



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-3-LED-25L-30-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

[MANUFAC] 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-30-IL

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21209
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	227.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	22811
Maximum Candela Angle	52.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	22811
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	1061 (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)	1087.5	N.A.	5.1
FM - Front-Medium (30-60)	10970.0	N.A.	51.7
FH - Front-High (60-80)	6855.3	N.A.	32.3
FVH - Front-Very High (80-90)	136.7	N.A.	0.6
BL - Back-Low (0-30)	605.7	N.A.	2.9
BM - Back-Medium (30-60)	1263.8	N.A.	6.0
BH - Back-High (60-80)	276.0	N.A.	1.3
BVH - Back-Very High (80-90)	14.4	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	21209.4	N.A.	100.0
BUG Rating	B2-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>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1942	1942	1942	1942	1942	1942	1942	1942	1942	1942
2.5	1917	1919	1920	1924	1919	1922	1919	1927	1933	1934
5.0	1889	1890	1895	1903	1907	1912	1912	1921	1927	1933
7.5	1837	1842	1854	1863	1883	1901	1904	1916	1928	1936
10.0	1799	1806	1819	1837	1858	1881	1900	1911	1938	1946
12.5	1792	1799	1810	1837	1861	1894	1915	1926	1963	1972
15.0	1830	1831	1849	1888	1927	1957	1977	1987	2010	2013
17.5	1935	1948	1964	2006	2058	2077	2100	2105	2106	2093
20.0	2145	2161	2173	2210	2258	2290	2303	2305	2283	2239
22.5	2473	2490	2518	2526	2573	2629	2624	2620	2578	2505
25.0	2888	2926	2945	2979	3038	3106	3093	3081	3021	2872
27.5	3422	3457	3497	3539	3625	3731	3737	3681	3590	3325
30.0	3981	4016	4088	4156	4316	4429	4431	4404	4216	3827
32.5	4543	4534	4643	4781	5023	5165	5161	5127	4851	4353
35.0	5112	5119	5224	5448	5721	5911	5907	5843	5517	4857
37.5	5779	5807	5923	6172	6426	6650	6647	6552	6124	5294
40.0	6613	6654	6755	6981	7175	7408	7371	7235	6651	5653
42.5	7616	7660	7773	7970	8139	8184	8098	7916	7106	6002
45.0	8918	8969	9055	9222	9246	9052	8820	8573	7553	6360
47.5	10542	10688	10933	10900	10743	10290	9670	9339	8070	6876
50.0	12061	12278	12578	12757	12518	11738	10812	10391	8823	7944
52.5	13233	13355	14253	15084	14901	13582	12430	11873	10302	9481
55.0	13917	14125	15128	16630	16971	15925	14868	14318	12546	11250
57.5	12703	12879	14645	17038	18549	18213	17878	17554	15714	12269
60.0	9626	9916	11949	15424	18859	20290	21071	20967	17436	12812
62.5	5536	5839	7776	11489	16965	21043	22811	22723	18314	13054
65.0	2276	2475	3621	6806	12715	19380	22455	22724	18467	12111
67.5	1243	1302	1736	3176	8250	14973	19953	20830	16799	9465
70.0	766	806	1004	1791	4182	9557	15122	16604	12604	6495
72.5	531	552	695	1207	2411	4930	8788	10103	7961	2838
75.0	361	376	493	949	1743	2469	3912	4850	3422	1111
77.5	255	264	357	753	1405	1469	1595	1869	1659	596
80.0	194	205	276	584	1061	924	768	780	824	370
82.5	149	161	226	470	701	555	402	396	419	274
85.0	112	118	177	362	450	286	216	218	223	186
87.5	73	78	123	228	171	99	83	80	80	84
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	1942	1942	1942	1942	1942	1942	1942	1942	1942	1942
2.5	1943	1954	1955	1955	1967	1974	1969	1970	1965	1964
5.0	1954	1959	1971	1971	1996	2014	2018	2019	2025	2025
7.5	1962	1966	1983	1994	2023	2052	2053	2043	2038	2026
10.0	1966	1980	1998	2017	2054	2070	2031	1948	1855	1773
12.5	1976	1983	2012	2037	2062	2021	1852	1643	1474	1337
15.0	2000	2006	2025	2051	2041	1837	1528	1290	1141	1054
17.5	2058	2038	2053	2063	1948	1570	1231	1080	980	917
20.0	2169	2125	2107	2080	1776	1320	1072	965	896	835
22.5	2363	2278	2203	2078	1569	1180	981	901	865	783
25.0	2620	2457	2331	2024	1391	1095	916	863	886	815
27.5	2910	2665	2467	1920	1278	1031	870	851	974	947

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CANDELA TABULATION - (Cont.)

30.0	3225	2892	2600	1797	1190	982	830	870	1132	1140
32.5	3551	3111	2719	1688	1093	949	808	903	1312	1312
35.0	3858	3303	2809	1604	1015	922	776	910	1512	1474
37.5	4106	3454	2878	1513	943	884	744	890	1711	1728
40.0	4311	3579	2928	1425	879	826	705	845	1904	1776
42.5	4556	3725	2972	1370	828	773	660	767	1982	1295
45.0	4884	3995	3110	1386	782	718	600	683	1618	897
47.5	5597	4481	3364	1447	739	651	527	578	895	660
50.0	6555	5135	3645	1503	671	536	424	480	494	518
52.5	7670	5796	3917	1547	561	373	292	337	323	430
55.0	8410	6150	3979	1507	414	248	209	220	226	355
57.5	8848	6234	3825	1347	303	198	165	156	170	290
60.0	9147	6060	3344	1128	258	175	137	121	134	242
62.5	8836	5278	2437	859	234	158	117	97	110	208
65.0	7464	4228	1704	610	207	136	100	78	91	175
67.5	5435	3038	1076	390	166	107	76	62	66	147
70.0	2847	1562	580	242	120	77	52	44	46	117
72.5	1061	674	335	170	85	53	36	30	28	85
75.0	519	391	256	142	63	36	23	19	15	57
77.5	296	258	209	126	47	26	14	13	9	36
80.0	222	196	176	108	35	17	12	10	7	22
82.5	161	146	143	83	22	13	11	8	6	13
85.0	103	96	102	52	13	12	11	8	5	8
87.5	47	40	50	21	10	10	9	7	4	5
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

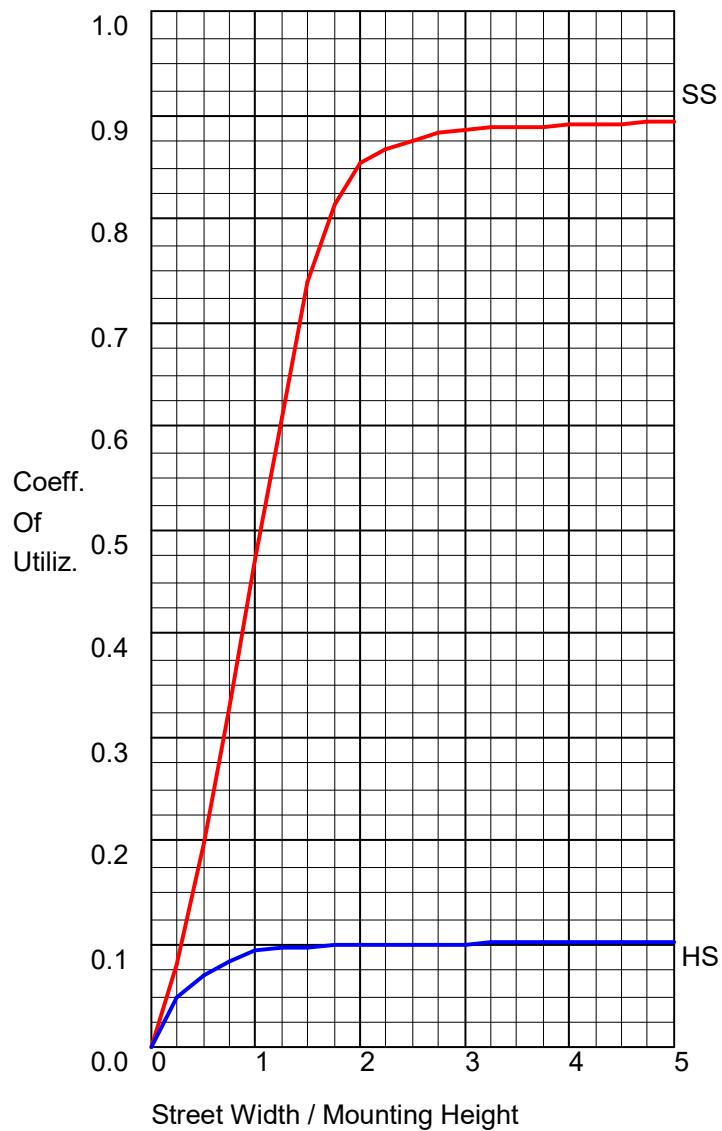
	<u>175.0</u>	<u>180.0</u>
0.0	1942	1942
2.5	1956	1967
5.0	2009	2019
7.5	1999	1991
10.0	1714	1683
12.5	1272	1257
15.0	1013	1005
17.5	881	878
20.0	796	791
22.5	735	727
25.0	735	723
27.5	799	775
30.0	912	862
32.5	968	908
35.0	1055	990
37.5	1055	945
40.0	812	710
42.5	576	510
45.0	441	400
47.5	366	323
50.0	327	272
52.5	304	234
55.0	290	218
57.5	292	224
60.0	304	246
62.5	314	272
65.0	314	291

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CANDELA TABULATION - (Cont.)

67.5	299	285
70.0	260	252
72.5	207	205
75.0	148	153
77.5	103	114
80.0	73	80
82.5	50	54
85.0	30	34
87.5	16	18
90.0	0	0

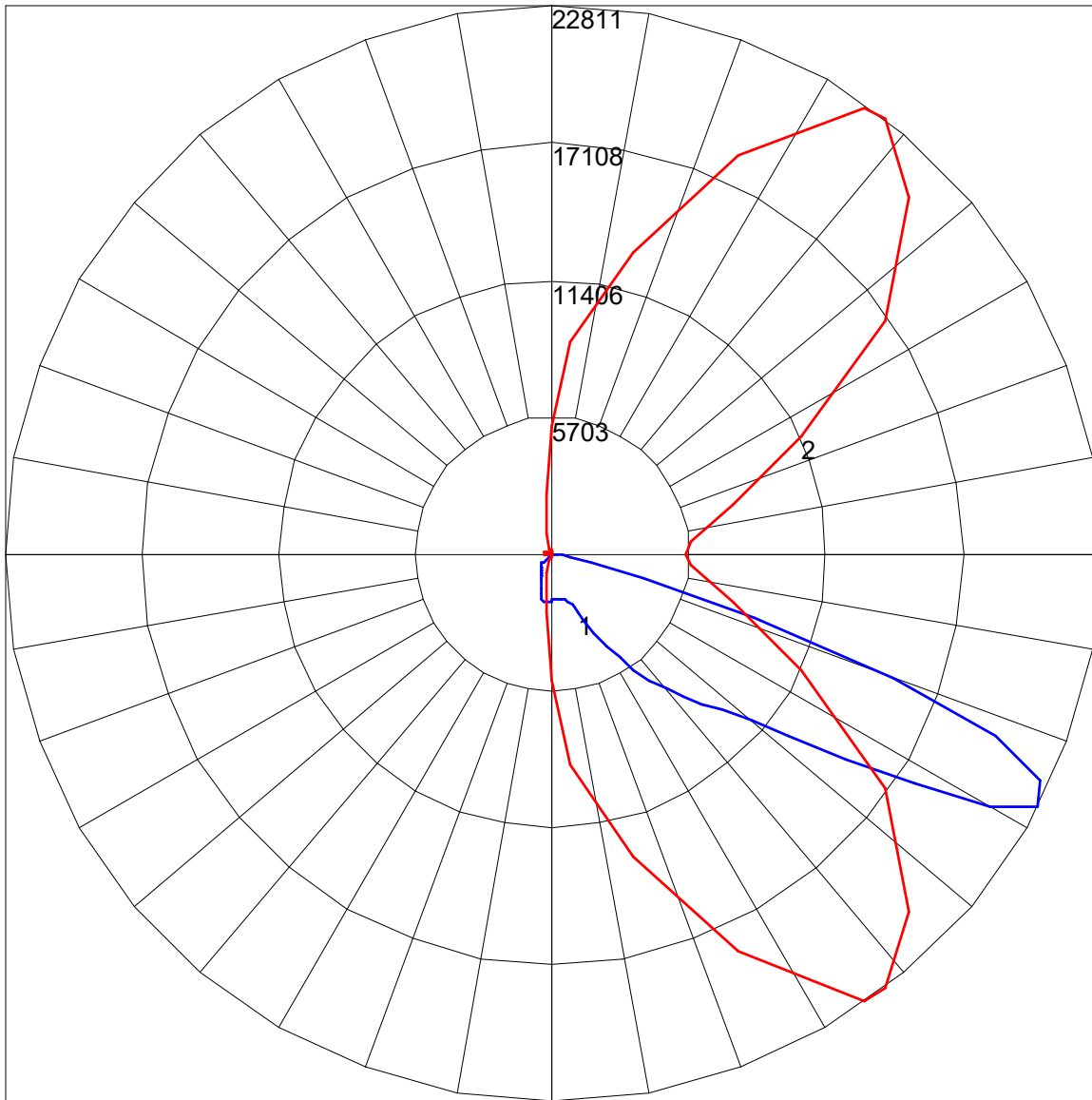
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

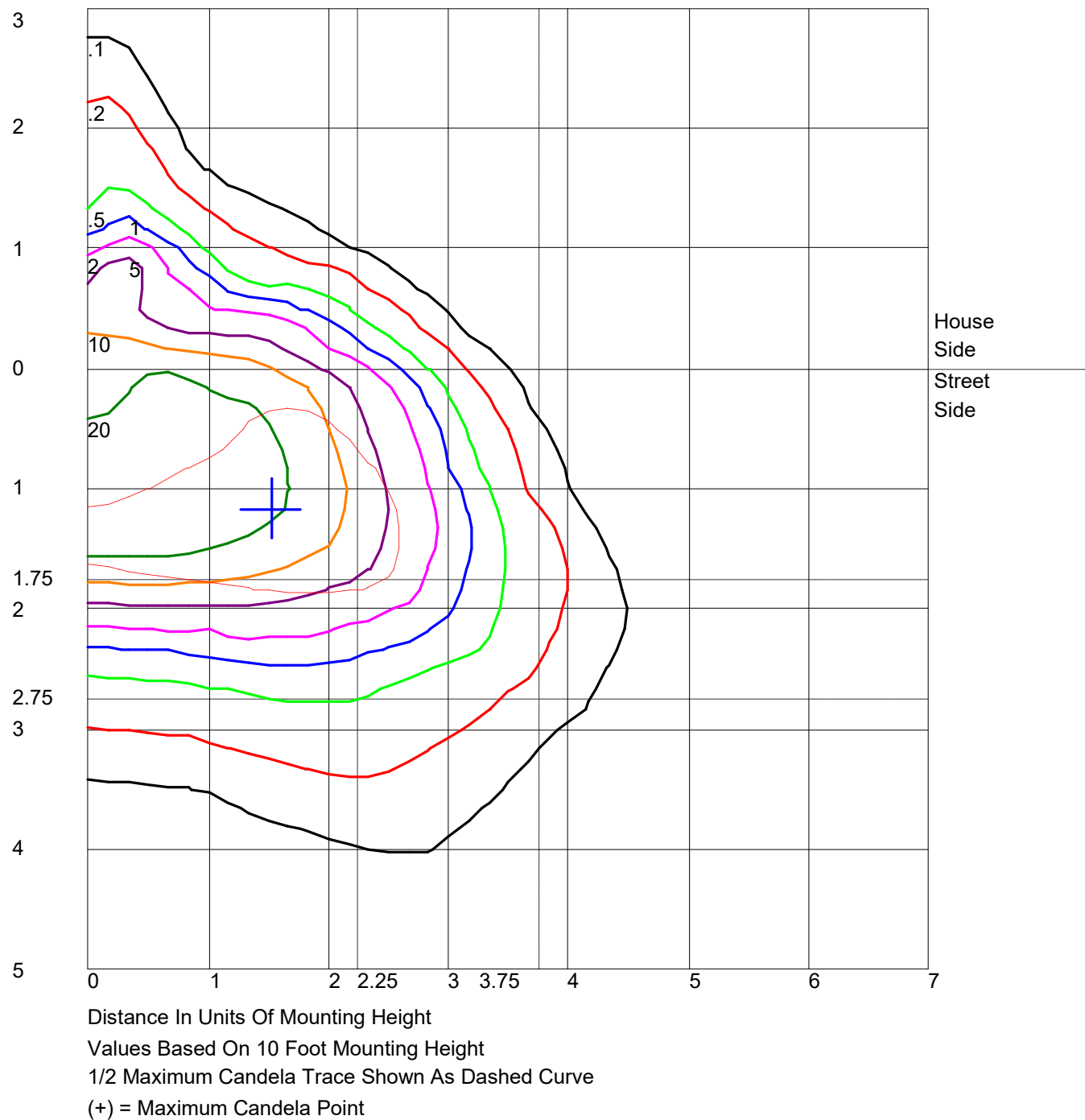
	Lumens	Percent Of Luminaire
Downward Street Side	19049.5	89.8
Downward House Side	2159.9	10.2
Downward Total	21209.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	21209.4	100.0

POLAR GRAPH

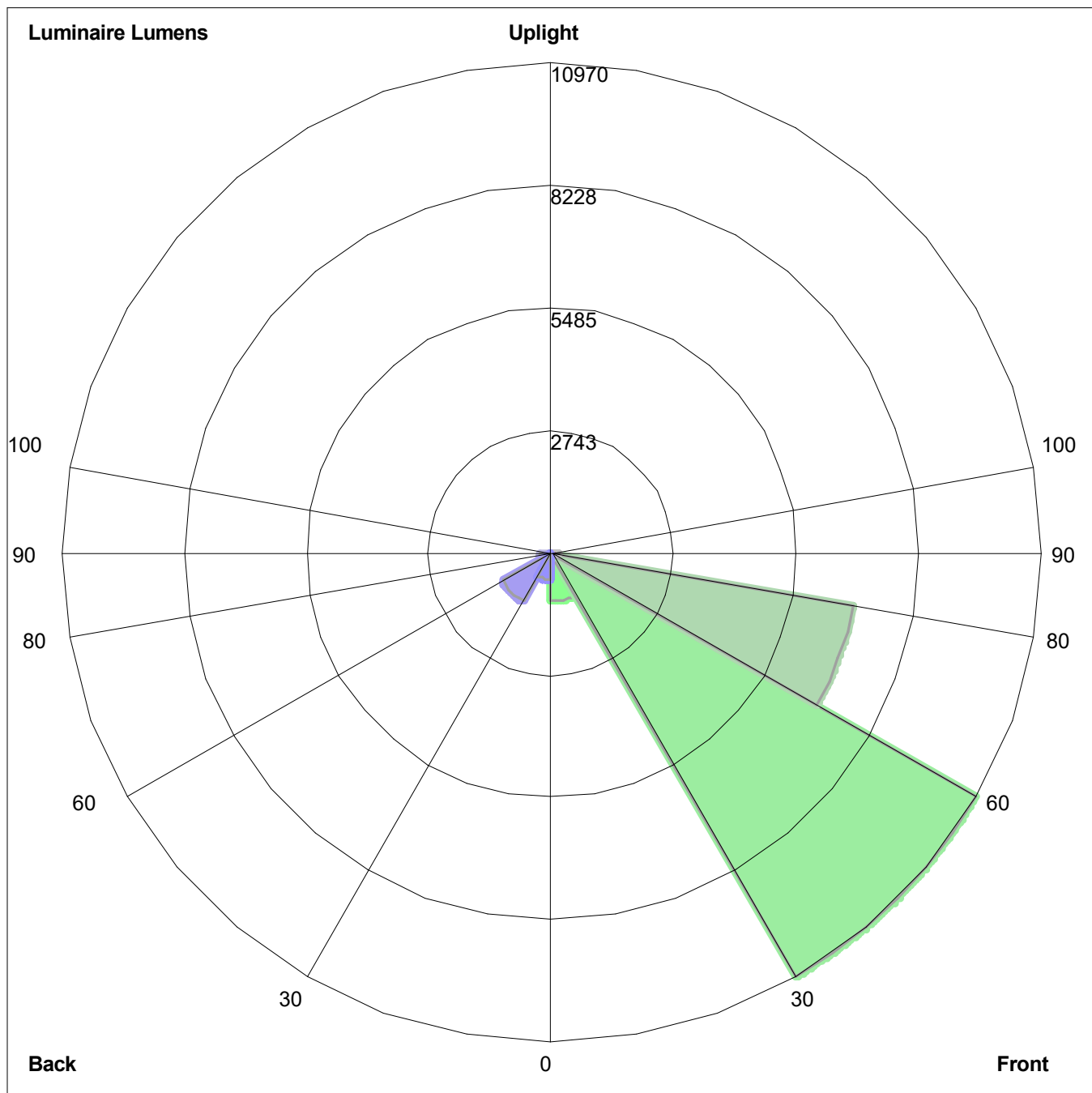


Maximum Candela = 22811 Located At Horizontal Angle = 52.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (52.5 - 232.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1087.5, Medium= 10970.0, High=6855.3, Very High=136.7
Back: Low=605.7, Medium=1263.8, High=276.0, Very High=14.4
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3