

GONIOPHOTOMETERS SYSTEM TEST REPORT

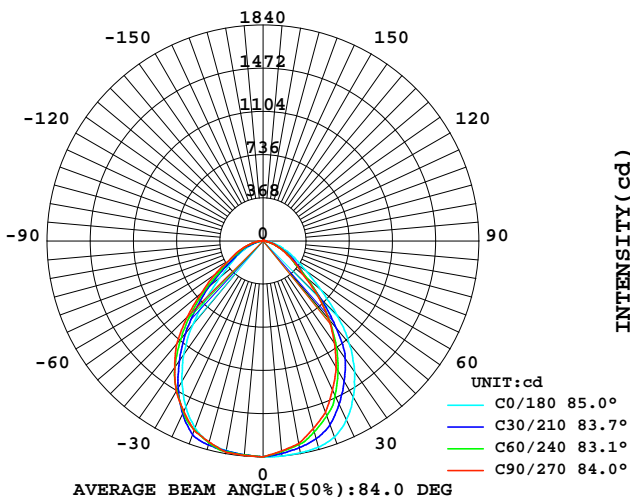
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number: 2018032105

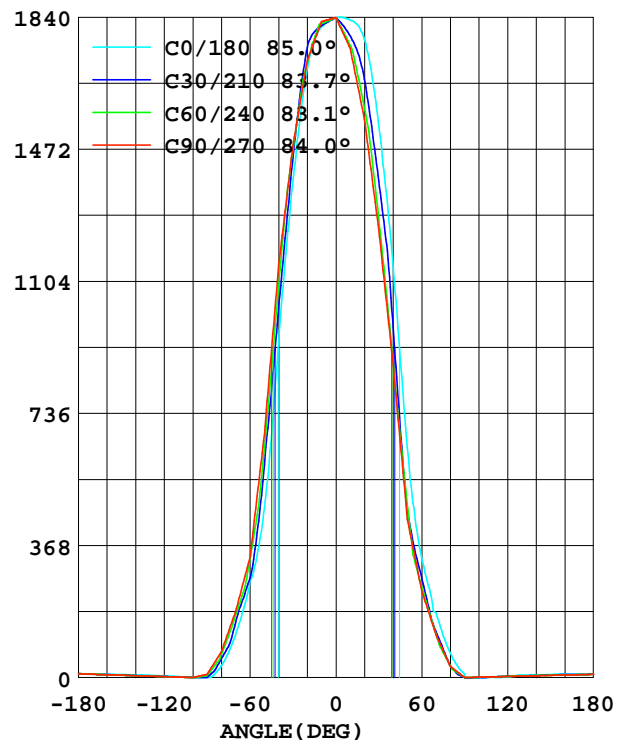
| | | | |
|----------------------------------|--|----------------------|-----------------------|
| MANUFACTURER: SGSLight Limited | | Address: | |
| NAME: TLP-6060-26-NW-130-NU-IP65 | | TYPE:LED Panel Light | WEIGHT: |
| SPECIFICATION:4000K CRI>80 | | DIMENSION: 596x596mm | SERIAL No.:2018032105 |

| | | | | | |
|------------------|--------|--------------------|--------|------------------|-------|
| DATA OF LAMP | | Imax(cd) | 1840 | S/MH(C0/180) | 1.14 |
| MODEL | 4000K | EFFICIENCY(%) | 100.0 | S/MH(C90/270) | 1.20 |
| NOMINAL POWER(W) | 26 | TOTAL FLUX(lm) | 3487.1 | Voltage(V) | 219.8 |
| RATED VOLTAGE(V) | 220 | EFFICIENCY(lm/W) | 130.6 | Current(A) | 0.137 |
| NOMINAL FLUX(lm) | 3487.2 | η up(%) | 0.7 | Power(W) | 26.70 |
| LAMPS QUANTITY | 1 | η down(%) | 99.3 | Power Factor(PF) | 0.935 |
| TEST VOLTAGE(V) | 219.8 | Effective Flux(lm) | 3487.2 | EEI | 0.104 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2018-03-21

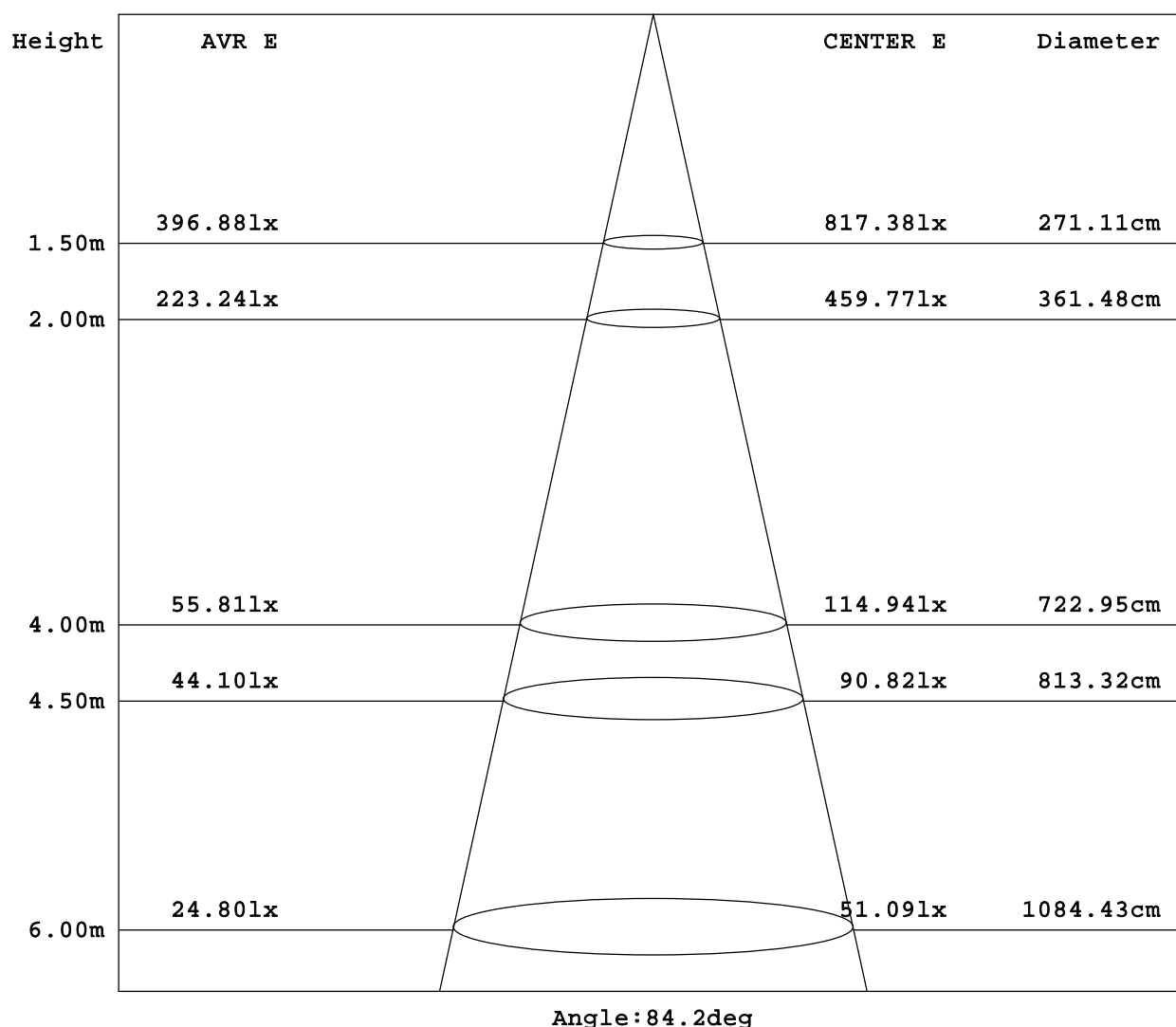
Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

AVERAGE AND CENTER E Figure

Report number: 2018032105

| | | |
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Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2018-03-21

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
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 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number: 2018032105

| | | |
|----------------------------------|-----------------------|------------------------|
| MANUFACTURER: SGSLight Limited | Address: | |
| NAME: TLP-6060-26-NW-130-NU-IP65 | TYPE: LED Panel Light | WEIGHT: |
| SPECIFICATION: 4000K CRI>80 | DIMENSION: 596x596mm | SERIAL No.: 2018032105 |

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | zone | total |
|-------|-----------------------|-------|-------|-------|-------|-------|-------|-------|---------|---------|-------|
| 5.0 | 1829 | 1829 | 1834 | 1835 | 1839 | 1808 | 1796 | 1804 | 0- 5 | 43.68 | 43.68 |
| 10.0 | 1813 | 1820 | 1828 | 1825 | 1832 | 1772 | 1753 | 1770 | 5- 10 | 129.4 | 173.1 |
| 15.0 | 1778 | 1801 | 1774 | 1806 | 1820 | 1720 | 1654 | 1717 | 10- 15 | 210.8 | 384.0 |
| 20.0 | 1697 | 1723 | 1719 | 1752 | 1779 | 1620 | 1556 | 1598 | 15- 20 | 283.0 | 667.0 |
| 25.0 | 1557 | 1606 | 1601 | 1681 | 1682 | 1501 | 1401 | 1450 | 20- 25 | 339.9 | 1007 |
| 30.0 | 1384 | 1454 | 1482 | 1550 | 1537 | 1337 | 1247 | 1284 | 25- 30 | 375.3 | 1382 |
| 35.0 | 1183 | 1292 | 1315 | 1364 | 1360 | 1123 | 1060 | 1111 | 30- 35 | 387.7 | 1770 |
| 40.0 | 930.2 | 1112 | 1148 | 1159 | 1143 | 881.5 | 873.1 | 914.2 | 35- 40 | 374.2 | 2144 |
| 45.0 | 673.8 | 837.1 | 912.4 | 953.7 | 890.0 | 671.7 | 656.5 | 670.5 | 40- 45 | 332.6 | 2477 |
| 50.0 | 474.5 | 562.4 | 677.0 | 739.3 | 640.2 | 489.5 | 440.0 | 451.1 | 45- 50 | 269.6 | 2747 |
| 55.0 | 340.0 | 420.5 | 506.0 | 516.4 | 457.0 | 356.2 | 341.0 | 349.0 | 50- 55 | 207.4 | 2954 |
| 60.0 | 272.9 | 313.9 | 335.1 | 341.6 | 333.3 | 250.9 | 242.1 | 268.0 | 55- 60 | 160.8 | 3115 |
| 65.0 | 185.5 | 227.2 | 260.1 | 266.0 | 251.3 | 191.1 | 180.5 | 193.7 | 60- 65 | 124.3 | 3239 |
| 70.0 | 120.0 | 157.6 | 185.0 | 196.3 | 180.3 | 127.6 | 118.9 | 131.2 | 65- 70 | 93.40 | 3333 |
| 75.0 | 69.90 | 105.6 | 128.5 | 124.6 | 117.5 | 68.30 | 75.09 | 83.56 | 70- 75 | 64.69 | 3397 |
| 80.0 | 33.40 | 59.83 | 72.00 | 76.53 | 68.50 | 34.34 | 31.19 | 44.94 | 75- 80 | 39.56 | 3437 |
| 85.0 | 8.700 | 25.01 | 40.50 | 38.58 | 32.90 | 11.85 | 15.74 | 16.64 | 80- 85 | 19.65 | 3457 |
| 90.0 | 0.400 | 3.400 | 9.000 | 9.300 | 9.599 | 0 | 0.300 | 0.500 | 85- 90 | 6.959 | 3464 |
| 95.0 | 0.800 | 1.008 | 4.550 | 2.740 | 0 | 0.423 | 0.700 | 0.994 | 90- 95 | 1.159 | 3465 |
| 100.0 | 1.600 | 0.360 | 0.100 | 0.435 | 0 | 0.920 | 1.100 | 1.400 | 95-100 | 0.536 | 3465 |
| 105.0 | 2.400 | 0.968 | 0.750 | 1.182 | 0.800 | 1.559 | 1.600 | 1.737 | 100-105 | 0.577 | 3466 |
| 110.0 | 3.200 | 1.551 | 1.400 | 1.895 | 1.600 | 2.078 | 2.100 | 2.061 | 105-110 | 0.884 | 3467 |
| 115.0 | 3.200 | 2.120 | 2.050 | 2.574 | 0.800 | 2.786 | 2.600 | 2.370 | 110-115 | 1.119 | 3468 |
| 120.0 | 4.799 | 2.776 | 2.700 | 3.215 | 1.600 | 3.208 | 3.100 | 2.661 | 115-120 | 1.364 | 3469 |
| 125.0 | 4.799 | 3.224 | 3.350 | 4.028 | 3.299 | 3.677 | 3.600 | 3.047 | 120-125 | 1.613 | 3471 |
| 130.0 | 6.400 | 4.087 | 4.000 | 4.785 | 6.800 | 4.489 | 4.100 | 3.592 | 125-130 | 1.830 | 3473 |
| 135.0 | 7.200 | 4.920 | 4.650 | 5.368 | 7.000 | 5.373 | 4.600 | 3.884 | 130-135 | 1.948 | 3475 |
| 140.0 | 7.200 | 5.031 | 5.300 | 5.918 | 7.900 | 5.928 | 5.100 | 4.272 | 135-140 | 1.995 | 3477 |
| 145.0 | 7.300 | 6.407 | 5.950 | 6.975 | 7.300 | 6.365 | 5.600 | 4.519 | 140-145 | 1.978 | 3479 |
| 150.0 | 8.800 | 6.457 | 6.600 | 7.513 | 8.900 | 6.949 | 6.100 | 5.823 | 145-150 | 1.932 | 3480 |
| 155.0 | 8.900 | 7.510 | 7.250 | 8.027 | 9.000 | 7.792 | 6.600 | 6.140 | 150-155 | 1.808 | 3482 |
| 160.0 | 8.900 | 7.968 | 7.900 | 8.526 | 9.800 | 7.656 | 7.100 | 7.098 | 155-160 | 1.620 | 3484 |
| 165.0 | 9.700 | 8.412 | 8.550 | 9.698 | 9.100 | 8.027 | 7.600 | 7.434 | 160-165 | 1.362 | 3485 |
| 170.0 | 9.700 | 9.576 | 9.200 | 10.20 | 9.100 | 8.389 | 8.100 | 7.760 | 165-170 | 1.038 | 3486 |
| 175.0 | 10.50 | 10.03 | 9.850 | 10.70 | 9.100 | 8.745 | 8.600 | 8.081 | 170-175 | 0.662 | 3487 |
| 180.0 | 10.50 | 10.50 | 10.50 | 10.50 | 9.100 | 9.100 | 9.100 | 9.100 | 175-180 | 0.230 | 3487 |
| DEG | LUMINOUS INTENSITY:cd | | | | | | | | | UNIT:lm | |

Test System: HOPOO HPG1900
 Temperature: 25.3 DEG
 Operators: Jason
 Test Date: 2018-03-21

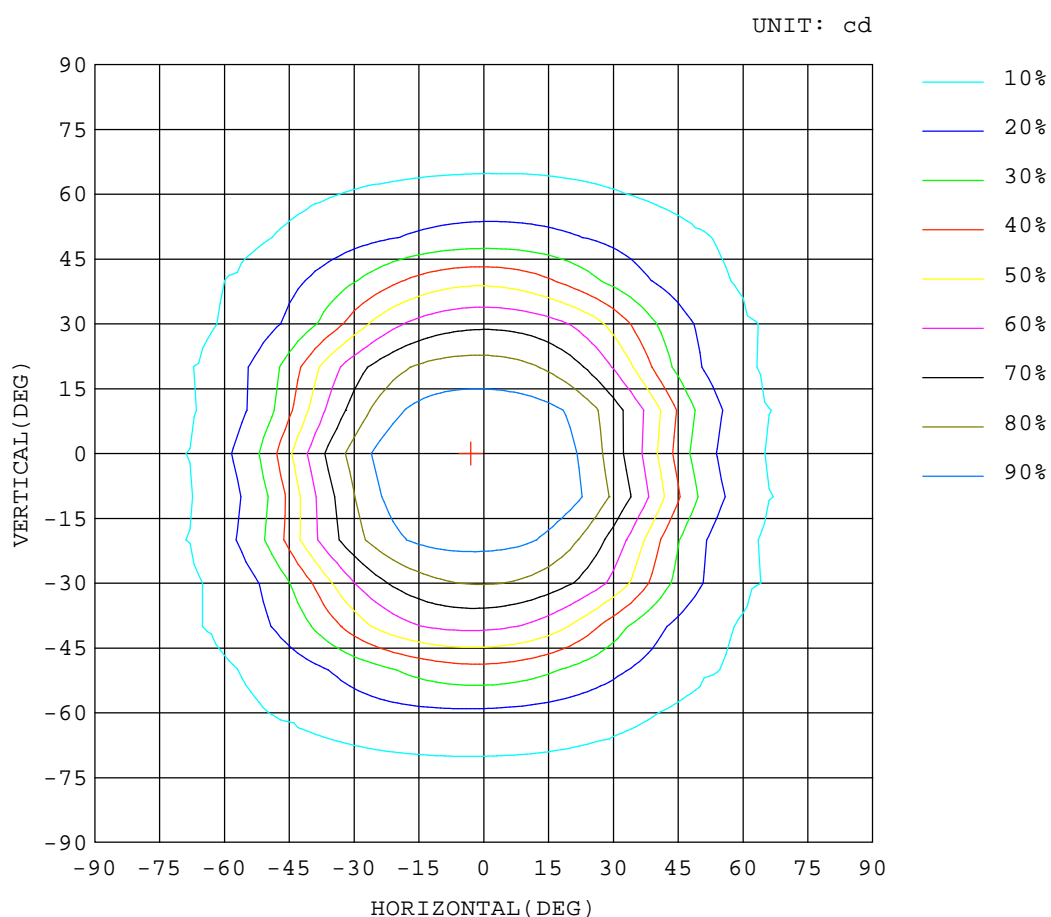
Test Set: 10.0 deg/s B-Beta (TYPE B)
 Humidity: 65.0%
 Test Distance: 10.000 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

Report number: 2018032105

| | | |
|----------------------------------|----------------------|-----------------------|
| MANUFACTURER: SGSLight Limited | Address: | |
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 Operators:Jason
 Test Date:2018-03-21

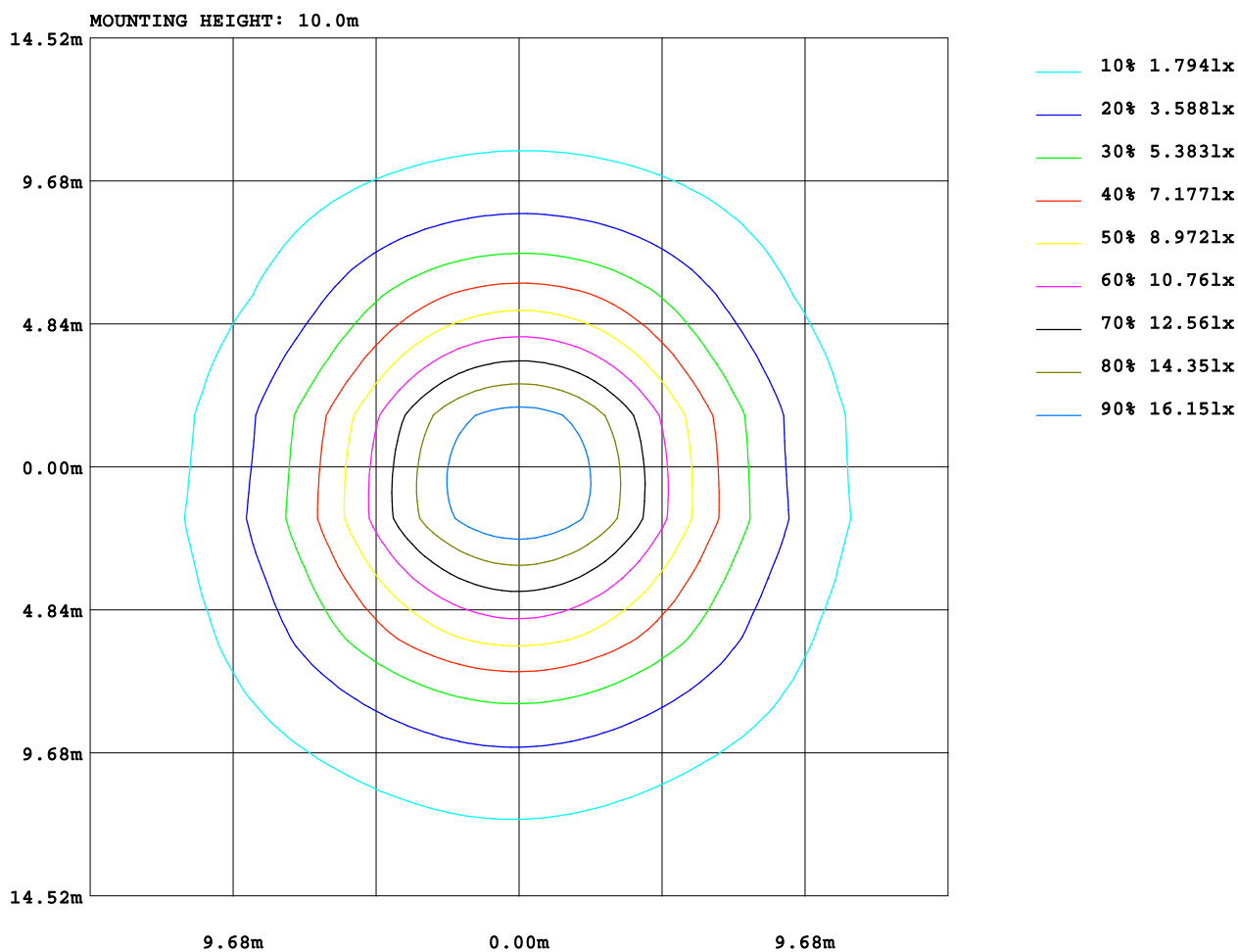
Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOLUX DIAGRAM

Report number: 2018032105

| | | |
|----------------------------------|----------------------|-----------------------|
| MANUFACTURER: SGSLight Limited | Address: | |
| NAME: TLP-6060-26-NW-130-NU-IP65 | TYPE:LED Panel Light | WEIGHT: |
| SPECIFICATION:4000K CRI>80 | DIMENSION: 596x596mm | SERIAL No.:2018032105 |



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2018-03-21

Test Set: 10.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:10.000 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

Uncorrected UGR Table

Report number: 2018032105

| | | | | | | | | | | |
|--|------------------|------|------|------|----------------------|----------------|------|-----------------------|------|------|
| MANUFACTURER: SGSLight Limited | | | | | Address: | | | | | |
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| SPECIFICATION:4000K CRI>80 | | | | | DIMENSION: 596x596mm | | | SERIAL No.:2018032105 | | |
| 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 | 14.3 | 15.6 | 14.6 | 15.8 | 16.0 | 15.3 | 16.6 | 15.6 | 16.8 | 17.0 |
| 3H | 14.9 | 16.1 | 15.2 | 16.3 | 16.5 | 16.0 | 17.2 | 16.3 | 17.5 | 17.7 |
| 4H | 15.0 | 16.2 | 15.3 | 16.4 | 16.7 | 16.4 | 17.5 | 16.7 | 17.7 | 18.0 |
| 6H | 15.1 | 16.1 | 15.4 | 16.4 | 16.7 | 16.6 | 17.6 | 16.9 | 17.9 | 18.2 |
| 8H | 15.1 | 16.1 | 15.4 | 16.4 | 16.7 | 16.7 | 17.7 | 17.0 | 18.0 | 18.3 |
| 12H | 15.0 | 16.0 | 15.4 | 16.3 | 16.6 | 16.7 | 17.7 | 17.1 | 18.0 | 18.3 |
| 4H 2H | 14.6 | 15.8 | 14.9 | 16.0 | 16.3 | 15.5 | 16.6 | 15.8 | 16.8 | 17.1 |
| 3H | 15.4 | 16.3 | 15.7 | 16.6 | 17.0 | 16.4 | 17.4 | 16.7 | 17.7 | 18.0 |
| 4H | 15.6 | 16.5 | 16.0 | 16.8 | 17.2 | 16.8 | 17.7 | 17.2 | 18.0 | 18.4 |
| 6H | 15.7 | 16.5 | 16.1 | 16.9 | 17.3 | 17.2 | 17.9 | 17.6 | 18.3 | 18.7 |
| 8H | 15.8 | 16.5 | 16.2 | 16.9 | 17.3 | 17.3 | 18.0 | 17.7 | 18.4 | 18.8 |
| 12H | 15.7 | 16.4 | 16.2 | 16.8 | 17.2 | 17.4 | 18.1 | 17.8 | 18.5 | 18.9 |
| 8H 4H | 15.8 | 16.5 | 16.2 | 16.9 | 17.3 | 16.9 | 17.6 | 17.3 | 18.0 | 18.4 |
| 6H | 16.0 | 16.6 | 16.4 | 17.0 | 17.4 | 17.3 | 17.9 | 17.8 | 18.3 | 18.8 |
| 8H | 16.1 | 16.6 | 16.5 | 17.0 | 17.5 | 17.5 | 18.0 | 18.0 | 18.5 | 18.9 |
| 12H | 16.1 | 16.5 | 16.5 | 17.0 | 17.5 | 17.7 | 18.2 | 18.2 | 18.6 | 19.1 |
| 12H 4H | 15.8 | 16.4 | 16.2 | 16.8 | 17.2 | 16.9 | 17.5 | 17.3 | 17.9 | 18.3 |
| 6H | 16.0 | 16.5 | 16.5 | 17.0 | 17.4 | 17.3 | 17.8 | 17.8 | 18.3 | 18.7 |
| 8H | 16.1 | 16.6 | 16.6 | 17.0 | 17.5 | 17.5 | 18.0 | 18.0 | 18.4 | 18.9 |
| Variations with the observer position at spacings: | | | | | | | | | | |
| S = 1.0H | + 0.8 / - 1.1 | | | | | + 0.4 / - 0.5 | | | | |
| 1.5H | + 0.6 / - 1.0 | | | | | + 0.3 / - 0.4 | | | | |
| 2.0H | + 1.3 / - 1.2 | | | | | + 1.3 / - 1.0 | | | | |

CIE Pub.117 Corrected 3487 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.3)

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 Temperature:25.3DEG
 Operators:Jason
 Test Date:2018-03-21

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 Humidity:65.0%
 Test Distance:10.000 m
 Remarks: