



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-25L-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11786
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/30/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-5W-LED-25L-50-IL
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[FACTORED] SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18240
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	227.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	13056
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	13056
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	593 (3.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1143.0	N.A.	6.3
FM - Front-Medium (30-60)	6868.6	N.A.	37.7
FH - Front-High (60-80)	5714.9	N.A.	31.3
FVH - Front-Very High (80-90)	61.9	N.A.	0.3
BL - Back-Low (0-30)	1130.3	N.A.	6.2
BM - Back-Medium (30-60)	2514.3	N.A.	13.8
BH - Back-High (60-80)	801.6	N.A.	4.4
BVH - Back-Very High (80-90)	5.1	N.A.	0.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	18239.7	N.A.	100.0
BUG Rating	B3-U0-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1941	1941	1941	1941	1941	1941	1941	1941	1941	1941
2.5	1949	1920	1923	1918	1924	1930	1904	1924	1932	1924
5.0	1925	1892	1900	1903	1911	1915	1889	1920	1933	1942
7.5	1942	1916	1917	1921	1934	1938	1911	1944	1958	1979
10.0	2004	1971	1979	1986	1991	2001	1973	2007	2012	2028
12.5	2101	2076	2082	2091	2099	2105	2076	2104	2102	2115
15.0	2233	2214	2221	2242	2241	2251	2229	2242	2229	2238
17.5	2388	2367	2386	2423	2432	2440	2440	2423	2394	2378
20.0	2563	2555	2576	2638	2673	2679	2671	2640	2587	2550
22.5	2742	2743	2794	2874	2933	2962	2939	2901	2809	2749
25.0	2936	2933	3013	3155	3236	3269	3251	3200	3066	2949
27.5	3141	3147	3262	3444	3595	3612	3613	3512	3336	3173
30.0	3352	3372	3528	3765	3956	3982	3983	3856	3618	3425
32.5	3569	3615	3785	4076	4317	4351	4330	4214	3926	3711
35.0	3801	3838	4041	4382	4656	4752	4716	4566	4257	3986
37.5	4029	4091	4300	4682	5007	5138	5149	4936	4628	4294
40.0	4302	4359	4587	4999	5385	5523	5553	5329	4963	4634
42.5	4605	4662	4918	5338	5758	5901	5942	5734	5343	4978
45.0	4932	4995	5262	5676	6118	6298	6336	6119	5716	5367
47.5	5317	5373	5629	6039	6531	6676	6754	6524	6136	5766
50.0	5673	5746	6032	6410	6942	7133	7205	6952	6522	6155
52.5	6053	6166	6424	6842	7366	7590	7641	7379	6959	6632
55.0	6484	6611	6865	7273	7855	8098	8135	7848	7495	7139
57.5	6936	7042	7324	7765	8468	8791	8855	8496	8032	7652
60.0	7291	7401	7814	8389	9301	9775	9919	9248	8507	7968
62.5	7498	7570	8026	8866	10312	10991	11063	10057	8907	8148
65.0	7000	7103	7790	8937	10904	12199	12072	10630	9133	8313
67.5	5165	5199	6364	8165	10791	13056	12974	11384	9351	8061
70.0	1487	1518	2698	5609	9385	12975	12988	11185	8097	6179
72.5	427	433	591	1259	5357	10612	10619	8841	5656	3824
75.0	191	196	224	401	1150	4881	5659	5154	2913	1707
77.5	92	92	105	147	344	997	1139	1829	1264	738
80.0	69	69	71	86	136	237	270	449	593	354
82.5	66	66	68	78	94	115	120	160	272	283
85.0	54	54	57	66	82	96	99	114	152	234
87.5	36	36	39	45	52	66	69	83	120	147
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles	Horizontal Angles									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	1941	1941	1941	1941	1941	1941	1941	1941	1941	1941
2.5	1935	1942	1950	1941	1956	1962	1966	1973	1986	1988
5.0	1955	1966	1984	1991	2005	2023	2036	2047	2053	2067
7.5	1998	2020	2037	2058	2081	2106	2121	2133	2142	2148
10.0	2062	2091	2108	2143	2177	2208	2222	2231	2243	2238
12.5	2149	2180	2206	2259	2305	2336	2340	2355	2341	2339
15.0	2261	2297	2331	2382	2449	2481	2483	2491	2466	2450
17.5	2393	2432	2469	2549	2617	2651	2668	2656	2606	2557
20.0	2558	2580	2627	2717	2799	2859	2873	2829	2749	2663
22.5	2733	2758	2817	2924	3027	3099	3100	3044	2902	2736
25.0	2922	2964	3009	3126	3262	3341	3333	3220	2907	2559
27.5	3128	3162	3204	3361	3509	3603	3573	3235	2580	2052

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CANDELA TABULATION - (Cont.)

30.0	3355	3388	3438	3595	3792	3903	3724	2918	1987	1414
32.5	3612	3643	3697	3870	4097	4189	3588	2306	1346	860
35.0	3876	3893	3958	4140	4397	4373	3090	1622	825	524
37.5	4165	4168	4254	4454	4698	4302	2389	1023	503	353
40.0	4481	4491	4559	4772	5001	3873	1650	607	340	275
42.5	4800	4817	4875	5125	5265	3115	1032	382	260	225
45.0	5144	5172	5255	5496	5290	2270	592	278	213	191
47.5	5515	5553	5644	5896	4987	1479	366	214	181	155
50.0	5944	5963	6061	6314	4307	880	255	176	144	120
52.5	6432	6491	6531	6741	3316	509	189	141	108	84
55.0	6925	6959	7032	7078	2296	306	152	107	73	52
57.5	7326	7388	7474	7091	1540	197	117	73	43	24
60.0	7564	7591	7688	6467	1109	149	85	44	19	6
62.5	7636	7654	7721	5140	927	133	57	20	5	1
65.0	7725	7747	7764	3470	878	195	33	6	2	0
67.5	7280	7257	7301	2040	832	300	17	4	1	0
70.0	5183	5103	5188	966	645	385	18	4	3	1
72.5	2990	2746	2792	339	308	335	13	4	2	0
75.0	1200	1130	1114	147	113	141	6	1	0	0
77.5	527	480	423	73	40	54	1	0	0	0
80.0	280	244	178	34	15	16	0	0	0	0
82.5	203	169	102	8	5	5	0	0	0	0
85.0	138	103	42	2	0	1	0	0	0	0
87.5	77	30	2	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

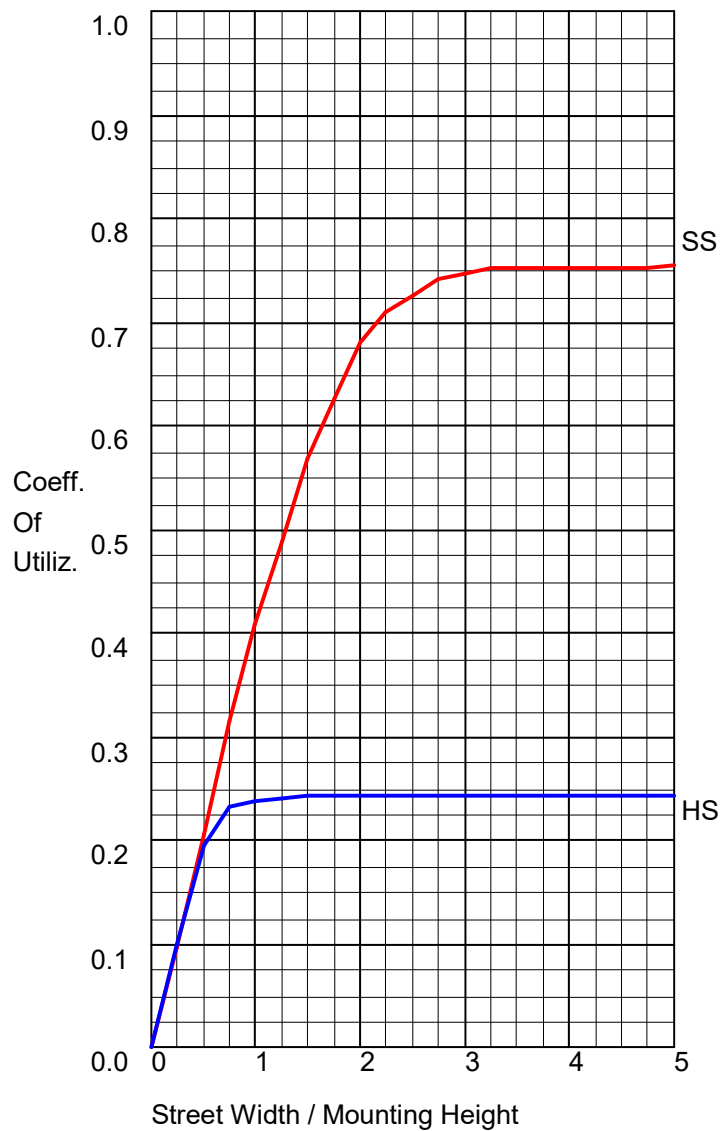
	<u>175.0</u>	<u>180.0</u>
0.0	1941	1941
2.5	1989	1984
5.0	2068	2060
7.5	2146	2147
10.0	2231	2249
12.5	2326	2333
15.0	2434	2425
17.5	2534	2533
20.0	2613	2620
22.5	2612	2602
25.0	2339	2310
27.5	1761	1726
30.0	1147	1114
32.5	696	677
35.0	428	426
37.5	312	311
40.0	251	246
42.5	212	210
45.0	180	175
47.5	144	142
50.0	108	106
52.5	72	70
55.0	41	40
57.5	17	16
60.0	2	2
62.5	0	0
65.0	0	0

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CANDELA TABULATION - (Cont.)

67.5	0	0
70.0	0	0
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

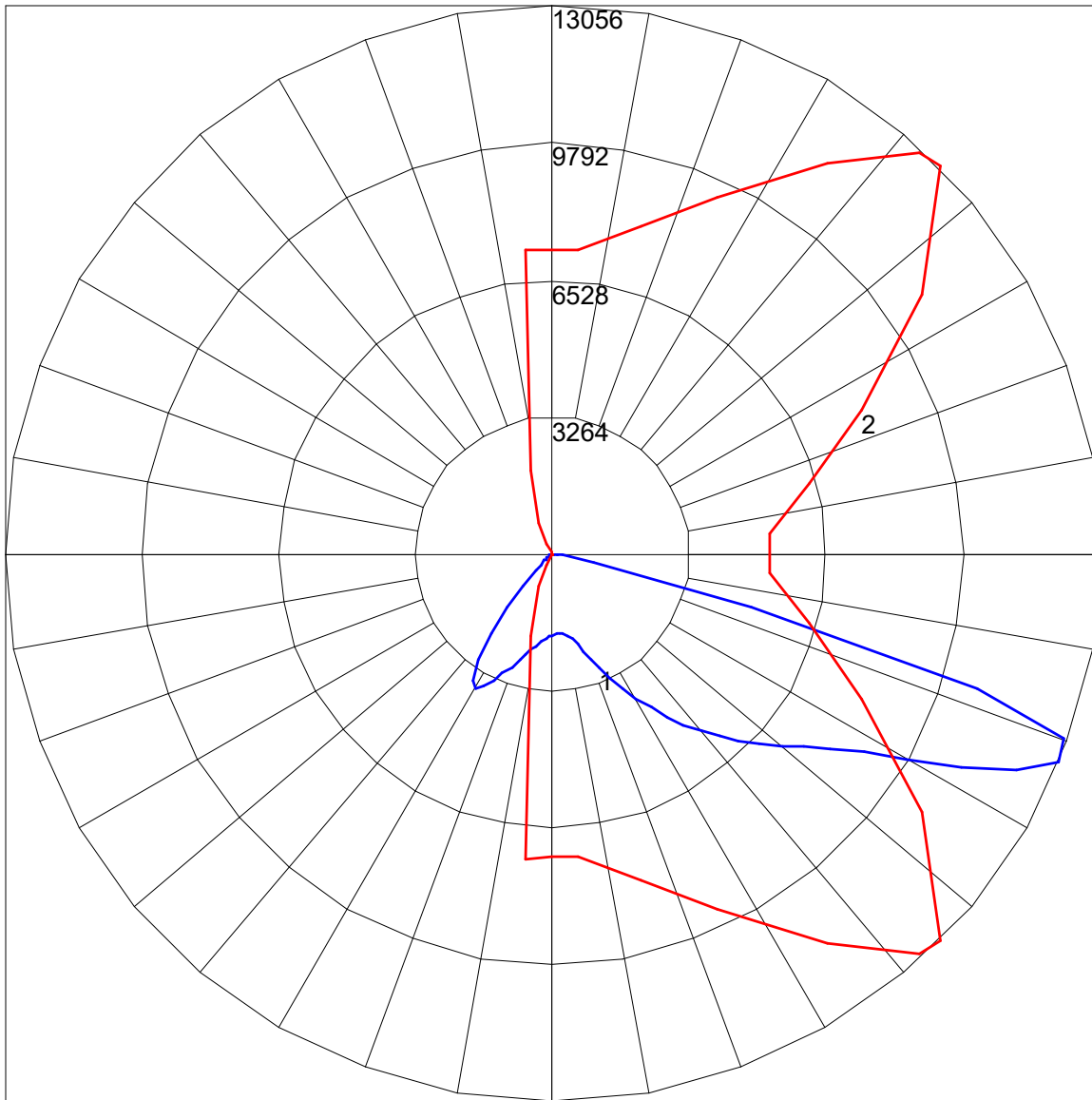
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

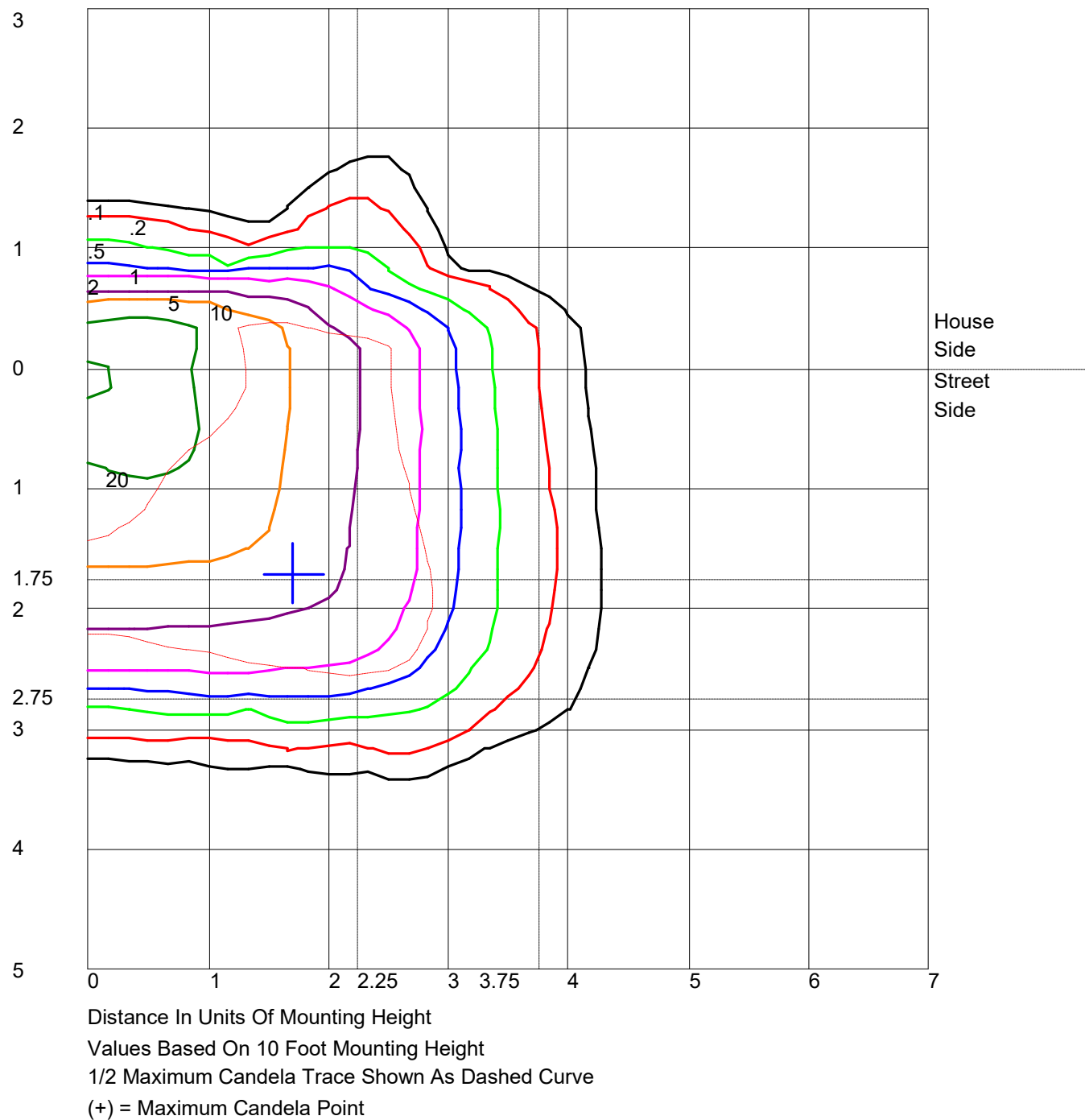
	Lumens	Percent Of Luminaire
Downward Street Side	13788.4	75.6
Downward House Side	4451.3	24.4
Downward Total	18239.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	18239.7	100.0

POLAR GRAPH

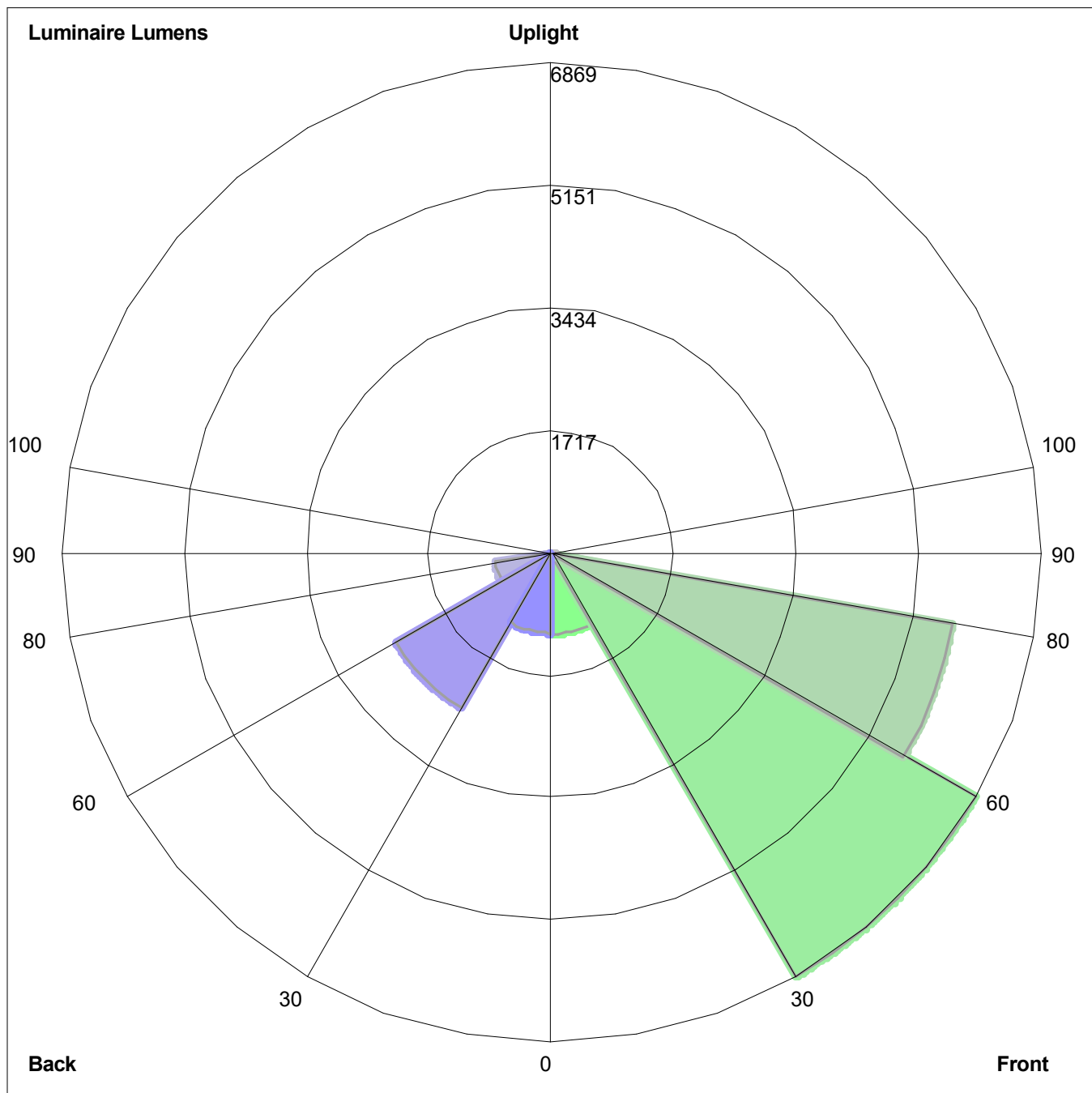


Maximum Candela = 13056 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low= 1143.0, Medium=6868.6, High=5714.9, Very High=61.9
Back: Low=1130.3, Medium=2514.3, High=801.6, Very High=5.1
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3