



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-5W-LED-25L-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-25L-30-IL
[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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	14537
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	64
Total Luminaire Watts	227.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10509
Maximum Candela Angle	47.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	10509
Maximum Candela Angle (<90 Degrees Vertical)	47.5H 67.5V
Maximum Candela At 90 Degrees Vertical	18 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	471 (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)	814.9	N.A.	5.6
FM - Front-Medium (30-60)	6569.2	N.A.	45.2
FH - Front-High (60-80)	4273.4	N.A.	29.4
FVH - Front-Very High (80-90)	52.3	N.A.	0.4
BL - Back-Low (0-30)	462.9	N.A.	3.2
BM - Back-Medium (30-60)	1716.8	N.A.	11.8
BH - Back-High (60-80)	608.4	N.A.	4.2
BVH - Back-Very High (80-90)	9.9	N.A.	0.1
UL - Uplight-Low (90-100)	7.3	N.A.	0.1
UH - Uplight-High (100-180)	21.6	N.A.	0.1
Total	14536.7	N.A.	100.0
BUG Rating	B2-U2-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	47.5	55.0	65.0	75.0
0.0	857	857	857	857	857	857	857	857	857	857
2.5	885	877	887	887	887	882	878	882	868	859
5.0	887	893	901	895	921	872	864	867	854	834
7.5	912	932	965	892	905	875	884	880	915	910
10.0	1007	1005	1046	946	987	992	1022	998	962	974
12.5	1151	1212	1134	1115	1161	1130	1149	1129	1086	1075
15.0	1291	1382	1327	1379	1402	1339	1348	1333	1280	1237
17.5	1477	1530	1511	1571	1610	1645	1648	1550	1514	1474
20.0	1798	1806	1808	1841	1884	1911	1908	1879	1752	1683
22.5	2023	2026	2105	2188	2178	2235	2284	2259	2053	1965
25.0	2322	2256	2399	2524	2621	2612	2625	2645	2432	2214
27.5	2682	2796	2917	2865	3042	3087	3103	3024	2796	2570
30.0	3167	3095	3160	3343	3378	3594	3636	3499	3234	2937
32.5	3789	3798	3663	3682	3943	4033	4036	4059	3767	3343
35.0	4359	4226	4165	4244	4360	4591	4499	4590	4198	3848
37.5	4914	4878	4696	4680	4834	5048	4936	5054	4674	4114
40.0	5245	5315	5201	5195	5338	5423	5425	5446	5123	4551
42.5	5530	5605	5552	5551	5722	5733	5731	5808	5435	4848
45.0	5824	5876	5806	5905	6030	6111	6118	6057	5690	5089
47.5	6053	6124	6125	6156	6287	6353	6362	6303	5938	5358
50.0	6270	6350	6392	6336	6493	6549	6590	6555	6215	5735
52.5	6503	6572	6617	6550	6756	6827	6866	6868	6533	6015
55.0	6705	6785	6901	6886	7055	7277	7351	7335	6964	6426
57.5	6980	7113	7249	7280	7589	7941	8061	7981	7292	6630
60.0	6958	7039	7411	7543	8100	8657	8674	8473	7450	6692
62.5	6333	6439	6980	7458	8414	9241	9234	8880	7524	6642
65.0	5109	5152	5863	6703	8390	9866	9812	9210	7441	6504
67.5	2919	2961	3714	5085	7461	10379	10509	9606	7503	6166
70.0	629	610	940	2484	5285	9291	9801	9039	6377	4630
72.5	266	276	337	569	2072	6017	6596	6277	4120	2778
75.0	160	167	188	252	510	2082	2768	3043	2041	1255
77.5	83	84	98	127	209	410	541	1001	942	589
80.0	62	62	64	74	102	156	177	287	471	322
82.5	54	54	57	63	74	89	94	134	242	259
85.0	43	43	45	52	63	74	78	94	133	210
87.5	30	29	31	34	41	50	54	65	96	120
90.0	15	15	14	13	14	14	12	9	13	15
92.5	4	4	3	4	5	5	5	5	5	5
95.0	2	2	2	2	3	5	5	5	5	5
97.5	2	2	2	2	2	3	3	4	4	5
100.0	2	2	2	2	2	3	3	3	3	4
102.5	2	2	2	2	3	3	3	3	3	4
105.0	3	2	2	2	3	3	3	3	3	4
107.5	3	3	2	3	3	3	3	3	3	4
110.0	3	3	3	3	3	3	3	3	3	4
112.5	4	4	3	3	3	3	3	3	4	5
115.0	5	4	4	4	4	4	4	4	4	5
117.5	5	5	5	4	4	4	4	4	4	5
120.0	5	5	5	4	4	5	5	4	5	5
122.5	6	6	5	5	5	5	5	5	5	5
125.0	7	7	6	5	5	5	5	5	5	6
127.5	8	7	7	5	5	5	5	5	5	6
130.0	8	8	7	6	5	5	5	5	5	6

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CANDELA TABULATION - (Cont.)

132.5	8	8	7	6	5	5	5	5	5	6
135.0	7	7	6	5	5	5	5	5	5	5
137.5	4	4	3	3	3	3	3	3	4	5
140.0	0	1	1	1	2	2	2	2	2	3
142.5	1	1	1	1	2	2	2	2	2	3
145.0	0	0	1	1	1	2	1	2	2	3
147.5	0	0	1	1	2	2	2	2	2	3
150.0	0	0	1	1	2	2	1	2	2	3
152.5	0	0	1	1	2	1	2	2	2	3
155.0	0	1	1	1	1	1	1	2	2	3
157.5	0	1	1	1	1	1	1	2	2	2
160.0	0	0	1	1	1	1	1	1	2	2
162.5	0	0	1	1	1	1	1	1	1	2
165.0	0	0	1	1	1	1	1	1	1	2
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	857	857	857	857	857	857	857	857	857	857
2.5	855	857	858	851	844	838	838	846	842	831
5.0	827	827	805	796	807	798	778	787	770	758
7.5	858	861	847	847	804	753	714	722	698	710
10.0	906	883	875	896	780	758	725	693	671	685
12.5	1012	994	968	906	815	772	740	752	748	769
15.0	1125	1086	1048	949	852	834	846	858	845	827
17.5	1302	1239	1171	1040	925	943	976	942	899	890
20.0	1508	1449	1352	1161	1054	1081	1065	1032	999	957
22.5	1794	1642	1540	1331	1230	1251	1187	1144	1050	1001
25.0	1999	1881	1740	1473	1475	1427	1340	1216	1116	954
27.5	2267	2111	1986	1699	1744	1608	1453	1281	1032	787
30.0	2623	2376	2241	1987	2053	1868	1661	1209	781	542
32.5	2864	2657	2476	2316	2351	2146	1679	916	520	370
35.0	3265	2972	2766	2699	2679	2438	1501	615	349	278
37.5	3599	3321	3093	3095	3000	2529	1081	406	264	230
40.0	3851	3588	3342	3495	3352	2286	676	295	219	197
42.5	4113	3844	3595	3787	3611	1793	424	240	188	168
45.0	4425	4148	3909	4128	3713	1181	310	199	161	142
47.5	4694	4433	4200	4512	3502	718	240	169	134	113
50.0	5016	4781	4557	4918	2948	465	191	141	109	86
52.5	5366	5136	4938	5324	2160	329	157	114	84	61
55.0	5721	5491	5433	5700	1342	233	129	87	61	40
57.5	5968	5670	5807	5703	904	167	103	63	41	23
60.0	6038	5724	5909	5016	743	133	78	41	24	10
62.5	5964	5651	5900	3882	701	122	55	23	13	5
65.0	5764	5428	5739	2564	706	154	38	13	10	4
67.5	5247	4982	5324	1483	697	222	26	10	9	5
70.0	3758	3584	3848	753	550	289	27	10	10	5
72.5	2157	2046	2147	262	246	284	23	12	8	4
75.0	935	873	905	143	98	115	19	10	3	2
77.5	428	386	371	87	47	55	14	7	1	1

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CANDELA TABULATION - (Cont.)

80.0	252	217	177	52	32	28	11	6	0	1
82.5	187	156	114	33	25	19	11	7	0	1
85.0	130	100	62	21	18	16	12	7	0	1
87.5	74	38	17	15	16	15	12	7	0	2
90.0	12	5	11	15	18	17	13	9	1	2
92.5	6	5	11	15	19	18	15	10	2	3
95.0	5	4	9	15	17	16	13	8	2	3
97.5	5	4	7	11	14	14	10	6	2	2
100.0	4	5	6	8	11	10	8	6	3	2
102.5	4	5	6	7	8	8	7	5	3	2
105.0	4	5	5	6	7	7	7	5	3	2
107.5	5	5	5	6	7	7	6	5	4	3
110.0	5	5	5	6	7	7	6	5	4	3
112.5	5	5	5	6	7	7	6	5	4	3
115.0	5	5	6	7	7	7	6	5	4	3
117.5	5	6	6	7	7	7	6	5	5	3
120.0	5	6	6	7	8	8	7	5	5	4
122.5	5	6	7	7	8	8	7	6	5	4
125.0	6	7	7	8	8	8	7	6	5	5
127.5	7	7	7	8	8	8	7	6	6	5
130.0	7	7	7	8	8	8	7	6	6	5
132.5	7	7	7	8	8	8	7	6	6	5
135.0	6	6	7	7	7	7	7	6	5	5
137.5	5	5	5	5	6	6	5	5	4	3
140.0	4	4	4	5	5	5	5	4	3	2
142.5	3	4	4	5	5	5	4	4	3	2
145.0	3	4	4	4	4	5	4	3	2	2
147.5	3	4	4	4	4	5	4	3	2	2
150.0	3	4	4	4	4	5	4	3	2	1
152.5	3	4	4	4	4	4	4	3	2	1
155.0	3	3	4	4	4	4	4	3	2	1
157.5	3	3	3	4	4	4	3	3	2	1
160.0	2	3	3	3	3	4	3	2	1	0
162.5	2	3	3	3	3	3	3	2	1	0
165.0	2	3	3	3	3	3	3	2	1	0
167.5	2	2	2	3	3	3	2	2	1	0
170.0	2	2	2	2	3	3	2	1	1	0
172.5	2	2	2	2	2	3	2	1	1	0
175.0	2	2	2	2	2	2	2	1	0	0
177.5	2	2	2	2	2	2	2	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	857	857
2.5	815	815
5.0	740	734
7.5	694	681
10.0	697	669
12.5	779	748
15.0	844	810
17.5	897	850
20.0	957	908
22.5	951	917
25.0	865	853

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CANDELA TABULATION - (Cont.)

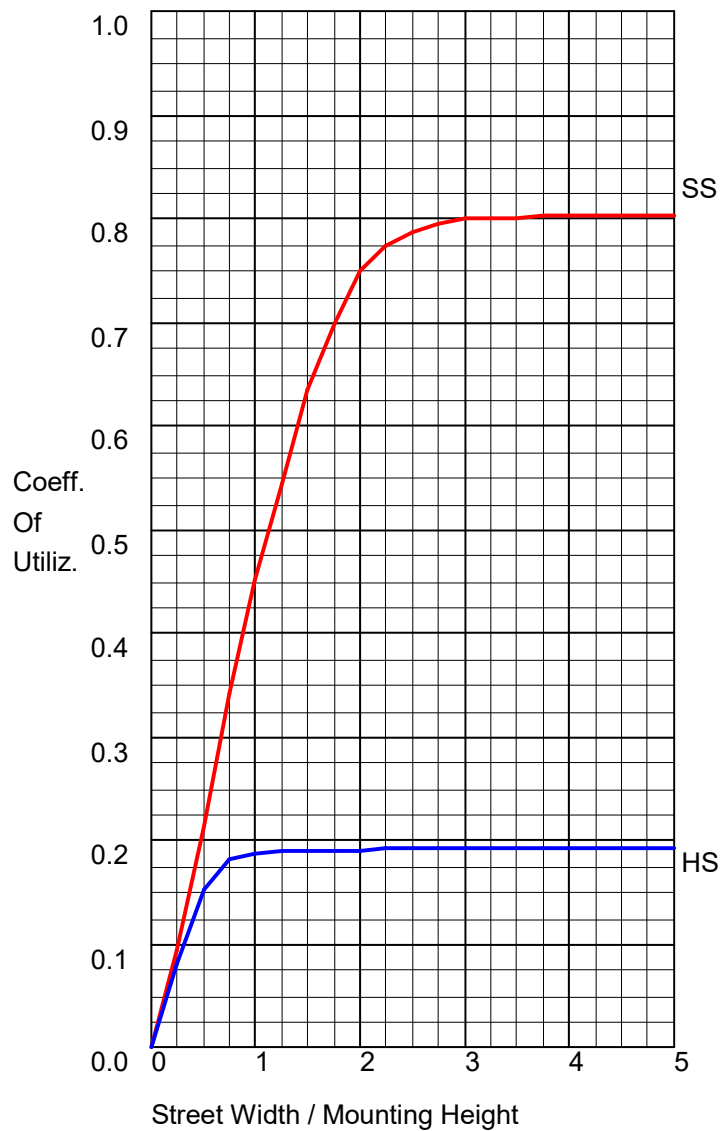
27.5	672	655
30.0	459	431
32.5	322	312
35.0	257	256
37.5	219	219
40.0	188	189
42.5	161	161
45.0	133	133
47.5	105	104
50.0	78	77
52.5	53	53
55.0	33	31
57.5	15	15
60.0	5	5
62.5	2	1
65.0	1	0
67.5	2	2
70.0	4	4
72.5	0	0
75.0	0	0
77.5	0	0
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	0	0
97.5	1	0
100.0	1	0
102.5	1	1
105.0	1	1
107.5	2	2
110.0	2	2
112.5	2	2
115.0	3	3
117.5	3	3
120.0	3	4
122.5	4	4
125.0	5	5
127.5	5	5
130.0	5	5
132.5	5	5
135.0	5	5
137.5	3	3
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

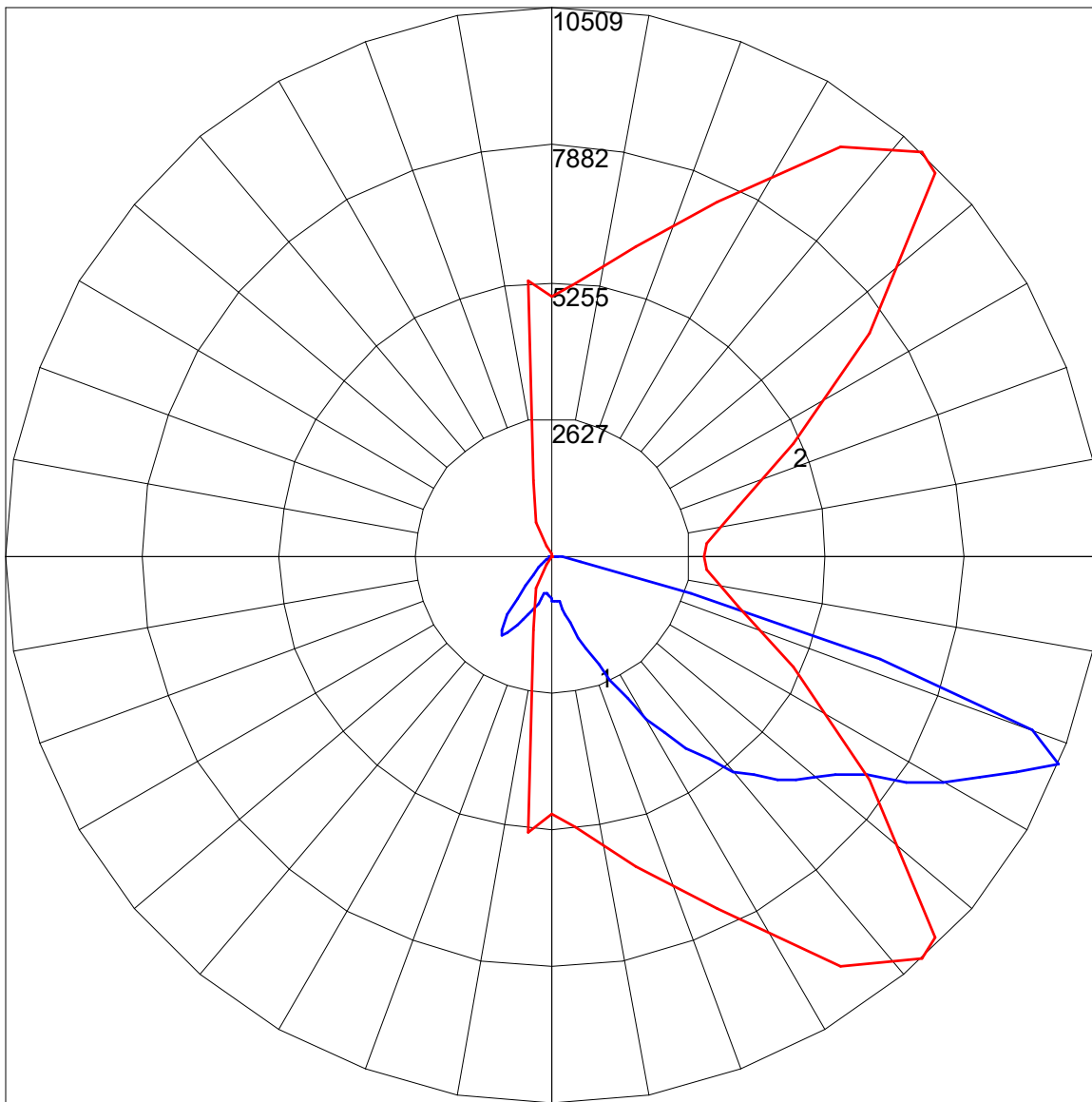
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

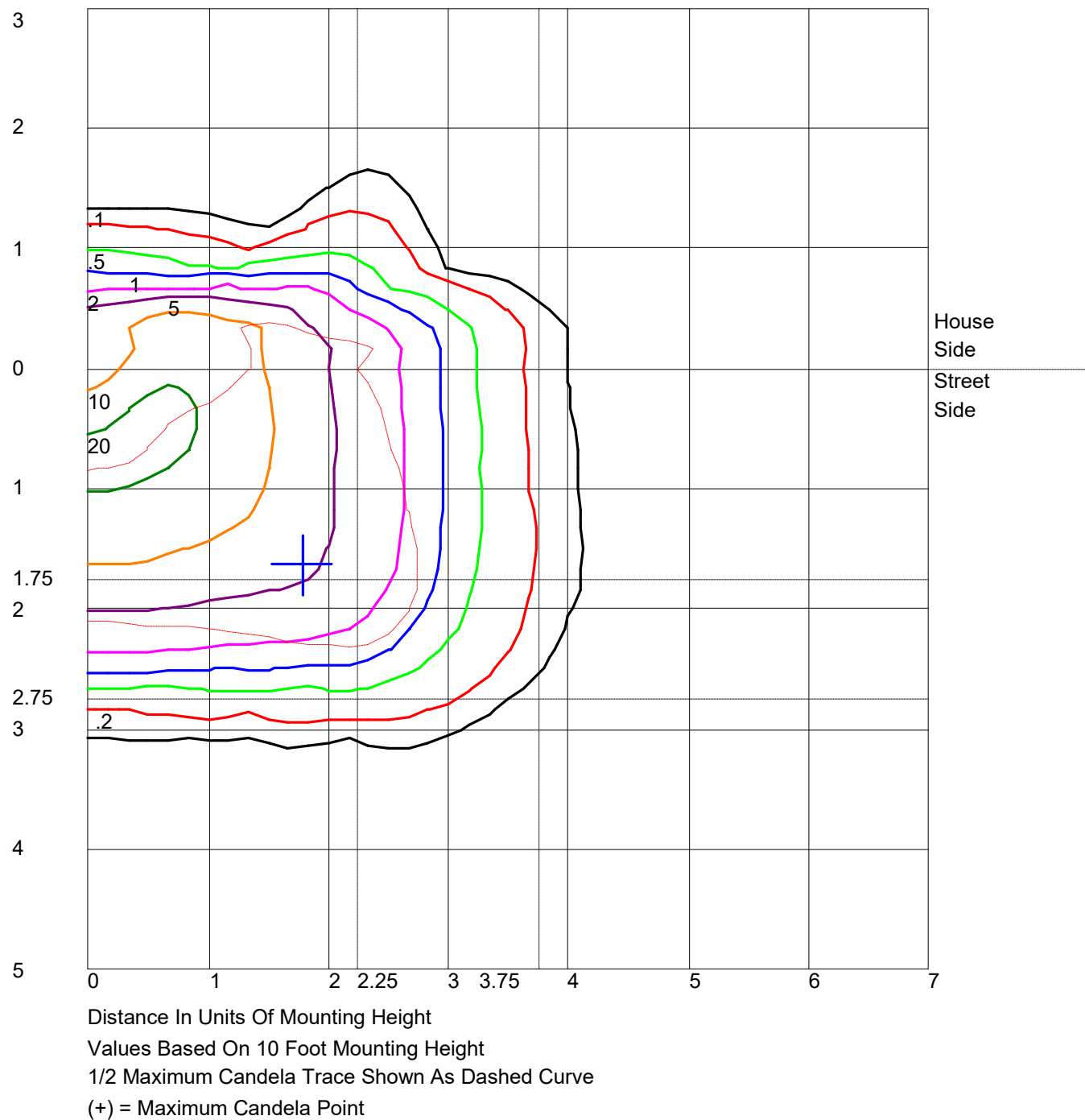
	Lumens	Percent Of Luminaire
Downward Street Side	11709.9	80.6
Downward House Side	2798.0	19.2
Downward Total	14507.9	99.8
Upward Street Side	11.8	0.1
Upward House Side	17.2	0.1
Upward Total	29.0	0.2
Total Flux	14536.9	100.0

POLAR GRAPH

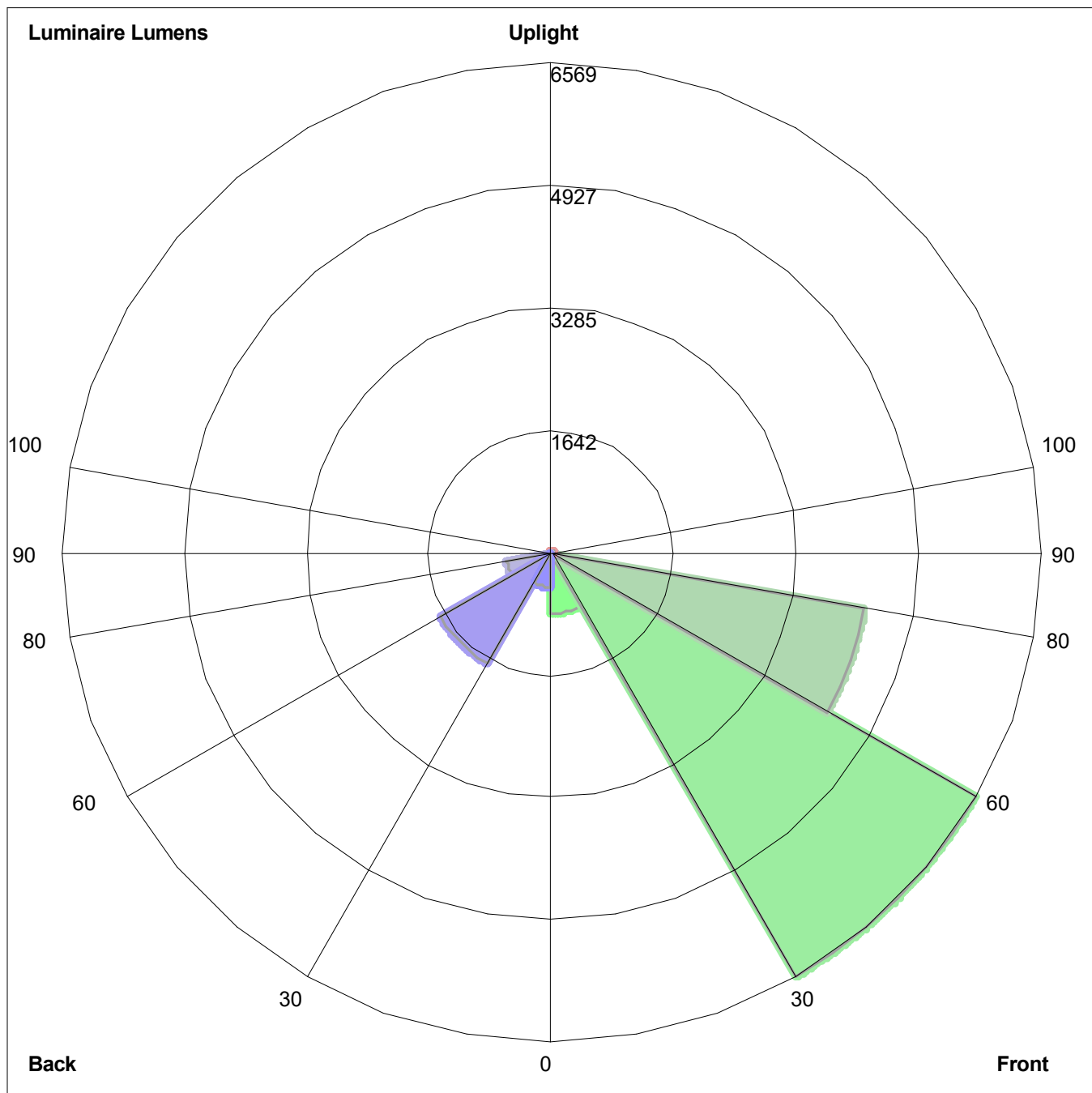


Maximum Candela = 10509 Located At Horizontal Angle = 47.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (47.5 - 227.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=814.9, Medium=6569.2, High=4273.4, Very High=52.3
Back: Low=462.9, Medium=1716.8, High=608.4, Very High=9.9
Uplight: Low=7.3, High=21.6

BUG Rating : B2-U2-G2