



IES ROAD REPORT
PHOTOMETRIC FILENAME : XMR-3-LED-18-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7763
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]04/28/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]XMR-3-LED-18-50
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] LED

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	18874
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	154.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19820
Maximum Candela Angle	55H 67.5V
Maximum Candela (<90 Degrees Vertical)	19820
Maximum Candela Angle (<90 Degrees Vertical)	55H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1331 (7.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	758.0	N.A.	4.0
FM - Front-Medium (30-60)	7198.0	N.A.	38.1
FH - Front-High (60-80)	6767.6	N.A.	35.9
FVH - Front-Very High (80-90)	163.7	N.A.	0.9
BL - Back-Low (0-30)	836.8	N.A.	4.4
BM - Back-Medium (30-60)	2174.7	N.A.	11.5
BH - Back-High (60-80)	918.3	N.A.	4.9
BVH - Back-Very High (80-90)	57.0	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	18874.1	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>45.0</u>	<u>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	1795	1795	1795	1795	1795	1795	1795	1795	1795	1795
2.5	1766	1768	1767	1770	1766	1777	1781	1783	1788	1787
5.0	1705	1707	1710	1720	1728	1748	1764	1768	1775	1778
7.5	1599	1604	1609	1628	1649	1684	1723	1732	1760	1780
10.0	1493	1497	1507	1528	1564	1619	1675	1689	1734	1780
12.5	1394	1396	1409	1439	1486	1554	1624	1640	1693	1759
15.0	1309	1313	1326	1364	1420	1493	1568	1589	1655	1736
17.5	1260	1263	1281	1324	1381	1456	1540	1561	1636	1725
20.0	1286	1287	1312	1356	1410	1481	1573	1590	1666	1746
22.5	1452	1456	1466	1501	1544	1618	1690	1702	1766	1838
25.0	1787	1788	1773	1785	1805	1856	1904	1908	1961	2016
27.5	2227	2230	2233	2199	2189	2203	2217	2214	2241	2276
30.0	2691	2694	2708	2686	2659	2642	2631	2596	2581	2535
32.5	3132	3138	3161	3194	3193	3153	3103	3067	2953	2817
35.0	3513	3525	3576	3649	3690	3693	3613	3579	3355	3113
37.5	3861	3881	3957	4073	4164	4237	4136	4079	3805	3409
40.0	4266	4288	4372	4511	4635	4773	4658	4580	4202	3677
42.5	4785	4809	4913	4983	5160	5312	5175	5061	4566	3924
45.0	5463	5535	5609	5598	5757	5885	5686	5528	4898	4119
47.5	6458	6446	6542	6480	6553	6569	6217	5986	5214	4302
50.0	7715	7701	7836	7780	7713	7399	6737	6447	5536	4525
52.5	9583	9657	9685	9588	9367	8433	7313	6962	5918	4849
55.0	11668	11755	11978	12010	11544	9837	8097	7655	6461	5337
57.5	12523	12669	13413	14174	14331	11841	9286	8814	7318	6231
60.0	11409	11604	12899	14637	16782	14614	11117	10544	8834	7630
62.5	7365	7606	9730	12704	16449	17138	13871	13218	10976	9580
65.0	2938	3017	3875	7379	13872	17669	17298	16578	13604	11212
67.5	1435	1520	1769	2662	8047	15431	19820	19764	15654	11871
70.0	726	775	899	1347	2868	10387	18176	19137	16589	10065
72.5	508	527	601	902	1664	4399	13787	15241	13578	5888
75.0	400	418	485	749	1283	2284	6991	8352	7313	1974
77.5	334	349	408	684	1107	1438	2757	3252	2110	677
80.0	258	270	336	614	977	1040	1244	1331	844	358
82.5	178	187	244	494	839	776	545	548	435	215
85.0	109	112	159	390	652	512	252	259	230	137
87.5	64	67	96	295	436	197	106	116	112	78
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	1795	1795	1795	1795	1795	1795	1795	1795	1795	1795
2.5	1801	1808	1807	1805	1817	1818	1821	1822	1817	1817
5.0	1799	1810	1815	1823	1836	1837	1840	1846	1850	1856
7.5	1805	1820	1830	1839	1851	1867	1892	1908	1917	1925
10.0	1815	1832	1848	1857	1884	1919	1944	1960	1970	1976
12.5	1814	1833	1852	1863	1915	1961	1990	1997	1998	2006
15.0	1810	1829	1851	1863	1935	1993	2016	2025	2026	2031
17.5	1808	1834	1853	1871	1960	2011	2037	2050	2045	2041
20.0	1821	1851	1861	1877	1988	2029	2054	2061	2048	2039
22.5	1907	1915	1903	1886	2022	2053	2069	2057	2040	2023
25.0	2039	2018	1974	1896	2049	2082	2072	2045	2023	2001
27.5	2208	2149	2064	1906	2058	2101	2076	2031	2005	1992

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CANDELA TABULATION - (Cont.)

30.0	2373	2264	2134	1912	2060	2106	2061	2022	2019	2051
32.5	2552	2379	2199	1899	2055	2098	2037	2039	2098	2220
35.0	2733	2487	2252	1863	2022	2072	2022	2078	2192	2381
37.5	2911	2589	2289	1805	1950	2029	2007	2067	2156	2288
40.0	3076	2678	2305	1726	1864	1962	1960	1983	2069	2130
42.5	3227	2746	2296	1639	1758	1862	1884	1907	2089	1897
45.0	3340	2795	2277	1553	1640	1744	1831	1901	2177	1815
47.5	3461	2873	2276	1473	1529	1643	1801	1921	2190	1825
50.0	3635	3009	2328	1414	1437	1564	1769	1965	2230	1849
52.5	3940	3257	2473	1392	1361	1499	1720	1908	2211	1870
55.0	4352	3648	2762	1413	1295	1438	1642	1808	2091	1858
57.5	5026	4261	3202	1480	1236	1367	1546	1681	1822	1814
60.0	6202	5050	3456	1520	1172	1274	1435	1478	1493	1789
62.5	7927	5681	3276	1415	1082	1141	1286	1267	1179	1744
65.0	8949	5720	2532	1178	934	975	1105	1082	912	1617
67.5	8688	4660	1692	863	737	774	892	911	747	1412
70.0	5707	2916	980	597	549	572	664	756	662	1139
72.5	2451	1210	431	409	418	436	502	636	567	831
75.0	703	442	261	311	338	358	407	506	392	525
77.5	337	249	195	256	282	301	309	370	281	358
80.0	209	166	162	212	233	218	219	271	213	250
82.5	137	112	133	186	166	147	170	190	126	158
85.0	82	76	115	154	104	94	120	86	58	60
87.5	43	38	91	113	53	47	40	28	15	18
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

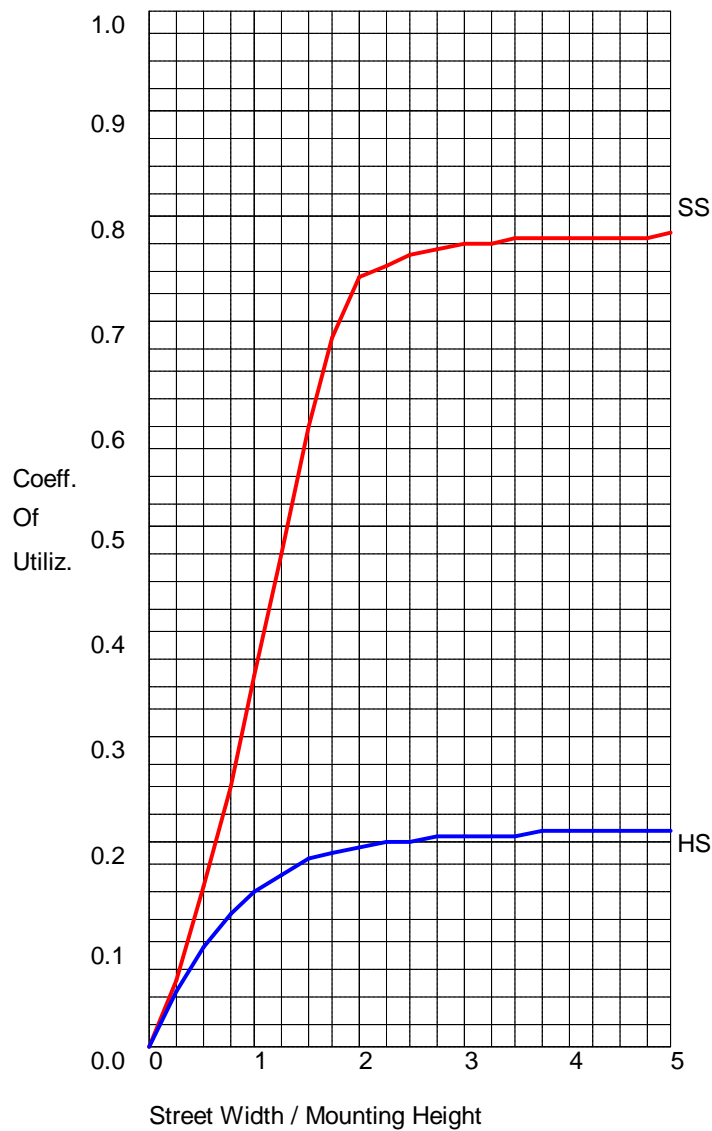
	<u>175.0</u>	<u>180.0</u>
0.0	1795	1795
2.5	1808	1811
5.0	1850	1854
7.5	1921	1924
10.0	1971	1969
12.5	2003	2001
15.0	2029	2025
17.5	2040	2036
20.0	2039	2035
22.5	2022	2019
25.0	1999	1999
27.5	1996	1998
30.0	2097	2100
32.5	2330	2333
35.0	2546	2575
37.5	2338	2309
40.0	1915	1877
42.5	1707	1687
45.0	1658	1637
47.5	1627	1601
50.0	1586	1552
52.5	1518	1478
55.0	1390	1354
57.5	1240	1175
60.0	1125	1033
62.5	1057	894
65.0	1109	807

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CANDELA TABULATION - (Cont.)

67.5	1278	885
70.0	1406	1131
72.5	1310	1289
75.0	1092	1301
77.5	776	911
80.0	387	380
82.5	163	167
85.0	68	69
87.5	20	7
90.0	0	0

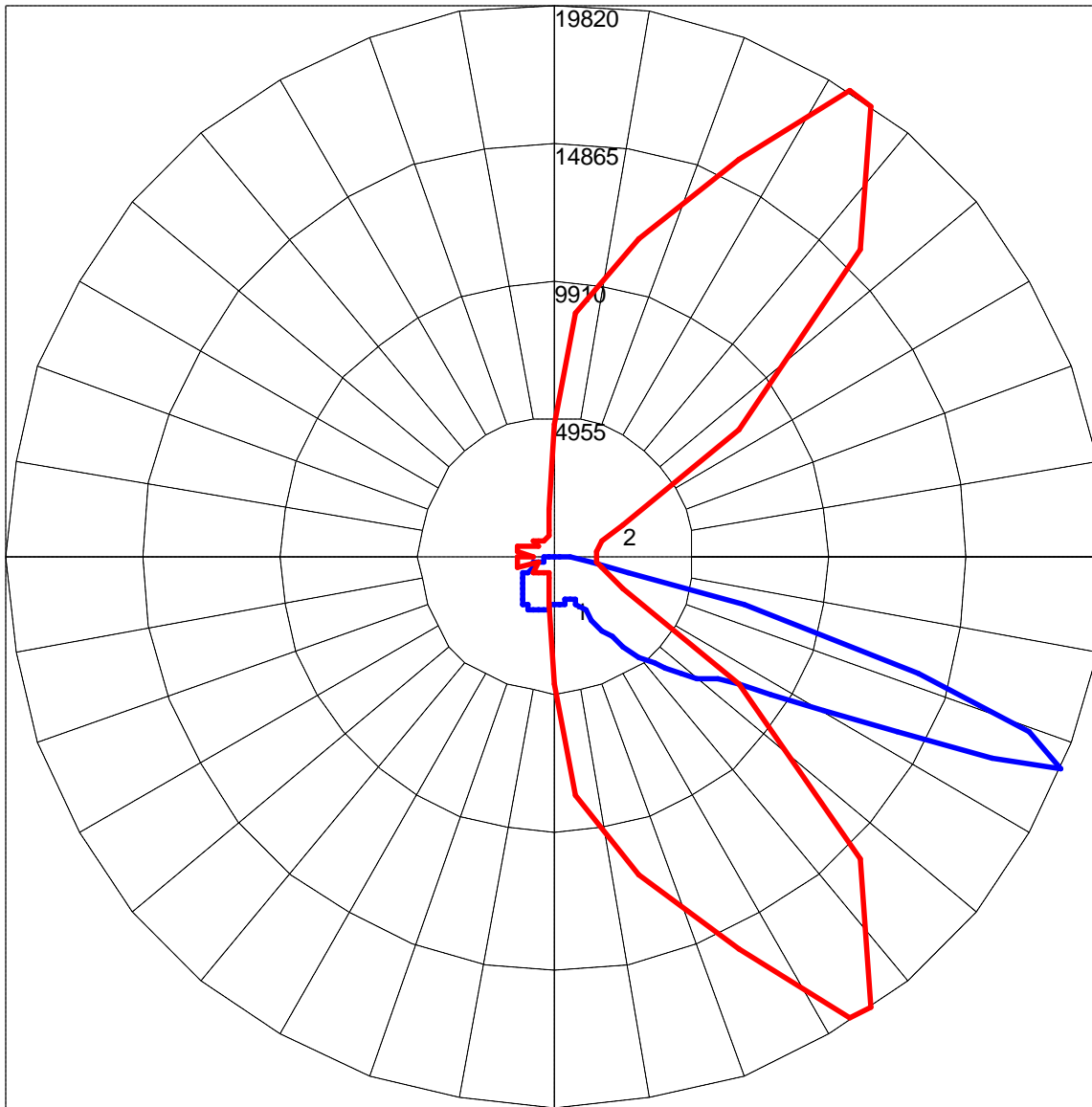
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

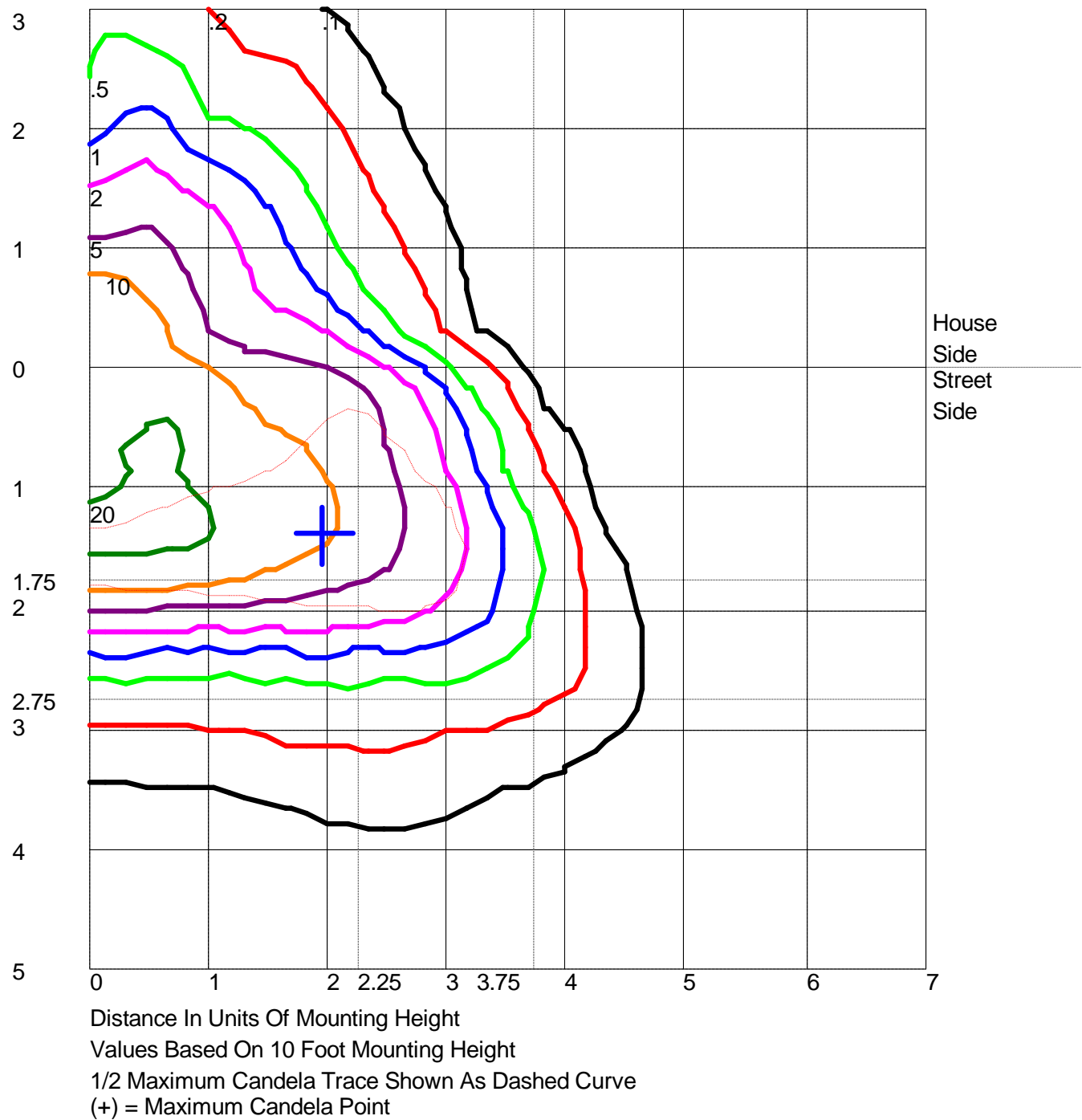
	Lumens	Percent Of Luminaire
Downward Street Side	14887.3	78.9
Downward House Side	3986.8	21.1
Downward Total	18874.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	18874.1	100.0

POLAR GRAPH

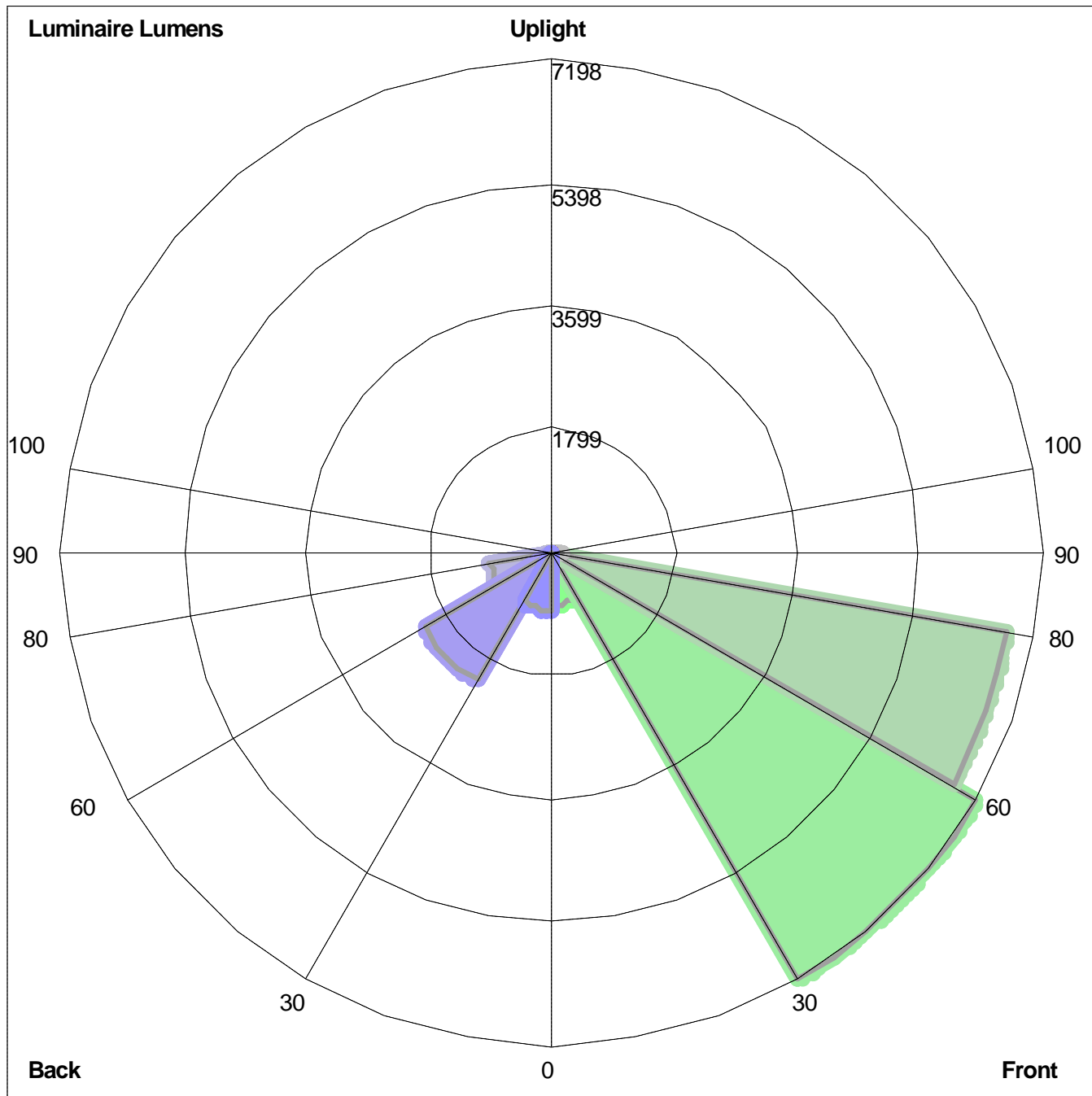


Maximum Candela = 19820 Located At Horizontal Angle = 55, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=758.0, Medium= 7198.0, High=6767.6, Very High=163.7
Back: Low=836.8, Medium=2174.7, High=918.3, Very High=57.0
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3