



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-18L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11673

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/02/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-2-LED-18L-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	19010
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	148.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	15279
Maximum Candela Angle	82.5H 62.5V
Maximum Candela (<90 Degrees Vertical)	15279
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 62.5V
Maximum Candela At 90 Degrees Vertical	22 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	848 (4.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1090.6	N.A.	5.7
FM - Front-Medium (30-60)	7469.4	N.A.	39.3
FH - Front-High (60-80)	3297.8	N.A.	17.3
FVH - Front-Very High (80-90)	86.1	N.A.	0.5
BL - Back-Low (0-30)	833.4	N.A.	4.4
BM - Back-Medium (30-60)	4475.9	N.A.	23.5
BH - Back-High (60-80)	1623.2	N.A.	8.5
BVH - Back-Very High (80-90)	109.2	N.A.	0.6
UL - Uplight-Low (90-100)	6.5	N.A.	0.0
UH - Uplight-High (100-180)	18.5	N.A.	0.1
Total	19010.6	N.A.	100.0
BUG Rating	B3-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	65.0	75.0	82.5
0.0	1659	1659	1659	1659	1659	1659	1659	1659	1659	1659
2.5	1692	1690	1665	1657	1666	1678	1670	1653	1620	1618
5.0	1624	1641	1634	1656	1623	1622	1610	1567	1573	1560
7.5	1646	1668	1637	1663	1594	1650	1613	1614	1659	1606
10.0	1701	1692	1695	1673	1674	1717	1741	1707	1716	1690
12.5	1883	1848	1837	1811	1790	1847	1877	1898	1850	1857
15.0	2001	1928	1981	2005	2010	2045	2050	2102	2078	1967
17.5	2087	2045	2102	2091	2212	2260	2259	2310	2316	2234
20.0	2342	2299	2336	2300	2294	2434	2527	2532	2604	2567
22.5	2420	2516	2538	2600	2600	2632	2812	2823	2951	2928
25.0	2764	2806	2785	2821	2938	2925	3071	3151	3229	3324
27.5	3330	3270	3301	3238	3238	3319	3397	3548	3627	3759
30.0	3771	3846	3835	3754	3702	3677	3797	3921	4151	4216
32.5	4819	4653	4488	4263	4253	4203	4242	4344	4655	4690
35.0	5402	5448	5140	5095	4809	4795	4782	4937	5083	5328
37.5	6325	6311	5903	5643	5478	5492	5452	5403	5688	5941
40.0	6606	6601	6525	6297	6179	6221	6061	6068	6099	6503
42.5	6686	6674	6606	6575	6758	6731	6790	6752	6394	6838
45.0	6446	6502	6460	6569	6923	7217	7399	7477	6793	7251
47.5	5965	6017	6034	6278	6790	7402	8118	8441	7401	7922
50.0	5179	5205	5351	5629	6356	7338	8789	9494	8244	8772
52.5	4240	4259	4453	4773	5644	6922	9230	10689	9370	9965
55.0	3306	3329	3487	3856	4676	6159	9319	11817	10567	11406
57.5	2488	2503	2621	2933	3596	5100	8884	12664	11744	12971
60.0	1817	1827	1905	2075	2556	3866	7866	13000	12787	14418
62.5	1367	1374	1383	1478	1792	2630	6505	12557	13483	15279
65.0	1072	1068	1086	1143	1317	1742	4927	11126	13387	15107
67.5	835	855	867	922	1050	1243	3409	8641	12082	12955
70.0	659	672	683	745	858	972	2112	5765	9316	8657
72.5	478	498	503	580	681	775	1300	3501	5435	3932
75.0	293	321	295	389	505	611	842	2152	2624	1486
77.5	251	278	215	215	278	435	590	1355	1354	753
80.0	263	275	200	164	169	256	383	848	764	475
82.5	264	264	171	122	119	166	200	495	457	295
85.0	232	224	136	84	79	104	112	164	219	151
87.5	93	103	71	40	35	40	35	37	47	48
90.0	16	16	13	8	3	2	0	1	4	4
92.5	7	7	6	4	1	0	0	0	1	2
95.0	7	6	5	4	1	0	0	0	0	1
97.5	6	6	5	3	1	0	0	0	0	0
100.0	5	5	4	3	1	0	0	0	0	0
102.5	5	5	4	3	1	0	0	0	0	0
105.0	5	5	4	3	2	1	0	0	0	1
107.5	5	5	4	3	2	1	0	0	0	1
110.0	5	6	5	4	2	1	0	0	0	1
112.5	6	6	6	5	3	1	0	0	0	1
115.0	7	7	6	5	3	2	0	0	1	1
117.5	8	8	7	6	4	2	0	0	1	1
120.0	9	9	8	7	5	3	1	1	2	2
122.5	10	9	9	8	5	3	1	1	2	3
125.0	10	10	9	8	6	4	1	1	3	3
127.5	12	10	10	9	7	5	2	2	3	4
130.0	12	12	10	9	7	5	2	2	4	5

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CANDELA TABULATION - (Cont.)

132.5	12	12	10	9	7	5	2	2	4	5
135.0	9	9	8	7	5	4	1	1	3	3
137.5	5	4	3	2	2	1	0	0	0	1
140.0	2	1	1	1	0	0	0	0	0	0
142.5	1	1	1	0	0	0	0	0	0	0
145.0	1	1	1	0	0	0	0	0	0	0
147.5	1	1	1	0	0	0	0	0	0	0
150.0	1	1	0	0	0	0	0	0	0	0
152.5	1	1	0	0	0	0	0	0	0	0
155.0	1	1	0	0	0	0	0	0	0	0
157.5	1	1	0	0	0	0	0	0	0	0
160.0	1	1	0	0	0	0	0	0	0	0
162.5	1	1	0	0	0	0	0	0	0	0
165.0	1	1	0	0	0	0	0	0	0	0
167.5	1	1	0	0	0	0	0	0	0	0
170.0	1	1	0	0	0	0	0	0	0	0
172.5	1	1	0	0	0	0	0	0	0	0
175.0	1	1	1	1	0	0	0	0	0	0
177.5	1	1	1	1	0	0	0	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

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	1659	1659	1659	1659	1659	1659	1659	1659	1659	1659
2.5	1621	1639	1631	1638	1653	1631	1632	1622	1647	1654
5.0	1565	1576	1573	1498	1548	1559	1557	1529	1533	1493
7.5	1581	1594	1605	1582	1567	1497	1395	1410	1423	1420
10.0	1710	1663	1609	1631	1525	1477	1401	1383	1313	1348
12.5	1800	1807	1756	1727	1591	1467	1400	1424	1379	1419
15.0	1997	1970	1920	1784	1625	1540	1474	1484	1455	1423
17.5	2199	2153	2079	1919	1709	1611	1589	1533	1523	1509
20.0	2513	2430	2332	2062	1805	1704	1610	1625	1643	1659
22.5	2861	2747	2647	2301	1978	1837	1738	1727	1797	1906
25.0	3257	3133	2999	2602	2276	1943	1828	1906	2012	2177
27.5	3737	3624	3452	2996	2555	2070	2016	2158	2365	2533
30.0	4208	4150	3884	3307	2794	2298	2287	2445	2662	2834
32.5	4777	4651	4367	3704	3038	2628	2653	2760	3046	3311
35.0	5336	5294	4979	4140	3244	2923	3019	3125	3365	3628
37.5	5973	5899	5612	4604	3570	3256	3296	3470	3568	3893
40.0	6564	6441	6174	5055	3835	3578	3580	3652	3715	3956
42.5	6932	6880	6578	5294	4050	3810	3726	3749	3681	3778
45.0	7390	7371	6954	5458	4191	3865	3703	3630	3468	3453
47.5	8046	8030	7492	5598	4282	3840	3542	3374	3152	3064
50.0	8912	8852	8114	5720	4333	3734	3336	3048	2773	2661
52.5	10008	9905	8765	5784	4329	3580	3060	2710	2416	2301
55.0	11470	11150	9436	5784	4269	3382	2795	2454	2152	2027
57.5	13101	12421	9939	5671	4128	3151	2555	2238	1914	1813
60.0	14407	12992	9909	5329	3852	2857	2324	2024	1679	1585
62.5	15146	12772	9182	4672	3399	2472	2027	1787	1430	1328
65.0	14395	11293	7583	3712	2781	2032	1695	1512	1168	1054
67.5	11830	8466	5420	2621	2029	1568	1340	1211	900	800
70.0	7545	5118	3225	1721	1454	1158	1054	933	708	644
72.5	3382	2364	1686	1155	1066	892	824	731	560	496
75.0	1276	1050	922	843	802	712	663	547	411	341
77.5	659	586	602	648	635	579	502	375	260	245

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CANDELA TABULATION - (Cont.)

80.0	431	396	385	499	512	433	318	260	227	223
82.5	260	233	228	383	384	262	220	229	287	282
85.0	131	119	123	239	184	166	175	227	326	285
87.5	44	41	43	67	67	79	93	126	188	175
90.0	4	4	6	10	17	22	22	18	7	10
92.5	2	2	4	8	16	20	20	16	6	8
95.0	1	0	3	7	13	17	16	13	5	7
97.5	1	0	3	6	10	13	12	8	4	6
100.0	0	0	2	5	7	8	7	6	3	6
102.5	0	1	2	4	6	6	5	5	3	5
105.0	0	1	2	4	5	5	4	4	4	5
107.5	0	1	2	4	4	4	4	4	4	5
110.0	1	2	2	4	4	4	4	4	4	6
112.5	1	2	3	4	5	4	4	4	4	6
115.0	1	2	3	4	5	5	4	4	5	7
117.5	2	3	3	4	5	5	5	5	5	7
120.0	2	3	4	5	6	6	6	6	6	8
122.5	3	4	5	6	6	6	6	7	7	9
125.0	4	5	5	6	6	6	7	7	8	10
127.5	5	5	6	6	6	6	6	7	9	10
130.0	5	5	6	6	7	7	7	7	9	12
132.5	5	5	6	7	7	7	7	8	10	13
135.0	3	4	4	5	6	6	6	7	9	12
137.5	1	1	2	3	3	3	4	5	6	8
140.0	0	0	0	0	1	2	2	3	4	5
142.5	0	0	0	0	1	2	2	3	4	5
145.0	0	0	0	0	1	1	2	3	4	4
147.5	0	0	0	0	1	2	2	3	4	4
150.0	0	0	0	0	1	2	3	4	4	5
152.5	0	0	0	0	1	2	2	3	4	4
155.0	0	0	0	0	1	2	3	4	4	4
157.5	0	0	0	0	1	2	3	4	4	4
160.0	0	0	0	0	1	2	2	3	3	3
162.5	0	0	0	0	1	2	2	3	3	3
165.0	0	0	0	0	0	1	2	3	3	3
167.5	0	0	0	0	0	1	2	3	3	3
170.0	0	0	0	0	0	1	2	2	3	3
172.5	0	0	0	0	0	1	1	2	2	3
175.0	0	0	0	0	0	1	1	2	3	3
177.5	0	0	0	0	0	1	1	2	2	3
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1659	1659
2.5	1659	1649
5.0	1514	1507
7.5	1437	1456
10.0	1360	1378
12.5	1418	1458
15.0	1480	1528
17.5	1592	1608
20.0	1778	1749
22.5	1934	2009
25.0	2252	2287

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CANDELA TABULATION - (Cont.)

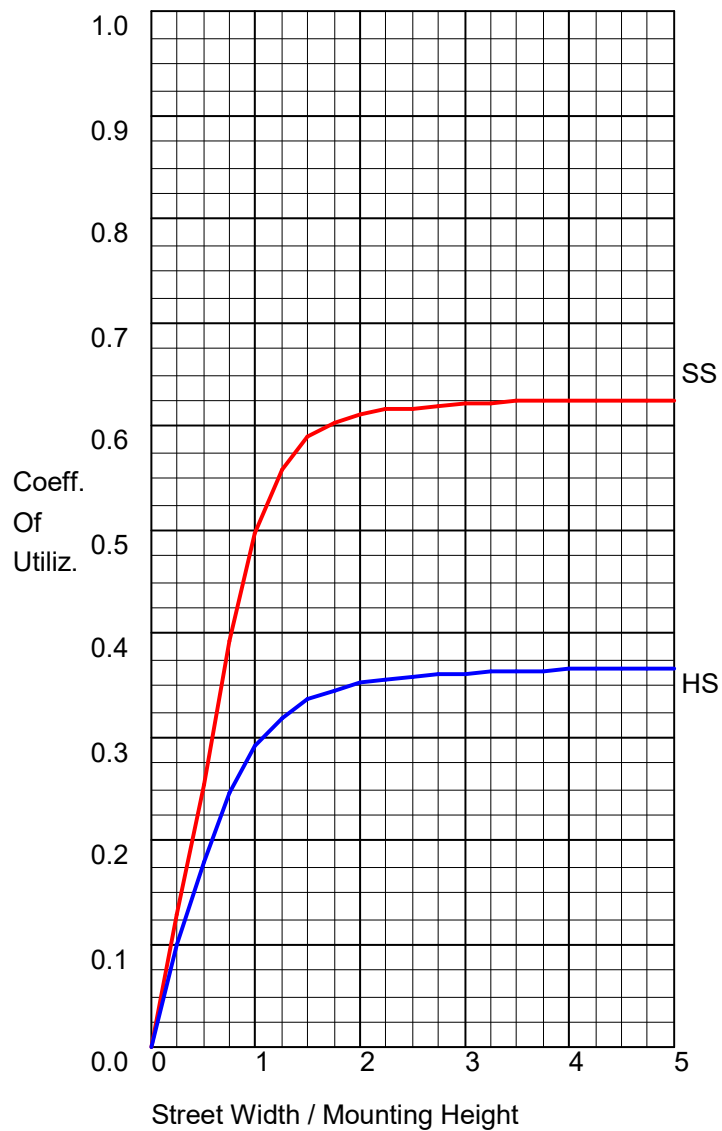
27.5	2609	2651
30.0	2962	3042
32.5	3444	3464
35.0	3774	3773
37.5	4072	4072
40.0	4054	4027
42.5	3826	3819
45.0	3475	3424
47.5	3026	2991
50.0	2605	2582
52.5	2270	2245
55.0	1991	1973
57.5	1776	1748
60.0	1531	1507
62.5	1275	1247
65.0	986	975
67.5	762	749
70.0	644	639
72.5	537	537
75.0	380	385
77.5	290	297
80.0	255	258
82.5	310	312
85.0	299	304
87.5	158	147
90.0	8	8
92.5	7	7
95.0	7	7
97.5	6	6
100.0	6	6
102.5	6	6
105.0	6	6
107.5	6	6
110.0	6	6
112.5	6	6
115.0	7	7
117.5	7	7
120.0	8	8
122.5	9	9
125.0	10	10
127.5	12	12
130.0	12	12
132.5	12	12
135.0	12	12
137.5	8	8
140.0	6	5
142.5	5	5
145.0	5	5
147.5	5	5
150.0	5	5
152.5	5	5
155.0	5	5
157.5	4	4
160.0	3	3
162.5	3	3
165.0	3	3

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CANDELA TABULATION - (Cont.)

167.5	3	3
170.0	2	3
172.5	2	2
175.0	3	3
177.5	3	3
180.0	1	1

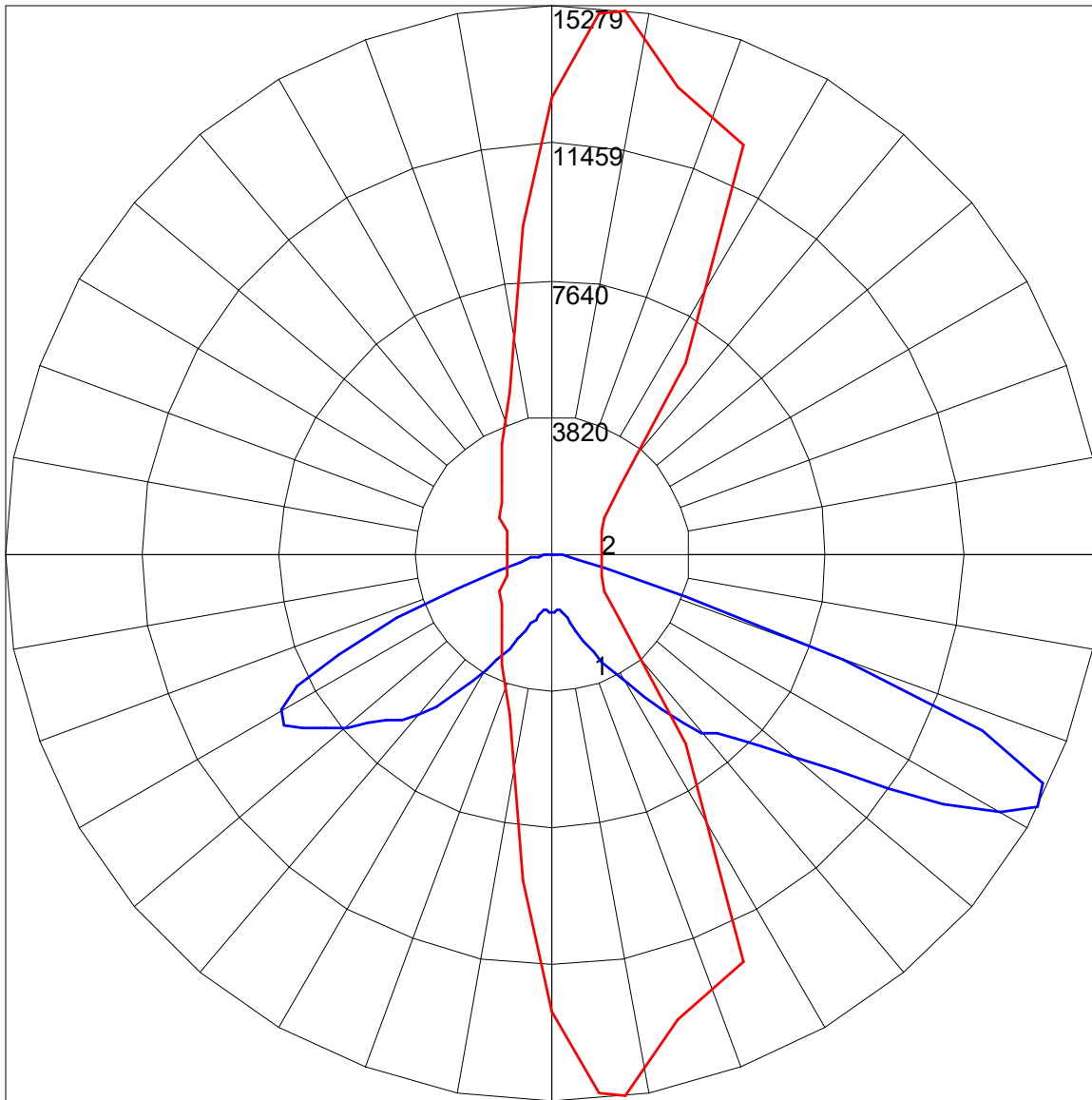
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

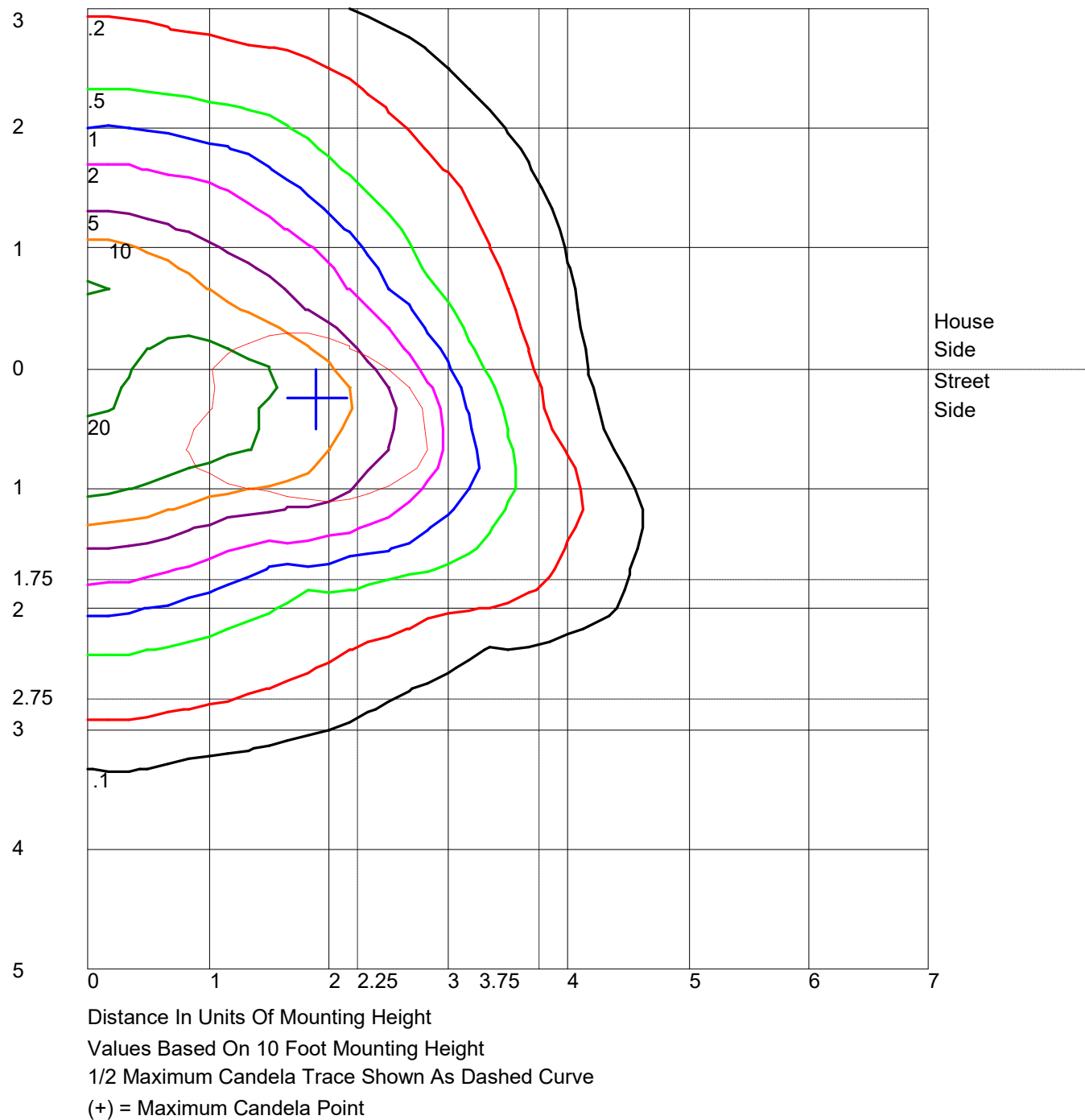
	Lumens	Percent Of Luminaire
Downward Street Side	11943.9	62.8
Downward House Side	7041.6	37.0
Downward Total	18985.5	99.9
Upward Street Side	7.7	0.0
Upward House Side	17.4	0.1
Upward Total	25.1	0.1
Total Flux	19010.6	100.0

POLAR GRAPH

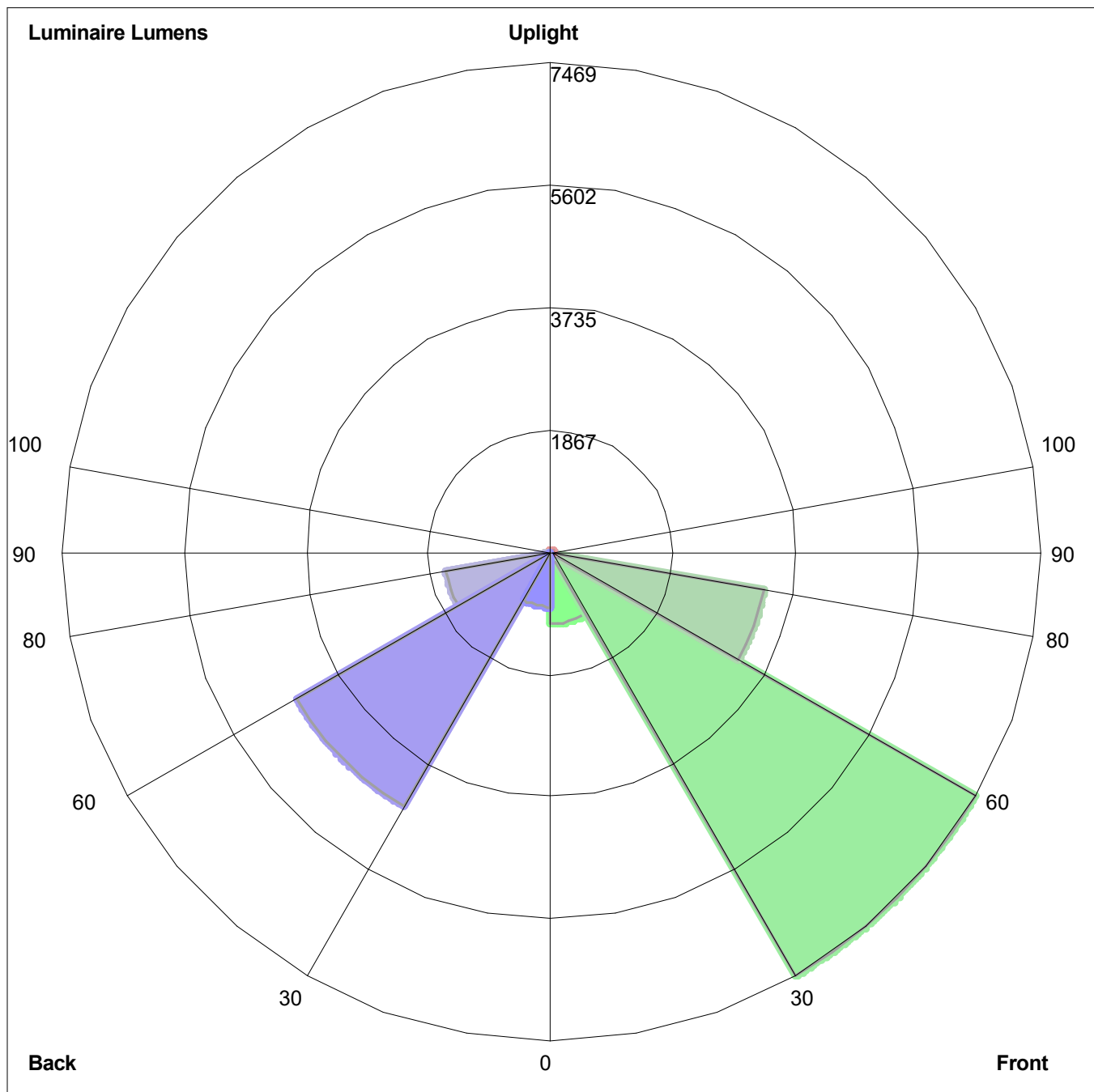


Maximum Candela = 15279 Located At Horizontal Angle = 82.5, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1090.6, Medium=7469.4, High=3297.8, Very High=86.1
Back: Low=833.4, Medium=4475.9, High=1623.2, Very High=109.2
Uplight: Low=6.5, High=18.5

BUG Rating : B3-U2-G3