



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11799
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/05/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-2-LED-10L-50
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11735
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	151
Total Luminaire Watts	77.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9696
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	9696
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	721 (6.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	827.7	N.A.	7.1
FM - Front-Medium (30-60)	4316.4	N.A.	36.8
FH - Front-High (60-80)	2469.4	N.A.	21.0
FVH - Front-Very High (80-90)	59.6	N.A.	0.5
BL - Back-Low (0-30)	768.0	N.A.	6.5
BM - Back-Medium (30-60)	2435.5	N.A.	20.8
BH - Back-High (60-80)	787.0	N.A.	6.7
BVH - Back-Very High (80-90)	71.1	N.A.	0.6
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	11734.7	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	1571	1571	1571	1571	1571	1571	1571	1571	1571	1571
2.5	1598	1604	1603	1601	1602	1599	1591	1581	1577	1575
5.0	1643	1648	1648	1644	1645	1639	1629	1615	1602	1598
7.5	1685	1689	1692	1689	1692	1685	1674	1658	1638	1631
10.0	1724	1728	1731	1732	1736	1736	1726	1709	1682	1676
12.5	1752	1757	1763	1771	1787	1791	1789	1772	1747	1732
15.0	1765	1770	1785	1804	1833	1851	1862	1847	1823	1805
17.5	1772	1780	1798	1829	1876	1916	1940	1946	1913	1899
20.0	1792	1795	1819	1862	1923	1986	2028	2051	2023	2008
22.5	1811	1821	1851	1902	1972	2054	2133	2168	2149	2133
25.0	1848	1860	1889	1949	2031	2128	2233	2296	2291	2273
27.5	1906	1914	1946	2008	2103	2208	2337	2440	2453	2435
30.0	1989	1995	2026	2093	2188	2303	2448	2584	2623	2608
32.5	2108	2120	2152	2217	2307	2417	2565	2731	2807	2794
35.0	2287	2297	2328	2382	2464	2560	2696	2879	2997	2995
37.5	2525	2538	2579	2620	2670	2748	2850	3029	3194	3207
40.0	2816	2831	2877	2911	2946	2994	3029	3183	3409	3435
42.5	3122	3156	3195	3239	3297	3303	3264	3352	3653	3681
45.0	3449	3448	3504	3575	3666	3704	3582	3550	3913	3964
47.5	3618	3628	3716	3847	4026	4153	4007	3815	4223	4323
50.0	3646	3660	3780	3992	4315	4650	4622	4165	4616	4754
52.5	3453	3459	3621	3904	4401	5066	5299	4704	5131	5326
55.0	3016	3018	3207	3540	4165	5246	6075	5432	5838	6044
57.5	2327	2331	2533	2882	3567	5048	6781	6348	6697	6937
60.0	1624	1619	1730	2003	2635	4313	7203	7405	7736	7983
62.5	1091	1080	1092	1259	1690	3071	7127	8275	8826	9032
65.0	762	743	751	848	1047	1829	6233	8491	9617	9696
67.5	525	537	549	621	753	1077	4429	7765	9476	9422
70.0	384	396	408	468	586	760	2580	5883	7618	7142
72.5	254	268	275	342	455	584	1398	3731	4499	3967
75.0	150	157	153	206	310	470	805	2194	2049	1588
77.5	111	123	104	128	186	334	509	1268	960	752
80.0	103	118	91	92	126	238	300	721	540	433
82.5	113	118	78	65	85	171	166	402	329	272
85.0	101	103	60	44	50	101	103	127	156	132
87.5	57	55	35	23	22	40	37	35	36	35
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	1571	1571	1571	1571	1571	1571	1571	1571	1571	1571
2.5	1577	1574	1573	1562	1561	1561	1557	1553	1552	1547
5.0	1595	1589	1580	1564	1553	1545	1537	1527	1525	1519
7.5	1624	1612	1600	1572	1552	1536	1524	1515	1515	1514
10.0	1661	1643	1624	1587	1556	1534	1525	1524	1533	1538
12.5	1709	1684	1660	1605	1561	1541	1543	1557	1580	1600
15.0	1772	1738	1704	1630	1572	1560	1575	1610	1655	1689
17.5	1851	1805	1761	1658	1591	1590	1625	1684	1752	1801
20.0	1944	1885	1831	1697	1619	1631	1692	1776	1866	1928
22.5	2055	1981	1911	1742	1659	1683	1774	1881	1993	2064
25.0	2183	2097	2003	1795	1705	1751	1873	1996	2122	2205
27.5	2330	2228	2119	1863	1761	1833	1978	2113	2250	2341

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CANDELA TABULATION - (Cont.)

30.0	2493	2380	2240	1935	1831	1919	2078	2224	2361	2451
32.5	2679	2540	2370	2014	1902	2007	2167	2310	2449	2527
35.0	2874	2718	2507	2092	1977	2085	2235	2365	2490	2559
37.5	3099	2907	2653	2166	2047	2143	2267	2380	2476	2522
40.0	3334	3112	2814	2241	2113	2178	2262	2344	2394	2410
42.5	3600	3337	2976	2311	2158	2175	2214	2249	2255	2228
45.0	3904	3587	3146	2373	2178	2138	2127	2118	2070	2012
47.5	4259	3870	3325	2430	2171	2063	2014	1958	1860	1789
50.0	4684	4189	3513	2469	2144	1965	1878	1783	1652	1582
52.5	5193	4554	3699	2507	2088	1844	1723	1616	1471	1407
55.0	5823	4963	3876	2507	2011	1708	1576	1468	1307	1222
57.5	6575	5371	3986	2459	1904	1549	1428	1316	1119	1051
60.0	7271	5686	3970	2336	1748	1367	1263	1141	943	882
62.5	7788	5661	3681	2092	1526	1161	1062	958	762	711
65.0	7662	5116	3031	1714	1249	943	852	769	607	549
67.5	6504	3916	2130	1265	974	724	671	606	481	470
70.0	4336	2438	1306	846	730	565	542	477	425	419
72.5	2051	1243	817	593	560	447	434	411	365	328
75.0	785	624	541	430	432	372	373	327	224	185
77.5	429	391	381	344	344	318	274	191	155	153
80.0	290	240	238	281	282	238	161	144	164	180
82.5	178	131	128	225	222	134	122	139	268	268
85.0	94	66	68	157	90	90	102	149	268	252
87.5	29	20	22	27	28	37	45	71	128	108
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Angles **Horizontal Angles**

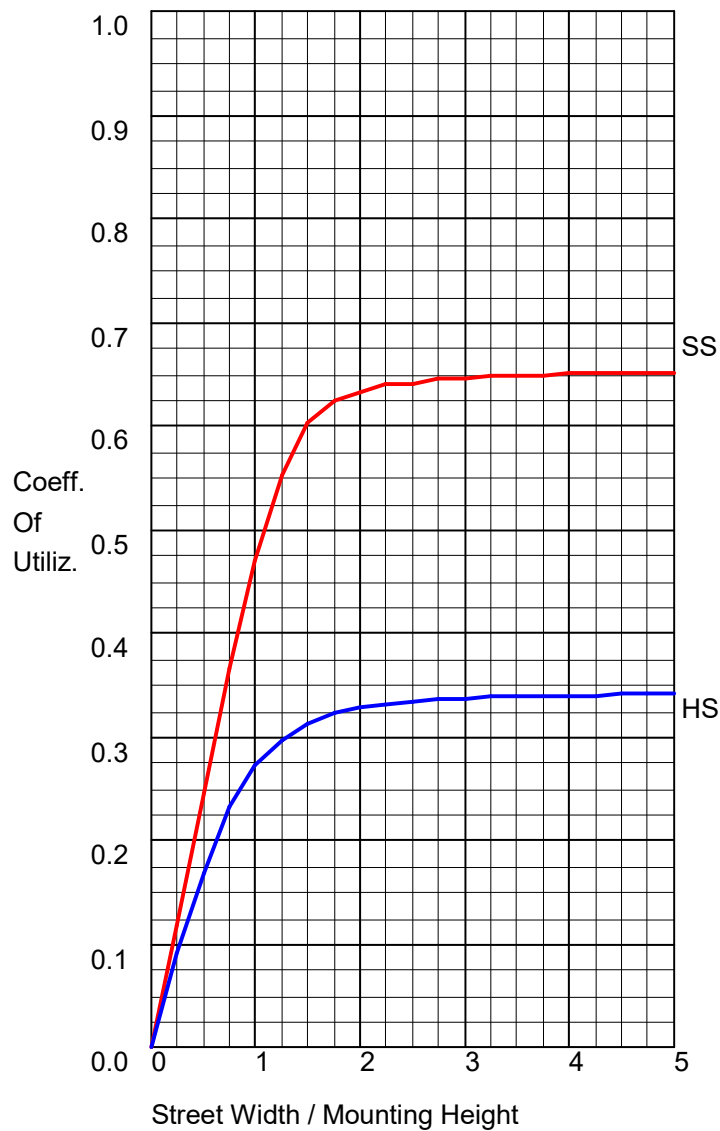
	<u>175.0</u>	<u>180.0</u>
0.0	1571	1571
2.5	1550	1548
5.0	1519	1519
7.5	1512	1512
10.0	1540	1539
12.5	1605	1604
15.0	1701	1703
17.5	1827	1825
20.0	1962	1975
22.5	2105	2120
25.0	2248	2260
27.5	2388	2392
30.0	2495	2503
32.5	2563	2575
35.0	2578	2593
37.5	2525	2537
40.0	2399	2400
42.5	2212	2209
45.0	1991	1989
47.5	1749	1734
50.0	1541	1528
52.5	1352	1349
55.0	1165	1159
57.5	1004	997
60.0	831	823
62.5	669	663
65.0	537	538

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CANDELA TABULATION - (Cont.)

67.5	483	486
70.0	444	454
72.5	338	355
75.0	218	253
77.5	183	216
80.0	209	229
82.5	282	286
85.0	261	261
87.5	56	76
90.0	0	0

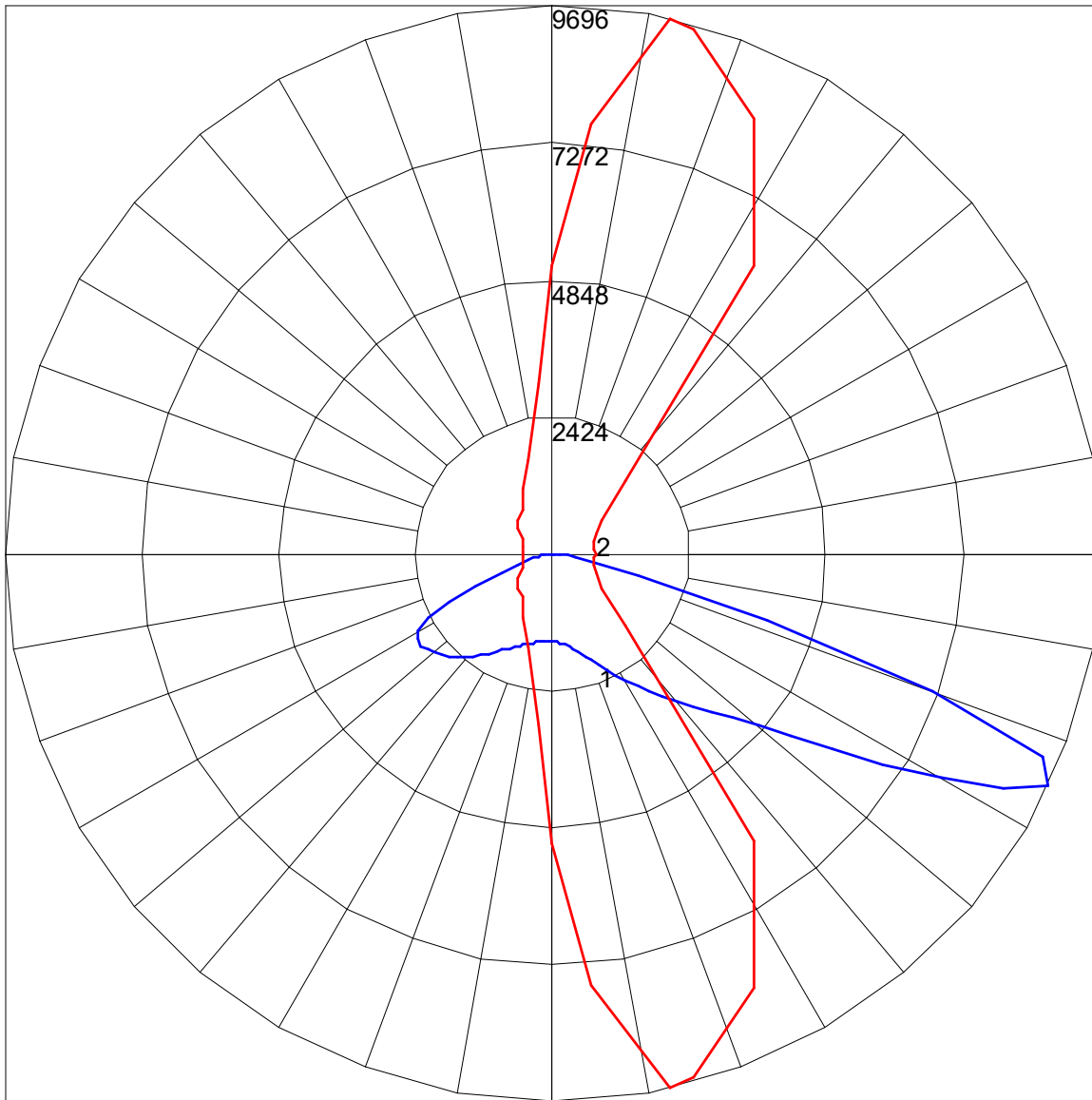
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

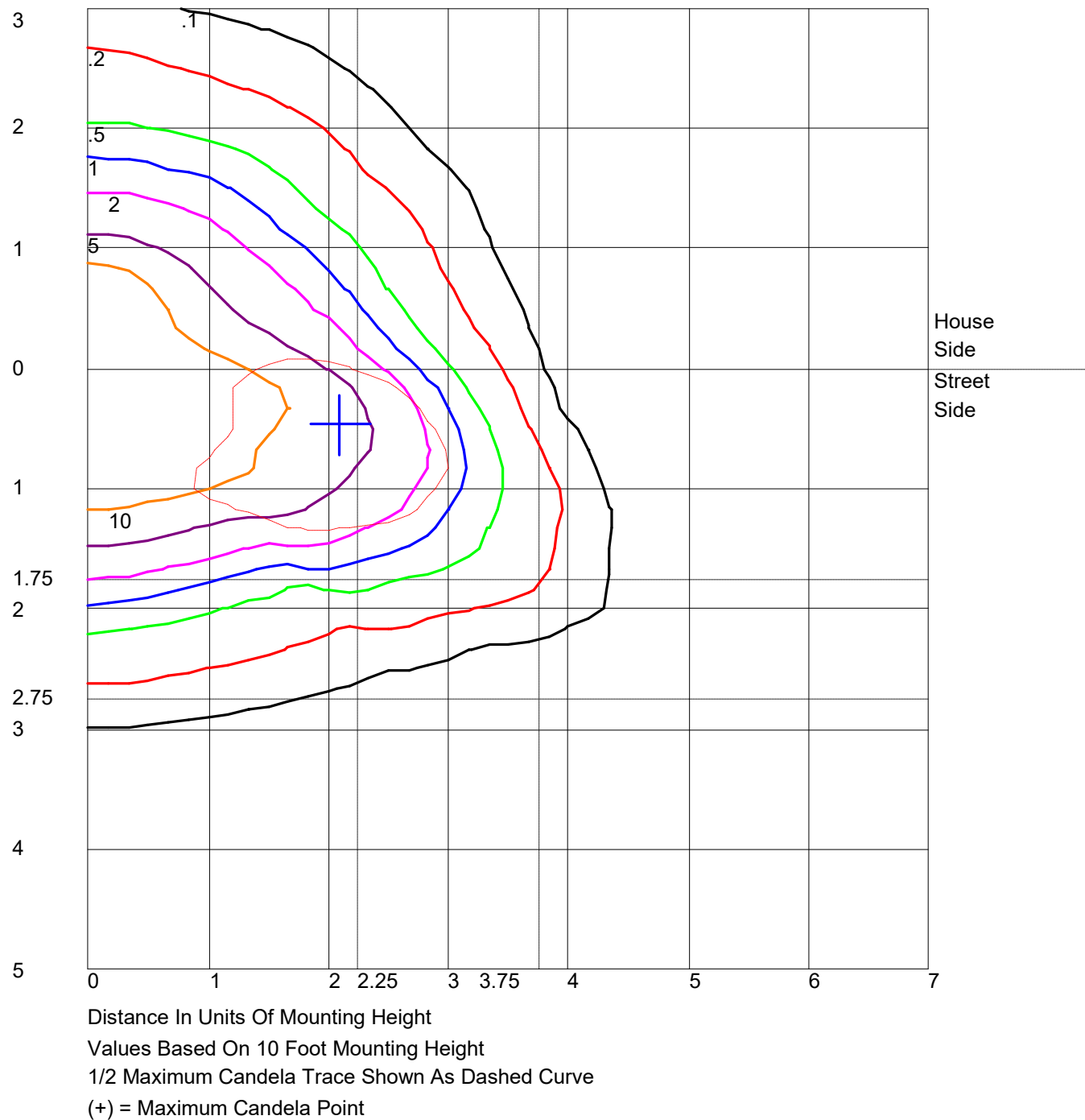
	Lumens	Percent Of Luminaire
Downward Street Side	7673.1	65.4
Downward House Side	4061.7	34.6
Downward Total	11734.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11734.8	100.0

POLAR GRAPH

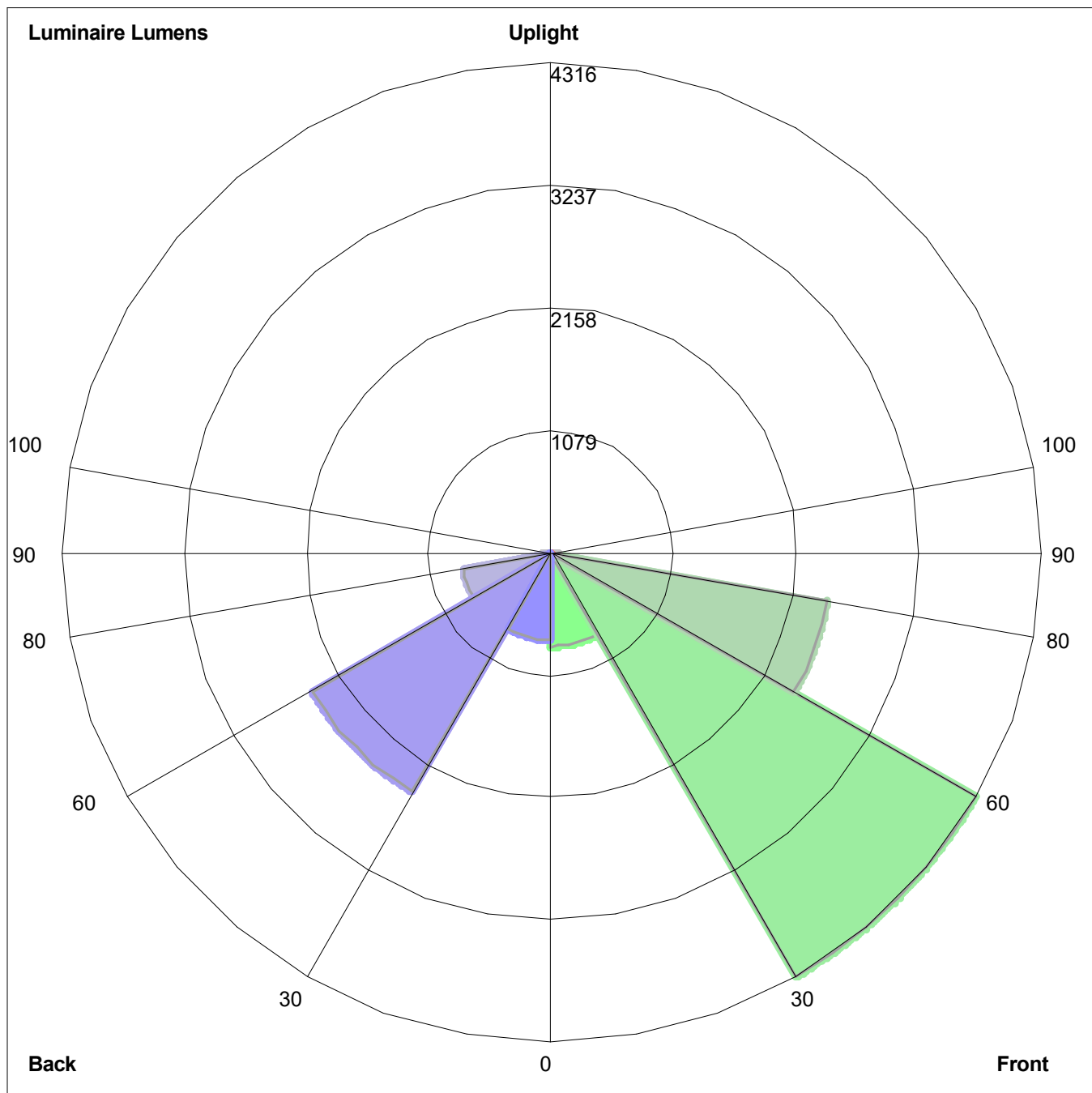


Maximum Candela = 9696 Located At Horizontal Angle = 77.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=827.7, Medium=4316.4, High=2469.4, Very High=59.6
Back: Low=768.0, Medium=2435.5, High=787.0, Very High=71.1
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2