



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11761

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-FT-LED-18L-50-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	14464
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	149
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	10192
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	10192
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	41 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1282 (8.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	809.0	N.A.	5.6
FM - Front-Medium (30-60)	6580.8	N.A.	45.5
FH - Front-High (60-80)	4774.5	N.A.	33.0
FVH - Front-Very High (80-90)	173.4	N.A.	1.2
BL - Back-Low (0-30)	550.4	N.A.	3.8
BM - Back-Medium (30-60)	1296.6	N.A.	9.0
BH - Back-High (60-80)	226.6	N.A.	1.6
BVH - Back-Very High (80-90)	11.4	N.A.	0.1
UL - Uplight-Low (90-100)	10.3	N.A.	0.1
UH - Uplight-High (100-180)	30.9	N.A.	0.2
Total	14463.9	N.A.	100.0
BUG Rating	B2-U2-G2		

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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>40</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>
0.0	1434	1434	1434	1434	1434	1434	1434	1434	1434	1434
2.5	1404	1417	1424	1417	1426	1424	1442	1442	1434	1427
5.0	1312	1311	1346	1374	1380	1358	1370	1334	1325	1309
7.5	1246	1271	1305	1277	1229	1249	1237	1310	1381	1382
10.0	1236	1251	1247	1220	1233	1258	1295	1330	1350	1384
12.5	1346	1315	1305	1257	1283	1299	1314	1347	1430	1456
15.0	1419	1390	1403	1411	1420	1397	1389	1436	1501	1545
17.5	1515	1489	1482	1515	1557	1541	1571	1550	1585	1667
20.0	1679	1679	1694	1696	1688	1702	1734	1738	1715	1813
22.5	1849	1881	1927	1996	1945	1926	1948	1956	1900	2013
25.0	2141	2130	2163	2232	2345	2329	2259	2277	2192	2193
27.5	2617	2556	2597	2581	2645	2707	2692	2628	2524	2431
30.0	2966	3016	3020	3065	3034	3087	3102	3084	2853	2690
32.5	3734	3649	3535	3518	3557	3576	3556	3549	3239	2998
35.0	4139	4182	4069	4105	4041	4106	4032	4021	3677	3284
37.5	4790	4768	4592	4620	4653	4656	4533	4513	4128	3684
40.0	5200	5185	5226	5182	5197	5177	5146	4970	4636	4013
42.5	5511	5524	5551	5620	5723	5655	5622	5520	5118	4308
45.0	5805	5877	5891	5989	6239	6167	6203	5968	5568	4622
47.5	6165	6249	6298	6417	6690	6665	6738	6453	6002	4992
50.0	6557	6628	6708	6912	7189	7243	7320	7045	6548	5352
52.5	6837	6913	7055	7319	7747	7991	7901	7657	6986	5586
55.0	7082	7145	7346	7714	8372	8573	8531	8230	7308	5757
57.5	7342	7408	7656	8126	8914	9082	9062	8659	7503	5759
60.0	7534	7601	7934	8558	9360	9605	9577	8929	7488	5558
62.5	7582	7645	8151	8990	9762	10006	9902	8923	7259	5156
65.0	6964	7091	7808	8992	9976	10192	10070	8627	6682	4478
67.5	5871	5949	6811	8217	9543	9822	9558	7978	5808	3641
70.0	3225	3510	4663	6656	8206	8649	8393	6833	4641	2567
72.5	1403	1523	2143	3694	5858	6531	6693	5181	3224	1608
75.0	1057	1123	1443	2019	2954	3384	3809	3380	1985	1066
77.5	848	903	1201	1588	1842	1879	1922	1895	1267	757
80.0	679	737	1006	1245	1282	1216	1138	932	802	506
82.5	508	551	723	814	671	619	519	392	393	333
85.0	281	294	369	367	264	251	209	175	184	188
87.5	93	105	126	119	85	77	62	57	56	71
90.0	33	35	41	35	25	21	16	9	7	9
92.5	15	15	12	8	7	7	8	7	7	7
95.0	2	2	3	4	7	7	7	7	7	7
97.5	2	2	3	4	5	6	7	7	7	7
100.0	2	2	3	4	5	6	6	6	6	7
102.5	2	2	3	4	5	5	6	6	6	6
105.0	3	2	3	4	5	5	6	5	5	6
107.5	3	3	3	4	5	5	6	6	6	6
110.0	3	3	4	4	5	6	6	6	6	6
112.5	4	4	4	4	6	6	6	6	6	7
115.0	4	4	4	5	6	6	7	6	6	7
117.5	5	5	5	5	6	7	7	7	7	7
120.0	6	6	6	6	7	7	7	7	7	7
122.5	7	7	7	6	7	7	7	7	7	7
125.0	7	7	7	7	7	7	7	7	7	8
127.5	7	7	7	7	7	7	8	7	7	8
130.0	8	7	7	7	7	8	8	7	7	9

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

132.5	8	8	8	7	8	8	8	8	8	9
135.0	7	7	7	7	7	7	7	7	7	8
137.5	4	4	4	4	6	6	6	6	6	7
140.0	1	1	2	3	4	4	4	4	5	5
142.5	1	1	2	3	4	4	4	4	4	5
145.0	1	1	1	3	4	4	4	4	4	4
147.5	1	1	1	3	4	4	4	4	4	4
150.0	0	1	1	3	4	4	4	4	4	4
152.5	1	1	2	3	4	4	4	4	4	4
155.0	1	1	2	3	4	4	4	4	4	4
157.5	1	1	2	3	4	4	4	4	4	4
160.0	1	1	2	3	4	4	4	4	4	4
162.5	1	1	2	3	4	4	4	4	4	4
165.0	1	1	2	3	4	4	4	4	4	4
167.5	1	1	2	3	4	4	4	4	4	4
170.0	1	1	2	3	4	4	4	4	4	4
172.5	1	1	2	3	3	4	4	4	4	4
175.0	1	1	2	3	3	4	4	4	4	4
177.5	1	1	1	2	3	3	4	4	4	4
180.0	2	2	2	2	2	2	2	2	2	2

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	1434	1434	1434	1434	1434	1434	1434	1434	1434	1434
2.5	1439	1442	1430	1429	1429	1435	1444	1448	1425	1400
5.0	1336	1341	1332	1354	1367	1382	1398	1403	1392	1349
7.5	1370	1396	1395	1436	1391	1322	1267	1295	1296	1338
10.0	1398	1378	1391	1405	1349	1336	1305	1296	1240	1296
12.5	1445	1467	1498	1485	1406	1317	1315	1358	1315	1321
15.0	1589	1573	1578	1509	1409	1434	1412	1325	1226	1125
17.5	1660	1674	1658	1622	1487	1485	1403	1187	987	869
20.0	1858	1823	1821	1647	1547	1508	1228	987	835	787
22.5	2024	2001	1996	1818	1641	1430	1064	871	802	781
25.0	2237	2205	2165	1939	1724	1311	949	842	812	814
27.5	2428	2385	2318	2120	1775	1181	928	852	874	902
30.0	2591	2589	2463	2201	1706	1159	947	891	953	997
32.5	2827	2711	2564	2232	1641	1160	980	938	1034	1154
35.0	3012	2942	2699	2250	1538	1179	1006	974	1130	1288
37.5	3287	3147	2886	2202	1473	1185	1008	1009	1192	1351
40.0	3465	3231	2939	2146	1431	1176	995	1002	1201	1228
42.5	3623	3316	2964	2069	1369	1151	953	932	1056	927
45.0	3828	3411	3018	1975	1302	1097	874	780	770	656
47.5	3996	3504	3063	1884	1224	1001	745	605	530	459
50.0	4133	3533	3047	1810	1118	863	605	458	371	336
52.5	4227	3553	2998	1750	975	670	449	332	268	252
55.0	4263	3530	2912	1665	787	471	306	231	194	189
57.5	4164	3423	2781	1519	589	315	214	164	140	140
60.0	3891	3199	2562	1284	408	235	164	122	101	100
62.5	3492	2817	2214	1030	294	191	130	91	69	69
65.0	2972	2292	1733	760	235	155	104	68	51	49
67.5	2221	1698	1129	471	189	126	81	55	38	35
70.0	1456	1109	664	273	143	97	63	45	29	26
72.5	850	634	406	177	97	68	49	36	24	16
75.0	606	433	276	125	70	49	40	26	13	7
77.5	427	299	189	93	55	41	31	16	6	4

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CANDELA TABULATION - (Cont.)

80.0	261	189	133	68	43	35	24	12	4	3
82.5	175	131	93	48	35	29	21	9	3	2
85.0	117	80	54	31	28	25	18	9	2	2
87.5	52	33	24	20	21	19	14	8	2	2
90.0	10	7	13	18	21	18	14	8	2	2
92.5	8	7	13	19	21	20	16	9	4	3
95.0	8	6	13	18	21	19	15	9	4	4
97.5	7	5	10	16	17	16	13	9	5	4
100.0	7	6	8	12	14	14	12	9	6	4
102.5	7	6	7	9	10	12	9	8	6	4
105.0	6	6	7	8	9	9	9	8	6	5
107.5	6	6	7	8	9	9	9	8	7	5
110.0	6	7	7	8	9	9	8	7	6	5
112.5	7	7	7	8	9	9	8	8	7	6
115.0	7	7	8	8	9	9	9	8	7	6
117.5	7	7	8	9	9	9	9	9	8	7
120.0	7	8	8	9	9	10	10	9	9	7
122.5	8	9	9	9	10	12	10	10	9	8
125.0	8	9	9	9	10	10	10	10	9	8
127.5	9	9	9	9	10	10	10	10	9	9
130.0	9	9	9	9	10	10	10	10	9	9
132.5	9	9	9	9	9	10	10	9	9	8
135.0	9	9	9	9	9	9	9	8	7	7
137.5	7	7	7	7	8	7	7	6	5	4
140.0	5	6	6	6	6	6	5	4	4	2
142.5	5	5	5	6	6	5	4	4	3	1
145.0	5	5	5	5	5	5	4	4	2	1
147.5	5	5	5	5	5	5	4	4	2	1
150.0	4	5	5	5	5	4	4	3	2	1
152.5	4	5	5	5	5	4	4	3	2	1
155.0	4	4	4	4	4	4	4	3	1	1
157.5	4	4	4	4	4	4	4	2	1	1
160.0	4	4	4	4	4	4	3	2	1	0
162.5	4	4	4	4	4	4	3	1	1	0
165.0	4	4	4	4	4	4	2	1	1	0
167.5	4	4	4	4	4	3	2	1	1	0
170.0	4	4	4	4	4	3	2	1	1	0
172.5	4	4	4	4	3	3	2	1	1	0
175.0	4	4	4	4	3	3	2	1	0	0
177.5	4	4	4	3	3	2	1	1	0	0
180.0	2	2	2	2	2	2	2	2	2	2

Vert. Horizontal Angles
Angles

	<u>175</u>	<u>180</u>
0.0	1434	1434
2.5	1404	1415
5.0	1336	1350
7.5	1326	1314
10.0	1335	1305
12.5	1318	1299
15.0	1127	1125
17.5	858	854
20.0	799	800
22.5	799	813
25.0	861	888

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CANDELA TABULATION - (Cont.)

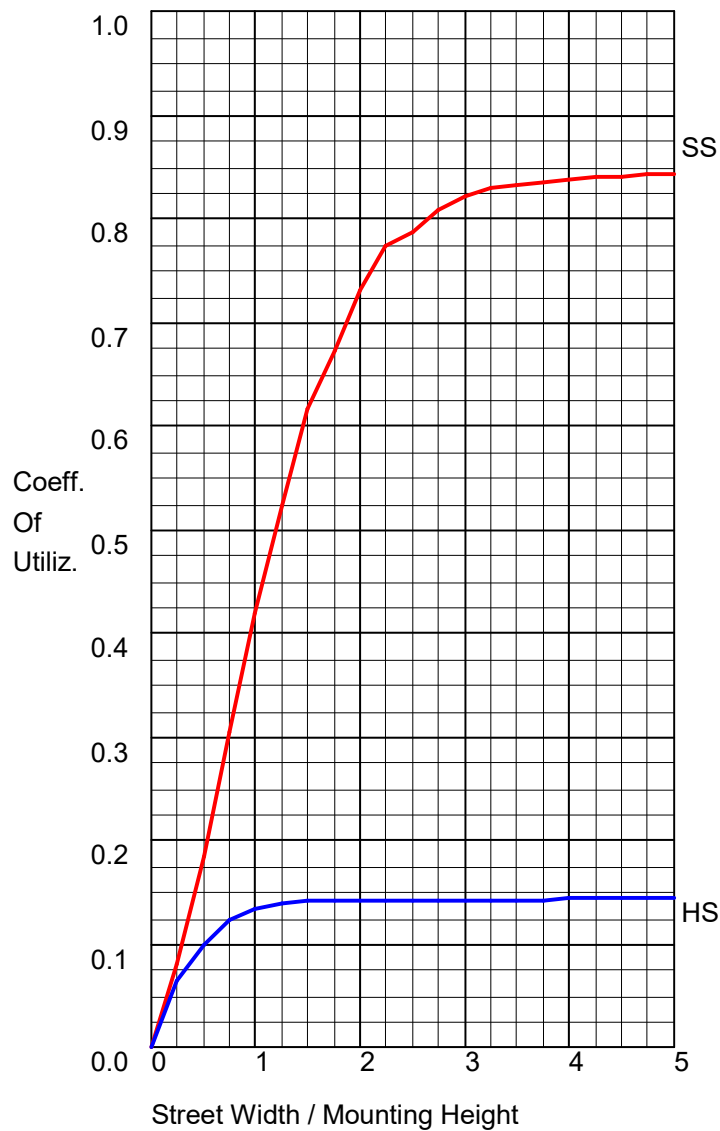
27.5	953	999
30.0	1079	1089
32.5	1263	1271
35.0	1345	1359
37.5	1326	1311
40.0	1093	1072
42.5	812	799
45.0	609	605
47.5	461	464
50.0	356	350
52.5	273	271
55.0	208	209
57.5	160	162
60.0	121	124
62.5	91	93
65.0	68	70
67.5	48	51
70.0	35	38
72.5	19	20
75.0	7	8
77.5	1	2
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	1	0
95.0	1	1
97.5	2	2
100.0	3	3
102.5	4	3
105.0	4	3
107.5	4	4
110.0	4	4
112.5	5	4
115.0	5	5
117.5	6	6
120.0	7	6
122.5	7	7
125.0	7	7
127.5	7	7
130.0	7	7
132.5	7	7
135.0	6	6
137.5	4	3
140.0	1	1
142.5	1	0
145.0	0	0
147.5	0	0
150.0	0	0
152.5	0	0
155.0	0	0
157.5	0	0
160.0	0	0
162.5	0	0
165.0	0	0

IES ROAD REPORT
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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	2	2

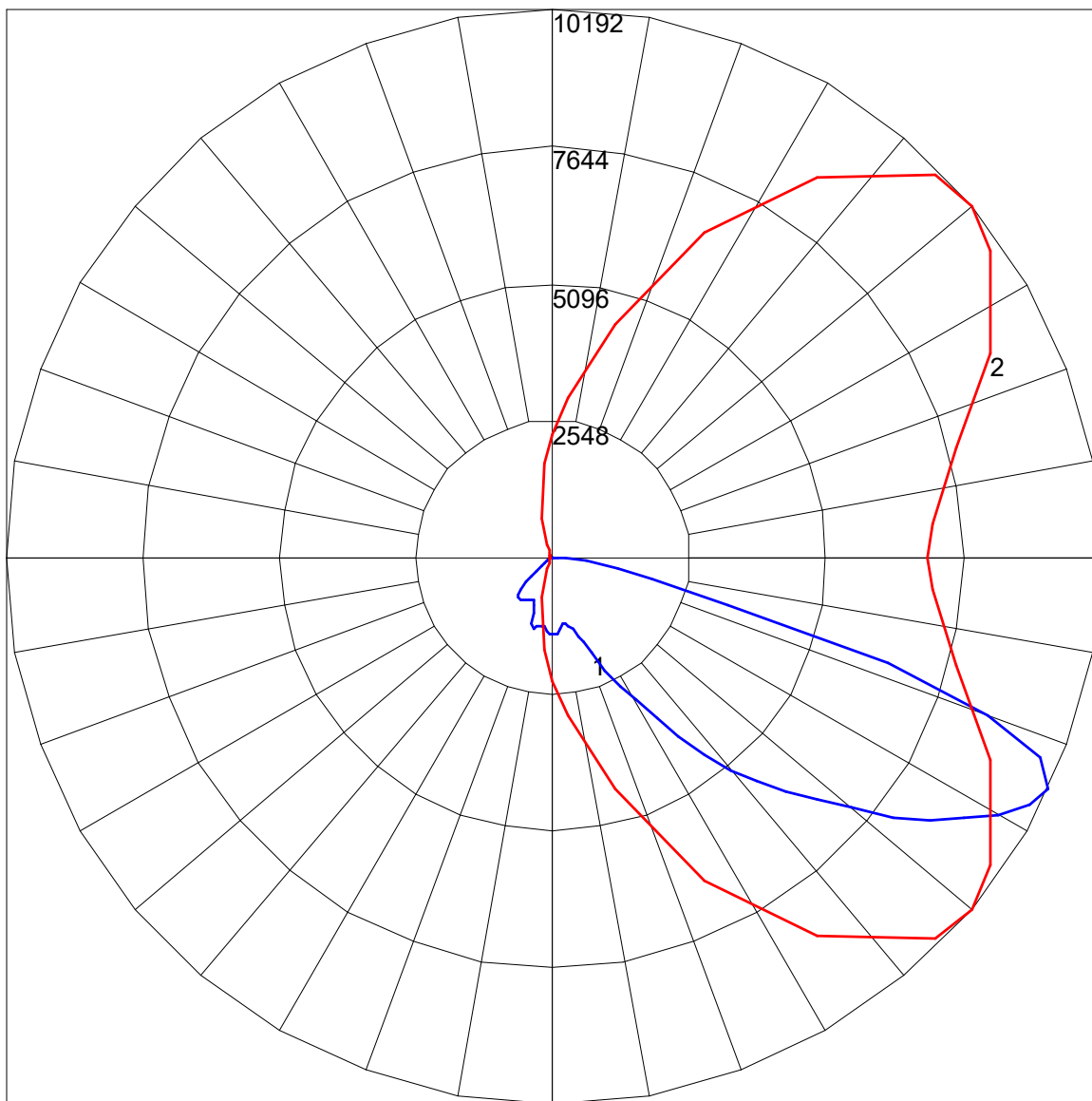
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

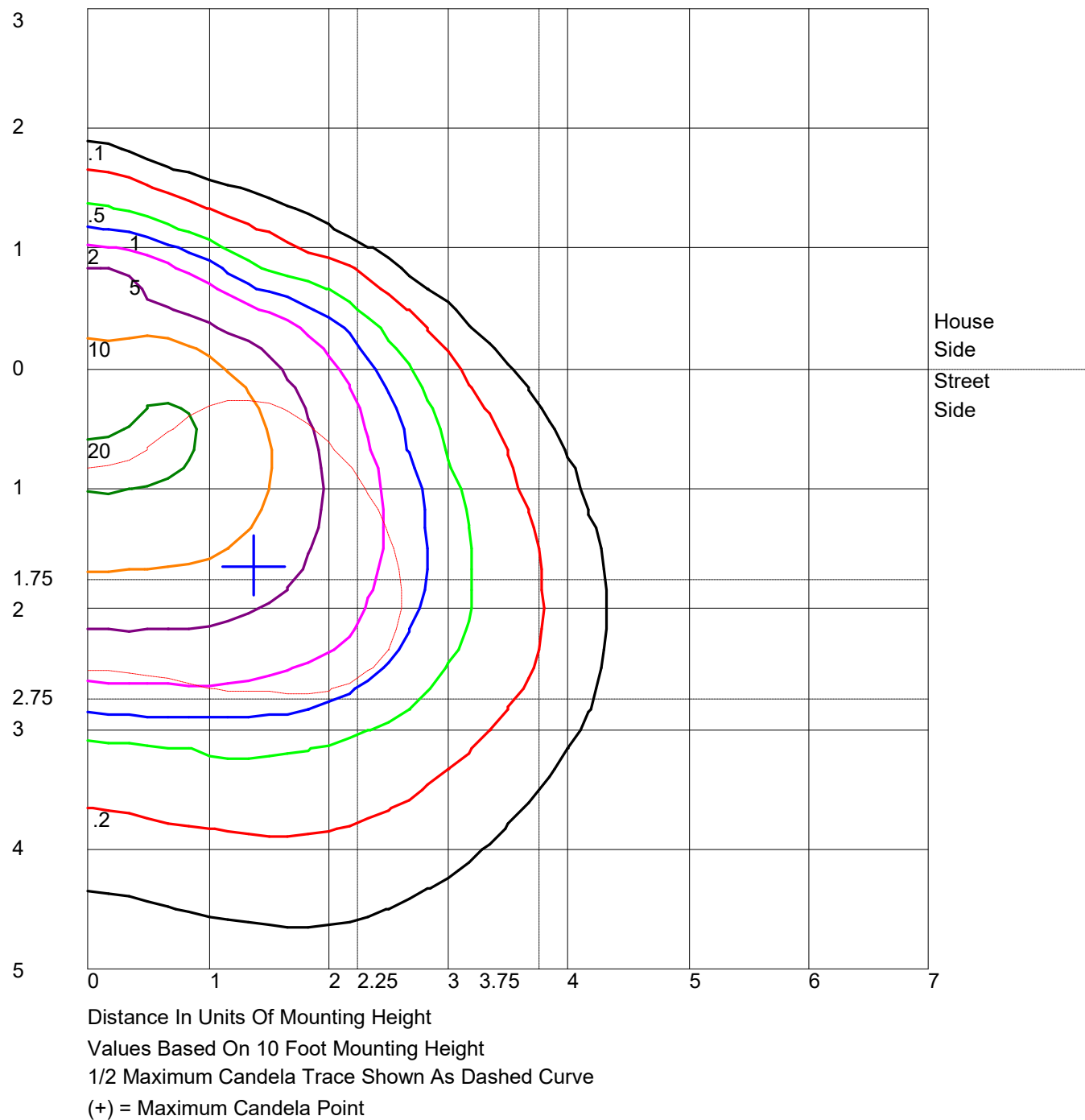
	Lumens	Percent Of Luminaire
Downward Street Side	12337.7	85.3
Downward House Side	2084.9	14.4
Downward Total	14422.6	99.7
Upward Street Side	18.3	0.1
Upward House Side	22.9	0.2
Upward Total	41.2	0.3
Total Flux	14463.8	100.0

POLAR GRAPH

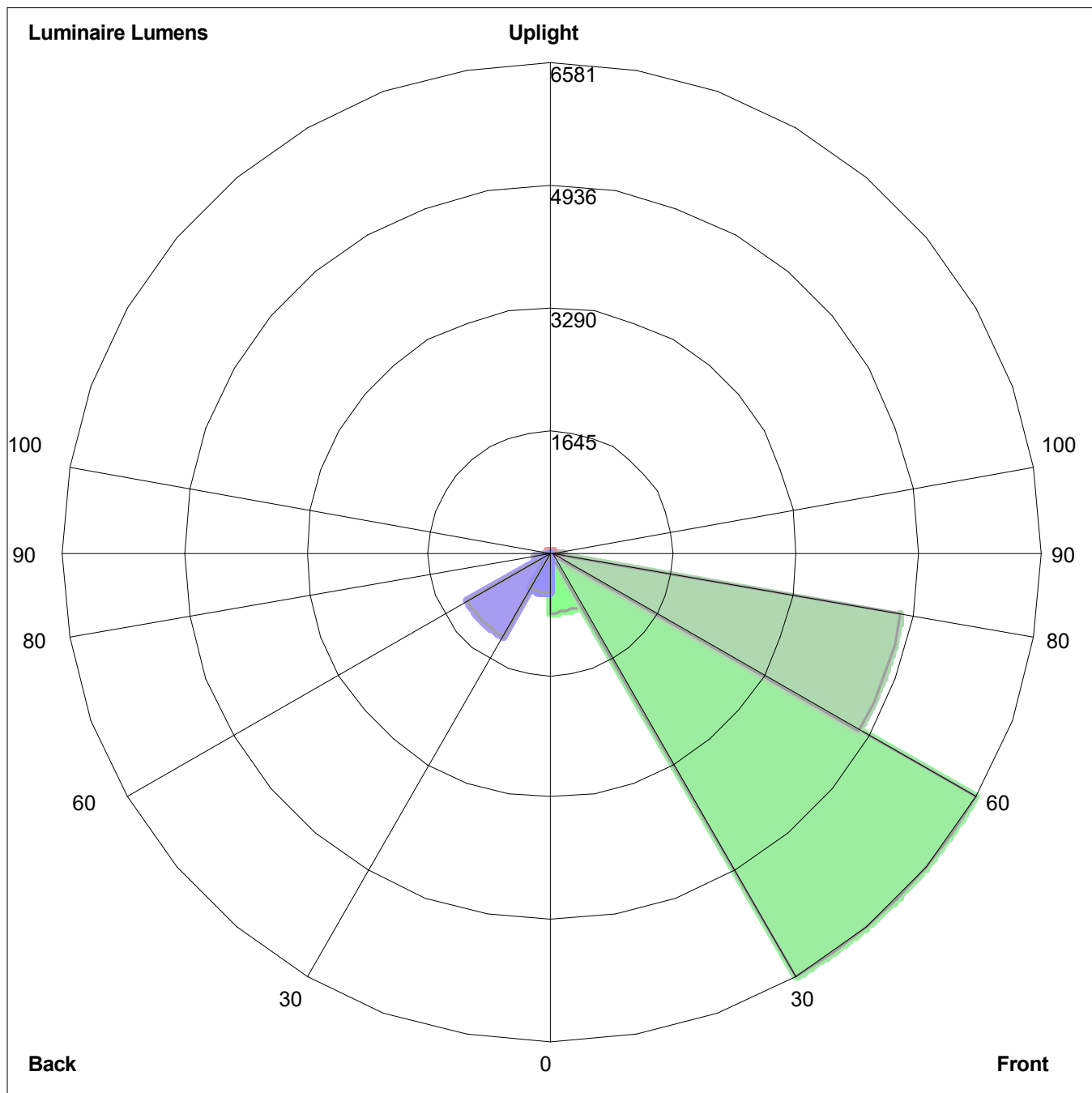


Maximum Candela = 10192 Located At Horizontal Angle = 40, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=809.0, Medium=6580.8, High=4774.5, Very High=173.4
Back: Low=550.4, Medium=1296.6, High=226.6, Very High=11.4
Uplight: Low=10.3, High=30.9

BUG Rating : B2-U2-G2