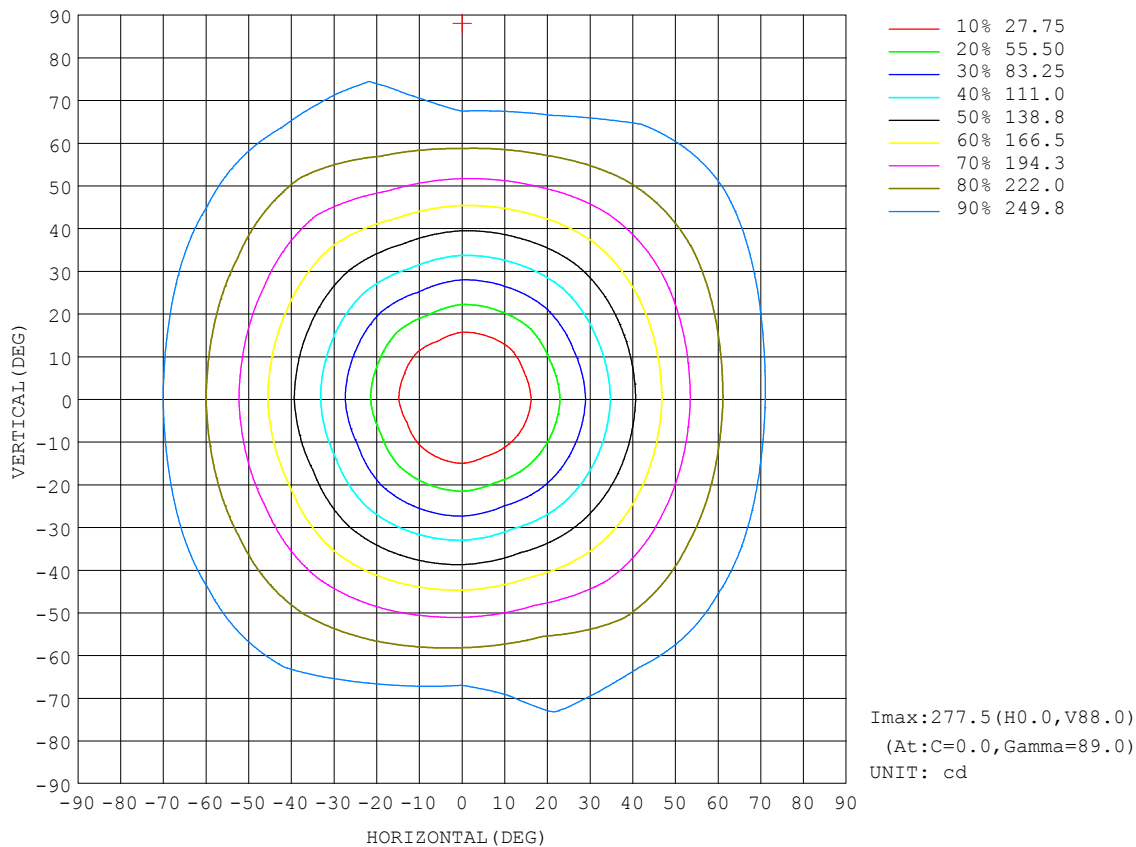
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 33                                                   | 20  | 12        | 31  | 19  | 12  | 28  | 17            | 11  | 3      |
| 0.80                             | 41                                                   | 26  | 18        | 39  | 25  | 17  | 34  | 22            | 15  | 6      |
| 1.00                             | 48                                                   | 33  | 23        | 45  | 31  | 22  | 39  | 30            | 20  | 8      |
| 1.25                             | 55                                                   | 40  | 30        | 51  | 37  | 28  | 44  | 33            | 25  | 11     |
| 1.50                             | 61                                                   | 46  | 35        | 56  | 43  | 33  | 48  | 37            | 29  | 14     |
| 2.00                             | 69                                                   | 55  | 44        | 63  | 51  | 41  | 54  | 44            | 36  | 18     |
| 2.50                             | 74                                                   | 61  | 51        | 68  | 57  | 47  | 58  | 49            | 41  | 21     |
| 3.00                             | 78                                                   | 66  | 56        | 72  | 61  | 53  | 61  | 53            | 45  | 24     |
| 4.00                             | 84                                                   | 73  | 65        | 77  | 68  | 60  | 65  | 58            | 52  | 28     |
| 5.00                             | 88                                                   | 78  | 70        | 81  | 73  | 65  | 68  | 62            | 56  | 31     |
| ROOM INDEX                       | UF(total)                                            |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.2℃  
 Operators: Dano  
 Test Date: 2023-07-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
 Humidity: 55.3%  
 Test Distance: 2.900m [K=0.8810]  
 Remarks:

ISOCANDELA DIAGRAM

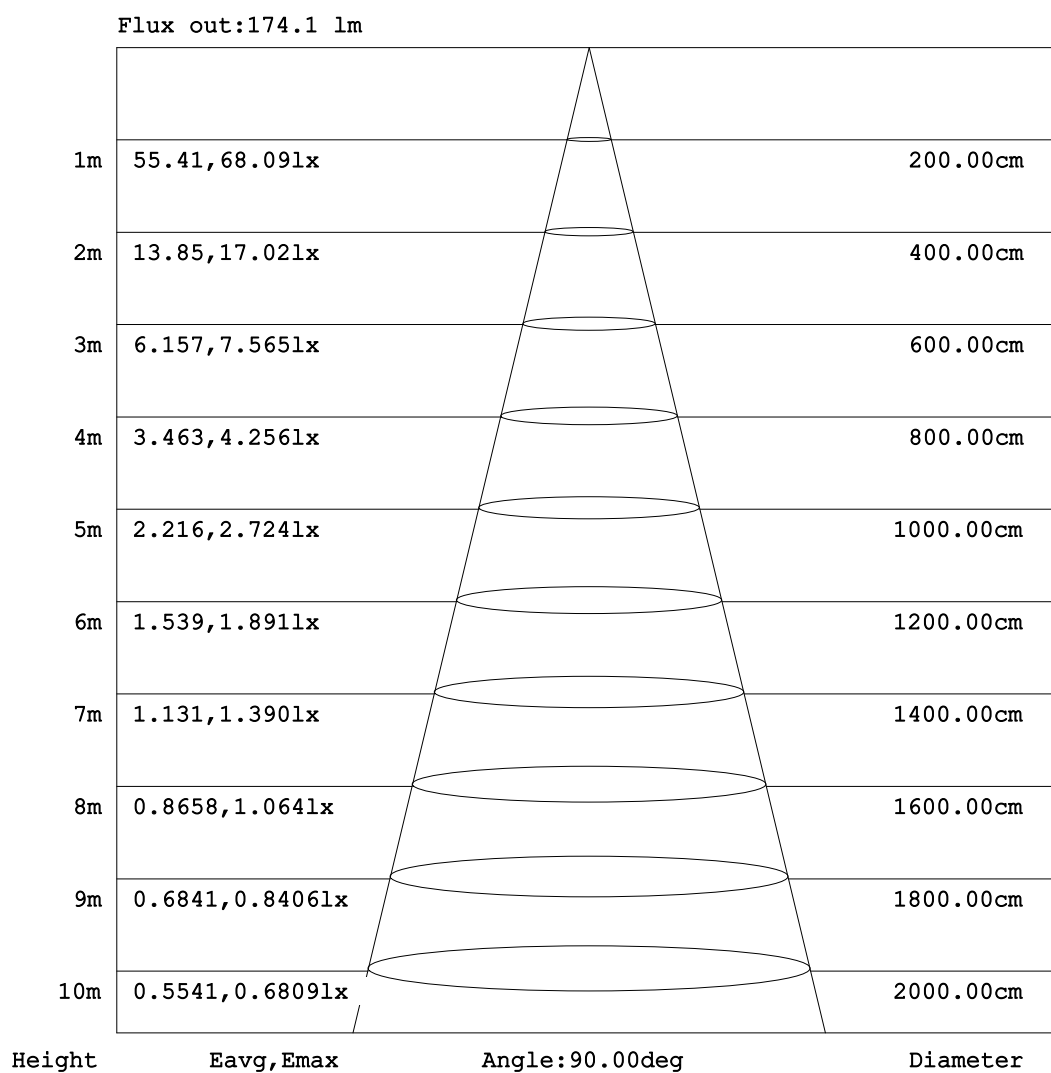
|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.0V I:0.3702A P:44.13W PF:0.9929 Freq:60.01Hz<br>Lamp Flux:2377.1x1 lm |       |                  |
| NAME: IDRC16LAJUDSN 5000K                                                        | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.                                            | SUR.: | Shielding Angle: |



|                      |                                                   |
|----------------------|---------------------------------------------------|
| C Range: 0 - 360DEG  | γ Range: 0 - 180DEG                               |
| C Interval: 22.5DEG  | γ Interval: 1.0DEG                                |
| Test Speed: HIGH     | Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459 |
| Temperature:25.2℃    | Humidity:55.3%                                    |
| Operators:Dano       | Test Distance:2.900m [K=0.8810]                   |
| Test Date:2023-07-04 | Remarks:                                          |

## AAI Figure

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.0V I:0.3702A P:44.13W PF:0.9929 Freq:60.01Hz<br>Lamp Flux:2377.1x1 lm |       |                  |
| NAME: IDRC16LAJUDSN 5000K                                                        | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.                                            | SUR.: | Shielding Angle: |



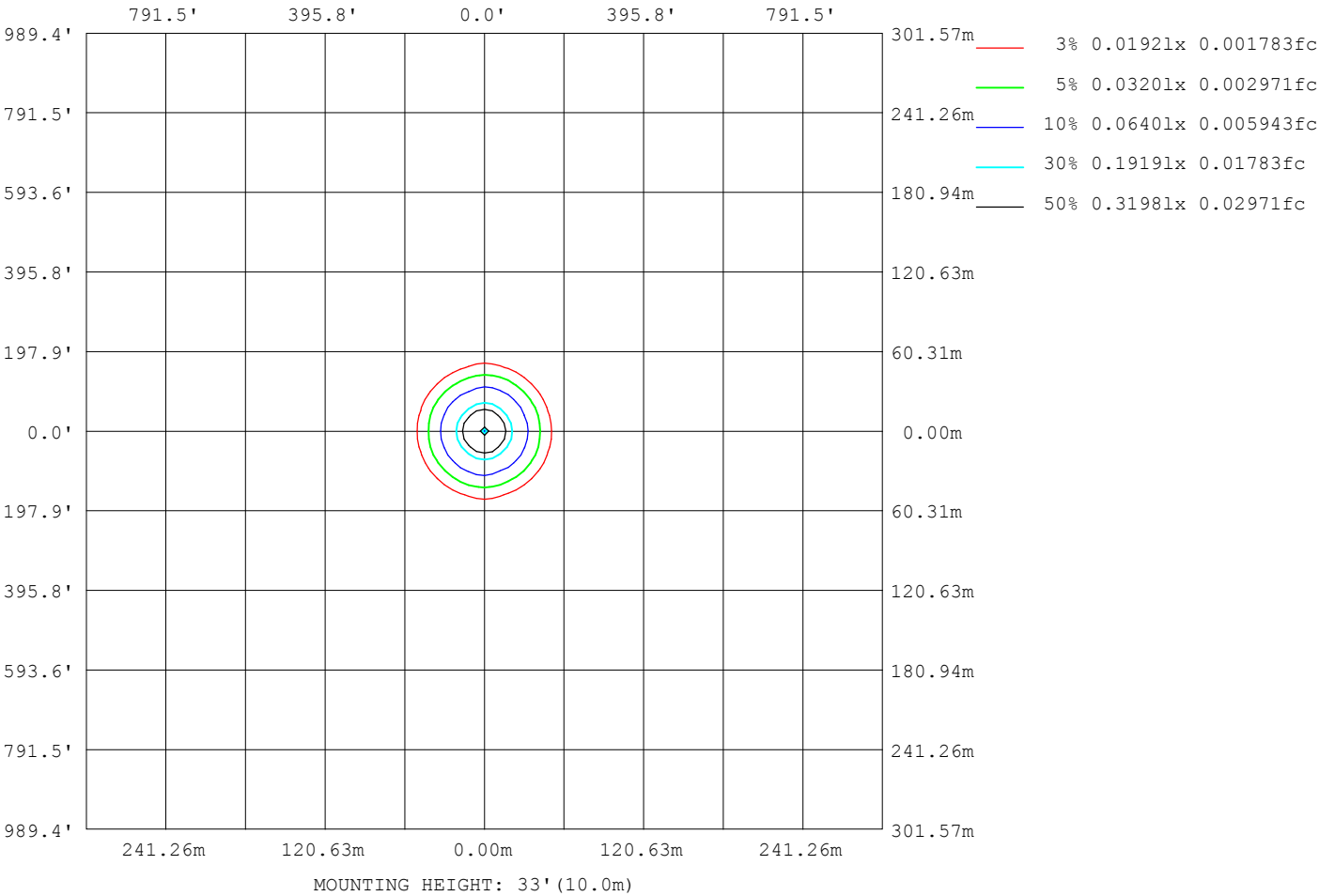
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Dano  
Test Date:2023-07-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.3%  
Test Distance:2.900m [K=0.8810]  
Remarks:

ISOLUX DIAGRAM

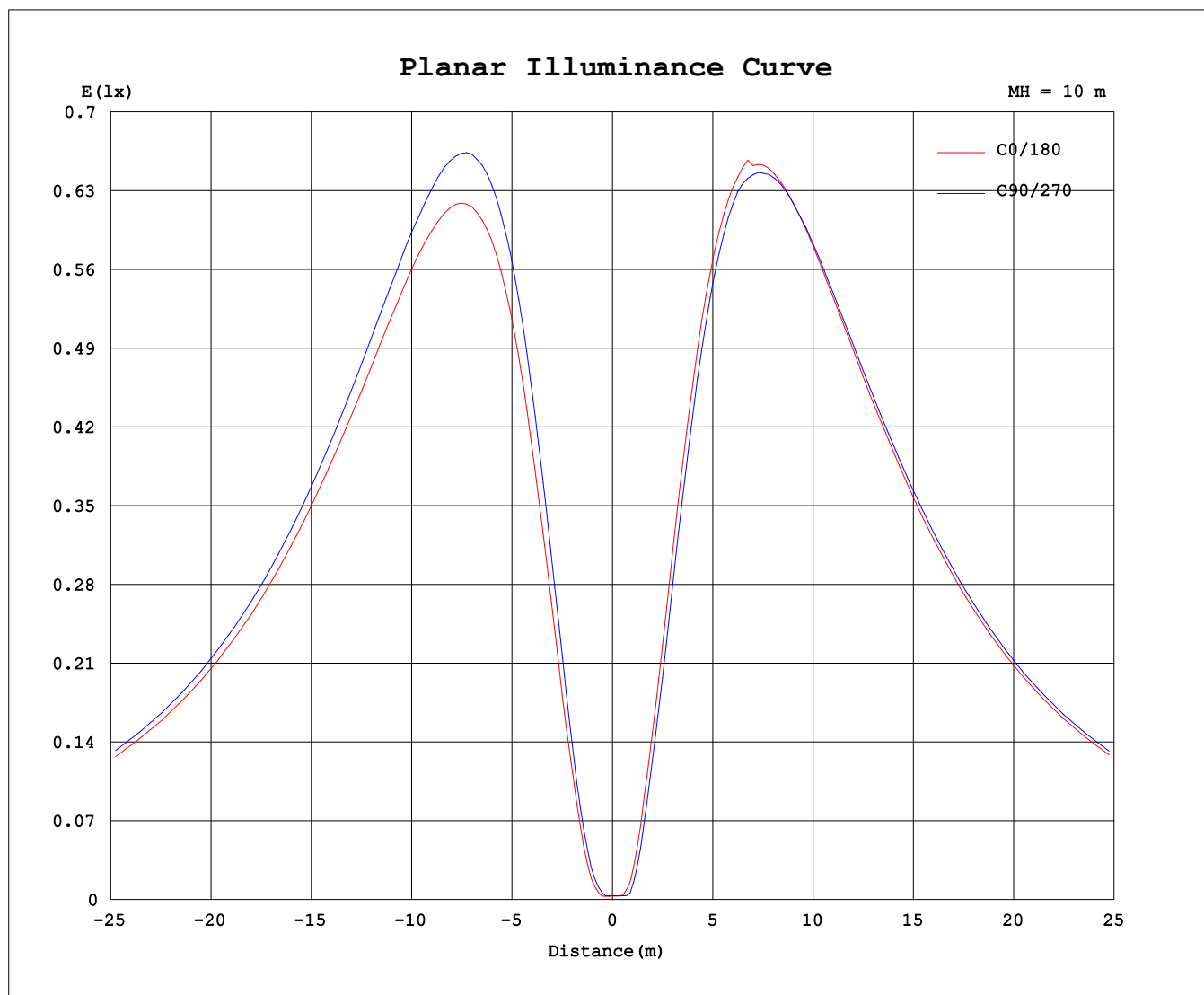
|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.0V I:0.3702A P:44.13W PF:0.9929 Freq:60.01Hz<br>Lamp Flux:2377.1x1 lm |       |                  |
| NAME: IDRC16LAJUDSN 5000K                                                        | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.                                            | SUR.: | Shielding Angle: |



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Dano  
Test Date:2023-07-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.3%  
Test Distance:2.900m [K=0.8810]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.2℃  
Operators: Dano  
Test Date: 2023-07-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
Humidity: 55.3%  
Test Distance: 2.900m [K=0.8810]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                  |       |                  |
|----------------------------------------------------------------------------------|-------|------------------|
| Test:U:120.0V I:0.3702A P:44.13W PF:0.9929 Freq:60.01Hz<br>Lamp Flux:2377.1x1 lm |       |                  |
| NAME: IDRC16LAJUDSN 5000K                                                        | TYPE: | WEIGHT:          |
| SPEC.:                                                                           | DIM.: | SERIAL No.:      |
| MFR.: FOSHAN LEDKEY LIGHTING CO.,LTD.                                            | SUR.: | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 22.5 | 45   | 67.5 | 90   | 112.5 | 135  | 157.5 | 180  | 202.5 | 225  | 247.5 | 270  | 292.5 | 315  | 337.5 |  |  |  |
|--------------------|------|------|------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|--|--|--|
| 0                  | 0.37 | 0.37 | 0.37 | 0.37 | 0.37 | 0.37  | 0.37 | 0.37  | 0.37 | 0.37  | 0.37 | 0.37  | 0.37 | 0.37  | 0.37 | 0.37  |  |  |  |
| 5                  | 1.31 | 1.34 | 1.09 | 1.23 | 1.94 | 2.09  | 1.81 | 1.66  | 1.75 | 1.80  | 1.53 | 1.04  | 0.60 | 0.72  | 0.49 | 0.48  |  |  |  |
| 10                 | 9.73 | 8.60 | 10.7 | 11.7 | 10.9 | 11.2  | 12.6 | 13.4  | 13.3 | 11.4  | 11.4 | 11.4  | 9.72 | 8.32  | 7.62 | 8.54  |  |  |  |
| 15                 | 25.6 | 24.0 | 27.2 | 29.5 | 27.6 | 27.9  | 29.3 | 31.1  | 31.1 | 27.8  | 27.1 | 28.6  | 25.2 | 23.8  | 22.7 | 24.4  |  |  |  |
| 20                 | 46.5 | 43.4 | 47.2 | 50.6 | 48.2 | 48.1  | 49.4 | 52.1  | 53.7 | 48.1  | 47.6 | 49.8  | 45.7 | 44.0  | 42.8 | 44.3  |  |  |  |
| 25                 | 70.7 | 65.2 | 70.0 | 74.0 | 71.7 | 70.4  | 72.0 | 74.9  | 78.8 | 70.1  | 70.6 | 73.0  | 68.8 | 66.6  | 65.6 | 66.5  |  |  |  |
| 30                 | 96.4 | 88.1 | 93.9 | 98.2 | 96.1 | 93.8  | 95.7 | 98.5  | 105  | 93.4  | 94.6 | 97.2  | 93.4 | 90.2  | 89.5 | 89.8  |  |  |  |
| 35                 | 122  | 112  | 118  | 123  | 121  | 117   | 120  | 122   | 130  | 116   | 118  | 121   | 117  | 113   | 113  | 113   |  |  |  |
| 40                 | 148  | 134  | 142  | 146  | 145  | 140   | 143  | 145   | 155  | 138   | 141  | 144   | 142  | 137   | 137  | 135   |  |  |  |
| 45                 | 173  | 157  | 165  | 169  | 168  | 163   | 165  | 167   | 179  | 160   | 163  | 167   | 165  | 160   | 160  | 158   |  |  |  |
| 50                 | 197  | 178  | 185  | 190  | 190  | 184   | 187  | 188   | 203  | 181   | 183  | 188   | 187  | 181   | 181  | 178   |  |  |  |
| 55                 | 219  | 197  | 203  | 210  | 210  | 203   | 206  | 206   | 224  | 199   | 201  | 208   | 208  | 202   | 202  | 198   |  |  |  |
| 60                 | 239  | 215  | 220  | 227  | 228  | 221   | 224  | 223   | 243  | 216   | 218  | 223   | 227  | 220   | 220  | 215   |  |  |  |
| 65                 | 256  | 230  | 236  | 237  | 244  | 236   | 238  | 238   | 259  | 231   | 234  | 231   | 243  | 236   | 235  | 230   |  |  |  |
| 70                 | 271  | 242  | 249  | 241  | 257  | 248   | 249  | 249   | 273  | 243   | 247  | 237   | 256  | 249   | 247  | 243   |  |  |  |
| 75                 | 282  | 253  | 259  | 249  | 267  | 254   | 258  | 258   | 283  | 252   | 257  | 246   | 267  | 256   | 256  | 253   |  |  |  |
| 80                 | 289  | 258  | 266  | 257  | 273  | 253   | 263  | 263   | 290  | 259   | 264  | 254   | 274  | 256   | 263  | 260   |  |  |  |
| 85                 | 293  | 262  | 270  | 261  | 276  | 256   | 266  | 266   | 293  | 262   | 267  | 260   | 277  | 258   | 267  | 263   |  |  |  |
| 90                 | 293  | 263  | 270  | 263  | 275  | 255   | 265  | 265   | 292  | 262   | 267  | 261   | 277  | 260   | 267  | 264   |  |  |  |
| 95                 | 290  | 260  | 266  | 258  | 272  | 250   | 261  | 261   | 287  | 258   | 263  | 257   | 274  | 256   | 264  | 261   |  |  |  |
| 100                | 283  | 254  | 259  | 249  | 265  | 241   | 253  | 253   | 281  | 252   | 256  | 248   | 267  | 248   | 258  | 256   |  |  |  |
| 105                | 272  | 245  | 249  | 240  | 254  | 230   | 242  | 243   | 269  | 243   | 246  | 240   | 257  | 238   | 248  | 247   |  |  |  |
| 110                | 259  | 233  | 236  | 234  | 241  | 220   | 229  | 230   | 255  | 230   | 233  | 234   | 244  | 226   | 235  | 235   |  |  |  |
| 115                | 243  | 219  | 221  | 224  | 225  | 214   | 213  | 215   | 238  | 215   | 218  | 224   | 229  | 219   | 220  | 220   |  |  |  |
| 120                | 224  | 203  | 205  | 209  | 207  | 201   | 196  | 197   | 218  | 198   | 202  | 207   | 211  | 208   | 203  | 203   |  |  |  |
| 125                | 204  | 185  | 187  | 189  | 187  | 183   | 177  | 179   | 197  | 180   | 184  | 188   | 191  | 191   | 185  | 185   |  |  |  |
| 130                | 182  | 165  | 167  | 169  | 166  | 163   | 158  | 158   | 175  | 160   | 164  | 168   | 170  | 171   | 166  | 166   |  |  |  |
| 135                | 158  | 145  | 146  | 146  | 144  | 142   | 138  | 137   | 151  | 139   | 142  | 146   | 148  | 150   | 145  | 145   |  |  |  |
| 140                | 134  | 124  | 123  | 124  | 121  | 120   | 115  | 115   | 127  | 118   | 120  | 123   | 125  | 128   | 123  | 123   |  |  |  |
| 145                | 110  | 102  | 101  | 102  | 98.7 | 98.6  | 93.7 | 93.5  | 103  | 96.2  | 97.0 | 100   | 102  | 105   | 101  | 100   |  |  |  |
| 150                | 85.4 | 80.3 | 77.9 | 78.5 | 75.8 | 76.4  | 71.3 | 71.4  | 78.8 | 74.3  | 74.2 | 77.4  | 78.4 | 82.8  | 79.4 | 77.4  |  |  |  |
| 155                | 61.5 | 58.5 | 55.7 | 56.4 | 53.7 | 54.6  | 49.8 | 50.2  | 55.8 | 52.7  | 52.5 | 54.7  | 55.7 | 58.8  | 58.9 | 55.7  |  |  |  |
| 160                | 39.3 | 38.2 | 35.2 | 35.7 | 33.6 | 34.6  | 30.6 | 30.7  | 35.1 | 32.5  | 33.6 | 33.6  | 35.0 | 37.8  | 39.6 | 36.2  |  |  |  |
| 165                | 20.5 | 20.2 | 18.6 | 17.8 | 17.1 | 17.1  | 15.0 | 14.1  | 17.4 | 15.7  | 16.6 | 16.0  | 17.7 | 19.6  | 21.5 | 19.6  |  |  |  |
| 170                | 6.67 | 5.96 | 6.02 | 5.58 | 5.36 | 4.04  | 3.64 | 3.69  | 4.44 | 3.91  | 3.84 | 4.12  | 5.20 | 6.03  | 6.96 | 7.19  |  |  |  |
| 175                | 0.75 | 0.38 | 0.37 | 0.60 | 0.46 | 0.27  | 0.28 | 0.28  | 0.29 | 0.26  | 0.51 | 0.34  | 0.28 | 0.38  | 0.28 | 0.68  |  |  |  |
| 180                | 0.40 | 0.26 | 0.40 | 0.27 | 0.48 | 0.26  | 0.31 | 0.28  | 0.37 | 0.33  | 0.27 | 0.35  | 0.27 | 0.41  | 0.27 | 0.29  |  |  |  |

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.2℃  
Operators:Dano  
Test Date:2023-07-04

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.00.459  
Humidity:55.3%  
Test Distance:2.900m [K=0.8810]  
Remarks: