**IES ROAD REPORT**
**PHOTOMETRIC FILENAME : CRUS_SM-SC-HO-50.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] LED-12151
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 08/27/20
[TESTDATE] 08/18/20
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CRUS_SM-SC-HO-50
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[_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 | 19071 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 153 |
| Total Luminaire Watts | 125 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 6160 |
| Maximum Candela Angle | 55H 5V |
| Maximum Candela (<90 Degrees Vertical) | 6160 |
| Maximum Candela Angle (<90 Degrees Vertical) | 55H 5V |
| Maximum Candela At 90 Degrees Vertical | 0 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 529 (2.8% Luminaire Lumens) |
| Cutoff Classification (deprecated) | N.A. (absolute) |

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

| | Lumens | % Lamp | % Luminaire |
|---|---|---|---|
| FL - Front-Low (0-30) | 2503.9 | N.A. | 13.1 |
| FM - Front-Medium (30-60) | 5153.0 | N.A. | 27.0 |
| FH - Front-High (60-80) | 1774.1 | N.A. | 9.3 |
| FVH - Front-Very High (80-90) | 104.6 | N.A. | 0.5 |
| BL - Back-Low (0-30) | 2503.9 | N.A. | 13.1 |
| BM - Back-Medium (30-60) | 5153.0 | N.A. | 27.0 |
| BH - Back-High (60-80) | 1774.1 | N.A. | 9.3 |
| BVH - Back-Very High (80-90) | 104.6 | N.A. | 0.5 |
| UL - Uplight-Low (90-100) | 0.0 | N.A. | 0.0 |
| UH - Uplight-High (100-180) | 0.0 | N.A. | 0.0 |
| Total | 19071.2 | N.A. | 100.0 |
| BUG Rating | B4-U0-G2 | | |

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**CANDELA TABULATION**

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 5 | 15 | 25 | 35 | 45 | 55 | 65 | 75 | 85 |
| 0.0 | 6137 | 6137 | 6137 | 6137 | 6137 | 6137 | 6137 | 6137 | 6137 | 6137 |
| 2.5 | 6134 | 6136 | 6153 | 6123 | 6140 | 6131 | 6146 | 6143 | 6159 | 6157 |
| 5.0 | 6145 | 6141 | 6134 | 6146 | 6156 | 6155 | 6160 | 6157 | 6144 | 6151 |
| 7.5 | 6141 | 6139 | 6134 | 6144 | 6134 | 6147 | 6146 | 6156 | 6138 | 6158 |
| 10.0 | 6135 | 6118 | 6116 | 6125 | 6130 | 6119 | 6117 | 6133 | 6139 | 6134 |
| 12.5 | 6105 | 6090 | 6107 | 6098 | 6118 | 6114 | 6109 | 6096 | 6121 | 6108 |
| 15.0 | 6058 | 6078 | 6071 | 6060 | 6079 | 6082 | 6083 | 6084 | 6070 | 6088 |
| 17.5 | 6048 | 6035 | 6044 | 6029 | 6038 | 6044 | 6036 | 6047 | 6031 | 6046 |
| 20.0 | 5986 | 5987 | 5992 | 5974 | 5987 | 5982 | 5997 | 5986 | 5997 | 5988 |
| 22.5 | 5948 | 5918 | 5921 | 5918 | 5923 | 5949 | 5934 | 5927 | 5935 | 5925 |
| 25.0 | 5862 | 5845 | 5857 | 5868 | 5861 | 5867 | 5855 | 5861 | 5856 | 5875 |
| 27.5 | 5762 | 5760 | 5771 | 5770 | 5774 | 5766 | 5785 | 5785 | 5772 | 5795 |
| 30.0 | 5681 | 5666 | 5668 | 5667 | 5686 | 5689 | 5669 | 5693 | 5672 | 5676 |
| 32.5 | 5559 | 5552 | 5552 | 5545 | 5546 | 5555 | 5563 | 5572 | 5556 | 5555 |
| 35.0 | 5403 | 5399 | 5410 | 5422 | 5426 | 5427 | 5427 | 5428 | 5418 | 5411 |
| 37.5 | 5240 | 5260 | 5253 | 5249 | 5274 | 5255 | 5266 | 5261 | 5262 | 5256 |
| 40.0 | 5085 | 5090 | 5092 | 5086 | 5095 | 5102 | 5086 | 5084 | 5086 | 5096 |
| 42.5 | 4893 | 4902 | 4909 | 4914 | 4915 | 4899 | 4892 | 4912 | 4903 | 4914 |
| 45.0 | 4680 | 4700 | 4696 | 4715 | 4704 | 4704 | 4693 | 4689 | 4702 | 4695 |
| 47.5 | 4472 | 4477 | 4484 | 4479 | 4479 | 4460 | 4472 | 4465 | 4475 | 4467 |
| 50.0 | 4251 | 4251 | 4260 | 4235 | 4237 | 4243 | 4238 | 4240 | 4223 | 4234 |
| 52.5 | 4002 | 3994 | 4011 | 3984 | 3992 | 3986 | 3994 | 3980 | 3954 | 3946 |
| 55.0 | 3723 | 3718 | 3733 | 3725 | 3716 | 3727 | 3723 | 3705 | 3649 | 3608 |
| 57.5 | 3426 | 3415 | 3437 | 3448 | 3442 | 3437 | 3438 | 3386 | 3325 | 3297 |
| 60.0 | 3094 | 3093 | 3132 | 3141 | 3135 | 3152 | 3091 | 3025 | 3027 | 3012 |
| 62.5 | 2742 | 2738 | 2779 | 2822 | 2832 | 2808 | 2731 | 2723 | 2716 | 2712 |
| 65.0 | 2414 | 2413 | 2423 | 2457 | 2476 | 2433 | 2400 | 2406 | 2408 | 2392 |
| 67.5 | 2082 | 2091 | 2083 | 2080 | 2097 | 2079 | 2074 | 2080 | 2076 | 2069 |
| 70.0 | 1742 | 1753 | 1749 | 1739 | 1725 | 1726 | 1740 | 1752 | 1753 | 1735 |
| 72.5 | 1409 | 1421 | 1416 | 1406 | 1378 | 1382 | 1402 | 1428 | 1420 | 1410 |
| 75.0 | 1059 | 1080 | 1082 | 1076 | 1048 | 1071 | 1081 | 1108 | 1077 | 1085 |
| 77.5 | 746 | 780 | 770 | 757 | 753 | 787 | 778 | 772 | 781 | 781 |
| 80.0 | 475 | 510 | 518 | 498 | 513 | 523 | 512 | 509 | 526 | 529 |
| 82.5 | 271 | 293 | 290 | 298 | 300 | 301 | 303 | 305 | 305 | 315 |
| 85.0 | 130 | 136 | 133 | 146 | 145 | 147 | 155 | 155 | 154 | 161 |
| 87.5 | 53 | 53 | 55 | 58 | 62 | 66 | 70 | 71 | 73 | 74 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Vert. Angles | Horizontal Angles |
|---|---|
| | 90 |
| 0.0 | 6137 |
| 2.5 | 6120 |
| 5.0 | 6112 |
| 7.5 | 6128 |
| 10.0 | 6099 |
| 12.5 | 6080 |
| 15.0 | 6065 |
| 17.5 | 6029 |
| 20.0 | 5991 |
| 22.5 | 5941 |
| 25.0 | 5860 |
| 27.5 | 5771 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **30.0** | 5682 |
| **32.5** | 5556 |
| **35.0** | 5394 |
| **37.5** | 5243 |
| **40.0** | 5097 |
| **42.5** | 4917 |
| **45.0** | 4692 |
| **47.5** | 4456 |
| **50.0** | 4219 |
| **52.5** | 3944 |
| **55.0** | 3607 |
| **57.5** | 3290 |
| **60.0** | 2999 |
| **62.5** | 2699 |
| **65.0** | 2390 |
| **67.5** | 2058 |
| **70.0** | 1723 |
| **72.5** | 1400 |
| **75.0** | 1072 |
| **77.5** | 760 |
| **80.0** | 508 |
| **82.5** | 304 |
| **85.0** | 152 |
| **87.5** | 71 |
| **90.0** | 0 |

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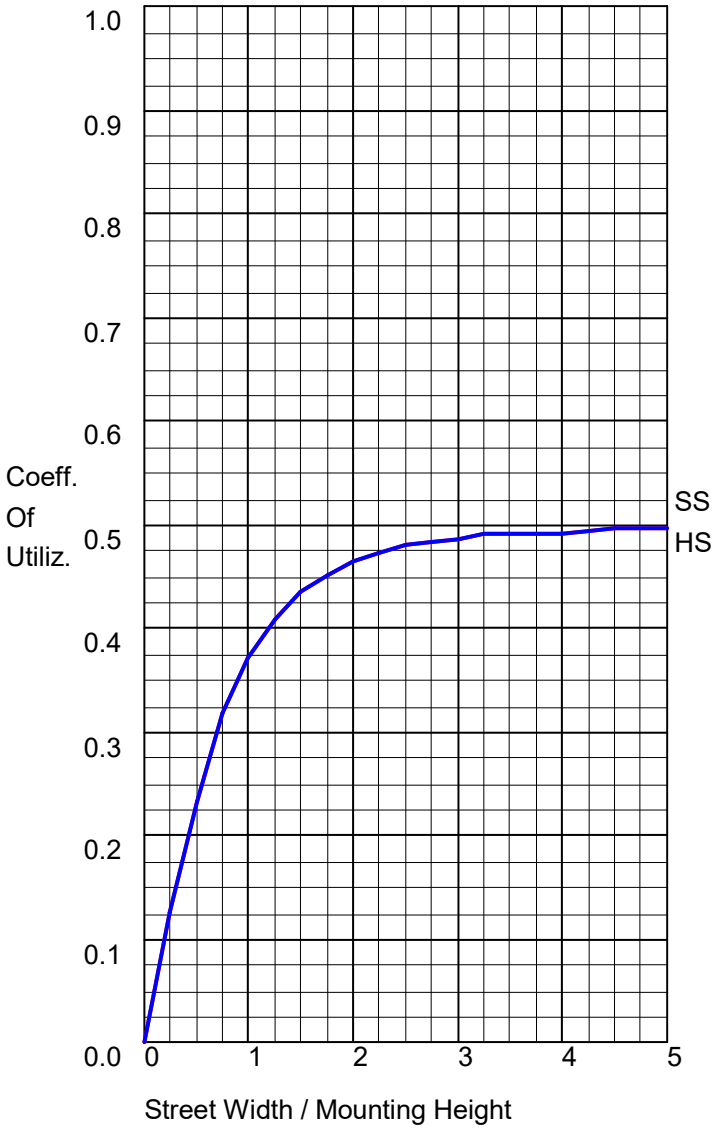
**COEFFICIENTS OF UTILIZATION**




**FLUX DISTRIBUTION**

| | Lumens | Percent Of Luminaire |
|---|---|---|
| Downward Street Side | 9535.6 | 50.0 |
| Downward House Side | 9535.6 | 50.0 |
| Downward Total | 19071.0 | 100.0 |
| | | |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| | | |
| Total Flux | 19071.0 | 100.0 |

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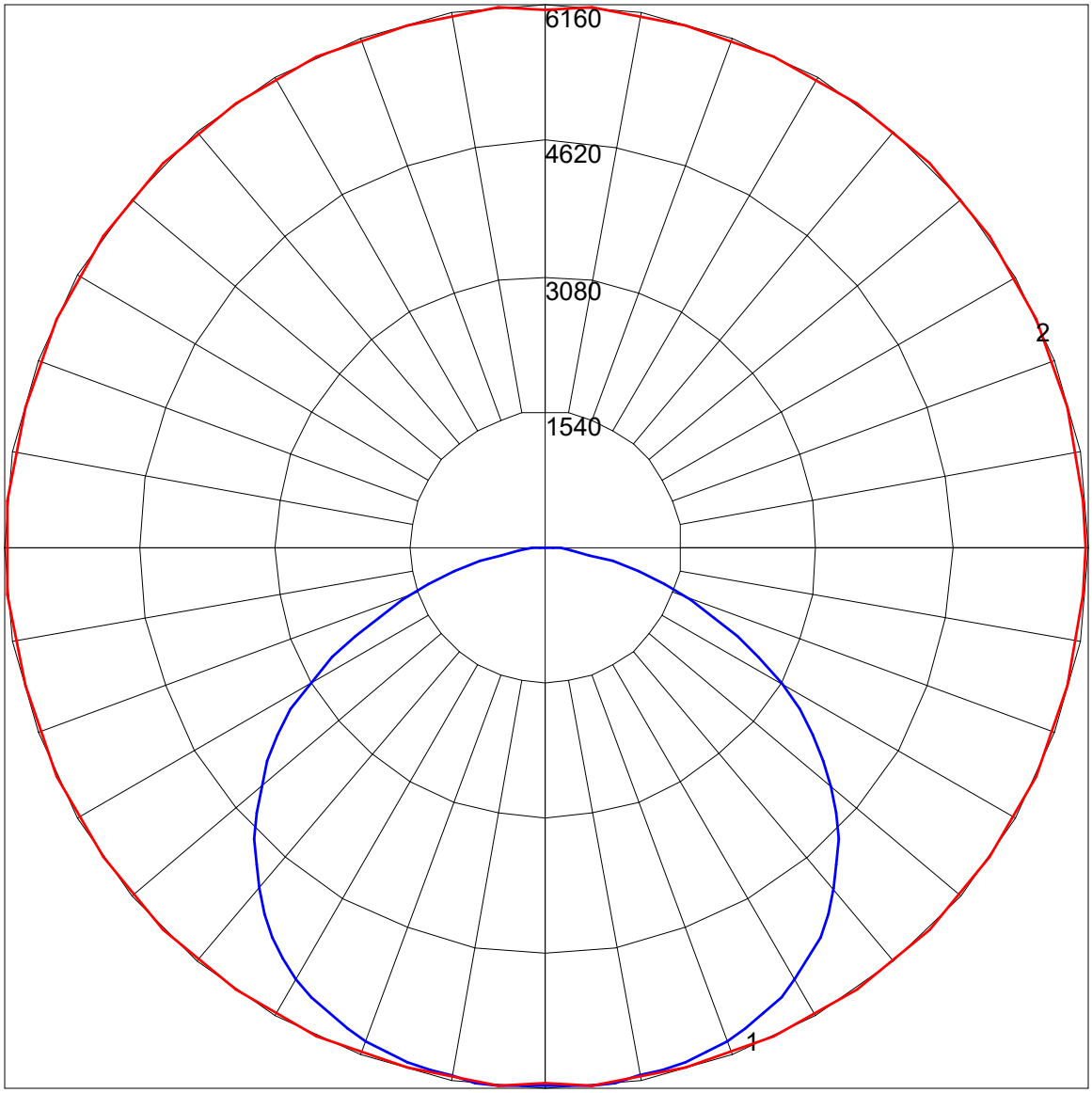
**POLAR GRAPH**




Maximum Candela = 6160  Located At Horizontal Angle = 55, Vertical Angle = 5
# 1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

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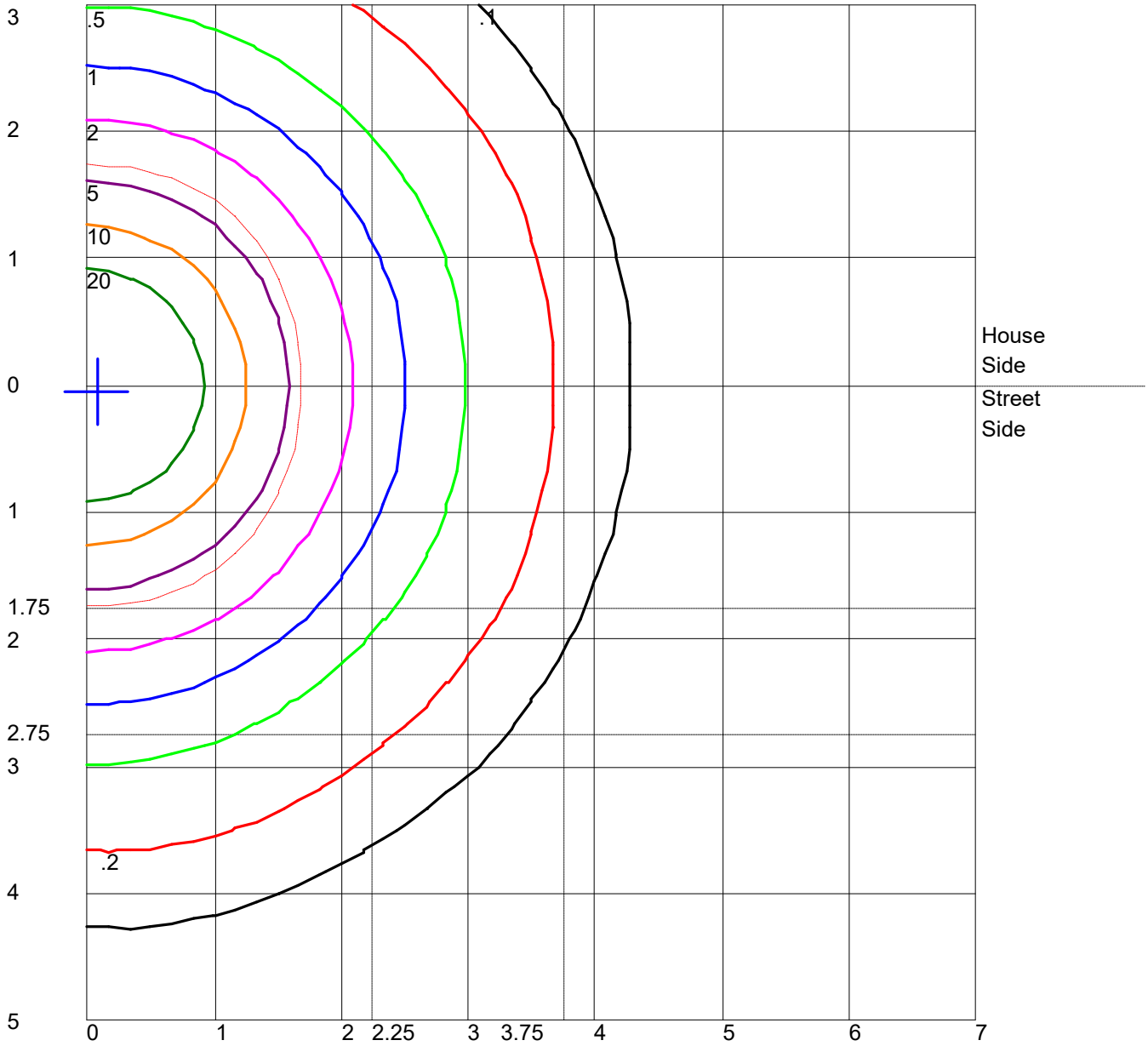
**ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE**




Distance In Units Of Mounting Height
Values Based On 10 Foot Mounting Height
1/2 Maximum Candela Trace Shown As Dashed Curve
(+) = Maximum Candela Point

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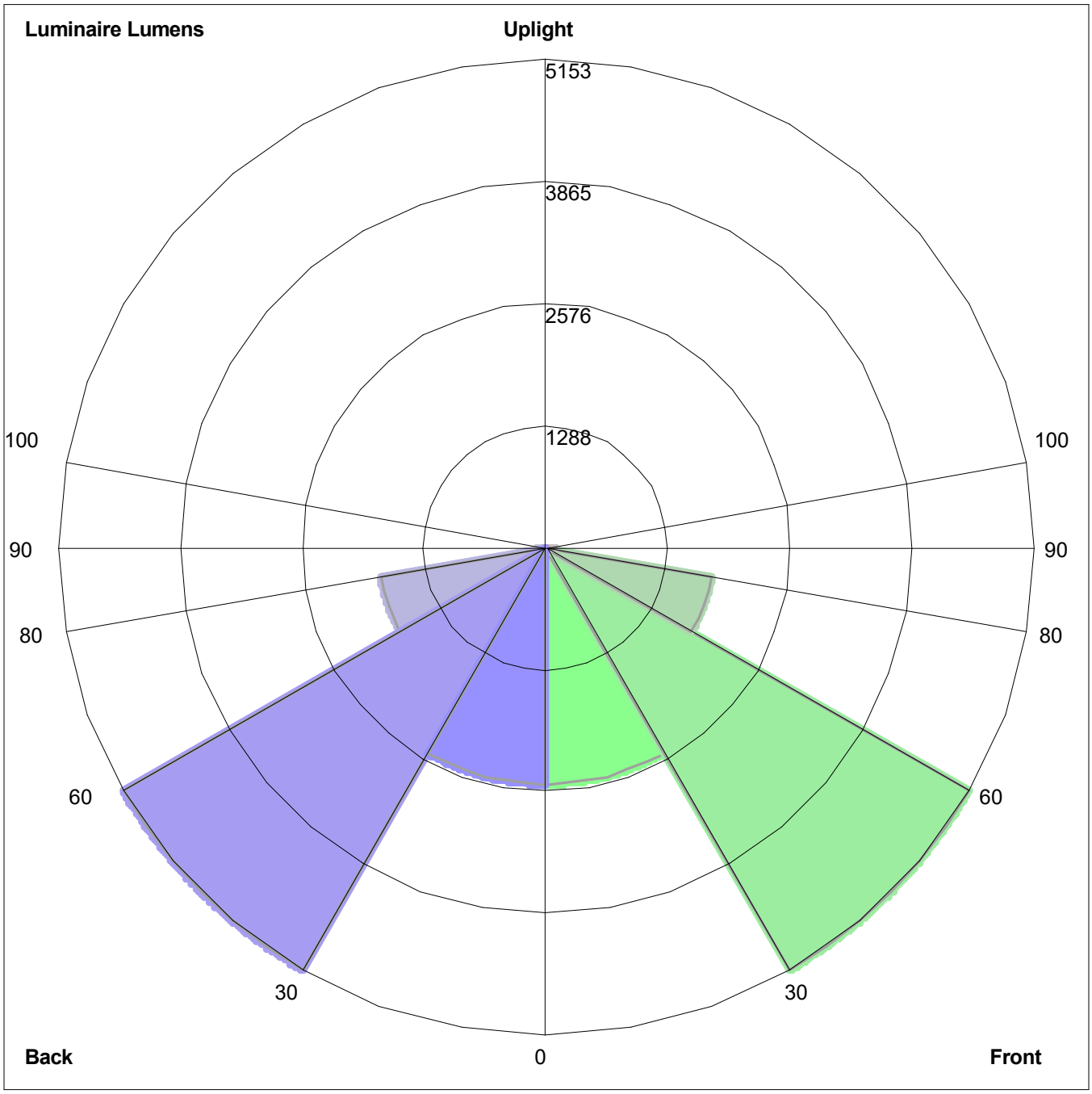
**LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH**




Luminaire Lumens:
Front: Low=2503.9, Medium= 5153.0, High=1774.1, Very High=104.6
Back: Low=2503.9, Medium= 5153.0, High=1774.1, Very High=104.6
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2

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