

Low Voltage Track System Module ML26-RS40-12W-940-45



|                     |         |                          |
|---------------------|---------|--------------------------|
| Light Output Ratio: | 100.0%  |                          |
| Luminaire Power:    | 11.68 W |                          |
| SHR Nominal:        | 0.50    | Calculated using the TM5 |
| SHR Maximum:        | 0.65    | fine grid method.        |

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-05-15

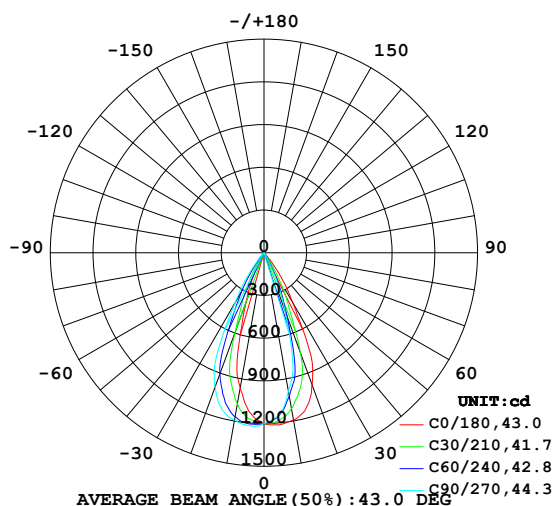
γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

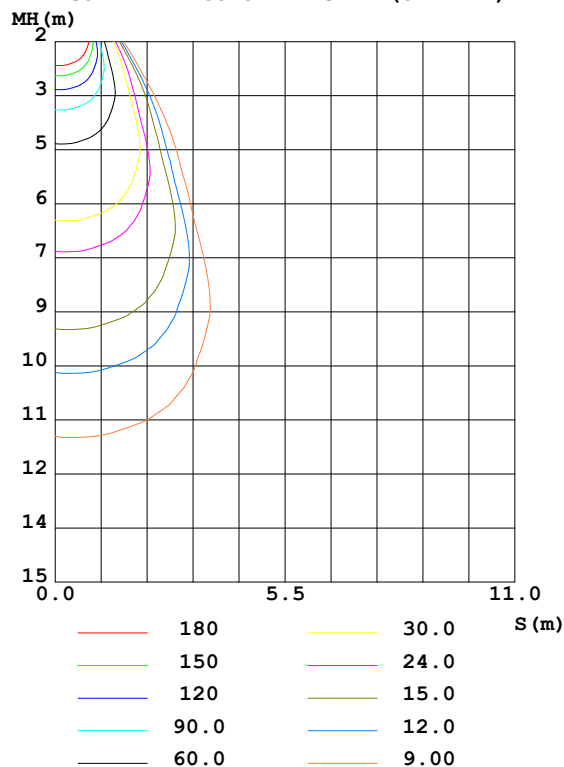
|   |                                      |  |
|---|--------------------------------------|--|
| Test:U:48.00V I:0.2434A P:11.68W PF:1.000 Freq:0Hz Lamp Flux:641.875x1 lm |                                      |  |
| NAME: ML26-RS40-12W-940-45  | TYPE:Low Voltage Track System Module |  |
| SPEC.:4000K   | DIM.: $\phi$ 40mm*H105mm             |  |
| MFR.: NEKO LIGHTING AG  |                                      |  |

| DATA OF LAMP      |               | PHOTOMETRIC DATA Eff: 54.94 lm/W |        |                         |          |
|-------------------|---------------|----------------------------------|--------|-------------------------|----------|
| MODEL             | CITIZEN-4000K | I <sub>max</sub> (cd)            | 1227   | S/MH (C0/180)           | 0.52     |
| NOMINAL POWER (W) | 12            | LOR (%)                          | 100.0  | S/MH (C90/270)          | 0.79     |
| RATED VOLTAGE (V) | 48            | TOTAL FLUX (lm)                  | 641.87 | $\eta$ UP,DN (C0-180)   | 0.0,40.1 |
| NOMINAL FLUX (lm) | 641.875       | CIE CLASS                        | DIRECT | $\eta$ UP,DN (C180-360) | 0.0,59.9 |
| LAMPS INSIDE      | 1             | $\eta$ up (%)                    | 0.0    | CIBSE SHR NOM           | 0.50     |
| TEST VOLTAGE (V)  | 48            | $\eta$ down (%)                  | 100.0  | CIBSE SHR MAX           | 0.65     |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Jason  
 Test Date: 2020-05-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 58%  
 Test Distance: 5.850m [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       | 1192                  | 1063   | 988.1  | 1022   | 963.8  | 1131   | 1194   | 1192   | 0- 10    | 109.9       | 109.9        | 17.1,17.1  |
| 20       | 988.2                 | 587.5  | 428.0  | 457.0  | 369.8  | 778.8  | 1004   | 970.0  | 10- 20   | 258.2       | 368.1        | 57.3,57.3  |
| 30       | 405.2                 | 128.7  | 48.23  | 64.79  | 40.45  | 221.5  | 410.7  | 402.0  | 20- 30   | 202.8       | 570.9        | 88.9,88.9  |
| 40       | 65.06                 | 7.732  | 4.737  | 5.044  | 4.204  | 13.95  | 51.86  | 45.83  | 30- 40   | 62.28       | 633.2        | 98.7,98.7  |
| 50       | 5.129                 | 2.039  | 1.233  | 1.269  | 1.025  | 2.658  | 4.595  | 4.506  | 40- 50   | 6.808       | 640.0        | 99.7,99.7  |
| 60       | 1.263                 | 0.4293 | 0.2994 | 0.2880 | 0.2293 | 0.6047 | 1.098  | 1.066  | 50- 60   | 1.351       | 641.4        | 99.9,99.9  |
| 70       | 0.2985                | 0.1057 | 0.0983 | 0.0758 | 0.0595 | 0.1633 | 0.2418 | 0.2496 | 60- 70   | 0.3455      | 641.7        | 100,100    |
| 80       | 0.0885                | 0.0331 | 0.0458 | 0.0369 | 0.0199 | 0.0573 | 0.0631 | 0.0717 | 70- 80   | 0.0990      | 641.8        | 100,100    |
| 90       | 0.0375                | 0.0353 | 0.0371 | 0.0390 | 0.0199 | 0.0220 | 0.0284 | 0.0282 | 80- 90   | 0.0417      | 641.9        | 100,100    |
| 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     |              |            |

Conical surface Flux(90deg): 638.3 lm

%lum = 99.4%

%lamp = 99.4%

Conical surface Flux(120deg): 641.39 lm

%lum = 99.9%

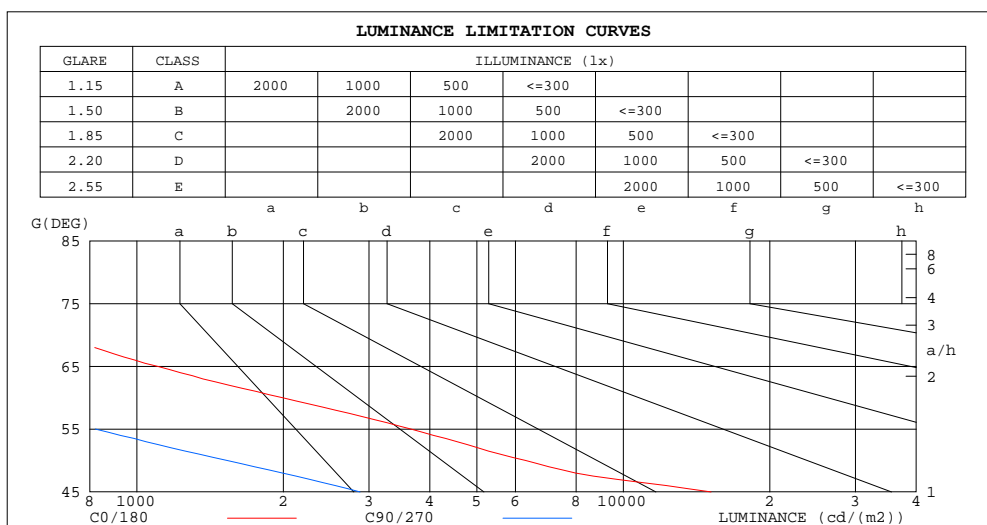
%lamp = 99.9%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-05-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:5.850m [K=1.0000]  
Remarks:

**LUMINANCE LIMITATION CURVES**

|   |                                      |  |
|---|--------------------------------------|--|
| Test:U:48.00V I:0.2434A P:11.68W PF:1.000 Freq:0Hz Lamp Flux:641.875x1 lm |                                      |  |
| NAME: ML26-RS40-12W-940-45  | TYPE:Low Voltage Track System Module |  |
| SPEC.:4000K   | DIM.: $\phi$ 40mm*H105mm             |  |
| MFR.: NEKO LIGHTING AG  |                                      |  |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G(DEG)            | C0/180 | C90/270 |
| 85                | 480    | 340     |
| 80                | 402    | 210     |
| 75                | 485    | 182     |
| 70                | 688    | 229     |
| 65                | 1102   | 309     |
| 60                | 1991   | 478     |
| 55                | 3660   | 821     |
| 50                | 6291   | 1531    |
| 45                | 15143  | 2875    |

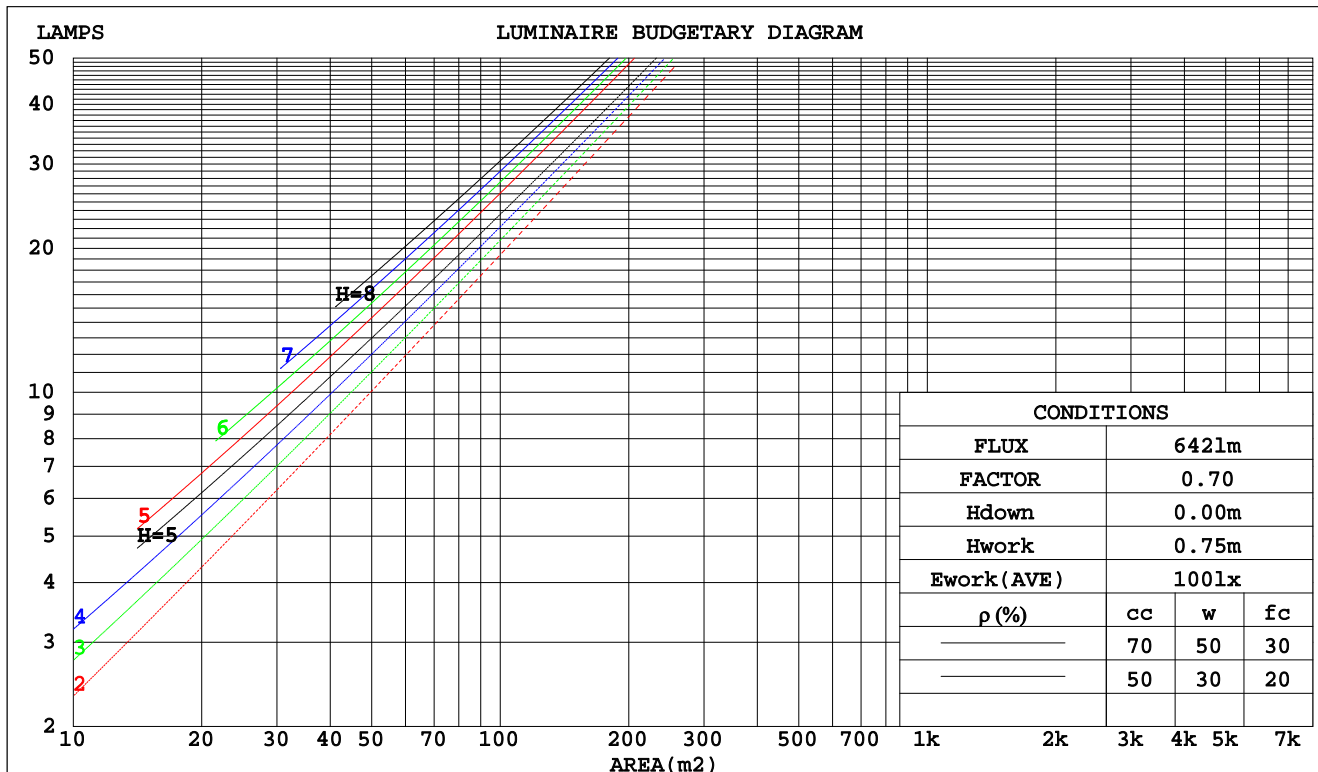
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Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:5.850m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

|   |   |  |
|---|---|--|
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| NAME: ML26-RS40-12W-940-45  | TYPE:Low Voltage Track System Module          |  |
| SPEC.:4000K   | DIM.: $\phi 40\text{mm} \times H105\text{mm}$ |  |
| MFR.: NEKO LIGHTING AG  |   |  |

| pcc  | 80%                             |      |      | 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  | Coefficients of Utilization(CU) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 0.0  | 1.19                            | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | .00 |
| 1.0  | 1.12                            | 1.10 | 1.08 | 1.10 | 1.08 | 1.06 | 1.06 | 1.04 | 1.03 | 1.02 | 1.01 | .00  | .99  | .98  | .97  | .95 |
| 2.0  | 1.05                            | 1.02 | .99  | 1.04 | 1.01 | .98  | 1.01 | .98  | .96  | .98  | .96  | .94  | .95  | .93  | .92  | .90 |
| 3.0  | .00                             | .95  | .92  | .98  | .94  | .91  | .96  | .93  | .90  | .93  | .91  | .89  | .91  | .89  | .87  | .86 |
| 4.0  | .95                             | .90  | .86  | .93  | .89  | .86  | .91  | .88  | .85  | .89  | .86  | .84  | .88  | .85  | .83  | .81 |
| 5.0  | .90                             | .85  | .81  | .89  | .84  | .81  | .87  | .83  | .80  | .86  | .82  | .79  | .84  | .81  | .79  | .78 |
| 6.0  | .85                             | .80  | .77  | .85  | .80  | .77  | .83  | .79  | .76  | .82  | .78  | .76  | .81  | .78  | .75  | .74 |
| 7.0  | .82                             | .76  | .73  | .81  | .76  | .73  | .80  | .75  | .72  | .79  | .75  | .72  | .78  | .74  | .72  | .70 |
| 8.0  | .78                             | .73  | .69  | .77  | .73  | .69  | .76  | .72  | .69  | .75  | .71  | .69  | .74  | .71  | .68  | .67 |
| 9.0  | .75                             | .69  | .66  | .74  | .69  | .66  | .73  | .69  | .66  | .72  | .68  | .66  | .72  | .68  | .65  | .64 |
| 10.0 | .71                             | .66  | .63  | .71  | .66  | .63  | .70  | .66  | .63  | .70  | .66  | .63  | .69  | .65  | .63  | .61 |



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 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:5.850m [K=1.0000]  
Remarks:

## WEC AND CCEC

|   |                                      |  |
|---|--------------------------------------|--|
| Test:U:48.00V I:0.2434A P:11.68W PF:1.000 Freq:0Hz Lamp Flux:641.875x1 lm |                                      |  |
| NAME: ML26-RS40-12W-940-45  | TYPE:Low Voltage Track System Module |  |
| SPEC.:4000K   | DIM.: $\phi$ 40mm*H105mm             |  |
| MFR.: NEKO LIGHTING AG  |                                      |  |

| $\rho_{cc}$ | 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         | .157                  | .089 | .028 | .150 | .085 | .027 | .137                            | .079 | .025 | .126 | .073 | .023 | .115 | .067 | .022 |   |  |
| 2.0         | .148                  | .081 | .025 | .142 | .078 | .024 | .132                            | .073 | .023 | .122 | .069 | .021 | .113 | .064 | .020 |   |  |
| 3.0         | .140                  | .074 | .022 | .135 | .072 | .022 | .126                            | .068 | .021 | .118 | .065 | .020 | .111 | .061 | .019 |   |  |
| 4.0         | .132                  | .069 | .020 | .128 | .067 | .020 | .121                            | .064 | .019 | .114 | .061 | .018 | .107 | .058 | .018 |   |  |
| 5.0         | .126                  | .064 | .019 | .123 | .063 | .018 | .116                            | .060 | .018 | .110 | .058 | .017 | .104 | .056 | .017 |   |  |
| 6.0         | .120                  | .060 | .017 | .117 | .059 | .017 | .112                            | .057 | .017 | .106 | .055 | .016 | .101 | .053 | .016 |   |  |
| 7.0         | .115                  | .057 | .016 | .112 | .056 | .016 | .107                            | .054 | .016 | .103 | .053 | .015 | .098 | .051 | .015 |   |  |
| 8.0         | .110                  | .054 | .015 | .108 | .053 | .015 | .103                            | .052 | .015 | .099 | .050 | .015 | .095 | .049 | .014 |   |  |
| 9.0         | .106                  | .051 | .014 | .104 | .051 | .014 | .100                            | .049 | .014 | .096 | .048 | .014 | .093 | .047 | .014 |   |  |
| 10.0        | .102                  | .049 | .014 | .100 | .048 | .013 | .096                            | .047 | .013 | .093 | .046 | .013 | .090 | .045 | .013 |   |  |

| $\rho_{cc}$ | 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         | .190                  | .190 | .190 | .163 | .163 | .163 | .111                                       | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 |   |
| 1.0         | .170                  | .157 | .146 | .145 | .135 | .126 | .099                                       | .093 | .087 | .057 | .054 | .051 | .018 | .017 | .016 |   |
| 2.0         | .153                  | .133 | .115 | .131 | .114 | .100 | .090                                       | .079 | .070 | .052 | .046 | .041 | .017 | .015 | .013 |   |
| 3.0         | .139                  | .113 | .093 | .119 | .098 | .080 | .082                                       | .068 | .056 | .047 | .040 | .033 | .015 | .013 | .011 |   |
| 4.0         | .128                  | .098 | .076 | .110 | .085 | .066 | .076                                       | .059 | .046 | .044 | .035 | .027 | .014 | .011 | .009 |   |
| 5.0         | .119                  | .086 | .063 | .102 | .075 | .055 | .070                                       | .052 | .039 | .041 | .031 | .023 | .013 | .010 | .008 |   |
| 6.0         | .111                  | .077 | .053 | .095 | .067 | .046 | .066                                       | .047 | .032 | .038 | .027 | .019 | .012 | .009 | .006 |   |
| 7.0         | .104                  | .069 | .045 | .089 | .060 | .039 | .062                                       | .042 | .028 | .036 | .025 | .016 | .012 | .008 | .005 |   |
| 8.0         | .098                  | .063 | .038 | .084 | .054 | .033 | .058                                       | .038 | .024 | .034 | .022 | .014 | .011 | .007 | .005 |   |
| 9.0         | .093                  | .057 | .033 | .080 | .050 | .029 | .055                                       | .035 | .021 | .032 | .021 | .012 | .010 | .007 | .004 |   |
| 10.0        | .088                  | .053 | .029 | .076 | .046 | .025 | .053                                       | .032 | .018 | .031 | .019 | .011 | .010 | .006 | .004 |   |

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C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-05-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:5.850m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

|   |                  |      |      |      |                                      |                |     |     |     |     |
|---|------------------|------|------|------|--------------------------------------|----------------|-----|-----|-----|-----|
| Test:U:48.00V I:0.2434A P:11.68W PF:1.000 Freq:0Hz Lamp Flux:641.875x1 lm |                  |      |      |      |                                      |                |     |     |     |     |
| NAME: ML26-RS40-12W-940-45  |                  |      |      |      | TYPE:Low Voltage Track System Module |                |     |     |     |     |
| SPEC.:4000K   |                  |      |      |      | DIM.: $\phi$ 40mm*H105mm             |                |     |     |     |     |
| MFR.: NEKO LIGHTING AG  |                  |      |      |      |                                      |                |     |     |     |     |
| 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   | 20.3             | 21.1 | 20.6 | 21.3 | 21.5                                 | 5.7            | 6.5 | 5.9 | 6.7 | 6.8 |
| 3H  | 20.2             | 20.9 | 20.4 | 21.1 | 21.3                                 | 5.6            | 6.3 | 5.8 | 6.5 | 6.7 |
| 4H  | 20.1             | 20.8 | 20.4 | 21.0 | 21.2                                 | 5.5            | 6.2 | 5.8 | 6.4 | 6.6 |
| 6H  | 20.0             | 20.7 | 20.3 | 20.9 | 21.2                                 | 5.4            | 6.1 | 5.7 | 6.3 | 6.6 |
| 8H  | 20.0             | 20.6 | 20.3 | 20.9 | 21.1                                 | 5.4            | 6.0 | 5.7 | 6.3 | 6.5 |
| 12H   | 19.9             | 20.5 | 20.2 | 20.8 | 21.1                                 | 5.3            | 5.9 | 5.7 | 6.2 | 6.5 |
| 4H 2H   | 20.1             | 20.8 | 20.4 | 21.0 | 21.2                                 | 5.5            | 6.2 | 5.8 | 6.4 | 6.7 |
| 3H  | 19.9             | 20.5 | 20.2 | 20.8 | 21.1                                 | 5.4            | 6.0 | 5.7 | 6.2 | 6.5 |
| 4H  | 19.8             | 20.4 | 20.2 | 20.7 | 21.0                                 | 5.3            | 5.8 | 5.6 | 6.1 | 6.4 |
| 6H  | 19.7             | 20.2 | 20.1 | 20.5 | 20.9                                 | 5.2            | 5.7 | 5.6 | 6.0 | 6.4 |
| 8H  | 19.7             | 20.1 | 20.1 | 20.5 | 20.8                                 | 5.2            | 5.6 | 5.5 | 6.0 | 6.3 |
| 12H   | 19.6             | 20.0 | 20.0 | 20.4 | 20.8                                 | 5.1            | 5.5 | 5.5 | 5.9 | 6.3 |
| 8H 4H   | 19.7             | 20.1 | 20.1 | 20.5 | 20.8                                 | 5.1            | 5.6 | 5.5 | 5.9 | 6.3 |
| 6H  | 19.6             | 19.9 | 20.0 | 20.3 | 20.7                                 | 5.1            | 5.4 | 5.5 | 5.8 | 6.2 |
| 8H  | 19.5             | 19.8 | 20.0 | 20.3 | 20.7                                 | 5.0            | 5.3 | 5.4 | 5.7 | 6.2 |
| 12H   | 19.5             | 19.7 | 19.9 | 20.2 | 20.6                                 | 5.0            | 5.2 | 5.4 | 5.7 | 6.1 |
| 12H 4H  | 19.6             | 20.0 | 20.0 | 20.4 | 20.8                                 | 5.1            | 5.5 | 5.5 | 5.9 | 6.3 |
| 6H  | 19.5             | 19.8 | 20.0 | 20.3 | 20.7                                 | 5.0            | 5.3 | 5.4 | 5.7 | 6.2 |
| 8H  | 19.5             | 19.7 | 19.9 | 20.2 | 20.6                                 | 4.9            | 5.2 | 5.4 | 5.7 | 6.1 |
| Variations with the observer position at spacings:                        |                  |      |      |      |                                      |                |     |     |     |     |
| S = 1.0H  | + 6.5 / -17.5    |      |      |      |                                      | + 2.4 / - 7.7  |     |     |     |     |
| 1.5H  | + 9.2 / -16.7    |      |      |      |                                      | + 3.8 / - 5.7  |     |     |     |     |
| 2.0H  | + 8.6 / - 9.8    |      |      |      |                                      | + 4.8 / - 5.6  |     |     |     |     |

CIE Pub.117, 641.9 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -1.5$ )

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-05-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:5.850m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|   |  |  |
|---|--|--|
| Test:U:48.00V I:0.2434A P:11.68W PF:1.000 Freq:0Hz Lamp Flux:641.875x1 lm |  |  |
| NAME: ML26-RS40-12W-940-45  | TYPE:Low Voltage Track System Module                 |  |
| SPEC.:4000K   | DIM.: $\varnothing 40\text{mm} \times H105\text{mm}$ |  |
| MFR.: NEKO LIGHTING AG  |  |  |

| 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) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 91  | 85  | 82        | 90  | 85  | 81  | 90  | 84            | 81  | 78     |
| 0.80                             | 98  | 92  | 89        | 97  | 92  | 89  | 96  | 92            | 89  | 85     |
| 1.00                             | 102   | 97  | 93        | 101 | 96  | 93  | 99  | 96            | 92  | 89     |
| 1.25                             | 105   | 100 | 97        | 104 | 100 | 97  | 102 | 99            | 96  | 92     |
| 1.50                             | 108   | 103 | 100       | 106 | 103 | 100 | 104 | 101           | 99  | 95     |
| 2.00                             | 110   | 106 | 103       | 108 | 105 | 102 | 106 | 103           | 101 | 96     |
| 2.50                             | 111   | 108 | 105       | 110 | 107 | 104 | 107 | 104           | 102 | 97     |
| 3.00                             | 113   | 110 | 107       | 111 | 108 | 106 | 108 | 105           | 104 | 98     |
| 4.00                             | 114   | 112 | 110       | 112 | 110 | 109 | 109 | 107           | 106 | 99     |
| 5.00                             | 116   | 114 | 112       | 114 | 112 | 110 | 110 | 108           | 107 | 100    |
| ROOM INDEX                       | UF(total)   |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |   |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

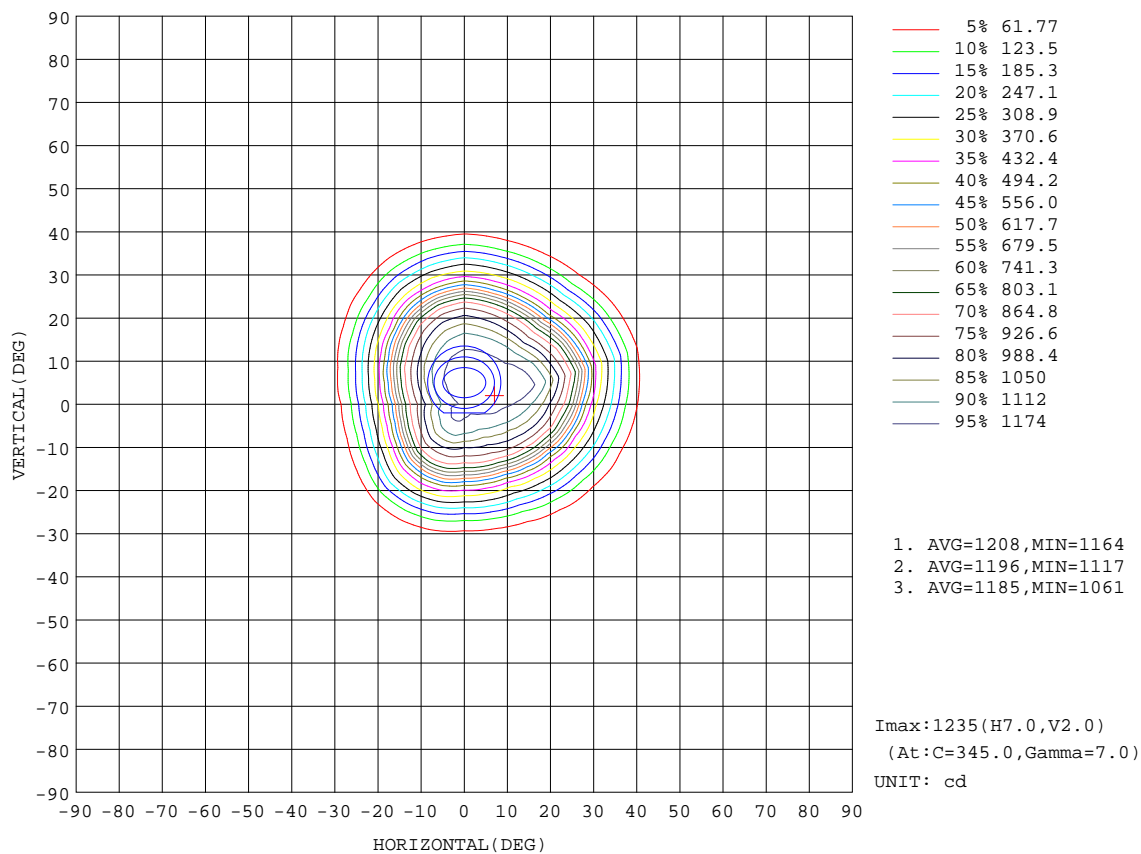
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Jason  
 Test Date:2020-05-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:58%  
 Test Distance:5.850m [K=1.0000]  
 Remarks:



ISOCANDELA DIAGRAM

|   |                                      |  |
|---|--------------------------------------|--|
| Test:U:48.00V I:0.2434A P:11.68W PF:1.000 Freq:0Hz Lamp Flux:641.875x1 lm |                                      |  |
| NAME: ML26-RS40-12W-940-45  | TYPE:Low Voltage Track System Module |  |
| SPEC.:4000K   | DIM.: $\phi$ 40mm*H105mm             |  |
| MFR.: NEKO LIGHTING AG  |                                      |  |



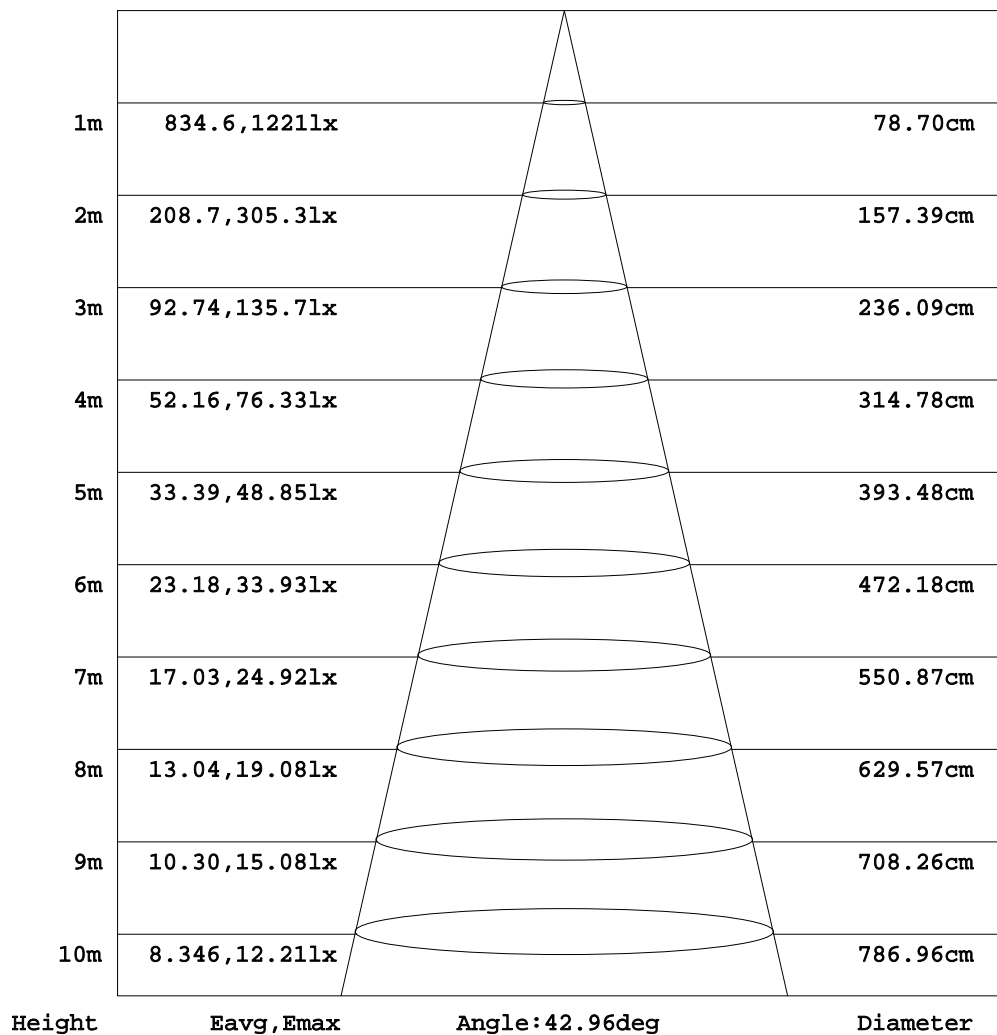
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-05-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:5.850m [K=1.0000]  
Remarks:

**AAI Figure**

|   |  |  |
|---|--|--|
| Test:U:48.00V I:0.2434A P:11.68W PF:1.000 Freq:0Hz Lamp Flux:641.875x1 lm |  |  |
| NAME: ML26-RS40-12W-940-45  | TYPE:Low Voltage Track System Module                 |  |
| SPEC.:4000K   | DIM.: $\phi 40\text{mm} \times \text{H}105\text{mm}$ |  |
| MFR.: NEKO LIGHTING AG  |  |  |

Flux out:406.9 lm



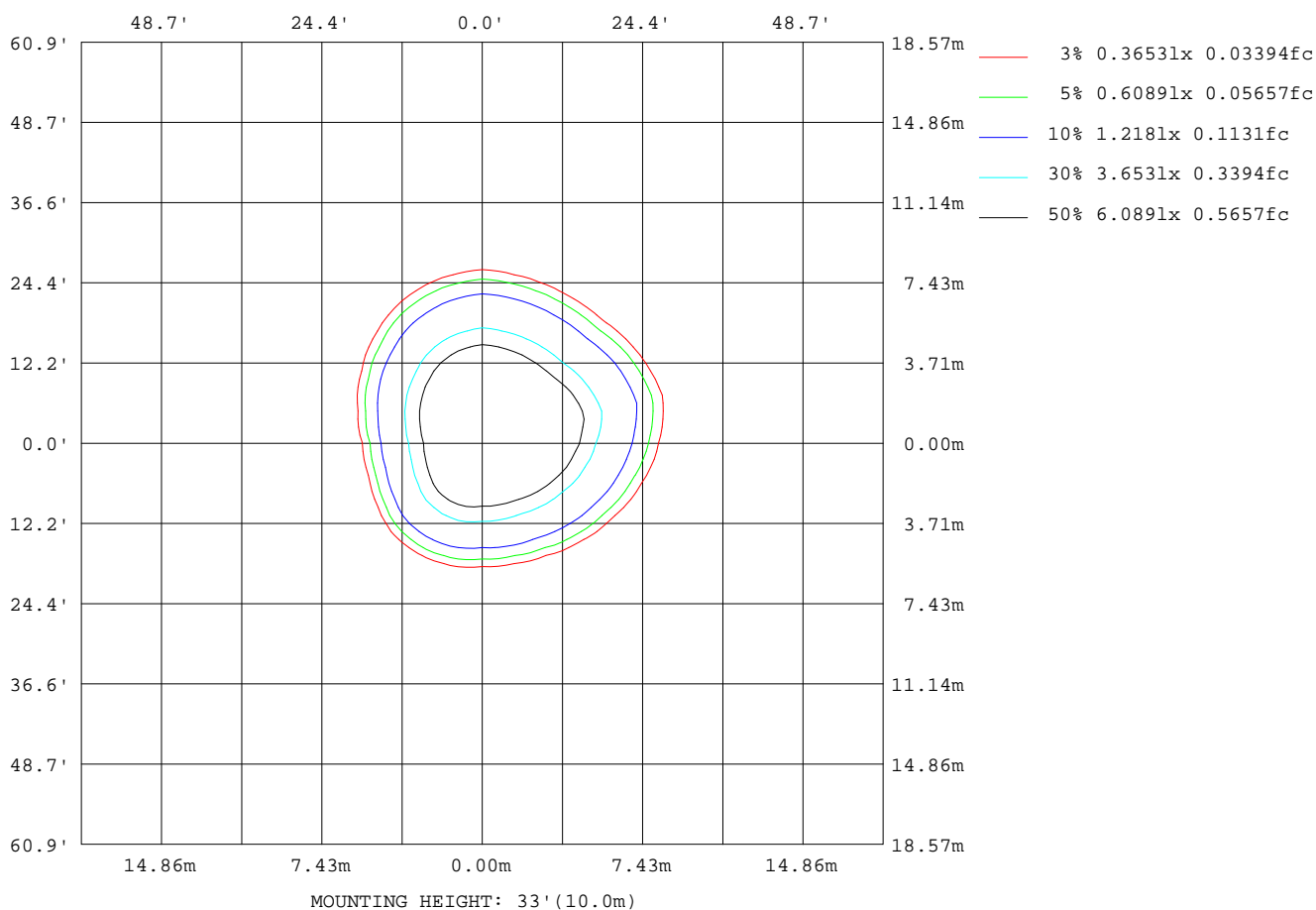
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-05-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:5.850m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM

|   |                                      |  |
|---|--------------------------------------|--|
| Test:U:48.00V I:0.2434A P:11.68W PF:1.000 Freq:0Hz Lamp Flux:641.875x1 lm |                                      |  |
| NAME: ML26-RS40-12W-940-45  | TYPE:Low Voltage Track System Module |  |
| SPEC.:4000K   | DIM.: $\phi$ 40mm*H105mm             |  |
| MFR.: NEKO LIGHTING AG  |                                      |  |



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-05-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:5.850m [K=1.0000]  
Remarks:

### LED Avg.L Report

|   |                                      |  |
|---|--------------------------------------|--|
| Test:U:48.00V I:0.2434A P:11.68W PF:1.000 Freq:0Hz Lamp Flux:641.875x1 lm |                                      |  |
| NAME: ML26-RS40-12W-940-45  | TYPE:Low Voltage Track System Module |  |
| SPEC.:4000K   | DIM.: $\phi$ 40mm*H105mm             |  |
| MFR.: NEKO LIGHTING AG  |                                      |  |

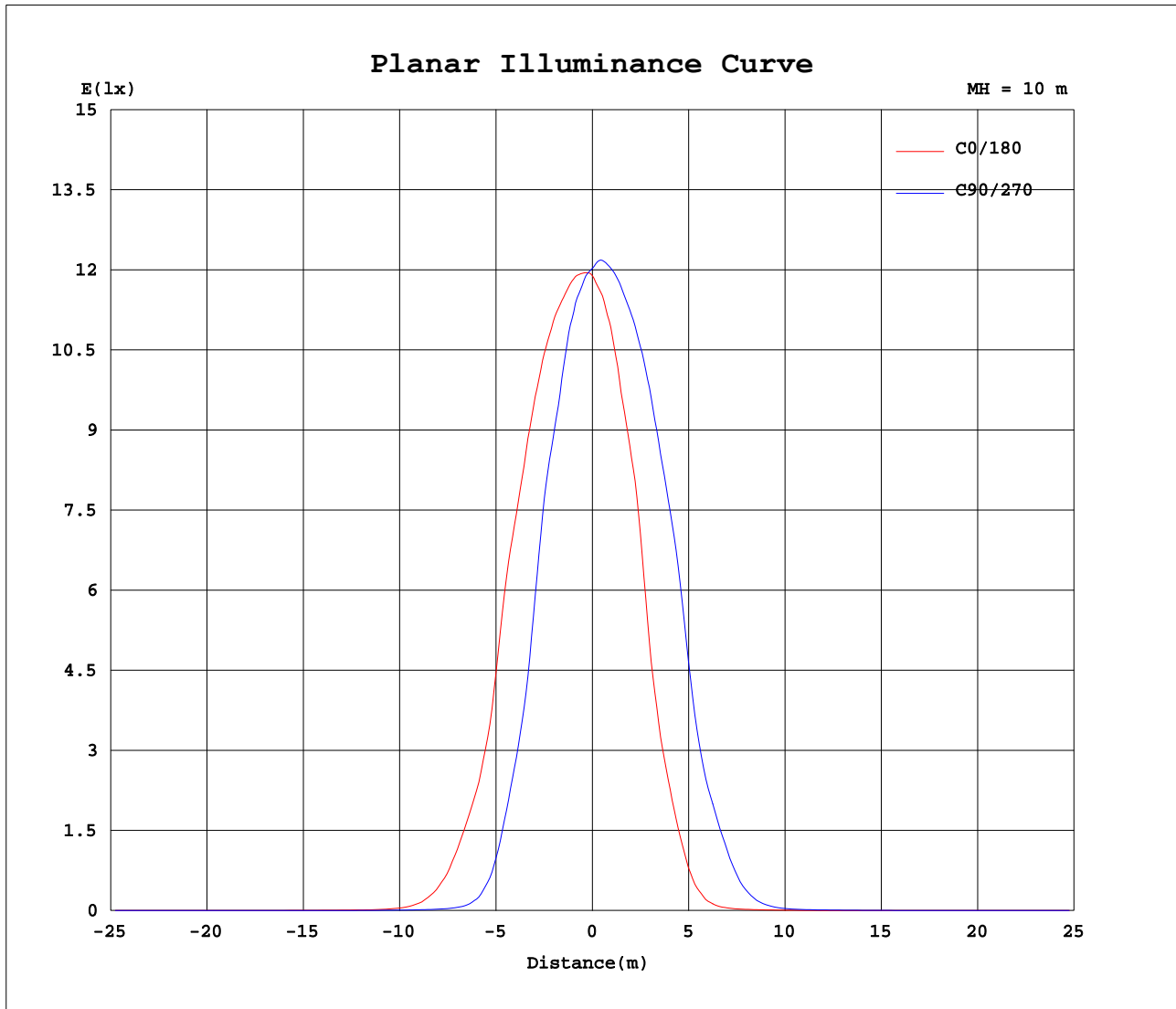
| AvgL             | cd/m2 |
|------------------|-------|
| L_0~180 (65) av  | 666   |
| L_0~180 (75) av  | 299   |
| L_0~180 (85) av  | 333   |
| L_90~270 (65) av | 629   |
| L_90~270 (75) av | 275   |
| L_90~270 (85) av | 319   |
| L_45 (65) av     | 546   |
| L_45 (75) av     | 249   |
| L_45 (85) av     | 334   |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2020-05-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:5.850m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2020-05-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 5.850m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:5.850m [K=1.0000]
Remarks:

```