



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : ENM4-SAX-2-LED-10L-40.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-40  
[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	11176
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	144
Total Luminaire Watts	77.8
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	9234
Maximum Candela Angle	77.5H 65V
Maximum Candela (<90 Degrees Vertical)	9234
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	687 (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)	788.3	N.A.	7.1
FM - Front-Medium (30-60)	4110.9	N.A.	36.8
FH - Front-High (60-80)	2351.8	N.A.	21.0
FVH - Front-Very High (80-90)	56.8	N.A.	0.5
BL - Back-Low (0-30)	731.5	N.A.	6.5
BM - Back-Medium (30-60)	2319.6	N.A.	20.8
BH - Back-High (60-80)	749.5	N.A.	6.7
BVH - Back-Very High (80-90)	67.8	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	11176.2	N.A.	100.0
BUG Rating	B2-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>	<u><b>77.5</b></u>
<b>0.0</b>	1496	1496	1496	1496	1496	1496	1496	1496	1496	1496
<b>2.5</b>	1522	1528	1527	1525	1526	1523	1515	1506	1502	1500
<b>5.0</b>	1565	1570	1570	1566	1567	1561	1551	1538	1526	1522
<b>7.5</b>	1605	1609	1611	1609	1611	1605	1594	1579	1560	1553
<b>10.0</b>	1642	1646	1649	1650	1653	1653	1644	1628	1602	1596
<b>12.5</b>	1669	1673	1679	1687	1702	1706	1704	1688	1664	1650
<b>15.0</b>	1681	1686	1700	1718	1746	1763	1773	1759	1736	1719
<b>17.5</b>	1688	1695	1712	1742	1787	1825	1848	1853	1822	1809
<b>20.0</b>	1707	1710	1732	1773	1831	1891	1931	1953	1927	1912
<b>22.5</b>	1725	1734	1763	1811	1878	1956	2031	2065	2047	2031
<b>25.0</b>	1760	1771	1799	1856	1934	2027	2127	2187	2182	2165
<b>27.5</b>	1815	1823	1853	1912	2003	2103	2226	2324	2336	2319
<b>30.0</b>	1894	1900	1930	1993	2084	2193	2331	2461	2498	2484
<b>32.5</b>	2008	2019	2050	2111	2197	2302	2443	2601	2673	2661
<b>35.0</b>	2178	2188	2217	2269	2347	2438	2568	2742	2854	2852
<b>37.5</b>	2405	2417	2456	2495	2543	2617	2714	2885	3042	3054
<b>40.0</b>	2682	2696	2740	2772	2806	2851	2885	3031	3247	3271
<b>42.5</b>	2973	3006	3043	3085	3140	3146	3109	3192	3479	3506
<b>45.0</b>	3285	3284	3337	3405	3491	3528	3411	3381	3727	3775
<b>47.5</b>	3446	3455	3539	3664	3834	3955	3816	3633	4022	4117
<b>50.0</b>	3472	3486	3600	3802	4110	4429	4402	3967	4396	4528
<b>52.5</b>	3289	3294	3449	3718	4191	4825	5047	4480	4887	5072
<b>55.0</b>	2872	2874	3054	3371	3967	4996	5786	5173	5560	5756
<b>57.5</b>	2216	2220	2412	2745	3397	4808	6458	6046	6378	6607
<b>60.0</b>	1547	1542	1648	1908	2510	4108	6860	7052	7368	7603
<b>62.5</b>	1039	1029	1040	1199	1610	2925	6788	7881	8406	8602
<b>65.0</b>	726	708	715	808	997	1742	5936	8087	9159	9234
<b>67.5</b>	500	511	523	591	717	1026	4218	7395	9025	8973
<b>70.0</b>	366	377	389	446	558	724	2457	5603	7255	6802
<b>72.5</b>	242	255	262	326	433	556	1331	3553	4285	3778
<b>75.0</b>	143	150	146	196	295	448	767	2090	1951	1512
<b>77.5</b>	106	117	99	122	177	318	485	1208	914	716
<b>80.0</b>	98	112	87	88	120	227	286	687	514	412
<b>82.5</b>	108	112	74	62	81	163	158	383	313	259
<b>85.0</b>	96	98	57	42	48	96	98	121	149	126
<b>87.5</b>	54	52	33	22	21	38	35	33	34	33
<b>90.0</b>	0	0	0	0	0	0	0	0	0	0

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	1496	1496	1496	1496	1496	1496	1496	1496	1496	1496
<b>2.5</b>	1502	1499	1498	1488	1487	1487	1483	1479	1478	1473
<b>5.0</b>	1519	1513	1505	1490	1479	1471	1464	1454	1452	1447
<b>7.5</b>	1547	1535	1524	1497	1478	1463	1451	1443	1443	1442
<b>10.0</b>	1582	1565	1547	1511	1482	1461	1452	1451	1460	1465
<b>12.5</b>	1628	1604	1581	1529	1487	1468	1470	1483	1505	1524
<b>15.0</b>	1688	1655	1623	1552	1497	1486	1500	1533	1576	1609
<b>17.5</b>	1763	1719	1677	1579	1515	1514	1548	1604	1669	1715
<b>20.0</b>	1851	1795	1744	1616	1542	1553	1611	1691	1777	1836
<b>22.5</b>	1957	1887	1820	1659	1580	1603	1690	1791	1898	1966
<b>25.0</b>	2079	1997	1908	1710	1624	1668	1784	1901	2021	2100
<b>27.5</b>	2219	2122	2018	1774	1677	1746	1884	2012	2143	2230

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**CANDELA TABULATION - (Cont.)**

30.0	2374	2267	2133	1843	1744	1828	1979	2118	2249	2334
32.5	2551	2419	2257	1918	1811	1911	2064	2200	2332	2407
35.0	2737	2589	2388	1992	1883	1986	2129	2252	2371	2437
37.5	2951	2769	2527	2063	1950	2041	2159	2267	2358	2402
40.0	3175	2964	2680	2134	2012	2074	2154	2232	2280	2295
42.5	3429	3178	2834	2201	2055	2071	2109	2142	2148	2122
45.0	3718	3416	2996	2260	2074	2036	2026	2017	1971	1916
47.5	4056	3686	3167	2314	2068	1965	1918	1865	1771	1704
50.0	4461	3990	3346	2351	2042	1871	1789	1698	1573	1507
52.5	4946	4337	3523	2388	1989	1756	1641	1539	1401	1340
55.0	5546	4727	3691	2388	1915	1627	1501	1398	1245	1164
57.5	6262	5115	3796	2342	1813	1475	1360	1253	1066	1001
60.0	6925	5415	3781	2225	1665	1302	1203	1087	898	840
62.5	7417	5391	3506	1992	1453	1106	1011	912	726	677
65.0	7297	4872	2887	1632	1190	898	811	732	578	523
67.5	6194	3730	2029	1205	928	690	639	577	458	448
70.0	4130	2322	1244	806	695	538	516	454	405	399
72.5	1953	1184	778	565	533	426	413	391	348	312
75.0	748	594	515	410	411	354	355	311	213	176
77.5	409	372	363	328	328	303	261	182	148	146
80.0	276	229	227	268	269	227	153	137	156	171
82.5	170	125	122	214	211	128	116	132	255	255
85.0	90	63	65	150	86	86	97	142	255	240
87.5	28	19	21	26	27	35	43	68	122	103
90.0	0	0	0	0	0	0	0	0	0	0

**Vert. Horizontal Angles**  
**Angles**

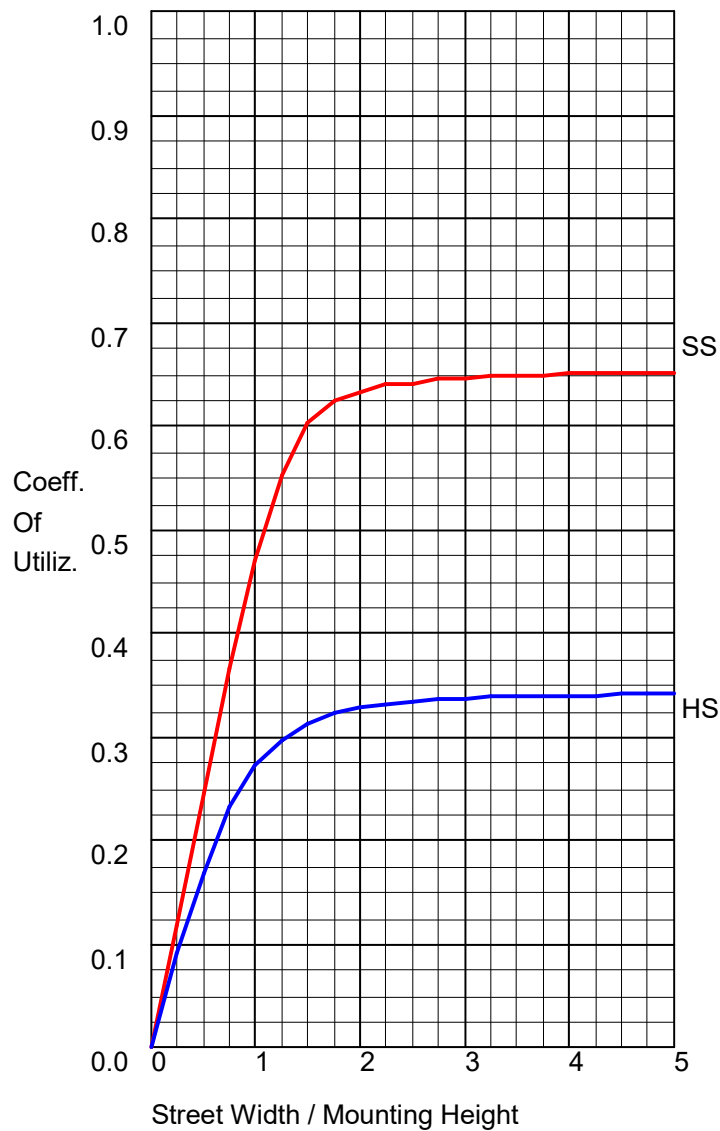
	<u>175.0</u>	<u>180.0</u>
0.0	1496	1496
2.5	1476	1474
5.0	1447	1447
7.5	1440	1440
10.0	1467	1466
12.5	1529	1528
15.0	1620	1622
17.5	1740	1738
20.0	1869	1881
22.5	2005	2019
25.0	2141	2152
27.5	2274	2278
30.0	2376	2384
32.5	2441	2452
35.0	2455	2470
37.5	2405	2416
40.0	2285	2286
42.5	2107	2104
45.0	1896	1894
47.5	1666	1651
50.0	1468	1455
52.5	1288	1285
55.0	1110	1104
57.5	956	950
60.0	791	784
62.5	637	631
65.0	511	512

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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	460	463
<b>70.0</b>	423	432
<b>72.5</b>	322	338
<b>75.0</b>	208	241
<b>77.5</b>	174	206
<b>80.0</b>	199	218
<b>82.5</b>	269	272
<b>85.0</b>	249	249
<b>87.5</b>	53	72
<b>90.0</b>	0	0

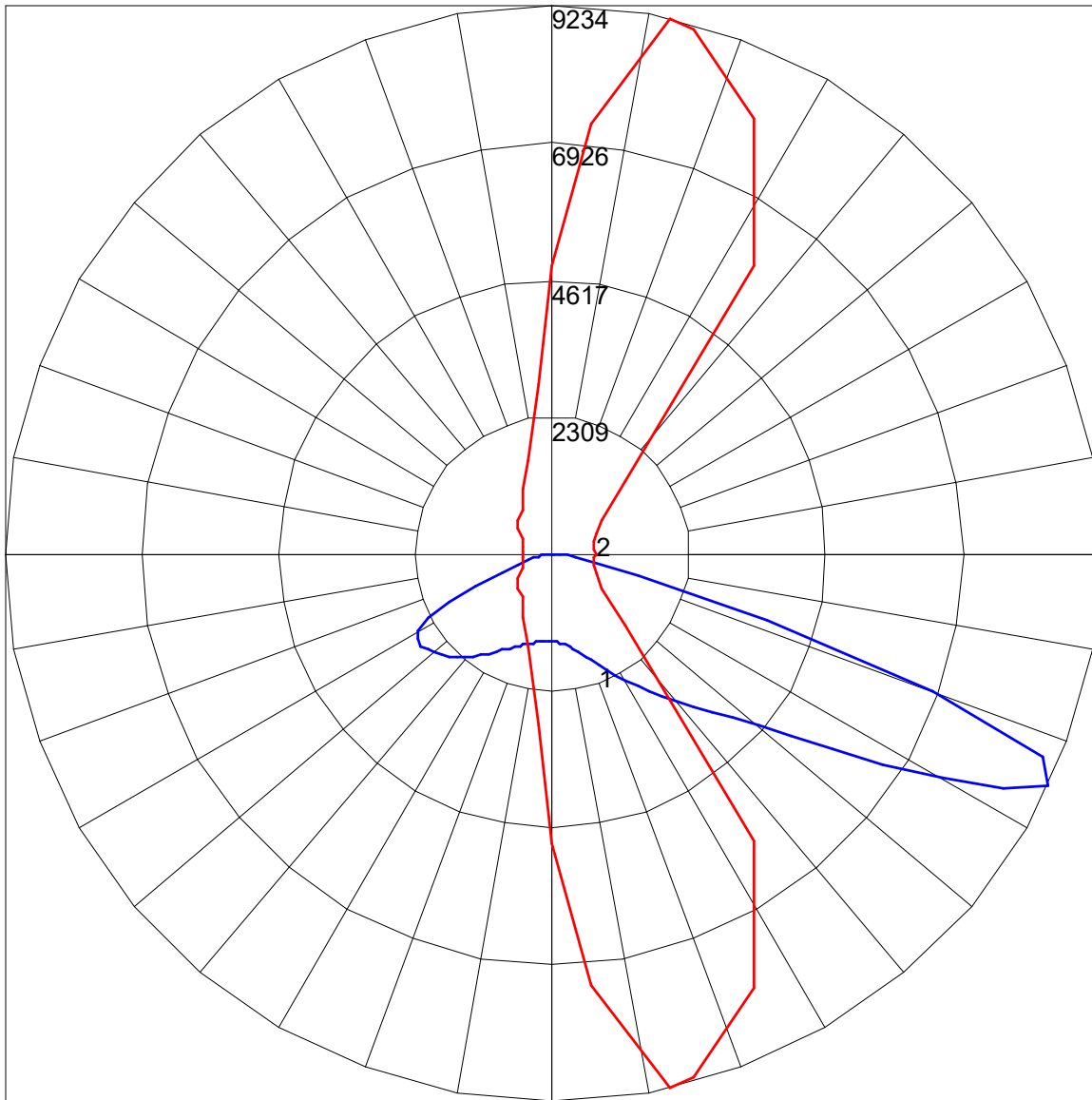
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

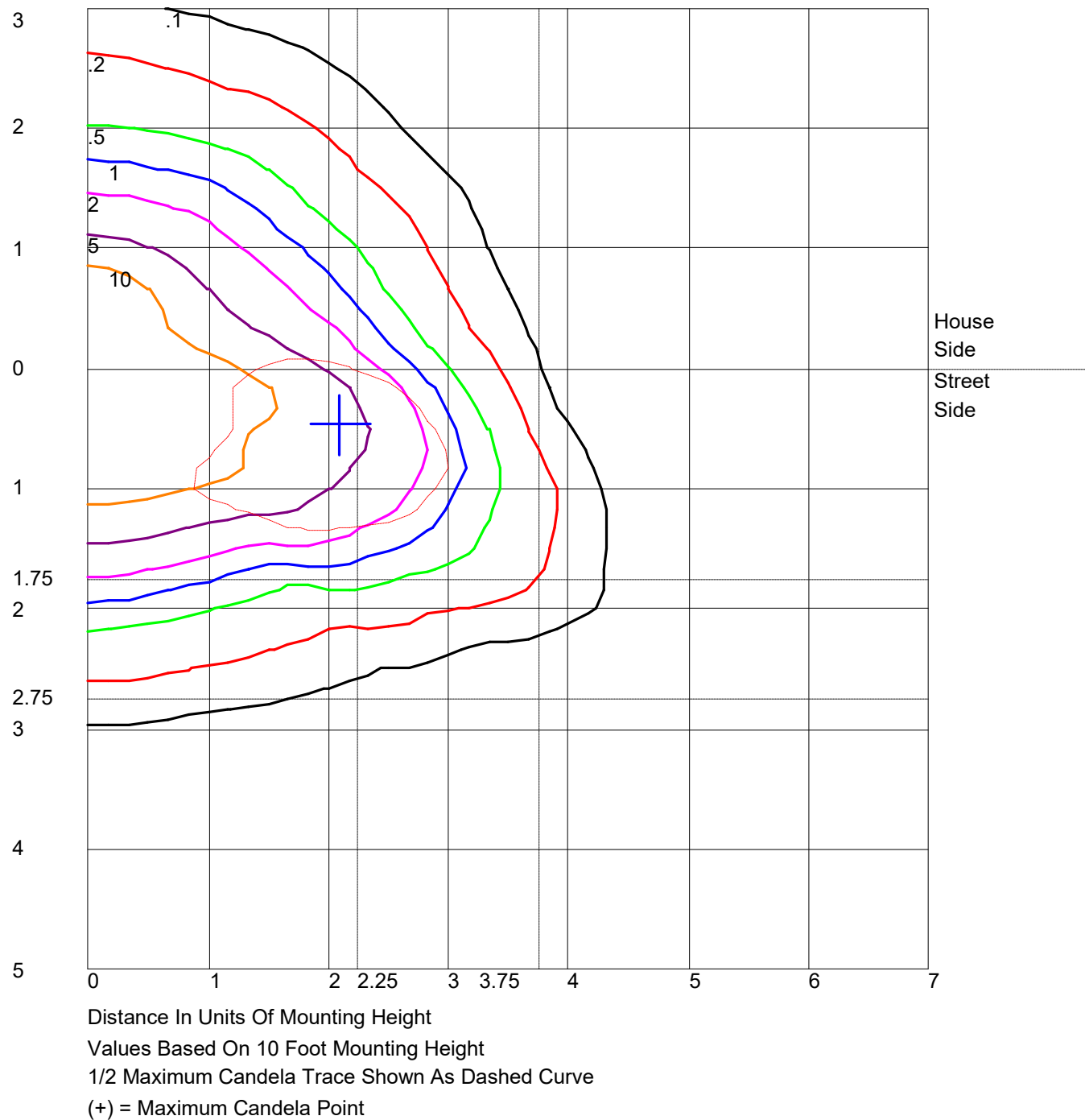
	Lumens	Percent Of Luminaire
Downward Street Side	7307.7	65.4
Downward House Side	3868.3	34.6
Downward Total	11176.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	11176.0	100.0

POLAR GRAPH



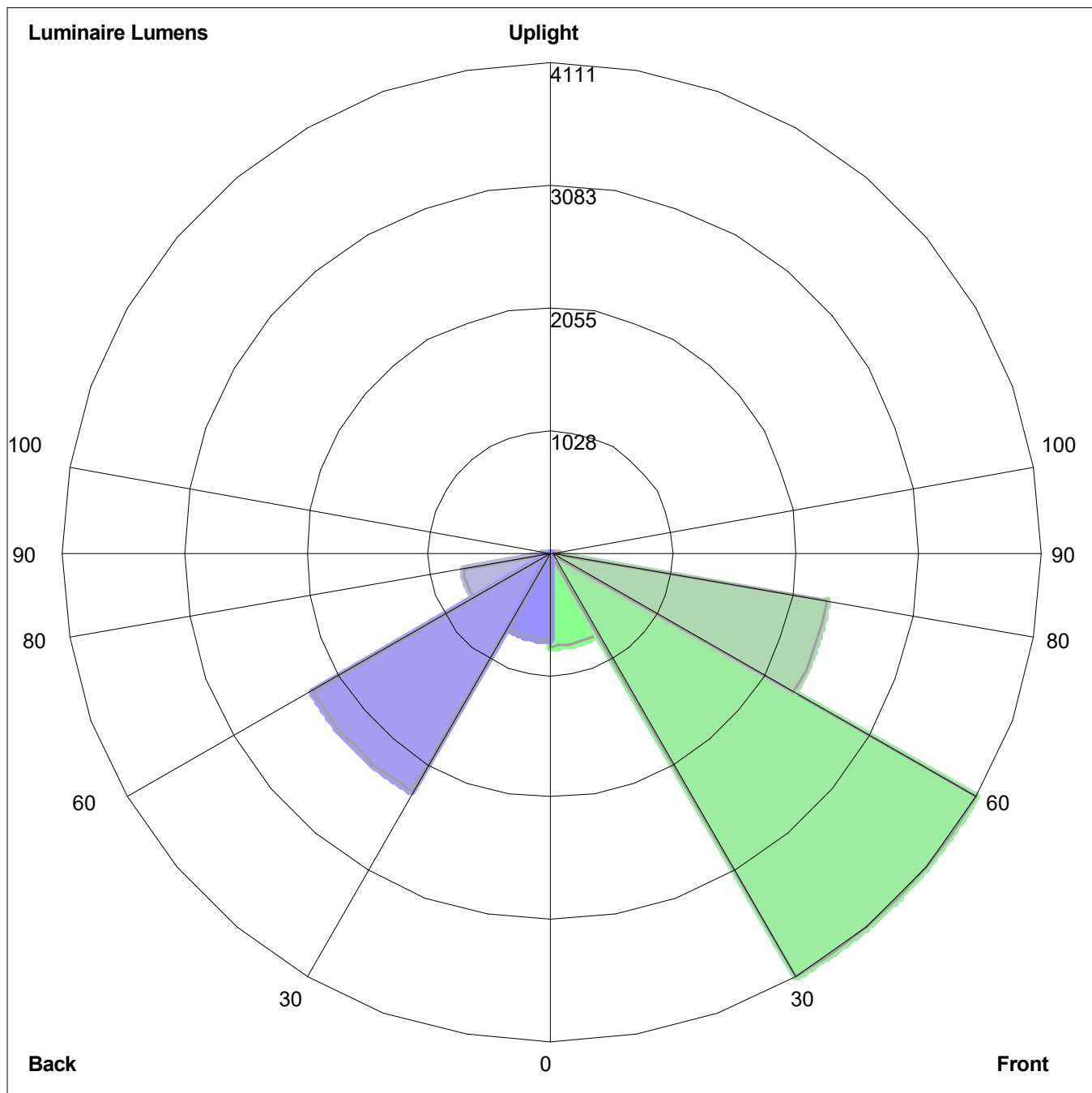
Maximum Candela = 9234 Located At Horizontal Angle = 77.5, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=788.3, Medium=4110.9, High=2351.8, Very High=56.8  
Back: Low=731.5, Medium=2319.6, High=749.5, Very High=67.8  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2