



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-18L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11803

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 05/06/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-5W-LED-18L-50

[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	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21513
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	149.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11452
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	11452
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1005 (4.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	919.5	N.A.	4.3
FM - Front-Medium (30-60)	4682.3	N.A.	21.8
FH - Front-High (60-80)	5080.8	N.A.	23.6
FVH - Front-Very High (80-90)	73.8	N.A.	0.3
BL - Back-Low (0-30)	919.5	N.A.	4.3
BM - Back-Medium (30-60)	4682.3	N.A.	21.8
BH - Back-High (60-80)	5080.8	N.A.	23.6
BVH - Back-Very High (80-90)	73.8	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	21512.8	N.A.	100.0
BUG Rating	B5-U0-G3		

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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	1624	1624	1624	1624	1624	1624	1624	1624	1624	1624
2.5	1629	1631	1629	1630	1627	1634	1630	1627	1621	1627
5.0	1655	1655	1655	1654	1656	1656	1651	1650	1640	1646
7.5	1706	1705	1704	1702	1702	1698	1690	1688	1680	1681
10.0	1769	1769	1767	1764	1765	1764	1756	1744	1732	1729
12.5	1843	1843	1847	1846	1850	1850	1837	1820	1803	1799
15.0	1923	1924	1932	1941	1952	1954	1938	1912	1882	1877
17.5	2005	2014	2028	2052	2064	2074	2055	2017	1978	1960
20.0	2097	2104	2127	2166	2197	2208	2189	2136	2082	2055
22.5	2191	2199	2239	2293	2349	2360	2338	2268	2202	2160
25.0	2293	2302	2357	2433	2509	2528	2499	2417	2324	2269
27.5	2402	2411	2483	2586	2686	2716	2679	2576	2460	2390
30.0	2512	2525	2616	2745	2874	2924	2879	2745	2608	2516
32.5	2632	2645	2752	2912	3067	3138	3081	2928	2755	2654
35.0	2777	2787	2902	3087	3262	3354	3290	3117	2924	2801
37.5	2927	2940	3064	3270	3470	3573	3521	3318	3102	2969
40.0	3088	3104	3241	3467	3687	3806	3743	3534	3304	3156
42.5	3272	3293	3440	3675	3921	4039	3964	3756	3520	3360
45.0	3467	3488	3643	3902	4144	4262	4195	3977	3751	3578
47.5	3690	3704	3863	4120	4355	4475	4430	4217	3982	3819
50.0	3930	3941	4098	4347	4578	4693	4665	4462	4224	4060
52.5	4185	4192	4357	4592	4792	4923	4909	4720	4510	4328
55.0	4464	4478	4639	4855	5037	5202	5173	5013	4794	4613
57.5	4767	4792	4945	5160	5348	5543	5519	5365	5132	4932
60.0	5189	5186	5340	5546	5773	6024	5971	5792	5523	5285
62.5	5714	5746	5910	6109	6417	6759	6620	6327	6064	5804
65.0	6065	6107	6463	6905	7484	7952	7693	7268	6931	6576
67.5	5758	5832	6463	7462	8785	9914	9299	8239	7386	6685
70.0	4365	4465	5263	6654	9292	11452	9850	7598	5959	4931
72.5	2331	2402	2981	4457	7275	10151	7931	5161	3321	2613
75.0	839	848	1107	1954	4065	6594	4478	2360	1363	1105
77.5	352	357	468	766	1540	2706	1854	986	592	463
80.0	153	153	182	294	610	1005	705	395	258	244
82.5	104	101	110	150	224	309	244	203	162	170
85.0	65	64	66	89	120	143	132	119	92	100
87.5	31	31	33	39	49	54	48	44	34	30
90.0	0	0	0	0	0	0	0	0	0	0

**Vert.
Angles** **Horizontal Angles**

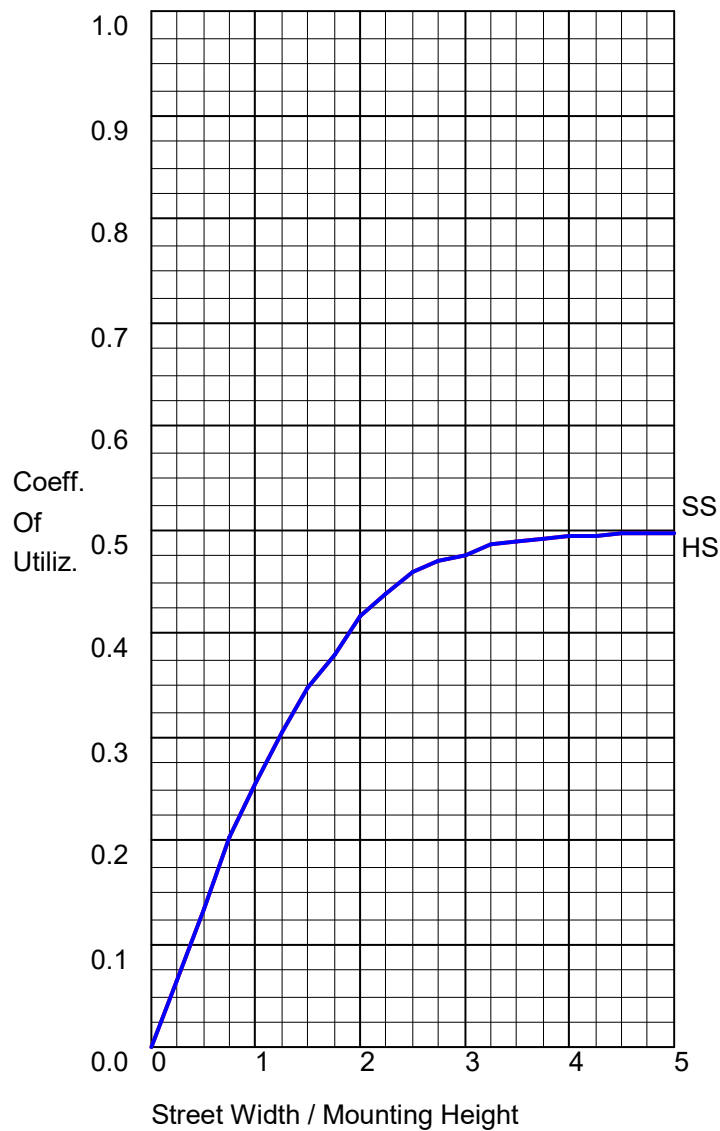
	<u>90</u>
0.0	1624
2.5	1625
5.0	1644
7.5	1680
10.0	1731
12.5	1794
15.0	1867
17.5	1957
20.0	2054
22.5	2154
25.0	2261
27.5	2377

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CANDELA TABULATION - (Cont.)

30.0	2505
32.5	2638
35.0	2779
37.5	2948
40.0	3138
42.5	3337
45.0	3540
47.5	3800
50.0	4039
52.5	4292
55.0	4570
57.5	4878
60.0	5238
62.5	5751
65.0	6499
67.5	6601
70.0	4876
72.5	2553
75.0	1081
77.5	450
80.0	251
82.5	174
85.0	98
87.5	30
90.0	0

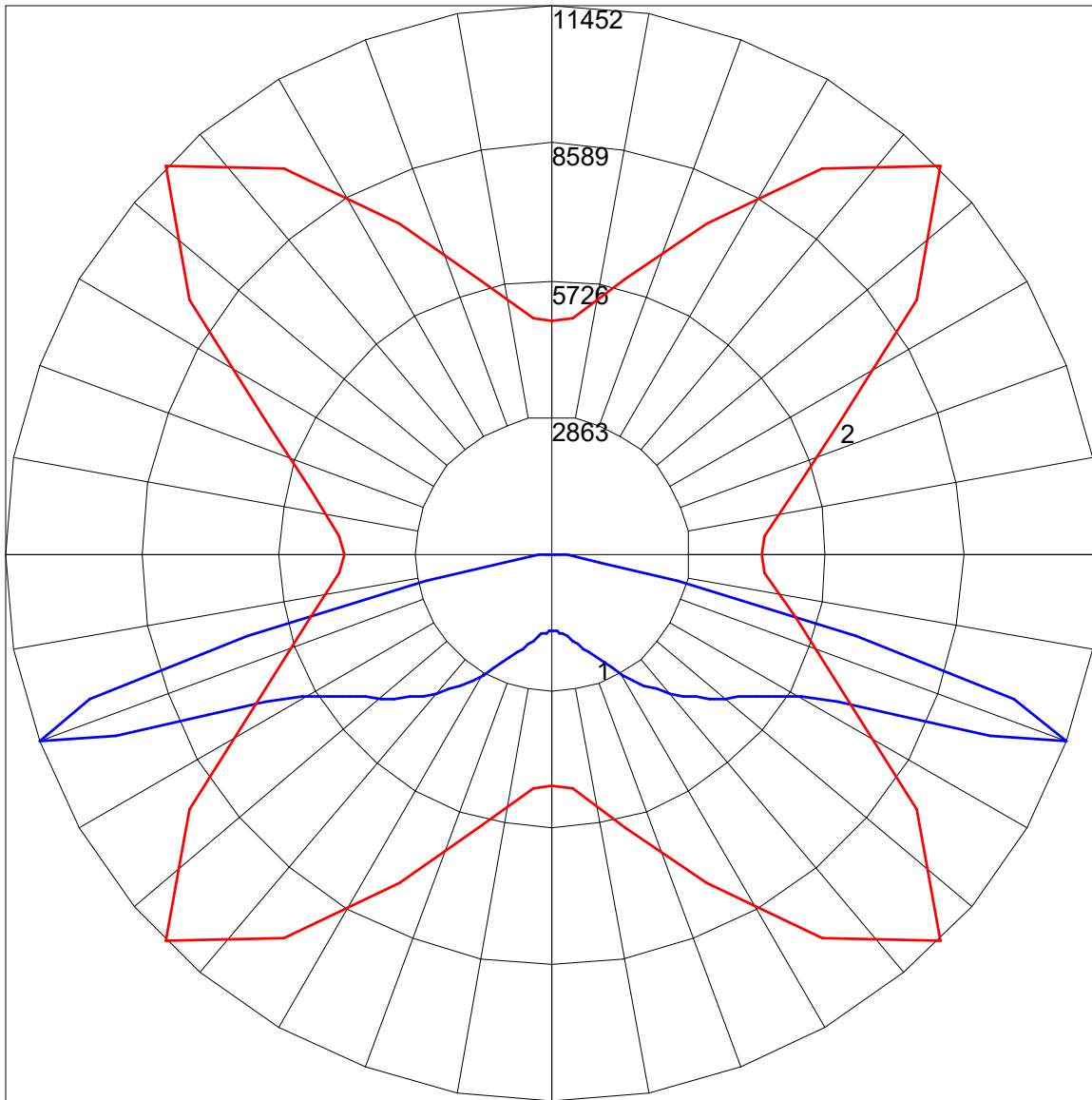
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

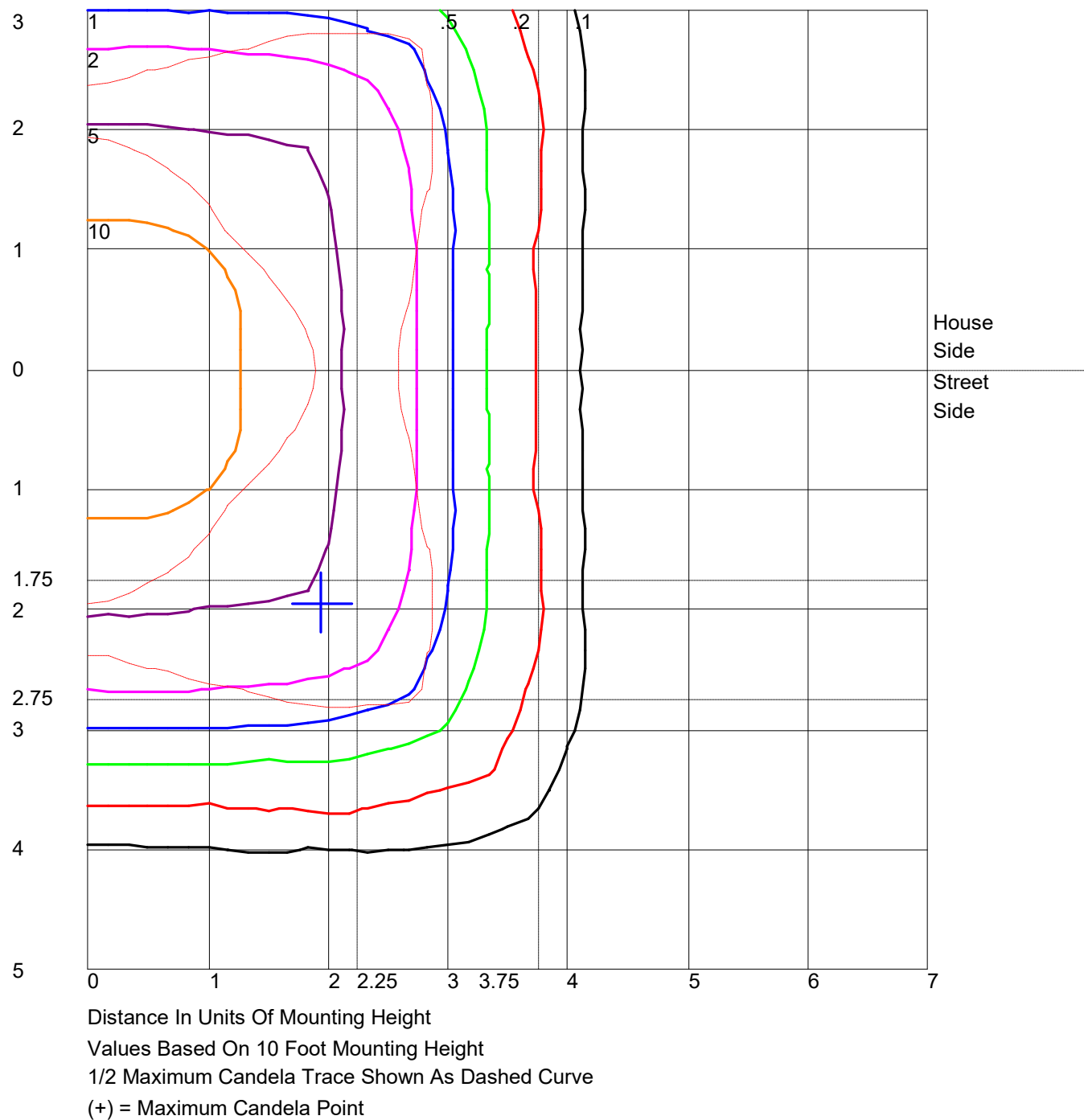
	Lumens	Percent Of Luminaire
Downward Street Side	10756.4	50.0
Downward House Side	10756.4	50.0
Downward Total	21512.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21512.8	100.0

POLAR GRAPH

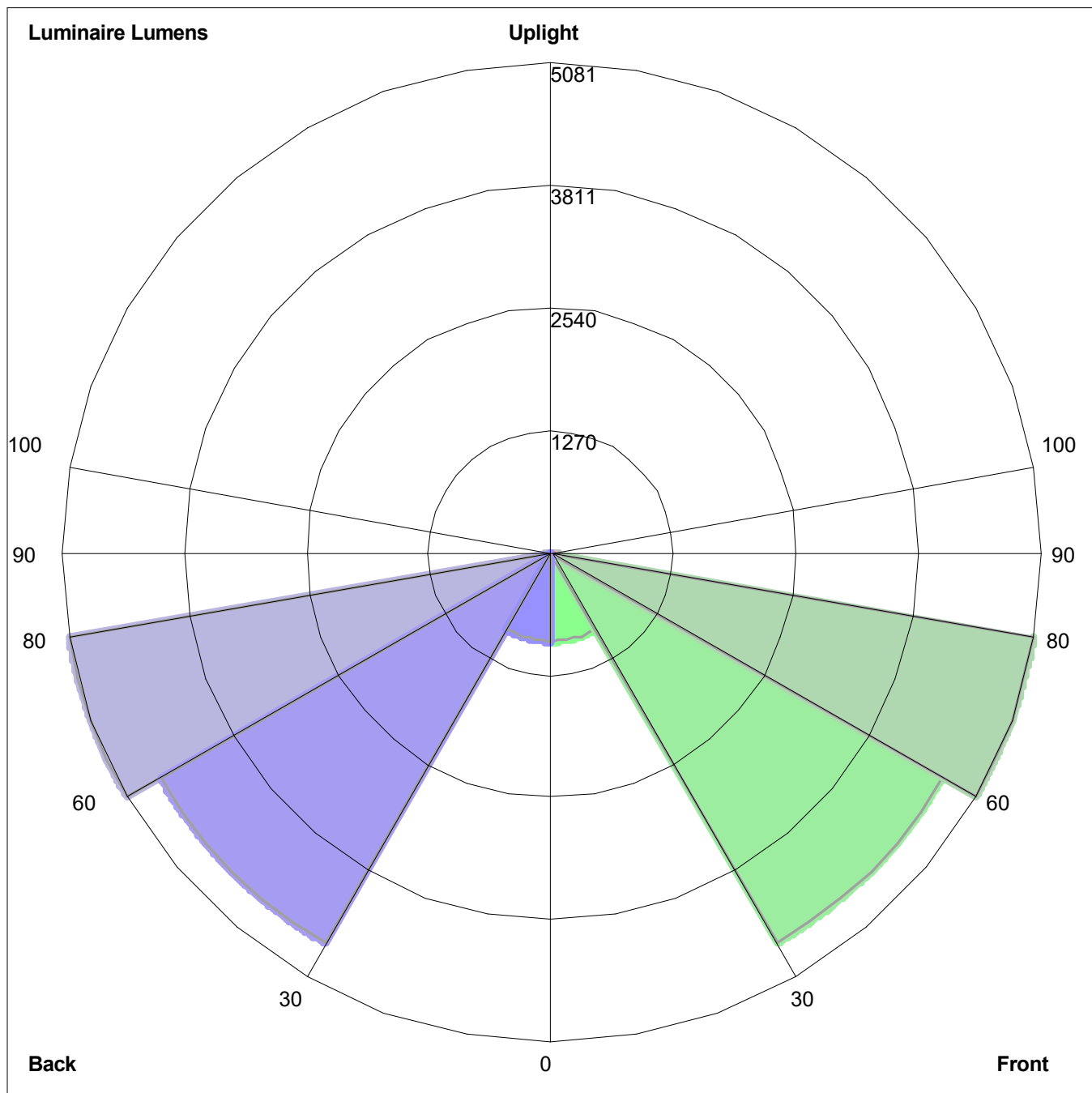


Maximum Candela = 11452 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=919.5, Medium=4682.3, High=5080.8, Very High=73.8
Back: Low=919.5, Medium=4682.3, High=5080.8, Very High=73.8
Uplight: Low=0.0, High=0.0

BUG Rating : B5-U0-G3