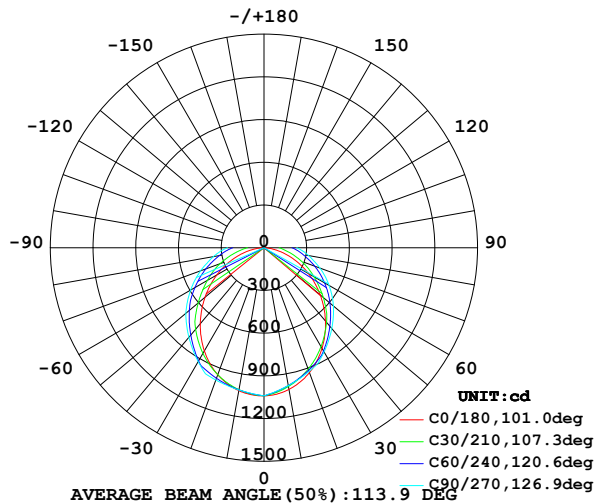


LUMINAIRE PHOTOMETRIC TEST REPORT

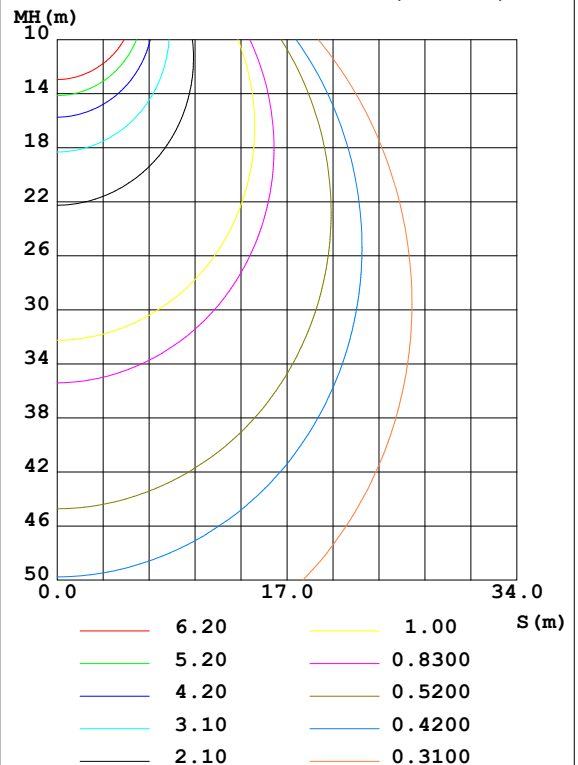
| | | |
|---|-------------------|-------------------|
| Test:U:120.4V I:0.1810A P:21.70W PF:0.9957 Lamp Flux:3189.94x1 lm | | |
| NAME: LOC-4FTSL-MW(22/28/36/44)MCCT(35/40/50)DF | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:1182*66*14mm | PROTECTION ANGLE: |

| DATA OF LAMP | | PHOTOMETRIC DATA Eff: 147.01 lm/W | | | |
|-------------------|---------|--|--------|---|-----------|
| MODEL | 5000K | I _{max} (cd) | 1040 | S/MH (C0/180) | 1.20 |
| NOMINAL POWER (W) | 22 | LOR (%) | 100.0 | S/MH (C90/270) | 1.31 |
| RATED VOLTAGE (V) | 120-277 | TOTAL FLUX (lm) | 3189.9 | <input checked="" type="checkbox"/> UP, DN (C0-180) | 0.0, 48.0 |
| NOMINAL FLUX (lm) | 3189.94 | CIE CLASS | DIRECT | <input checked="" type="checkbox"/> UP, DN (C180-360) | 0.0, 52.0 |
| LAMPS INSIDE | 1 | <input checked="" type="checkbox"/> up (%) | 0.0 | CIBSE SHR NOM | 1.25 |
| TEST VOLTAGE (V) | 120 | <input checked="" type="checkbox"/> down (%) | 100.0 | CIBSE SHR MAX | 1.35 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2020-06-16

☒ Range: 0 - 90DEG
☒ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity: 65.0%
 Test Distance: 8.900m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | Φ zone | Φ total | Φ lum, lamp |
|----------|-----------------------|-------|-------|-------|-------|-------|-------|-------|----------|-------------|--------------|------------------|
| 5 | 1032 | 1016 | 1011 | 1018 | 1036 | 1029 | 1027 | 1027 | 0- 5 | 24.62 | 24.62 | 0.77,0.77 |
| 10 | 1010 | 984.9 | 982.7 | 990.0 | 1019 | 1012 | 1014 | 1007 | 5- 10 | 72.39 | 97.01 | 3.04,3.04 |
| 15 | 976.9 | 949.3 | 953.9 | 956.1 | 990.2 | 989.6 | 1001 | 980.9 | 10- 15 | 117.1 | 214.1 | 6.71,6.71 |
| 20 | 933.5 | 909.4 | 925.2 | 917.7 | 949.4 | 962.1 | 988.6 | 949.8 | 15- 20 | 157.6 | 371.6 | 11.6,11.6 |
| 25 | 878.4 | 866.6 | 896.4 | 874.7 | 898.0 | 929.3 | 975.7 | 915.3 | 20- 25 | 193.0 | 564.6 | 17.7,17.7 |
| 30 | 815.3 | 820.8 | 844.5 | 829.2 | 838.2 | 893.1 | 924.0 | 877.6 | 25- 30 | 221.9 | 786.6 | 24.7,24.7 |
| 35 | 746.0 | 767.6 | 792.6 | 775.5 | 769.1 | 845.1 | 872.2 | 827.0 | 30- 35 | 242.2 | 1029 | 32.3,32.3 |
| 40 | 672.0 | 702.0 | 740.7 | 709.4 | 696.6 | 777.3 | 820.5 | 757.5 | 35- 40 | 254.4 | 1283 | 40.2,40.2 |
| 45 | 594.3 | 636.8 | 688.8 | 643.5 | 619.5 | 709.7 | 768.8 | 689.1 | 40- 45 | 259.0 | 1542 | 48.3,48.3 |
| 50 | 516.1 | 572.9 | 636.9 | 578.8 | 541.0 | 644.1 | 717.1 | 622.4 | 45- 50 | 256.7 | 1799 | 56.4,56.4 |
| 55 | 437.0 | 511.4 | 582.3 | 515.6 | 461.9 | 580.8 | 656.2 | 558.6 | 50- 55 | 248.0 | 2047 | 64.2,64.2 |
| 60 | 359.0 | 451.8 | 527.6 | 454.5 | 382.7 | 519.0 | 595.4 | 496.6 | 55- 60 | 233.3 | 2280 | 71.5,71.5 |
| 65 | 282.5 | 391.9 | 472.9 | 392.6 | 305.4 | 450.7 | 534.5 | 430.0 | 60- 65 | 213.8 | 2494 | 78.2,78.2 |
| 70 | 208.6 | 334.9 | 418.2 | 333.4 | 228.4 | 385.6 | 473.7 | 367.0 | 65- 70 | 190.3 | 2684 | 84.1,84.1 |
| 75 | 138.8 | 280.9 | 363.5 | 277.4 | 156.9 | 323.8 | 412.9 | 307.8 | 70- 75 | 164.2 | 2849 | 89.3,89.3 |
| 80 | 75.80 | 231.5 | 318.8 | 226.2 | 91.85 | 266.4 | 360.9 | 252.8 | 75- 80 | 137.6 | 2986 | 93.6,93.6 |
| 85 | 28.60 | 193.2 | 274.0 | 187.8 | 40.20 | 218.8 | 308.9 | 207.2 | 80- 85 | 112.9 | 3099 | 97.2,97.2 |
| 90 | 9.910 | 157.0 | 229.3 | 151.6 | 14.37 | 173.4 | 257.0 | 164.4 | 85- 90 | 90.91 | 3190 | 100,100 |
| 95 | | | | | | | | | 90- 95 | | | |
| 100 | | | | | | | | | 95-100 | | | |
| 105 | | | | | | | | | 100-105 | | | |
| 110 | | | | | | | | | 105-110 | | | |
| 115 | | | | | | | | | 110-115 | | | |
| 120 | | | | | | | | | 115-120 | | | |
| 125 | | | | | | | | | 120-125 | | | |
| 130 | | | | | | | | | 125-130 | | | |
| 135 | | | | | | | | | 130-135 | | | |
| 140 | | | | | | | | | 135-140 | | | |
| 145 | | | | | | | | | 140-145 | | | |
| 150 | | | | | | | | | 145-150 | | | |
| 155 | | | | | | | | | 150-155 | | | |
| 160 | | | | | | | | | 155-160 | | | |
| 165 | | | | | | | | | 160-165 | | | |
| 170 | | | | | | | | | 165-170 | | | |
| 175 | | | | | | | | | 170-175 | | | |
| 180 | | | | | | | | | 175-180 | | | |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | | |

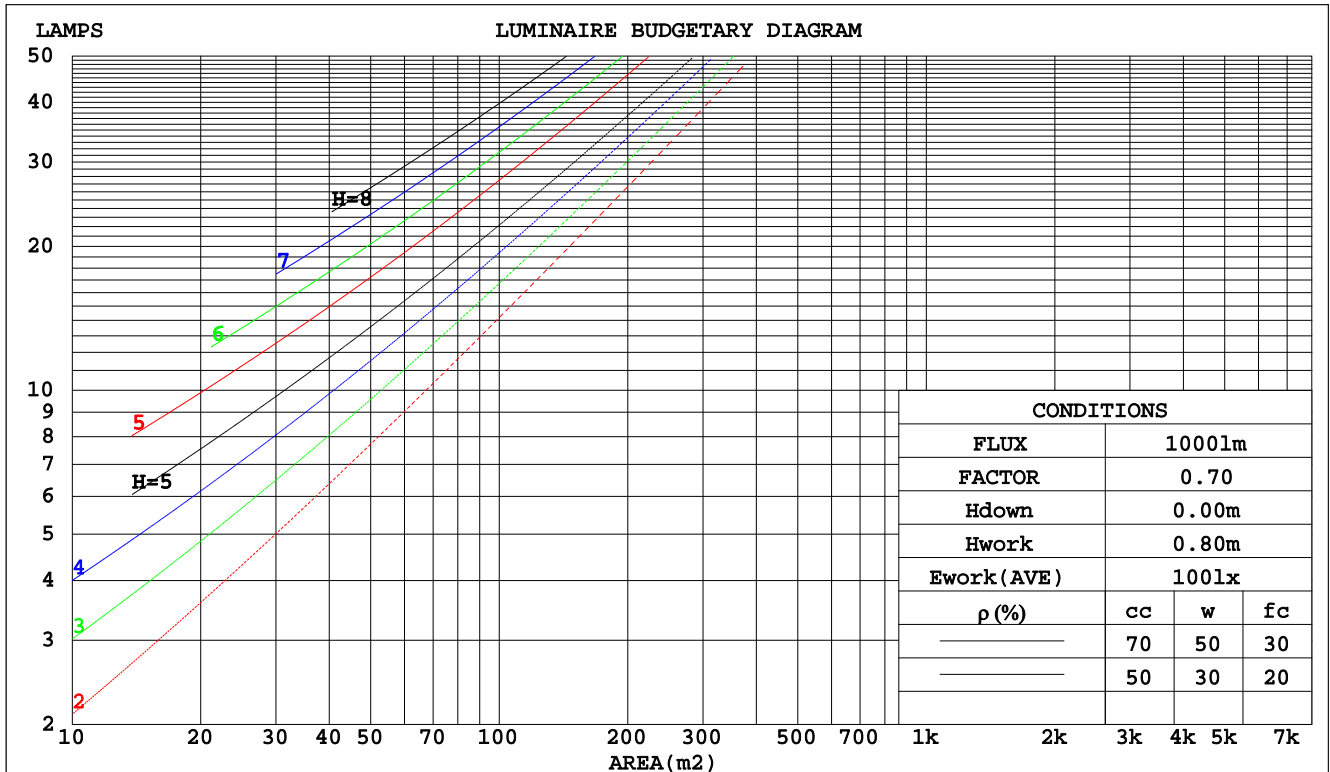
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.900m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

| | | |
|---|-------------------|-------------------|
| Test:U:120.4V I:0.1810A P:21.70W PF:0.9957 Lamp Flux:3189.94x1 lm | | |
| NAME: MLSN4-22/D10/U/50 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:1182*66*14mm | PROTECTION ANGLE: |

| 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 | | | | | | 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 | 1.00 |
| 1.0 | 1.01 | .96 | .91 | .98 | .94 | .89 | .94 | .90 | .87 | .90 | .87 | .84 | .86 | .84 | .81 | .79 |
| 2.0 | .87 | .79 | .73 | .85 | .78 | .72 | .81 | .75 | .70 | .78 | .73 | .68 | .75 | .71 | .67 | .65 |
| 3.0 | .76 | .67 | .60 | .74 | .66 | .59 | .71 | .64 | .58 | .68 | .62 | .57 | .66 | .60 | .56 | .54 |
| 4.0 | .67 | .57 | .50 | .66 | .57 | .50 | .63 | .55 | .49 | .61 | .54 | .48 | .58 | .53 | .48 | .45 |
| 5.0 | .60 | .50 | .43 | .58 | .50 | .43 | .56 | .48 | .42 | .54 | .47 | .42 | .52 | .46 | .41 | .39 |
| 6.0 | .54 | .44 | .38 | .53 | .44 | .37 | .51 | .43 | .37 | .49 | .42 | .37 | .47 | .41 | .36 | .34 |
| 7.0 | .49 | .39 | .33 | .48 | .39 | .33 | .46 | .38 | .33 | .45 | .38 | .32 | .43 | .37 | .32 | .30 |
| 8.0 | .44 | .36 | .29 | .44 | .35 | .29 | .42 | .35 | .29 | .41 | .34 | .29 | .40 | .33 | .29 | .27 |
| 9.0 | .41 | .32 | .26 | .40 | .32 | .26 | .39 | .31 | .26 | .38 | .31 | .26 | .37 | .31 | .26 | .24 |
| 10.0 | .38 | .29 | .24 | .37 | .29 | .24 | .36 | .29 | .24 | .35 | .28 | .24 | .34 | .28 | .24 | .22 |



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.900m [K=1.0000]
 Remarks:

WEC AND CCEC

| | | |
|---|-------------------|-------------------|
| Test:U:120.4V I:0.1810A P:21.70W PF:0.9957 Lamp Flux:3189.94x1 lm | | |
| NAME: MLSN4-22/D10/U/50 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:1182*66*14mm | PROTECTION ANGLE: |

| 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 | | | | | | Wall Exitance Coefficients(WEC) | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | | |
| 1.0 | .369 | .210 | .067 | .362 | .207 | .066 | .349 | .200 | .064 | .336 | .194 | .062 | .325 | .188 | .061 | | |
| 2.0 | .326 | .179 | .055 | .320 | .176 | .054 | .308 | .171 | .053 | .297 | .167 | .052 | .287 | .162 | .051 | | |
| 3.0 | .293 | .156 | .047 | .287 | .154 | .046 | .277 | .150 | .046 | .267 | .146 | .045 | .258 | .143 | .044 | | |
| 4.0 | .265 | .138 | .041 | .260 | .136 | .040 | .251 | .133 | .040 | .242 | .130 | .039 | .234 | .127 | .039 | | |
| 5.0 | .242 | .123 | .036 | .238 | .122 | .036 | .230 | .120 | .035 | .222 | .117 | .035 | .215 | .115 | .034 | | |
| 6.0 | .223 | .112 | .032 | .219 | .111 | .032 | .211 | .108 | .032 | .204 | .106 | .031 | .198 | .104 | .031 | | |
| 7.0 | .206 | .102 | .029 | .202 | .101 | .029 | .196 | .099 | .029 | .190 | .097 | .028 | .184 | .096 | .028 | | |
| 8.0 | .191 | .094 | .026 | .188 | .093 | .026 | .182 | .091 | .026 | .177 | .090 | .026 | .172 | .088 | .026 | | |
| 9.0 | .179 | .086 | .024 | .176 | .086 | .024 | .171 | .084 | .024 | .166 | .083 | .024 | .161 | .082 | .024 | | |
| 10.0 | .167 | .080 | .022 | .165 | .080 | .022 | .160 | .078 | .022 | .156 | .077 | .022 | .151 | .076 | .022 | | |

| 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 | .184 | .156 | .130 | .158 | .134 | .112 | .108 | .092 | .077 | .062 | .053 | .045 | .020 | .017 | .015 | |
| 2.0 | .177 | .132 | .094 | .151 | .113 | .081 | .104 | .078 | .057 | .060 | .046 | .033 | .019 | .015 | .011 | |
| 3.0 | .169 | .114 | .071 | .145 | .099 | .062 | .099 | .069 | .043 | .057 | .040 | .025 | .018 | .013 | .008 | |
| 4.0 | .161 | .101 | .056 | .138 | .088 | .049 | .095 | .061 | .034 | .055 | .036 | .020 | .018 | .012 | .007 | |
| 5.0 | .153 | .091 | .045 | .131 | .079 | .039 | .090 | .055 | .028 | .052 | .032 | .017 | .017 | .011 | .005 | |
| 6.0 | .145 | .083 | .038 | .125 | .072 | .033 | .086 | .050 | .023 | .050 | .030 | .014 | .016 | .010 | .005 | |
| 7.0 | .138 | .076 | .032 | .119 | .066 | .028 | .082 | .046 | .020 | .048 | .027 | .012 | .015 | .009 | .004 | |
| 8.0 | .131 | .070 | .028 | .113 | .061 | .024 | .078 | .043 | .017 | .046 | .025 | .010 | .015 | .008 | .003 | |
| 9.0 | .125 | .065 | .025 | .108 | .056 | .021 | .075 | .040 | .015 | .043 | .023 | .009 | .014 | .008 | .003 | |
| 10.0 | .119 | .061 | .022 | .103 | .053 | .019 | .071 | .037 | .014 | .042 | .022 | .008 | .013 | .007 | .003 | |

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.900m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

| | | | | | | | | | | | |
|---|-----|------------------|------|------|-------------------|------|----------------|-------------------|------|------|------|
| Test:U:120.4V I:0.1810A P:21.70W PF:0.9957 Lamp Flux:3189.94x1 lm | | | | | | | | | | | |
| NAME: MLSN4-22/D10/U/50 | | | | | TYPE:LED | | | WEIGHT: | | | |
| SPEC.: | | | | | DIM.: | | | SERIAL No.: | | | |
| MFR.: | | | | | SUR.:1182*66*14mm | | | PROTECTION ANGLE: | | | |
| ceiling/cavity | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | |
| walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | |
| working plane | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| x = 2H y = 2H | | 15.4 | 17.0 | 15.7 | 17.2 | 17.4 | 17.1 | 18.7 | 17.3 | 18.9 | 19.1 |
| 3H | | 16.8 | 18.2 | 17.1 | 18.5 | 18.7 | 19.4 | 20.9 | 19.7 | 21.1 | 21.3 |
| 4H | | 17.3 | 18.7 | 17.6 | 18.9 | 19.2 | 20.6 | 22.0 | 20.9 | 22.3 | 22.5 |
| 6H | | 17.6 | 18.9 | 17.9 | 19.2 | 19.5 | 21.9 | 23.3 | 22.3 | 23.6 | 23.8 |
| 8H | | 17.7 | 19.0 | 18.0 | 19.2 | 19.5 | 22.7 | 24.0 | 23.0 | 24.3 | 24.6 |
| 12H | | 17.7 | 19.0 | 18.0 | 19.3 | 19.6 | 23.5 | 24.8 | 23.9 | 25.1 | 25.4 |
| 4H | 2H | 16.4 | 17.8 | 16.7 | 18.1 | 18.3 | 17.6 | 19.1 | 18.0 | 19.3 | 19.6 |
| | 3H | 18.0 | 19.3 | 18.4 | 19.6 | 19.9 | 20.2 | 21.5 | 20.5 | 21.8 | 22.1 |
| | 4H | 18.7 | 19.9 | 19.1 | 20.2 | 20.5 | 21.6 | 22.8 | 22.0 | 23.1 | 23.4 |
| | 6H | 19.2 | 20.2 | 19.6 | 20.6 | 21.0 | 23.2 | 24.2 | 23.6 | 24.6 | 25.0 |
| | 8H | 19.4 | 20.3 | 19.8 | 20.7 | 21.1 | 24.1 | 25.0 | 24.5 | 25.4 | 25.8 |
| | 12H | 19.5 | 20.4 | 19.9 | 20.8 | 21.2 | 25.0 | 26.0 | 25.5 | 26.3 | 26.8 |
| 8H | 4H | 19.5 | 20.5 | 20.0 | 20.9 | 21.3 | 21.9 | 22.9 | 22.4 | 23.3 | 23.7 |
| | 6H | 20.4 | 21.2 | 20.8 | 21.6 | 22.1 | 23.8 | 24.6 | 24.3 | 25.0 | 25.5 |
| | 8H | 20.8 | 21.5 | 21.2 | 21.9 | 22.4 | 24.9 | 25.6 | 25.4 | 26.1 | 26.5 |
| | 12H | 21.0 | 21.7 | 21.5 | 22.1 | 22.6 | 26.2 | 26.8 | 26.6 | 27.3 | 27.7 |
| 12H | 4H | 19.8 | 20.7 | 20.2 | 21.1 | 21.5 | 22.0 | 22.9 | 22.4 | 23.3 | 23.7 |
| | 6H | 20.9 | 21.6 | 21.3 | 22.0 | 22.5 | 23.9 | 24.7 | 24.4 | 25.1 | 25.6 |
| | 8H | 21.4 | 22.0 | 21.9 | 22.5 | 23.0 | 25.1 | 25.8 | 25.6 | 26.2 | 26.7 |
| Variations with the observer position at spacings: | | | | | | | | | | | |
| S = 1.0H | | + 0.1 / - 0.1 | | | | | + 0.1 / - 0.1 | | | | |
| 1.5H | | + 0.2 / - 0.2 | | | | | + 0.2 / - 0.3 | | | | |
| 2.0H | | + 0.1 / - 0.3 | | | | | + 0.2 / - 0.4 | | | | |

CIE Pub.117 Corrected 3190 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.0)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.900m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

| | | |
|---|-------------------|-------------------|
| Test:U:120.4V I:0.1810A P:21.70W PF:0.9957 Lamp Flux:3189.94x1 lm | | |
| NAME: MLSN4-22/D10/U/50 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:1182*66*14mm | PROTECTION 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) $k(RI) \times RCR = 5$ | | | | | | | | | |
| $k = 0.60$ | 55 | 43 | 36 | 55 | 43 | 36 | 53 | 43 | 36 | 29 |
| 0.80 | 65 | 53 | 45 | 64 | 52 | 45 | 62 | 51 | 44 | 37 |
| 1.00 | 73 | 61 | 53 | 72 | 60 | 53 | 69 | 62 | 52 | 45 |
| 1.25 | 80 | 68 | 61 | 78 | 68 | 60 | 76 | 66 | 60 | 52 |
| 1.50 | 85 | 74 | 66 | 83 | 73 | 66 | 80 | 71 | 65 | 57 |
| 2.00 | 92 | 82 | 75 | 90 | 81 | 74 | 86 | 79 | 73 | 64 |
| 2.50 | 96 | 87 | 80 | 94 | 86 | 79 | 90 | 83 | 77 | 69 |
| 3.00 | 99 | 91 | 85 | 97 | 90 | 84 | 93 | 87 | 82 | 73 |
| 4.00 | 104 | 97 | 91 | 101 | 95 | 90 | 97 | 92 | 87 | 78 |
| 5.00 | 106 | 101 | 96 | 104 | 99 | 94 | 99 | 95 | 91 | 81 |
| ROOM INDEX | UF(total) | | | | | | | | | Direct |
| According to DIN EN 13032-2 2004 | | | Suspended | | | | | SHRNOM = 1.25 | | |

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.900m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

| | | |
|---|-------------------|-------------------|
| Test:U:120.4V I:0.1810A P:21.70W PF:0.9957 Lamp Flux:3189.94x1 lm | | |
| NAME: MLSN4-22/D10/U/50 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:1182*66*14mm | PROTECTION ANGLE: |

Conical surface Flux(90deg):

1542.2 lm

%lum = 48.3%

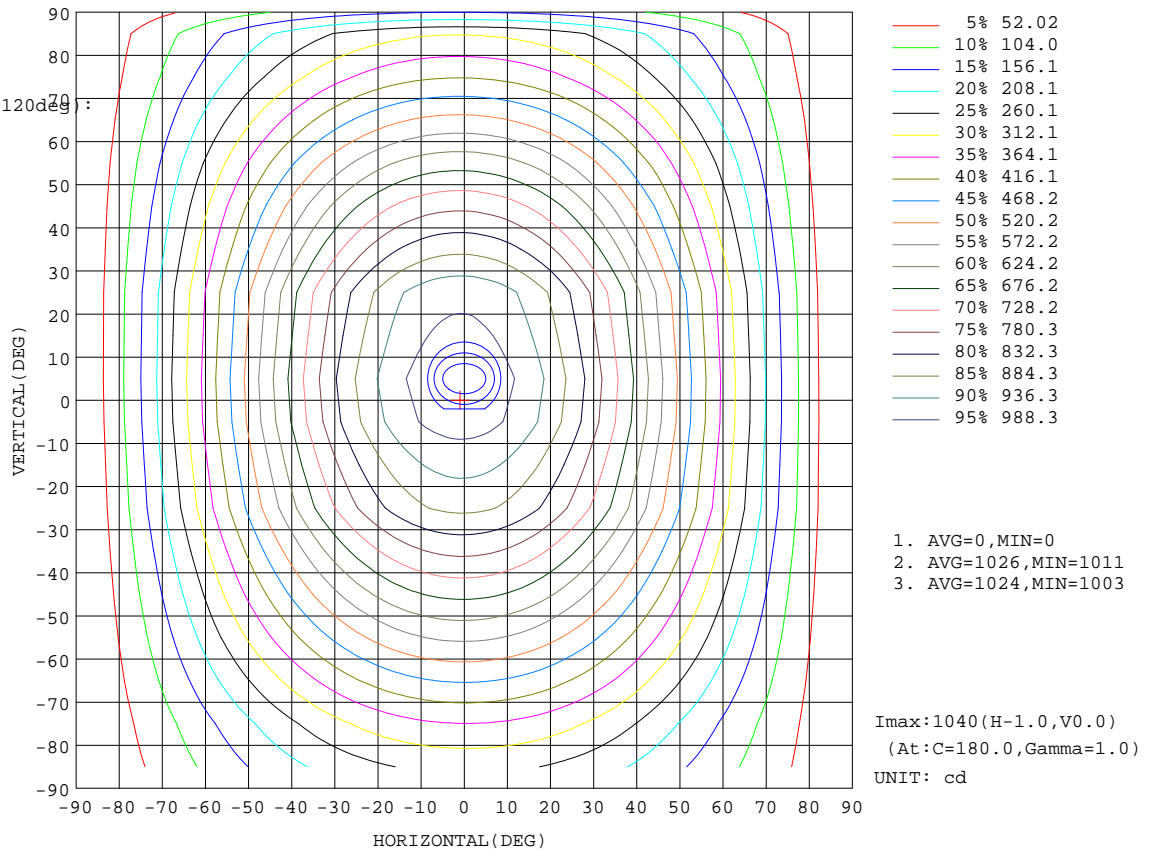
%lamp = 48.3%

Conical surface Flux(120deg):

2280.2 lm

%lum = 71.5%

%lamp = 71.5%

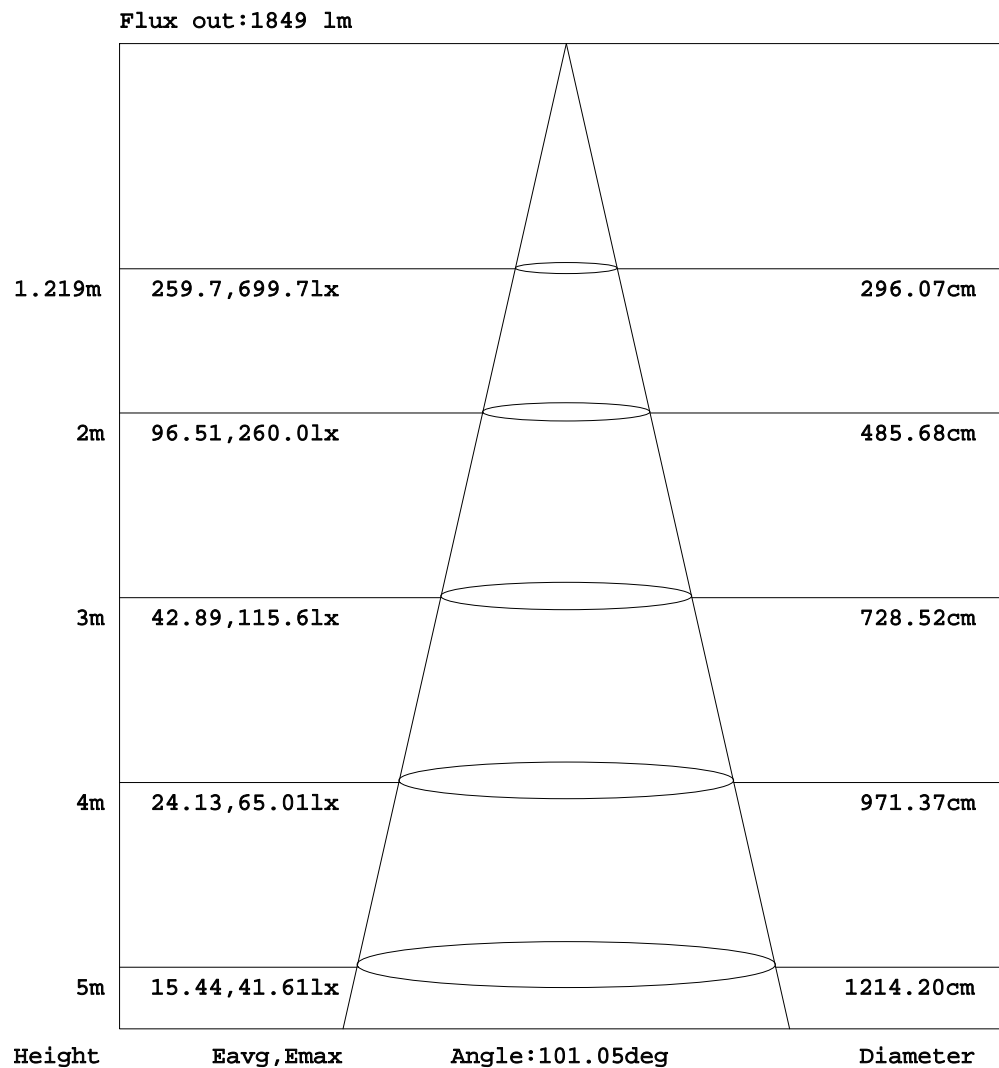


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:8.900m [K=1.0000]
Remarks:

AAI Figure

| | | |
|---|-------------------|-------------------|
| Test:U:120.4V I:0.1810A P:21.70W PF:0.9957 Lamp Flux:3189.94x1 lm | | |
| NAME: MLSN4-22/D10/U/50 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:1182*66*14mm | PROTECTION ANGLE: |



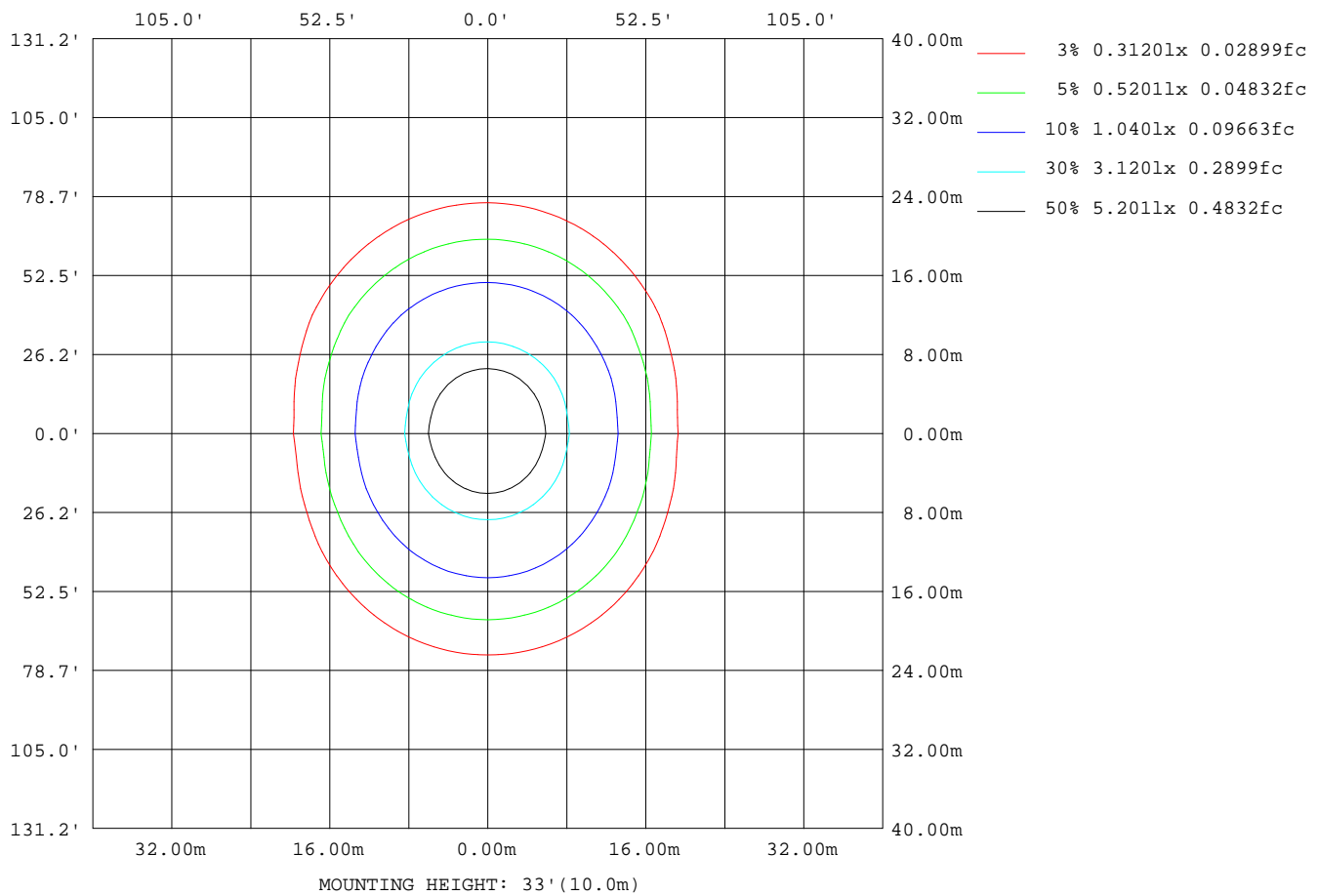
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.900m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

| | | |
|---|-------------------|-------------------|
| Test:U:120.4V I:0.1810A P:21.70W PF:0.9957 Lamp Flux:3189.94x1 lm | | |
| NAME: MLSN4-22/D10/U/50 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:1182*66*14mm | PROTECTION ANGLE: |



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity: 65.0%
 Test Distance: 8.900m [K=1.0000]
 Remarks:

LED Avg.L Report

| | | |
|---|-------------------|-------------------|
| Test:U:120.4V I:0.1810A P:21.70W PF:0.9957 Lamp Flux:3189.94x1 lm | | |
| NAME: MLSN4-22/D10/U/50 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:1182*66*14mm | PROTECTION ANGLE: |

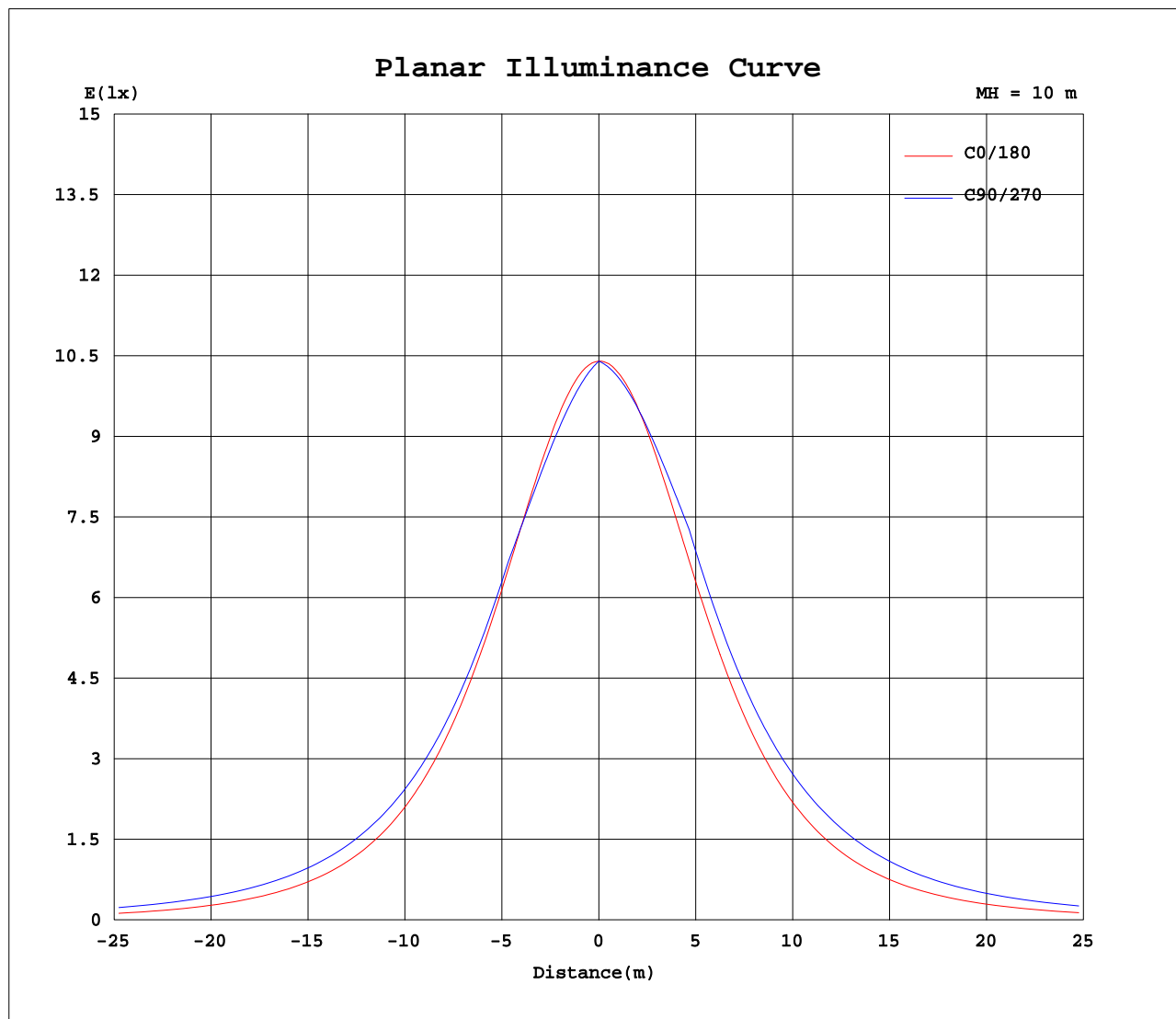
| AvgL | cd/m2 |
|----------------|-------|
| L_0~180(65)av | 2318 |
| L_0~180(75)av | 1904 |
| L_0~180(85)av | 1316 |
| L_90~270(65)av | 3973 |
| L_90~270(75)av | 5000 |
| L_90~270(85)av | 11148 |
| L_45(65)av | 3284 |
| L_45(75)av | 3831 |
| L_45(85)av | 7717 |

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.900m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity: 65.0%
Test Distance: 8.900m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-------------------|-------------------|
| Test:U:120.4V I:0.1810A P:21.70W PF:0.9957 Lamp Flux:3189.94x1 lm | | |
| NAME: MLSN4-22/D10/U/50 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:1182*66*14mm | PROTECTION ANGLE: |

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2020-06-16

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:8.900m [K=1.0000]
Remarks:

```

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-------------------|-------------------|
| Test:U:120.4V I:0.1810A P:21.70W PF:0.9957 Lamp Flux:3189.94x1 lm | | |
| NAME: MLSN4-22/D10/U/50 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:1182*66*14mm | PROTECTION ANGLE: |

Table--2

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.900m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-------------------|-------------------|
| Test:U:120.4V I:0.1810A P:21.70W PF:0.9957 Lamp Flux:3189.94x1 lm | | |
| NAME: MLSN4-22/D10/U/50 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:1182*66*14mm | PROTECTION ANGLE: |

Table--3

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2020-06-16

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:8.900m [K=1.0000]
Remarks:

```

LUMINOUS DISTRIBUTION INTENSITY DATA

| | | |
|---|-------------------|-------------------|
| Test:U:120.4V I:0.1810A P:21.70W PF:0.9957 Lamp Flux:3189.94x1 lm | | |
| NAME: MLSN4-22/D10/U/50 | TYPE:LED | WEIGHT: |
| SPEC.: | DIM.: | SERIAL No.: |
| MFR.: | SUR.:1182*66*14mm | PROTECTION ANGLE: |

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:8.900m [K=1.0000]
Remarks:

```