



IES ROAD REPORT

PHOTOMETRIC FILENAME : SCM-LED-20L-SC-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11452

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 01/13/2020

[TEST DATE] 11/25/19

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] SCM-LED-20L-SC-30

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

| | |
|---|-----------------------------|
| IES Classification | Type VS |
| Longitudinal Classification | Very Short |
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 17968 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 122 |
| Total Luminaire Watts | 147.4 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 6117 |
| Maximum Candela Angle | 0H 7.5V |
| Maximum Candela (<90 Degrees Vertical) | 6117 |
| Maximum Candela Angle (<90 Degrees Vertical) | 0H 7.5V |
| Maximum Candela At 90 Degrees Vertical | 0 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 371 (2.1% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

| | Lumens | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30) | 2462.9 | N.A. | 13.7 |
| FM - Front-Medium (30-60) | 5005.9 | N.A. | 27.9 |
| FH - Front-High (60-80) | 1436.1 | N.A. | 8.0 |
| FVH - Front-Very High (80-90) | 79.1 | N.A. | 0.4 |
| BL - Back-Low (0-30) | 2462.9 | N.A. | 13.7 |
| BM - Back-Medium (30-60) | 5005.9 | N.A. | 27.9 |
| BH - Back-High (60-80) | 1436.1 | N.A. | 8.0 |
| BVH - Back-Very High (80-90) | 79.1 | N.A. | 0.4 |
| UL - Uplight-Low (90-100) | 0.0 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.0 | N.A. | 0.0 |
| Total | 17968.0 | N.A. | 100.0 |
| BUG Rating | B4-U0-G1 | | |

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CANDELA TABULATION

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | <u>0</u> | <u>5</u> | <u>15</u> | <u>25</u> | <u>35</u> | <u>45</u> | <u>55</u> | <u>65</u> | <u>75</u> | <u>85</u> |
| 0.0 | 6058 | 6058 | 6058 | 6058 | 6058 | 6058 | 6058 | 6058 | 6058 | 6058 |
| 2.5 | 6111 | 6100 | 6064 | 6056 | 6060 | 6042 | 6064 | 6052 | 6060 | 6074 |
| 5.0 | 6107 | 6091 | 6066 | 6065 | 6053 | 6050 | 6060 | 6056 | 6051 | 6062 |
| 7.5 | 6117 | 6096 | 6053 | 6052 | 6054 | 6037 | 6045 | 6042 | 6069 | 6064 |
| 10.0 | 6112 | 6083 | 6057 | 6035 | 6037 | 6036 | 6054 | 6044 | 6033 | 6058 |
| 12.5 | 6087 | 6046 | 6009 | 6007 | 6019 | 6003 | 6015 | 6013 | 6016 | 6038 |
| 15.0 | 6045 | 6017 | 5978 | 5971 | 5988 | 5987 | 5990 | 5988 | 5994 | 5988 |
| 17.5 | 5987 | 5975 | 5924 | 5938 | 5933 | 5923 | 5949 | 5931 | 5946 | 5937 |
| 20.0 | 5931 | 5927 | 5887 | 5888 | 5881 | 5890 | 5898 | 5893 | 5899 | 5902 |
| 22.5 | 5880 | 5852 | 5817 | 5815 | 5816 | 5804 | 5835 | 5833 | 5829 | 5852 |
| 25.0 | 5819 | 5797 | 5728 | 5744 | 5744 | 5740 | 5762 | 5751 | 5759 | 5763 |
| 27.5 | 5718 | 5684 | 5656 | 5661 | 5662 | 5658 | 5666 | 5673 | 5665 | 5675 |
| 30.0 | 5616 | 5584 | 5543 | 5546 | 5548 | 5540 | 5557 | 5561 | 5559 | 5568 |
| 32.5 | 5476 | 5443 | 5425 | 5431 | 5432 | 5428 | 5424 | 5441 | 5426 | 5442 |
| 35.0 | 5313 | 5304 | 5289 | 5276 | 5292 | 5297 | 5277 | 5280 | 5296 | 5291 |
| 37.5 | 5154 | 5145 | 5128 | 5118 | 5119 | 5111 | 5125 | 5124 | 5141 | 5135 |
| 40.0 | 4986 | 4965 | 4958 | 4940 | 4957 | 4942 | 4964 | 4949 | 4957 | 4973 |
| 42.5 | 4795 | 4775 | 4751 | 4758 | 4774 | 4752 | 4759 | 4774 | 4779 | 4777 |
| 45.0 | 4591 | 4565 | 4553 | 4562 | 4577 | 4557 | 4567 | 4565 | 4577 | 4569 |
| 47.5 | 4365 | 4361 | 4330 | 4346 | 4354 | 4341 | 4354 | 4355 | 4351 | 4360 |
| 50.0 | 4141 | 4118 | 4083 | 4099 | 4101 | 4121 | 4122 | 4116 | 4118 | 4116 |
| 52.5 | 3887 | 3842 | 3831 | 3837 | 3850 | 3854 | 3871 | 3868 | 3873 | 3865 |
| 55.0 | 3587 | 3577 | 3559 | 3574 | 3584 | 3581 | 3605 | 3609 | 3600 | 3595 |
| 57.5 | 3252 | 3256 | 3249 | 3281 | 3287 | 3288 | 3298 | 3303 | 3299 | 3293 |
| 60.0 | 2865 | 2879 | 2890 | 2934 | 2947 | 2969 | 2962 | 2970 | 2959 | 2934 |
| 62.5 | 2414 | 2419 | 2468 | 2520 | 2569 | 2577 | 2589 | 2574 | 2542 | 2509 |
| 65.0 | 1949 | 1946 | 2002 | 2070 | 2140 | 2151 | 2160 | 2118 | 2064 | 2034 |
| 67.5 | 1560 | 1555 | 1580 | 1640 | 1697 | 1737 | 1721 | 1666 | 1631 | 1604 |
| 70.0 | 1238 | 1243 | 1245 | 1262 | 1286 | 1337 | 1317 | 1296 | 1283 | 1277 |
| 72.5 | 980 | 975 | 970 | 970 | 966 | 967 | 993 | 1004 | 1001 | 989 |
| 75.0 | 752 | 740 | 739 | 736 | 716 | 681 | 734 | 754 | 756 | 751 |
| 77.5 | 529 | 538 | 542 | 537 | 507 | 494 | 506 | 543 | 547 | 543 |
| 80.0 | 358 | 365 | 371 | 365 | 350 | 350 | 342 | 359 | 371 | 364 |
| 82.5 | 222 | 224 | 229 | 220 | 226 | 227 | 218 | 209 | 221 | 222 |
| 85.0 | 127 | 127 | 126 | 126 | 129 | 120 | 124 | 123 | 122 | 122 |
| 87.5 | 58 | 58 | 56 | 55 | 56 | 57 | 57 | 56 | 56 | 56 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

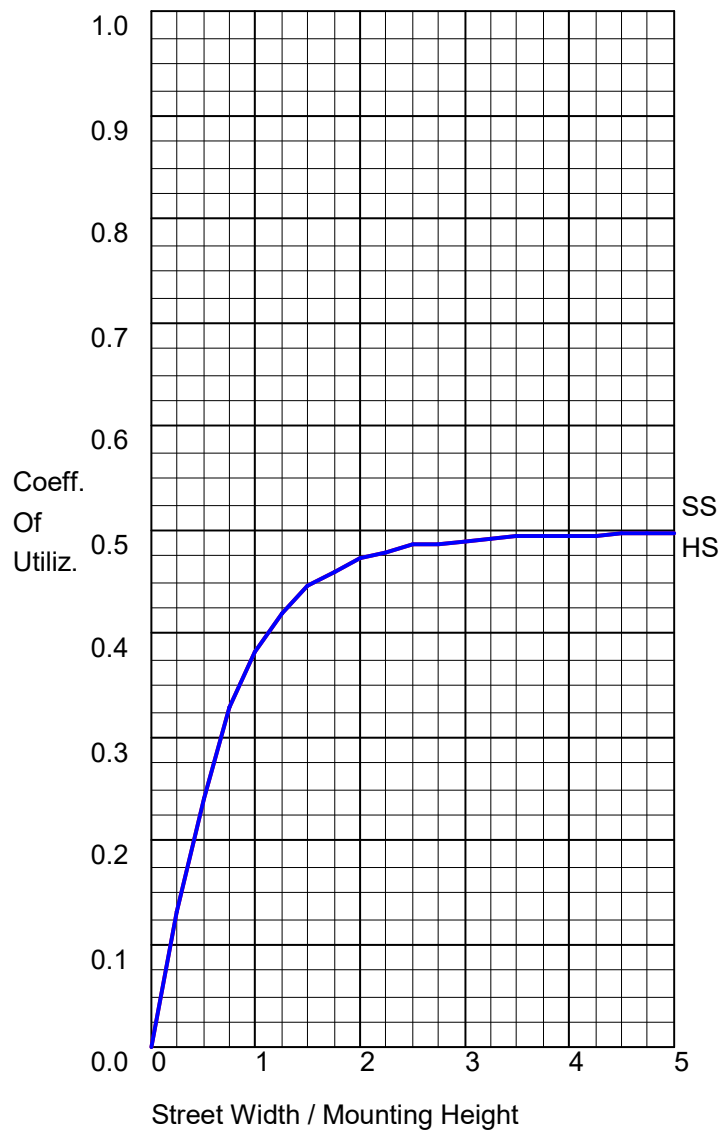
| Vert. Angles | Horizontal Angles |
|-------------------------|--------------------------|
| | <u>90</u> |
| 0.0 | 6058 |
| 2.5 | 6094 |
| 5.0 | 6074 |
| 7.5 | 6076 |
| 10.0 | 6066 |
| 12.5 | 6023 |
| 15.0 | 5997 |
| 17.5 | 5966 |
| 20.0 | 5903 |
| 22.5 | 5852 |
| 25.0 | 5777 |
| 27.5 | 5682 |

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CANDELA TABULATION - (Cont.)

| | |
|-------------|------|
| 30.0 | 5562 |
| 32.5 | 5431 |
| 35.0 | 5294 |
| 37.5 | 5148 |
| 40.0 | 4959 |
| 42.5 | 4770 |
| 45.0 | 4560 |
| 47.5 | 4331 |
| 50.0 | 4103 |
| 52.5 | 3858 |
| 55.0 | 3588 |
| 57.5 | 3283 |
| 60.0 | 2948 |
| 62.5 | 2513 |
| 65.0 | 2052 |
| 67.5 | 1605 |
| 70.0 | 1263 |
| 72.5 | 984 |
| 75.0 | 749 |
| 77.5 | 542 |
| 80.0 | 364 |
| 82.5 | 221 |
| 85.0 | 122 |
| 87.5 | 53 |
| 90.0 | 0 |

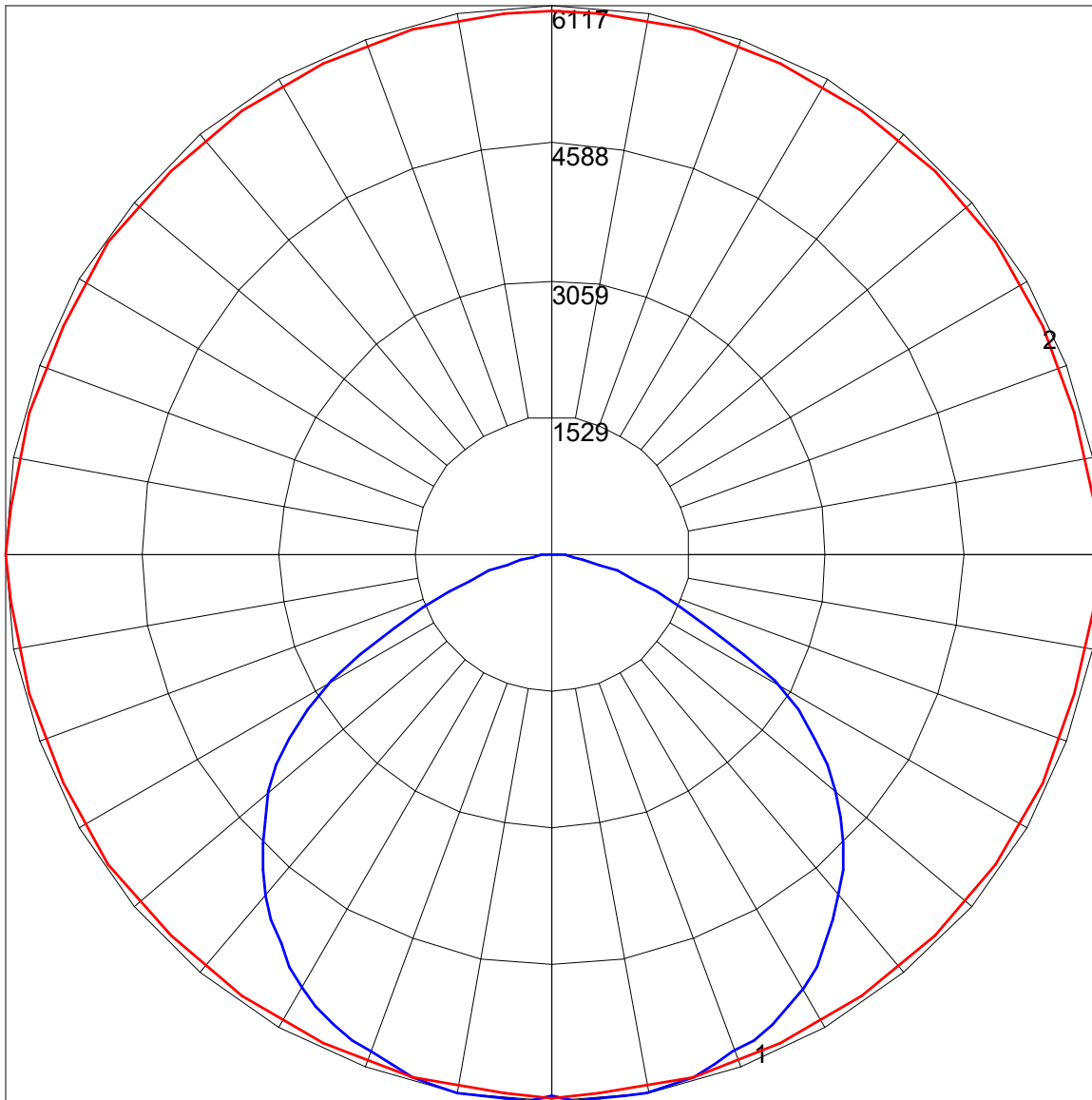
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

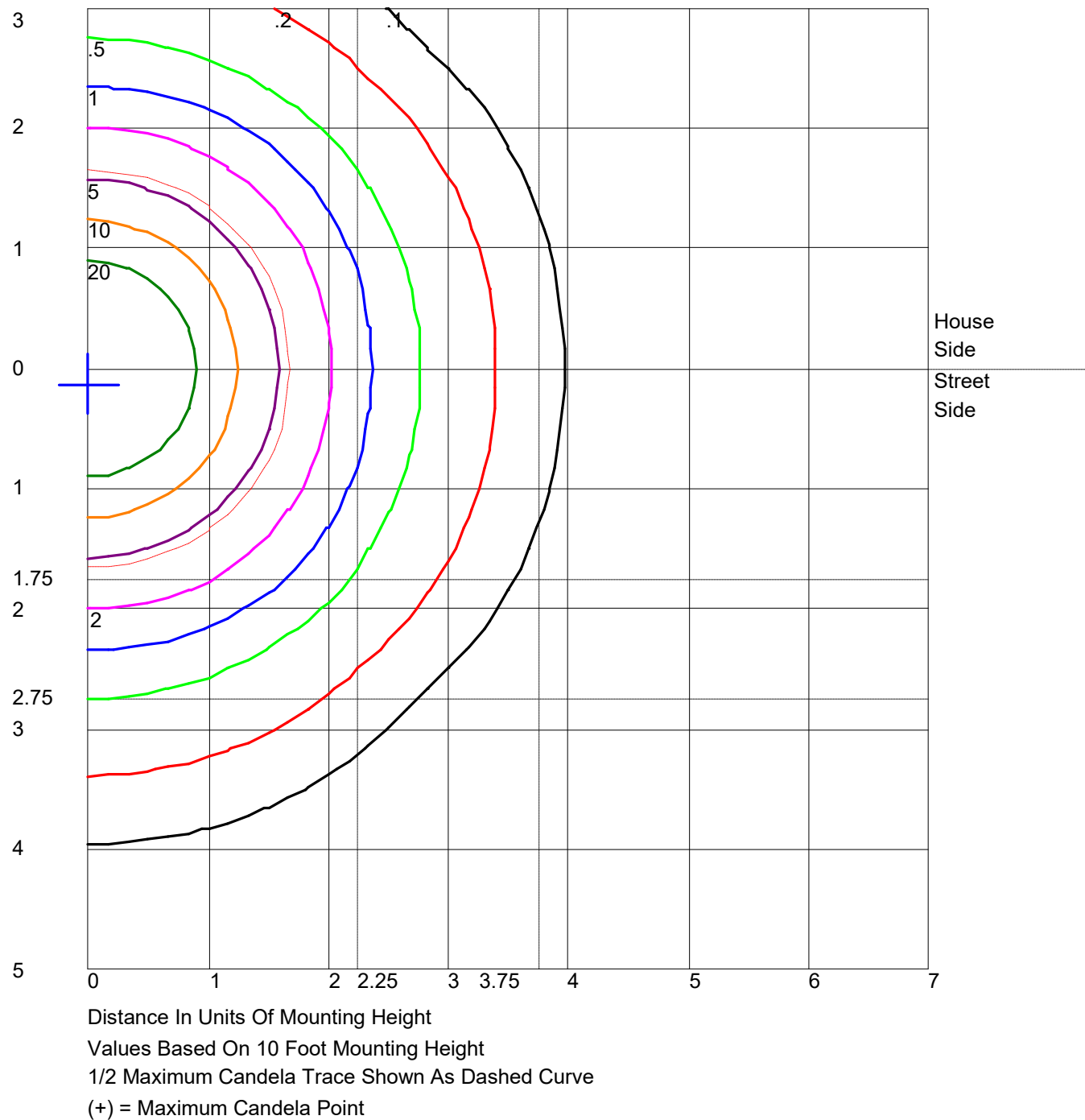
| | Lumens | Percent Of Luminaire |
|----------------------|---------|-------------------------|
| Downward Street Side | 8984.0 | 50.0 |
| Downward House Side | 8984.0 | 50.0 |
| Downward Total | 17968.0 | 100.0 |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| Total Flux | 17968.0 | 100.0 |

POLAR GRAPH

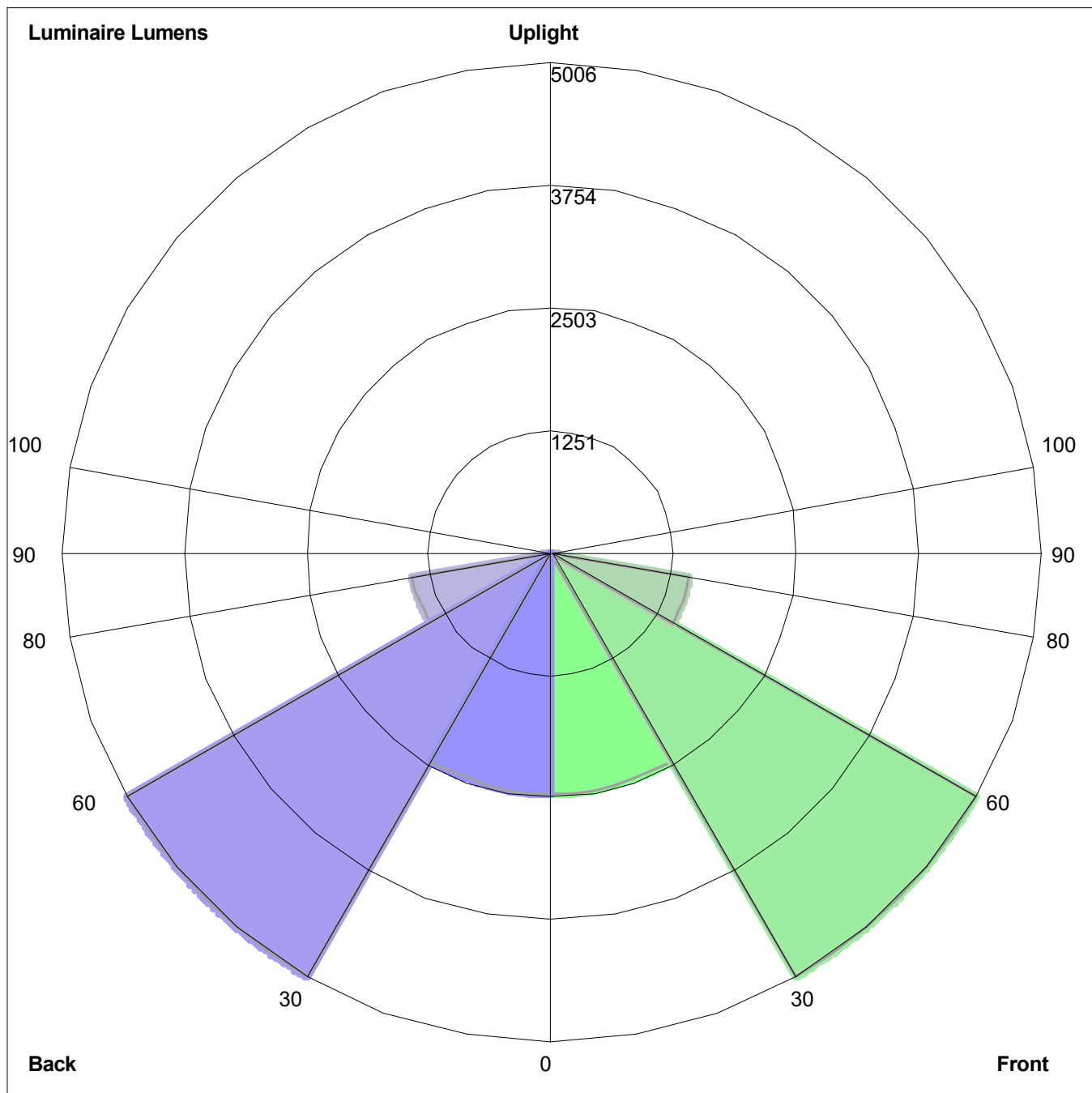


Maximum Candela = 6117 Located At Horizontal Angle = 0, Vertical Angle = 7.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2462.9, Medium=5005.9, High=1436.1, Very High=79.1
Back: Low=2462.9, Medium=5005.9, High=1436.1, Very High=79.1
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G1