



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-18L-40.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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-5W-LED-18L-40
[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	20488
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	149.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10907
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	10907
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	957 (4.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-18L-40.IES

LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	875.7	N.A.	4.3
FM - Front-Medium (30-60)	4459.4	N.A.	21.8
FH - Front-High (60-80)	4838.9	N.A.	23.6
FVH - Front-Very High (80-90)	70.2	N.A.	0.3
BL - Back-Low (0-30)	875.7	N.A.	4.3
BM - Back-Medium (30-60)	4459.4	N.A.	21.8
BH - Back-High (60-80)	4838.9	N.A.	23.6
BVH - Back-Very High (80-90)	70.2	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	20488.4	N.A.	100.0
BUG Rating	B4-U0-G2		

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-18L-40.IES

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	1547	1547	1547	1547	1547	1547	1547	1547	1547	1547
2.5	1551	1553	1551	1552	1550	1556	1552	1550	1544	1550
5.0	1576	1576	1576	1575	1577	1577	1572	1571	1562	1568
7.5	1625	1624	1623	1621	1621	1617	1610	1608	1600	1601
10.0	1685	1685	1683	1680	1681	1680	1672	1661	1650	1647
12.5	1755	1755	1759	1758	1762	1762	1750	1733	1717	1713
15.0	1831	1832	1840	1849	1859	1861	1846	1821	1792	1788
17.5	1910	1918	1931	1954	1966	1975	1957	1921	1884	1867
20.0	1997	2004	2026	2063	2092	2103	2085	2034	1983	1957
22.5	2087	2094	2132	2184	2237	2248	2227	2160	2097	2057
25.0	2184	2192	2245	2317	2390	2408	2380	2302	2213	2161
27.5	2288	2296	2365	2463	2558	2587	2551	2453	2343	2276
30.0	2392	2405	2491	2614	2737	2785	2742	2614	2484	2396
32.5	2507	2519	2621	2773	2921	2989	2934	2789	2624	2528
35.0	2645	2654	2764	2940	3107	3194	3133	2969	2785	2668
37.5	2788	2800	2918	3114	3305	3403	3353	3160	2954	2828
40.0	2941	2956	3087	3302	3511	3625	3565	3366	3147	3006
42.5	3116	3136	3276	3500	3734	3847	3775	3577	3352	3200
45.0	3302	3322	3470	3716	3947	4059	3995	3788	3572	3408
47.5	3514	3528	3679	3924	4148	4262	4219	4016	3792	3637
50.0	3743	3753	3903	4140	4360	4470	4443	4250	4023	3867
52.5	3986	3992	4150	4373	4564	4689	4675	4495	4295	4122
55.0	4251	4265	4418	4624	4797	4954	4927	4774	4566	4393
57.5	4540	4564	4710	4914	5093	5279	5256	5110	4888	4697
60.0	4942	4939	5086	5282	5498	5737	5687	5516	5260	5033
62.5	5442	5472	5629	5818	6111	6437	6305	6026	5775	5528
65.0	5776	5816	6155	6576	7128	7573	7327	6922	6601	6263
67.5	5484	5554	6155	7107	8367	9442	8856	7847	7034	6367
70.0	4157	4252	5012	6337	8850	10907	9381	7236	5675	4696
72.5	2220	2288	2839	4245	6929	9668	7553	4915	3163	2489
75.0	799	808	1054	1861	3871	6280	4265	2248	1298	1052
77.5	335	340	446	730	1467	2577	1766	939	564	441
80.0	146	146	173	280	581	957	671	376	246	232
82.5	99	96	105	143	213	294	232	193	154	162
85.0	62	61	63	85	114	136	126	113	88	95
87.5	30	30	31	37	47	51	46	42	32	29
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

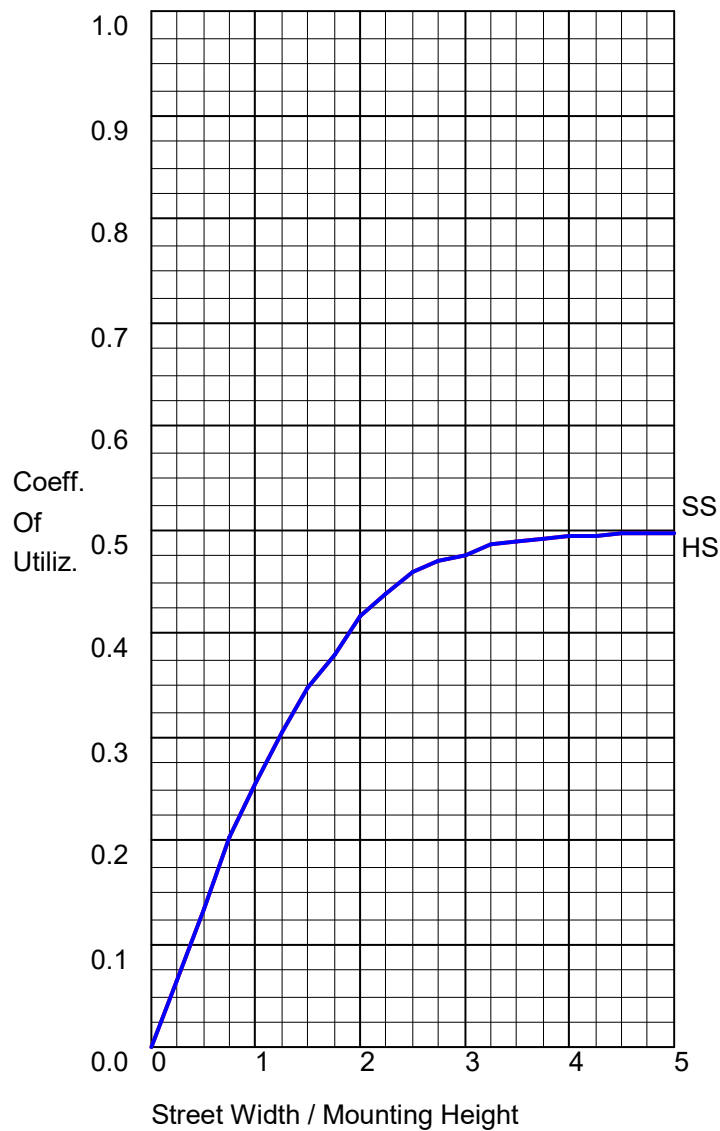
	<u>90</u>
0.0	1547
2.5	1548
5.0	1566
7.5	1600
10.0	1649
12.5	1709
15.0	1778
17.5	1864
20.0	1956
22.5	2051
25.0	2153
27.5	2264

IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-18L-40.IES

CANDELA TABULATION - (Cont.)

30.0	2386
32.5	2512
35.0	2647
37.5	2808
40.0	2989
42.5	3178
45.0	3371
47.5	3619
50.0	3847
52.5	4088
55.0	4352
57.5	4646
60.0	4989
62.5	5477
65.0	6190
67.5	6287
70.0	4644
72.5	2431
75.0	1030
77.5	429
80.0	239
82.5	166
85.0	93
87.5	29
90.0	0

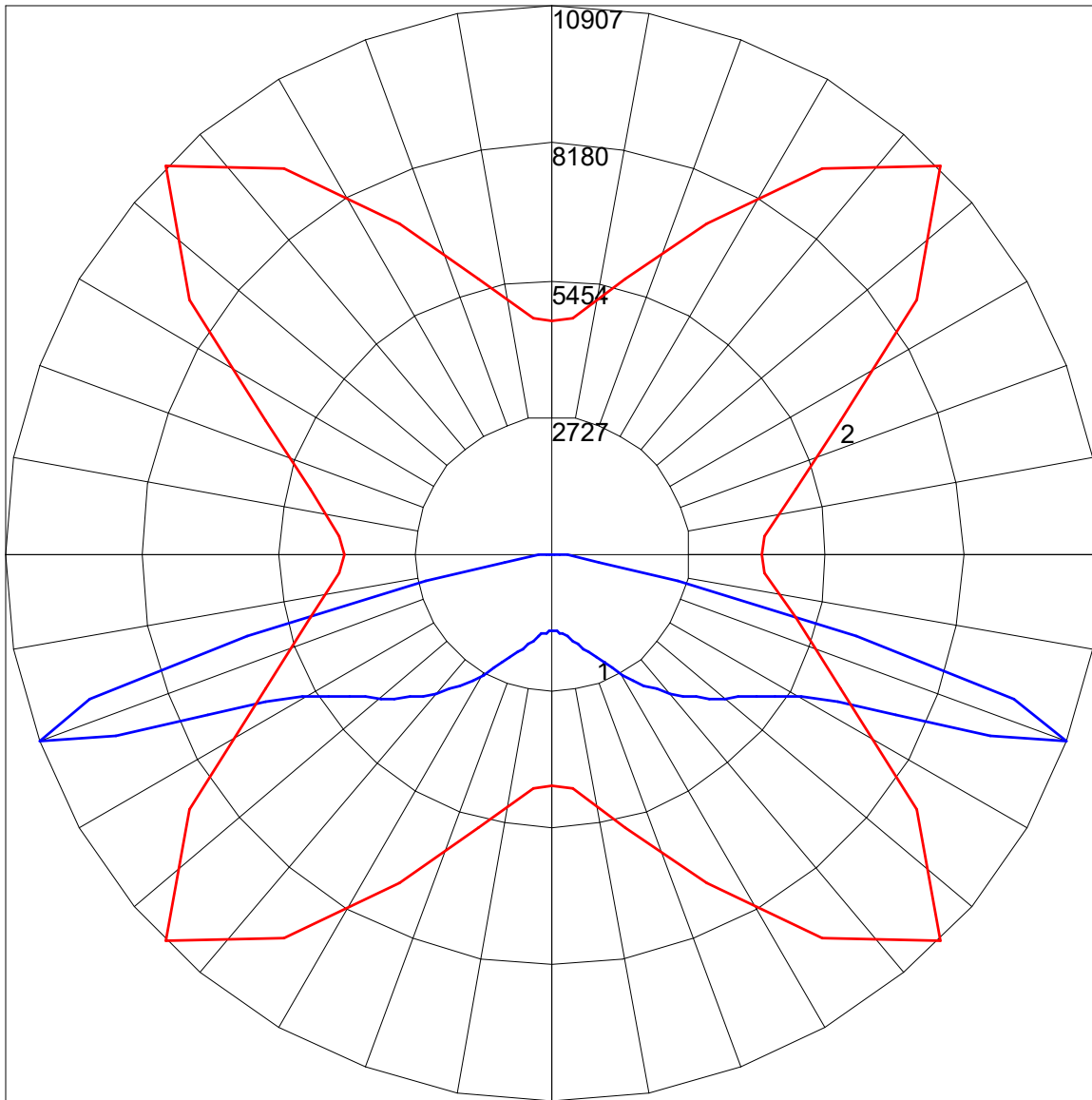
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

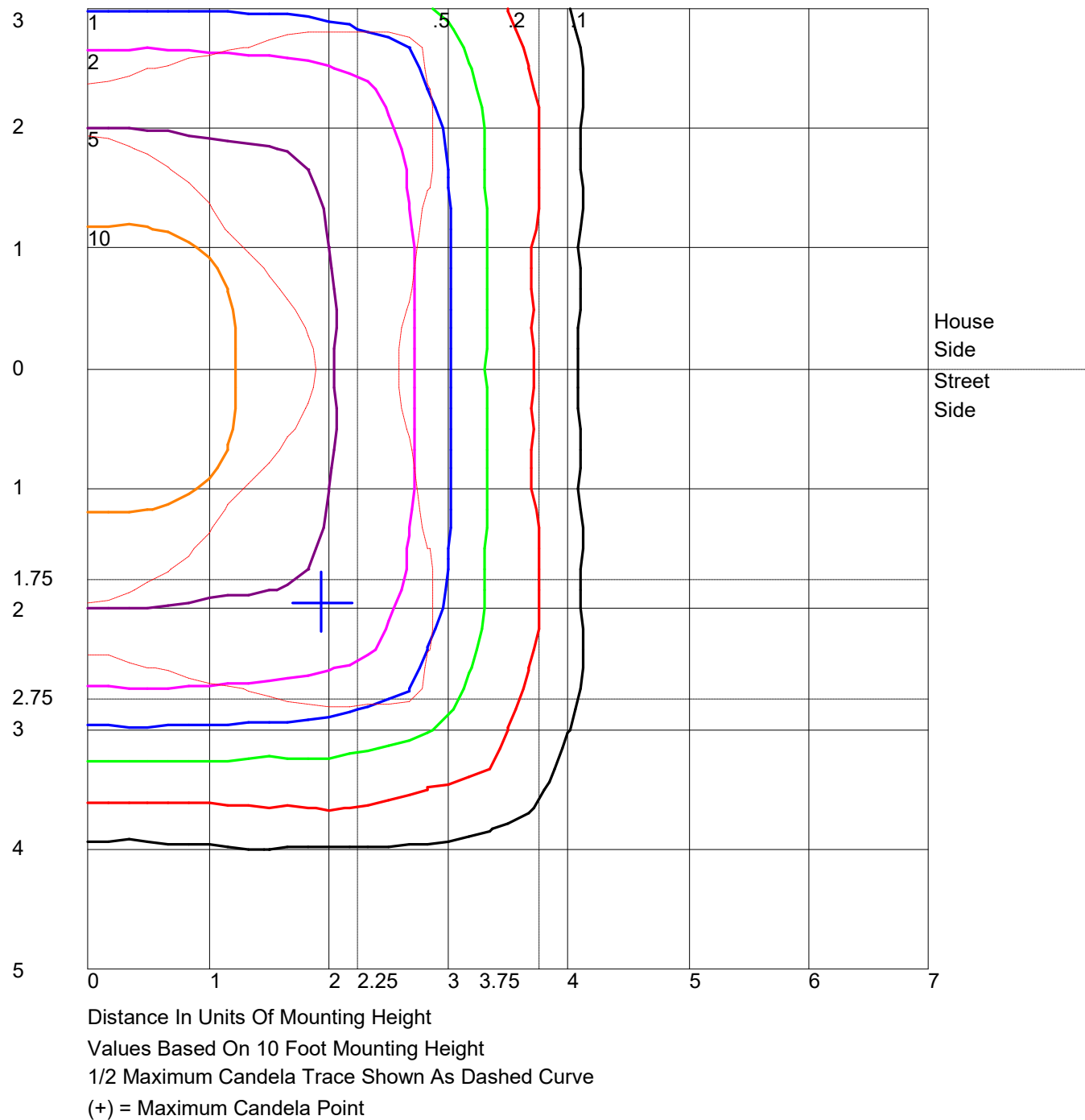
	Lumens	Percent Of Luminaire
Downward Street Side	10244.2	50.0
Downward House Side	10244.2	50.0
Downward Total	20488.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	20488.4	100.0

POLAR GRAPH

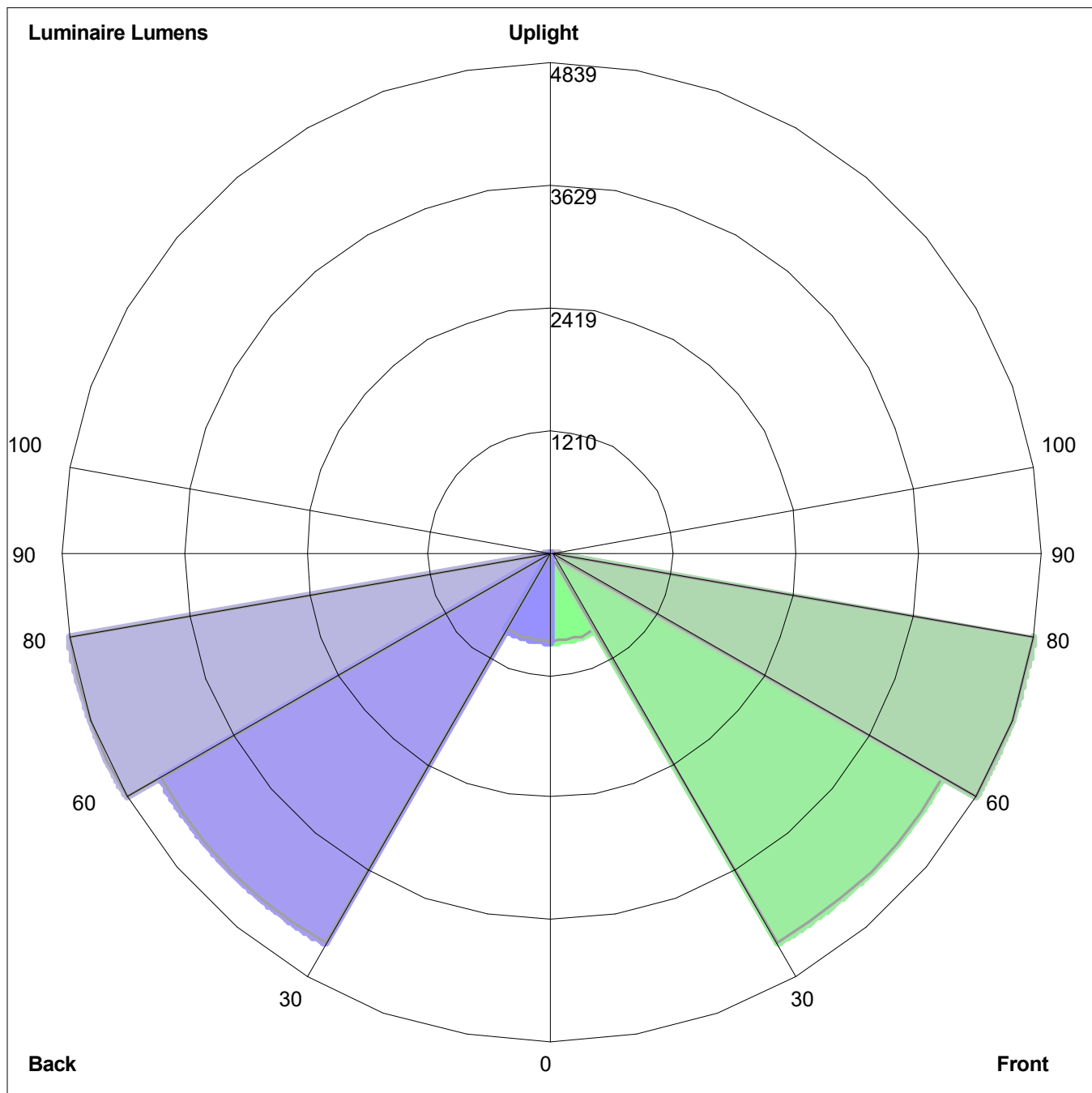


Maximum Candela = 10907 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=875.7, Medium=4459.4, High=4838.9, Very High=70.2
Back: Low=875.7, Medium=4459.4, High=4838.9, Very High=70.2
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G2