



## IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-25L-40-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

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-5W-LED-25L-40-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	17371
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	227.9
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12434
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	12434
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	565 (3.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : ENM4-SAX-5W-LED-25L-40-IL.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1088.6	N.A.	6.3
FM - Front-Medium (30-60)	6541.6	N.A.	37.7
FH - Front-High (60-80)	5442.8	N.A.	31.3
FVH - Front-Very High (80-90)	58.9	N.A.	0.3
BL - Back-Low (0-30)	1076.5	N.A.	6.2
BM - Back-Medium (30-60)	2394.7	N.A.	13.8
BH - Back-High (60-80)	763.5	N.A.	4.4
BVH - Back-Very High (80-90)	4.8	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	17371.4	N.A.	100.0
BUG Rating	B3-U0-G3		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>47.5</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	1849	1849	1849	1849	1849	1849	1849	1849	1849	1849
<b>2.5</b>	1856	1829	1831	1827	1832	1838	1813	1832	1840	1832
<b>5.0</b>	1833	1802	1810	1812	1820	1824	1799	1829	1841	1850
<b>7.5</b>	1850	1825	1826	1830	1842	1846	1820	1851	1865	1885
<b>10.0</b>	1909	1877	1885	1891	1896	1906	1879	1911	1916	1931
<b>12.5</b>	2001	1977	1983	1991	1999	2005	1977	2004	2002	2014
<b>15.0</b>	2127	2109	2115	2135	2134	2144	2123	2135	2123	2131
<b>17.5</b>	2274	2254	2272	2308	2316	2324	2324	2308	2280	2265
<b>20.0</b>	2441	2433	2453	2512	2546	2551	2544	2514	2464	2429
<b>22.5</b>	2611	2612	2661	2737	2793	2821	2799	2763	2675	2618
<b>25.0</b>	2796	2793	2870	3005	3082	3113	3096	3048	2920	2809
<b>27.5</b>	2991	2997	3107	3280	3424	3440	3441	3345	3177	3022
<b>30.0</b>	3192	3211	3360	3586	3768	3792	3793	3672	3446	3262
<b>32.5</b>	3399	3443	3605	3882	4111	4144	4124	4013	3739	3534
<b>35.0</b>	3620	3655	3849	4173	4434	4526	4491	4349	4054	3796
<b>37.5</b>	3837	3896	4095	4459	4769	4893	4904	4701	4408	4090
<b>40.0</b>	4097	4151	4369	4761	5129	5260	5289	5075	4727	4413
<b>42.5</b>	4386	4440	4684	5084	5484	5620	5659	5461	5089	4741
<b>45.0</b>	4697	4757	5011	5406	5827	5998	6034	5828	5444	5111
<b>47.5</b>	5064	5117	5361	5751	6220	6358	6432	6213	5844	5491
<b>50.0</b>	5403	5472	5745	6105	6611	6793	6862	6621	6211	5862
<b>52.5</b>	5765	5872	6118	6516	7015	7229	7277	7028	6628	6316
<b>55.0</b>	6175	6296	6538	6927	7481	7712	7748	7474	7138	6799
<b>57.5</b>	6606	6707	6975	7395	8065	8372	8433	8091	7650	7288
<b>60.0</b>	6944	7049	7442	7990	8858	9310	9447	8808	8102	7589
<b>62.5</b>	7141	7210	7644	8444	9821	10468	10536	9578	8483	7760
<b>65.0</b>	6667	6765	7419	8511	10385	11618	11497	10124	8698	7917
<b>67.5</b>	4919	4951	6061	7776	10277	12434	12356	10842	8906	7677
<b>70.0</b>	1416	1446	2570	5342	8938	12357	12370	10652	7711	5885
<b>72.5</b>	407	412	563	1199	5102	10107	10113	8420	5387	3642
<b>75.0</b>	182	187	213	382	1095	4649	5390	4909	2774	1626
<b>77.5</b>	88	88	100	140	328	950	1085	1742	1204	703
<b>80.0</b>	66	66	68	82	130	226	257	428	565	337
<b>82.5</b>	63	63	65	74	90	110	114	152	259	270
<b>85.0</b>	51	51	54	63	78	91	94	109	145	223
<b>87.5</b>	34	34	37	43	50	63	66	79	114	140
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	1849	1849	1849	1849	1849	1849	1849	1849	1849	1849
<b>2.5</b>	1843	1850	1857	1849	1863	1869	1872	1879	1891	1893
<b>5.0</b>	1862	1872	1890	1896	1910	1927	1939	1950	1955	1969
<b>7.5</b>	1903	1924	1940	1960	1982	2006	2020	2031	2040	2046
<b>10.0</b>	1964	1991	2008	2041	2073	2103	2116	2125	2136	2131
<b>12.5</b>	2047	2076	2101	2151	2195	2225	2229	2243	2230	2228
<b>15.0</b>	2153	2188	2220	2269	2332	2363	2365	2372	2349	2333
<b>17.5</b>	2279	2316	2351	2428	2492	2525	2541	2530	2482	2435
<b>20.0</b>	2436	2457	2502	2588	2666	2723	2736	2694	2618	2536
<b>22.5</b>	2603	2627	2683	2785	2883	2951	2952	2899	2764	2606
<b>25.0</b>	2783	2823	2866	2977	3107	3182	3174	3067	2769	2437
<b>27.5</b>	2979	3011	3051	3201	3342	3431	3403	3081	2457	1954

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**CANDELA TABULATION - (Cont.)**

30.0	3195	3227	3274	3424	3611	3717	3547	2779	1892	1347
32.5	3440	3470	3521	3686	3902	3990	3417	2196	1282	819
35.0	3691	3708	3770	3943	4188	4165	2943	1545	786	499
37.5	3967	3970	4051	4242	4474	4097	2275	974	479	336
40.0	4268	4277	4342	4545	4763	3689	1571	578	324	262
42.5	4571	4588	4643	4881	5014	2967	983	364	248	214
45.0	4899	4926	5005	5234	5038	2162	564	265	203	182
47.5	5252	5289	5375	5615	4750	1409	349	204	172	148
50.0	5661	5679	5772	6013	4102	838	243	168	137	114
52.5	6126	6182	6220	6420	3158	485	180	134	103	80
55.0	6595	6628	6697	6741	2187	291	145	102	70	50
57.5	6977	7036	7118	6753	1467	188	111	70	41	23
60.0	7204	7230	7322	6159	1056	142	81	42	18	6
62.5	7272	7290	7353	4895	883	127	54	19	5	1
65.0	7357	7378	7394	3305	836	186	31	6	2	0
67.5	6933	6911	6953	1943	792	286	16	4	1	0
70.0	4936	4860	4941	920	614	367	17	4	3	1
72.5	2848	2615	2659	323	293	319	12	4	2	0
75.0	1143	1076	1061	140	108	134	6	1	0	0
77.5	502	457	403	70	38	51	1	0	0	0
80.0	267	232	170	32	14	15	0	0	0	0
82.5	193	161	97	8	5	5	0	0	0	0
85.0	131	98	40	2	0	1	0	0	0	0
87.5	73	29	2	0	0	0	0	0	0	0
90.0	0	0	0	0	0	0	0	0	0	0

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

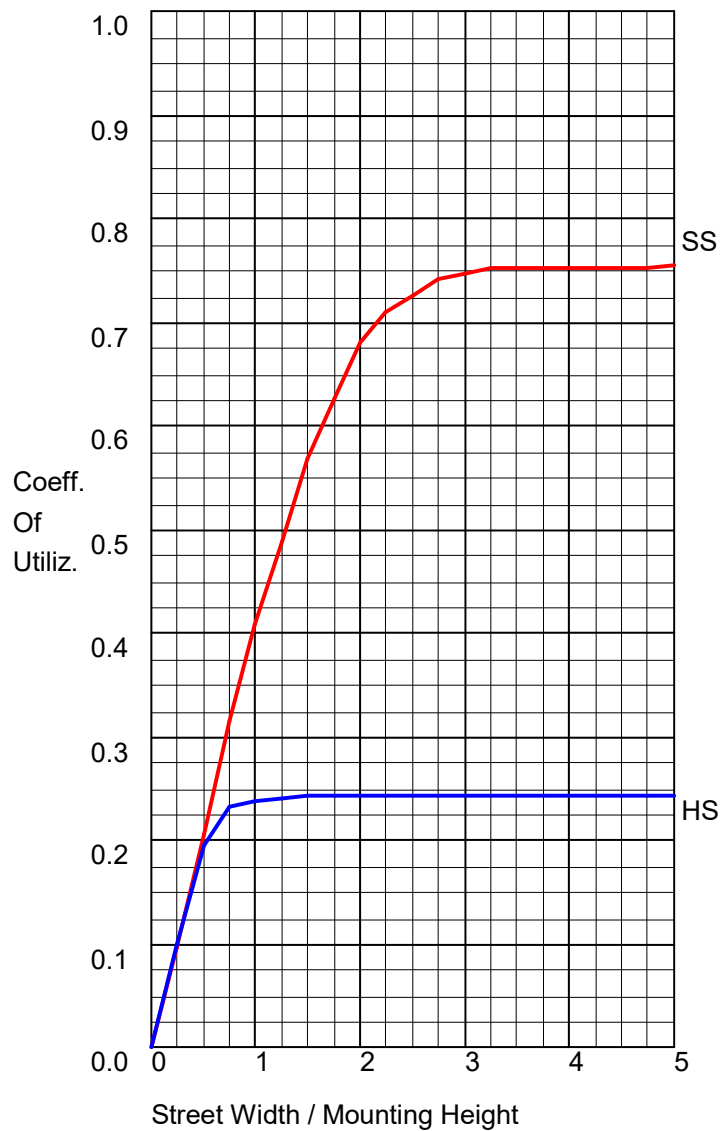
	<u>175.0</u>	<u>180.0</u>
0.0	1849	1849
2.5	1894	1890
5.0	1970	1962
7.5	2044	2045
10.0	2125	2142
12.5	2215	2222
15.0	2318	2310
17.5	2413	2412
20.0	2489	2495
22.5	2488	2478
25.0	2228	2200
27.5	1677	1644
30.0	1092	1061
32.5	663	645
35.0	408	406
37.5	297	296
40.0	239	234
42.5	202	200
45.0	171	167
47.5	137	135
50.0	103	101
52.5	69	67
55.0	39	38
57.5	16	15
60.0	2	2
62.5	0	0
65.0	0	0

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	0	0
<b>70.0</b>	0	0
<b>72.5</b>	0	0
<b>75.0</b>	0	0
<b>77.5</b>	0	0
<b>80.0</b>	0	0
<b>82.5</b>	0	0
<b>85.0</b>	0	0
<b>87.5</b>	0	0
<b>90.0</b>	0	0

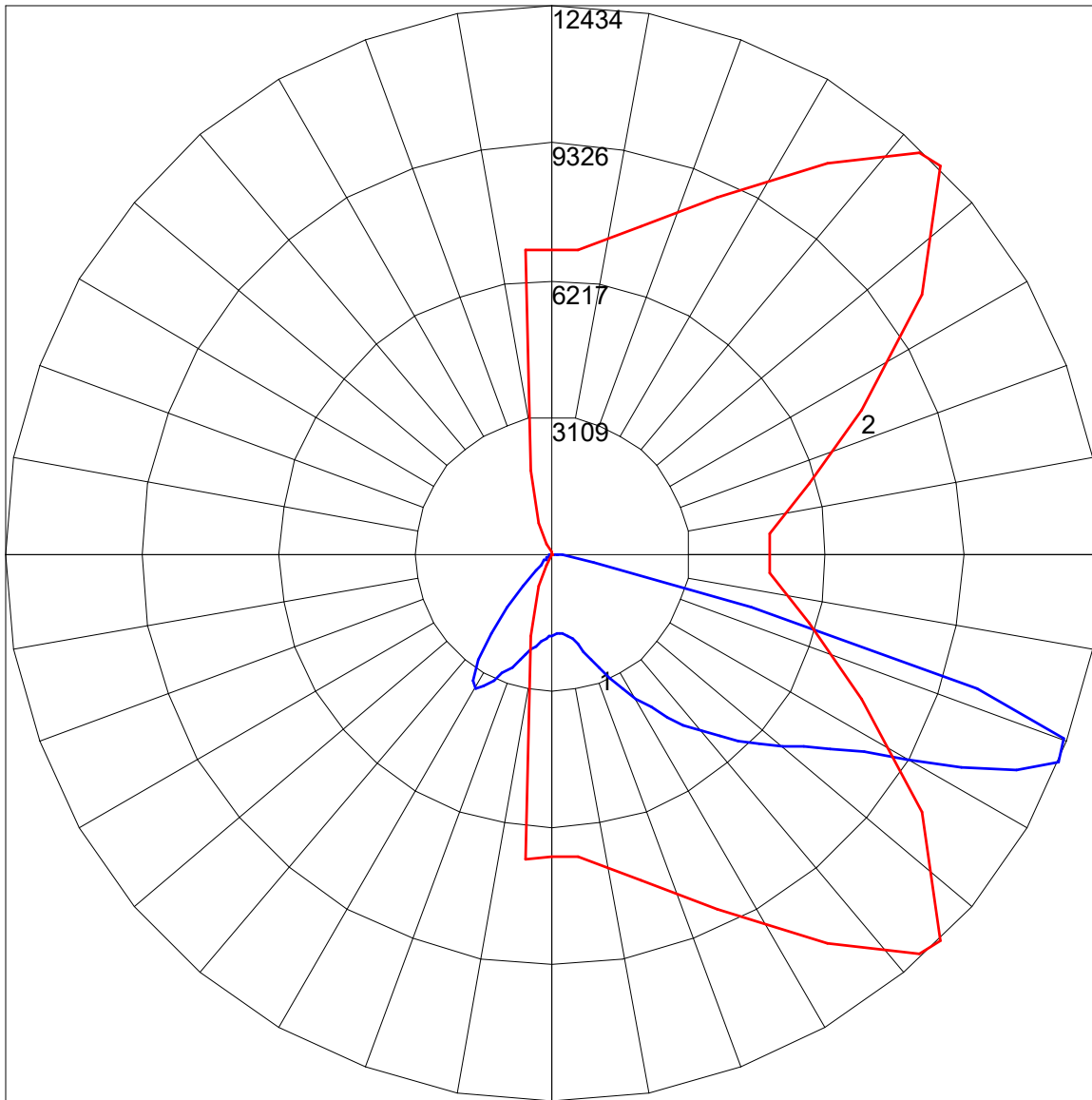
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

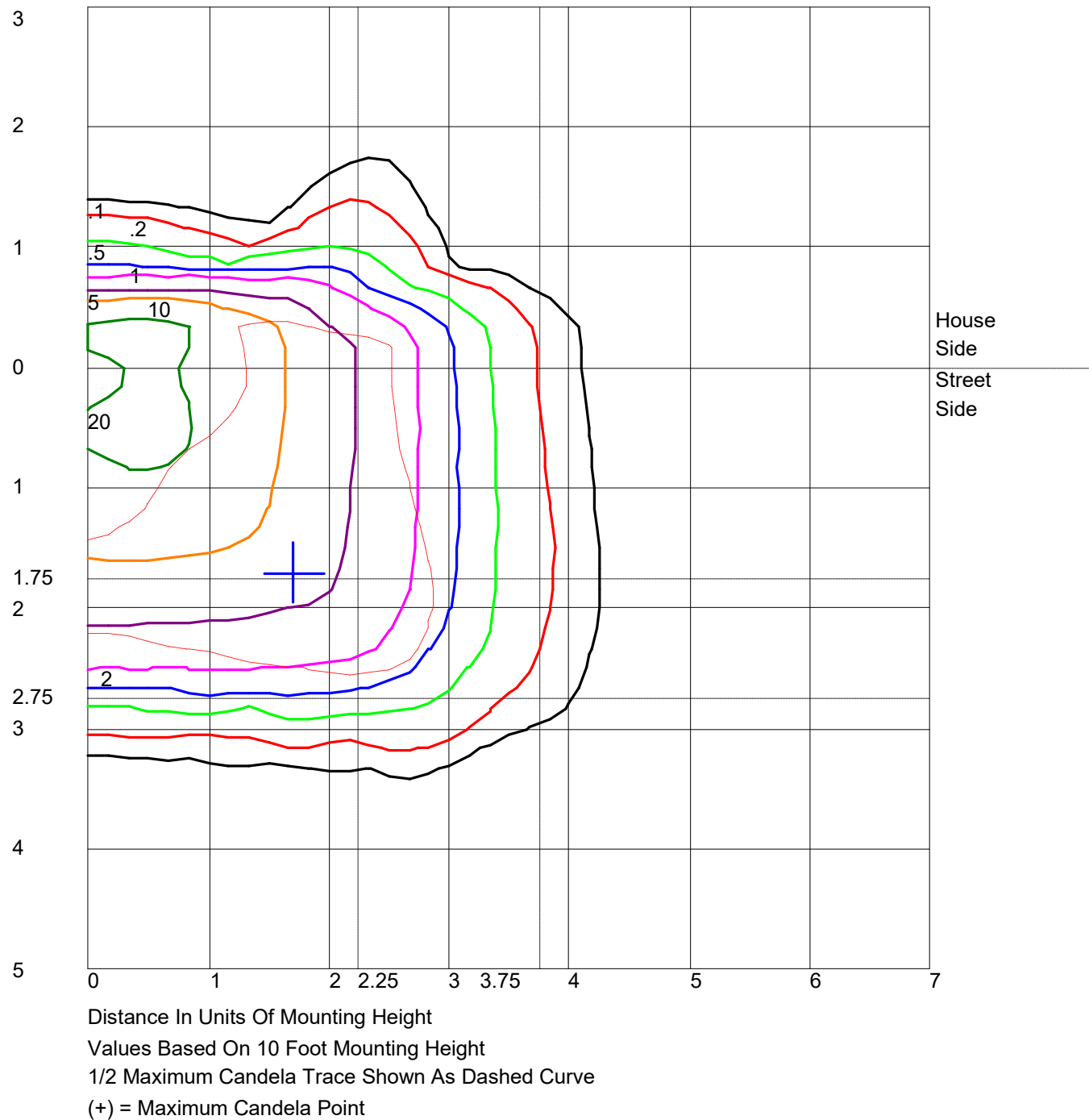
	Lumens	Percent Of Luminaire
Downward Street Side	13131.9	75.6
Downward House Side	4239.4	24.4
Downward Total	17371.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	17371.3	100.0

POLAR GRAPH



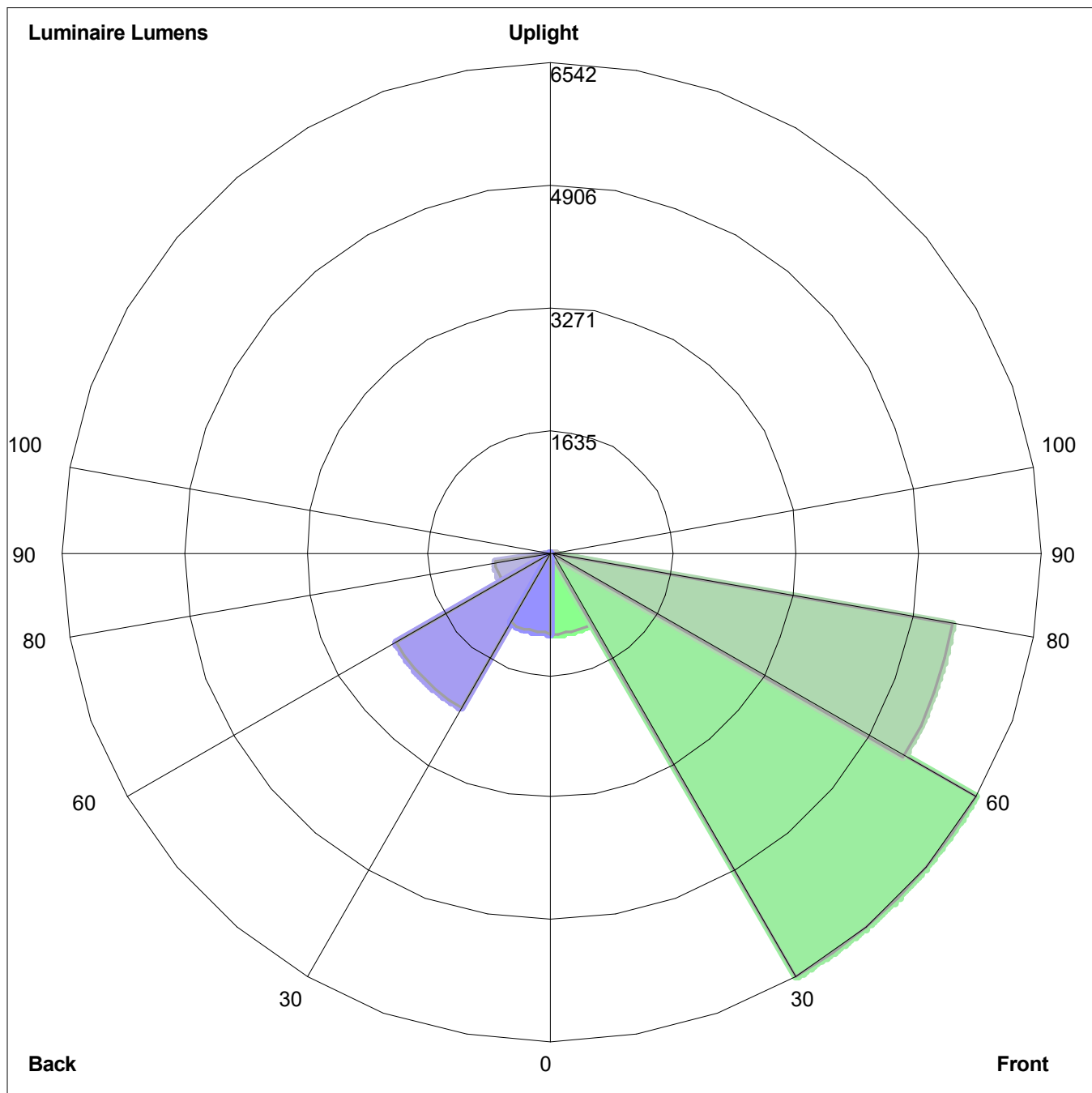
Maximum Candela = 12434 Located At Horizontal Angle = 45, Vertical Angle = 67.5  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=1088.6, Medium=6541.6, High=5442.8, Very High=58.9  
Back: Low=1076.5, Medium=2394.7, High=763.5, Very High=4.8  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3