



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-18L-40.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
[MANUFACTURER] LSI INDUSTRIES, INC.
[LUMEN CATEGORY] LXM4-PT-3-LED-18L-40
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] 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	18756
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	126
Total Luminaire Watts	148.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	18091
Maximum Candela Angle	57.5H 65V
Maximum Candela (<90 Degrees Vertical)	18091
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 65V
Maximum Candela At 90 Degrees Vertical	82 (0.4% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1141 (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)	562.9	N.A.	3.0
FM - Front-Medium (30-60)	8098.7	N.A.	43.2
FH - Front-High (60-80)	6039.4	N.A.	32.2
FVH - Front-Very High (80-90)	146.0	N.A.	0.8
BL - Back-Low (0-30)	537.5	N.A.	2.9
BM - Back-Medium (30-60)	2195.2	N.A.	11.7
BH - Back-High (60-80)	1025.6	N.A.	5.5
BVH - Back-Very High (80-90)	98.6	N.A.	0.5
UL - Uplight-Low (90-100)	16.5	N.A.	0.1
UH - Uplight-High (100-180)	35.3	N.A.	0.2
Total	18755.7	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	923	923	923	923	923	923	923	923	923	923
2.5	893	898	892	889	894	898	913	913	912	912
5.0	811	812	829	844	862	842	836	834	835	845
7.5	775	788	809	795	792	783	810	826	864	855
10.0	783	776	778	769	782	828	845	849	857	868
12.5	821	819	816	789	825	846	868	870	888	907
15.0	874	867	868	881	903	893	925	935	946	961
17.5	941	937	922	947	964	996	982	994	1007	1037
20.0	1088	1081	1058	1059	1079	1101	1118	1116	1109	1122
22.5	1216	1249	1261	1289	1276	1293	1336	1322	1264	1271
25.0	1490	1478	1526	1576	1589	1594	1652	1622	1575	1493
27.5	1964	2044	2028	1985	1997	2088	2062	2014	2024	1854
30.0	2589	2592	2550	2588	2532	2641	2623	2558	2509	2227
32.5	3380	3342	3167	3110	3196	3277	3269	3231	3092	2728
35.0	3942	3928	3846	3833	3848	4007	3925	3884	3673	3203
37.5	4783	4712	4555	4510	4546	4720	4596	4582	4174	3597
40.0	5461	5441	5374	5296	5294	5363	5172	5127	4627	3961
42.5	6249	6230	6162	6085	6047	5987	5769	5634	5053	4215
45.0	7271	7238	7195	7101	6896	6762	6274	6149	5426	4469
47.5	8557	8513	8522	8496	7993	7532	6826	6670	5814	4771
50.0	10118	10100	10156	10078	9417	8448	7494	7291	6303	5167
52.5	11700	11760	11962	11877	11113	9582	8386	8100	7011	5760
55.0	12446	12464	12879	13321	12978	11056	9550	9286	8142	6590
57.5	12185	12222	12875	13736	14348	12872	11138	10959	9565	7952
60.0	9831	9957	11416	13072	14728	14636	13386	13170	11569	9471
62.5	5975	6054	7379	10269	13965	15756	16081	15897	13689	10739
65.0	2953	3002	3877	5981	10985	15419	18006	18091	14796	11020
67.5	1495	1521	1842	3023	6560	12833	17516	17831	15210	9962
70.0	907	931	1132	1670	3401	8316	14426	15173	13176	7237
72.5	538	548	725	1142	2067	4358	9516	10395	8409	3946
75.0	372	386	503	854	1444	2341	4749	5302	4287	1597
77.5	279	291	390	725	1130	1423	2320	2447	1856	685
80.0	199	211	304	611	924	906	1042	1141	954	365
82.5	137	148	235	432	681	585	503	546	485	232
85.0	104	111	175	329	391	333	244	261	259	151
87.5	98	101	131	234	233	123	96	98	102	78
90.0	54	54	70	82	73	31	28	27	24	19
92.5	16	16	18	18	10	10	12	12	11	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	923	923	923	923	923	923	923	923	923	923
2.5	920	928	925	927	933	939	955	958	947	934
5.0	854	854	856	890	913	925	953	964	960	943
7.5	877	880	898	946	927	913	901	929	916	949
10.0	880	886	895	939	914	953	950	956	956	987
12.5	924	935	971	968	964	969	997	1076	1077	1130
15.0	974	989	992	988	977	1051	1105	1181	1205	1193
17.5	1035	1026	1038	1048	1034	1154	1245	1272	1273	1274
20.0	1123	1110	1120	1062	1099	1236	1282	1350	1372	1369
22.5	1255	1219	1226	1173	1233	1330	1395	1406	1400	1428
25.0	1459	1401	1375	1243	1396	1443	1426	1448	1465	1497
27.5	1707	1595	1549	1390	1520	1524	1493	1515	1557	1585
30.0	2015	1857	1741	1514	1594	1656	1584	1591	1615	1652
32.5	2294	2102	1913	1633	1683	1774	1716	1685	1746	1852
35.0	2640	2349	2078	1733	1720	1851	1823	1807	1923	2057
37.5	2909	2557	2209	1783	1738	1891	1869	1944	2102	2286
40.0	3108	2676	2244	1797	1738	1909	1891	1984	2343	2414
42.5	3249	2768	2259	1748	1679	1889	1878	2006	2538	2385
45.0	3445	2865	2284	1695	1611	1818	1843	1951	2744	2254
47.5	3650	3010	2345	1655	1541	1743	1785	1894	2797	2149
50.0	3976	3247	2472	1640	1476	1668	1724	1845	2746	2103
52.5	4447	3573	2657	1650	1411	1603	1658	1777	2571	2067
55.0	5043	4018	2931	1667	1353	1523	1581	1683	2300	2019
57.5	5930	4611	3197	1667	1283	1414	1493	1566	1957	1929
60.0	6972	5132	3165	1574	1195	1280	1376	1412	1605	1876
62.5	7628	5298	2775	1378	1094	1144	1238	1261	1295	1816
65.0	7409	4867	2120	1144	990	1025	1092	1149	1093	1724
67.5	5972	3957	1492	937	876	900	964	1046	956	1556
70.0	3632	2427	953	756	753	770	842	955	874	1315
72.5	1643	1057	567	589	614	648	718	853	765	995
75.0	635	477	374	462	516	552	613	673	550	681
77.5	320	259	286	394	440	475	460	414	333	434

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CANDELA TABULATION - (Cont.)

80.0	193	175	235	339	372	339	280	308	238	316
82.5	136	124	197	292	278	221	202	227	148	230
85.0	86	83	155	224	179	154	144	115	71	146
87.5	42	44	107	139	104	87	57	54	32	67
90.0	15	10	37	56	46	38	27	16	7	9
92.5	9	9	19	30	37	34	24	13	3	3
95.0	8	9	17	28	35	31	22	12	4	3
97.5	7	8	14	23	29	26	19	11	4	3
100.0	7	8	11	19	24	22	17	10	4	3
102.5	7	8	10	16	20	19	15	10	5	3
105.0	7	8	10	14	17	16	14	10	5	3
107.5	7	8	10	12	14	15	13	10	5	4
110.0	7	9	10	11	13	13	12	10	6	4
112.5	7	9	10	11	13	13	12	10	7	4
115.0	8	9	10	11	13	13	12	10	7	5
117.5	8	9	10	11	13	13	12	10	7	5
120.0	8	9	10	11	13	13	12	10	8	6
122.5	9	10	10	12	14	14	13	11	8	6
125.0	9	10	10	12	13	14	13	11	9	7
127.5	9	10	11	11	13	14	13	11	9	7
130.0	9	10	10	11	13	14	13	11	9	7
132.5	9	10	10	11	13	13	12	11	9	7
135.0	9	10	10	11	12	12	11	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	923	923
2.5	932	936
5.0	940	954
7.5	955	969
10.0	1019	1025
12.5	1137	1147
15.0	1237	1262
17.5	1317	1329
20.0	1401	1404
22.5	1421	1465
25.0	1514	1551

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CANDELA TABULATION - (Cont.)

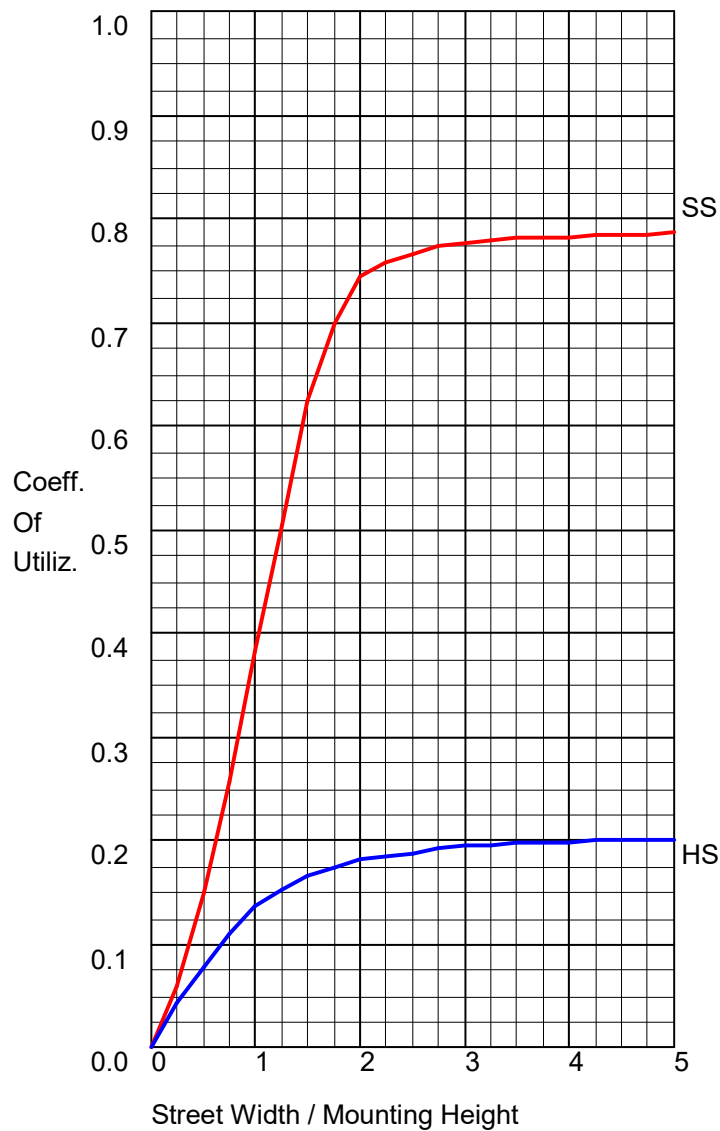
27.5	1584	1611
30.0	1690	1725
32.5	1898	1922
35.0	2123	2136
37.5	2295	2283
40.0	2157	2111
42.5	1910	1854
45.0	1740	1679
47.5	1636	1572
50.0	1550	1491
52.5	1477	1405
55.0	1380	1275
57.5	1298	1168
60.0	1297	1119
62.5	1355	1131
65.0	1459	1210
67.5	1594	1365
70.0	1679	1557
72.5	1514	1588
75.0	1216	1442
77.5	1007	1210
80.0	750	873
82.5	520	589
85.0	363	399
87.5	279	407
90.0	15	26
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

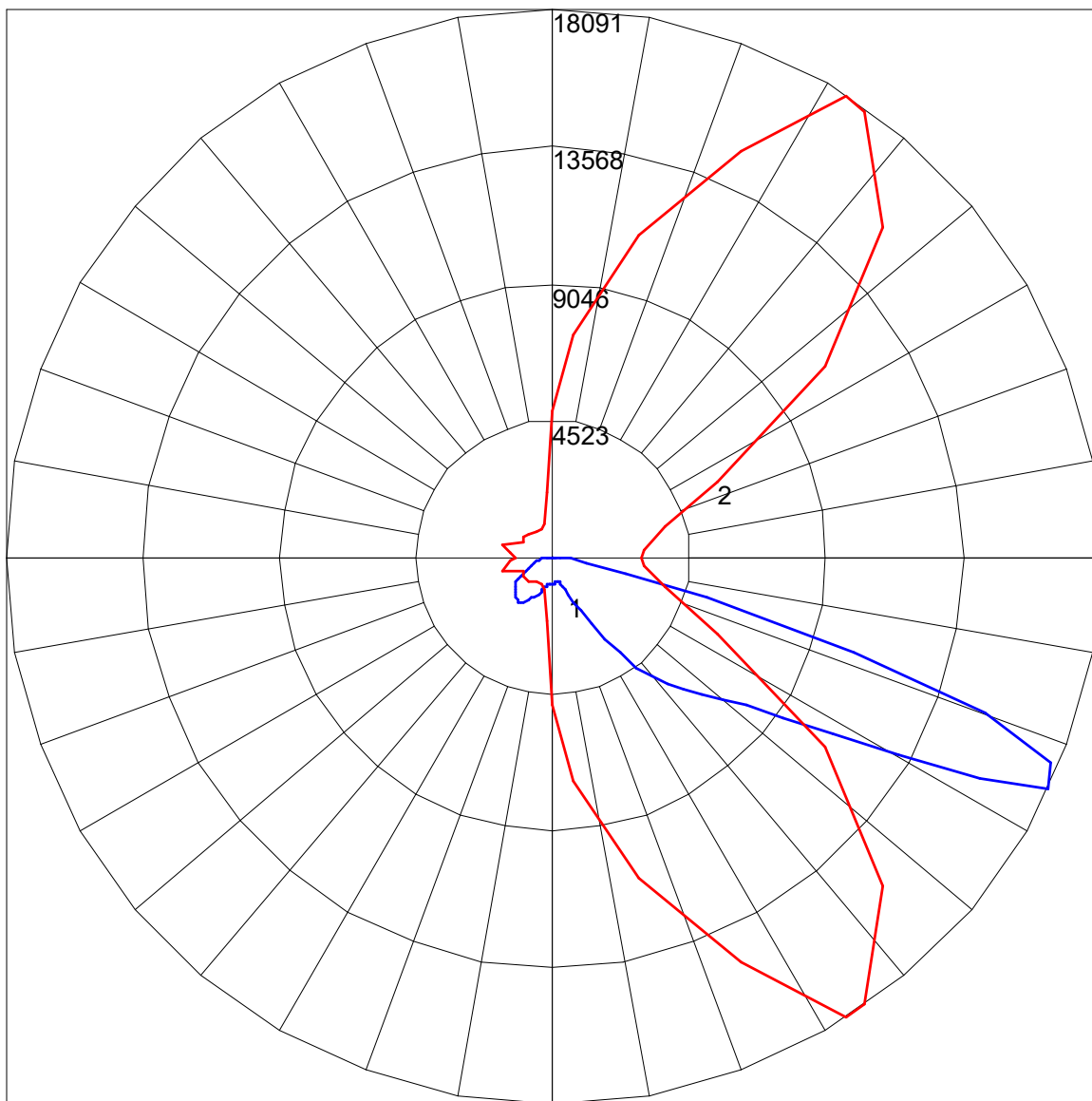
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

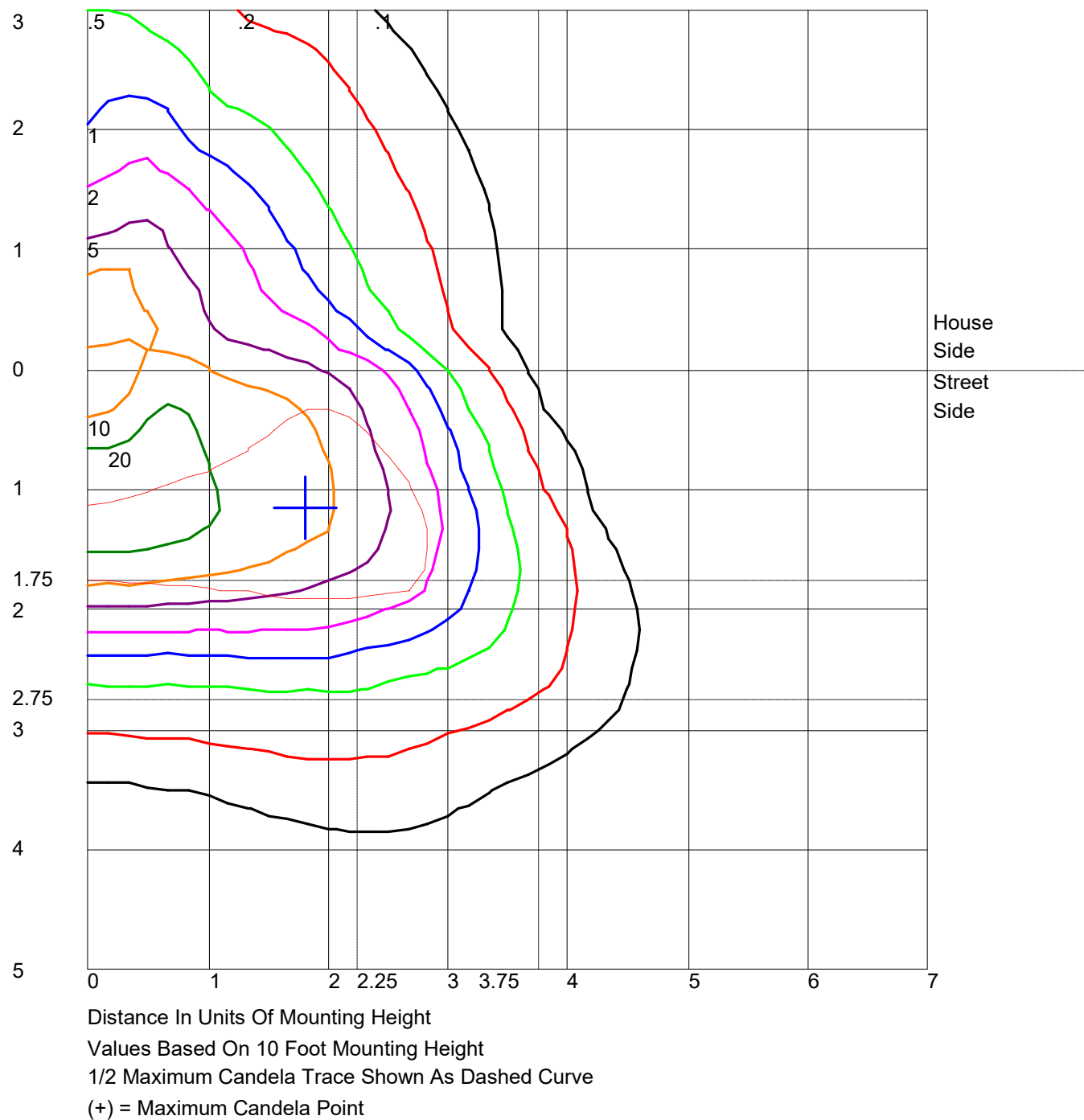
	Lumens	Percent Of Luminaire
Downward Street Side	14847.0	79.2
Downward House Side	3856.8	20.6
Downward Total	18703.8	99.7
Upward Street Side	21.8	0.1
Upward House Side	30.1	0.2
Upward Total	51.9	0.3
Total Flux	18755.7	100.0

POLAR GRAPH

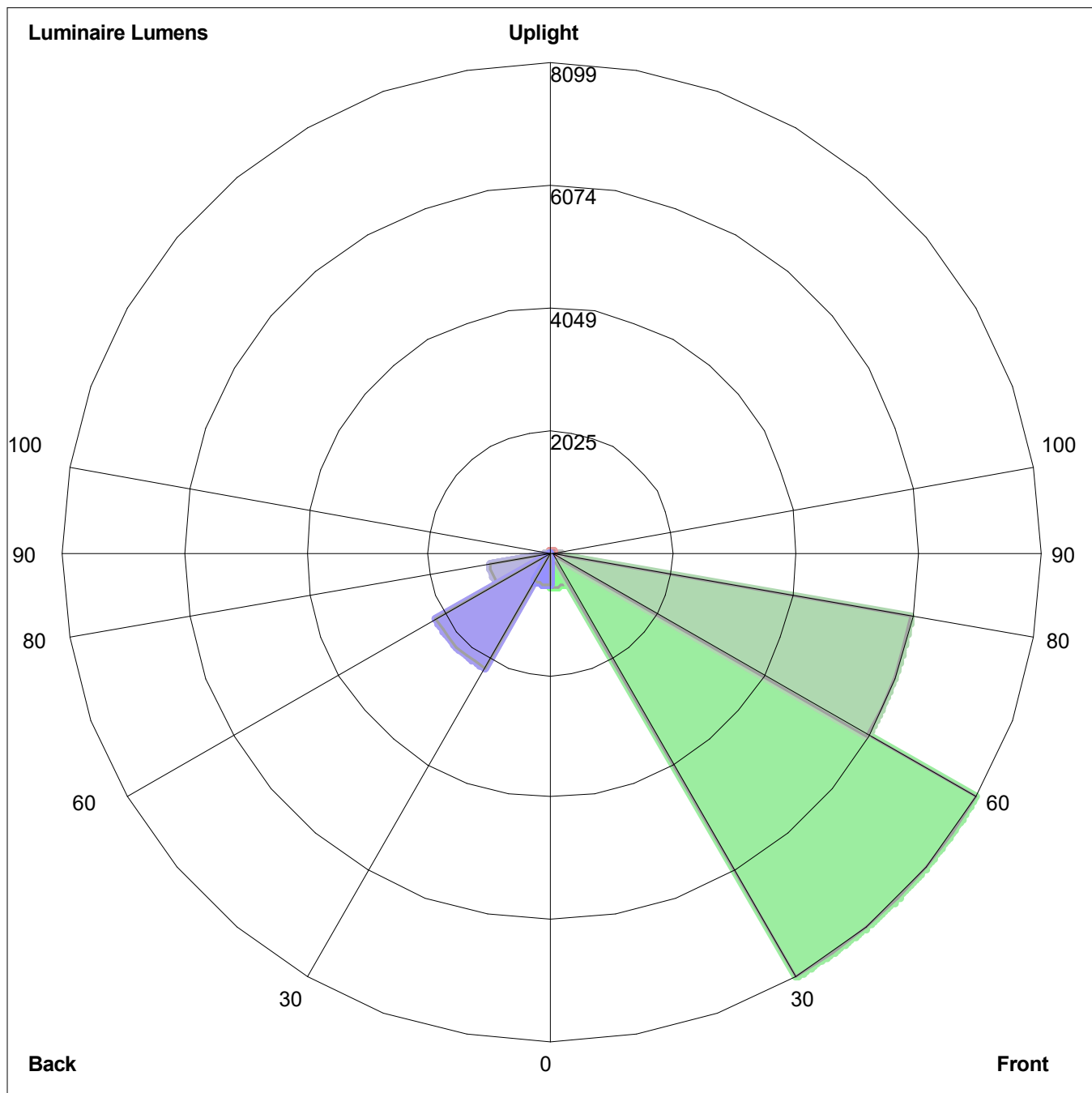


Maximum Candela = 18091 Located At Horizontal Angle = 57.5, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=562.9, Medium=8098.7, High=6039.4, Very High=146.0
Back: Low=537.5, Medium=2195.2, High=1025.6, Very High=98.6
Uplight: Low=16.5, High=35.3

BUG Rating : B3-U2-G3