



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-SAX-FT-LED-10L-30-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11788

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/30/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-SAX-FT-LED-10L-30-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	7868
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	6121
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	6121
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	778 (9.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	715.6	N.A.	9.1
FM - Front-Medium (30-60)	3251.7	N.A.	41.3
FH - Front-High (60-80)	2804.6	N.A.	35.6
FVH - Front-Very High (80-90)	88.0	N.A.	1.1
BL - Back-Low (0-30)	366.4	N.A.	4.7
BM - Back-Medium (30-60)	541.3	N.A.	6.9
BH - Back-High (60-80)	98.0	N.A.	1.2
BVH - Back-Very High (80-90)	2.0	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	7867.6	N.A.	100.0
BUG Rating	B1-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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
2.5	1496	1482	1484	1483	1485	1467	1477	1476	1469	1470
5.0	1532	1518	1519	1522	1524	1503	1518	1513	1502	1496
7.5	1547	1530	1535	1540	1545	1527	1547	1544	1539	1527
10.0	1552	1539	1541	1550	1557	1550	1561	1575	1571	1564
12.5	1566	1549	1553	1560	1569	1569	1582	1602	1606	1600
15.0	1587	1578	1582	1590	1600	1593	1608	1627	1638	1637
17.5	1615	1615	1617	1629	1635	1627	1643	1657	1672	1679
20.0	1660	1657	1663	1671	1673	1668	1679	1693	1705	1720
22.5	1711	1706	1711	1715	1721	1716	1727	1735	1734	1752
25.0	1770	1766	1765	1771	1775	1776	1780	1784	1774	1790
27.5	1841	1833	1833	1841	1844	1845	1841	1838	1824	1830
30.0	1925	1919	1917	1923	1922	1924	1921	1897	1878	1866
32.5	2019	2018	2018	2020	2012	2017	2016	1975	1940	1902
35.0	2119	2124	2132	2131	2129	2136	2119	2079	2008	1952
37.5	2243	2243	2244	2246	2257	2268	2252	2205	2092	2012
40.0	2360	2360	2369	2378	2395	2422	2402	2343	2197	2086
42.5	2485	2488	2499	2531	2564	2604	2578	2516	2346	2192
45.0	2627	2634	2653	2716	2757	2806	2797	2737	2526	2317
47.5	2795	2794	2834	2921	2989	3059	3034	3006	2739	2464
50.0	2975	2978	3040	3156	3276	3357	3326	3307	2982	2629
52.5	3161	3164	3258	3440	3592	3709	3679	3648	3259	2821
55.0	3364	3376	3501	3724	3953	4108	4110	4021	3559	3027
57.5	3572	3619	3761	4041	4359	4569	4523	4428	3876	3183
60.0	3793	3866	4042	4381	4774	5012	4954	4831	4129	3271
62.5	3899	3973	4265	4751	5170	5493	5434	5160	4281	3202
65.0	3587	3676	4126	4930	5636	5985	5923	5317	4186	2940
67.5	2914	3006	3561	4569	5660	6121	6121	5240	3814	2387
70.0	1532	1622	2331	3684	4913	5554	5763	4811	3036	1722
72.5	606	646	975	1949	3517	4471	4672	3818	2148	1031
75.0	435	453	620	1001	1759	2625	2890	2623	1300	663
77.5	342	358	510	758	1080	1325	1391	1469	847	453
80.0	272	282	423	600	720	769	778	662	517	307
82.5	196	209	316	415	367	313	303	236	247	186
85.0	84	95	125	143	132	121	118	90	94	105
87.5	30	32	43	54	46	36	32	26	27	34
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	1450	1450	1450	1450	1450	1450	1450	1450	1450	1450
2.5	1460	1460	1458	1446	1446	1438	1429	1427	1414	1411
5.0	1477	1474	1462	1444	1431	1411	1386	1372	1361	1348
7.5	1500	1495	1476	1444	1409	1377	1341	1305	1267	1237
10.0	1537	1523	1499	1451	1392	1334	1252	1157	1079	1021
12.5	1577	1556	1529	1459	1369	1244	1093	952	836	754
15.0	1615	1592	1561	1463	1319	1103	888	715	606	556
17.5	1659	1632	1599	1462	1236	942	687	561	492	453
20.0	1703	1678	1630	1455	1126	764	568	472	421	394
22.5	1745	1715	1663	1428	993	639	495	419	378	357
25.0	1776	1749	1694	1372	852	564	447	384	356	344
27.5	1808	1781	1720	1301	743	517	416	364	345	340

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CANDELA TABULATION - (Cont.)

30.0	1841	1811	1741	1220	674	484	394	349	334	336
32.5	1871	1836	1762	1122	627	461	377	332	322	327
35.0	1898	1852	1775	1040	595	445	358	313	305	306
37.5	1928	1870	1782	985	570	426	335	287	279	267
40.0	1971	1902	1794	952	551	404	306	253	238	218
42.5	2030	1943	1807	940	529	371	269	215	188	166
45.0	2095	1984	1806	939	496	331	228	170	139	123
47.5	2188	2030	1808	951	444	277	179	129	101	90
50.0	2293	2102	1825	970	368	206	127	90	75	67
52.5	2403	2168	1838	971	274	138	86	63	53	50
55.0	2490	2195	1824	921	183	99	62	45	37	35
57.5	2541	2199	1793	792	128	75	48	34	26	21
60.0	2519	2140	1658	575	101	60	37	25	15	10
62.5	2365	1939	1386	348	85	48	29	16	8	5
65.0	2033	1585	987	195	69	38	22	11	5	2
67.5	1508	1114	591	122	52	29	16	8	4	2
70.0	974	674	317	77	36	20	12	6	4	2
72.5	531	398	175	50	24	13	8	5	3	0
75.0	366	261	103	34	15	8	7	4	1	0
77.5	245	171	75	20	8	6	5	2	0	0
80.0	138	97	51	12	5	4	3	1	0	0
82.5	91	64	31	5	4	3	2	1	0	0
85.0	57	35	11	3	2	3	2	1	0	0
87.5	21	7	2	1	1	2	1	1	0	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

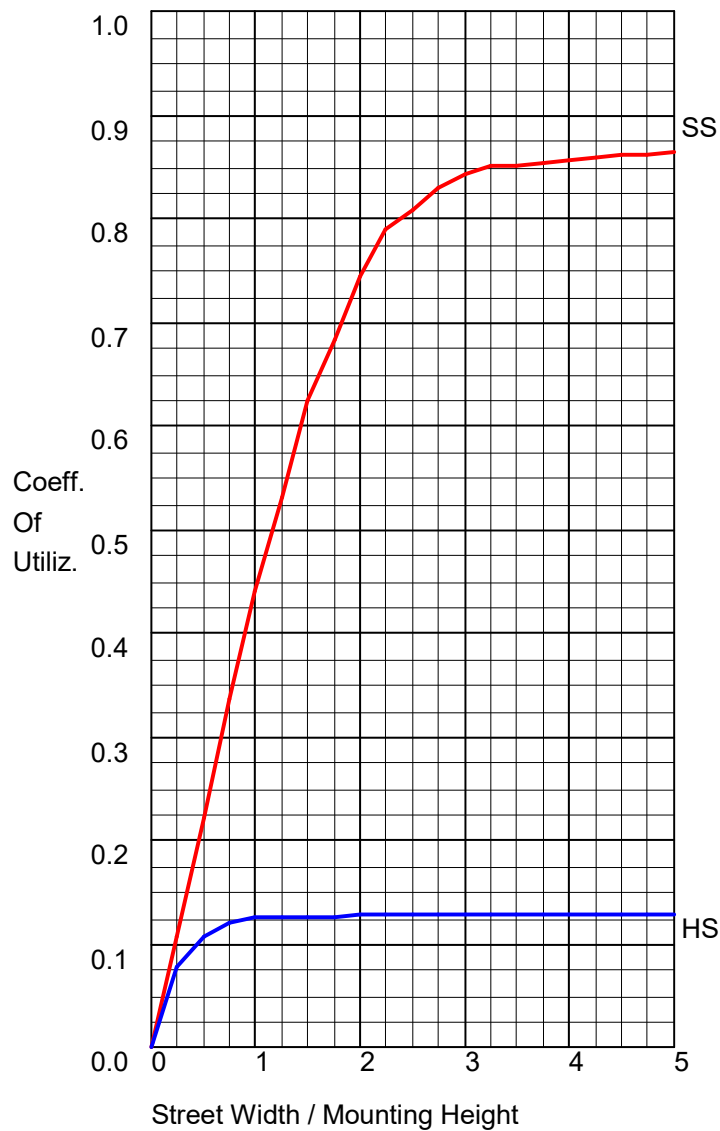
	<u>175.0</u>	<u>180.0</u>
0.0	1450	1450
2.5	1409	1401
5.0	1339	1330
7.5	1222	1209
10.0	978	981
12.5	702	702
15.0	526	526
17.5	434	433
20.0	381	379
22.5	349	348
25.0	340	341
27.5	336	338
30.0	334	334
32.5	324	324
35.0	293	289
37.5	247	243
40.0	194	194
42.5	149	146
45.0	108	106
47.5	83	82
50.0	65	65
52.5	49	49
55.0	34	34
57.5	20	20
60.0	10	9
62.5	5	4
65.0	1	1

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CANDELA TABULATION - (Cont.)

67.5	1	1
70.0	1	1
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

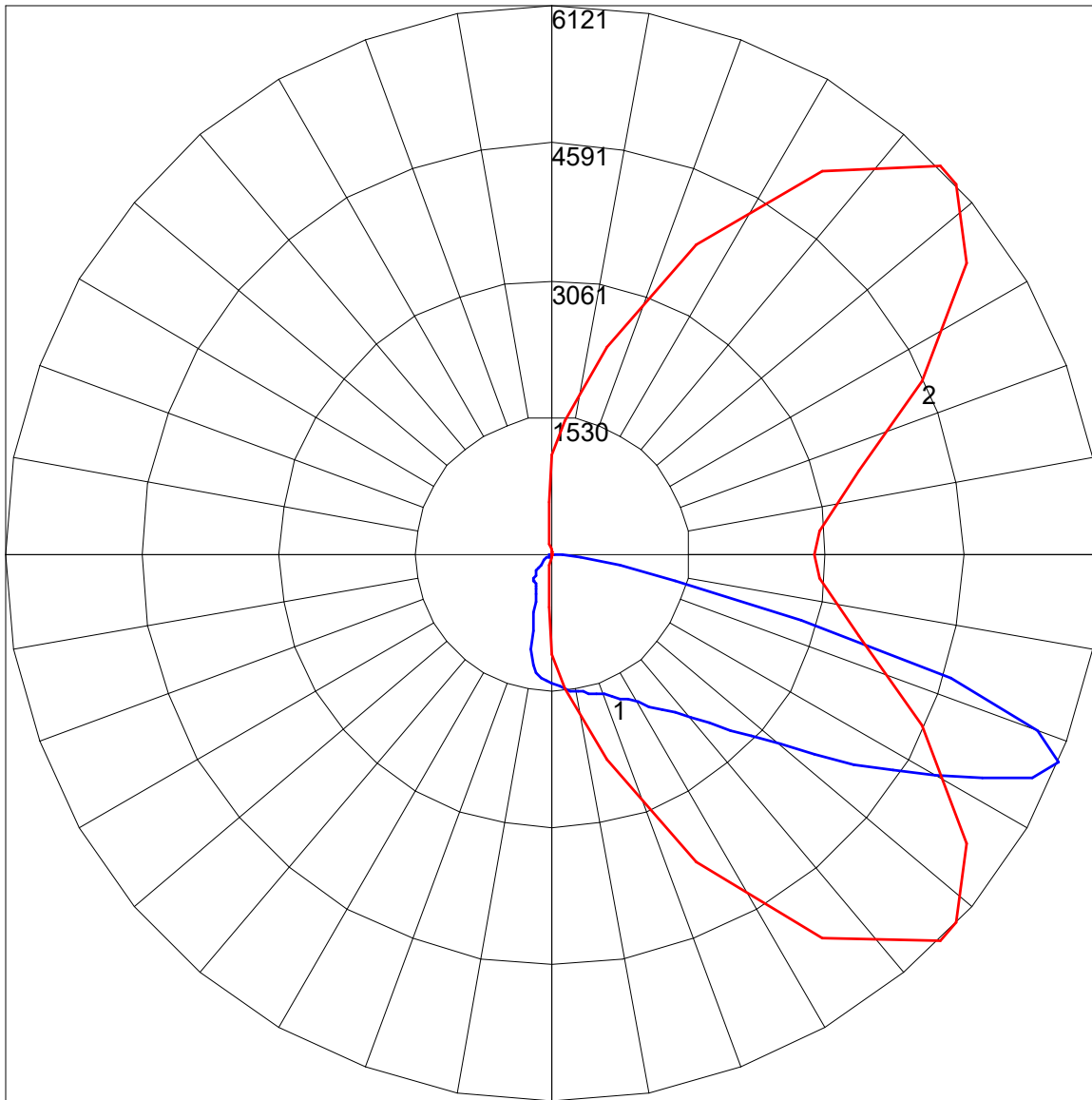
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

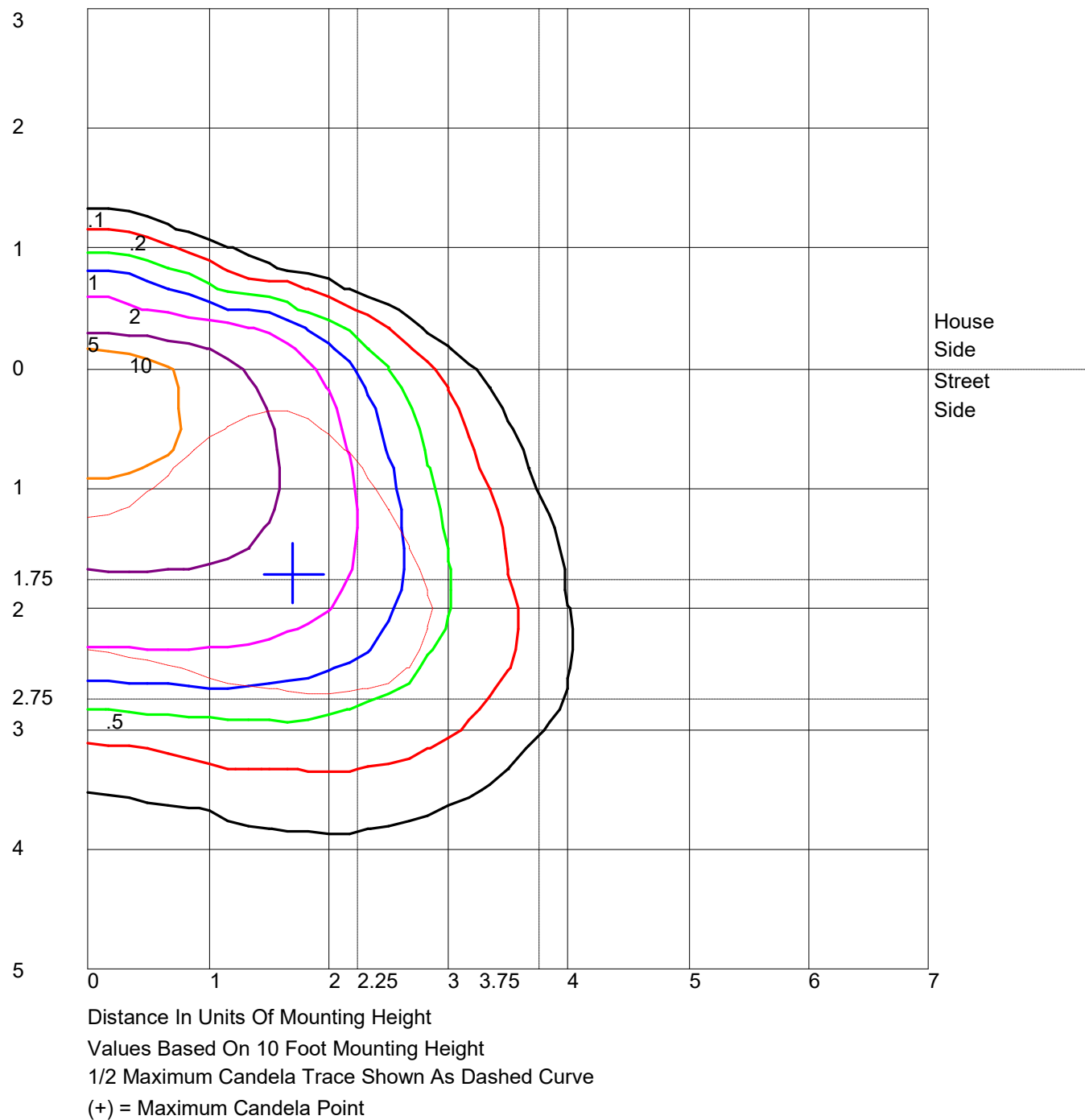
	Lumens	Percent Of Luminaire
Downward Street Side	6859.9	87.2
Downward House Side	1007.8	12.8
Downward Total	7867.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7867.7	100.0

POLAR GRAPH

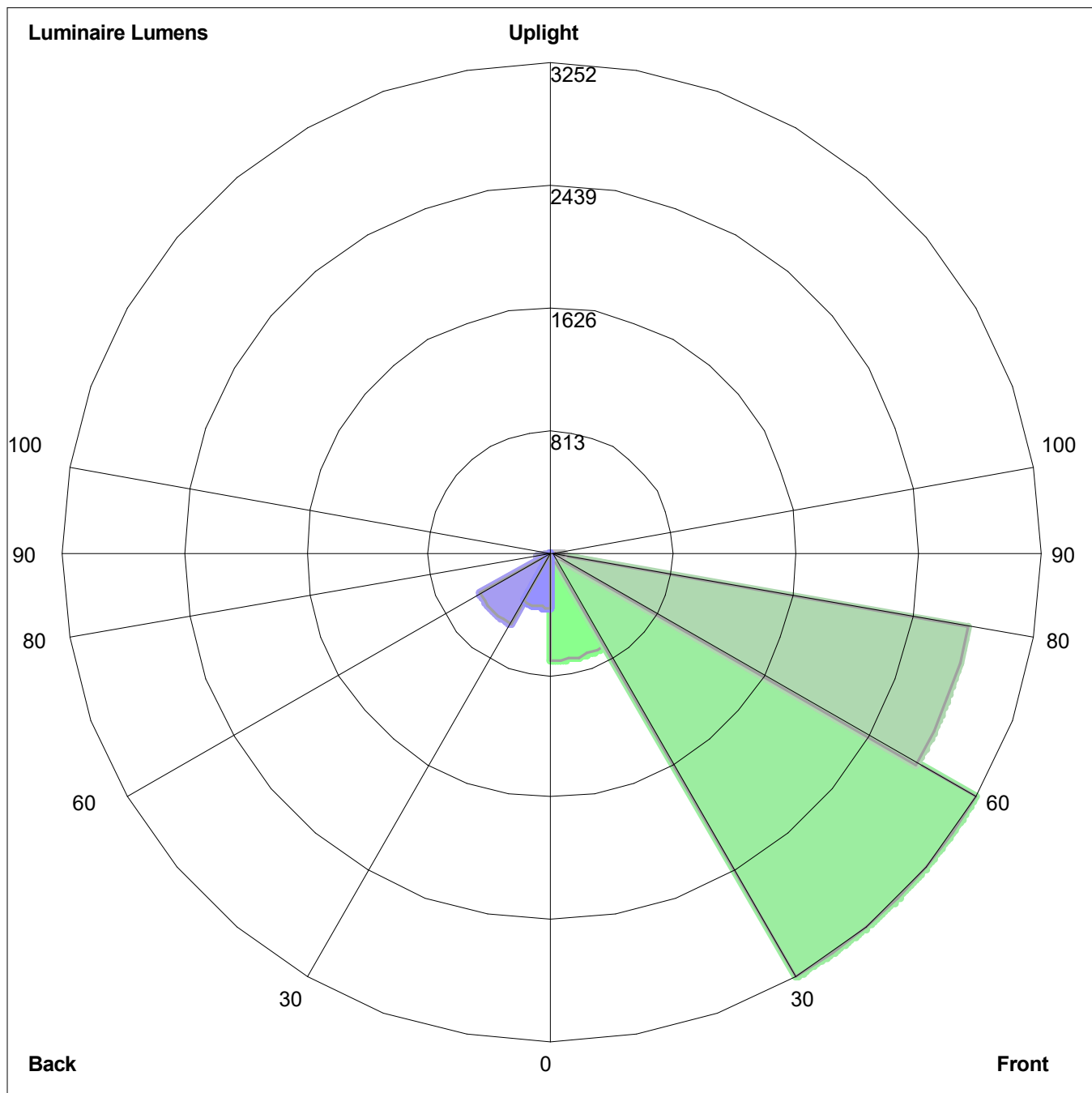


Maximum Candela = 6121 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=715.6, Medium=3251.7, High=2804.6, Very High=88.0
Back: Low=366.4, Medium=541.3, High=98.0, Very High=2.0
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G2