



IES ROAD REPORT
PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-10L-40-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
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-2-LED-10L-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8473
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	78
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7719
Maximum Candela Angle	75H 65V
Maximum Candela (<90 Degrees Vertical)	7719
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	471 (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)	825.1	N.A.	9.7
FM - Front-Medium (30-60)	4021.3	N.A.	47.5
FH - Front-High (60-80)	1994.0	N.A.	23.5
FVH - Front-Very High (80-90)	34.4	N.A.	0.4
BL - Back-Low (0-30)	543.1	N.A.	6.4
BM - Back-Medium (30-60)	809.4	N.A.	9.6
BH - Back-High (60-80)	243.0	N.A.	2.9
BVH - Back-Very High (80-90)	2.8	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	8473.1	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	1560	1560	1560	1560	1560	1560	1560	1560	1560	1560
2.5	1589	1588	1595	1593	1588	1586	1582	1571	1572	1556
5.0	1635	1621	1624	1628	1625	1619	1618	1605	1595	1578
7.5	1658	1654	1660	1660	1664	1658	1657	1642	1636	1616
10.0	1683	1680	1691	1695	1699	1704	1703	1693	1676	1664
12.5	1723	1717	1724	1729	1747	1752	1754	1750	1735	1723
15.0	1747	1743	1757	1772	1794	1807	1815	1811	1798	1794
17.5	1771	1779	1797	1812	1841	1874	1891	1889	1885	1879
20.0	1816	1829	1841	1870	1899	1941	1961	1985	1983	1964
22.5	1888	1895	1917	1943	1980	2011	2056	2090	2083	2072
25.0	1980	1986	2006	2029	2060	2101	2157	2198	2206	2197
27.5	2078	2083	2100	2141	2180	2218	2254	2322	2337	2327
30.0	2210	2217	2241	2265	2317	2355	2400	2455	2472	2473
32.5	2364	2370	2389	2433	2472	2521	2548	2593	2627	2637
35.0	2525	2523	2560	2611	2673	2710	2720	2745	2783	2797
37.5	2695	2697	2728	2794	2872	2924	2912	2924	2961	2990
40.0	2867	2873	2910	2994	3099	3163	3157	3137	3171	3204
42.5	3007	3028	3079	3195	3339	3432	3415	3371	3389	3485
45.0	3110	3128	3213	3346	3539	3705	3715	3639	3672	3735
47.5	3148	3138	3244	3440	3692	3973	4085	3974	3989	4049
50.0	3038	3025	3148	3398	3797	4208	4460	4419	4407	4459
52.5	2772	2779	2907	3182	3698	4381	4888	4924	4915	4973
55.0	2365	2366	2515	2823	3413	4375	5292	5458	5476	5550
57.5	1835	1848	2010	2301	2911	4134	5572	6055	6158	6235
60.0	1241	1254	1403	1693	2284	3611	5629	6690	6880	6939
62.5	682	705	818	1045	1538	2862	5397	7035	7428	7507
65.0	366	369	434	575	913	2060	4755	6853	7719	7651
67.5	224	230	250	344	543	1297	3660	6005	7242	7081
70.0	146	146	158	212	349	741	2466	4575	5548	5265
72.5	97	99	105	137	237	473	1444	2906	3280	2962
75.0	59	60	63	82	153	346	705	1734	1619	1335
77.5	32	33	34	43	88	240	371	952	824	654
80.0	27	28	27	28	41	135	218	402	471	383
82.5	29	29	27	28	32	54	102	144	275	239
85.0	23	23	22	23	28	42	48	67	122	114
87.5	15	14	13	14	16	25	30	43	43	42
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	1560	1560	1560	1560	1560	1560	1560	1560	1560	1560
2.5	1573	1565	1566	1558	1550	1549	1543	1540	1541	1545
5.0	1594	1582	1572	1554	1547	1535	1526	1518	1505	1503
7.5	1619	1602	1603	1567	1550	1521	1504	1491	1480	1472
10.0	1662	1649	1625	1581	1554	1519	1494	1468	1448	1436
12.5	1716	1692	1673	1607	1563	1518	1469	1434	1419	1402
15.0	1779	1752	1718	1643	1580	1502	1447	1417	1393	1384
17.5	1854	1815	1787	1672	1583	1496	1429	1388	1352	1310
20.0	1947	1903	1855	1722	1593	1484	1406	1324	1169	1033
22.5	2047	2001	1941	1773	1599	1477	1349	1088	862	691
25.0	2158	2094	2018	1821	1614	1444	1133	801	531	371
27.5	2287	2221	2130	1871	1618	1344	869	485	317	257

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CANDELA TABULATION - (Cont.)

30.0	2430	2348	2232	1909	1626	1135	586	310	244	221
32.5	2585	2493	2354	1957	1578	892	365	247	215	200
35.0	2749	2644	2467	1997	1448	619	275	219	198	184
37.5	2937	2808	2612	2043	1251	395	234	198	180	164
40.0	3134	2998	2743	2072	1002	288	210	180	160	140
42.5	3378	3204	2910	2060	696	245	189	161	133	109
45.0	3632	3419	3079	1992	430	218	169	135	101	79
47.5	3934	3689	3245	1824	309	196	147	105	72	55
50.0	4320	3992	3452	1561	255	170	120	76	50	38
52.5	4765	4369	3664	1204	219	144	90	51	34	25
55.0	5297	4762	3848	796	194	117	64	34	21	16
57.5	5875	5160	3975	514	177	92	43	21	13	9
60.0	6407	5385	3980	392	166	70	27	12	5	3
62.5	6766	5416	3713	313	153	52	16	5	3	2
65.0	6691	5093	3112	251	130	38	8	3	2	1
67.5	5722	4083	2200	191	91	23	3	2	1	1
70.0	3837	2553	1211	137	58	13	2	1	1	1
72.5	1774	1243	565	98	33	5	1	1	1	0
75.0	682	546	267	62	18	3	1	1	0	0
77.5	352	314	151	36	8	2	1	0	0	0
80.0	225	196	94	15	3	1	0	0	0	0
82.5	148	105	53	5	2	0	0	0	1	0
85.0	83	52	22	2	0	0	0	1	1	0
87.5	29	14	1	0	0	0	0	1	1	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

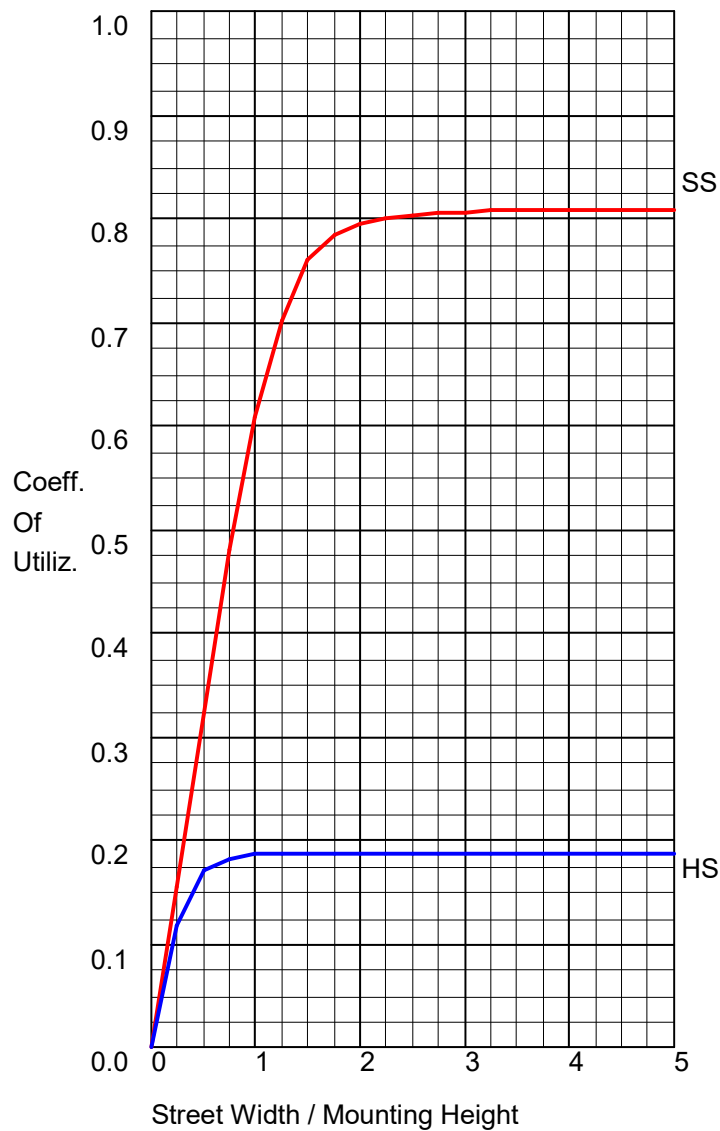
	<u>175.0</u>	<u>180.0</u>
0.0	1560	1560
2.5	1534	1534
5.0	1504	1499
7.5	1466	1458
10.0	1427	1422
12.5	1398	1398
15.0	1369	1364
17.5	1262	1249
20.0	949	938
22.5	588	577
25.0	324	320
27.5	240	237
30.0	211	210
32.5	192	190
35.0	174	174
37.5	155	153
40.0	130	128
42.5	99	96
45.0	70	68
47.5	48	47
50.0	32	32
52.5	22	21
55.0	14	13
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

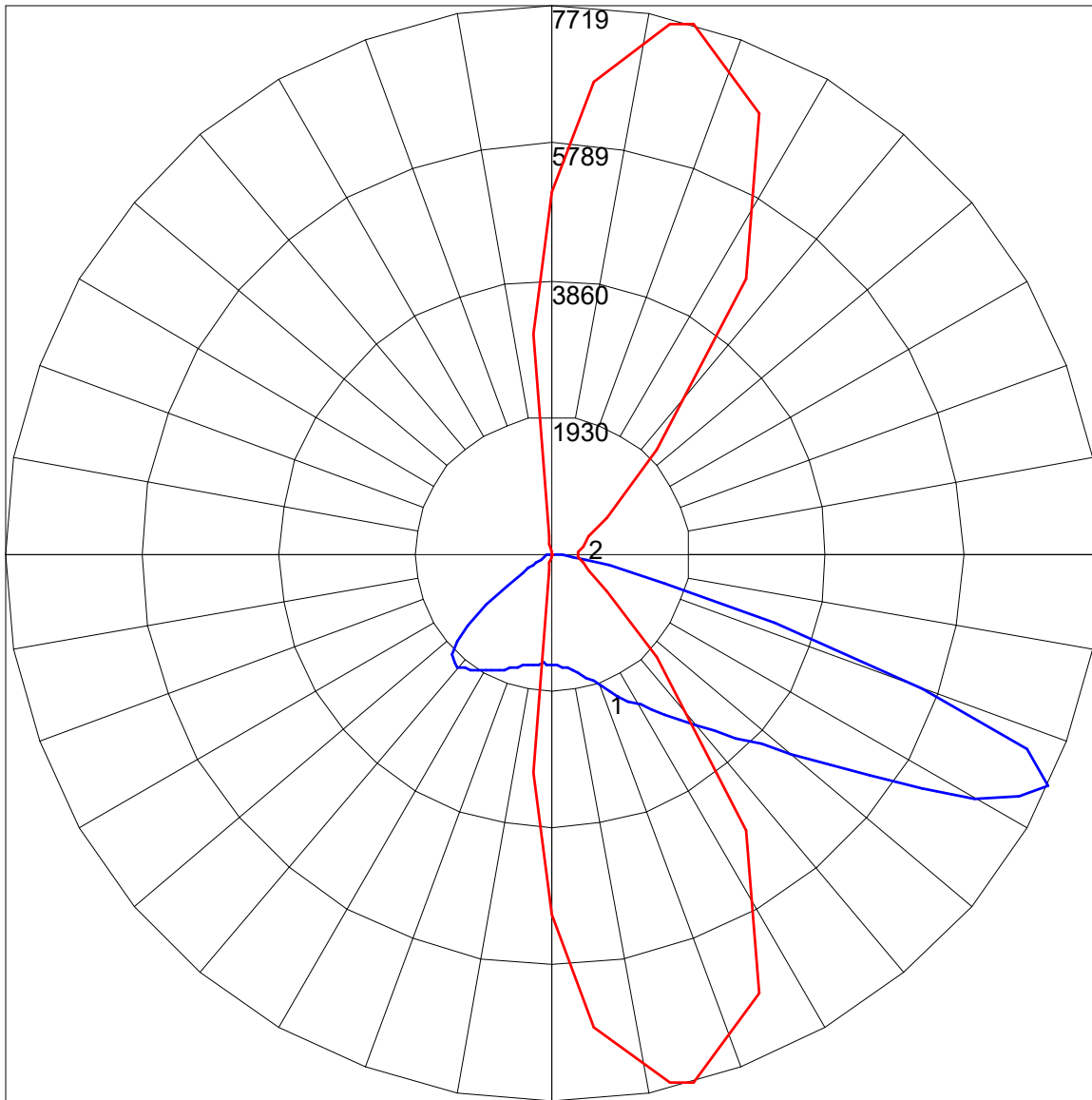
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

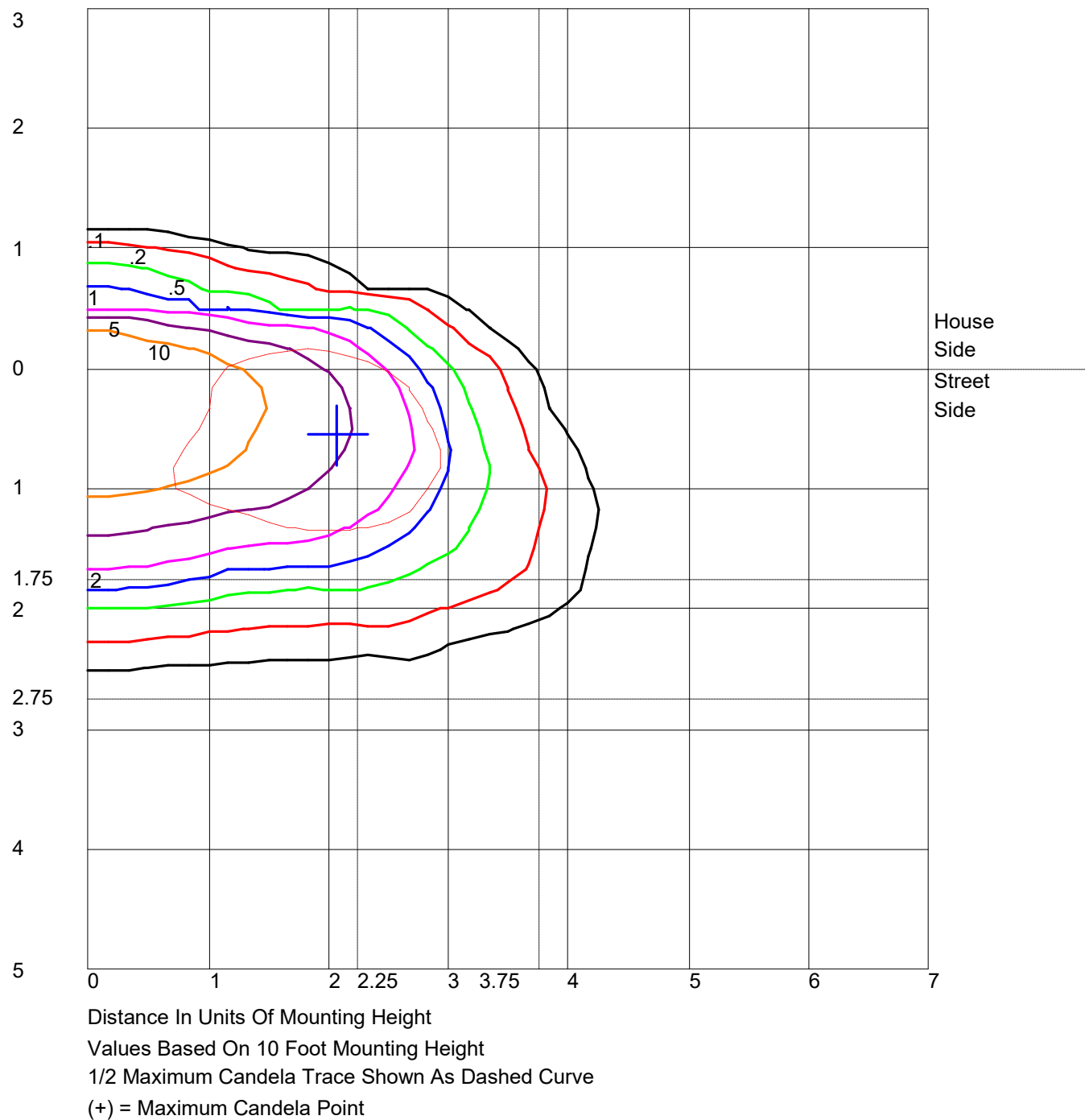
	Lumens	Percent Of Luminaire
Downward Street Side	6874.9	81.1
Downward House Side	1598.3	18.9
Downward Total	8473.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8473.2	100.0

POLAR GRAPH

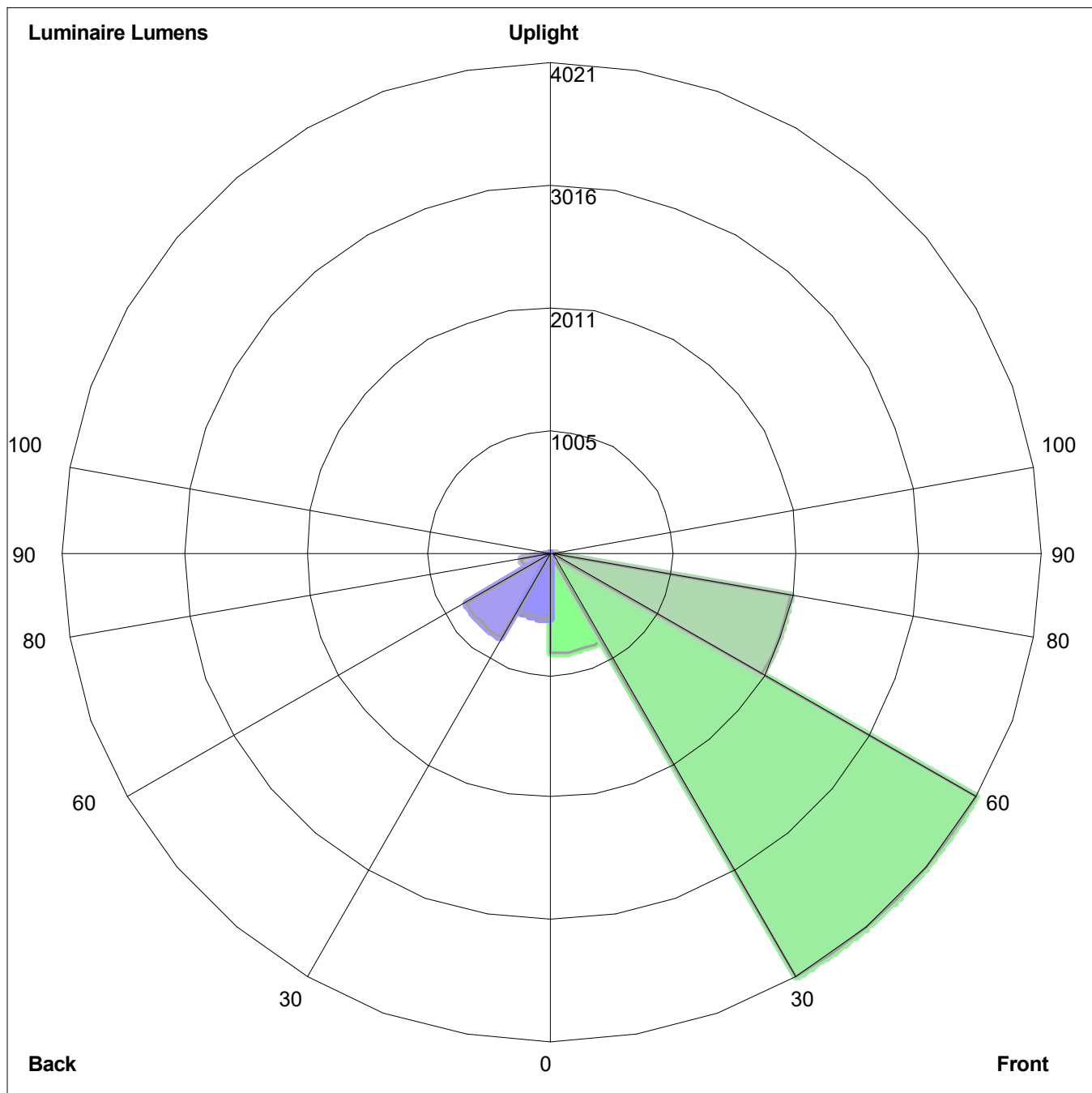


Maximum Candela = 7719 Located At Horizontal Angle = 75, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=825.1, Medium=4021.3, High= 1994.0, Very High=34.4
Back: Low=543.1, Medium=809.4, High=243.0, Very High=2.8
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2