



IES ROAD REPORT

PHOTOMETRIC FILENAME : XMR-FT-LED-18-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-7759
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]11/21/16
[TEST DATE]04/28/16
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]XMR-FT-LED-18-40-IL
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH SOURCE TYPE] LED
[SEARCH APPLICATION] Outdoor
[OTHER]SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14362
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	154.1
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	12231
Maximum Candela Angle	55H 65V
Maximum Candela (<90 Degrees Vertical)	12231
Maximum Candela Angle (<90 Degrees Vertical)	55H 65V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2023 (14.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	797.9	N.A.	5.6
FM - Front-Medium (30-60)	5930.3	N.A.	41.3
FH - Front-High (60-80)	5863.3	N.A.	40.8
FVH - Front-Very High (80-90)	205.0	N.A.	1.4
BL - Back-Low (0-30)	518.8	N.A.	3.6
BM - Back-Medium (30-60)	866.4	N.A.	6.0
BH - Back-High (60-80)	176.0	N.A.	1.2
BVH - Back-Very High (80-90)	4.2	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	14361.9	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>52.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
2.5	1987	1970	1971	1979	1984	1992	1977	1997	2008	2008
5.0	1878	1865	1871	1887	1905	1926	1921	1945	1972	1989
7.5	1762	1751	1760	1780	1804	1839	1850	1880	1929	1968
10.0	1653	1645	1655	1681	1715	1759	1778	1808	1877	1944
12.5	1566	1556	1571	1596	1634	1683	1719	1748	1828	1921
15.0	1509	1502	1514	1539	1576	1633	1677	1706	1798	1902
17.5	1493	1488	1496	1518	1558	1620	1673	1699	1797	1902
20.0	1512	1511	1520	1549	1597	1661	1721	1744	1838	1931
22.5	1579	1582	1601	1639	1711	1780	1839	1852	1931	1995
25.0	1717	1722	1751	1810	1904	1986	2039	2039	2079	2088
27.5	1937	1944	1982	2060	2175	2285	2325	2299	2270	2201
30.0	2250	2258	2319	2406	2537	2658	2684	2628	2500	2325
32.5	2642	2654	2714	2799	2936	3086	3095	3007	2762	2460
35.0	3075	3111	3147	3231	3376	3508	3534	3422	3057	2623
37.5	3546	3538	3583	3687	3839	3941	4007	3882	3412	2809
40.0	3965	3954	4004	4154	4309	4382	4472	4350	3789	3035
42.5	4392	4379	4429	4629	4789	4867	4987	4865	4205	3318
45.0	4850	4827	4883	5133	5293	5362	5517	5399	4691	3670
47.5	5348	5336	5406	5694	5832	5897	6096	5986	5234	4134
50.0	5876	5851	5958	6314	6459	6488	6752	6661	5916	4753
52.5	6323	6296	6470	7031	7112	7141	7541	7506	6744	5435
55.0	6532	6517	6777	7539	7808	7874	8501	8535	7704	6177
57.5	6528	6518	6845	7772	8331	8792	9602	9705	8715	6893
60.0	6396	6410	6771	7752	8633	9732	10765	10890	9682	7321
62.5	6262	6296	6638	7605	8983	10642	11766	11880	10205	7230
65.0	6123	6178	6473	7513	9594	11483	12214	12231	9925	6354
67.5	6576	6602	6868	7597	10387	12156	11886	11680	8349	4703
70.0	6161	6195	6942	7996	10684	11948	10466	9906	5976	2826
72.5	4378	4394	5484	7411	10152	10497	7958	7223	3350	1331
75.0	1833	1829	2523	4399	7753	7942	5123	4347	1545	652
77.5	854	828	1199	1919	3461	4572	2639	2104	782	408
80.0	570	578	896	1298	1678	2023	1294	1027	473	300
82.5	434	442	724	997	1142	880	442	399	293	204
85.0	321	327	602	766	485	246	148	142	146	132
87.5	199	204	361	251	164	85	66	63	68	76
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	1994	1994	1994	1994	1994	1994	1994	1994	1994	1994
2.5	2017	2024	2025	2016	2016	2008	1993	1978	1960	1949
5.0	2010	2021	2024	1991	1941	1863	1782	1701	1634	1591
7.5	2005	2019	2020	1935	1795	1624	1464	1321	1225	1175
10.0	2004	2024	2015	1851	1605	1358	1184	1110	1080	1065
12.5	2007	2036	2011	1751	1409	1186	1108	1072	1048	1035
15.0	2016	2055	2008	1640	1279	1152	1102	1064	1021	989
17.5	2034	2078	2006	1532	1244	1161	1110	1035	966	921
20.0	2061	2106	2001	1442	1250	1182	1098	992	918	877
22.5	2095	2142	1990	1395	1266	1200	1073	960	889	852
25.0	2133	2169	1970	1382	1275	1195	1053	933	867	840
27.5	2172	2183	1925	1375	1278	1183	1029	905	850	800

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CANDELA TABULATION - (Cont.)

30.0	2202	2185	1870	1368	1276	1164	995	867	771	712
32.5	2224	2179	1816	1357	1268	1135	955	755	688	678
35.0	2254	2168	1777	1344	1256	1098	869	627	655	631
37.5	2305	2163	1763	1332	1234	1057	732	561	571	578
40.0	2378	2165	1767	1313	1193	988	640	499	514	527
42.5	2488	2188	1788	1292	1134	858	593	452	497	458
45.0	2654	2256	1838	1275	1066	741	528	404	485	387
47.5	2926	2388	1935	1267	964	596	408	338	448	329
50.0	3266	2571	2058	1249	736	414	300	286	378	278
52.5	3702	2792	2207	1197	474	321	247	234	253	230
55.0	4142	3025	2350	1024	370	299	220	190	163	193
57.5	4508	3205	2435	765	347	282	192	152	136	163
60.0	4627	3228	2336	583	322	249	155	126	113	121
62.5	4302	2909	1975	464	282	189	123	98	78	83
65.0	3502	2232	1336	368	213	143	103	69	55	63
67.5	2453	1413	642	268	138	115	84	53	46	59
70.0	1244	724	298	167	93	76	56	47	55	63
72.5	552	372	199	99	65	44	38	53	51	45
75.0	320	219	148	74	48	29	35	35	33	31
77.5	236	160	113	54	28	23	20	21	13	5
80.0	164	116	84	36	17	15	11	6	3	1
82.5	119	82	55	17	11	9	5	3	1	0
85.0	77	47	23	7	6	4	3	3	1	0
87.5	36	16	7	3	3	3	3	2	1	0
90.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

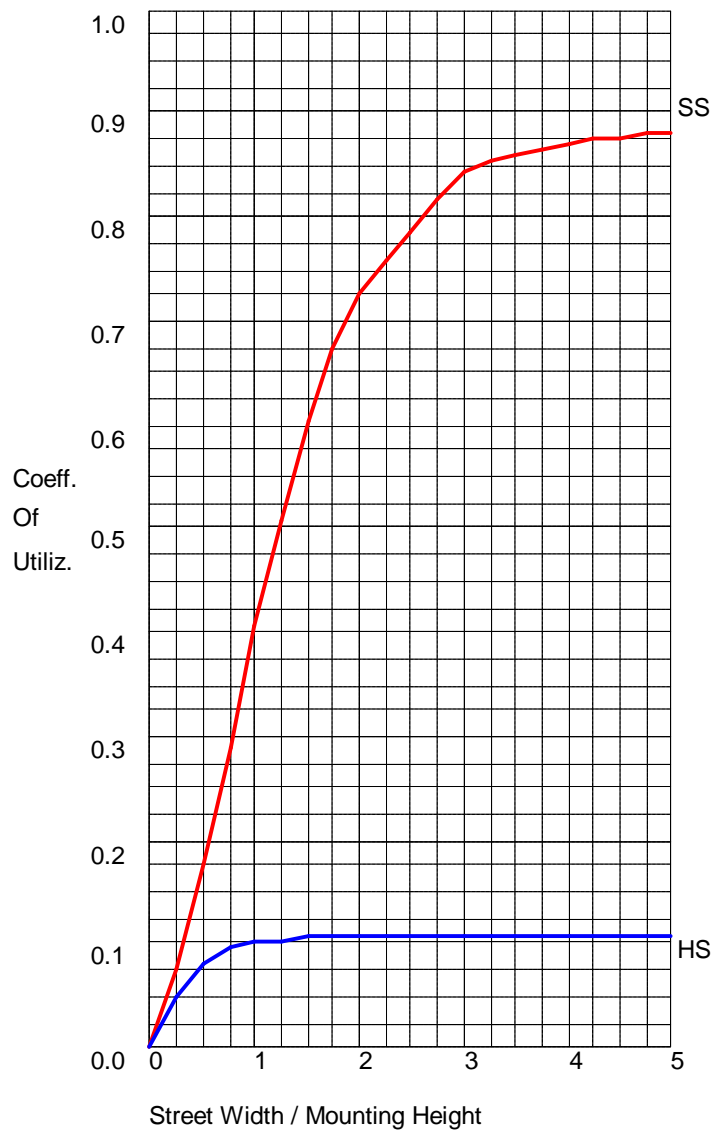
	175.0	180.0
0.0	1994	1994
2.5	1951	1947
5.0	1568	1585
7.5	1154	1138
10.0	1054	1050
12.5	1025	1021
15.0	971	966
17.5	903	899
20.0	864	859
22.5	838	833
25.0	816	808
27.5	731	716
30.0	607	586
32.5	549	523
35.0	492	462
37.5	438	395
40.0	369	339
42.5	307	287
45.0	270	259
47.5	247	239
50.0	226	221
52.5	206	200
55.0	197	190
57.5	180	173
60.0	129	122
62.5	98	92
65.0	84	81

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CANDELA TABULATION - (Cont.)

67.5	84	86
70.0	80	82
72.5	52	54
75.0	30	31
77.5	2	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0

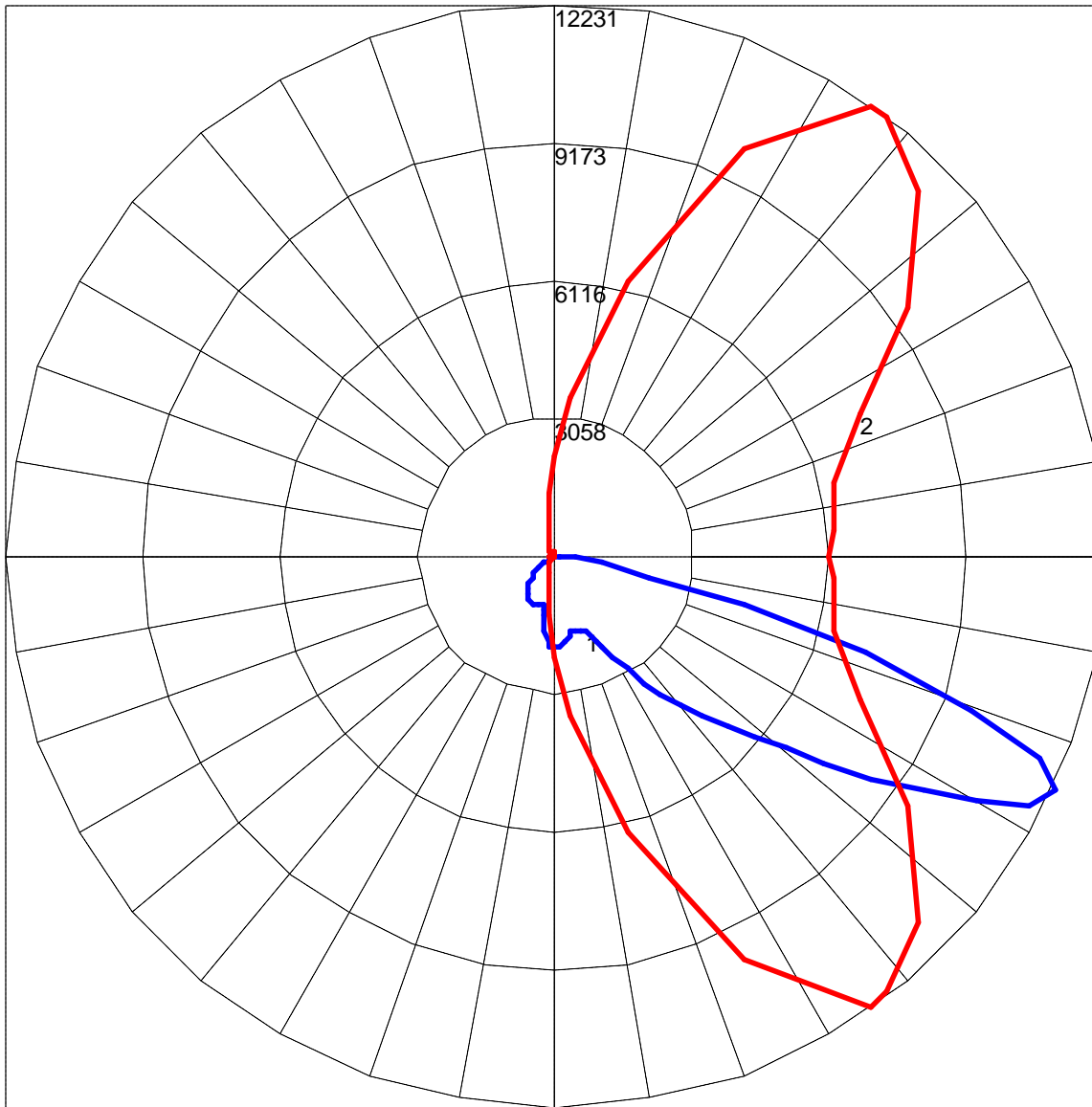
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

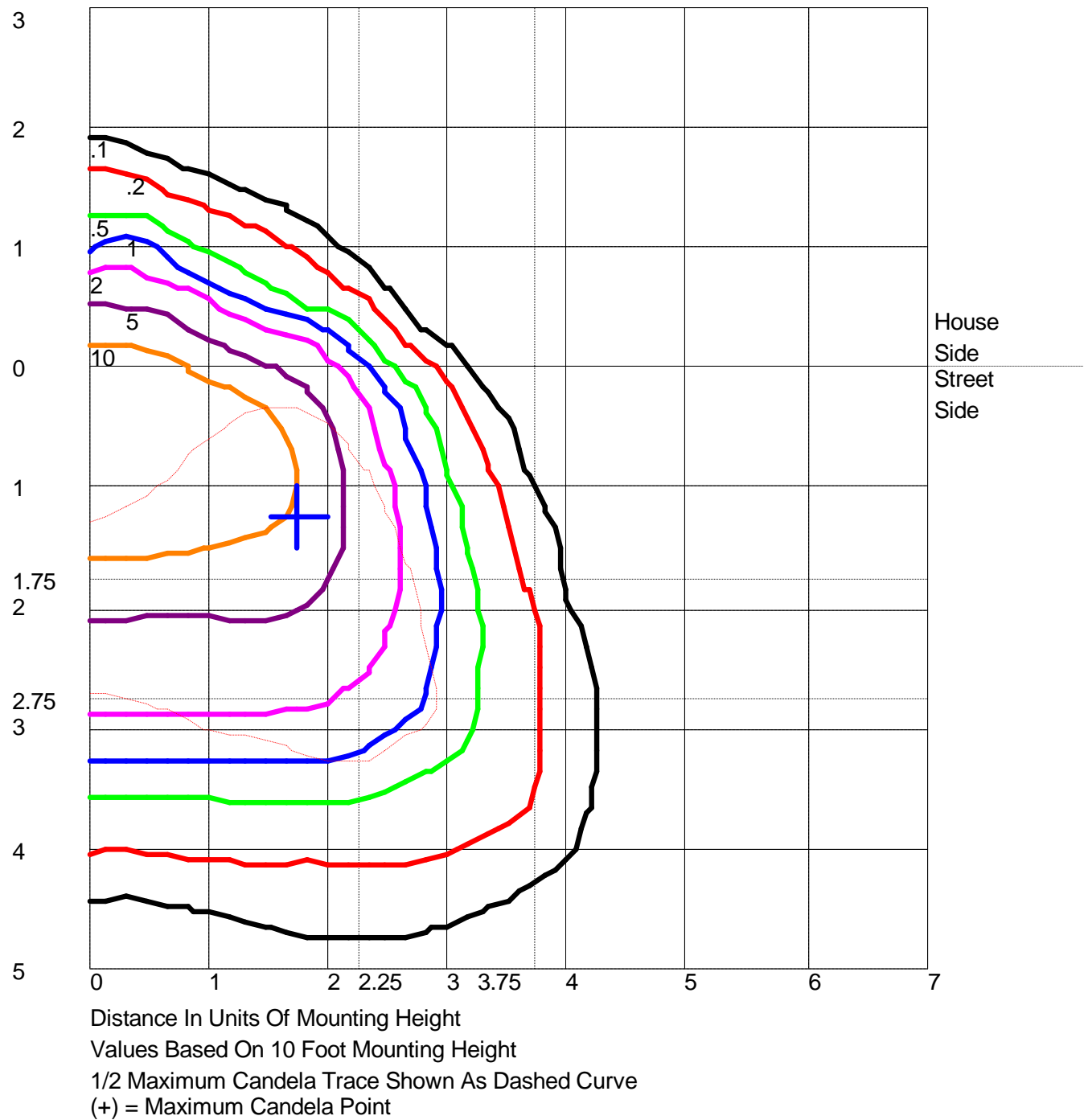
	Lumens	Percent Of Luminaire
Downward Street Side	12796.5	89.1
Downward House Side	1565.4	10.9
Downward Total	14361.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	14361.9	100.0

POLAR GRAPH

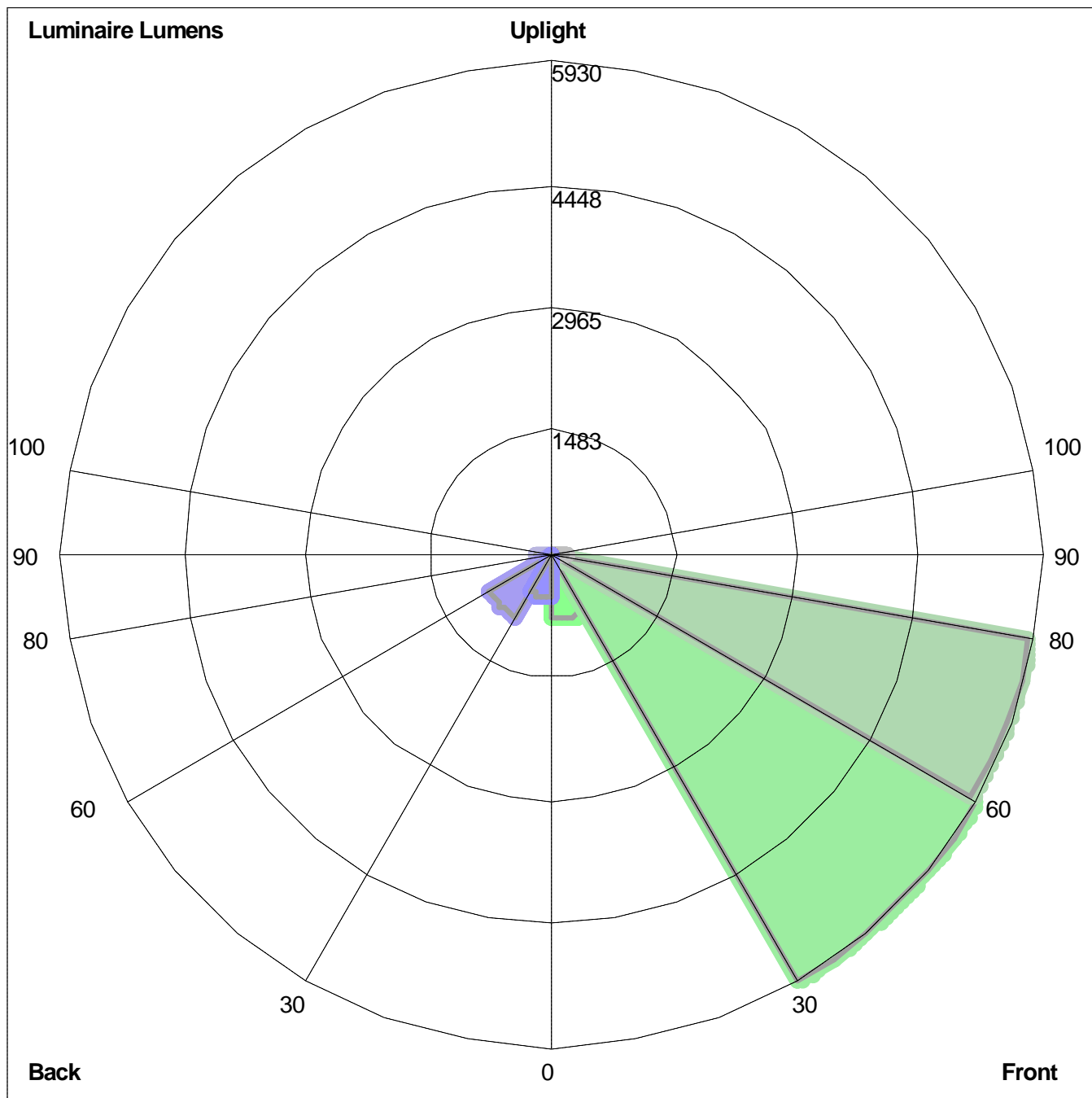


Maximum Candela = 12231 Located At Horizontal Angle = 55, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=797.9, Medium=5930.3, High=5863.3, Very High=205.0
Back: Low=518.8, Medium=866.4, High=176.0, Very High=4.2
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G3