

GONIOPHOTOMETERS SYSTEM TEST REPORT

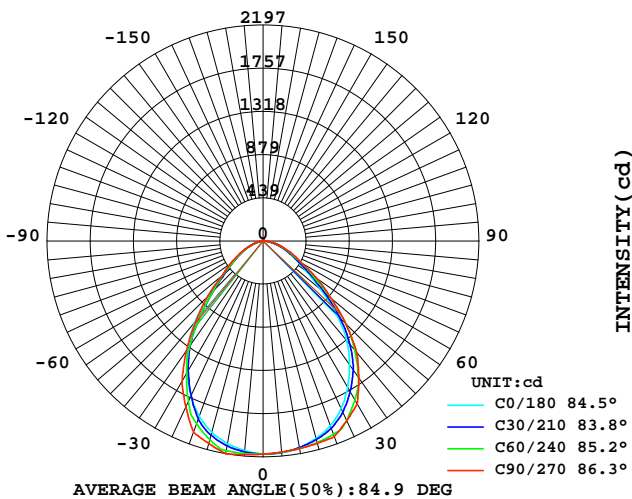
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: 17120312

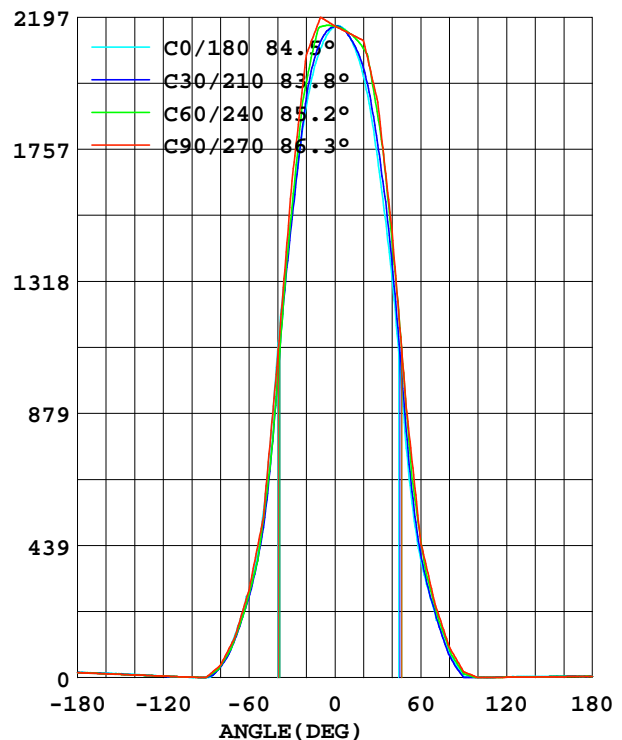
| | | | |
|------------------------------------|--|-----------------------|---------------------|
| MANUFACTURER: SGSLight Limited | | Address: | |
| NAME: TLP-30120-38-NW-110V-NU-IP65 | | TYPE:LED Panel Light | WEIGHT: |
| SPECIFICATION:4000K CRI>90 | | DIMENSION: 1196x296mm | SERIAL No.:17120312 |

| | | | | | |
|------------------|--------|--------------------|--------|------------------|-------|
| DATA OF LAMP | | Imax(cd) | 2198 | S/MH(C0/180) | 1.09 |
| MODEL | 4000K | EFFICIENCY(%) | 100.0 | S/MH(C90/270) | 1.13 |
| NOMINAL POWER(W) | 38 | TOTAL FLUX(lm) | 4213.1 | Voltage(V) | 218.8 |
| RATED VOLTAGE(V) | 218 | EFFICIENCY(lm/W) | 112.7 | Current(A) | 0.175 |
| NOMINAL FLUX(lm) | 4213.2 | η up(%) | 0.6 | Power(W) | 37.40 |
| LAMPS QUANTITY | 1 | η down(%) | 99.4 | Power Factor(PF) | 0.966 |
| TEST VOLTAGE(V) | 218.9 | Effective Flux(lm) | 3979.8 | EEL | 0.128 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2017-12-03

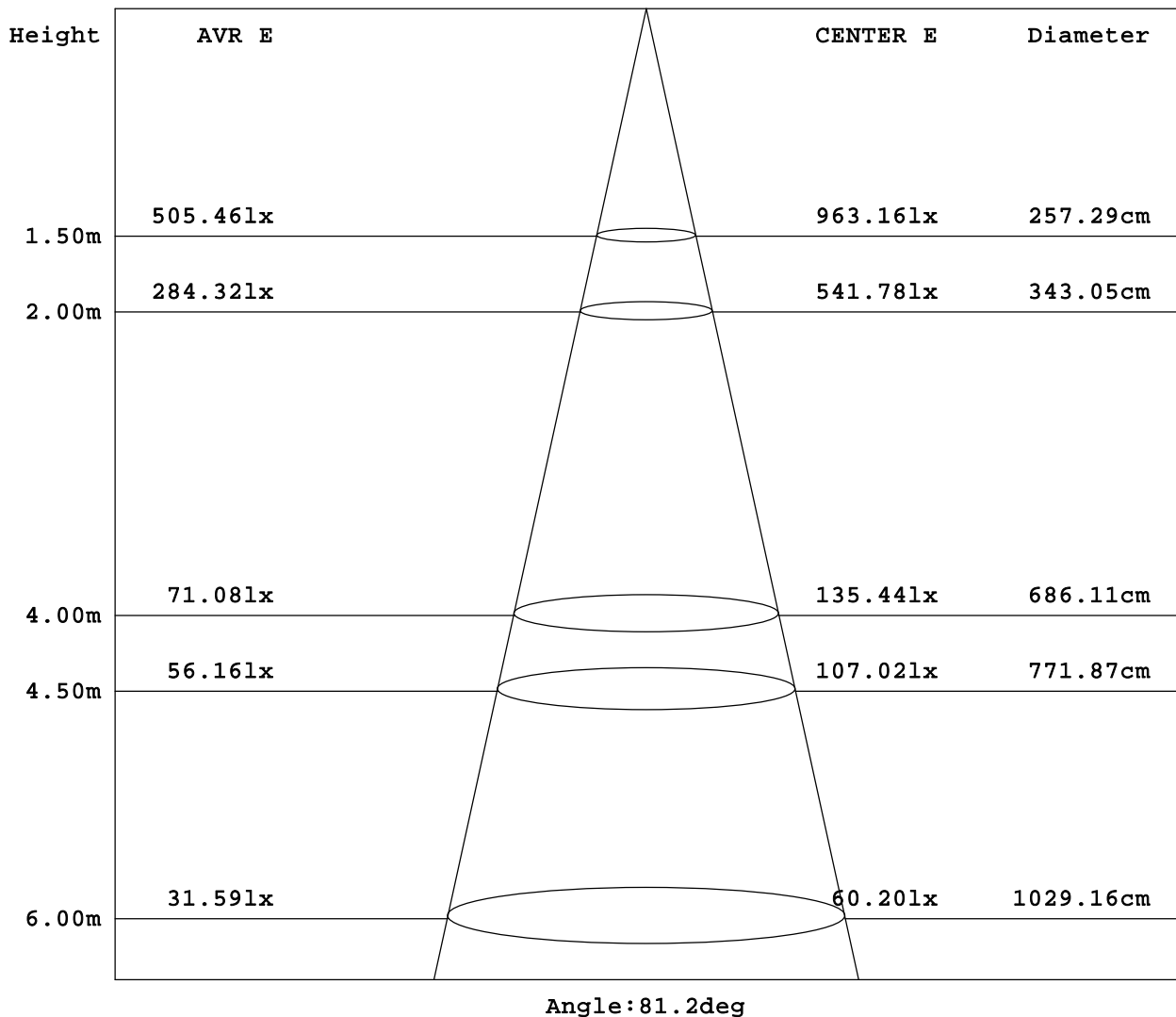
Test Set: 8.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number: 17120312

| | | |
|------------------------------------|-----------------------|---------------------|
| MANUFACTURER: SGSLight Limited | Address: | |
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 Temperature:25.3DEG
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 Humidity:65.0%
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GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number: 17120312

| | | | |
|------------------------------------|--|-----------------------|---------------------|
| MANUFACTURER: SGSLight Limited | | Address: | |
| NAME: TLP-30120-38-NW-110V-NU-IP65 | | TYPE:LED Panel Light | WEIGHT: |
| SPECIFICATION:4000K CRI>90 | | DIMENSION: 1196x296mm | SERIAL No.:17120312 |

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | zone | total |
|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|
| 5.0 | 2142 | 2161 | 2182 | 2178 | 2164 | 2159 | 2155 | 2143 | 0- 5 | 51.73 | 51.73 |
| 10.0 | 2093 | 2140 | 2197 | 2174 | 2133 | 2139 | 2143 | 2106 | 5- 10 | 153.8 | 205.5 |
| 15.0 | 2014 | 2080 | 2134 | 2141 | 2081 | 2107 | 2131 | 2057 | 10- 15 | 251.0 | 456.6 |
| 20.0 | 1901 | 1939 | 2071 | 2036 | 2001 | 2055 | 2119 | 1979 | 15- 20 | 338.1 | 794.8 |
| 25.0 | 1737 | 1767 | 1861 | 1903 | 1878 | 1974 | 2016 | 1867 | 20- 25 | 408.0 | 1203 |
| 30.0 | 1545 | 1539 | 1652 | 1708 | 1724 | 1829 | 1914 | 1704 | 25- 30 | 451.9 | 1655 |
| 35.0 | 1345 | 1266 | 1357 | 1472 | 1536 | 1639 | 1699 | 1511 | 30- 35 | 468.1 | 2123 |
| 40.0 | 1085 | 980.6 | 1061 | 1217 | 1324 | 1429 | 1483 | 1306 | 35- 40 | 451.8 | 2575 |
| 45.0 | 784.7 | 709.6 | 796.6 | 914.8 | 1061 | 1143 | 1190 | 1022 | 40- 45 | 403.4 | 2978 |
| 50.0 | 552.0 | 493.7 | 531.8 | 642.3 | 763.2 | 849.5 | 897.4 | 745.5 | 45- 50 | 329.9 | 3308 |
| 55.0 | 392.5 | 370.1 | 411.7 | 472.6 | 536.2 | 609.7 | 674.2 | 546.8 | 50- 55 | 255.2 | 3564 |
| 60.0 | 288.8 | 269.4 | 291.7 | 337.3 | 395.0 | 424.0 | 451.1 | 396.5 | 55- 60 | 196.7 | 3760 |
| 65.0 | 211.8 | 190.8 | 212.1 | 249.7 | 296.3 | 314.4 | 347.9 | 296.4 | 60- 65 | 150.4 | 3911 |
| 70.0 | 139.0 | 124.7 | 132.5 | 171.4 | 212.9 | 224.2 | 244.8 | 217.2 | 65- 70 | 113.0 | 4024 |
| 75.0 | 79.59 | 72.55 | 86.69 | 98.88 | 143.2 | 144.7 | 173.1 | 149.0 | 70- 75 | 78.38 | 4102 |
| 80.0 | 38.09 | 37.68 | 40.89 | 56.03 | 82.30 | 86.58 | 101.3 | 92.53 | 75- 80 | 49.11 | 4151 |
| 85.0 | 9.100 | 13.48 | 20.59 | 23.84 | 40.20 | 40.62 | 60.34 | 47.95 | 80- 85 | 25.75 | 4177 |
| 90.0 | 0.900 | 0.400 | 0.300 | 0.300 | 11.70 | 6.300 | 19.29 | 16.50 | 85- 90 | 9.967 | 4187 |
| 95.0 | 0 | 0.964 | 0.800 | 0.723 | 1.800 | 1.882 | 9.700 | 5.037 | 90- 95 | 2.213 | 4189 |
| 100.0 | 0.800 | 1.600 | 1.300 | 1.460 | 1.700 | 0.160 | 0.100 | 0.332 | 95-100 | 0.859 | 4190 |
| 105.0 | 2.400 | 2.374 | 2.250 | 2.504 | 0.800 | 0.430 | 0.350 | 0.414 | 100-105 | 0.672 | 4191 |
| 110.0 | 3.300 | 3.131 | 3.200 | 3.485 | 0.800 | 0.689 | 0.600 | 0.545 | 105-110 | 0.941 | 4192 |
| 115.0 | 4.200 | 3.908 | 4.150 | 4.424 | 1.600 | 1.136 | 0.850 | 0.668 | 110-115 | 1.208 | 4193 |
| 120.0 | 5.799 | 5.030 | 5.100 | 5.384 | 2.400 | 1.169 | 1.100 | 0.785 | 115-120 | 1.463 | 4194 |
| 125.0 | 6.699 | 5.813 | 6.050 | 6.555 | 3.200 | 1.598 | 1.350 | 1.103 | 120-125 | 1.679 | 4196 |
| 130.0 | 7.599 | 6.822 | 7.000 | 7.779 | 3.200 | 1.993 | 1.600 | 1.396 | 125-130 | 1.851 | 4198 |
| 135.0 | 9.200 | 7.662 | 7.950 | 8.705 | 3.200 | 2.236 | 1.850 | 1.542 | 130-135 | 1.983 | 4200 |
| 140.0 | 10.10 | 9.160 | 8.900 | 9.484 | 3.999 | 2.465 | 2.100 | 1.679 | 135-140 | 2.063 | 4202 |
| 145.0 | 11.70 | 9.985 | 9.850 | 10.75 | 3.999 | 2.682 | 2.349 | 2.782 | 140-145 | 2.084 | 4204 |
| 150.0 | 12.60 | 10.64 | 10.80 | 11.60 | 3.999 | 2.889 | 2.599 | 2.848 | 145-150 | 2.045 | 4206 |
| 155.0 | 13.39 | 11.89 | 11.75 | 12.31 | 4.799 | 3.705 | 2.849 | 2.986 | 150-155 | 1.915 | 4208 |
| 160.0 | 14.19 | 13.20 | 12.70 | 13.65 | 3.999 | 3.934 | 3.099 | 3.378 | 155-160 | 1.721 | 4210 |
| 165.0 | 14.99 | 13.86 | 13.65 | 14.46 | 4.799 | 4.156 | 3.349 | 3.563 | 160-165 | 1.454 | 4211 |
| 170.0 | 15.79 | 15.21 | 14.60 | 15.14 | 4.799 | 3.777 | 3.599 | 3.744 | 165-170 | 1.110 | 4212 |
| 175.0 | 16.50 | 16.59 | 15.55 | 15.82 | 4.799 | 3.922 | 3.849 | 3.922 | 170-175 | 0.701 | 4213 |
| 180.0 | 16.50 | 16.50 | 16.50 | 16.50 | 4.099 | 4.099 | 4.099 | 4.099 | 175-180 | 0.246 | 4213 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | |

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2017-12-03

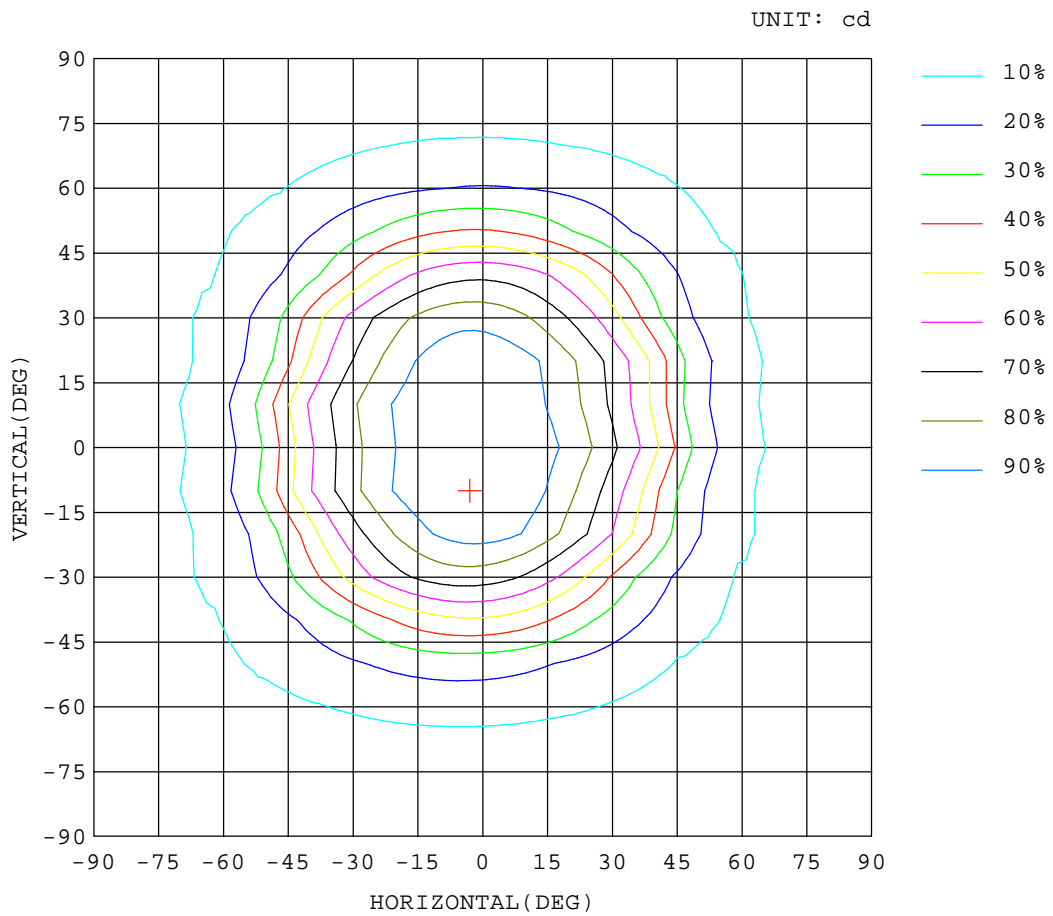
Test Set: 8.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number: 17120312

| | | |
|------------------------------------|-----------------------|---------------------|
| MANUFACTURER: SGSLight Limited | Address: | |
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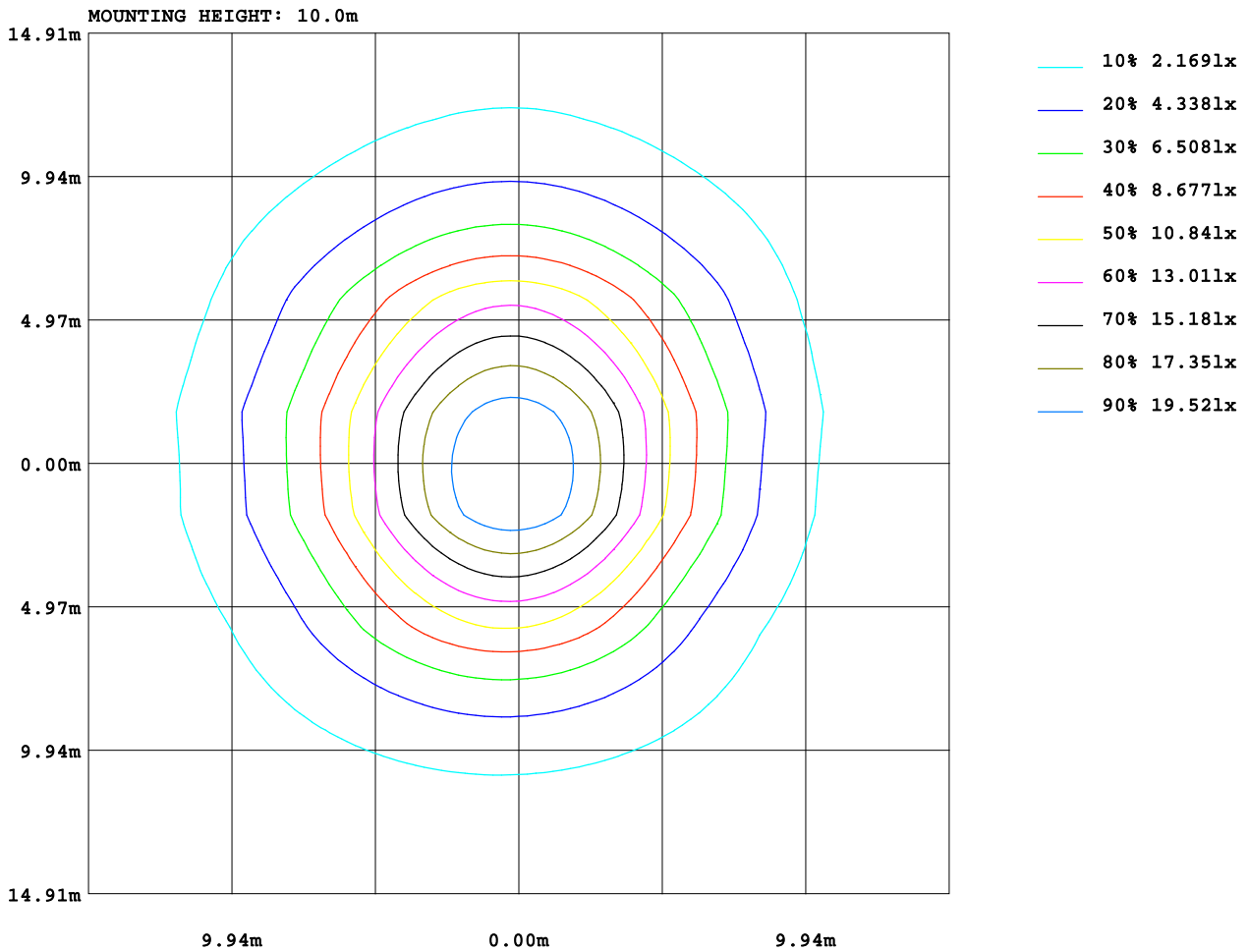
Test Set: 8.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number: 17120312

| | | |
|------------------------------------|-----------------------|---------------------|
| MANUFACTURER: SGSLight Limited | Address: | |
| NAME: TLP-30120-38-NW-110V-NU-IP65 | TYPE:LED Panel Light | WEIGHT: |
| SPECIFICATION:4000K CRI>90 | DIMENSION: 1196x296mm | SERIAL No.:17120312 |



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2017-12-03

Test Set: 8.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number: 17120312

| | | | | | | | | | | |
|--|------------------|------|------|------|-----------------------|----------------|------|---------------------|------|------|
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| SPECIFICATION:4000K CRI>90 | | | | | DIMENSION: 1196x296mm | | | SERIAL No.:17120312 | | |
| 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 | 13.5 | 14.8 | 13.7 | 15.0 | 15.2 | 13.6 | 14.9 | 13.9 | 15.1 | 15.3 |
| 3H | 14.0 | 15.2 | 14.3 | 15.5 | 15.7 | 14.1 | 15.3 | 14.4 | 15.6 | 15.8 |
| 4H | 14.2 | 15.3 | 14.5 | 15.6 | 15.8 | 14.3 | 15.5 | 14.6 | 15.7 | 16.0 |
| 6H | 14.2 | 15.3 | 14.5 | 15.5 | 15.8 | 14.4 | 15.5 | 14.7 | 15.7 | 16.0 |
| 8H | 14.2 | 15.2 | 14.5 | 15.5 | 15.8 | 14.4 | 15.4 | 14.7 | 15.7 | 16.0 |
| 12H | 14.2 | 15.1 | 14.5 | 15.4 | 15.7 | 14.4 | 15.4 | 14.8 | 15.7 | 16.0 |
| 4H 2H | 13.6 | 14.8 | 13.9 | 15.0 | 15.3 | 13.7 | 14.9 | 14.1 | 15.1 | 15.4 |
| 3H | 14.3 | 15.3 | 14.7 | 15.6 | 15.9 | 14.4 | 15.4 | 14.8 | 15.7 | 16.0 |
| 4H | 14.5 | 15.4 | 14.9 | 15.8 | 16.1 | 14.7 | 15.6 | 15.1 | 15.9 | 16.3 |
| 6H | 14.6 | 15.4 | 15.0 | 15.8 | 16.2 | 14.9 | 15.6 | 15.3 | 16.0 | 16.4 |
| 8H | 14.6 | 15.4 | 15.0 | 15.7 | 16.1 | 14.9 | 15.6 | 15.3 | 16.0 | 16.4 |
| 12H | 14.6 | 15.3 | 15.0 | 15.7 | 16.1 | 14.9 | 15.6 | 15.3 | 16.0 | 16.4 |
| 8H 4H | 14.6 | 15.3 | 15.0 | 15.7 | 16.1 | 14.7 | 15.5 | 15.1 | 15.8 | 16.2 |
| 6H | 14.7 | 15.3 | 15.2 | 15.7 | 16.2 | 14.9 | 15.5 | 15.4 | 15.9 | 16.4 |
| 8H | 14.7 | 15.3 | 15.2 | 15.7 | 16.2 | 15.0 | 15.5 | 15.5 | 16.0 | 16.4 |
| 12H | 14.7 | 15.2 | 15.2 | 15.6 | 16.1 | 15.1 | 15.5 | 15.6 | 16.0 | 16.5 |
| 12H 4H | 14.5 | 15.2 | 15.0 | 15.6 | 16.0 | 14.7 | 15.4 | 15.1 | 15.7 | 16.2 |
| 6H | 14.7 | 15.2 | 15.2 | 15.7 | 16.1 | 14.9 | 15.4 | 15.4 | 15.9 | 16.3 |
| 8H | 14.7 | 15.2 | 15.2 | 15.6 | 16.1 | 15.0 | 15.5 | 15.5 | 15.9 | 16.4 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.7 / - 1.0 | | | | | + 0.6 / - 0.8 | | | | |
| 1.5H | + 1.0 / - 0.8 | | | | | + 0.9 / - 0.7 | | | | |
| 2.0H | + 1.8 / - 1.1 | | | | | + 1.7 / - 1.1 | | | | |

CIE Pub.117 Corrected 4213 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.0)

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 Temperature:25.3DEG
 Operators:Jason
 Test Date:2017-12-03

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 Humidity:65.0%
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