



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-18L-50.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11676
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/20
[TEST DATE] 04/02/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] LXM4-PT-3-LED-18L-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 III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	19685
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	132
Total Luminaire Watts	148.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18988
Maximum Candela Angle	57.5H 65V
Maximum Candela (<90 Degrees Vertical)	18988
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 65V
Maximum Candela At 90 Degrees Vertical	86 (0.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1198 (6.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	590.8	N.A.	3.0
FM - Front-Medium (30-60)	8500.4	N.A.	43.2
FH - Front-High (60-80)	6338.9	N.A.	32.2
FVH - Front-Very High (80-90)	153.2	N.A.	0.8
BL - Back-Low (0-30)	564.1	N.A.	2.9
BM - Back-Medium (30-60)	2304.0	N.A.	11.7
BH - Back-High (60-80)	1076.4	N.A.	5.5
BVH - Back-Very High (80-90)	103.4	N.A.	0.5
UL - Uplight-Low (90-100)	17.2	N.A.	0.1
UH - Uplight-High (100-180)	36.2	N.A.	0.2
Total	19684.7	N.A.	100.0
BUG Rating	B3-U2-G3		

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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>55.0</u>	<u>57.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	969	969	969	969	969	969	969	969	969	969
2.5	937	943	936	933	938	943	958	958	957	957
5.0	851	852	870	886	905	884	877	875	876	887
7.5	813	827	849	834	831	822	850	867	907	897
10.0	822	814	817	807	821	869	887	891	900	911
12.5	862	860	856	828	866	888	911	913	932	952
15.0	917	910	911	925	948	937	971	981	993	1009
17.5	988	983	968	994	1012	1045	1031	1043	1057	1088
20.0	1142	1135	1110	1112	1133	1156	1173	1171	1164	1178
22.5	1276	1311	1324	1353	1339	1357	1402	1388	1327	1334
25.0	1564	1551	1602	1654	1668	1673	1734	1702	1653	1567
27.5	2061	2145	2129	2083	2096	2192	2164	2114	2124	1946
30.0	2717	2721	2676	2716	2658	2772	2753	2685	2633	2337
32.5	3548	3508	3324	3264	3355	3440	3431	3391	3245	2863
35.0	4138	4123	4037	4023	4039	4206	4120	4077	3855	3362
37.5	5020	4946	4781	4734	4771	4954	4824	4809	4381	3775
40.0	5732	5711	5641	5559	5557	5629	5429	5381	4856	4157
42.5	6559	6539	6468	6387	6347	6284	6055	5913	5304	4424
45.0	7632	7597	7552	7453	7238	7097	6585	6454	5695	4691
47.5	8981	8935	8945	8917	8389	7906	7165	7001	6102	5008
50.0	10620	10601	10660	10578	9884	8867	7866	7653	6616	5423
52.5	12280	12343	12555	12466	11664	10057	8802	8502	7359	6046
55.0	13063	13082	13518	13982	13622	11604	10024	9747	8546	6917
57.5	12789	12828	13514	14417	15060	13510	11690	11503	10039	8346
60.0	10319	10451	11982	13720	15459	15362	14050	13823	12143	9941
62.5	6271	6354	7745	10778	14658	16537	16879	16685	14368	11272
65.0	3099	3151	4069	6278	11530	16184	18899	18988	15530	11567
67.5	1569	1596	1933	3173	6885	13470	18385	18715	15964	10456
70.0	952	977	1188	1753	3570	8728	15142	15926	13830	7596
72.5	565	575	761	1199	2170	4574	9988	10911	8826	4142
75.0	390	405	528	896	1516	2457	4985	5565	4500	1676
77.5	293	305	409	761	1186	1494	2435	2568	1948	719
80.0	209	221	319	641	970	951	1094	1198	1001	383
82.5	144	155	247	453	715	614	528	573	509	244
85.0	109	117	184	345	410	350	256	274	272	158
87.5	103	106	137	246	245	129	101	103	107	82
90.0	57	57	73	86	77	33	29	28	25	20
92.5	17	17	19	19	10	10	13	13	12	10
95.0	7	7	7	6	6	8	10	10	10	9
97.5	6	6	6	6	6	7	8	8	8	8
100.0	5	5	5	6	6	7	7	7	7	7
102.5	5	5	5	6	6	6	6	6	6	7
105.0	4	5	5	6	6	6	6	6	6	6
107.5	4	5	5	6	6	6	6	6	6	7
110.0	5	5	5	6	6	6	6	6	6	7
112.5	5	5	5	6	6	7	6	6	6	7
115.0	5	5	6	6	6	7	6	6	6	7
117.5	6	6	6	6	7	7	6	6	6	7
120.0	7	7	6	7	7	7	6	6	6	7
122.5	7	7	7	7	7	7	7	7	7	8
125.0	7	7	7	7	7	8	7	7	7	8
127.5	7	8	7	8	8	8	7	7	7	8
130.0	8	8	8	8	8	8	7	7	7	8

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CANDELA TABULATION - (Cont.)

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

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	969	969	969	969	969	969	969	969	969	969
2.5	966	974	971	973	979	986	1002	1006	994	980
5.0	896	896	898	934	958	971	1000	1012	1008	990
7.5	920	924	943	993	973	958	946	975	961	996
10.0	924	930	939	986	959	1000	997	1003	1003	1036
12.5	970	981	1019	1016	1012	1017	1046	1129	1130	1186
15.0	1022	1038	1041	1037	1025	1103	1160	1240	1265	1252
17.5	1086	1077	1089	1100	1085	1211	1307	1335	1336	1337
20.0	1179	1165	1176	1115	1154	1297	1346	1417	1440	1437
22.5	1317	1279	1287	1231	1294	1396	1464	1476	1469	1499
25.0	1531	1470	1443	1305	1465	1515	1497	1520	1538	1571
27.5	1792	1674	1626	1459	1595	1600	1567	1590	1634	1664
30.0	2115	1949	1827	1589	1673	1738	1663	1670	1695	1734
32.5	2408	2206	2008	1714	1766	1862	1801	1769	1833	1944
35.0	2771	2466	2181	1819	1805	1943	1913	1897	2018	2159
37.5	3053	2684	2319	1871	1824	1985	1962	2040	2206	2399
40.0	3262	2809	2355	1886	1824	2004	1985	2082	2459	2534
42.5	3410	2905	2371	1835	1762	1983	1971	2105	2664	2503
45.0	3616	3007	2397	1779	1691	1908	1934	2048	2880	2366
47.5	3831	3159	2461	1737	1617	1829	1874	1988	2936	2256
50.0	4173	3408	2595	1721	1549	1751	1810	1937	2882	2207
52.5	4668	3750	2789	1732	1481	1683	1740	1865	2699	2170
55.0	5293	4217	3076	1750	1420	1599	1659	1766	2414	2119
57.5	6224	4840	3356	1750	1347	1484	1567	1644	2054	2025
60.0	7318	5387	3322	1652	1254	1343	1444	1482	1685	1969
62.5	8006	5561	2913	1446	1148	1201	1299	1324	1359	1906
65.0	7776	5108	2225	1201	1039	1076	1146	1206	1147	1810
67.5	6268	4153	1566	983	919	945	1012	1098	1003	1633
70.0	3812	2547	1000	793	790	808	884	1002	917	1380
72.5	1724	1109	595	618	644	680	754	895	803	1044
75.0	666	501	393	485	542	579	643	706	577	715
77.5	336	272	300	414	462	499	483	435	350	456

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CANDELA TABULATION - (Cont.)

80.0	203	184	247	356	390	356	294	323	250	332
82.5	143	130	207	306	292	232	212	238	155	241
85.0	90	87	163	235	188	162	151	121	75	153
87.5	44	46	112	146	109	91	60	57	34	70
90.0	16	10	39	59	48	40	28	17	7	9
92.5	9	9	20	31	39	36	25	14	3	3
95.0	8	9	18	29	37	33	23	13	4	3
97.5	7	8	15	24	30	27	20	12	4	3
100.0	7	8	12	20	25	23	18	10	4	3
102.5	7	8	10	17	21	20	16	10	5	3
105.0	7	8	10	15	18	17	15	10	5	3
107.5	7	8	10	13	15	16	14	10	5	4
110.0	7	9	10	12	14	14	13	10	6	4
112.5	7	9	10	12	14	14	13	10	7	4
115.0	8	9	10	12	14	14	13	10	7	5
117.5	8	9	10	12	14	14	13	10	7	5
120.0	8	9	10	12	14	14	13	10	8	6
122.5	9	10	10	13	15	15	14	12	8	6
125.0	9	10	10	13	14	15	14	12	9	7
127.5	9	10	12	12	14	15	14	12	9	7
130.0	9	10	10	12	14	15	14	12	9	7
132.5	9	10	10	12	14	14	13	12	9	7
135.0	9	10	10	12	13	13	12	9	7	6
137.5	7	8	9	9	10	10	9	7	5	3
140.0	6	7	7	8	8	8	7	6	4	2
142.5	6	6	7	7	8	8	7	5	3	1
145.0	5	6	6	7	7	7	6	4	3	1
147.5	5	6	6	6	7	7	6	4	2	1
150.0	5	6	6	6	7	7	5	4	2	0
152.5	5	6	6	6	6	6	5	3	2	0
155.0	5	5	6	6	6	6	5	3	1	0
157.5	4	5	5	6	6	6	4	3	1	0
160.0	4	5	5	5	5	5	4	2	0	0
162.5	4	4	5	5	5	5	3	2	0	0
165.0	4	4	5	5	5	5	3	2	0	0
167.5	4	4	4	5	5	4	3	2	0	0
170.0	4	4	4	5	5	4	3	2	0	0
172.5	4	4	4	4	5	4	3	2	0	0
175.0	4	4	4	4	5	4	3	2	1	0
177.5	4	4	4	4	4	4	3	2	1	0
180.0	3	3	3	3	3	3	3	3	3	3

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	969	969
2.5	978	982
5.0	987	1001
7.5	1002	1017
10.0	1070	1076
12.5	1193	1204
15.0	1298	1325
17.5	1382	1395
20.0	1470	1474
22.5	1491	1538
25.0	1589	1628

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CANDELA TABULATION - (Cont.)

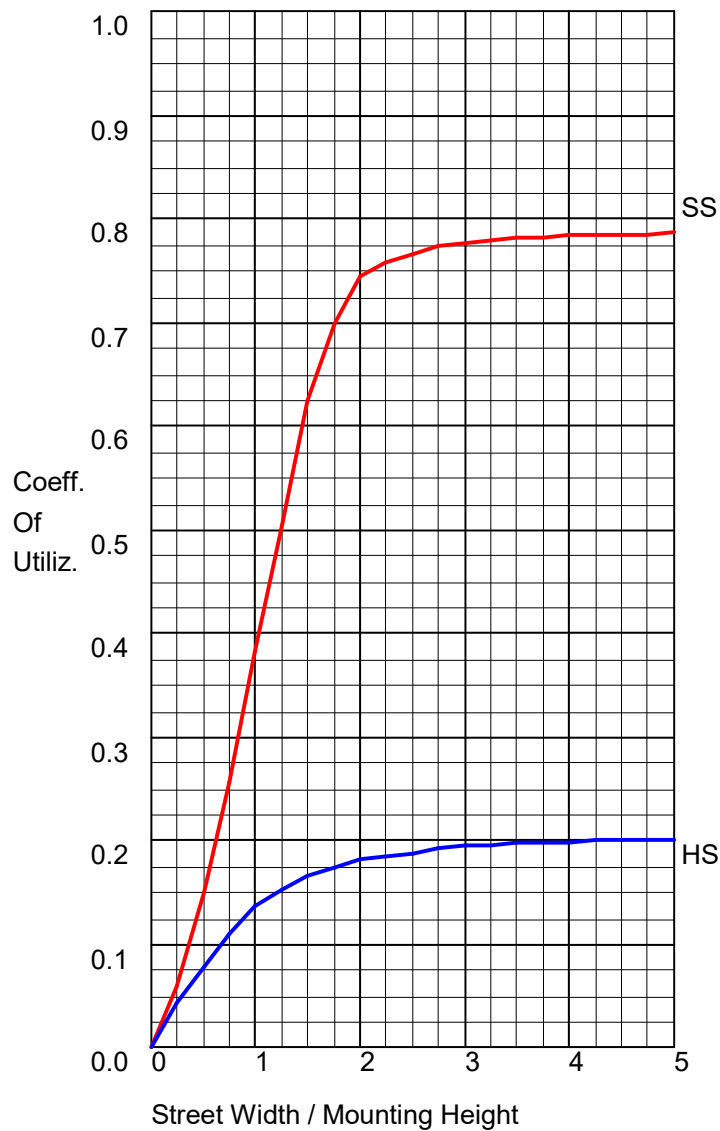
27.5	1663	1691
30.0	1774	1811
32.5	1992	2017
35.0	2228	2242
37.5	2409	2396
40.0	2264	2216
42.5	2005	1946
45.0	1826	1762
47.5	1717	1650
50.0	1627	1565
52.5	1550	1475
55.0	1448	1338
57.5	1362	1226
60.0	1361	1175
62.5	1422	1187
65.0	1531	1270
67.5	1673	1433
70.0	1762	1634
72.5	1589	1667
75.0	1276	1514
77.5	1057	1270
80.0	787	916
82.5	546	618
85.0	381	419
87.5	293	427
90.0	16	27
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	1	0
105.0	1	1
107.5	2	1
110.0	2	2
112.5	2	2
115.0	3	3
117.5	3	3
120.0	4	4
122.5	4	4
125.0	5	5
127.5	5	5
130.0	5	5
132.5	5	5
135.0	4	4
137.5	2	1
140.0	0	0
142.5	0	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

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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	3	3

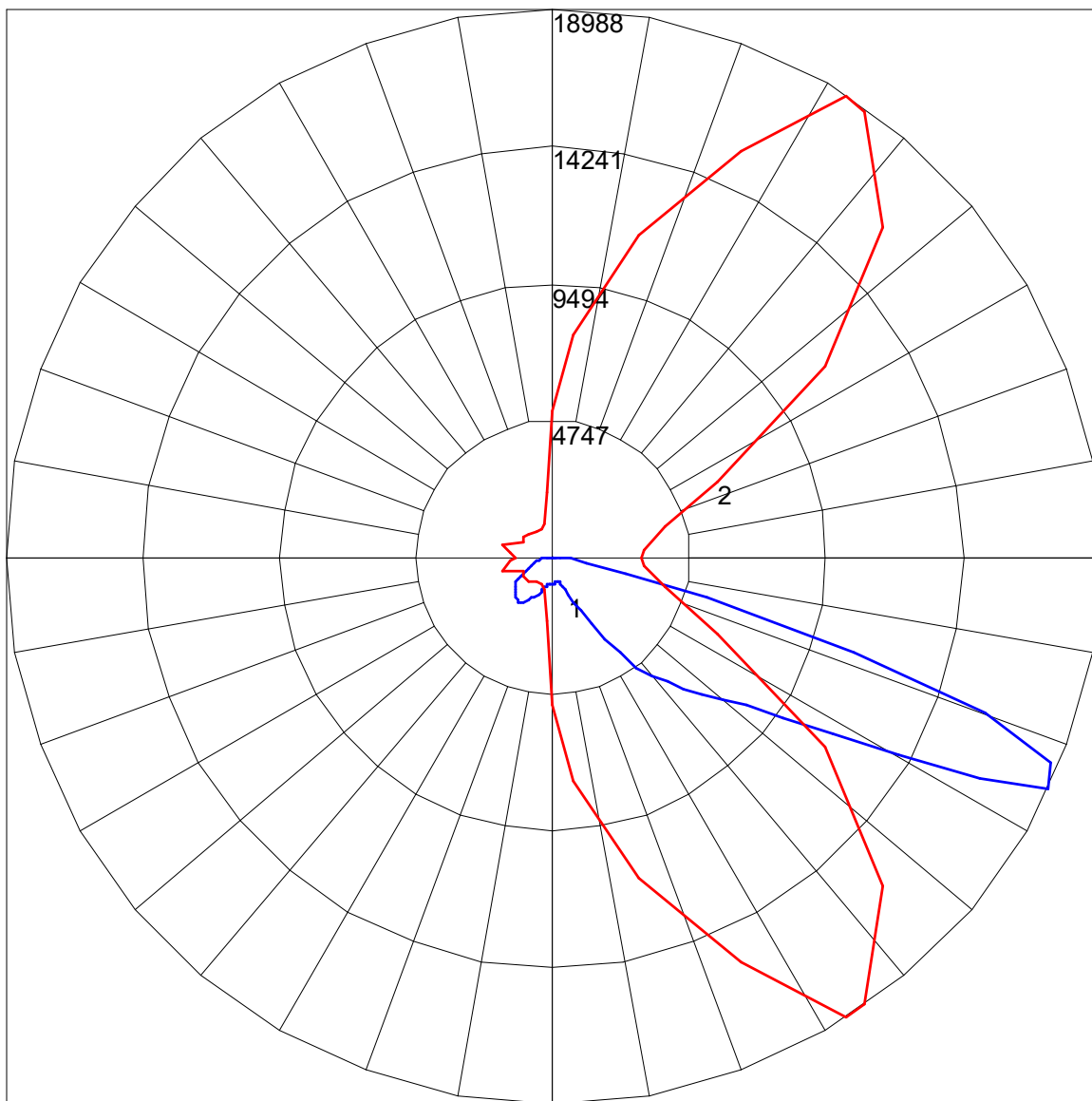
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

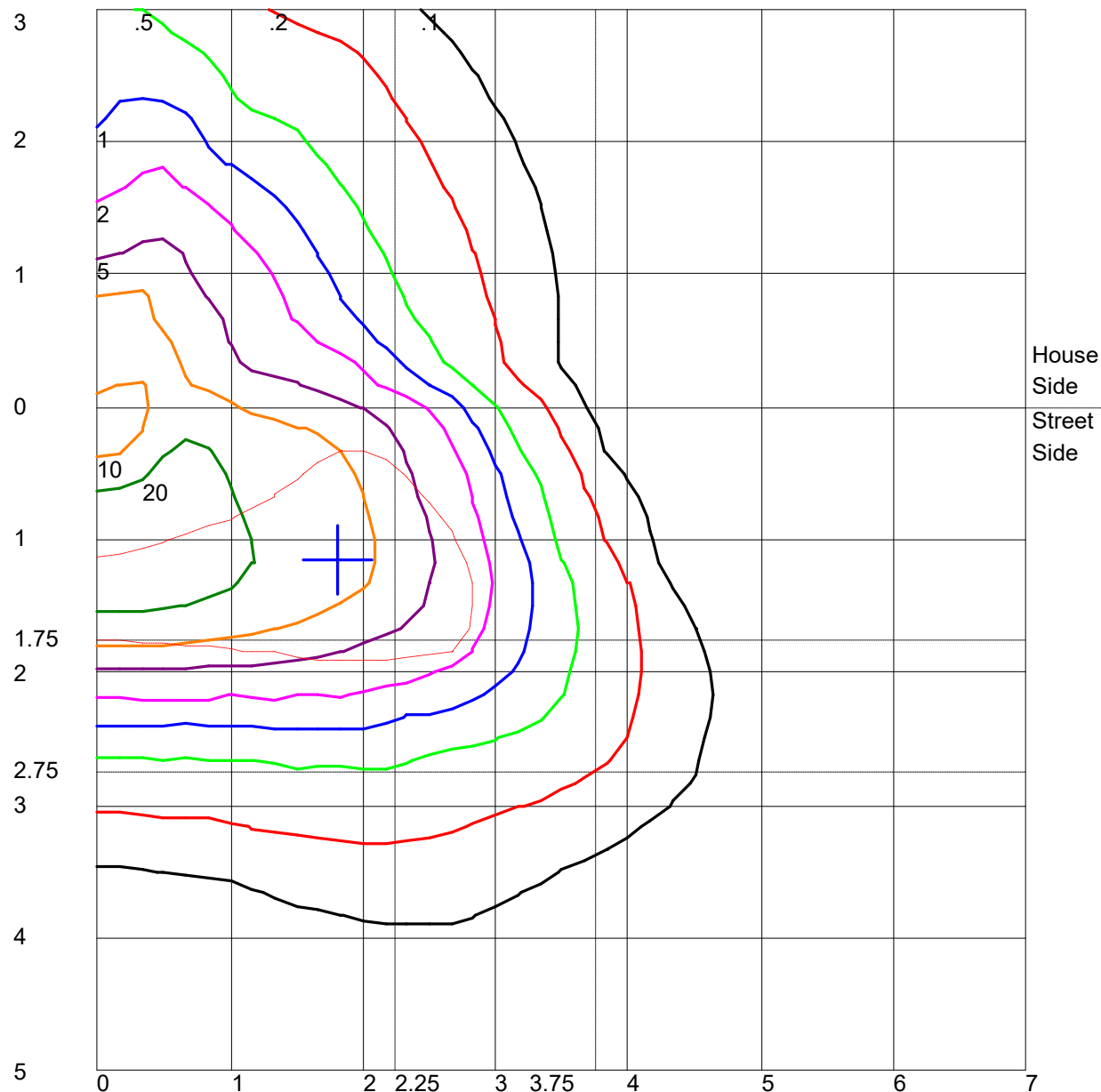
	Lumens	Percent Of Luminaire
Downward Street Side	15583.4	79.2
Downward House Side	4048.0	20.6
Downward Total	19631.4	99.7
Upward Street Side	22.0	0.1
Upward House Side	31.4	0.2
Upward Total	53.4	0.3
Total Flux	19684.8	100.0

POLAR GRAPH



Maximum Candela = 18988 Located At Horizontal Angle = 57.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



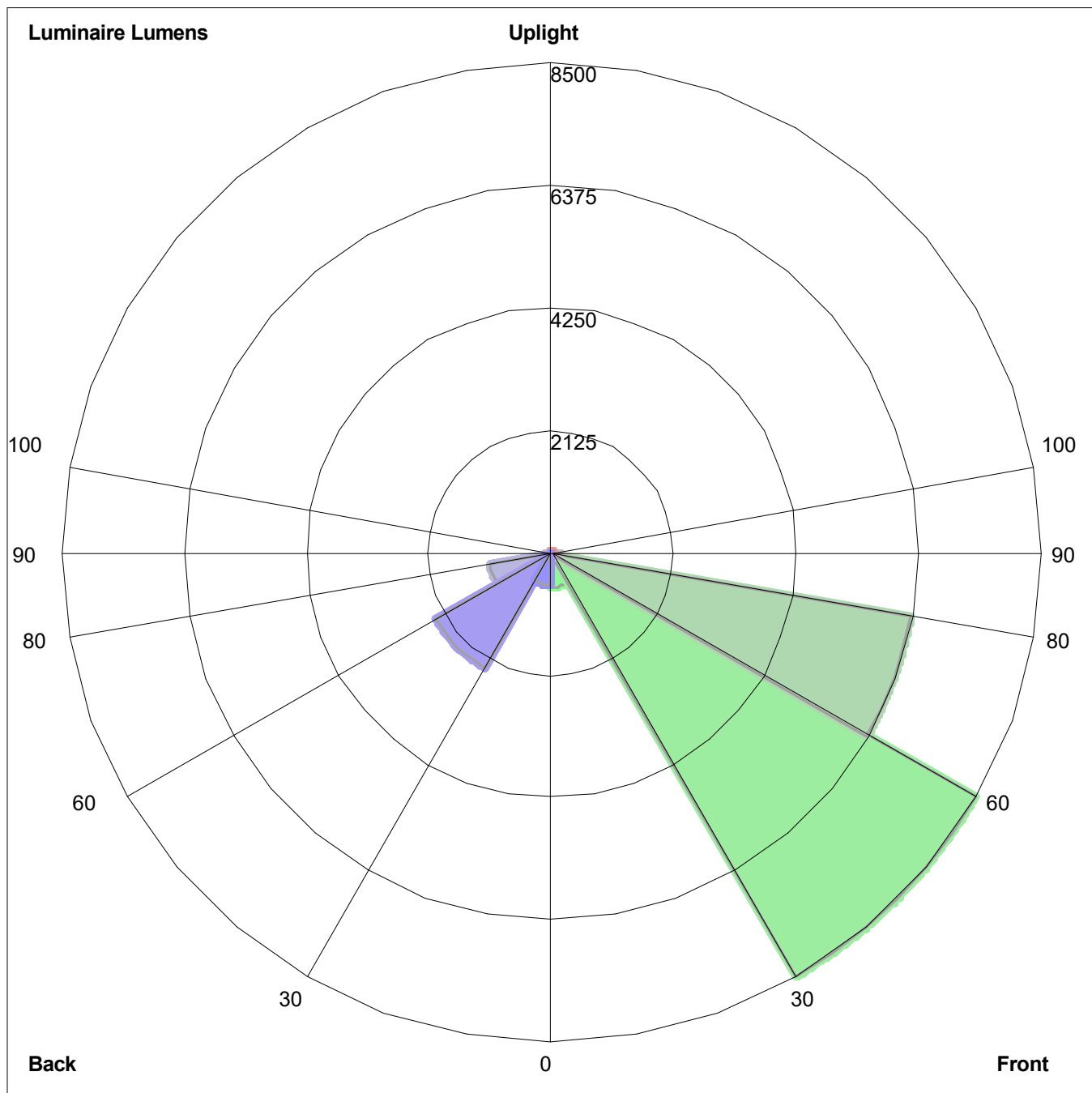
Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height

1/2 Maximum Candela Trace Shown As Dashed Curve

(+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=590.8, Medium=8500.4, High=6338.9, Very High=153.2
Back: Low=564.1, Medium= 2304.0, High=1076.4, Very High=103.4
Uplight: Low=17.2, High=36.2

BUG Rating : B3-U2-G3