

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

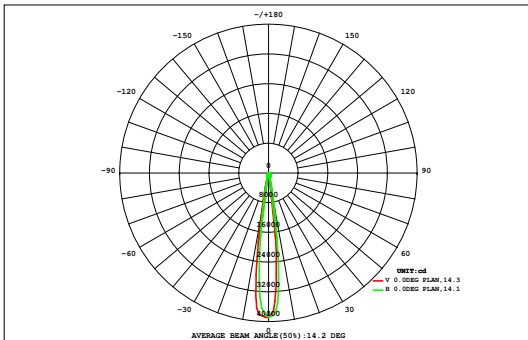
|   |   |   |
|---|---|---|
| Maximum Intensity<br>(Luminaire orientation as tested.) |   | 9056.2 cd per klm.<br>0.0 degrees vertical<br>0.0 degrees horizontal                              |
| Beam Spread   | At 10% of Imax<br>At 50% of Imax<br>At 90% of Imax          | 24.2V x 24.6H<br>14.1V x 14.3H<br>7.5V x 8.3H   |
| Beam Flux   | Total<br>To 10% of Imax<br>To 50% of Imax<br>To 90% of Imax | 1001.4 lumens per klm.<br>547.2 lumens per klm.<br>341.4 lumens per klm.<br>134.3 lumens per klm. |
|   | Upward LOR<br>Downward LOR                                  | 0.0 %<br>100.1 %  |
| Luminaire Efficiency (Light Output Ratio)               |   | 100.0 %   |

**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: M.AKBAK**  
**Test Date: 28 April 2017**

**γ Range: 0 - 90DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 65.0%**  
**Test Distance: 5.680m [K=1.0000]**  
**Remarks: RTL 24 - 40W**  
**4000K**  
**LPC-60-1400mA**

## LUMINAIRE PHOTOMETRIC TEST REPORT

|  |                     |                  |
|--|---------------------|------------------|
| Test:U:230.40V I:0.3486A P:40.018W PF:0.4983 Freq:50.01Hz Lamp Flux:4292.35x1 lm |                     |                  |
| NAME: RTL 24   | TYPE:LED            | WEIGHT:2kg       |
| SPEC.:40W  | DIM.: Ø220mm,H110mm | SERIAL No.:      |
| MFR.: LITPA LIGHTING   | SUR.:               | Shielding Angle: |



| DATA OF LAMP      |         | Eff:107.26lm/W   |          |
|-------------------|---------|------------------|----------|
| MODEL             | RTL 24  | Imax (cd)        | 38872    |
| NOMINAL POWER (W) | 40      | AVAILABILITY (%) | 54.8     |
| RATED VOLTAGE (V) | 220     | Avai. FLUX (lm)  | 2352     |
| NOMINAL FLUX (lm) | 4292.35 | LOR (%)          | 100.0    |
| LAMPS INSIDE      | 1       | TOTAL FLUX (lm)  | 4292     |
| TEST VOLTAGE (V)  | 220     | θ @50% (H, V)    | 14,14DEG |

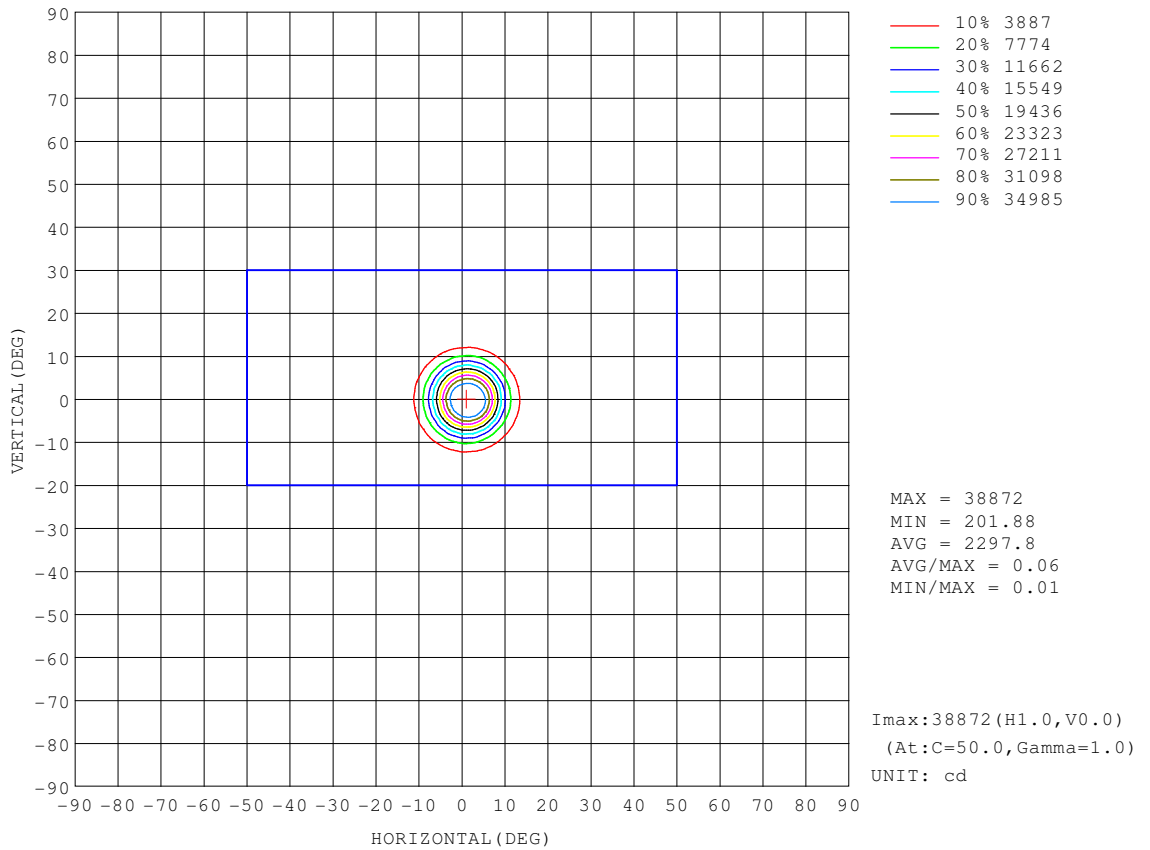
| VERTICAL (DEG) | AREA FLUX DIAGRAM |      |      |      |      |      |      |      |                  |      |      |      |      |      |      | UNIT:lm |      | Φ t  | Φ a  |      |
|----------------|-------------------|------|------|------|------|------|------|------|------------------|------|------|------|------|------|------|---------|------|------|------|------|
|                | 0.00              | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05             | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 | 0.03 | 0.02    | 0.01 | 0.00 | 0.53 | 0.00 |
| 90             | 0.00              | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05             | 0.05 | 0.05 | 0.05 | 0.04 | 0.04 | 0.03 | 0.02    | 0.01 | 0.00 | 0.53 | 0.00 |
| 80             | 0.00              | 0.01 | 0.03 | 0.05 | 0.10 | 0.19 | 0.30 | 0.42 | 0.51             | 0.53 | 0.48 | 0.38 | 0.26 | 0.15 | 0.07 | 0.04    | 0.02 | 0.00 | 3.55 | 0.00 |
| 70             | 0.00              | 0.02 | 0.06 | 0.21 | 0.59 | 1.16 | 1.83 | 2.40 | 2.74             | 2.80 | 2.56 | 2.06 | 1.38 | 0.77 | 0.32 | 0.09    | 0.02 | 0.00 | 19.0 | 0.00 |
| 60             | 0.00              | 0.03 | 0.16 | 0.68 | 1.68 | 3.06 | 4.78 | 6.21 | 7.06             | 7.17 | 6.44 | 5.16 | 3.44 | 1.97 | 0.87 | 0.25    | 0.04 | 0.01 | 49.0 | 0.00 |
| 50             | 0.00              | 0.04 | 0.37 | 1.38 | 3.21 | 6.09 | 9.17 | 11.8 | 13.6             | 13.7 | 12.1 | 9.54 | 6.60 | 3.67 | 1.65 | 0.51    | 0.07 | 0.01 | 93.5 | 0.00 |
| 40             | 0.01              | 0.07 | 0.62 | 2.16 | 5.10 | 9.35 | 13.8 | 18.8 | 21.6             | 21.8 | 19.3 | 14.5 | 10.0 | 5.71 | 2.53 | 0.81    | 0.12 | 0.01 | 146  | 0.00 |
| 30             | 0.01              | 0.11 | 0.86 | 2.94 | 6.85 | 12.2 | 19.3 | 24.0 | 25.6             | 25.8 | 24.1 | 20.1 | 13.1 | 7.57 | 3.41 | 1.09    | 0.17 | 0.01 | 187  | 0.00 |
|                | 0.01              | 0.14 | 1.04 | 3.61 | 7.99 | 15.1 | 22.2 | 28.6 | 56.9             | 66.1 | 32.5 | 22.5 | 16.2 | 8.87 | 4.13 | 1.31    | 0.20 | 0.01 | 287  | 31.8 |
|                | 0.01              | 0.15 | 1.15 | 3.99 | 8.64 | 16.9 | 23.0 | 50.8 | 468              | 625  | 81.3 | 24.2 | 17.8 | 9.55 | 4.51 | 1.42    | 0.23 | 0.01 | 1337 | 1126 |
|                | 0.01              | 0.15 | 1.15 | 3.98 | 8.69 | 16.9 | 23.0 | 51.6 | 481              | 644  | 82.8 | 24.3 | 17.9 | 9.55 | 4.52 | 1.42    | 0.23 | 0.01 | 1371 | 1160 |
|                | 0.01              | 0.14 | 1.05 | 3.61 | 8.06 | 15.1 | 22.2 | 29.3 | 60.5             | 69.9 | 33.4 | 22.5 | 16.3 | 8.80 | 4.16 | 1.31    | 0.20 | 0.01 | 296  | 33.8 |
| -30            | 0.01              | 0.11 | 0.86 | 2.92 | 6.89 | 12.3 | 19.4 | 24.1 | 26.0             | 26.2 | 24.1 | 20.1 | 13.3 | 7.50 | 3.43 | 1.10    | 0.17 | 0.01 | 188  | 0.00 |
| -40            | 0.01              | 0.07 | 0.61 | 2.15 | 5.19 | 9.34 | 13.9 | 19.0 | 21.9             | 22.1 | 19.5 | 14.7 | 10.0 | 5.74 | 2.53 | 0.81    | 0.12 | 0.01 | 148  | 0.00 |
| -50            | 0.00              | 0.04 | 0.36 | 1.37 | 3.24 | 6.13 | 9.06 | 11.8 | 13.6             | 13.8 | 12.2 | 9.70 | 6.71 | 3.69 | 1.68 | 0.51    | 0.07 | 0.01 | 94.1 | 0.00 |
| -60            | 0.00              | 0.03 | 0.16 | 0.67 | 1.67 | 3.09 | 4.77 | 6.23 | 7.13             | 7.20 | 6.51 | 5.17 | 3.44 | 1.97 | 0.89 | 0.25    | 0.04 | 0.00 | 49.2 | 0.00 |
| -70            | 0.00              | 0.02 | 0.06 | 0.21 | 0.58 | 1.17 | 1.79 | 2.36 | 2.67             | 2.73 | 2.51 | 1.99 | 1.39 | 0.77 | 0.32 | 0.09    | 0.02 | 0.00 | 18.7 | 0.00 |
| -80            | 0.00              | 0.01 | 0.03 | 0.05 | 0.10 | 0.19 | 0.30 | 0.42 | 0.50             | 0.51 | 0.47 | 0.38 | 0.26 | 0.14 | 0.07 | 0.04    | 0.01 | 0.00 | 3.47 | 0.00 |
| -90            | 0.00              | 0.01 | 0.01 | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05             | 0.05 | 0.05 | 0.05 | 0.04 | 0.03 | 0.02 | 0.02    | 0.01 | 0.00 | 0.51 | 0.00 |
|                | -90               | -80  | -70  | -60  | -50  | -40  | -30  | -20  | HORIZONTAL (DEG) | 20   | 30   | 40   | 50   | 60   | 70   | 80      | 90   |      |      |      |
| Φ t            | 0.08              | 1.15 | 8.60 | 30.0 | 68.6 | 128  | 189  | 288  | 1209             | 1549 | 361  | 197  | 138  | 76.5 | 35.2 | 11.1    | 1.74 | 0.10 | 4292 | ---  |
| Φ a            | 0.00              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.8 | 961              | 1307 | 73.4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | ---  | 2352 |

one-half-peak spread: U:7.2,D:7.0 , L:7.0,R:7.4 NEMA Beam Type: Type 2

**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:M.AKBAK**  
**Test Date:28 April 2017**  
**γ Range: 0 - 90DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity:65.0%**  
**Test Distance:5.680m [K=1.0000]**  
**Remarks: RTL 24 - 40W**  
**4000K**  
**LPC-60-1400mA**

## ISOCANDELA DIAGRAM

|  |                     |                  |
|--|---------------------|------------------|
| Test:U:230.40V I:0.3486A P:40.018W PF:0.4983 Freq:50.01Hz Lamp Flux:4292.35x1 lm |                     |                  |
| NAME: RTL 24   | TYPE:LED            | WEIGHT:2kg       |
| SPEC.:40W  | DIM.: Ø220mm,H110mm | SERIAL No.:      |
| MFR.: LITPA LIGHTING   | SUR.:               | Shielding Angle: |

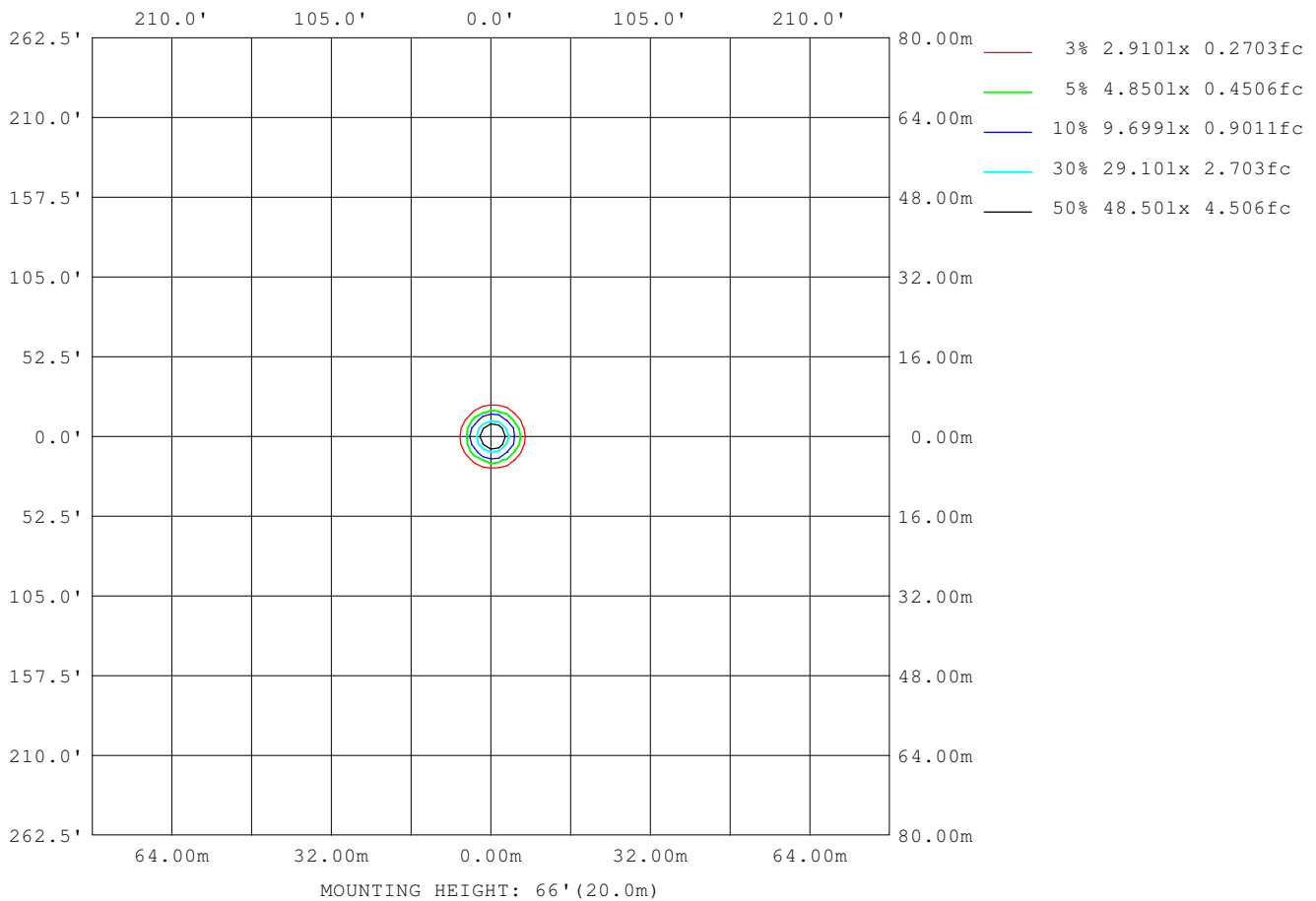


**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:M.AKBAK**  
**Test Date:28 April 2017**

**γ Range: 0 - 90DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity:65.0%**  
**Test Distance:5.680m [K=1.0000]**  
**Remarks: RTL 24 - 40W**  
**4000K**  
**LPC-60-1400mA**

## ISOLUX DIAGRAM

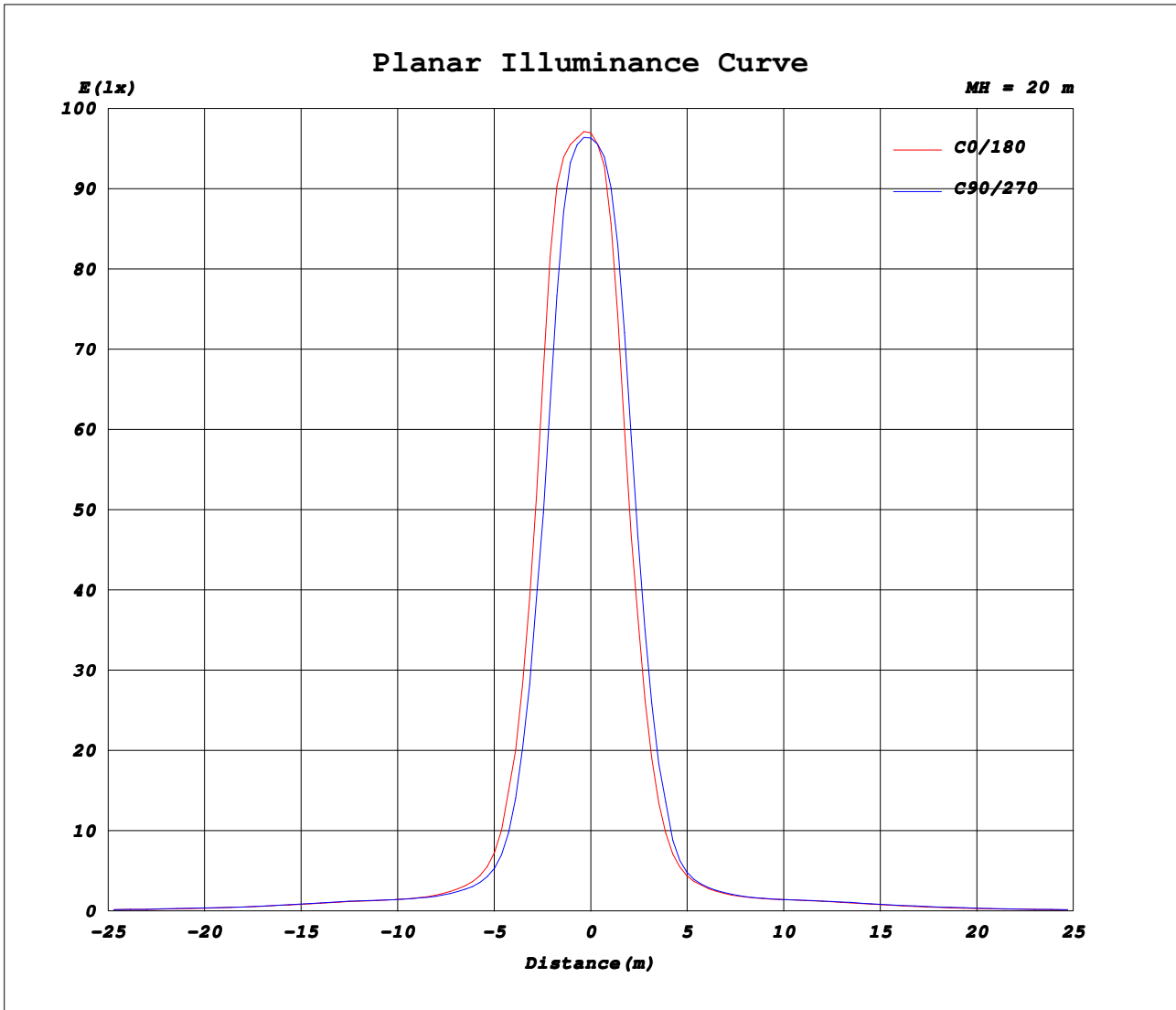
|  |                     |                  |
|--|---------------------|------------------|
| Test:U:230.40V I:0.3486A P:40.018W PF:0.4983 Freq:50.01Hz Lamp Flux:4292.35x1 lm |                     |                  |
| NAME: RTL 24   | TYPE:LED            | WEIGHT:2kg       |
| SPEC.:40W  | DIM.: Ø220mm,H110mm | SERIAL No.:      |
| MFR.: LITPA LIGHTING   | SUR.:               | Shielding Angle: |



**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: M.AKBAK**  
**Test Date: 28 April 2017**

**γ Range: 0 - 90DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 65.0%**  
**Test Distance: 5.680m [K=1.0000]**  
**Remarks: RTL 24 - 40W**  
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**LPC-60-1400mA**

## Planar Illuminance Curve



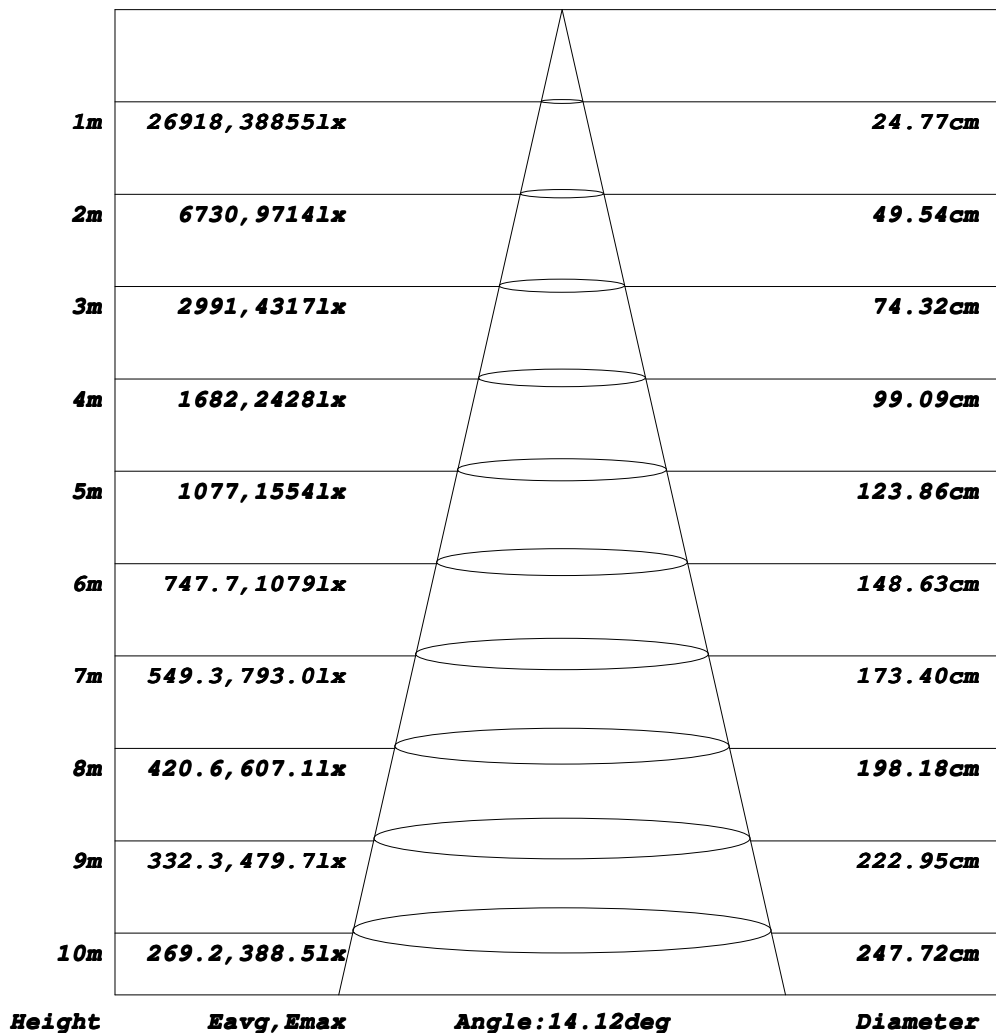
**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: M.AKBAK**  
**Test Date: 28 April 2017**

**γ Range: 0 - 90DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 65.0%**  
**Test Distance: 5.680m [K=1.0000]**  
**Remarks: RTL 24 - 40W**  
**4000K**  
**LPC-60-1400mA**

## AAI Figure

|  |                     |                  |
|--|---------------------|------------------|
| Test:U:230.40V I:0.3486A P:40.018W PF:0.4983 Freq:50.01Hz Lamp Flux:4292.35x1 lm |                     |                  |
| NAME: RTL 24   | TYPE:LED            | WEIGHT:2kg       |
| SPEC.:40W  | DIM.: Ø220mm,H110mm | SERIAL No.:      |
| MFR.: LITPA LIGHTING   | SUR.:               | Shielding Angle: |

Flux out:1670 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:M.AKBAK  
 Test Date:28 April 2017

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
 Humidity:65.0%  
 Test Distance:5.680m [K=1.0000]  
 Remarks: RTL 24 - 40W  
 4000K  
 LPC-60-1400mA

## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                     |                  |
|--|---------------------|------------------|
| Test:U:230.40V I:0.3486A P:40.018W PF:0.4983 Freq:50.01Hz Lamp Flux:4292.35x1 lm |                     |                  |
| NAME: RTL 24   | TYPE:LED            | WEIGHT:2kg       |
| SPEC.:40W  | DIM.: Ø220mm,H110mm | SERIAL No.:      |
| MFR.: LITPA LIGHTING   | SUR.:               | Shielding Angle: |

Table--1

UNIT:  $\mu$ Á10cd

| H (DEG) \ V (DEG) | -90  | -85  | -80  | -75  | -70  | -65  | -60  | -55  | -50  | -45  | -40  | -35  | -30  | -25  | -20  | -15  | -10  | -5   | 0    |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -90               | 0.07 | 0.07 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 |
| -85               | 0.07 | 0.07 | 0.06 | 0.07 | 0.07 | 0.08 | 0.09 | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 | 0.13 | 0.14 | 0.15 | 0.15 | 0.15 | 0.15 | 0.15 |
| -80               | 0.07 | 0.07 | 0.07 | 0.09 | 0.11 | 0.13 | 0.16 | 0.18 | 0.21 | 0.23 | 0.26 | 0.27 | 0.28 | 0.30 | 0.31 | 0.31 | 0.31 | 0.31 | 0.32 |
| -75               | 0.07 | 0.07 | 0.09 | 0.12 | 0.16 | 0.21 | 0.26 | 0.30 | 0.34 | 0.38 | 0.46 | 0.56 | 0.65 | 0.80 | 0.95 | 1.11 | 1.21 | 1.33 | 1.41 |
| -70               | 0.07 | 0.08 | 0.11 | 0.16 | 0.23 | 0.30 | 0.36 | 0.45 | 0.69 | 1.00 | 1.42 | 1.97 | 2.39 | 2.87 | 3.38 | 3.70 | 3.87 | 4.13 | 4.32 |
| -65               | 0.07 | 0.08 | 0.13 | 0.21 | 0.30 | 0.39 | 0.60 | 1.08 | 1.77 | 2.53 | 3.56 | 4.35 | 5.43 | 6.30 | 7.07 | 7.58 | 8.01 | 8.46 | 8.68 |
| -60               | 0.07 | 0.09 | 0.16 | 0.26 | 0.37 | 0.60 | 1.29 | 2.21 | 3.43 | 4.72 | 6.50 | 8.18 | 9.54 | 11.1 | 12.6 | 13.8 | 14.4 | 15.1 | 15.7 |
| -55               | 0.07 | 0.10 | 0.19 | 0.31 | 0.47 | 1.10 | 2.22 | 3.69 | 5.46 | 7.69 | 9.87 | 12.3 | 14.5 | 17.1 | 19.5 | 21.4 | 22.7 | 23.6 | 24.0 |
| -50               | 0.07 | 0.11 | 0.22 | 0.36 | 0.69 | 1.78 | 3.36 | 5.44 | 8.14 | 10.8 | 14.1 | 17.2 | 21.7 | 24.5 | 26.8 | 28.9 | 30.9 | 32.6 | 33.8 |
| -45               | 0.07 | 0.12 | 0.25 | 0.41 | 1.10 | 2.59 | 4.68 | 7.58 | 11.0 | 14.7 | 19.1 | 25.2 | 29.1 | 32.7 | 36.0 | 40.8 | 43.7 | 45.0 | 45.8 |
| -40               | 0.07 | 0.13 | 0.28 | 0.49 | 1.54 | 3.51 | 6.13 | 9.92 | 14.0 | 18.8 | 25.5 | 30.7 | 36.8 | 41.5 | 45.8 | 52.1 | 55.4 | 57.3 | 59.5 |
| -35               | 0.07 | 0.14 | 0.30 | 0.60 | 2.03 | 4.39 | 7.88 | 12.1 | 16.8 | 24.6 | 30.6 | 37.7 | 43.8 | 49.7 | 57.7 | 64.2 | 70.8 | 73.7 | 75.6 |
| -30               | 0.07 | 0.14 | 0.32 | 0.74 | 2.54 | 5.22 | 9.32 | 14.1 | 20.2 | 28.3 | 35.6 | 43.5 | 50.5 | 59.6 | 71.1 | 79.0 | 81.3 | 82.0 | 82.3 |
| -25               | 0.07 | 0.15 | 0.34 | 0.95 | 3.17 | 6.18 | 10.7 | 16.1 | 23.8 | 31.9 | 40.5 | 48.9 | 58.5 | 71.6 | 81.0 | 82.3 | 82.7 | 82.9 | 83.9 |
| -20               | 0.07 | 0.16 | 0.36 | 1.12 | 3.54 | 7.08 | 11.9 | 18.3 | 26.6 | 34.7 | 44.3 | 53.9 | 68.4 | 79.7 | 82.2 | 83.6 | 89.6 | 99.7 | 107  |
| -15               | 0.07 | 0.16 | 0.37 | 1.25 | 3.84 | 7.66 | 13.0 | 20.5 | 28.5 | 37.2 | 47.4 | 59.7 | 74.5 | 81.9 | 82.9 | 93.0 | 122  | 162  | 191  |
| -10               | 0.07 | 0.17 | 0.38 | 1.34 | 4.08 | 8.18 | 13.8 | 21.7 | 29.6 | 39.0 | 50.3 | 65.5 | 78.0 | 81.5 | 87.9 | 119  | 199  | 486  | 854  |
| -5                | 0.07 | 0.17 | 0.39 | 1.40 | 4.22 | 8.52 | 14.4 | 22.6 | 30.5 | 39.6 | 52.7 | 68.2 | 79.3 | 81.7 | 94.3 | 149  | 401  | 1593 | 3102 |
| 0                 | 0.07 | 0.17 | 0.39 | 1.42 | 4.26 | 8.66 | 14.6 | 22.8 | 30.7 | 39.3 | 54.0 | 69.2 | 79.7 | 82.1 | 97.7 | 165  | 566  | 2430 | 3880 |
| 5                 | 0.07 | 0.17 | 0.39 | 1.40 | 4.21 | 8.54 | 14.3 | 22.5 | 30.5 | 39.4 | 52.8 | 67.8 | 79.4 | 81.2 | 93.2 | 148  | 392  | 1567 | 2917 |
| 10                | 0.07 | 0.17 | 0.38 | 1.33 | 4.07 | 8.20 | 13.7 | 21.8 | 29.7 | 38.3 | 49.6 | 65.2 | 78.7 | 81.3 | 86.6 | 115  | 190  | 450  | 771  |
| 15                | 0.07 | 0.16 | 0.37 | 1.23 | 3.84 | 7.63 | 12.8 | 20.6 | 28.5 | 36.8 | 47.1 | 60.4 | 74.8 | 82.0 | 82.6 | 90.8 | 117  | 150  | 176  |
| 20                | 0.07 | 0.16 | 0.36 | 1.10 | 3.55 | 7.00 | 11.9 | 18.5 | 26.7 | 34.8 | 43.3 | 53.6 | 67.2 | 80.6 | 82.0 | 83.0 | 87.7 | 96.3 | 102  |
| 25                | 0.07 | 0.15 | 0.35 | 0.94 | 3.20 | 6.19 | 10.7 | 16.2 | 23.9 | 31.7 | 40.0 | 48.5 | 58.2 | 70.9 | 81.0 | 82.3 | 81.8 | 82.8 | 83.4 |
| 30                | 0.07 | 0.15 | 0.33 | 0.76 | 2.55 | 5.38 | 9.47 | 14.2 | 20.2 | 28.3 | 35.3 | 43.4 | 50.6 | 59.1 | 69.2 | 78.7 | 80.7 | 81.5 | 81.6 |
| 35                | 0.07 | 0.14 | 0.31 | 0.61 | 2.07 | 4.56 | 8.00 | 12.2 | 16.6 | 23.6 | 30.4 | 37.9 | 43.8 | 49.2 | 57.7 | 63.3 | 68.8 | 72.5 | 73.5 |
| 40                | 0.07 | 0.13 | 0.28 | 0.50 | 1.53 | 3.52 | 6.14 | 9.99 | 13.9 | 18.2 | 25.2 | 30.5 | 37.1 | 41.8 | 46.0 | 51.8 | 55.4 | 57.5 | 59.1 |
| 45                | 0.07 | 0.12 | 0.26 | 0.42 | 1.07 | 2.68 | 4.86 | 7.75 | 11.0 | 14.6 | 18.9 | 24.8 | 29.4 | 33.1 | 36.5 | 40.2 | 43.4 | 45.1 | 45.3 |
| 50                | 0.07 | 0.11 | 0.23 | 0.37 | 0.70 | 1.77 | 3.41 | 5.49 | 8.27 | 10.8 | 13.9 | 16.9 | 21.6 | 24.6 | 27.2 | 28.8 | 31.0 | 32.5 | 33.5 |
| 55                | 0.07 | 0.10 | 0.20 | 0.32 | 0.48 | 1.06 | 2.22 | 3.77 | 5.53 | 7.69 | 9.95 | 12.1 | 14.2 | 17.3 | 19.4 | 21.3 | 22.6 | 23.4 | 23.6 |
| 60                | 0.07 | 0.09 | 0.17 | 0.27 | 0.38 | 0.60 | 1.29 | 2.18 | 3.51 | 4.94 | 6.24 | 8.02 | 9.63 | 11.1 | 12.7 | 14.2 | 14.7 | 15.1 | 15.6 |
| 65                | 0.07 | 0.09 | 0.14 | 0.22 | 0.31 | 0.39 | 0.59 | 1.04 | 1.77 | 2.53 | 3.57 | 4.36 | 5.47 | 6.49 | 7.12 | 7.66 | 8.37 | 8.78 | 8.85 |
| 70                | 0.07 | 0.08 | 0.12 | 0.17 | 0.24 | 0.31 | 0.36 | 0.45 | 0.65 | 1.04 | 1.43 | 1.94 | 2.51 | 2.93 | 3.41 | 3.81 | 4.08 | 4.32 | 4.44 |
| 75                | 0.07 | 0.08 | 0.10 | 0.13 | 0.17 | 0.22 | 0.26 | 0.31 | 0.34 | 0.38 | 0.45 | 0.54 | 0.64 | 0.80 | 0.89 | 1.10 | 1.20 | 1.31 | 1.38 |
| 80                | 0.07 | 0.07 | 0.08 | 0.10 | 0.12 | 0.14 | 0.16 | 0.19 | 0.22 | 0.24 | 0.26 | 0.28 | 0.29 | 0.30 | 0.30 | 0.31 | 0.31 | 0.32 | 0.32 |
| 85                | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.09 | 0.09 | 0.10 | 0.11 | 0.12 | 0.13 | 0.13 | 0.14 | 0.14 | 0.15 | 0.15 | 0.16 | 0.16 | 0.16 |
| 90                | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |

**C Range: 0 - 360DEG**  
**C Interval: 10.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: M.AKBAK**  
**Test Date: 28 April 2017**

**$\gamma$  Range: 0 - 90DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 65.0%**  
**Test Distance: 5.680m [K=1.0000]**  
**Remarks: RTL 24 - 40W**  
**4000K**  
**LPC-60-1400mA**

## LUMINOUS DISTRIBUTION INTENSITY DATA

|  |                     |                  |
|--|---------------------|------------------|
| Test:U:230.40V I:0.3486A P:40.018W PF:0.4983 Freq:50.01Hz Lamp Flux:4292.35x1 lm |                     |                  |
| NAME: RTL 24   | TYPE:LED            | WEIGHT:2kg       |
| SPEC.:40W  | DIM.: Ø220mm,H110mm | SERIAL No.:      |
| MFR.: LITPA LIGHTING   | SUR.:               | Shielding Angle: |

Table--2

UNIT:  $\mu\text{A}10\text{cd}$

| H (DEG) \ V (DEG) | 5    | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85   | 90   |
|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| -90               | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| -85               | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.15 | 0.14 | 0.13 | 0.12 | 0.11 | 0.11 | 0.10 | 0.09 | 0.08 | 0.07 |
| -80               | 0.32 | 0.33 | 0.33 | 0.33 | 0.32 | 0.31 | 0.31 | 0.31 | 0.29 | 0.26 | 0.24 | 0.21 | 0.19 | 0.16 | 0.13 | 0.11 | 0.09 | 0.07 |
| -75               | 1.39 | 1.34 | 1.34 | 1.27 | 1.14 | 0.99 | 0.83 | 0.67 | 0.52 | 0.41 | 0.36 | 0.32 | 0.28 | 0.23 | 0.18 | 0.14 | 0.10 | 0.07 |
| -70               | 4.26 | 4.09 | 4.10 | 3.94 | 3.38 | 3.11 | 2.60 | 2.07 | 1.54 | 1.09 | 0.73 | 0.47 | 0.37 | 0.30 | 0.23 | 0.17 | 0.11 | 0.07 |
| -65               | 8.68 | 8.36 | 7.93 | 7.58 | 6.94 | 6.26 | 5.32 | 4.39 | 3.49 | 2.47 | 1.69 | 1.02 | 0.54 | 0.37 | 0.29 | 0.20 | 0.12 | 0.07 |
| -60               | 15.3 | 14.8 | 14.7 | 13.6 | 11.9 | 10.6 | 9.00 | 7.65 | 5.93 | 4.50 | 3.18 | 2.00 | 1.06 | 0.49 | 0.34 | 0.23 | 0.14 | 0.07 |
| -55               | 23.9 | 23.3 | 22.6 | 21.1 | 18.6 | 15.6 | 13.5 | 11.3 | 8.96 | 6.87 | 4.84 | 3.29 | 1.82 | 0.79 | 0.39 | 0.27 | 0.15 | 0.07 |
| -50               | 33.1 | 31.9 | 30.1 | 28.7 | 26.3 | 24.2 | 19.7 | 15.5 | 12.6 | 9.87 | 6.97 | 4.70 | 2.65 | 1.28 | 0.48 | 0.30 | 0.16 | 0.07 |
| -45               | 45.6 | 44.4 | 41.7 | 38.5 | 35.0 | 31.4 | 27.1 | 21.8 | 16.6 | 13.1 | 9.59 | 6.10 | 3.83 | 1.83 | 0.64 | 0.33 | 0.17 | 0.07 |
| -40               | 58.1 | 56.6 | 53.5 | 48.0 | 44.0 | 39.5 | 33.2 | 27.7 | 21.6 | 16.1 | 11.8 | 7.83 | 4.93 | 2.40 | 0.84 | 0.36 | 0.18 | 0.07 |
| -35               | 74.6 | 72.4 | 66.5 | 60.0 | 52.6 | 46.7 | 40.4 | 33.3 | 26.9 | 19.5 | 14.1 | 9.82 | 5.96 | 3.17 | 1.11 | 0.38 | 0.20 | 0.07 |
| -30               | 81.9 | 81.7 | 79.9 | 73.1 | 63.2 | 54.3 | 46.7 | 38.3 | 31.1 | 23.3 | 16.5 | 11.4 | 7.08 | 3.80 | 1.45 | 0.41 | 0.21 | 0.07 |
| -25               | 83.2 | 82.3 | 81.8 | 80.4 | 74.6 | 63.1 | 52.9 | 43.3 | 35.0 | 26.8 | 19.3 | 12.8 | 8.24 | 4.35 | 1.67 | 0.43 | 0.21 | 0.07 |
| -20               | 105  | 94.3 | 85.8 | 81.6 | 80.1 | 73.1 | 58.6 | 47.5 | 37.7 | 29.4 | 22.0 | 14.4 | 9.11 | 4.81 | 1.88 | 0.46 | 0.22 | 0.07 |
| -15               | 180  | 143  | 105  | 86.4 | 81.4 | 77.2 | 65.6 | 51.6 | 40.1 | 31.5 | 23.7 | 15.6 | 9.76 | 5.26 | 2.11 | 0.49 | 0.23 | 0.07 |
| -10               | 638  | 283  | 150  | 97.4 | 82.4 | 78.7 | 70.9 | 55.0 | 42.8 | 33.0 | 24.6 | 16.6 | 10.2 | 5.65 | 2.29 | 0.51 | 0.23 | 0.07 |
| -5                | 2477 | 768  | 208  | 114  | 85.2 | 79.1 | 73.3 | 57.7 | 43.5 | 33.9 | 25.1 | 17.4 | 10.5 | 5.90 | 2.42 | 0.52 | 0.24 | 0.07 |
| 0                 | 3655 | 1186 | 247  | 120  | 85.7 | 79.1 | 74.0 | 58.2 | 43.2 | 34.2 | 25.3 | 17.8 | 10.5 | 6.01 | 2.48 | 0.52 | 0.24 | 0.07 |
| 5                 | 2390 | 760  | 205  | 112  | 84.7 | 79.5 | 73.2 | 56.7 | 43.4 | 33.9 | 25.1 | 17.3 | 10.5 | 5.88 | 2.41 | 0.52 | 0.24 | 0.07 |
| 10                | 634  | 269  | 144  | 95.5 | 82.6 | 79.1 | 70.8 | 54.4 | 42.9 | 33.0 | 24.5 | 16.5 | 10.3 | 5.61 | 2.28 | 0.51 | 0.23 | 0.07 |
| 15                | 170  | 136  | 102  | 85.7 | 81.3 | 77.4 | 65.2 | 51.5 | 41.0 | 31.7 | 23.6 | 15.5 | 9.75 | 5.24 | 2.10 | 0.49 | 0.23 | 0.07 |
| 20                | 101  | 92.2 | 85.3 | 81.8 | 80.7 | 72.2 | 57.7 | 48.0 | 38.2 | 29.7 | 21.8 | 14.3 | 9.01 | 4.79 | 1.86 | 0.46 | 0.22 | 0.07 |
| 25                | 83.3 | 82.0 | 81.8 | 81.1 | 74.8 | 62.3 | 52.2 | 43.4 | 35.0 | 27.0 | 18.9 | 12.9 | 8.05 | 4.25 | 1.67 | 0.43 | 0.22 | 0.07 |
| 30                | 81.7 | 80.6 | 79.5 | 72.6 | 62.5 | 53.4 | 46.4 | 38.5 | 31.1 | 23.3 | 16.5 | 11.4 | 6.94 | 3.89 | 1.46 | 0.41 | 0.21 | 0.07 |
| 35                | 73.3 | 70.4 | 65.3 | 59.8 | 51.9 | 46.3 | 40.5 | 33.1 | 26.5 | 19.3 | 14.2 | 9.73 | 5.90 | 3.09 | 1.12 | 0.39 | 0.20 | 0.07 |
| 40                | 58.1 | 56.4 | 53.3 | 47.7 | 43.7 | 39.0 | 32.9 | 27.2 | 21.7 | 15.9 | 11.7 | 8.07 | 4.83 | 2.37 | 0.84 | 0.36 | 0.19 | 0.07 |
| 45                | 45.3 | 44.3 | 41.9 | 37.5 | 34.4 | 30.7 | 26.6 | 22.1 | 16.6 | 12.5 | 9.32 | 6.12 | 3.80 | 1.84 | 0.64 | 0.33 | 0.18 | 0.07 |
| 50                | 32.7 | 31.3 | 29.4 | 27.9 | 25.8 | 23.6 | 19.0 | 15.8 | 12.3 | 9.70 | 6.78 | 4.63 | 2.64 | 1.31 | 0.48 | 0.30 | 0.16 | 0.07 |
| 55                | 23.7 | 23.3 | 22.3 | 20.8 | 18.5 | 15.9 | 13.5 | 11.3 | 8.99 | 6.71 | 4.88 | 3.15 | 1.87 | 0.87 | 0.40 | 0.27 | 0.15 | 0.07 |
| 60                | 15.4 | 15.1 | 14.4 | 13.5 | 12.3 | 10.8 | 9.25 | 7.56 | 5.89 | 4.50 | 3.04 | 1.99 | 1.10 | 0.51 | 0.35 | 0.24 | 0.14 | 0.07 |
| 65                | 8.97 | 8.82 | 8.30 | 7.81 | 7.30 | 6.48 | 5.26 | 4.36 | 3.50 | 2.46 | 1.77 | 1.05 | 0.59 | 0.39 | 0.30 | 0.20 | 0.13 | 0.07 |
| 70                | 4.47 | 4.34 | 4.11 | 3.82 | 3.49 | 2.98 | 2.61 | 2.03 | 1.53 | 1.17 | 0.75 | 0.46 | 0.38 | 0.32 | 0.24 | 0.17 | 0.11 | 0.07 |
| 75                | 1.43 | 1.42 | 1.36 | 1.25 | 1.13 | 0.95 | 0.80 | 0.68 | 0.54 | 0.42 | 0.37 | 0.33 | 0.29 | 0.24 | 0.19 | 0.14 | 0.10 | 0.07 |
| 80                | 0.32 | 0.33 | 0.33 | 0.33 | 0.33 | 0.32 | 0.32 | 0.31 | 0.29 | 0.27 | 0.25 | 0.22 | 0.20 | 0.17 | 0.14 | 0.12 | 0.09 | 0.07 |
| 85                | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 | 0.17 | 0.16 | 0.16 | 0.16 | 0.15 | 0.14 | 0.13 | 0.12 | 0.11 | 0.10 | 0.09 | 0.08 | 0.07 |
| 90                | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 |

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: M.AKBAK  
 Test Date: 28 April 2017

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
 Humidity: 65.0%  
 Test Distance: 5.680m [K=1.0000]  
 Remarks: RTL 24 - 40W  
 4000K  
 LPC-60-1400mA