



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-10L-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11792

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 05/01/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-2-LED-10L-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8897
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	8105
Maximum Candela Angle	75H 65V
Maximum Candela (<90 Degrees Vertical)	8105
Maximum Candela Angle (<90 Degrees Vertical)	75H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	495 (5.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	866.4	N.A.	9.7
FM - Front-Medium (30-60)	4222.4	N.A.	47.5
FH - Front-High (60-80)	2093.7	N.A.	23.5
FVH - Front-Very High (80-90)	36.1	N.A.	0.4
BL - Back-Low (0-30)	570.2	N.A.	6.4
BM - Back-Medium (30-60)	849.8	N.A.	9.6
BH - Back-High (60-80)	255.2	N.A.	2.9
BVH - Back-Very High (80-90)	2.9	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	8896.7	N.A.	100.0
BUG Rating	B2-U0-G2		

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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>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>77.5</u>
0.0	1638	1638	1638	1638	1638	1638	1638	1638	1638	1638
2.5	1668	1667	1675	1673	1667	1665	1661	1650	1651	1634
5.0	1717	1702	1705	1709	1706	1700	1699	1685	1675	1657
7.5	1741	1737	1743	1743	1747	1741	1740	1724	1718	1697
10.0	1767	1764	1776	1780	1784	1789	1788	1778	1760	1747
12.5	1809	1803	1810	1815	1834	1840	1842	1837	1822	1809
15.0	1834	1830	1845	1861	1884	1897	1906	1902	1888	1884
17.5	1860	1868	1887	1903	1933	1968	1986	1983	1979	1973
20.0	1907	1920	1933	1963	1994	2038	2059	2084	2082	2062
22.5	1982	1990	2013	2040	2079	2112	2159	2194	2187	2176
25.0	2079	2085	2106	2130	2163	2206	2265	2308	2316	2307
27.5	2182	2187	2205	2248	2289	2329	2367	2438	2454	2443
30.0	2320	2328	2353	2378	2433	2473	2520	2578	2596	2597
32.5	2482	2488	2508	2555	2596	2647	2675	2723	2758	2769
35.0	2651	2649	2688	2742	2807	2845	2856	2882	2922	2937
37.5	2830	2832	2864	2934	3016	3070	3058	3070	3109	3139
40.0	3010	3017	3055	3144	3254	3321	3315	3294	3330	3364
42.5	3157	3179	3233	3355	3506	3604	3586	3540	3558	3659
45.0	3265	3284	3374	3513	3716	3890	3901	3821	3856	3922
47.5	3305	3295	3406	3612	3877	4172	4289	4173	4188	4251
50.0	3190	3176	3305	3568	3987	4418	4683	4640	4627	4682
52.5	2911	2918	3052	3341	3883	4600	5132	5170	5161	5222
55.0	2483	2484	2641	2964	3584	4594	5557	5731	5750	5827
57.5	1927	1940	2110	2416	3057	4341	5851	6358	6466	6547
60.0	1303	1317	1473	1778	2398	3792	5910	7024	7224	7286
62.5	716	740	859	1097	1615	3005	5667	7387	7799	7882
65.0	384	387	456	604	959	2163	4993	7196	8105	8034
67.5	235	241	262	361	570	1362	3843	6305	7604	7435
70.0	153	153	166	223	366	778	2589	4804	5825	5528
72.5	102	104	110	144	249	497	1516	3051	3444	3110
75.0	62	63	66	86	161	363	740	1821	1700	1402
77.5	34	35	36	45	92	252	390	1000	865	687
80.0	28	29	28	29	43	142	229	422	495	402
82.5	30	30	28	29	34	57	107	151	289	251
85.0	24	24	23	24	29	44	50	70	128	120
87.5	16	15	14	15	17	26	31	45	45	44
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	1638	1638	1638	1638	1638	1638	1638	1638	1638	1638
2.5	1652	1643	1644	1636	1627	1626	1620	1617	1618	1622
5.0	1674	1661	1651	1632	1624	1612	1602	1594	1580	1578
7.5	1700	1682	1683	1645	1627	1597	1579	1566	1554	1546
10.0	1745	1731	1706	1660	1632	1595	1569	1541	1520	1508
12.5	1802	1777	1757	1687	1641	1594	1542	1506	1490	1472
15.0	1868	1840	1804	1725	1659	1577	1519	1488	1463	1453
17.5	1947	1906	1876	1756	1662	1571	1500	1457	1420	1375
20.0	2044	1998	1948	1808	1673	1558	1476	1390	1227	1085
22.5	2149	2101	2038	1862	1679	1551	1416	1142	905	726
25.0	2266	2199	2119	1912	1695	1516	1190	841	558	390
27.5	2401	2332	2236	1965	1699	1411	912	509	333	270

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CANDELA TABULATION - (Cont.)

30.0	2551	2465	2344	2004	1707	1192	615	325	256	232
32.5	2714	2618	2472	2055	1657	937	383	259	226	210
35.0	2886	2776	2590	2097	1520	650	289	230	208	193
37.5	3084	2948	2743	2145	1314	415	246	208	189	172
40.0	3291	3148	2880	2176	1052	302	220	189	168	147
42.5	3547	3364	3055	2163	731	257	198	169	140	114
45.0	3814	3590	3233	2092	451	229	177	142	106	83
47.5	4131	3873	3407	1915	324	206	154	110	76	58
50.0	4536	4192	3625	1639	268	178	126	80	52	40
52.5	5003	4587	3847	1264	230	151	94	54	36	26
55.0	5562	5000	4040	836	204	123	67	36	22	17
57.5	6169	5418	4174	540	186	97	45	22	14	9
60.0	6727	5654	4179	412	174	73	28	13	5	3
62.5	7104	5687	3899	329	161	55	17	5	3	2
65.0	7026	5348	3268	264	136	40	8	3	2	1
67.5	6008	4287	2310	201	96	24	3	2	1	1
70.0	4029	2681	1272	144	61	14	2	1	1	1
72.5	1863	1305	593	103	35	5	1	1	1	0
75.0	716	573	280	65	19	3	1	1	0	0
77.5	370	330	159	38	8	2	1	0	0	0
80.0	236	206	99	16	3	1	0	0	0	0
82.5	155	110	56	5	2	0	0	0	1	0
85.0	87	55	23	2	0	0	0	1	1	0
87.5	30	15	1	0	0	0	0	1	1	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

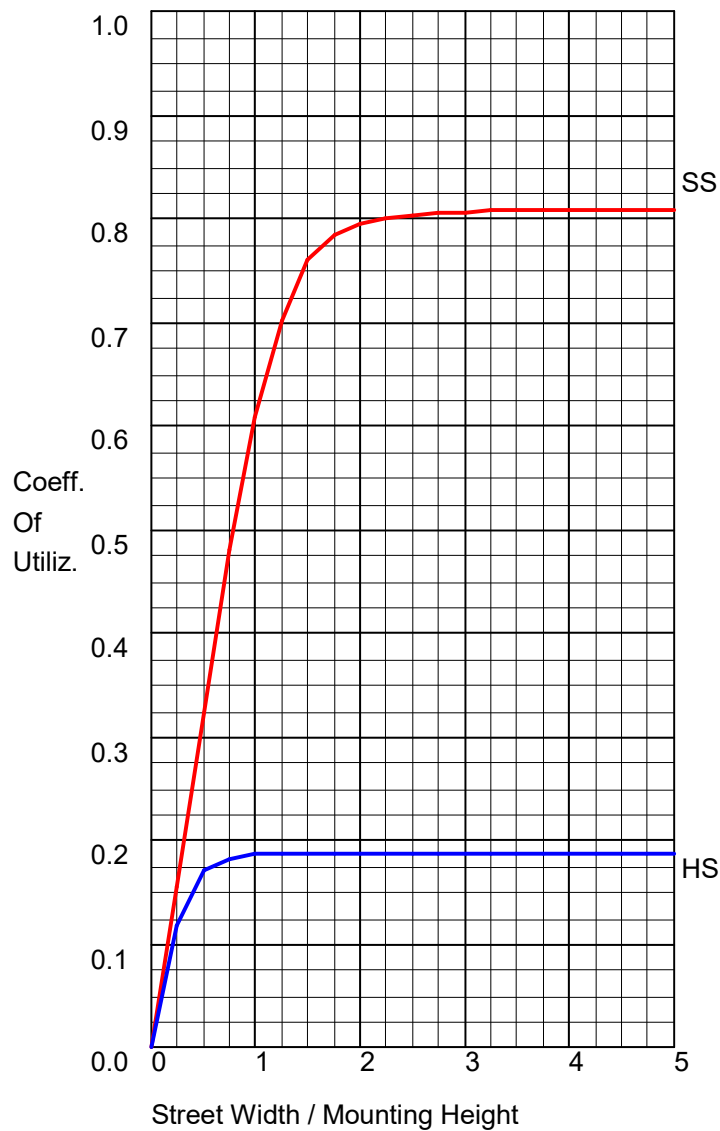
	<u>175.0</u>	<u>180.0</u>
0.0	1638	1638
2.5	1611	1611
5.0	1579	1574
7.5	1539	1531
10.0	1498	1493
12.5	1468	1468
15.0	1437	1432
17.5	1325	1311
20.0	996	985
22.5	617	606
25.0	340	336
27.5	252	249
30.0	222	220
32.5	202	199
35.0	183	183
37.5	163	161
40.0	136	134
42.5	104	101
45.0	73	71
47.5	50	49
50.0	34	34
52.5	23	22
55.0	15	14
57.5	7	6
60.0	2	2
62.5	1	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

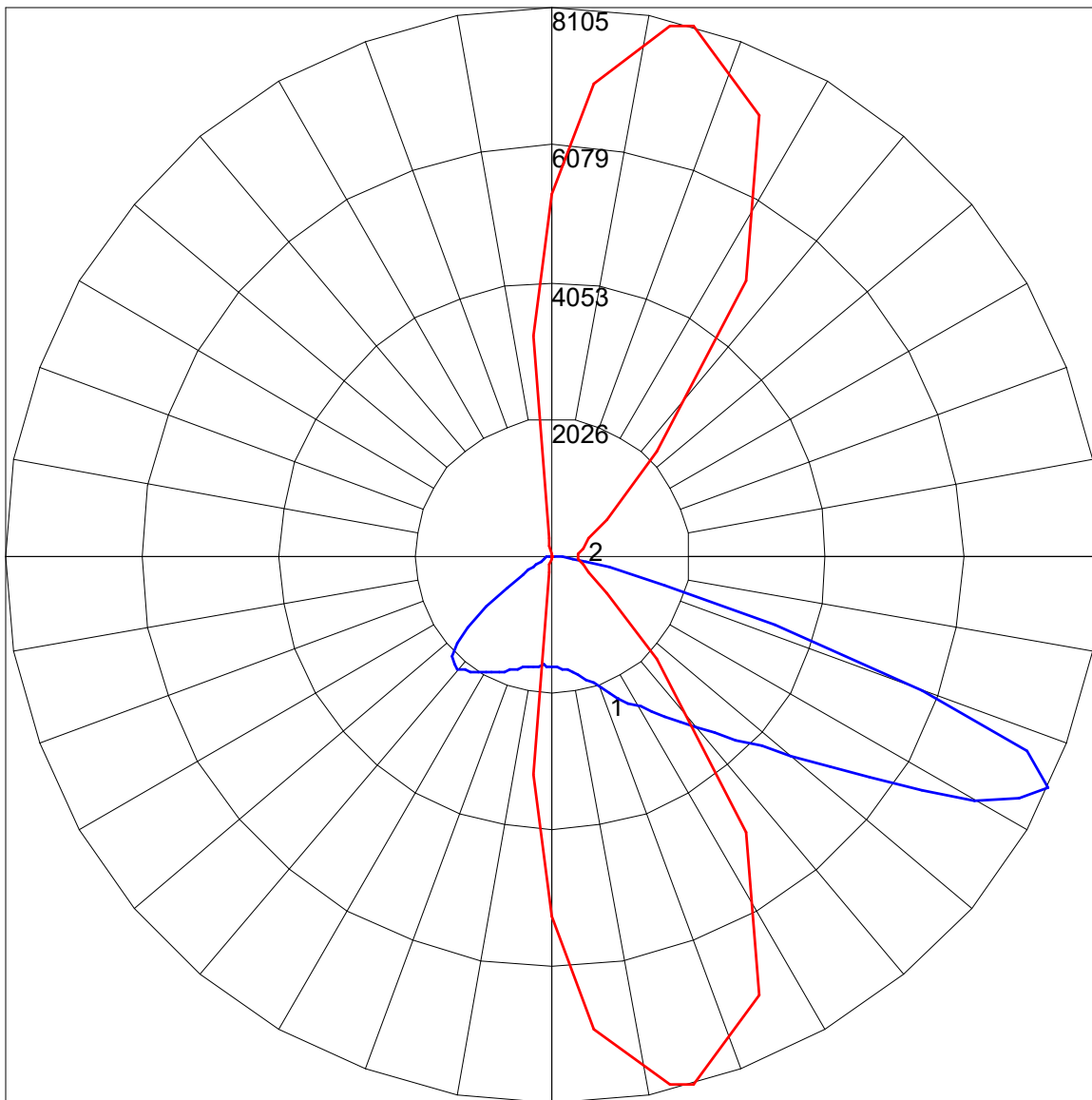
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

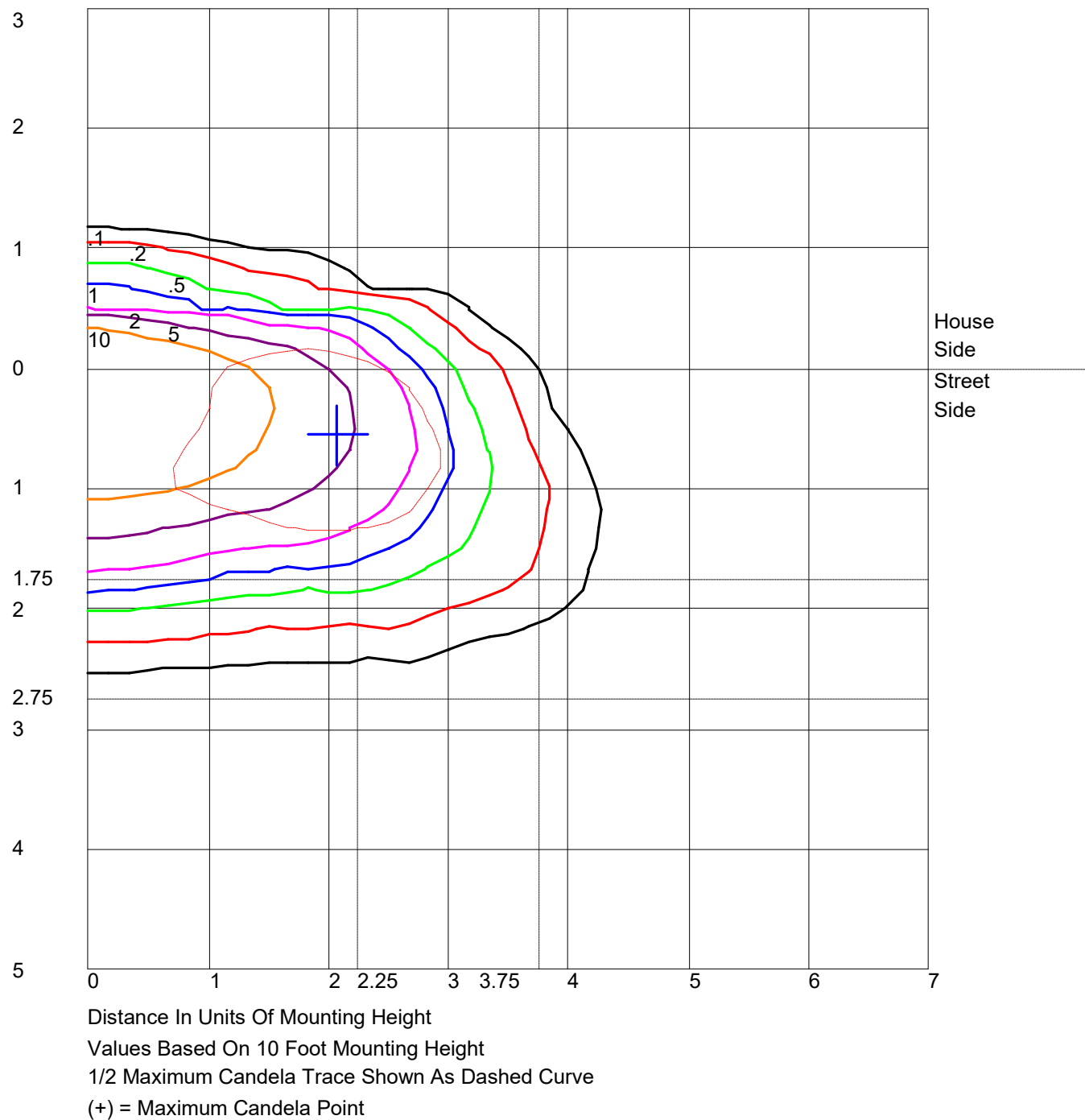
	Lumens	Percent Of Luminaire
Downward Street Side	7218.6	81.1
Downward House Side	1678.2	18.9
Downward Total	8896.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8896.8	100.0

POLAR GRAPH

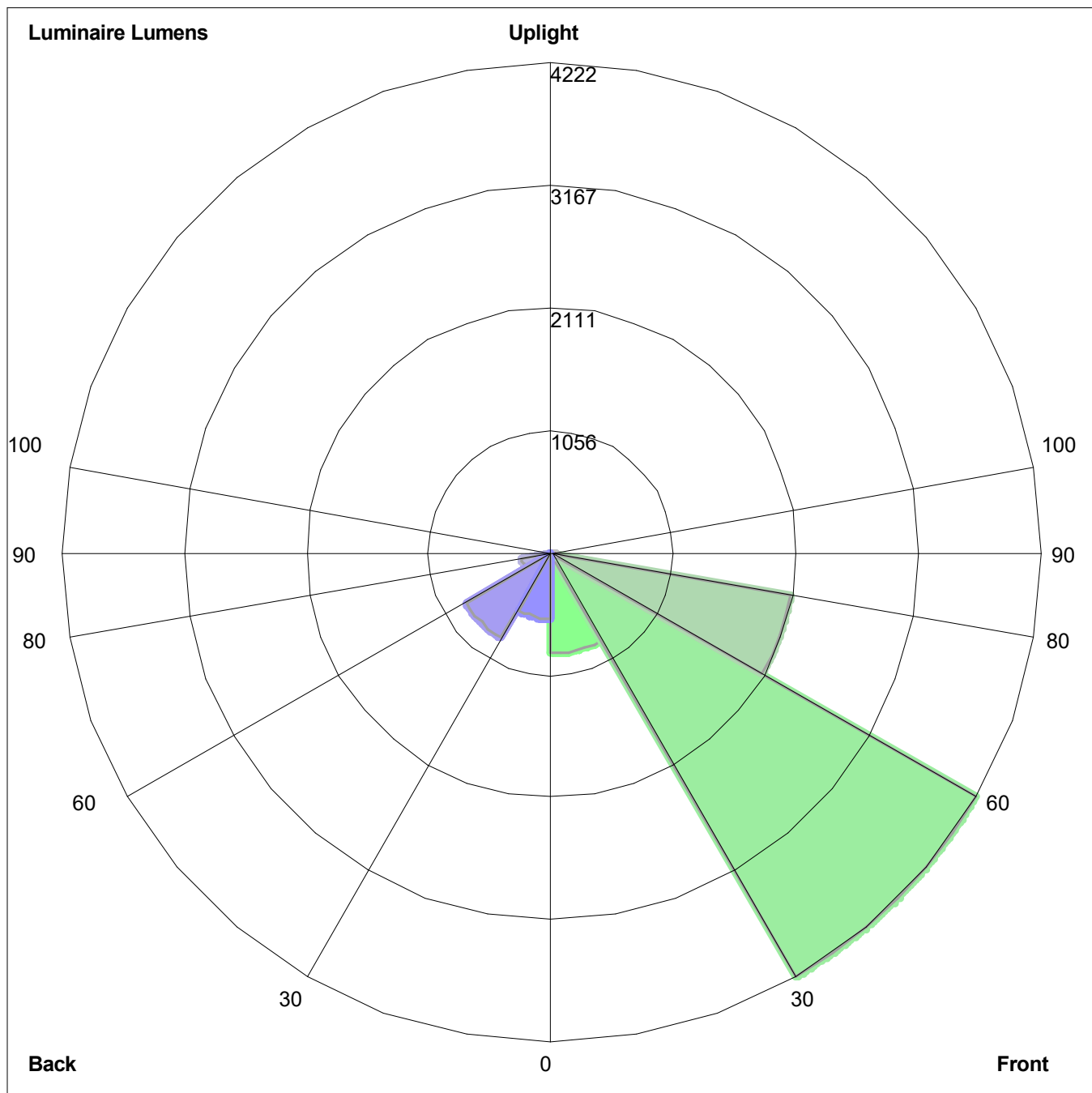


Maximum Candela = 8105 Located At Horizontal Angle = 75, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=866.4, Medium=4222.4, High=2093.7, Very High=36.1
Back: Low=570.2, Medium=849.8, High=255.2, Very High=2.9
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2