



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-2-LED-05L-40-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11746
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/23/20
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-2-LED-05L-40-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 II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3799
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3884
Maximum Candela Angle	80H 57.5V
Maximum Candela (<90 Degrees Vertical)	3884
Maximum Candela Angle (<90 Degrees Vertical)	80H 57.5V
Maximum Candela At 90 Degrees Vertical	4 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	153 (4.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	293.2	N.A.	7.7
FM - Front-Medium (30-60)	2140.0	N.A.	56.3
FH - Front-High (60-80)	702.7	N.A.	18.5
FVH - Front-Very High (80-90)	14.9	N.A.	0.4
BL - Back-Low (0-30)	159.0	N.A.	4.2
BM - Back-Medium (30-60)	398.7	N.A.	10.5
BH - Back-High (60-80)	82.6	N.A.	2.2
BVH - Back-Very High (80-90)	2.7	N.A.	0.1
UL - Uplight-Low (90-100)	1.2	N.A.	0.0
UH - Uplight-High (100-180)	3.7	N.A.	0.1
Total	3798.7	N.A.	100.0
BUG Rating	B1-U1-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>80</u>
0.0	390	390	390	390	390	390	390	390	390	390
2.5	397	399	398	402	402	402	404	400	394	388
5.0	398	403	412	408	420	392	394	382	372	370
7.5	406	417	423	401	411	394	400	413	404	392
10.0	431	429	447	414	425	433	437	431	420	407
12.5	466	488	471	459	470	463	469	462	459	460
15.0	502	523	514	527	539	513	520	512	520	502
17.5	537	552	547	559	574	597	571	583	594	565
20.0	610	622	619	613	630	641	658	653	665	660
22.5	657	662	677	694	703	707	763	759	783	780
25.0	751	730	750	768	789	786	862	912	918	921
27.5	858	881	890	866	873	900	974	1100	1146	1122
30.0	1000	976	970	975	988	1037	1119	1321	1369	1355
32.5	1180	1196	1121	1079	1120	1163	1309	1603	1678	1663
35.0	1367	1350	1288	1258	1244	1345	1503	1838	1998	1965
37.5	1562	1560	1473	1412	1443	1483	1687	2016	2144	2181
40.0	1650	1654	1626	1598	1606	1658	1833	2088	2248	2255
42.5	1685	1678	1668	1678	1755	1808	2005	2138	2284	2327
45.0	1645	1647	1647	1700	1823	1974	2195	2279	2401	2476
47.5	1523	1520	1551	1635	1795	2041	2386	2515	2579	2691
50.0	1347	1340	1379	1471	1674	2007	2582	2780	2789	2919
52.5	1121	1121	1164	1259	1479	1867	2693	3072	3054	3289
55.0	872	868	913	1028	1237	1642	2704	3316	3374	3629
57.5	623	611	662	768	961	1356	2562	3385	3626	3884
60.0	425	422	463	539	689	1022	2252	3269	3707	3880
62.5	299	301	325	375	466	693	1843	2867	3510	3603
65.0	209	208	228	275	335	442	1395	2412	3033	2996
67.5	136	142	155	195	251	299	947	1807	2404	2298
70.0	86	88	93	129	182	215	576	1234	1684	1483
72.5	63	66	66	82	127	155	298	771	977	743
75.0	44	46	45	53	85	112	166	469	478	296
77.5	29	29	30	33	52	79	100	267	250	159
80.0	19	20	21	21	29	51	63	143	153	108
82.5	19	18	18	17	18	26	37	71	97	83
85.0	14	14	13	13	14	18	22	35	50	50
87.5	8	8	8	8	8	11	13	17	19	18
90.0	3	3	2	2	2	2	1	2	3	2
92.5	1	1	1	1	1	0	0	0	0	0
95.0	1	1	1	1	0	0	0	0	0	0
97.5	1	1	1	1	0	0	0	0	0	0
100.0	1	1	1	1	0	0	0	0	0	0
102.5	1	1	1	1	0	0	0	0	0	0
105.0	1	1	1	1	0	0	0	0	0	0
107.5	1	1	1	1	0	0	0	0	0	0
110.0	1	1	1	1	0	0	0	0	0	0
112.5	1	1	1	1	1	0	0	0	0	0
115.0	1	1	1	1	1	0	0	0	0	0
117.5	1	1	1	1	1	0	0	0	0	0
120.0	2	2	1	1	1	0	0	0	0	0
122.5	2	2	2	1	1	1	0	0	1	1
125.0	2	2	2	1	1	1	0	0	1	1
127.5	2	2	2	2	1	1	0	1	1	1
130.0	3	2	2	2	1	1	0	1	1	1

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CANDELA TABULATION - (Cont.)

132.5	3	2	2	2	1	1	0	1	1	1
135.0	2	2	2	1	1	1	0	1	1	1
137.5	1	1	1	1	1	0	0	0	0	0
140.0	0	0	0	0	0	0	0	0	0	0
142.5	0	0	0	0	0	0	0	0	0	0
145.0	0	0	0	0	0	0	0	0	0	0
147.5	0	0	0	0	0	0	0	0	0	0
150.0	0	0	0	0	0	0	0	0	0	0
152.5	0	0	0	0	0	0	0	0	0	0
155.0	0	0	0	0	0	0	0	0	0	0
157.5	0	0	0	0	0	0	0	0	0	0
160.0	0	0	0	0	0	0	0	0	0	0
162.5	0	0	0	0	0	0	0	0	0	0
165.0	0	0	0	0	0	0	0	0	0	0
167.5	0	0	0	0	0	0	0	0	0	0
170.0	0	0	0	0	0	0	0	0	0	0
172.5	0	0	0	0	0	0	0	0	0	0
175.0	0	0	0	0	0	0	0	0	0	0
177.5	0	0	0	0	0	0	0	0	0	0
180.0	0	0	0	0	0	0	0	0	0	0

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	390	390	390	390	390	390	390	390	390	390
2.5	389	388	390	388	383	386	388	388	385	382
5.0	374	371	364	360	363	362	355	359	353	342
7.5	386	387	379	381	362	344	317	321	316	326
10.0	401	392	380	386	342	333	319	310	294	306
12.5	435	429	420	399	357	334	316	324	325	342
15.0	481	468	440	406	352	342	343	361	369	364
17.5	542	510	485	431	364	364	385	394	393	390
20.0	616	591	548	455	386	401	404	410	385	351
22.5	741	672	629	514	424	432	422	373	303	254
25.0	874	821	737	557	490	461	383	273	196	151
27.5	1056	960	870	628	542	452	299	180	121	102
30.0	1282	1156	1014	704	585	402	212	121	99	90
32.5	1525	1367	1169	777	608	331	144	103	89	83
35.0	1806	1602	1349	859	588	248	120	93	83	79
37.5	2022	1838	1499	921	532	168	109	87	76	71
40.0	2119	1943	1572	973	448	134	98	80	67	62
42.5	2227	2055	1629	975	314	119	89	72	58	50
45.0	2379	2182	1712	949	199	106	80	62	47	40
47.5	2598	2354	1792	866	145	94	68	50	38	31
50.0	2838	2517	1857	723	124	84	57	39	30	24
52.5	3132	2660	1883	537	113	72	45	30	23	18
55.0	3442	2694	1844	362	104	61	35	23	18	13
57.5	3563	2587	1692	255	96	49	26	17	13	8
60.0	3447	2350	1457	208	92	40	19	11	7	4
62.5	3044	1985	1172	172	88	31	14	6	4	2
65.0	2469	1523	852	132	77	25	9	3	3	1
67.5	1763	1061	520	93	58	18	6	2	2	1
70.0	1013	634	286	66	39	12	5	3	2	1
72.5	457	313	161	49	25	7	5	3	2	1
75.0	191	163	100	35	14	6	5	4	2	1
77.5	118	111	64	23	9	6	5	4	2	1

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CANDELA TABULATION - (Cont.)

80.0	93	78	41	12	7	6	6	4	2	1
82.5	67	48	25	6	6	5	5	4	2	1
85.0	38	24	12	3	4	5	5	4	2	1
87.5	13	6	2	2	3	5	4	3	2	1
90.0	1	1	1	1	3	4	4	3	2	1
92.5	0	0	1	1	3	4	4	2	1	1
95.0	0	0	1	1	2	3	3	2	1	1
97.5	0	0	1	1	2	2	2	1	1	1
100.0	0	0	1	1	1	1	1	1	1	1
102.5	0	0	1	1	1	1	1	1	1	1
105.0	0	0	1	1	1	1	1	1	1	1
107.5	0	0	1	1	1	1	1	1	1	1
110.0	0	0	1	1	1	1	1	1	1	1
112.5	0	0	1	1	1	1	1	1	1	1
115.0	0	1	1	1	1	1	1	1	1	1
117.5	1	1	1	1	1	1	1	1	1	1
120.0	1	1	1	1	1	1	1	1	1	1
122.5	1	1	1	1	1	1	1	1	1	1
125.0	1	1	1	1	1	1	1	1	1	1
127.5	1	1	1	1	1	1	1	2	2	2
130.0	1	1	1	1	1	1	1	2	2	2
132.5	1	1	1	1	1	1	1	2	2	2
135.0	1	1	1	1	1	1	1	2	2	2
137.5	0	1	1	1	1	1	1	1	1	1
140.0	0	0	0	0	1	1	1	1	1	1
142.5	0	0	0	0	1	1	1	1	1	1
145.0	0	0	0	0	1	1	1	1	1	1
147.5	0	0	0	0	1	1	1	1	1	1
150.0	0	0	0	0	1	1	1	1	1	1
152.5	0	0	0	0	1	1	1	1	1	1
155.0	0	0	0	0	1	1	1	1	1	1
157.5	0	0	0	0	1	1	1	1	1	1
160.0	0	0	0	0	0	1	1	1	1	1
162.5	0	0	0	0	0	1	1	1	1	1
165.0	0	0	0	0	0	0	1	1	1	1
167.5	0	0	0	0	0	0	1	1	1	1
170.0	0	0	0	0	0	0	0	1	1	1
172.5	0	0	0	0	0	0	0	1	1	1
175.0	0	0	0	0	0	0	0	1	1	1
177.5	0	0	0	0	0	0	0	0	1	1
180.0	0	0	0	0	0	0	0	0	0	0

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	390	390
2.5	378	371
5.0	340	336
7.5	321	314
10.0	314	305
12.5	351	340
15.0	390	383
17.5	408	395
20.0	347	329
22.5	231	228
25.0	133	130

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CANDELA TABULATION - (Cont.)

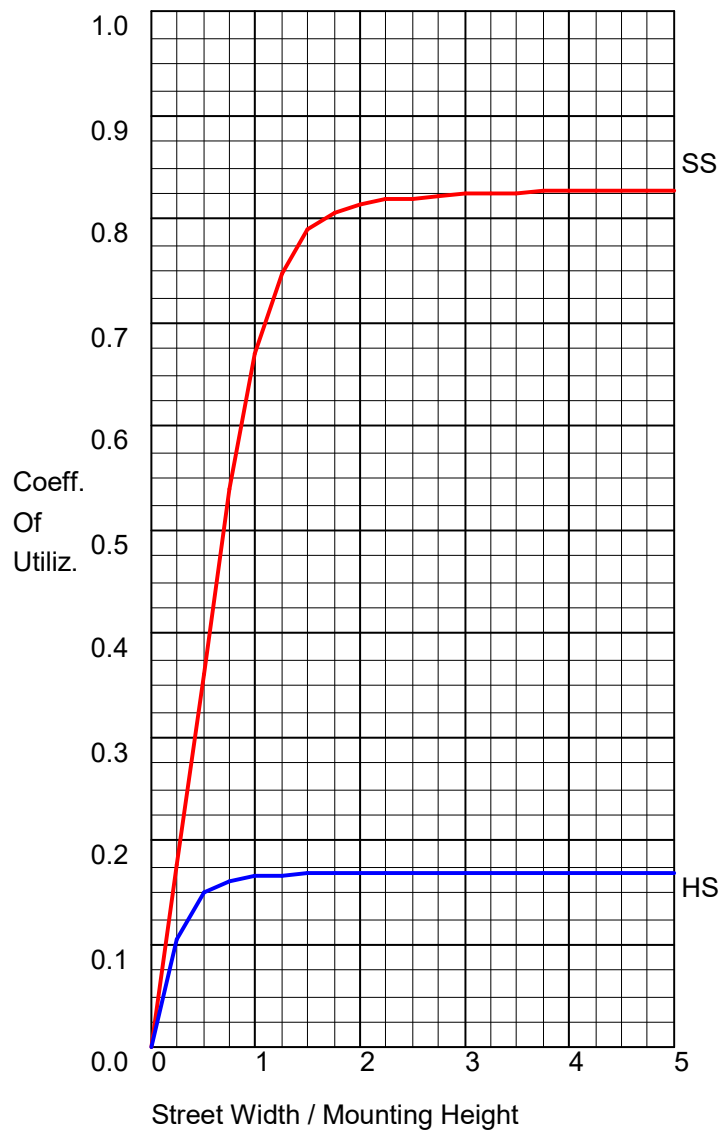
27.5	99	98
30.0	89	89
32.5	84	84
35.0	78	78
37.5	70	70
40.0	59	59
42.5	48	47
45.0	38	37
47.5	29	29
50.0	22	22
52.5	16	16
55.0	11	11
57.5	6	6
60.0	2	2
62.5	1	1
65.0	1	1
67.5	1	1
70.0	1	1
72.5	1	0
75.0	0	0
77.5	1	0
80.0	1	1
82.5	1	1
85.0	1	1
87.5	1	1
90.0	1	1
92.5	1	1
95.0	1	0
97.5	0	0
100.0	0	0
102.5	0	0
105.0	0	0
107.5	0	0
110.0	1	0
112.5	1	1
115.0	1	1
117.5	1	1
120.0	1	1
122.5	1	1
125.0	1	1
127.5	2	2
130.0	2	2
132.5	2	2
135.0	2	2
137.5	1	1
140.0	1	1
142.5	1	1
145.0	1	1
147.5	1	1
150.0	1	1
152.5	1	1
155.0	1	1
157.5	1	1
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	0	0

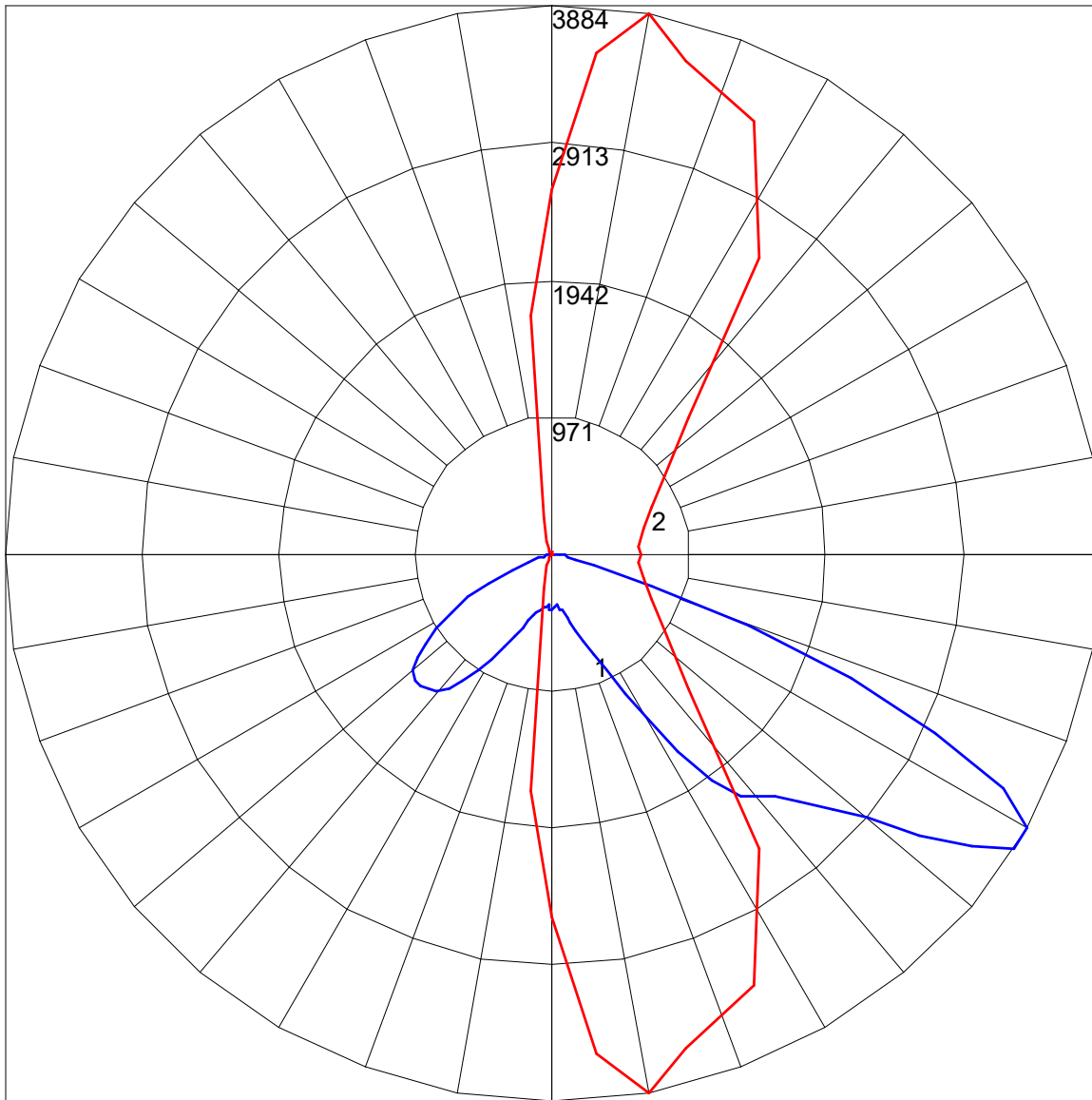
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

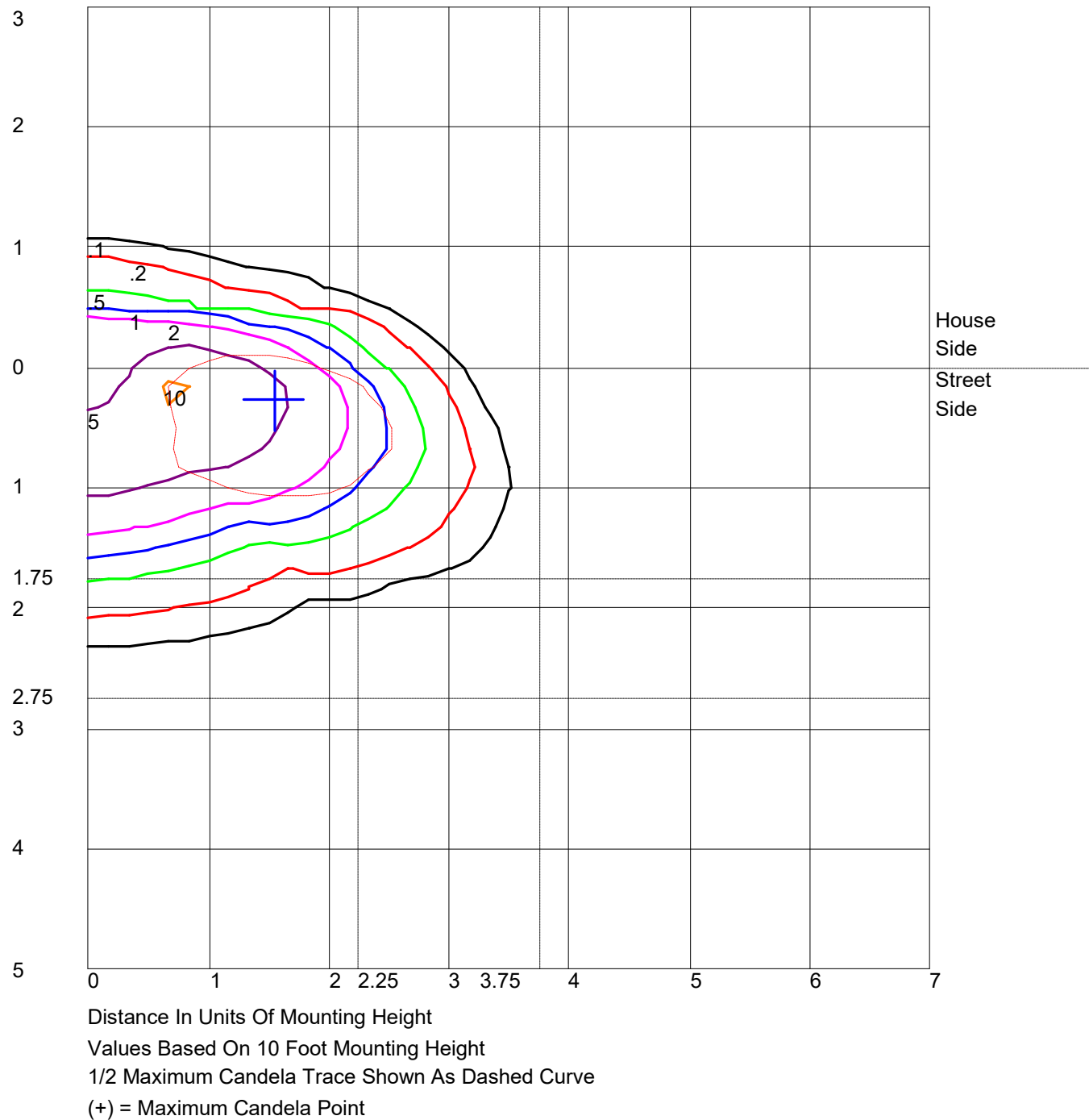
	Lumens	Percent Of Luminaire
Downward Street Side	3150.8	82.9
Downward House Side	643.0	16.9
Downward Total	3793.8	99.9
Upward Street Side	1.5	0.0
Upward House Side	3.3	0.1
Upward Total	4.8	0.1
Total Flux	3798.6	100.0

POLAR GRAPH

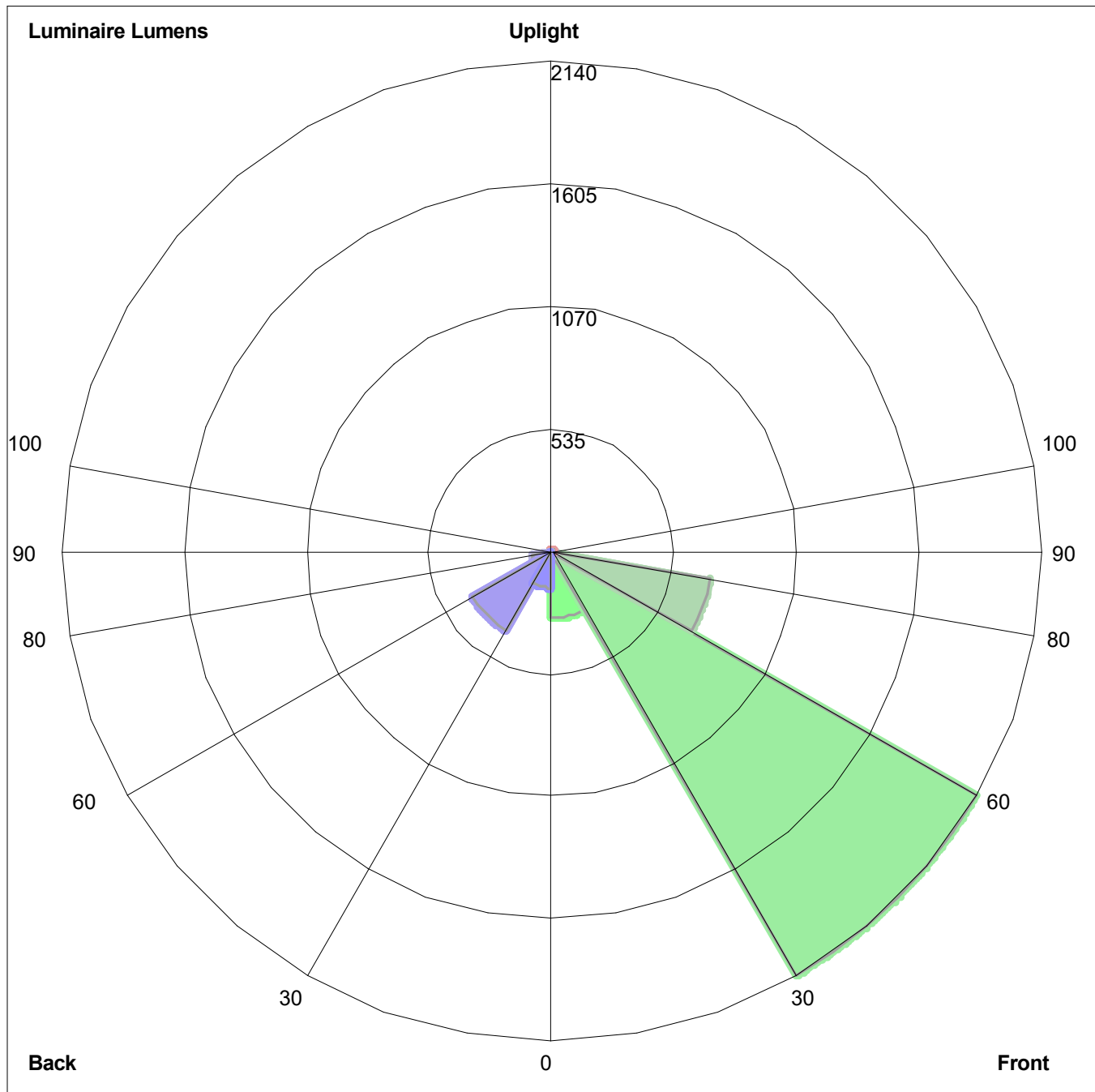


Maximum Candela = 3884 Located At Horizontal Angle = 80, Vertical Angle = 57.5
1 - Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (57.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=293.2, Medium= 2140.0, High=702.7, Very High=14.9
Back: Low=159.0, Medium=398.7, High=82.6, Very High=2.7
Uplight: Low=1.2, High=3.7

BUG Rating : B1-U1-G1