



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-25L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11790
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/01/20
[MANUFACT] LSI INDUSTRIES, INC.
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor
[LUMCAT] ENM4-SAX-3-LED-25L-40-IL

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	23879
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	227.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	25682
Maximum Candela Angle	52.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	25682
Maximum Candela Angle (<90 Degrees Vertical)	52.5H 62.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1195 (5.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1224.4	N.A.	5.1
FM - Front-Medium (30-60)	12350.9	N.A.	51.7
FH - Front-High (60-80)	7718.1	N.A.	32.3
FVH - Front-Very High (80-90)	153.8	N.A.	0.6
BL - Back-Low (0-30)	681.9	N.A.	2.9
BM - Back-Medium (30-60)	1422.9	N.A.	6.0
BH - Back-High (60-80)	310.8	N.A.	1.3
BVH - Back-Very High (80-90)	16.3	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	23879.1	N.A.	100.0
BUG Rating	B2-U0-G4		

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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>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	2186	2186	2186	2186	2186	2186	2186	2186	2186	2186
2.5	2158	2161	2162	2166	2160	2164	2161	2170	2176	2178
5.0	2127	2128	2134	2143	2147	2153	2153	2163	2169	2176
7.5	2068	2074	2087	2098	2120	2140	2144	2157	2171	2180
10.0	2025	2033	2048	2068	2092	2118	2139	2152	2182	2191
12.5	2018	2025	2038	2068	2095	2132	2156	2168	2210	2220
15.0	2060	2062	2082	2126	2170	2203	2226	2237	2263	2266
17.5	2179	2193	2211	2258	2317	2339	2364	2370	2371	2357
20.0	2415	2433	2447	2488	2542	2578	2593	2595	2570	2521
22.5	2784	2803	2835	2844	2897	2960	2954	2950	2903	2820
25.0	3251	3294	3316	3354	3420	3497	3482	3469	3401	3234
27.5	3853	3892	3937	3984	4081	4201	4207	4144	4042	3744
30.0	4482	4522	4603	4679	4859	4986	4989	4958	4747	4309
32.5	5115	5105	5227	5383	5655	5815	5811	5772	5462	4901
35.0	5755	5763	5882	6134	6441	6655	6650	6579	6211	5468
37.5	6506	6538	6668	6949	7235	7487	7484	7377	6895	5960
40.0	7445	7491	7605	7860	8078	8341	8299	8146	7488	6365
42.5	8575	8624	8751	8973	9164	9214	9117	8912	8001	6757
45.0	10041	10098	10195	10383	10410	10191	9930	9652	8504	7160
47.5	11869	12033	12309	12272	12095	11585	10887	10515	9086	7742
50.0	13579	13824	14161	14363	14094	13215	12173	11699	9934	8944
52.5	14899	15036	16047	16983	16777	15292	13995	13367	11599	10674
55.0	15669	15903	17032	18723	19107	17929	16739	16120	14125	12666
57.5	14302	14500	16488	19183	20884	20505	20128	19764	17692	13813
60.0	10838	11164	13453	17365	21233	22844	23723	23606	19631	14425
62.5	6233	6574	8755	12935	19100	23692	25682	25583	20619	14697
65.0	2562	2787	4077	7663	14315	21819	25282	25584	20791	13636
67.5	1399	1466	1955	3576	9288	16858	22464	23452	18913	10656
70.0	862	907	1130	2017	4708	10760	17026	18694	14190	7312
72.5	598	622	783	1359	2714	5551	9894	11375	8963	3195
75.0	406	423	555	1068	1962	2780	4404	5460	3853	1251
77.5	287	297	402	848	1582	1654	1796	2104	1868	671
80.0	218	231	311	657	1195	1040	865	878	928	417
82.5	168	181	254	529	789	625	453	446	472	308
85.0	126	133	199	408	507	322	243	245	251	209
87.5	82	88	138	257	192	112	94	90	90	95
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	2186	2186	2186	2186	2186	2186	2186	2186	2186	2186
2.5	2188	2200	2201	2201	2215	2223	2217	2218	2212	2211
5.0	2200	2206	2219	2219	2247	2268	2272	2273	2280	2280
7.5	2209	2214	2233	2245	2278	2310	2311	2300	2295	2281
10.0	2214	2229	2249	2271	2312	2330	2287	2193	2088	1996
12.5	2225	2233	2265	2293	2322	2275	2085	1850	1660	1505
15.0	2252	2258	2280	2309	2298	2068	1720	1452	1285	1187
17.5	2317	2295	2311	2323	2193	1768	1386	1216	1103	1032
20.0	2442	2392	2372	2342	1999	1486	1207	1087	1009	940
22.5	2660	2565	2480	2340	1767	1328	1104	1014	974	882
25.0	2950	2766	2624	2279	1566	1233	1031	972	997	918
27.5	3276	3000	2778	2162	1439	1161	980	958	1097	1066

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CANDELA TABULATION - (Cont.)

30.0	3631	3256	2927	2023	1340	1106	935	980	1275	1284
32.5	3998	3503	3061	1901	1231	1068	910	1017	1477	1477
35.0	4344	3719	3163	1806	1143	1038	874	1025	1702	1660
37.5	4623	3889	3240	1704	1062	995	838	1002	1926	1945
40.0	4854	4030	3296	1604	990	930	794	951	2144	1999
42.5	5129	4194	3346	1542	932	870	743	864	2231	1458
45.0	5499	4498	3502	1561	880	808	676	769	1822	1010
47.5	6301	5045	3787	1629	832	733	593	651	1008	743
50.0	7380	5781	4104	1692	756	603	477	540	556	583
52.5	8636	6526	4410	1742	632	420	329	379	364	484
55.0	9469	6924	4480	1697	466	279	235	248	254	400
57.5	9962	7019	4306	1516	341	223	186	176	191	327
60.0	10298	6823	3765	1270	291	197	154	136	151	272
62.5	9948	5942	2744	967	264	178	132	109	124	234
65.0	8403	4760	1919	687	233	153	113	88	102	197
67.5	6119	3420	1211	439	187	120	86	70	74	166
70.0	3205	1759	653	272	135	87	59	50	52	132
72.5	1194	759	377	191	96	60	40	34	32	96
75.0	584	440	288	160	71	41	26	21	17	64
77.5	333	290	235	142	53	29	16	15	10	41
80.0	250	221	198	122	39	19	13	11	8	25
82.5	181	164	161	94	25	15	12	9	7	15
85.0	116	108	115	58	15	13	12	9	6	9
87.5	53	45	56	24	11	11	10	8	5	6
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

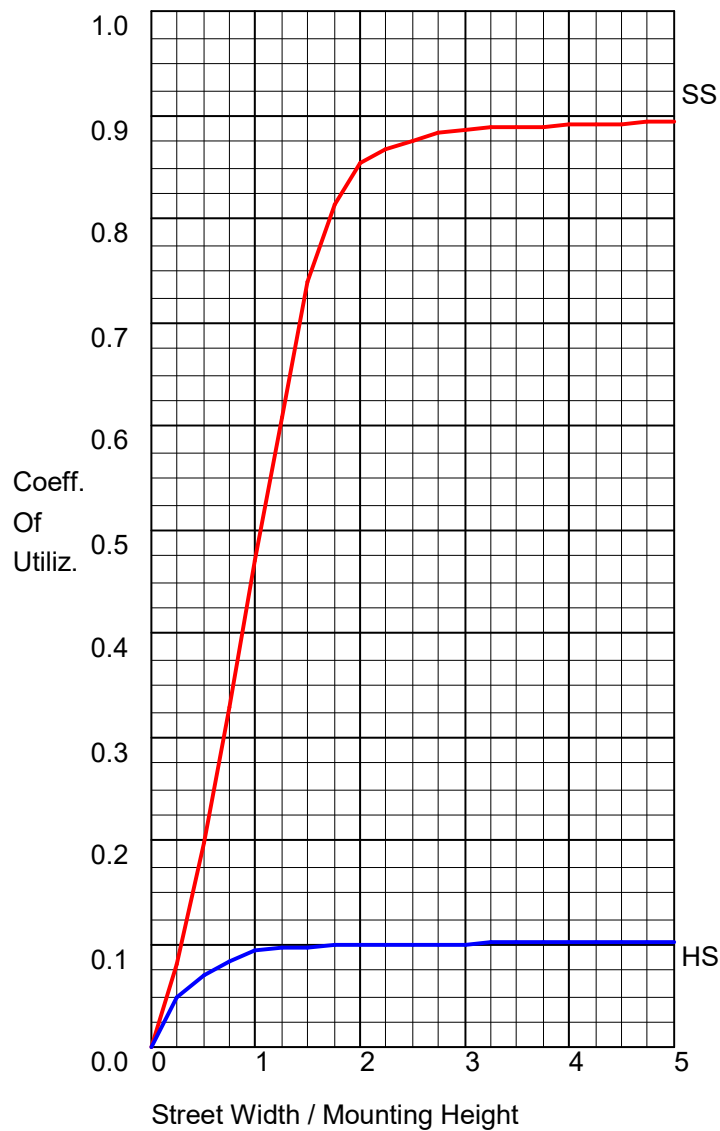
	<u>175.0</u>	<u>180.0</u>
0.0	2186	2186
2.5	2202	2215
5.0	2262	2273
7.5	2251	2242
10.0	1930	1895
12.5	1432	1415
15.0	1140	1131
17.5	992	988
20.0	896	891
22.5	827	819
25.0	827	814
27.5	900	872
30.0	1027	971
32.5	1090	1022
35.0	1188	1115
37.5	1188	1064
40.0	914	799
42.5	649	574
45.0	497	450
47.5	412	364
50.0	368	306
52.5	342	263
55.0	327	245
57.5	329	252
60.0	342	277
62.5	353	306
65.0	353	328

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CANDELA TABULATION - (Cont.)

67.5	337	321
70.0	293	284
72.5	233	231
75.0	167	172
77.5	116	128
80.0	82	90
82.5	56	61
85.0	34	38
87.5	18	20
90.0	0	0

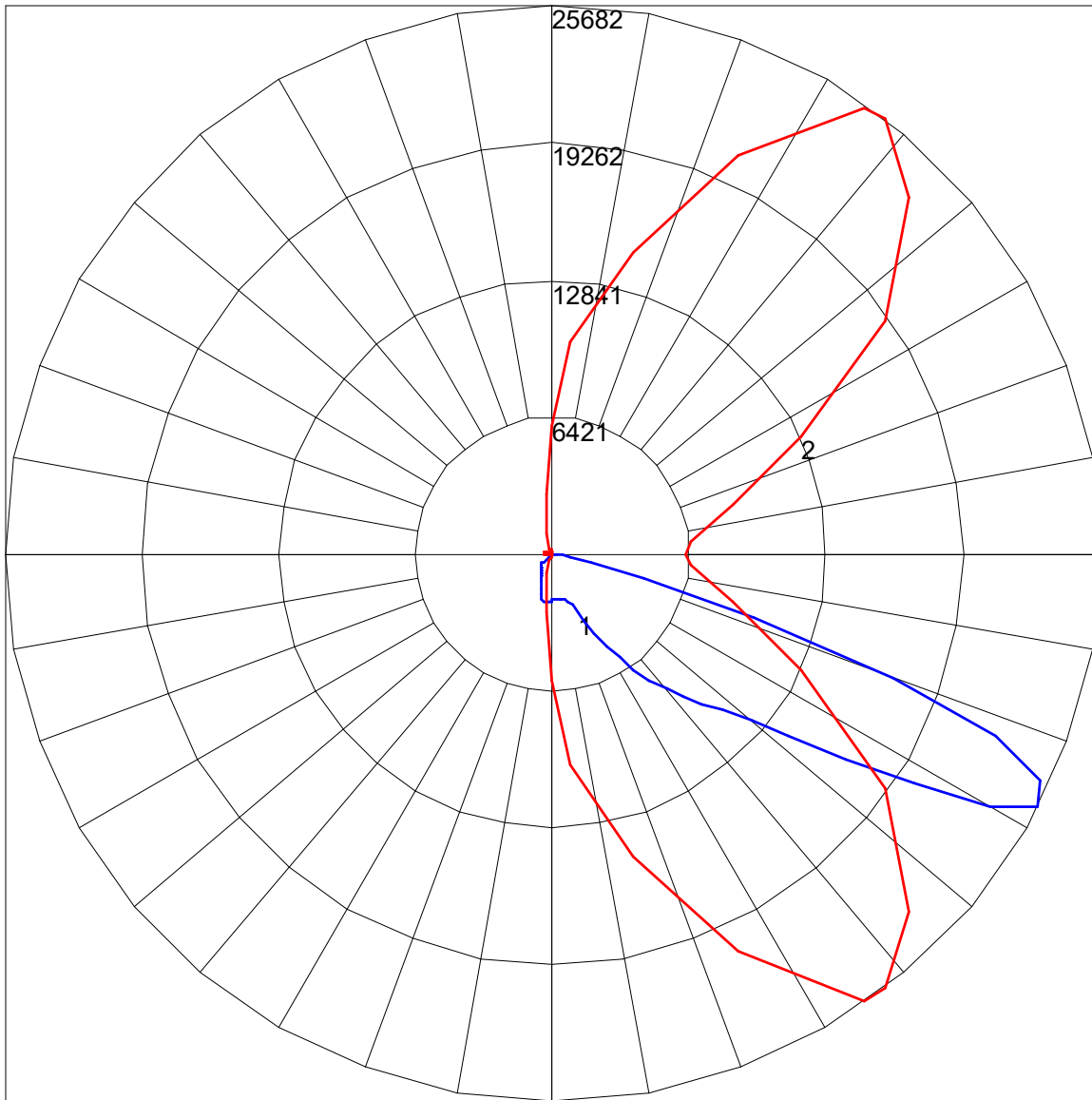
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

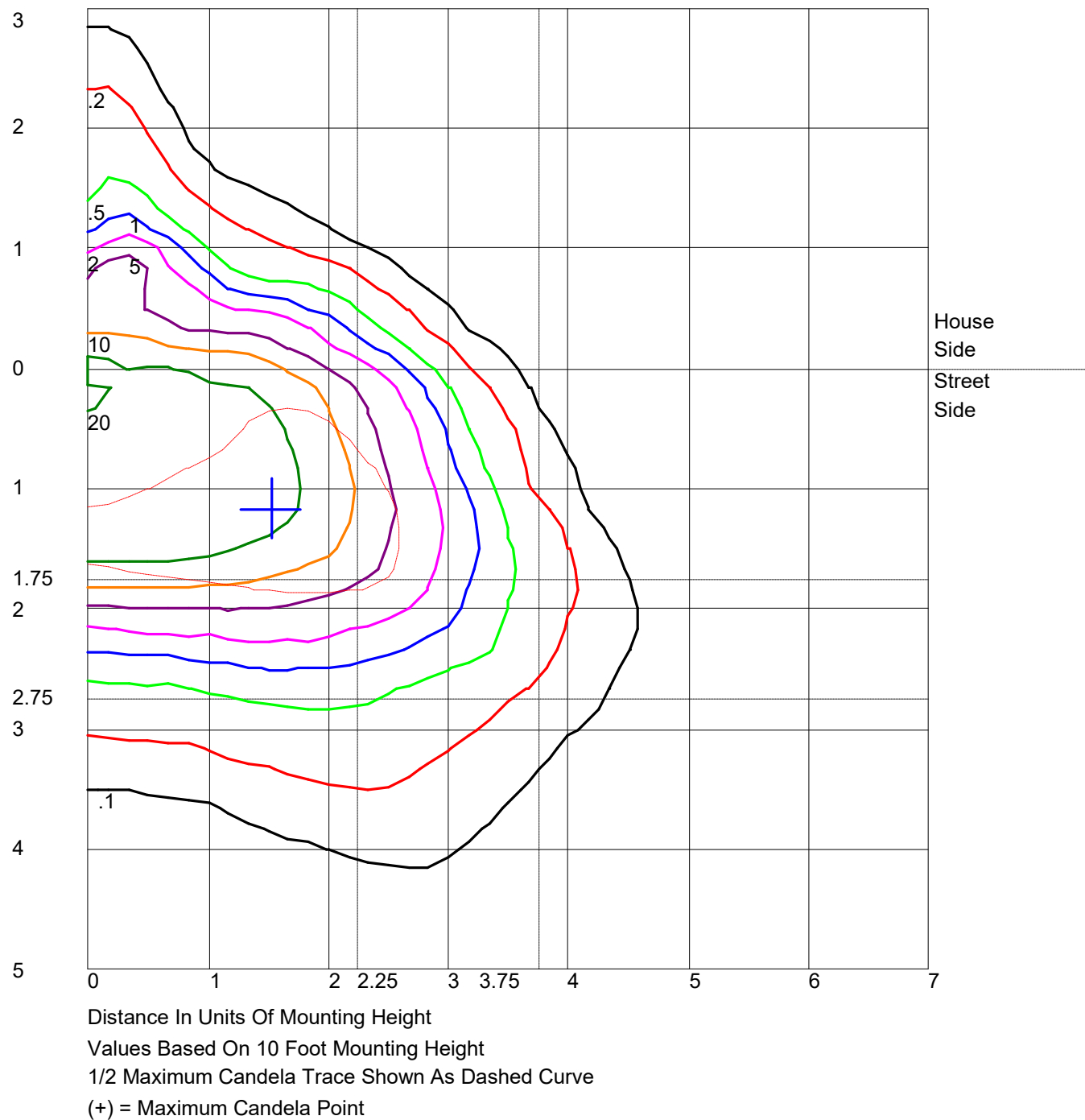
	Lumens	Percent Of Luminaire
Downward Street Side	21447.2	89.8
Downward House Side	2431.9	10.2
Downward Total	23879.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	23879.1	100.0

POLAR GRAPH

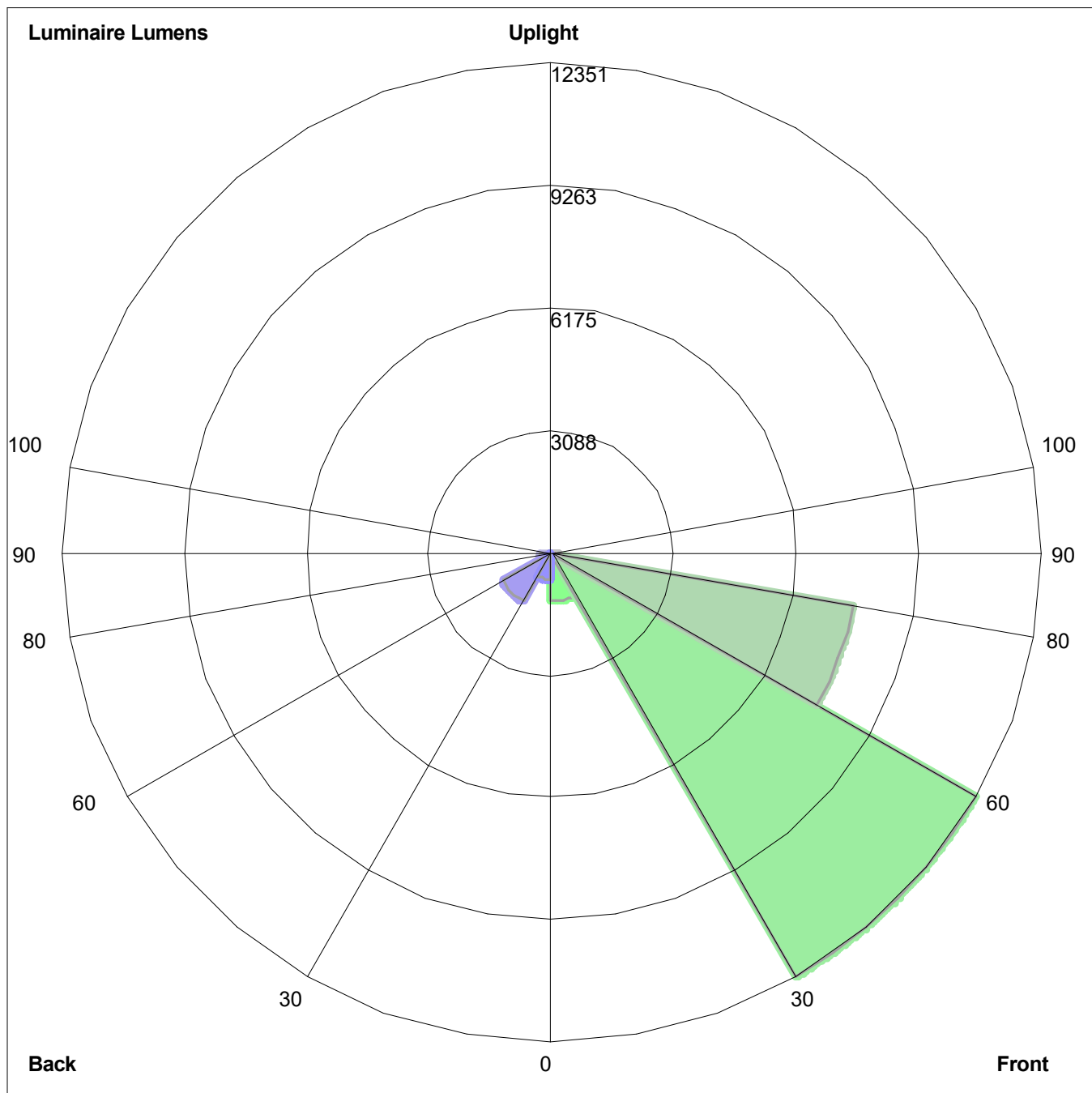


Maximum Candela = 25682 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1224.4, Medium=12350.9, High=7718.1, Very High=153.8
Back: Low=681.9, Medium=1422.9, High=310.8, Very High=16.3
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G4