**IES ROAD REPORT**
**PHOTOMETRIC FILENAME : CRUS-SC-VHO-30.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] LED-12150
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUEDATE] 08/27/20
[TESTDATE] 08/17/20
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] CRUS-SC-VHO-30
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] SCALED FROM ORIGINAL TEST DATA
[_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 | 21289 |
| Downward Total Efficiency | N.A. (absolute) |
| Total Luminaire Efficiency | N.A. (absolute) |
| Luminaire Efficacy Rating (LER) | 140 |
| Total Luminaire Watts | 152 |
| Ballast Factor | 1.00 |
| Upward Waste Light Ratio | 0.00 |
| Maximum Candela | 6894 |
| Maximum Candela Angle | 55H 2.5V |
| Maximum Candela (<90 Degrees Vertical) | 6894 |
| Maximum Candela Angle (<90 Degrees Vertical) | 55H 2.5V |
| Maximum Candela At 90 Degrees Vertical | 0 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 587 (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) | 2799.0 | N.A. | 13.1 |
| FM - Front-Medium (30-60) | 5756.3 | N.A. | 27.0 |
| FH - Front-High (60-80) | 1974.7 | N.A. | 9.3 |
| FVH - Front-Very High (80-90) | 114.6 | N.A. | 0.5 |
| BL - Back-Low (0-30) | 2799.0 | N.A. | 13.1 |
| BM - Back-Medium (30-60) | 5756.3 | N.A. | 27.0 |
| BH - Back-High (60-80) | 1974.7 | N.A. | 9.3 |
| BVH - Back-Very High (80-90) | 114.6 | 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 | 21289.2 | 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 | 6855 | 6855 | 6855 | 6855 | 6855 | 6855 | 6855 | 6855 | 6855 | 6855 |
| 2.5 | 6852 | 6877 | 6862 | 6861 | 6863 | 6875 | 6894 | 6860 | 6875 | 6866 |
| 5.0 | 6875 | 6853 | 6865 | 6875 | 6878 | 6861 | 6885 | 6871 | 6877 | 6888 |
| 7.5 | 6860 | 6856 | 6860 | 6859 | 6858 | 6878 | 6867 | 6859 | 6874 | 6866 |
| 10.0 | 6816 | 6840 | 6847 | 6842 | 6831 | 6849 | 6832 | 6861 | 6854 | 6856 |
| 12.5 | 6814 | 6830 | 6819 | 6836 | 6815 | 6832 | 6841 | 6838 | 6825 | 6824 |
| 15.0 | 6759 | 6786 | 6778 | 6771 | 6780 | 6775 | 6795 | 6789 | 6792 | 6812 |
| 17.5 | 6728 | 6727 | 6752 | 6751 | 6740 | 6741 | 6748 | 6768 | 6742 | 6757 |
| 20.0 | 6710 | 6699 | 6682 | 6688 | 6683 | 6701 | 6708 | 6706 | 6696 | 6681 |
| 22.5 | 6628 | 6631 | 6633 | 6632 | 6623 | 6639 | 6631 | 6634 | 6647 | 6619 |
| 25.0 | 6536 | 6544 | 6545 | 6530 | 6548 | 6557 | 6571 | 6550 | 6549 | 6563 |
| 27.5 | 6470 | 6439 | 6446 | 6468 | 6461 | 6465 | 6463 | 6453 | 6468 | 6467 |
| 30.0 | 6356 | 6321 | 6347 | 6336 | 6332 | 6363 | 6347 | 6360 | 6364 | 6348 |
| 32.5 | 6194 | 6217 | 6199 | 6195 | 6219 | 6224 | 6224 | 6188 | 6207 | 6220 |
| 35.0 | 6022 | 6058 | 6041 | 6054 | 6073 | 6055 | 6055 | 6040 | 6049 | 6054 |
| 37.5 | 5864 | 5881 | 5876 | 5877 | 5877 | 5875 | 5877 | 5877 | 5866 | 5877 |
| 40.0 | 5685 | 5671 | 5692 | 5698 | 5691 | 5693 | 5688 | 5681 | 5668 | 5692 |
| 42.5 | 5474 | 5463 | 5476 | 5486 | 5490 | 5485 | 5489 | 5484 | 5477 | 5474 |
| 45.0 | 5237 | 5254 | 5269 | 5255 | 5253 | 5231 | 5236 | 5241 | 5252 | 5247 |
| 47.5 | 5015 | 5004 | 5002 | 5007 | 5008 | 4992 | 5000 | 5001 | 5001 | 4985 |
| 50.0 | 4767 | 4749 | 4747 | 4730 | 4743 | 4750 | 4733 | 4732 | 4720 | 4716 |
| 52.5 | 4469 | 4469 | 4473 | 4456 | 4454 | 4461 | 4467 | 4460 | 4425 | 4410 |
| 55.0 | 4144 | 4149 | 4151 | 4160 | 4141 | 4166 | 4162 | 4144 | 4062 | 4032 |
| 57.5 | 3814 | 3824 | 3849 | 3835 | 3850 | 3844 | 3840 | 3769 | 3709 | 3675 |
| 60.0 | 3452 | 3467 | 3500 | 3501 | 3502 | 3501 | 3449 | 3378 | 3372 | 3354 |
| 62.5 | 3068 | 3061 | 3093 | 3150 | 3141 | 3132 | 3044 | 3026 | 3031 | 3027 |
| 65.0 | 2692 | 2680 | 2703 | 2731 | 2769 | 2706 | 2670 | 2685 | 2681 | 2669 |
| 67.5 | 2317 | 2334 | 2325 | 2314 | 2345 | 2313 | 2301 | 2319 | 2317 | 2309 |
| 70.0 | 1939 | 1952 | 1949 | 1938 | 1914 | 1918 | 1933 | 1953 | 1954 | 1936 |
| 72.5 | 1563 | 1579 | 1570 | 1566 | 1530 | 1546 | 1560 | 1590 | 1571 | 1569 |
| 75.0 | 1177 | 1188 | 1198 | 1198 | 1162 | 1194 | 1208 | 1230 | 1196 | 1190 |
| 77.5 | 854 | 864 | 859 | 842 | 833 | 869 | 861 | 848 | 869 | 866 |
| 80.0 | 518 | 568 | 574 | 550 | 568 | 565 | 562 | 560 | 587 | 583 |
| 82.5 | 294 | 327 | 325 | 329 | 329 | 334 | 329 | 329 | 330 | 349 |
| 85.0 | 140 | 150 | 149 | 159 | 161 | 158 | 167 | 164 | 168 | 176 |
| 87.5 | 57 | 58 | 60 | 64 | 67 | 70 | 73 | 75 | 78 | 80 |
| 90.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Vert. Angles | Horizontal Angles |
|---|---|
| | 90 |
| 0.0 | 6855 |
| 2.5 | 6839 |
| 5.0 | 6881 |
| 7.5 | 6859 |
| 10.0 | 6831 |
| 12.5 | 6796 |
| 15.0 | 6802 |
| 17.5 | 6737 |
| 20.0 | 6696 |
| 22.5 | 6603 |
| 25.0 | 6527 |
| 27.5 | 6460 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **30.0** | 6325 |
| **32.5** | 6197 |
| **35.0** | 6021 |
| **37.5** | 5880 |
| **40.0** | 5680 |
| **42.5** | 5485 |
| **45.0** | 5232 |
| **47.5** | 4980 |
| **50.0** | 4737 |
| **52.5** | 4387 |
| **55.0** | 4027 |
| **57.5** | 3653 |
| **60.0** | 3350 |
| **62.5** | 2999 |
| **65.0** | 2659 |
| **67.5** | 2308 |
| **70.0** | 1924 |
| **72.5** | 1559 |
| **75.0** | 1173 |
| **77.5** | 834 |
| **80.0** | 562 |
| **82.5** | 329 |
| **85.0** | 168 |
| **87.5** | 79 |
| **90.0** | 0 |

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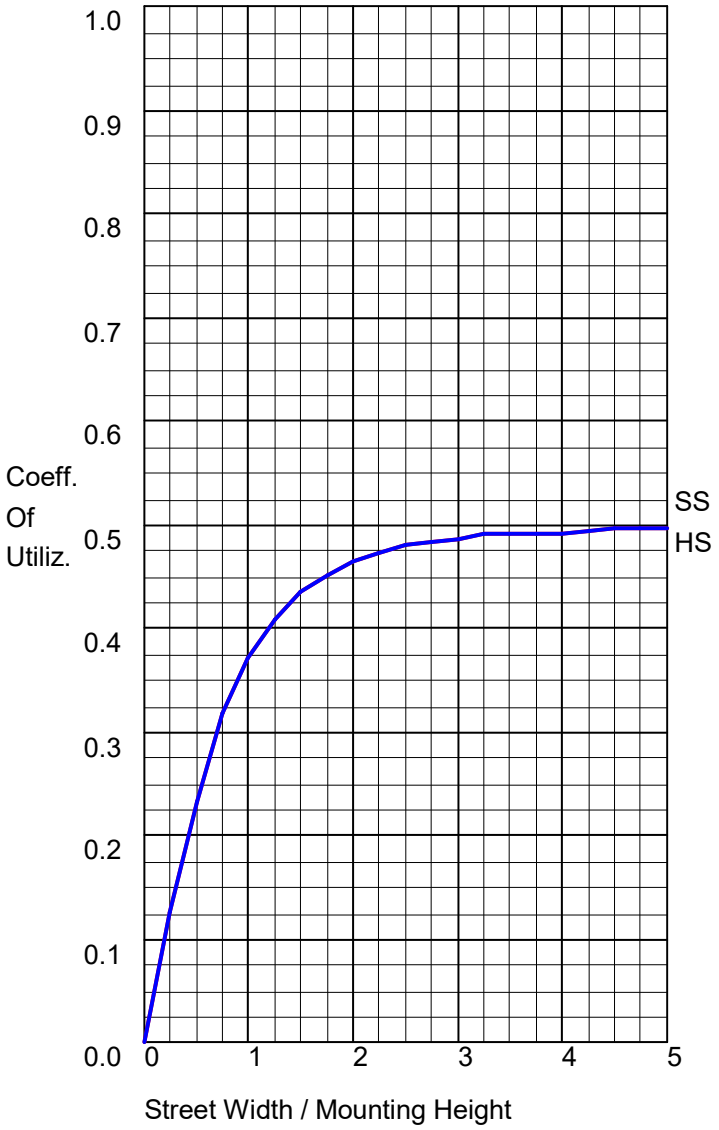
**COEFFICIENTS OF UTILIZATION**




**FLUX DISTRIBUTION**

| | Lumens | Percent Of Luminaire |
|---|---|---|
| Downward Street Side | 10644.6 | 50.0 |
| Downward House Side | 10644.6 | 50.0 |
| Downward Total | 21289.2 | 100.0 |
| Upward Street Side | 0.0 | 0.0 |
| Upward House Side | 0.0 | 0.0 |
| Upward Total | 0.0 | 0.0 |
| Total Flux | 21289.2 | 100.0 |

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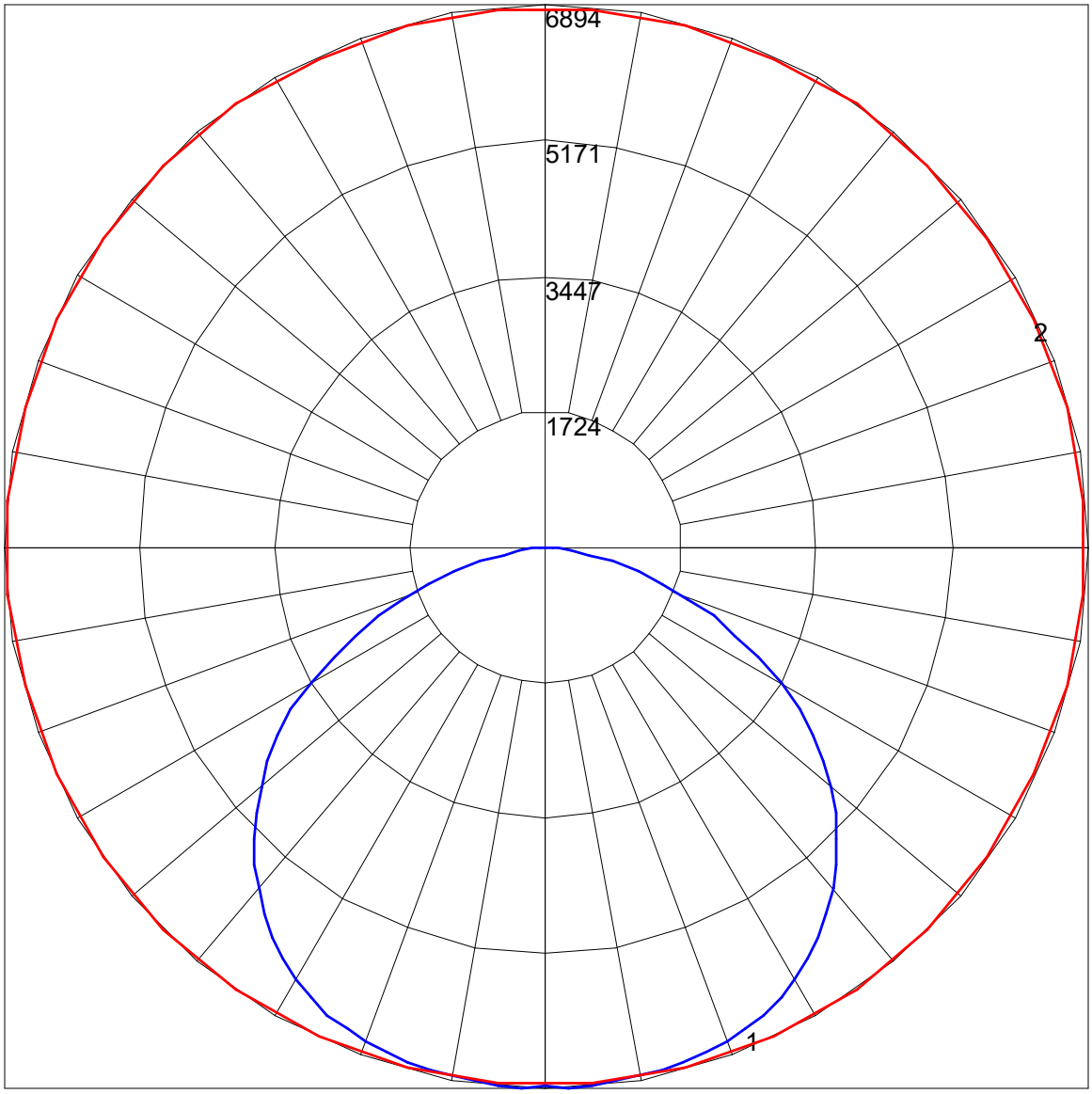
**POLAR GRAPH**




Maximum Candela = 6894  Located At Horizontal Angle = 55, Vertical Angle = 2.5
# 1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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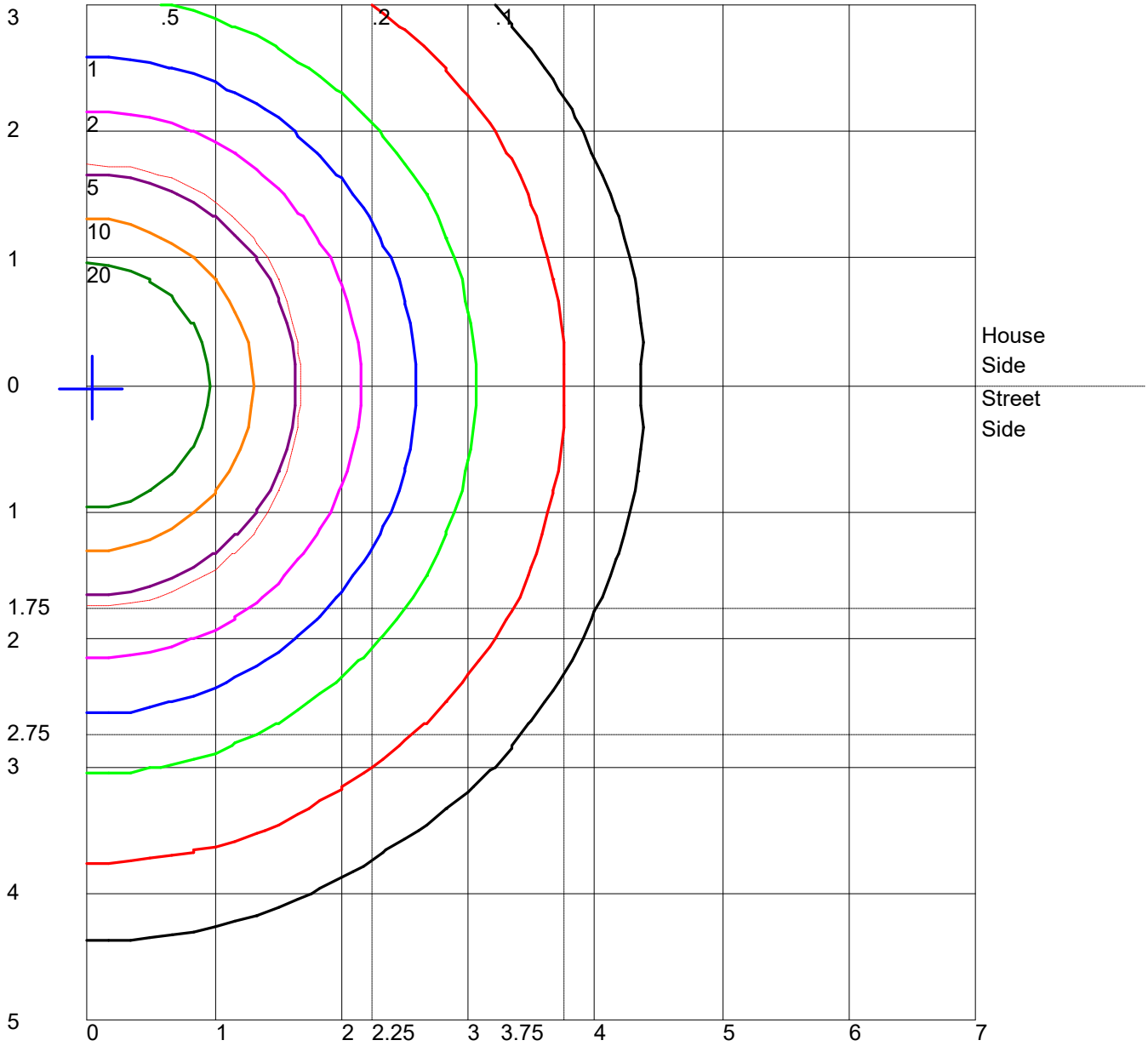
**ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE**




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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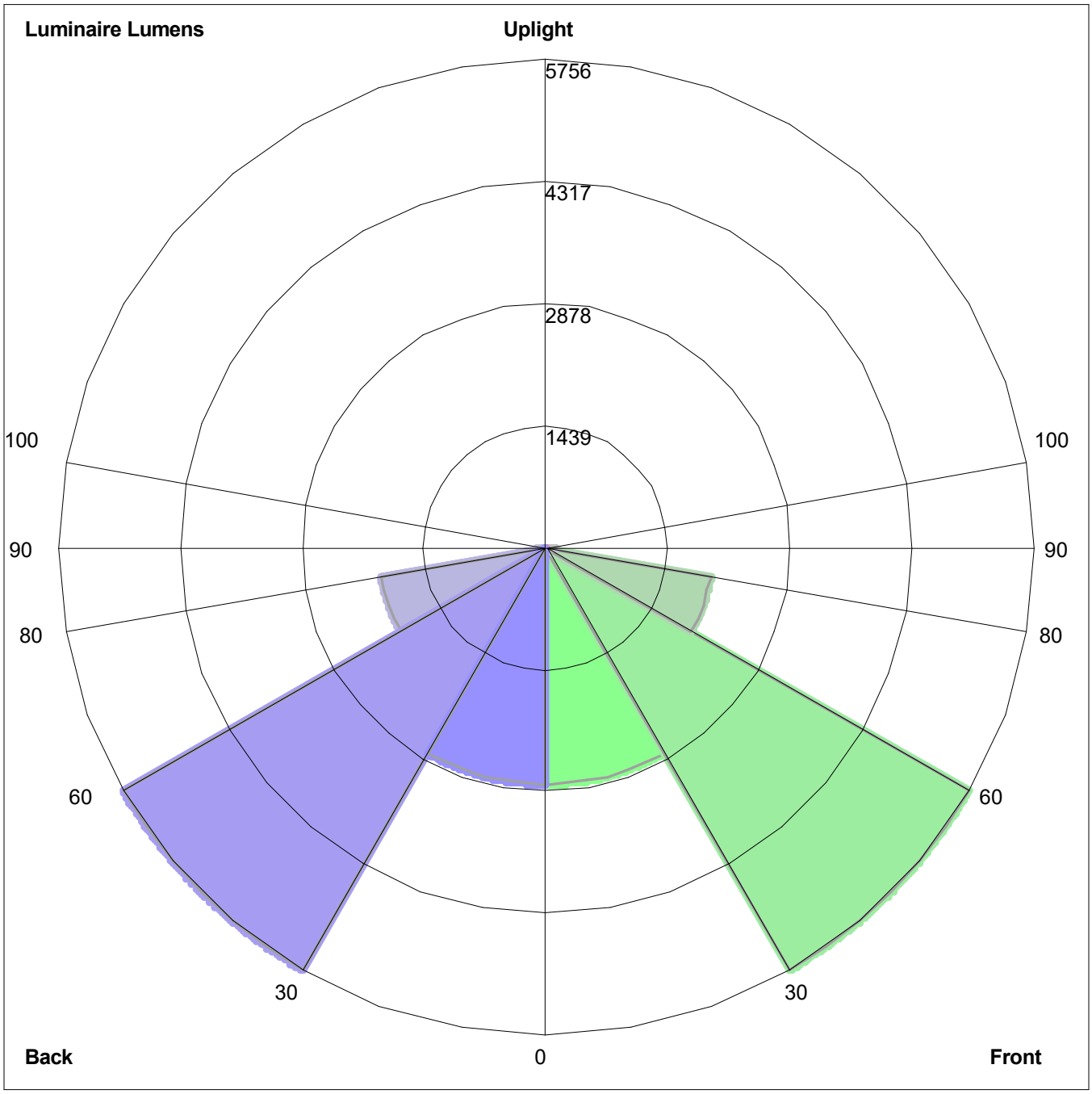
**LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH**




Luminaire Lumens:
Front: Low= 2799.0, Medium=5756.3, High=1974.7, Very High=114.6
Back: Low= 2799.0, Medium=5756.3, High=1974.7, Very High=114.6
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2

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