

LED Downlight Sense Series S45S1-4W-927-24



| | | |
|---------------------|--------|--------------------------|
| Light Output Ratio: | 100.0% | |
| Luminaire Power: | 4.2 W | |
| SHR Nominal: | 0.00 | Calculated using the TM5 |
| SHR Maximum: | 1.00 | fine grid method. |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2021-03-16

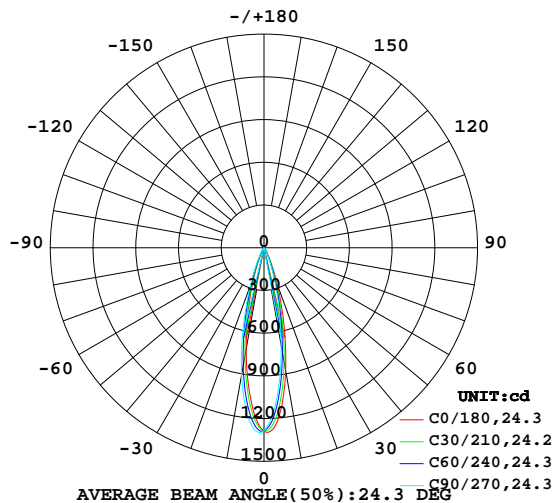
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

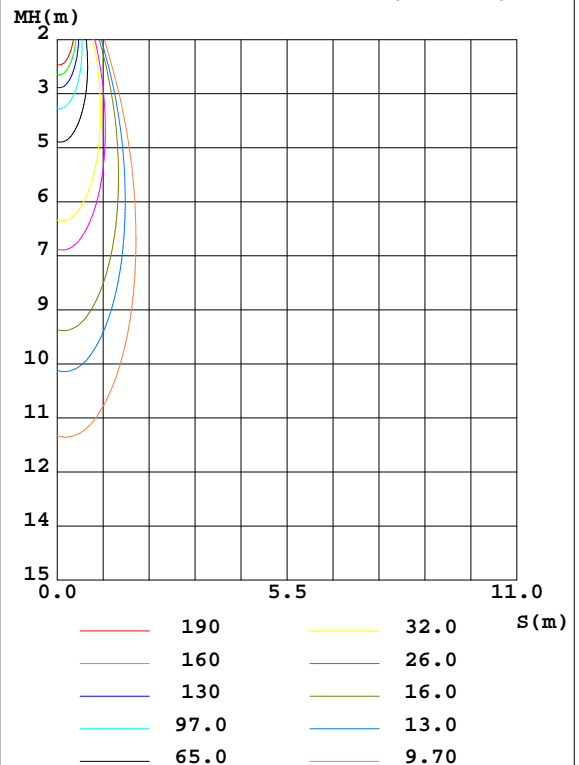
| | | |
|---|-------------------------|-------------|
| Test:U:12.00V I:0.3500A P:4.200W PF:1.000 Freq:0Hz Lamp Flux:292.708x1 lm | | |
| NAME: S45S1-4W-927-24 | TYPE:Downlight | SERIAL No.: |
| SPEC.:2700K | DIM.: L55mm*W55mm*H60mm | |
| MFR.: NEKO LIGHTING AG | | |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 69.69 lm/W | | | |
|------------------|------------|----------------------------------|--------|-------------------|----------|
| MODEL | CREE-2700K | I _{max} (cd) | 1308 | S/MH(C0/180) | 0.38 |
| NOMINAL POWER(W) | 6 | LOR(%) | 100.0 | S/MH(C90/270) | 0.46 |
| RATED VOLTAGE(V) | 220 | TOTAL FLUX(lm) | 292.71 | η UP,DN(C0-180) | 0.0,46.7 |
| NOMINAL FLUX(lm) | 292.708 | CIE CLASS | DIRECT | η UP,DN(C180-360) | 0.0,53.3 |
| LAMPS INSIDE | 1 | η up(%) | 0.0 | CIBSE SHR NOM | 0.00 |
| TEST VOLTAGE(V) | 220 | η down(%) | 100.0 | CIBSE SHR MAX | 1.00 |

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:2021-03-16

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | %lum, lamp |
|----------|-----------------------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|--------------|------------|
| 10 | 877.1 | 790.6 | 697.8 | 683.8 | 722.4 | 792.6 | 906.5 | 929.1 | 0- 10 | 97.14 | 97.14 | 33.2,33.2 |
| 20 | 272.0 | 219.9 | 179.6 | 169.7 | 181.5 | 212.0 | 274.3 | 295.6 | 10- 20 | 128.0 | 225.1 | 76.9,76.9 |
| 30 | 53.56 | 43.46 | 37.41 | 30.14 | 29.14 | 31.72 | 45.62 | 50.35 | 20- 30 | 47.08 | 272.2 | 93,93 |
| 40 | 15.85 | 16.69 | 12.37 | 11.19 | 7.814 | 7.607 | 10.27 | 15.32 | 30- 40 | 14.02 | 286.2 | 97.8,97.8 |
| 50 | 2.900 | 6.797 | 2.476 | 3.629 | 1.612 | 2.166 | 1.863 | 4.757 | 40- 50 | 5.200 | 291.4 | 99.6,99.6 |
| 60 | 0.3258 | 0.5622 | 0.2147 | 0.3067 | 0.1567 | 0.1832 | 0.0783 | 0.1673 | 50- 60 | 1.164 | 292.6 | 99.9,99.9 |
| 70 | 0.0891 | 0.0105 | 0.0626 | 0.0157 | 0.0314 | 0.0576 | 0.0052 | 0.0523 | 60- 70 | 0.1081 | 292.7 | 100,100 |
| 80 | 0.0366 | 0.0105 | 0.0210 | 0.0105 | 0.0105 | 0.0157 | 0.0052 | 0.0210 | 70- 80 | 0.0267 | 292.7 | 100,100 |
| 90 | 0.0157 | 0.0105 | 0.0105 | 0.0105 | 0.0105 | 0.0105 | 0.0052 | 0.0105 | 80- 90 | 0.0137 | 292.7 | 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): 289.57 lm

%lum = 98.9%

%lamp = 98.9%

Conical surface Flux(120deg): 292.56 lm

%lum = 99.9%

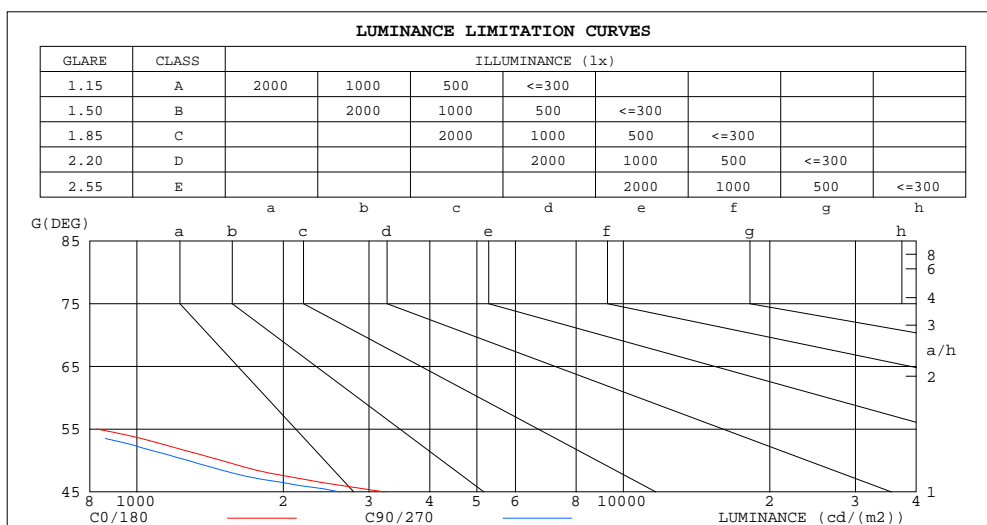
%lamp = 99.9%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-03-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

| | | |
|---|-------------------------|-------------|
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| MFR.: NEKO LIGHTING AG | | |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 79 | 59 |
| 80 | 70 | 40 |
| 75 | 53 | 47 |
| 70 | 86 | 61 |
| 65 | 131 | 74 |
| 60 | 215 | 142 |
| 55 | 827 | 662 |
| 50 | 1492 | 1273 |
| 45 | 3228 | 2612 |

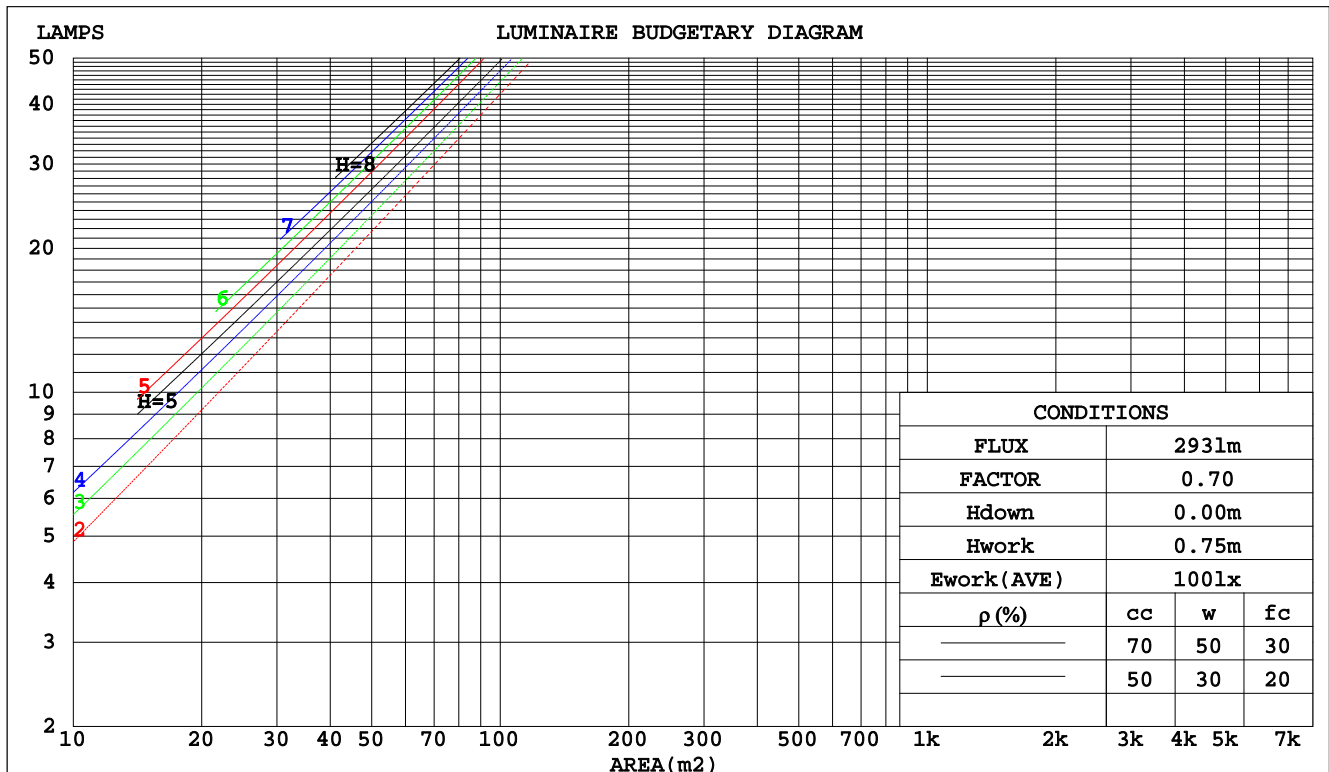
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
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| 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 | RCR:Room Cavity Ratio | | | | | | | | | | | | | | | |



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WEC AND CCEC

| | | |
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|------|-----------------------|------|------|------|------|------|---------------------------------|------|------|------|------|------|------|------|------|---|
| 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 | .140 | .079 | .025 | .133 | .076 | .024 | .121 | .069 | .022 | .109 | .063 | .020 | .099 | .057 | .018 | |
| 2.0 | .130 | .071 | .022 | .125 | .069 | .021 | .114 | .064 | .020 | .105 | .059 | .018 | .096 | .054 | .017 | |
| 3.0 | .122 | .065 | .019 | .117 | .063 | .019 | .109 | .059 | .018 | .101 | .055 | .017 | .093 | .052 | .016 | |
| 4.0 | .114 | .059 | .017 | .110 | .058 | .017 | .103 | .055 | .016 | .096 | .052 | .016 | .090 | .049 | .015 | |
| 5.0 | .108 | .055 | .016 | .105 | .054 | .016 | .098 | .051 | .015 | .093 | .049 | .015 | .087 | .047 | .014 | |
| 6.0 | .102 | .051 | .015 | .099 | .050 | .014 | .094 | .048 | .014 | .089 | .046 | .014 | .084 | .044 | .013 | |
| 7.0 | .097 | .048 | .014 | .095 | .047 | .013 | .090 | .046 | .013 | .086 | .044 | .013 | .082 | .042 | .012 | |
| 8.0 | .093 | .045 | .013 | .091 | .045 | .013 | .086 | .043 | .012 | .083 | .042 | .012 | .079 | .041 | .012 | |
| 9.0 | .089 | .043 | .012 | .087 | .042 | .012 | .083 | .041 | .012 | .080 | .040 | .011 | .077 | .039 | .011 | |
| 10.0 | .085 | .041 | .011 | .083 | .040 | .011 | .080 | .039 | .011 | .077 | .038 | .011 | .074 | .037 | .011 | |

| 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 | 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 | .169 | .158 | .148 | .144 | .135 | .127 | .099 | .093 | .088 | .057 | .054 | .051 | .018 | .017 | .017 | |
| 2.0 | .151 | .133 | .118 | .129 | .114 | .102 | .088 | .079 | .071 | .051 | .046 | .042 | .016 | .015 | .014 | |
| 3.0 | .136 | .113 | .095 | .117 | .098 | .083 | .080 | .068 | .058 | .046 | .040 | .034 | .015 | .013 | .011 | |
| 4.0 | .124 | .098 | .078 | .106 | .085 | .068 | .073 | .059 | .048 | .042 | .035 | .028 | .014 | .011 | .009 | |
| 5.0 | .113 | .086 | .065 | .097 | .074 | .057 | .067 | .052 | .040 | .039 | .030 | .024 | .013 | .010 | .008 | |
| 6.0 | .105 | .076 | .055 | .090 | .066 | .048 | .062 | .046 | .034 | .036 | .027 | .020 | .012 | .009 | .007 | |
| 7.0 | .097 | .068 | .047 | .083 | .059 | .041 | .058 | .041 | .029 | .034 | .024 | .017 | .011 | .008 | .006 | |
| 8.0 | .091 | .061 | .041 | .078 | .053 | .035 | .054 | .037 | .025 | .031 | .022 | .015 | .010 | .007 | .005 | |
| 9.0 | .085 | .055 | .035 | .073 | .048 | .031 | .051 | .034 | .022 | .030 | .020 | .013 | .010 | .007 | .004 | |
| 10.0 | .080 | .051 | .031 | .069 | .044 | .027 | .048 | .031 | .019 | .028 | .018 | .011 | .009 | .006 | .004 | |

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-03-16

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | |
|---|------------------|------|------|------|-------------------------|----------------|------|-------------|------|------|
| Test:U:12.00V I:0.3500A P:4.200W PF:1.000 Freq:0Hz Lamp Flux:292.708x1 lm | | | | | | | | | | |
| NAME: S45S1-4W-927-24 | | | | | TYPE:Downlight | | | SERIAL No.: | | |
| SPEC.:2700K | | | | | DIM.: L55mm*W55mm*H60mm | | | | | |
| 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 | 13.2 | 13.9 | 13.4 | 14.0 | 14.2 | 11.9 | 12.5 | 12.1 | 12.7 | 12.8 |
| 3H | 13.0 | 13.7 | 13.3 | 13.8 | 14.0 | 11.7 | 12.3 | 12.0 | 12.5 | 12.7 |
| 4H | 13.0 | 13.5 | 13.2 | 13.8 | 14.0 | 11.6 | 12.2 | 11.9 | 12.4 | 12.7 |
| 6H | 12.9 | 13.4 | 13.1 | 13.7 | 13.9 | 11.6 | 12.1 | 11.8 | 12.4 | 12.6 |
| 8H | 12.8 | 13.4 | 13.1 | 13.6 | 13.9 | 11.5 | 12.1 | 11.8 | 12.3 | 12.6 |
| 12H | 12.8 | 13.3 | 13.1 | 13.6 | 13.8 | 11.5 | 12.0 | 11.8 | 12.3 | 12.5 |
| 4H 2H | 13.0 | 13.6 | 13.2 | 13.8 | 14.0 | 11.7 | 12.3 | 11.9 | 12.5 | 12.7 |
| 3H | 12.8 | 13.3 | 13.1 | 13.6 | 13.8 | 11.5 | 12.0 | 11.8 | 12.3 | 12.6 |
| 4H | 12.7 | 13.2 | 13.0 | 13.5 | 13.8 | 11.4 | 11.9 | 11.7 | 12.2 | 12.5 |
| 6H | 12.6 | 13.0 | 13.0 | 13.3 | 13.7 | 11.3 | 11.7 | 11.7 | 12.1 | 12.4 |
| 8H | 12.5 | 12.9 | 12.9 | 13.3 | 13.6 | 11.3 | 11.7 | 11.6 | 12.0 | 12.4 |
| 12H | 12.5 | 12.9 | 12.9 | 13.2 | 13.6 | 11.2 | 11.6 | 11.6 | 11.9 | 12.3 |
| 8H 4H | 12.5 | 12.9 | 12.9 | 13.3 | 13.6 | 11.3 | 11.7 | 11.6 | 12.0 | 12.4 |
| 6H | 12.4 | 12.8 | 12.9 | 13.1 | 13.6 | 11.1 | 11.5 | 11.6 | 11.9 | 12.3 |
| 8H | 12.4 | 12.7 | 12.8 | 13.1 | 13.5 | 11.1 | 11.4 | 11.5 | 11.8 | 12.2 |
| 12H | 12.3 | 12.6 | 12.8 | 13.0 | 13.5 | 11.0 | 11.3 | 11.5 | 11.7 | 12.2 |
| 12H 4H | 12.5 | 12.9 | 12.9 | 13.2 | 13.6 | 11.2 | 11.6 | 11.6 | 11.9 | 12.3 |
| 6H | 12.4 | 12.7 | 12.8 | 13.1 | 13.5 | 11.1 | 11.4 | 11.5 | 11.8 | 12.2 |
| 8H | 12.3 | 12.6 | 12.8 | 13.0 | 13.5 | 11.0 | 11.3 | 11.5 | 11.7 | 12.2 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 2.5 / -11.5 | | | | | + 2.6 / -14.6 | | | | |
| 1.5H | + 4.1 / - 6.9 | | | | | + 3.4 / - 7.4 | | | | |
| 2.0H | + 5.3 / -12.9 | | | | | + 5.4 / -15.1 | | | | |

CIE Pub.117, 292.7 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -4.3$)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-03-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|-------------------------|-------------|
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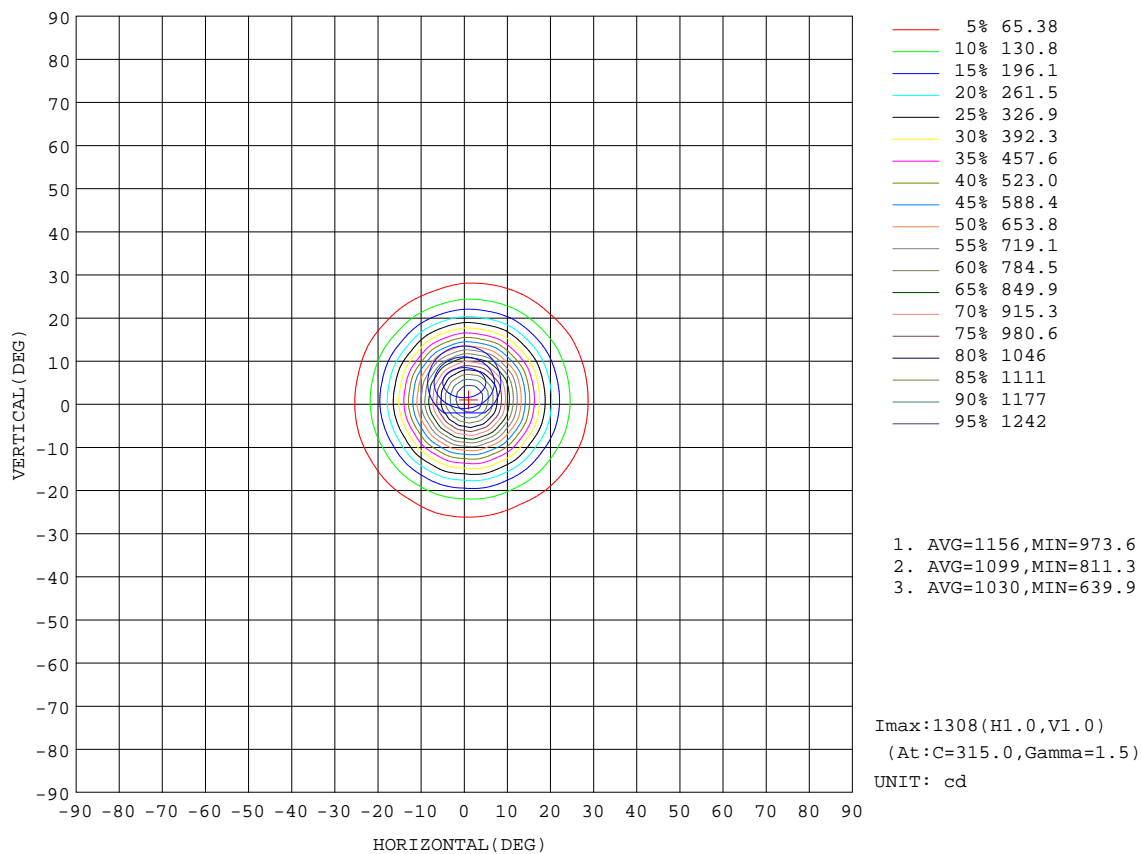
| REFLECTANCE | | | | | | | | | | |
|----------------------------------|---|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| Walls | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| Working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| ROOM INDEX | UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 90 | 84 | 81 | 90 | 84 | 81 | 89 | 84 | 81 | 77 |
| 0.80 | 97 | 92 | 89 | 97 | 92 | 88 | 95 | 91 | 88 | 85 |
| 1.00 | 101 | 96 | 93 | 100 | 96 | 92 | 99 | 95 | 92 | 88 |
| 1.25 | 105 | 100 | 97 | 104 | 100 | 97 | 102 | 98 | 96 | 92 |
| 1.50 | 107 | 103 | 100 | 106 | 102 | 99 | 104 | 101 | 98 | 94 |
| 2.00 | 110 | 106 | 103 | 108 | 105 | 102 | 106 | 103 | 101 | 96 |
| 2.50 | 111 | 108 | 105 | 110 | 106 | 104 | 107 | 104 | 102 | 96 |
| 3.00 | 112 | 109 | 107 | 111 | 108 | 106 | 107 | 105 | 104 | 97 |
| 4.00 | 114 | 112 | 110 | 112 | 110 | 108 | 109 | 107 | 106 | 99 |
| 5.00 | 116 | 114 | 112 | 113 | 112 | 110 | 110 | 108 | 107 | 100 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

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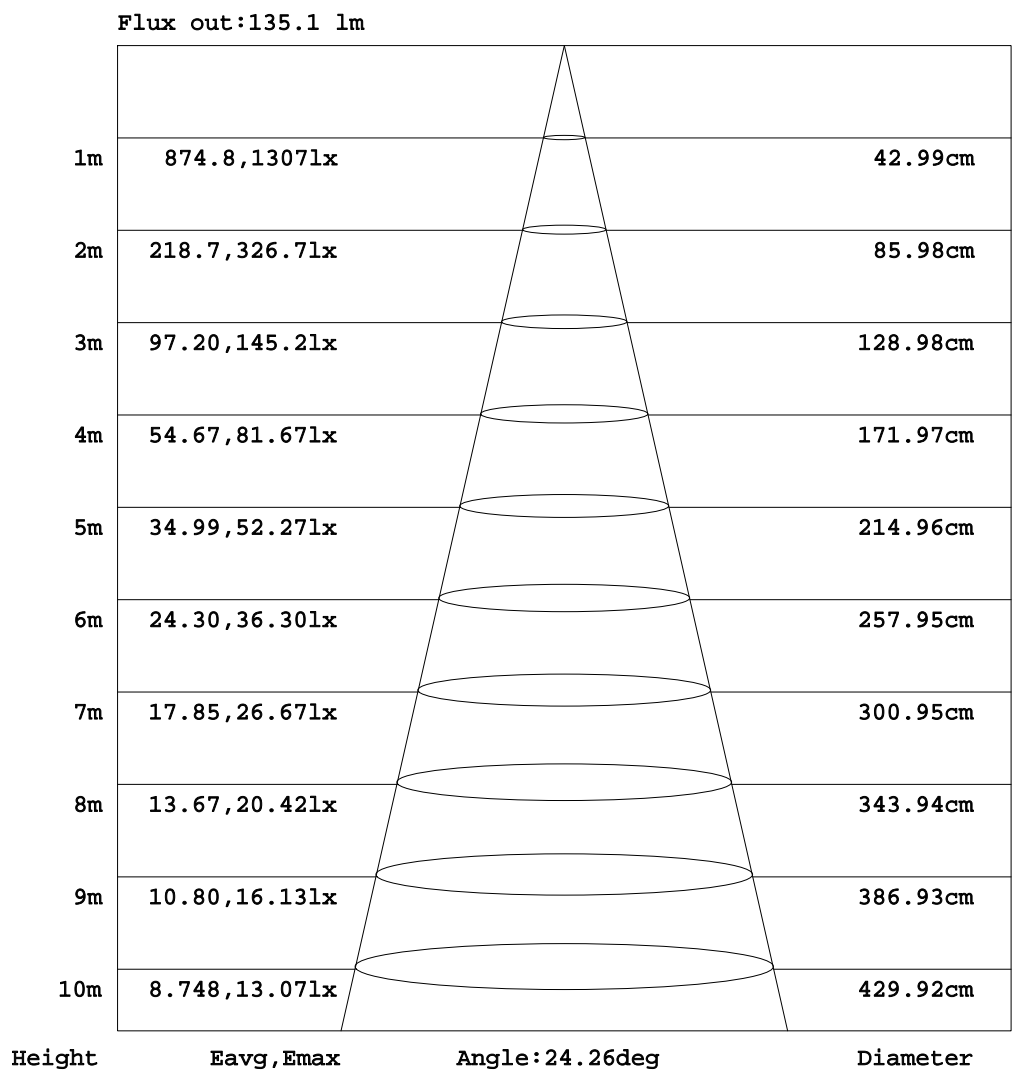


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AAI Figure

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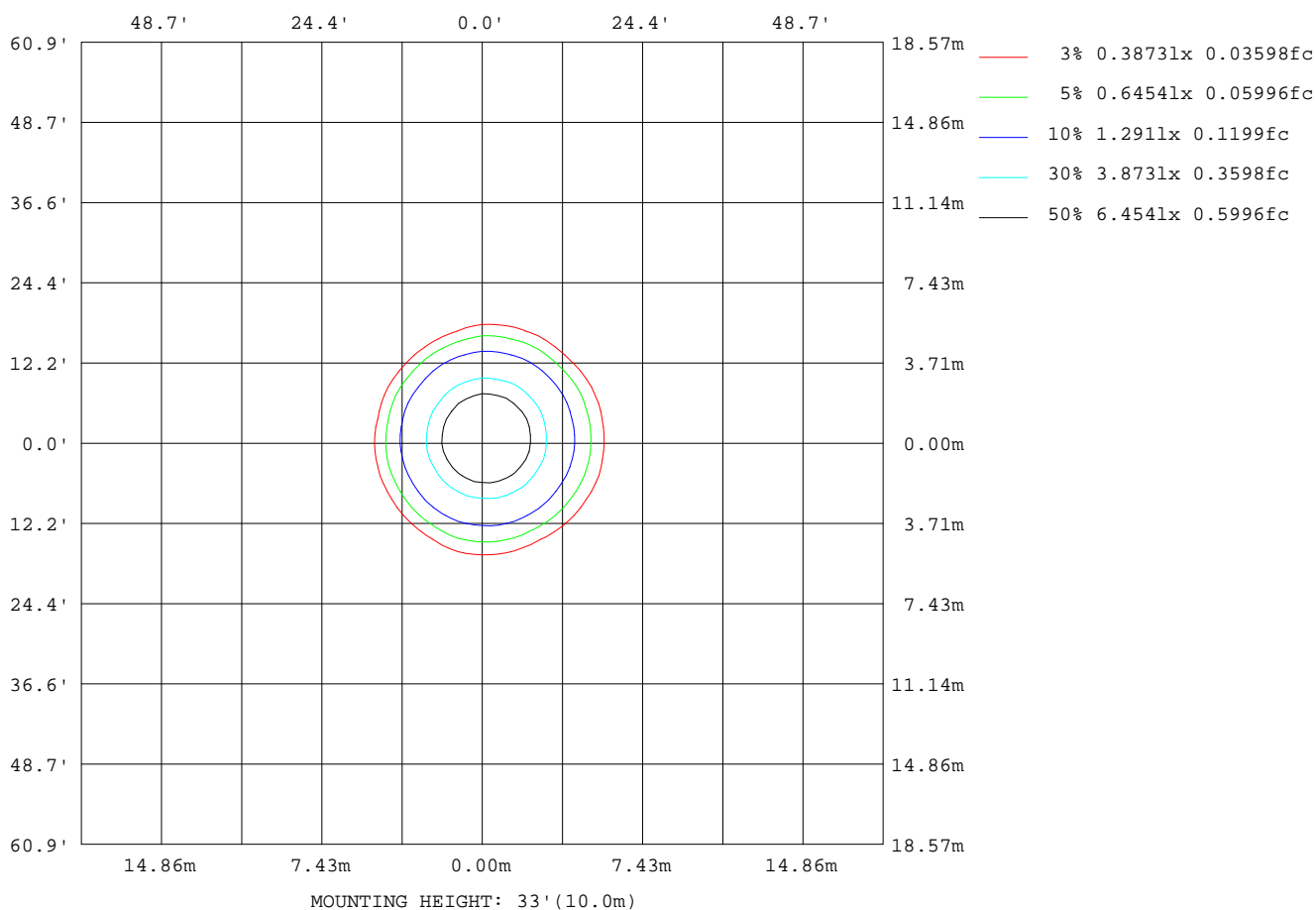
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Temperature:25.3DEG
Operators:Jason
Test Date:2021-03-16

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

LED Avg.L Report

| | | |
|---|-------------------------|-------------|
| Test:U:12.00V I:0.3500A P:4.200W PF:1.000 Freq:0Hz Lamp Flux:292.708x1 lm | | |
| NAME: S45S1-4W-927-24 | TYPE:Downlight | SERIAL No.: |
| SPEC.:2700K | DIM.: L55mm*W55mm*H60mm | |
| MFR.: NEKO LIGHTING AG | | |

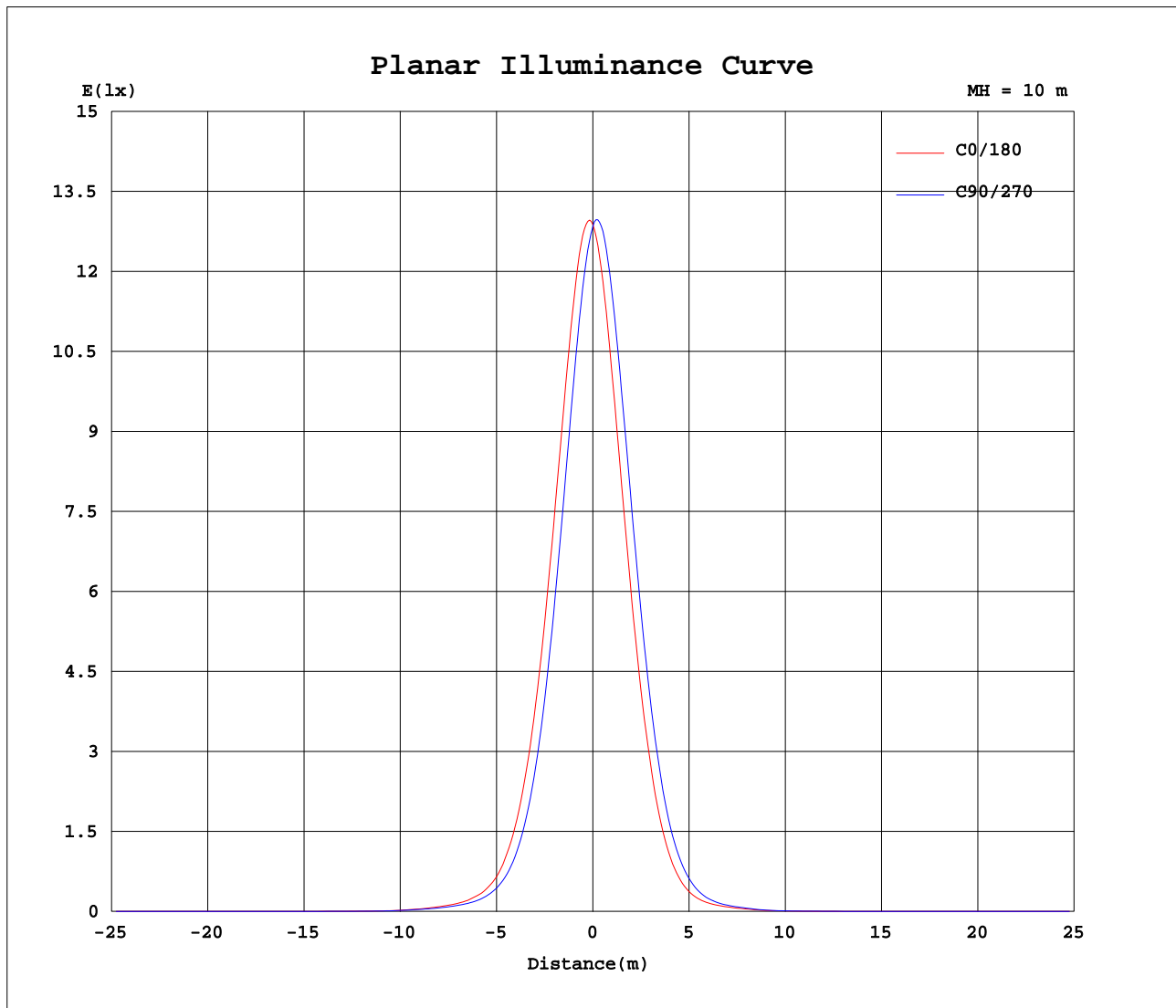
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 94 |
| L_0~180(75)av | 33 |
| L_0~180(85)av | 59 |
| L_90~270(65)av | 45 |
| L_90~270(75)av | 27 |
| L_90~270(85)av | 40 |
| L_45(65)av | 76 |
| L_45(75)av | 27 |
| L_45(85)av | 40 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2021-03-16

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [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: 2021-03-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 58%
Test Distance: 8.967m [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:8.967m [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:8.967m [K=1.0000]
Remarks:

```