



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11796
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 05/04/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-SAX-FT-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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	11917
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	153
Total Luminaire Watts	77.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7807
Maximum Candela Angle	45H 70V
Maximum Candela (<90 Degrees Vertical)	7807
Maximum Candela Angle (<90 Degrees Vertical)	45H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2292 (19.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	783.4	N.A.	6.6
FM - Front-Medium (30-60)	3570.0	N.A.	30.0
FH - Front-High (60-80)	4221.5	N.A.	35.4
FVH - Front-Very High (80-90)	230.4	N.A.	1.9
BL - Back-Low (0-30)	715.9	N.A.	6.0
BM - Back-Medium (30-60)	1668.1	N.A.	14.0
BH - Back-High (60-80)	674.5	N.A.	5.7
BVH - Back-Very High (80-90)	53.3	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	11917.1	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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1637	1637	1637	1637	1637	1637	1637	1637	1637	1637
2.5	1633	1636	1638	1642	1644	1643	1645	1648	1644	1643
5.0	1631	1631	1635	1641	1648	1653	1653	1659	1659	1660
7.5	1603	1605	1613	1623	1640	1652	1656	1674	1682	1689
10.0	1592	1596	1605	1619	1640	1656	1661	1690	1715	1729
12.5	1598	1599	1612	1629	1653	1674	1682	1718	1748	1779
15.0	1624	1630	1639	1659	1686	1711	1720	1757	1794	1836
17.5	1673	1678	1688	1708	1736	1758	1767	1805	1839	1887
20.0	1744	1746	1758	1776	1801	1822	1825	1853	1887	1925
22.5	1825	1829	1837	1853	1873	1887	1894	1913	1927	1963
25.0	1926	1928	1933	1947	1956	1965	1963	1967	1971	1994
27.5	2032	2042	2040	2047	2052	2047	2041	2026	2012	2021
30.0	2155	2162	2160	2162	2158	2139	2128	2094	2056	2042
32.5	2271	2278	2283	2282	2265	2240	2229	2170	2103	2063
35.0	2398	2410	2410	2406	2390	2354	2346	2260	2158	2088
37.5	2535	2539	2550	2543	2524	2491	2477	2374	2228	2119
40.0	2682	2692	2696	2704	2675	2645	2631	2507	2315	2169
42.5	2872	2870	2878	2882	2870	2828	2817	2681	2435	2240
45.0	3054	3054	3071	3087	3083	3041	3031	2886	2588	2353
47.5	3253	3254	3283	3322	3339	3311	3289	3149	2807	2513
50.0	3465	3465	3511	3579	3619	3607	3600	3473	3083	2723
52.5	3663	3669	3743	3860	3932	3949	3952	3859	3431	2999
55.0	3839	3855	3947	4128	4270	4322	4345	4310	3864	3333
57.5	3992	4005	4133	4383	4629	4763	4812	4870	4353	3729
60.0	4151	4159	4318	4643	4994	5251	5331	5485	4901	4100
62.5	4369	4384	4583	4969	5424	5801	5927	6145	5426	4403
65.0	4664	4697	4945	5402	5992	6418	6569	6740	5814	4408
67.5	4775	4811	5210	5927	6699	7138	7265	7099	5722	3909
70.0	4411	4477	5019	6213	7408	7803	7807	6862	4901	2750
72.5	3448	3555	4184	5622	7503	7694	7481	5812	3324	1483
75.0	2039	2075	2806	4198	6123	6362	6140	3943	1812	983
77.5	941	979	1416	2484	3839	4303	4121	2333	1218	647
80.0	463	501	861	1362	1986	2292	2222	1480	764	402
82.5	291	303	568	870	973	1315	1261	786	449	230
85.0	219	232	404	558	673	650	566	362	226	124
87.5	142	160	272	312	397	180	120	112	69	51
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	1637	1637	1637	1637	1637	1637	1637	1637	1637	1637
2.5	1642	1650	1651	1640	1644	1644	1640	1635	1639	1630
5.0	1662	1662	1664	1654	1652	1646	1627	1616	1606	1600
7.5	1693	1692	1692	1676	1656	1631	1614	1609	1611	1606
10.0	1731	1731	1725	1699	1657	1636	1629	1631	1638	1635
12.5	1784	1779	1771	1722	1664	1648	1651	1651	1655	1656
15.0	1844	1832	1816	1743	1678	1667	1667	1665	1673	1667
17.5	1897	1885	1863	1763	1694	1686	1676	1677	1675	1676
20.0	1947	1933	1907	1780	1707	1689	1685	1677	1676	1673
22.5	1988	1977	1944	1789	1716	1693	1686	1674	1672	1666
25.0	2015	2009	1973	1791	1717	1694	1678	1664	1663	1658
27.5	2035	2026	1993	1789	1704	1684	1665	1654	1651	1647

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CANDELA TABULATION - (Cont.)

30.0	2042	2035	1998	1770	1685	1666	1647	1634	1632	1637
32.5	2045	2034	1994	1744	1659	1645	1623	1608	1614	1619
35.0	2044	2021	1983	1715	1631	1614	1593	1576	1591	1603
37.5	2041	2011	1970	1681	1589	1577	1554	1543	1563	1584
40.0	2054	2003	1952	1639	1551	1533	1513	1499	1541	1577
42.5	2086	2013	1946	1599	1494	1488	1461	1457	1519	1542
45.0	2146	2040	1946	1558	1436	1430	1401	1409	1517	1435
47.5	2239	2096	1972	1521	1371	1372	1342	1364	1451	1319
50.0	2378	2189	2026	1499	1288	1304	1274	1324	1349	1221
52.5	2569	2316	2099	1486	1209	1227	1198	1276	1241	1130
55.0	2794	2467	2192	1483	1126	1146	1126	1202	1141	1045
57.5	3038	2629	2292	1480	1044	1070	1050	1115	1028	925
60.0	3274	2769	2291	1466	965	994	979	1009	904	840
62.5	3360	2738	2089	1414	886	915	898	902	794	763
65.0	3146	2442	1654	1282	797	826	805	825	708	698
67.5	2503	1836	1100	1033	701	730	727	759	638	653
70.0	1428	1035	682	733	596	628	654	685	576	610
72.5	784	604	472	530	477	526	574	598	510	520
75.0	542	396	310	380	365	419	479	481	342	333
77.5	331	244	204	265	278	332	355	285	249	270
80.0	180	139	141	192	215	243	215	216	195	213
82.5	115	91	93	140	161	141	150	164	132	159
85.0	68	47	51	89	82	86	99	91	62	100
87.5	24	12	17	30	36	36	34	34	26	40
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

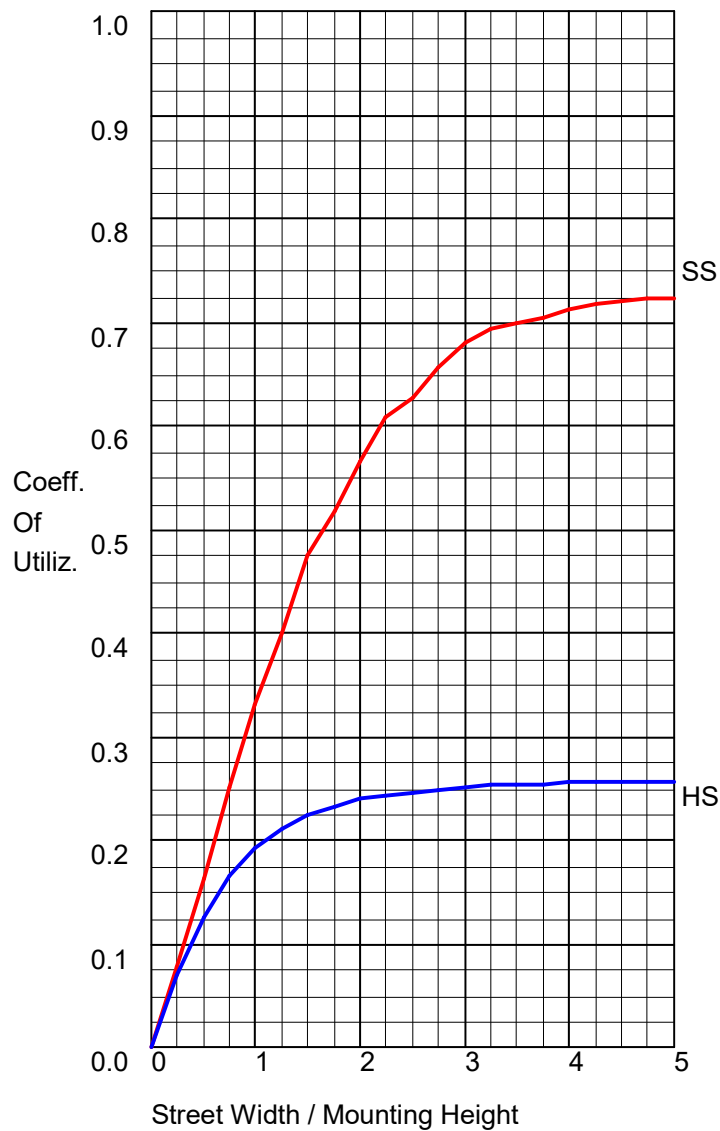
	<u>175.0</u>	<u>180.0</u>
0.0	1637	1637
2.5	1631	1629
5.0	1596	1595
7.5	1605	1604
10.0	1636	1635
12.5	1652	1651
15.0	1668	1668
17.5	1669	1671
20.0	1671	1669
22.5	1665	1665
25.0	1658	1657
27.5	1648	1645
30.0	1638	1635
32.5	1621	1623
35.0	1606	1603
37.5	1583	1584
40.0	1563	1557
42.5	1446	1436
45.0	1332	1327
47.5	1242	1232
50.0	1160	1147
52.5	1073	1066
55.0	984	972
57.5	879	864
60.0	795	780
62.5	728	713
65.0	681	668

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CANDELA TABULATION - (Cont.)

67.5	653	637
70.0	627	607
72.5	531	518
75.0	399	398
77.5	365	378
80.0	307	335
82.5	244	265
85.0	162	188
87.5	84	97
90.0	0	0

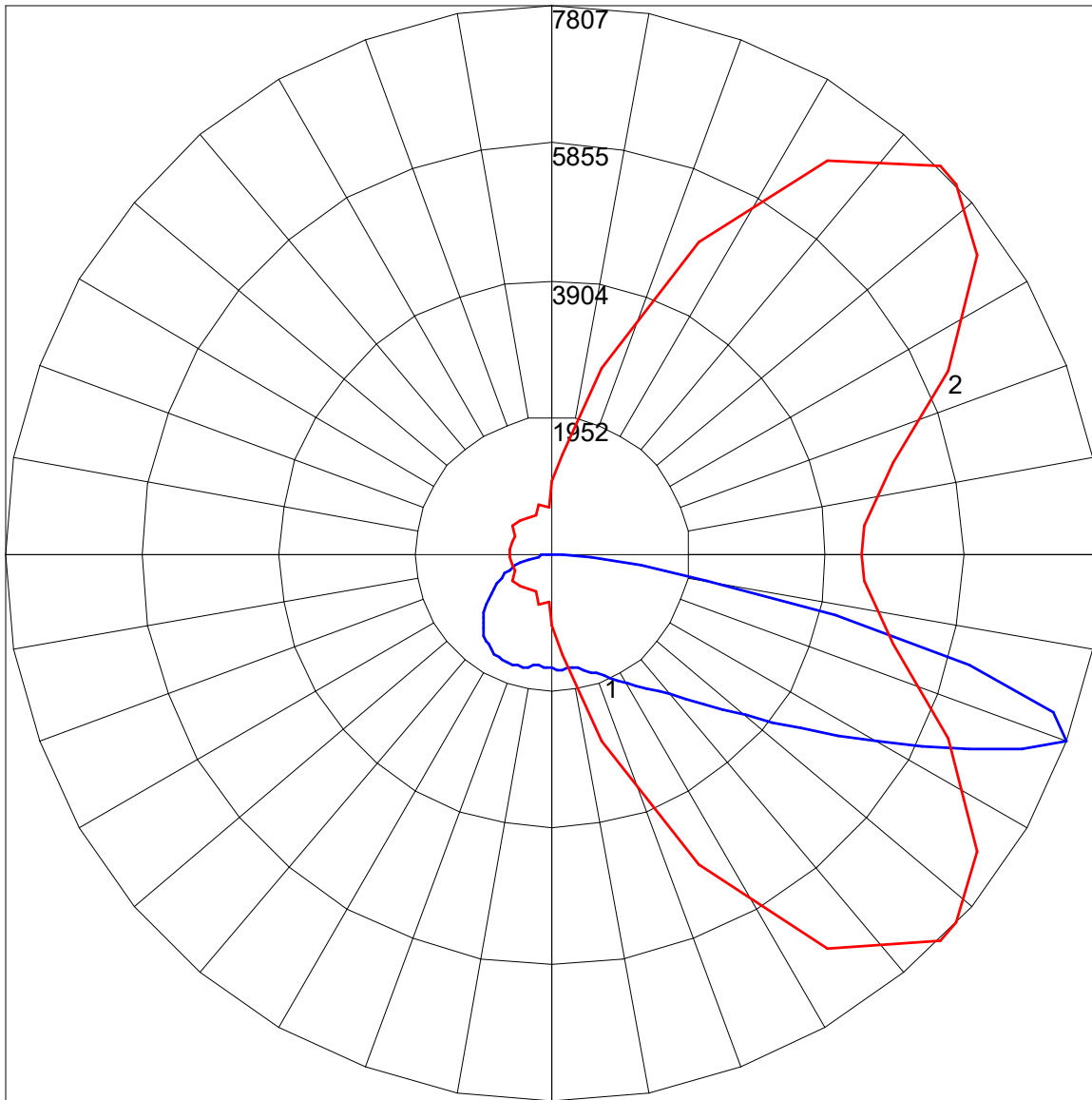
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

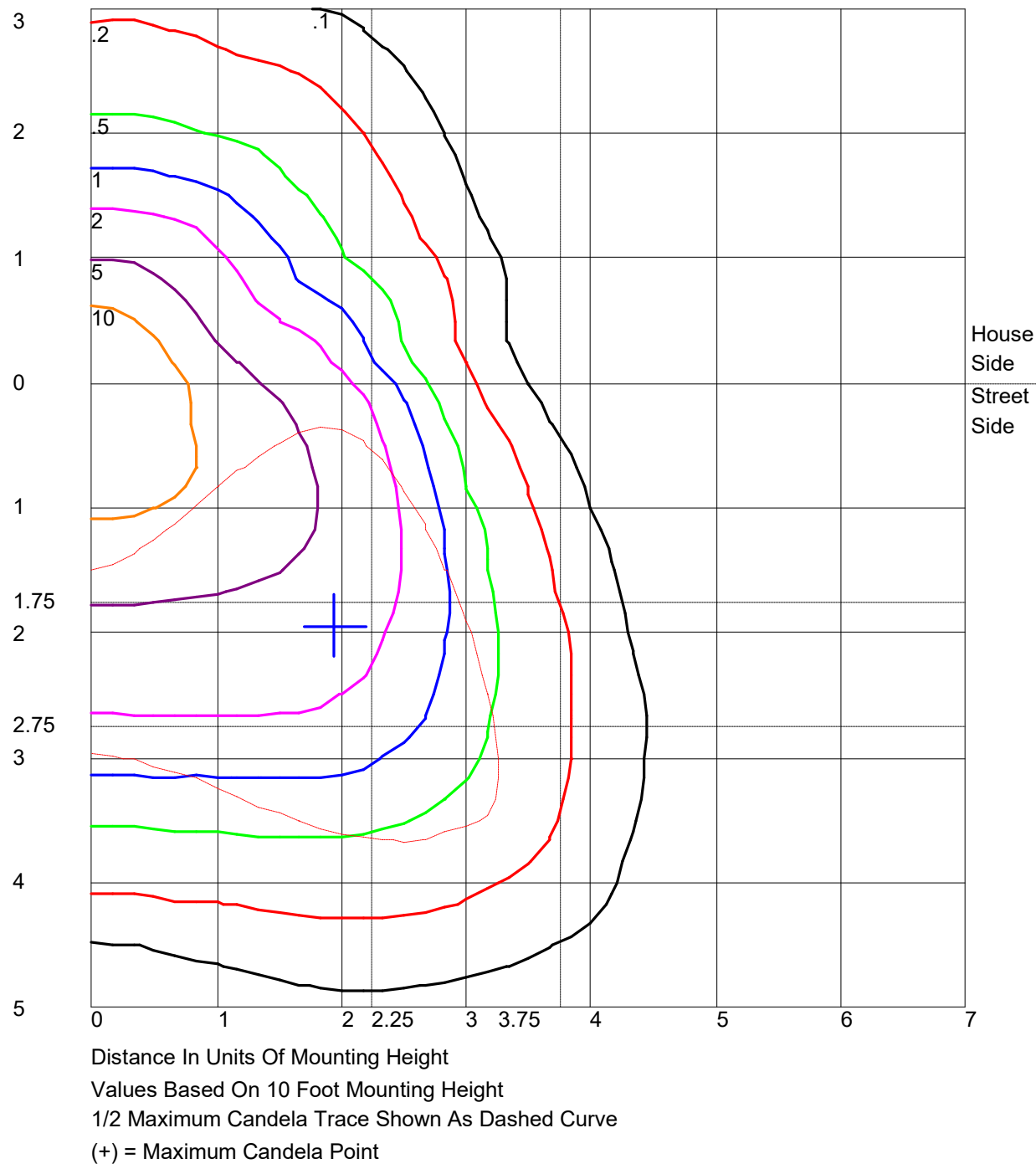
	Lumens	Percent Of Luminaire
Downward Street Side	8805.3	73.9
Downward House Side	3111.7	26.1
Downward Total	11917.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11917.0	100.0

POLAR GRAPH

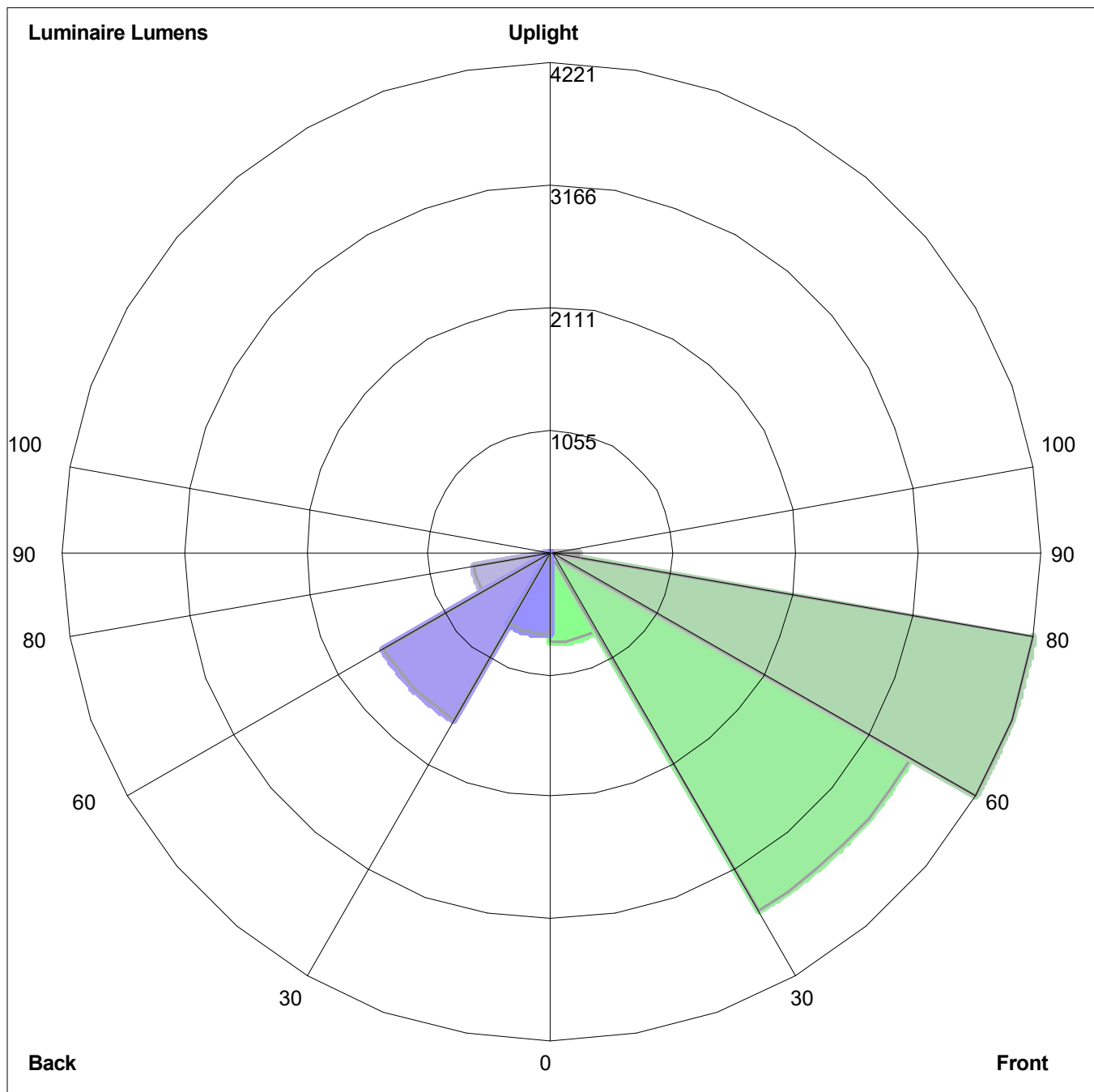


Maximum Candela = 7807 Located At Horizontal Angle = 45, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=783.4, Medium= 3570.0, High=4221.5, Very High=230.4
Back: Low=715.9, Medium=1668.1, High=674.5, Very High=53.3
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3