



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-18L-30-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11751
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/24/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-5W-LED-18L-30-IL
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10349
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7481
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	7481
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 67.5V
Maximum Candela At 90 Degrees Vertical	13 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	336 (3.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	580.1	N.A.	5.6
FM - Front-Medium (30-60)	4676.4	N.A.	45.2
FH - Front-High (60-80)	3042.0	N.A.	29.4
FVH - Front-Very High (80-90)	37.2	N.A.	0.4
BL - Back-Low (0-30)	329.5	N.A.	3.2
BM - Back-Medium (30-60)	1222.1	N.A.	11.8
BH - Back-High (60-80)	433.1	N.A.	4.2
BVH - Back-Very High (80-90)	7.1	N.A.	0.1
UL - Uplight-Low (90-100)	5.2	N.A.	0.1
UH - Uplight-High (100-180)	15.9	N.A.	0.2
Total	10348.6	N.A.	100.0
BUG Rating	B2-U2-G2		

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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>47.5</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	610	610	610	610	610	610	610	610	610	610
2.5	629	625	631	632	632	628	625	628	618	612
5.0	631	636	641	637	656	621	615	617	607	594
7.5	649	663	687	635	644	623	629	627	651	648
10.0	717	716	745	673	703	706	727	711	685	693
12.5	819	863	807	794	826	804	818	804	773	765
15.0	918	983	945	981	999	953	960	949	911	881
17.5	1052	1089	1075	1118	1147	1171	1173	1104	1078	1050
20.0	1280	1285	1287	1311	1341	1360	1358	1338	1247	1198
22.5	1440	1443	1499	1558	1551	1592	1626	1608	1461	1398
25.0	1653	1606	1707	1797	1866	1860	1869	1883	1731	1576
27.5	1909	1990	2076	2039	2165	2198	2209	2153	1990	1830
30.0	2255	2203	2249	2380	2404	2558	2589	2491	2302	2091
32.5	2697	2703	2608	2621	2807	2870	2873	2890	2682	2380
35.0	3103	3008	2965	3021	3104	3268	3202	3267	2988	2740
37.5	3498	3472	3343	3331	3441	3594	3513	3597	3327	2929
40.0	3734	3783	3702	3699	3800	3861	3862	3876	3647	3240
42.5	3937	3990	3952	3951	4073	4081	4080	4135	3869	3450
45.0	4145	4183	4133	4203	4292	4350	4355	4311	4051	3623
47.5	4309	4359	4360	4383	4476	4522	4529	4487	4228	3814
50.0	4463	4520	4550	4510	4623	4662	4691	4666	4425	4083
52.5	4630	4678	4710	4663	4810	4860	4887	4889	4651	4281
55.0	4773	4830	4913	4902	5022	5181	5233	5221	4957	4574
57.5	4969	5063	5161	5183	5402	5653	5738	5681	5191	4719
60.0	4954	5011	5276	5370	5766	6162	6175	6031	5303	4764
62.5	4508	4583	4969	5309	5989	6578	6574	6321	5356	4728
65.0	3637	3668	4174	4772	5972	7023	6985	6556	5297	4630
67.5	2078	2108	2644	3619	5311	7388	7481	6838	5341	4389
70.0	448	434	669	1769	3762	6614	6977	6435	4540	3295
72.5	190	197	240	405	1475	4283	4695	4468	2933	1977
75.0	114	119	134	179	363	1482	1970	2166	1453	894
77.5	59	60	70	90	149	292	385	712	670	420
80.0	44	44	46	52	72	111	126	204	336	229
82.5	39	39	41	45	52	63	67	96	172	184
85.0	30	30	32	36	45	53	56	67	94	150
87.5	21	21	22	24	29	36	39	47	68	86
90.0	10	10	10	9	10	10	8	6	9	10
92.5	3	3	2	3	4	4	4	4	4	4
95.0	1	1	1	1	2	4	4	4	4	4
97.5	1	1	1	1	1	2	2	3	3	4
100.0	1	1	1	1	1	2	2	2	2	3
102.5	1	1	1	1	2	2	2	2	2	3
105.0	2	1	1	1	2	2	2	2	2	3
107.5	2	2	1	2	2	2	2	2	2	3
110.0	2	2	2	2	2	2	2	2	2	3
112.5	3	3	2	2	2	2	2	2	3	4
115.0	4	3	3	3	3	3	3	3	3	4
117.5	4	4	4	3	3	3	3	3	3	4
120.0	4	4	4	3	3	4	4	3	4	4
122.5	5	5	4	4	4	4	4	4	4	4
125.0	5	5	5	4	4	4	4	4	4	5
127.5	5	5	5	4	4	4	4	4	4	5
130.0	5	5	5	5	4	4	4	4	4	5

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CANDELA TABULATION - (Cont.)

132.5	5	5	5	5	4	4	4	4	4	5
135.0	5	5	5	4	4	4	4	4	4	4
137.5	3	3	2	2	2	2	2	2	3	4
140.0	0	1	1	1	1	1	1	1	1	2
142.5	1	1	1	1	1	1	1	1	1	2
145.0	0	0	1	1	1	1	1	1	1	2
147.5	0	0	1	1	1	1	1	1	1	2
150.0	0	0	1	1	1	1	1	1	1	2
152.5	0	0	1	1	1	1	1	1	1	2
155.0	0	1	1	1	1	1	1	1	1	2
157.5	0	1	1	1	1	1	1	1	1	1
160.0	0	0	1	1	1	1	1	1	1	1
162.5	0	0	1	1	1	1	1	1	1	1
165.0	0	0	1	1	1	1	1	1	1	1
167.5	0	1	1	1	1	1	1	1	1	1
170.0	0	1	1	1	1	1	1	1	1	1
172.5	1	1	1	1	1	1	1	1	1	1
175.0	1	1	1	1	1	1	1	1	1	1
177.5	1	1	1	1	1	1	1	1	1	1
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	610	610	610	610	610	610	610	610	610	610
2.5	608	609	611	606	601	597	597	602	599	592
5.0	589	588	573	566	575	568	555	560	548	539
7.5	611	613	603	603	572	536	508	514	496	505
10.0	645	628	623	638	555	540	516	493	478	487
12.5	721	708	690	645	580	550	527	535	532	547
15.0	801	773	746	676	607	594	602	611	601	589
17.5	927	882	834	741	659	671	695	670	640	634
20.0	1074	1032	962	826	750	770	759	734	711	681
22.5	1277	1169	1096	948	876	890	846	814	747	712
25.0	1423	1339	1239	1049	1050	1016	954	866	794	679
27.5	1614	1502	1414	1209	1241	1145	1034	912	734	561
30.0	1867	1691	1595	1415	1461	1330	1183	861	556	386
32.5	2039	1891	1762	1649	1674	1528	1195	652	369	264
35.0	2324	2115	1969	1922	1907	1736	1069	438	248	198
37.5	2562	2364	2202	2204	2135	1800	770	289	188	163
40.0	2742	2554	2379	2488	2386	1627	481	210	156	140
42.5	2928	2736	2559	2695	2571	1276	302	171	134	119
45.0	3150	2952	2783	2939	2643	841	221	141	114	101
47.5	3342	3156	2990	3212	2493	512	171	120	96	80
50.0	3570	3404	3243	3501	2099	331	136	100	78	61
52.5	3820	3656	3515	3790	1538	234	112	81	59	43
55.0	4073	3908	3868	4058	956	166	92	62	43	28
57.5	4248	4036	4134	4060	643	119	73	45	29	16
60.0	4299	4074	4207	3570	529	94	56	29	16	7
62.5	4246	4022	4200	2764	499	87	39	16	9	4
65.0	4104	3864	4085	1825	503	109	27	9	7	3
67.5	3735	3546	3790	1056	496	158	19	7	6	4
70.0	2675	2551	2740	536	392	205	19	7	7	4
72.5	1536	1457	1529	187	175	202	16	8	5	3
75.0	665	621	644	101	70	82	14	7	2	1
77.5	305	275	264	62	34	39	10	5	1	1

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CANDELA TABULATION - (Cont.)

80.0	179	154	126	36	23	20	8	5	0	1
82.5	133	111	81	24	18	14	8	5	0	1
85.0	92	71	44	15	13	12	8	5	0	1
87.5	53	27	12	10	12	11	8	5	0	1
90.0	8	4	8	11	13	12	9	6	1	1
92.5	5	4	8	11	14	13	10	7	1	2
95.0	4	3	6	10	12	12	9	5	1	2
97.5	4	3	5	8	10	10	7	5	1	1
100.0	3	4	5	5	8	7	5	5	2	1
102.5	3	4	5	5	5	5	5	4	2	1
105.0	3	4	4	5	5	5	5	4	2	1
107.5	4	4	4	5	5	5	5	4	3	2
110.0	4	4	4	5	5	5	5	4	3	2
112.5	4	4	4	5	5	5	5	4	3	2
115.0	4	4	5	5	5	5	5	4	3	2
117.5	4	5	5	5	5	5	5	4	4	2
120.0	4	5	5	5	5	5	5	4	4	3
122.5	4	5	5	5	5	5	5	5	4	3
125.0	5	5	5	5	5	5	5	5	4	4
127.5	5	5	5	5	5	5	5	5	5	4
130.0	5	5	5	5	5	5	5	5	5	4
132.5	5	5	5	5	5	5	5	5	5	4
135.0	5	5	5	5	5	5	5	5	4	4
137.5	4	4	4	4	5	5	4	4	3	2
140.0	3	3	3	4	4	4	4	3	2	1
142.5	2	3	3	4	4	4	3	3	2	1
145.0	2	3	3	3	3	4	3	2	1	1
147.5	2	3	3	3	3	4	3	2	1	1
150.0	2	3	3	3	3	4	3	2	1	1
152.5	2	3	3	3	3	3	3	2	1	1
155.0	2	2	3	3	3	3	3	2	1	1
157.5	2	2	2	3	3	3	2	2	1	1
160.0	1	2	2	2	2	3	2	1	1	0
162.5	1	2	2	2	2	2	2	1	1	0
165.0	1	2	2	2	2	2	2	1	1	0
167.5	1	1	1	2	2	2	1	1	1	0
170.0	1	1	1	1	2	2	1	1	1	0
172.5	1	1	1	1	1	2	1	1	1	0
175.0	1	1	1	1	1	1	1	1	0	0
177.5	1	1	1	1	1	1	1	1	0	0
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	610	610
2.5	580	580
5.0	527	523
7.5	494	485
10.0	496	476
12.5	555	533
15.0	601	576
17.5	638	606
20.0	681	647
22.5	677	653
25.0	616	607

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CANDELA TABULATION - (Cont.)

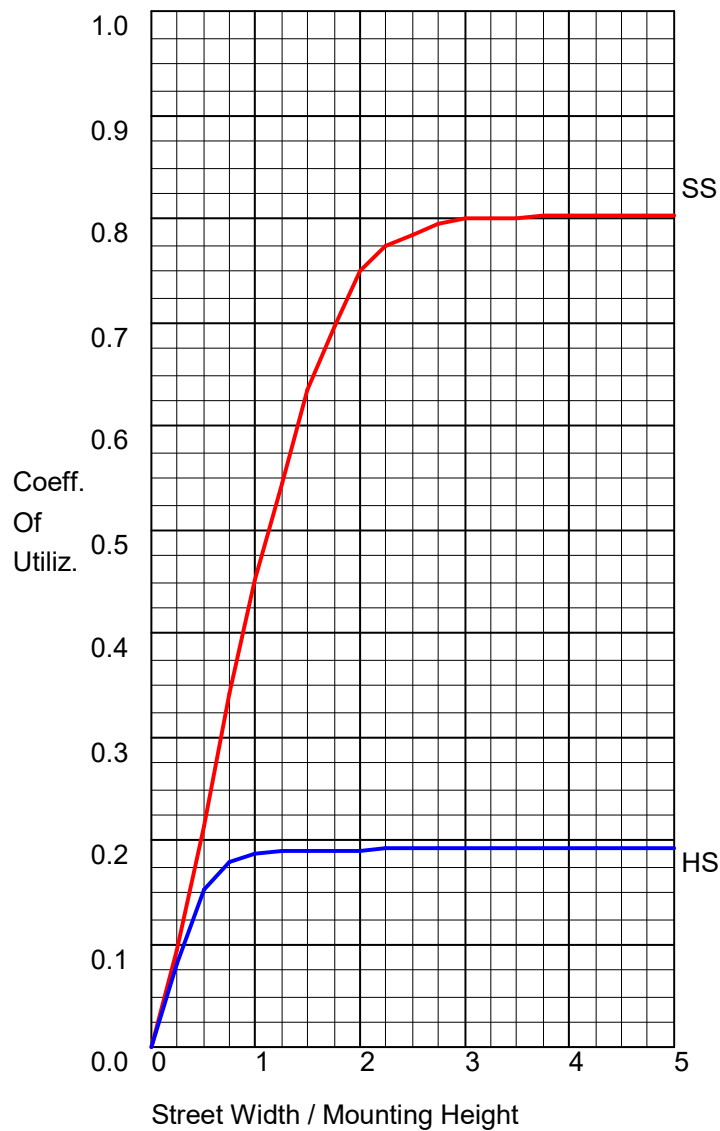
27.5	479	466
30.0	327	307
32.5	229	223
35.0	183	182
37.5	156	156
40.0	134	134
42.5	114	114
45.0	94	94
47.5	75	74
50.0	56	55
52.5	37	37
55.0	24	22
57.5	11	10
60.0	4	4
62.5	1	1
65.0	1	0
67.5	1	1
70.0	3	3
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	1	0
100.0	1	0
102.5	1	1
105.0	1	1
107.5	1	1
110.0	1	1
112.5	1	1
115.0	2	2
117.5	2	2
120.0	2	3
122.5	3	3
125.0	4	4
127.5	4	4
130.0	4	4
132.5	4	4
135.0	4	4
137.5	2	2
140.0	1	1
142.5	1	1
145.0	1	0
147.5	1	0
150.0	1	0
152.5	1	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

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CANDELA TABULATION - (Cont.)

167.5	0	0
170.0	0	0
172.5	0	0
175.0	0	0
177.5	0	0
180.0	1	1

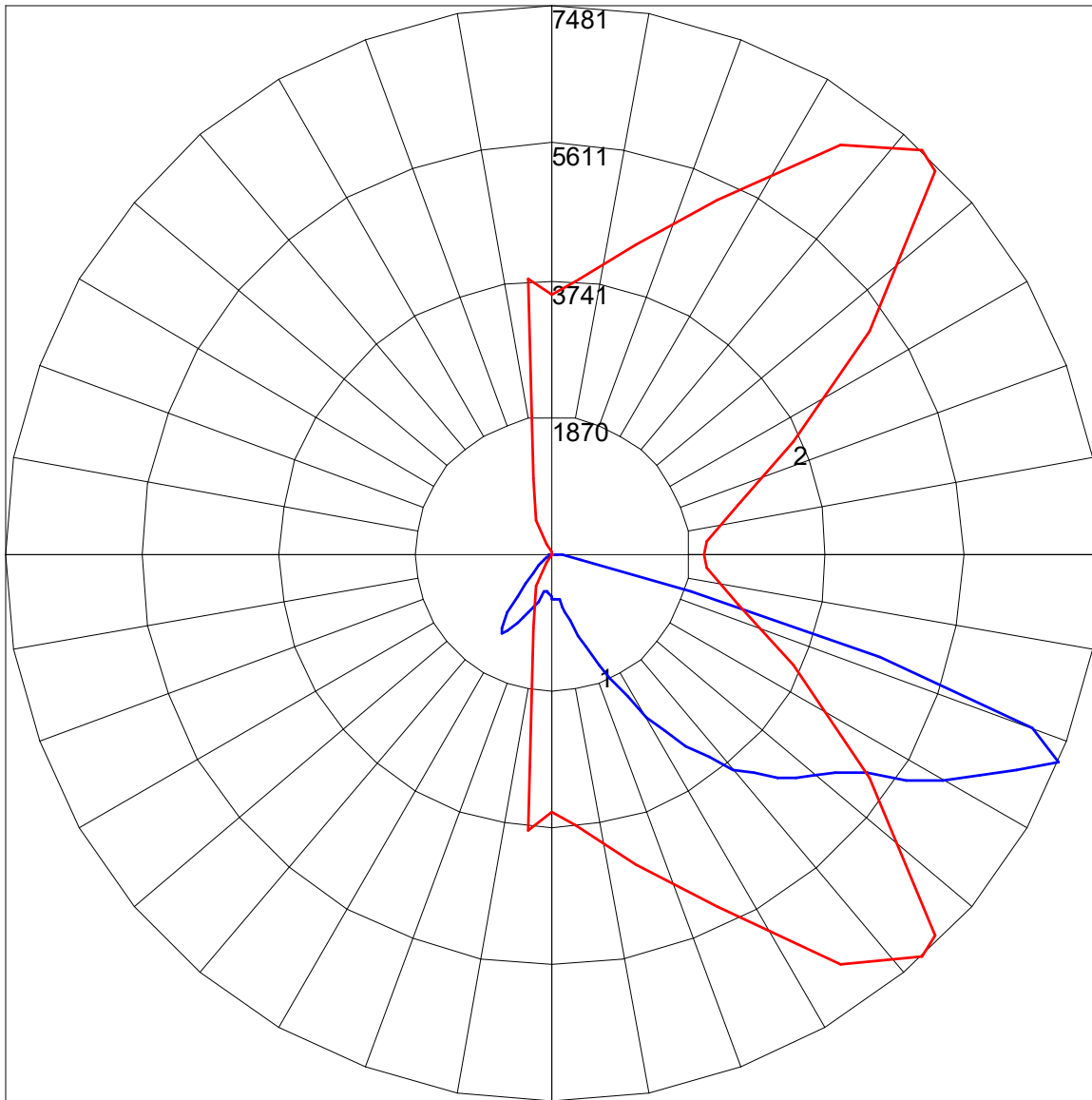
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

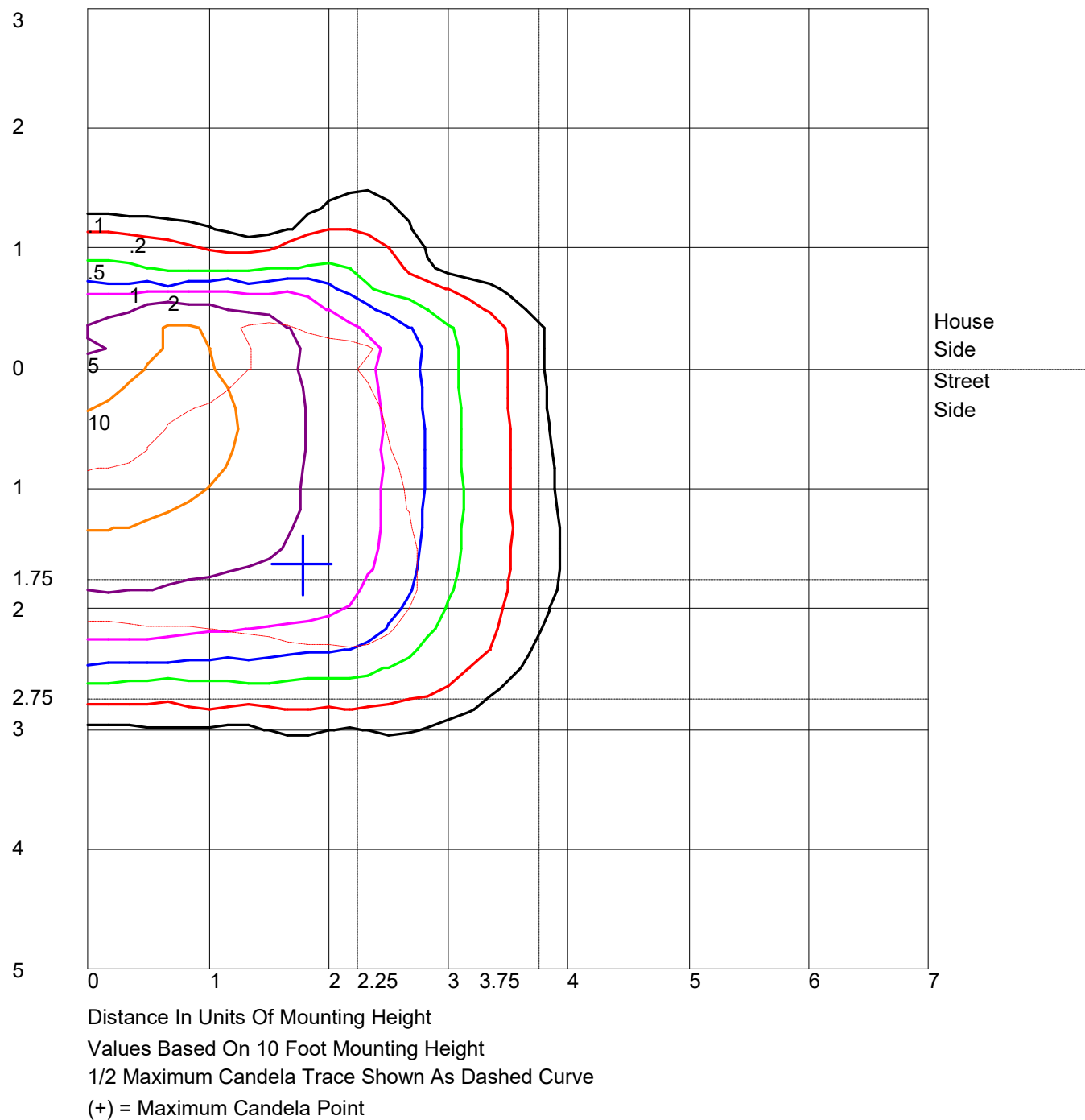
	Lumens	Percent Of Luminaire
Downward Street Side	8335.8	80.5
Downward House Side	1991.8	19.2
Downward Total	10327.6	99.8
Upward Street Side	8.7	0.1
Upward House Side	12.4	0.1
Upward Total	21.1	0.2
Total Flux	10348.7	100.0

POLAR GRAPH

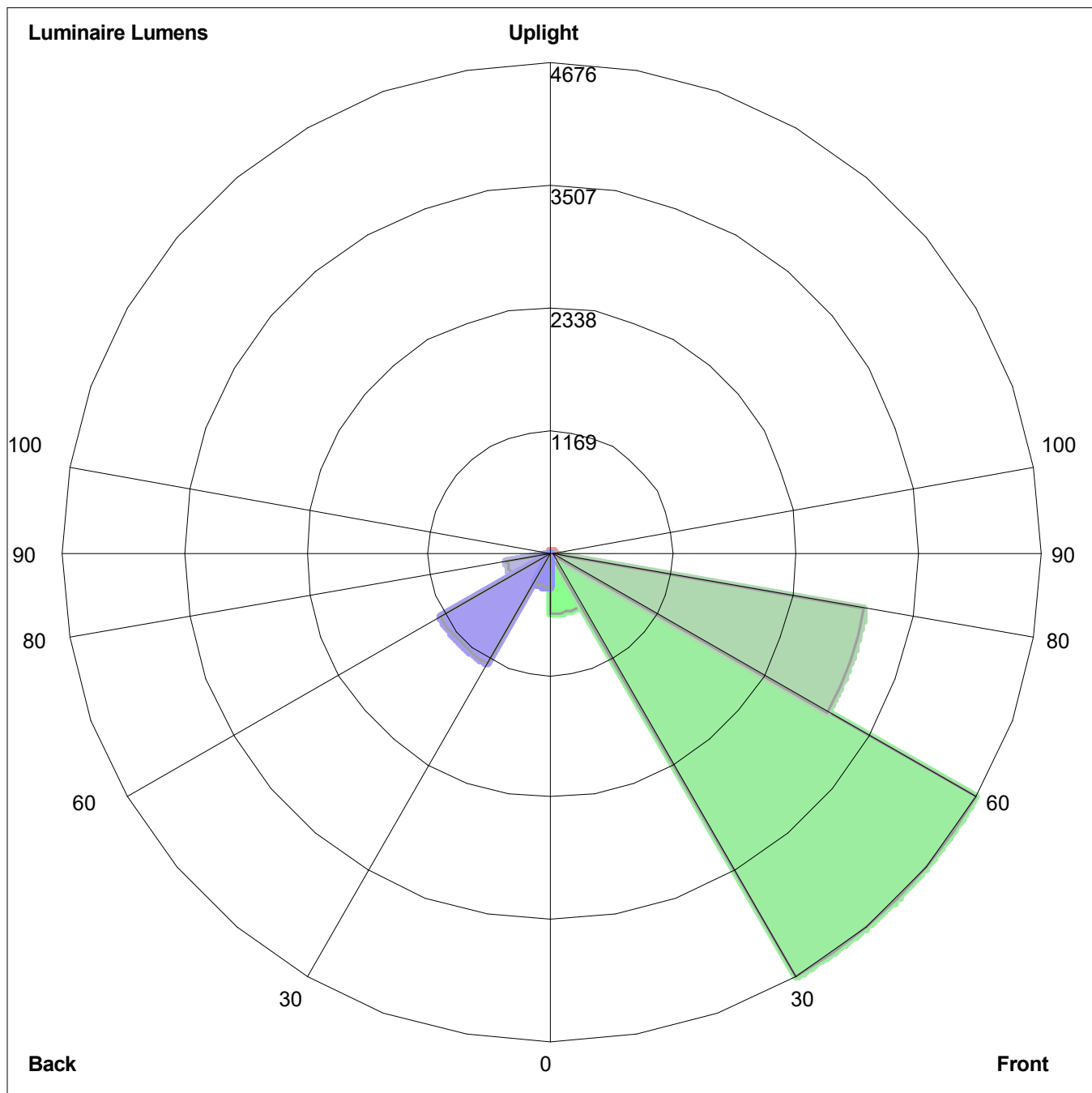


Maximum Candela = 7481 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=580.1, Medium=4676.4, High= 3042.0, Very High=37.2
Back: Low=329.5, Medium=1222.1, High=433.1, Very High=7.1
Uplight: Low=5.2, High=15.9

BUG Rating : B2-U2-G2