



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-25L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11744

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/23/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-2-LED-25L-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	26299
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	228.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	20984
Maximum Candela Angle	80H 60V
Maximum Candela (<90 Degrees Vertical)	20984
Maximum Candela Angle (<90 Degrees Vertical)	80H 60V
Maximum Candela At 90 Degrees Vertical	78 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1200 (4.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1523.9	N.A.	5.8
FM - Front-Medium (30-60)	11117.8	N.A.	42.3
FH - Front-High (60-80)	4402.2	N.A.	16.7
FVH - Front-Very High (80-90)	135.6	N.A.	0.5
BL - Back-Low (0-30)	1285.2	N.A.	4.9
BM - Back-Medium (30-60)	5782.8	N.A.	22.0
BH - Back-High (60-80)	1854.5	N.A.	7.1
BVH - Back-Very High (80-90)	166.3	N.A.	0.6
UL - Uplight-Low (90-100)	8.4	N.A.	0.0
UH - Uplight-High (100-180)	22.0	N.A.	0.1
Total	26298.7	N.A.	100.0
BUG Rating	B4-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	80
0.0	2173	2173	2173	2173	2173	2173	2173	2173	2173	2173
2.5	2172	2159	2185	2238	2238	2230	2221	2207	2178	2142
5.0	2160	2199	2271	2245	2323	2163	2149	2108	2075	2070
7.5	2204	2253	2319	2219	2223	2174	2185	2269	2227	2168
10.0	2281	2319	2431	2205	2319	2352	2375	2372	2330	2259
12.5	2545	2609	2502	2468	2535	2476	2561	2496	2537	2510
15.0	2713	2792	2752	2802	2887	2753	2814	2782	2820	2678
17.5	2826	2925	2872	2951	3060	3140	3070	3125	3198	3073
20.0	3186	3272	3223	3221	3339	3414	3544	3479	3539	3500
22.5	3449	3405	3515	3598	3628	3711	3959	3919	4066	4102
25.0	3835	3742	3887	3943	4061	4076	4446	4621	4642	4658
27.5	4382	4475	4547	4406	4506	4584	4931	5400	5629	5542
30.0	5137	5009	4893	4985	5039	5253	5573	6332	6597	6496
32.5	6010	6167	5725	5476	5729	5841	6436	7538	7892	7746
35.0	7018	6934	6674	6446	6322	6709	7347	8678	9332	9248
37.5	8131	8089	7596	7343	7287	7508	8267	9683	10264	10407
40.0	8630	8672	8567	8402	8276	8359	9005	10139	10977	11070
42.5	8938	8944	8855	8960	9155	9273	9968	10508	11248	11469
45.0	8790	8874	8864	9092	9609	10128	11086	11255	11911	12261
47.5	8312	8355	8448	8816	9669	10664	12289	12412	12807	13392
50.0	7425	7488	7631	8083	9204	10700	13309	13973	13903	14601
52.5	6296	6383	6527	7063	8226	10270	14106	15525	15121	16244
55.0	5077	5074	5271	5847	6952	9209	14413	17083	17017	18369
57.5	3843	3810	3978	4554	5509	7712	14074	17929	18864	20085
60.0	2826	2818	2926	3299	4079	5942	12569	17846	19888	20984
62.5	2145	2133	2172	2425	2872	4192	10424	16531	19759	20443
65.0	1685	1704	1732	1870	2095	2738	7962	14272	18197	18335
67.5	1366	1389	1420	1523	1702	1892	5571	11167	15023	14885
70.0	1071	1110	1130	1225	1413	1475	3389	7866	11209	10457
72.5	789	827	832	938	1123	1186	2044	4928	6823	5550
75.0	516	544	533	631	809	952	1308	3024	3287	2230
77.5	382	417	346	377	495	702	895	1851	1610	1060
80.0	384	424	308	258	298	453	585	1200	912	674
82.5	432	433	276	191	205	299	323	724	589	479
85.0	408	423	229	139	133	189	187	268	303	263
87.5	280	273	147	79	66	83	76	73	80	78
90.0	78	77	38	17	8	7	1	1	3	4
92.5	10	9	8	5	2	0	0	0	1	2
95.0	9	9	7	5	2	0	0	0	0	0
97.5	8	8	6	4	1	0	0	0	0	0
100.0	7	7	5	4	1	0	0	0	0	0
102.5	6	6	5	4	1	0	0	0	0	0
105.0	6	6	5	4	1	0	0	0	0	0
107.5	6	6	5	4	2	0	0	0	0	0
110.0	7	7	6	5	2	1	0	0	0	0
112.5	8	8	7	5	3	1	0	0	0	1
115.0	9	9	8	6	3	1	0	0	0	1
117.5	10	9	9	7	4	2	0	0	1	2
120.0	12	12	10	8	5	2	0	0	2	2
122.5	13	13	12	10	6	3	1	1	2	3
125.0	14	14	12	10	7	4	1	1	3	3
127.5	14	14	13	10	8	5	1	1	3	4
130.0	15	14	13	12	8	5	2	2	4	5

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CANDELA TABULATION - (Cont.)

132.5	15	15	14	12	8	6	2	2	4	5
135.0	14	14	12	10	7	4	1	1	3	4
137.5	7	7	5	4	3	1	0	0	0	1
140.0	2	2	2	1	0	0	0	0	0	0
142.5	2	1	2	1	0	0	0	0	0	0
145.0	2	1	1	0	0	0	0	0	0	0
147.5	2	1	1	0	0	0	0	0	0	0
150.0	2	1	1	0	0	0	0	0	0	0
152.5	2	1	1	0	0	0	0	0	0	0
155.0	2	2	1	0	0	0	0	0	0	0
157.5	2	1	1	0	0	0	0	0	0	0
160.0	2	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	1	0	0	0	0	0	0	0
170.0	1	1	1	0	0	0	0	0	0	0
172.5	1	1	1	0	0	0	0	0	0	0
175.0	1	1	1	1	0	0	0	0	0	0
177.5	2	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</u>	<u>90</u>	<u>95</u>	<u>105</u>	<u>115</u>	<u>125</u>	<u>135</u>	<u>145</u>	<u>155</u>	<u>165</u>
0.0	2173	2173	2173	2173	2173	2173	2173	2173	2173	2173
2.5	2156	2160	2167	2168	2183	2176	2176	2173	2156	2122
5.0	2098	2086	2050	2034	2067	2023	2014	2034	2014	1991
7.5	2122	2154	2109	2121	2054	1935	1814	1876	1831	1881
10.0	2223	2177	2121	2209	1981	1919	1870	1815	1789	1857
12.5	2376	2360	2354	2255	2057	1955	1927	2009	2011	2147
15.0	2585	2564	2487	2326	2093	2094	2159	2272	2339	2367
17.5	2926	2802	2720	2474	2221	2286	2459	2515	2623	2703
20.0	3273	3222	3021	2625	2408	2545	2668	2860	2982	3061
22.5	3903	3663	3461	2966	2687	2810	2971	3261	3341	3554
25.0	4492	4329	4009	3244	3118	3158	3343	3510	3813	4059
27.5	5374	4994	4680	3718	3500	3491	3689	3942	4320	4529
30.0	6464	5848	5399	4166	3959	3975	4168	4422	4600	4798
32.5	7411	6838	6092	4695	4392	4396	4530	4615	4873	5152
35.0	8853	7979	6989	5263	4784	4788	4909	4849	5012	5241
37.5	9960	9163	7856	5726	5188	5041	5030	5062	4990	5307
40.0	10520	9877	8297	6219	5547	5209	5109	5011	4912	5011
42.5	11124	10440	8676	6478	5663	5276	4998	4912	4632	4579
45.0	11911	11090	9128	6709	5737	5154	4799	4600	4231	4125
47.5	13074	11982	9599	6954	5746	4933	4513	4260	3806	3678
50.0	14367	12876	10009	7089	5633	4702	4194	3872	3394	3274
52.5	15946	13752	10349	7059	5450	4354	3871	3537	3056	2894
55.0	17640	14321	10526	6796	5099	3970	3513	3222	2722	2537
57.5	18834	14361	10110	6305	4607	3510	3135	2918	2383	2210
60.0	18863	13480	9020	5500	4035	3053	2810	2608	2107	1950
62.5	17410	11869	7532	4554	3432	2633	2458	2288	1842	1697
65.0	14724	9600	5722	3570	2814	2215	2121	1981	1599	1429
67.5	11123	6955	4022	2627	2248	1825	1801	1684	1343	1229
70.0	7046	4311	2582	1883	1789	1518	1546	1396	1157	1065
72.5	3452	2232	1719	1426	1473	1276	1312	1161	961	875
75.0	1383	1175	1158	1118	1213	1079	1084	939	758	663
77.5	792	753	813	906	983	884	848	683	559	453

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CANDELA TABULATION - (Cont.)

80.0	578	512	531	718	771	666	571	446	483	384
82.5	399	302	318	558	555	416	344	336	519	442
85.0	215	149	166	350	293	240	240	290	499	422
87.5	66	46	57	101	102	107	118	152	293	300
90.0	3	1	4	12	21	28	29	21	6	10
92.5	2	0	3	10	20	26	25	18	5	8
95.0	1	0	3	9	17	21	20	14	5	7
97.5	0	0	3	7	14	16	15	10	4	6
100.0	0	0	3	6	10	12	9	8	4	6
102.5	0	1	3	5	8	8	6	6	4	6
105.0	0	1	3	4	6	6	5	5	4	5
107.5	0	2	3	4	6	5	5	5	5	6
110.0	0	2	3	4	6	5	5	6	5	6
112.5	1	2	3	4	6	6	6	6	6	6
115.0	1	3	3	5	7	6	6	6	6	7
117.5	2	3	4	5	7	7	7	7	7	8
120.0	3	4	5	7	8	8	8	8	8	9
122.5	4	5	6	7	9	9	9	9	9	10
125.0	5	6	7	8	9	9	10	10	10	12
127.5	6	7	7	8	8	9	9	10	12	13
130.0	6	7	7	8	9	9	10	10	13	14
132.5	6	6	7	8	9	9	10	10	13	14
135.0	4	5	5	6	7	8	8	9	10	13
137.5	1	2	2	3	4	4	5	6	7	7
140.0	0	0	0	0	1	2	3	4	5	4
142.5	0	0	0	0	1	2	3	4	4	4
145.0	0	0	0	0	1	2	3	4	4	4
147.5	0	0	0	0	1	2	3	4	4	4
150.0	0	0	0	0	1	2	3	4	5	4
152.5	0	0	0	0	1	2	3	4	4	3
155.0	0	0	0	0	1	2	3	4	4	3
157.5	0	0	0	0	1	2	3	4	4	3
160.0	0	0	0	0	0	1	2	3	3	3
162.5	0	0	0	0	0	1	2	3	3	2
165.0	0	0	0	0	0	1	2	3	3	2
167.5	0	0	0	0	0	1	2	3	3	3
170.0	0	0	0	0	0	0	1	2	3	2
172.5	0	0	0	0	0	0	1	2	2	2
175.0	0	0	0	0	0	0	1	2	2	2
177.5	0	0	0	0	0	0	1	2	2	3
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	175	180
0.0	2173	2173
2.5	2097	2079
5.0	1924	1916
7.5	1858	1835
10.0	1908	1834
12.5	2202	2103
15.0	2545	2453
17.5	2897	2768
20.0	3331	3144
22.5	3670	3635
25.0	4216	4127

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CANDELA TABULATION - (Cont.)

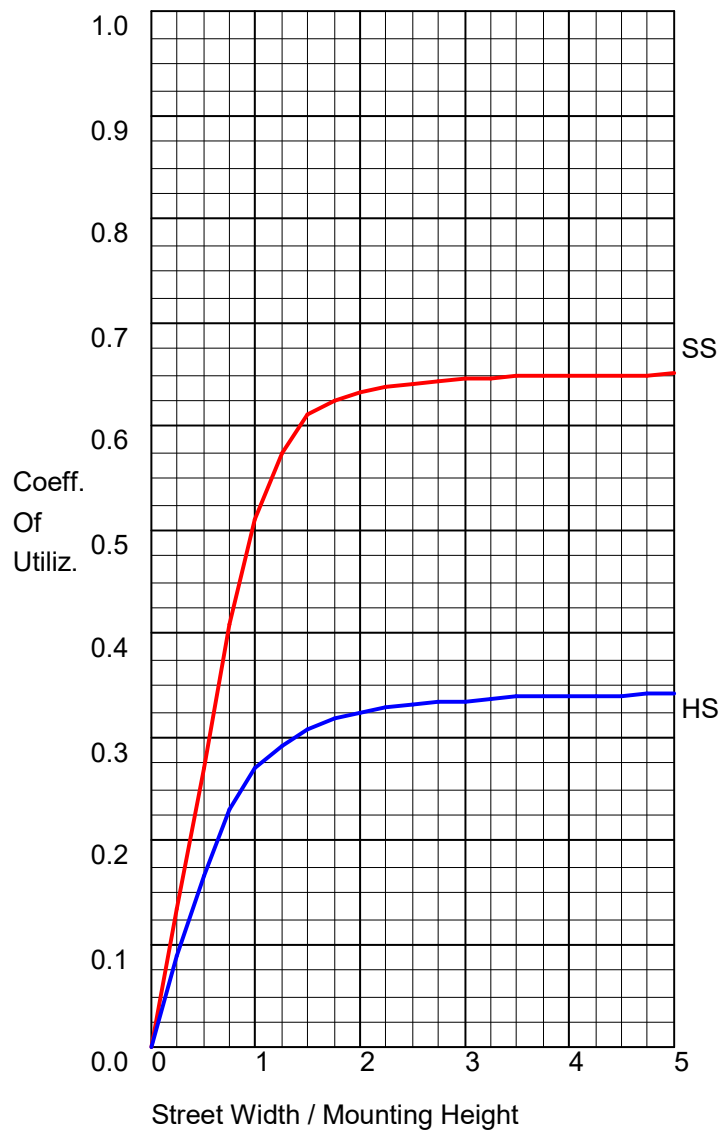
27.5	4639	4593
30.0	4977	4961
32.5	5349	5233
35.0	5384	5276
37.5	5443	5344
40.0	5017	4893
42.5	4578	4475
45.0	4072	3978
47.5	3612	3531
50.0	3207	3118
52.5	2832	2751
55.0	2467	2400
57.5	2159	2110
60.0	1902	1850
62.5	1668	1632
65.0	1458	1444
67.5	1320	1319
70.0	1179	1210
72.5	1012	1053
75.0	749	810
77.5	507	563
80.0	447	509
82.5	506	533
85.0	454	466
87.5	218	300
90.0	7	7
92.5	6	6
95.0	6	6
97.5	5	5
100.0	5	5
102.5	5	5
105.0	4	5
107.5	5	5
110.0	5	6
112.5	6	6
115.0	7	7
117.5	8	8
120.0	9	9
122.5	10	10
125.0	12	12
127.5	12	13
130.0	13	13
132.5	13	14
135.0	12	12
137.5	6	6
140.0	3	3
142.5	3	2
145.0	2	2
147.5	2	2
150.0	2	2
152.5	2	2
155.0	2	1
157.5	1	1
160.0	1	0
162.5	1	0
165.0	1	0

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CANDELA TABULATION - (Cont.)

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

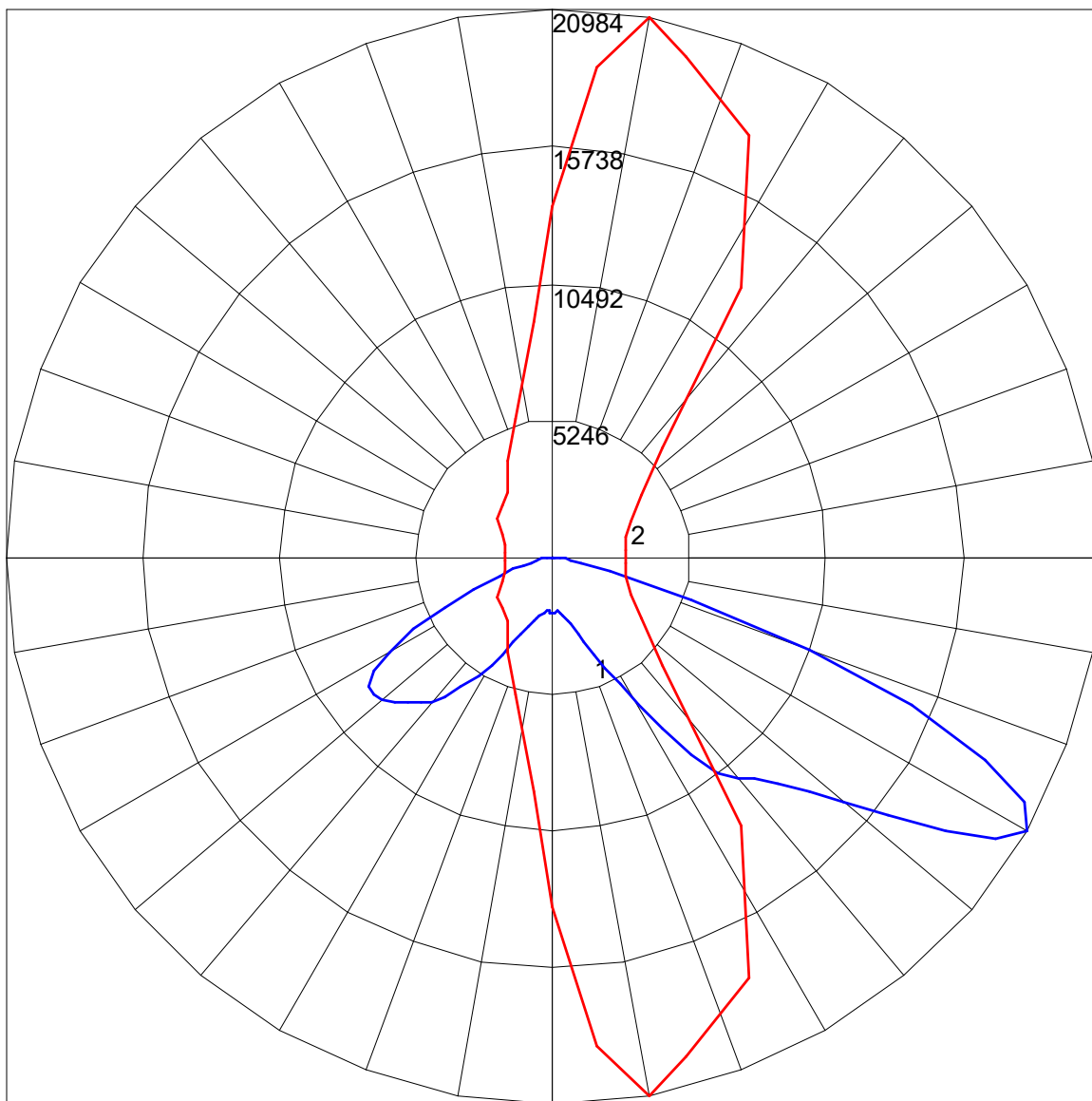
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

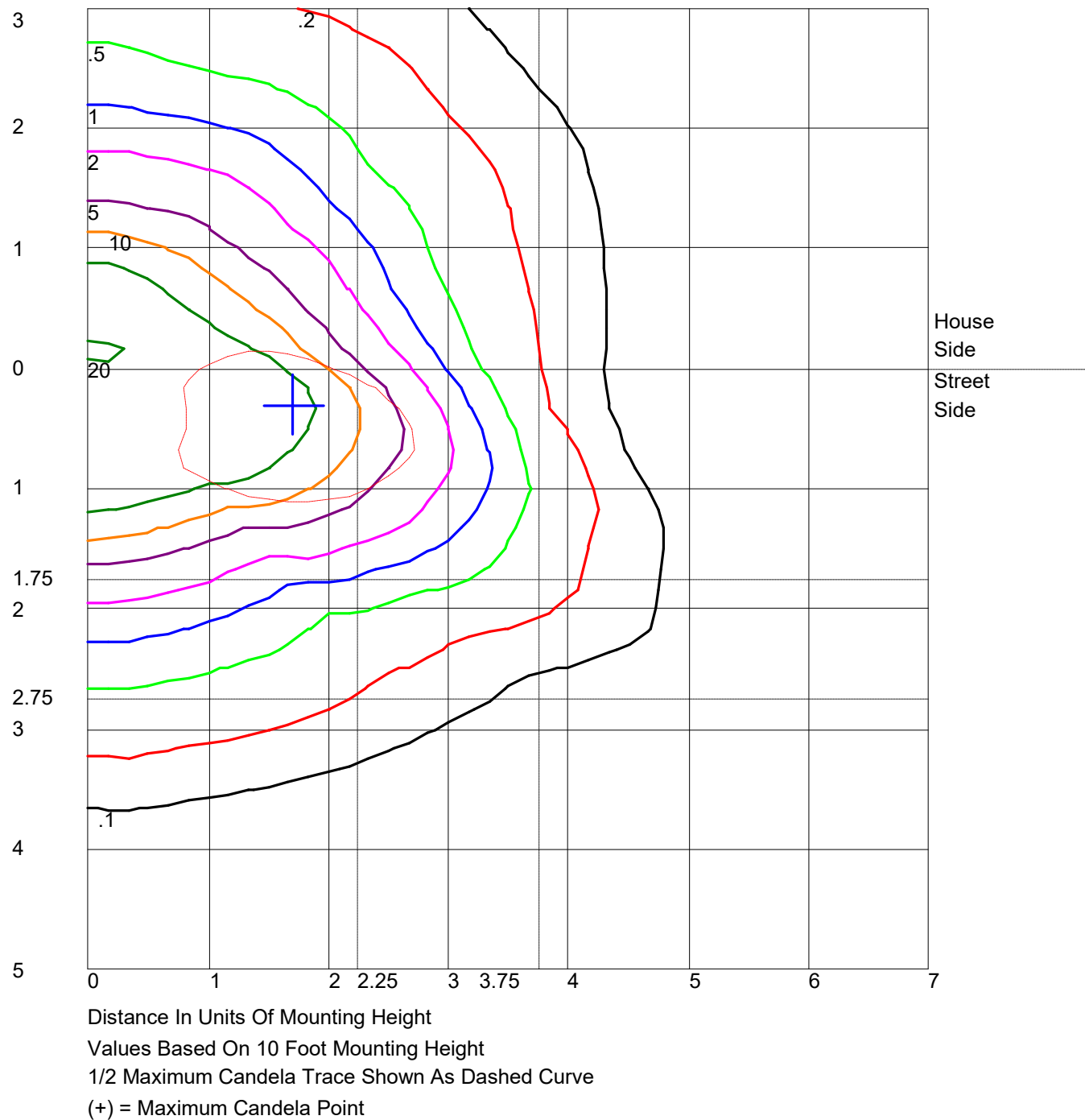
	Lumens	Percent Of Luminaire
Downward Street Side	17179.4	65.3
Downward House Side	9088.8	34.6
Downward Total	26268.2	99.9
Upward Street Side	10.0	0.0
Upward House Side	20.4	0.1
Upward Total	30.4	0.1
Total Flux	26298.6	100.0

POLAR GRAPH

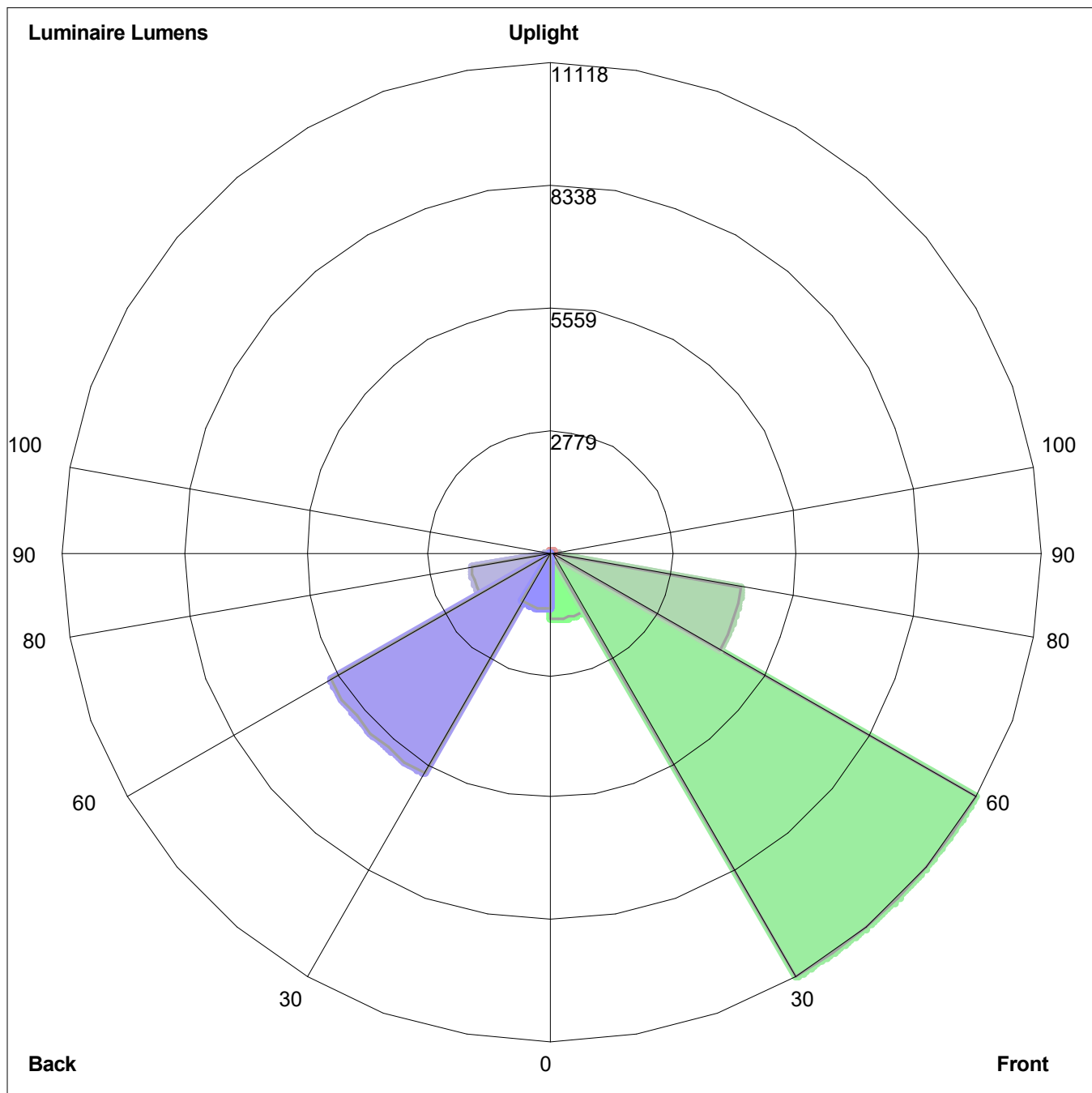


Maximum Candela = 20984 Located At Horizontal Angle = 80, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1523.9, Medium=11117.8, High=4402.2, Very High=135.6
Back: Low=1285.2, Medium=5782.8, High=1854.5, Very High=166.3
Uplight: Low=8.4, High=22.0

BUG Rating : B4-U2-G3