

HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

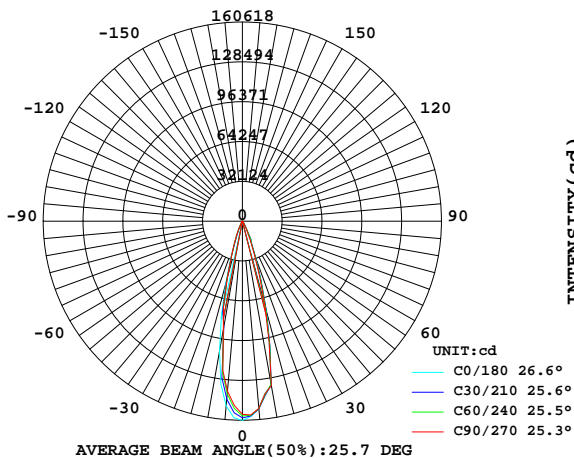
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

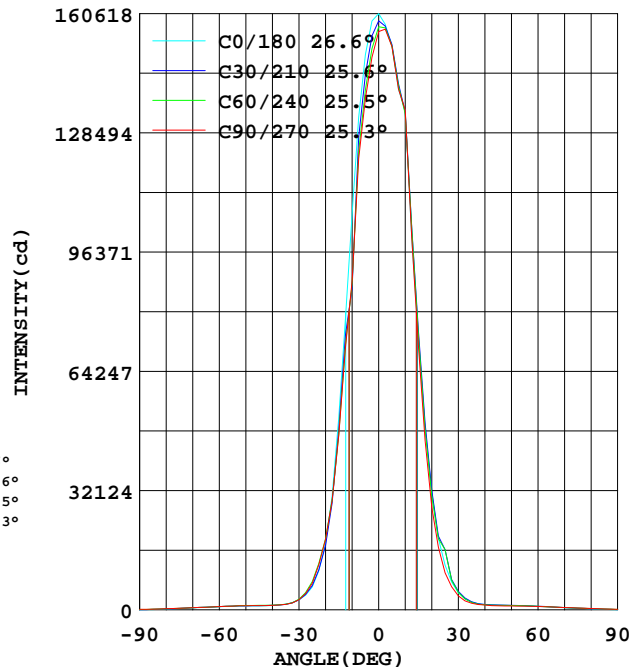
| | | |
|---------------------------------|------------|-------------|
| MANUFACTURER: | Address: | |
| NAME: LSHM-240W-LV (50K)PLUS 20 | TYPE: | WEIGHT: |
| SPECIFICATION:5000K 20 | DIMENSION: | SERIAL No.: |

| | | | | | |
|------------------|---------|--------------------|---------|------------------|-------|
| DATA OF LAMP | | Imax(cd) | 160618 | S/MH(C0/180) | 0.40 |
| MODEL | 5050 | EFFICIENCY(%) | 100.0 | S/MH(C90/270) | 0.38 |
| NOMINAL POWER(W) | 240 | TOTAL FLUX(lm) | 39158 | Voltage(V) | 219.6 |
| RATED VOLTAGE(V) | 220 | EFFICIENCY(lm/W) | 163.9 | Current(A) | 1.121 |
| NOMINAL FLUX(lm) | 39157.7 | η up(%) | 0.0 | Power(W) | 238.8 |
| LAMPS QUANTITY | 1 | η down(%) | 100.0 | Power Factor(PF) | 0.995 |
| TEST VOLTAGE(V) | 219.7 | Effective Flux(lm) | 31373.3 | EI | 0.104 |

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:01-09-2020

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:6.000 m
Remarks:

Color Temperature Data List

Report number:

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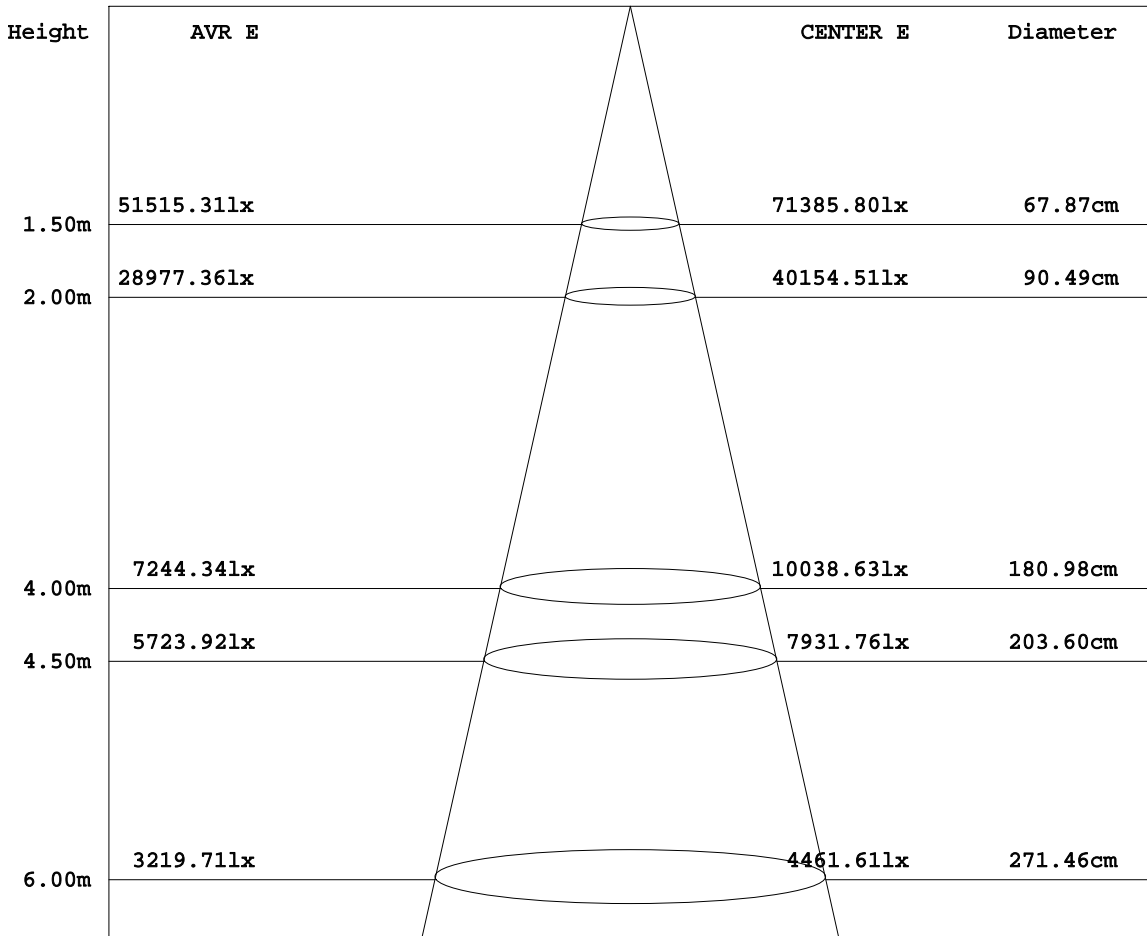
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Remarks:

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AVERAGE AND CENTER E Figure

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Angle:25.5deg

Test System:HOPOO HPG1800
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Operators:
Test Date:01-09-2020

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ZONAL FLUX DIAGRAM

Report number:

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| NAME: LSHM-240W-LV (50K)PLUS 20 | TYPE: | WEIGHT: |
| SPECIFICATION:5000K 20 | DIMENSION: | SERIAL No.: |

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | γ | one | total |
|-------|---------------------------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|
| 5.0 | 1496 | 1416 | 1377 | 1384 | 1518 | 1523 | 1517 | 1520 | 0- 5 | 3620 | 3620 |
| 10.0 | 1066 | 990.8 | 885.9 | 1014 | 1344 | 1264 | 1346 | 1207 | 5- 10 | 9291 | 12911 |
| 15.0 | 520.4 | 476.8 | 472.3 | 554.2 | 724.6 | 754.6 | 707.6 | 679.0 | 10- 15 | 9957 | 22868 |
| 20.0 | 178.9 | 181.8 | 190.3 | 247.9 | 315.5 | 324.1 | 276.4 | 279.4 | 15- 20 | 6678 | 29546 |
| 25.0 | 61.98 | 71.89 | 71.94 | 108.5 | 120.2 | 132.5 | 99.95 | 108.2 | 20- 25 | 3427 | 32973 |
| 30.0 | 26.90 | 28.60 | 27.57 | 45.00 | 45.68 | 52.57 | 37.49 | 43.37 | 25- 30 | 1607 | 34579 |
| 35.0 | 15.45 | 15.05 | 15.07 | 21.37 | 21.13 | 22.24 | 17.85 | 20.41 | 30- 35 | 775.5 | 35355 |
| 40.0 | 11.84 | 12.80 | 12.16 | 15.52 | 14.25 | 14.48 | 12.96 | 13.76 | 35- 40 | 511.4 | 35866 |
| 45.0 | 10.69 | 12.20 | 11.29 | 14.14 | 12.29 | 13.31 | 10.85 | 12.20 | 40- 45 | 466.2 | 36332 |
| 50.0 | 10.29 | 11.63 | 11.09 | 12.96 | 11.59 | 12.73 | 10.41 | 11.57 | 45- 50 | 474.9 | 36807 |
| 55.0 | 9.552 | 10.58 | 10.15 | 11.25 | 10.80 | 11.60 | 10.06 | 10.62 | 50- 55 | 479.2 | 37287 |
| 60.0 | 8.463 | 9.032 | 8.841 | 9.440 | 9.351 | 9.979 | 9.112 | 9.340 | 55- 60 | 454.9 | 37742 |
| 65.0 | 6.970 | 7.409 | 7.251 | 7.633 | 7.693 | 8.366 | 7.808 | 7.871 | 60- 65 | 405.8 | 38147 |
| 70.0 | 5.447 | 5.851 | 5.799 | 5.993 | 5.976 | 6.590 | 6.330 | 6.214 | 65- 70 | 340.5 | 38488 |
| 75.0 | 3.809 | 4.227 | 4.429 | 4.369 | 4.233 | 4.815 | 4.959 | 4.659 | 70- 75 | 268.9 | 38757 |
| 80.0 | 2.288 | 2.740 | 3.142 | 2.881 | 2.745 | 3.455 | 3.727 | 3.416 | 75- 80 | 198.2 | 38955 |
| 85.0 | 0.728 | 1.568 | 2.055 | 1.674 | 1.446 | 2.226 | 2.463 | 2.181 | 80- 85 | 131.4 | 39087 |
| 90.0 | 0.390 | 0.821 | 1.383 | 0.849 | 0.389 | 0.974 | 1.430 | 0.946 | 85- 90 | 71.13 | 39158 |
| 95.0 | | | | | | | | | 90- 95 | | |
| 100.0 | | | | | | | | | 95-100 | | |
| 105.0 | | | | | | | | | 100-105 | | |
| 110.0 | | | | | | | | | 105-110 | | |
| 115.0 | | | | | | | | | 110-115 | | |
| 120.0 | | | | | | | | | 115-120 | | |
| 125.0 | | | | | | | | | 120-125 | | |
| 130.0 | | | | | | | | | 125-130 | | |
| 135.0 | | | | | | | | | 130-135 | | |
| 140.0 | | | | | | | | | 135-140 | | |
| 145.0 | | | | | | | | | 140-145 | | |
| 150.0 | | | | | | | | | 145-150 | | |
| 155.0 | | | | | | | | | 150-155 | | |
| 160.0 | | | | | | | | | 155-160 | | |
| 165.0 | | | | | | | | | 160-165 | | |
| 170.0 | | | | | | | | | 165-170 | | |
| 175.0 | | | | | | | | | 170-175 | | |
| 180.0 | | | | | | | | | 175-180 | | |
| DEG | LUMINOUS INTENSITY:×100cd | | | | | | | | UNIT:lm | | |

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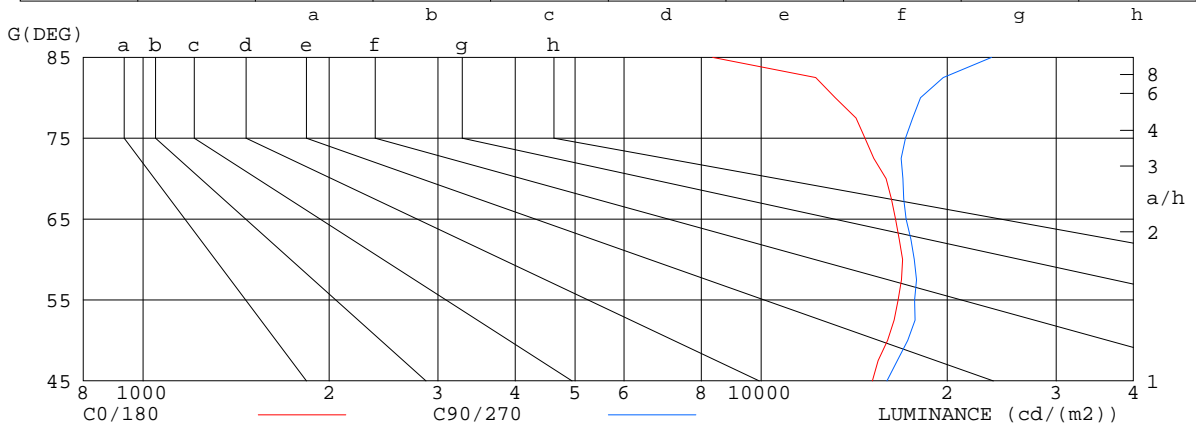
LUMINANCE LIMITATION CURVES

Report number:

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LUMINANCE LIMITATION CURVES

| GLARE | CLASS | ILLUMINANCE (lx) | | | | | | | |
|-------|-------|------------------|------|------|-------|-------|-------|-------|-------|
| 1.15 | A | 2000 | 1000 | 500 | <=300 | | | | |
| 1.50 | B | | 2000 | 1000 | 500 | <=300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <=300 | | |
| 2.20 | D | | | | 2000 | 1000 | 500 | <=300 | |
| 2.55 | E | | | | | 2000 | 1000 | 500 | <=300 |



| LUMINANCE cd/(m2) | | |
|-------------------|--------|---------|
| G(DEG) | C0/180 | C90/270 |
| 85 | 8347 | 23588 |
| 80 | 13177 | 18098 |
| 75 | 14720 | 17115 |
| 70 | 15926 | 16956 |
| 65 | 16493 | 17158 |
| 60 | 16927 | 17682 |
| 55 | 16655 | 17707 |
| 50 | 16012 | 17257 |
| 45 | 15129 | 15975 |

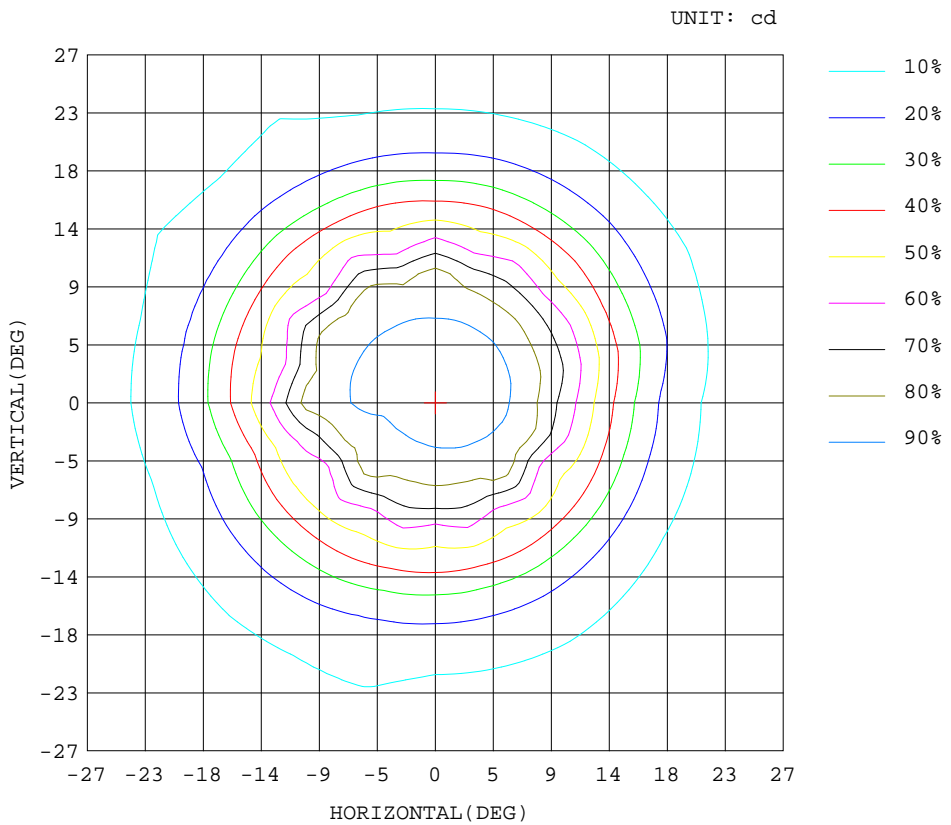
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ISOCANDELA DIAGRAM

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