



IES ROAD REPORT

PHOTOMETRIC FILENAME : LXM4-PT-3-LED-25L-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11759

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/20

[TEST DATE] 04/26/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] LXM4-PT-3-LED-25L-50-IL

[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	22406
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	227.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24474
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	24474
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	59 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1045 (4.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	833.0	N.A.	3.7
FM - Front-Medium (30-60)	13280.4	N.A.	59.3
FH - Front-High (60-80)	5836.1	N.A.	26.0
FVH - Front-Very High (80-90)	139.0	N.A.	0.6
BL - Back-Low (0-30)	403.3	N.A.	1.8
BM - Back-Medium (30-60)	1519.5	N.A.	6.8
BH - Back-High (60-80)	300.5	N.A.	1.3
BVH - Back-Very High (80-90)	33.0	N.A.	0.1
UL - Uplight-Low (90-100)	15.0	N.A.	0.1
UH - Uplight-High (100-180)	46.1	N.A.	0.2
Total	22405.9	N.A.	100.0
BUG Rating	B2-U2-G3		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	5.0	15.0	25.0	35.0	45.0	55.0	57.5	65.0	75.0
0.0	1087	1087	1087	1087	1087	1087	1087	1087	1087	1087
2.5	1071	1065	1062	1057	1078	1075	1074	1072	1077	1066
5.0	1092	1062	1075	1075	1067	1045	1028	1029	1022	1020
7.5	1051	1040	1058	1052	1033	1024	1042	1038	1041	1045
10.0	1038	1039	1067	1013	1059	1057	1105	1100	1100	1093
12.5	1139	1138	1115	1103	1128	1118	1158	1161	1173	1154
15.0	1220	1206	1211	1228	1272	1260	1260	1258	1267	1278
17.5	1290	1315	1292	1337	1396	1456	1389	1383	1382	1397
20.0	1496	1539	1527	1514	1563	1630	1638	1646	1575	1568
22.5	1731	1724	1789	1806	1886	1946	2041	2039	1944	1874
25.0	2183	2149	2199	2283	2383	2455	2619	2623	2541	2320
27.5	3031	3042	3068	2990	3102	3265	3410	3392	3453	3056
30.0	3986	3950	3903	3994	4076	4335	4464	4496	4469	3977
32.5	5149	5156	4927	4858	5121	5393	5685	5699	5726	4913
35.0	6240	6195	6065	6198	6122	6687	6924	6990	6790	5869
37.5	7808	7779	7389	7321	7456	7712	8049	8028	7761	6468
40.0	9205	9213	9008	8728	8651	8885	9117	8991	8526	7153
42.5	10841	10986	10677	10205	9976	10051	9907	9892	9123	7752
45.0	12643	12821	12656	12005	11514	11326	10811	10733	9798	8472
47.5	14433	14575	14496	13976	13462	12823	11898	11816	10776	9613
50.0	15766	15923	16332	16065	15349	14587	13615	13423	12293	11063
52.5	15681	15997	17041	17783	17895	16893	15960	15786	14563	12733
55.0	14647	14807	16105	17950	19277	19433	19671	19584	17671	14066
57.5	11816	12113	13954	16594	19484	21309	23138	23180	19909	14480
60.0	7597	7972	10121	13655	18096	21688	24391	24474	20366	13831
62.5	4035	4172	5847	9439	14893	19970	23473	23533	19553	12428
65.0	2166	2236	2989	5402	10370	16420	21063	21216	17156	9804
67.5	1256	1275	1644	2877	6236	11118	16427	16814	13154	6315
70.0	830	880	1109	1899	3465	6289	11071	11306	8663	3579
72.5	612	649	804	1401	2300	3154	5901	6397	4694	1563
75.0	419	445	580	1098	1769	1806	2663	2953	1985	762
77.5	297	314	435	904	1392	1195	1186	1306	1022	479
80.0	230	241	338	712	1045	782	617	653	625	357
82.5	179	188	268	565	697	467	373	369	411	280
85.0	131	134	200	410	423	231	230	227	234	188
87.5	78	84	141	234	156	86	85	81	87	88
90.0	18	19	31	59	33	19	16	15	14	13
92.5	6	6	9	13	10	12	13	12	10	9
95.0	4	3	6	8	9	10	10	10	9	8
97.5	3	3	5	8	8	9	9	8	7	7
100.0	3	3	5	8	8	9	8	8	7	7
102.5	4	3	6	8	9	9	8	8	7	7
105.0	4	3	6	8	9	9	8	8	7	7
107.5	4	4	6	8	9	9	8	7	7	7
110.0	5	4	6	8	9	9	8	8	7	7
112.5	5	5	7	9	10	10	8	8	8	8
115.0	6	6	7	9	10	10	9	8	8	8
117.5	7	7	7	10	10	12	9	8	8	9
120.0	7	7	8	10	12	12	9	9	8	9
122.5	8	8	9	10	12	12	10	9	9	9
125.0	9	9	9	10	12	12	10	9	9	10
127.5	10	9	10	10	12	13	10	9	10	10
130.0	10	10	10	10	13	13	10	10	10	12

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CANDELA TABULATION - (Cont.)

132.5	10	10	10	12	12	13	12	10	10	12
135.0	8	8	8	9	10	10	9	9	9	10
137.5	4	3	5	7	8	8	7	7	7	8
140.0	1	1	4	6	6	7	6	6	6	7
142.5	1	1	4	6	6	6	6	6	6	6
145.0	1	1	4	5	6	6	6	6	6	6
147.5	1	1	3	5	6	6	5	5	5	6
150.0	1	1	3	5	6	5	5	5	5	6
152.5	1	1	3	5	5	5	5	5	5	6
155.0	0	1	3	5	5	5	5	5	5	6
157.5	0	1	3	4	5	5	4	4	5	5
160.0	0	1	3	4	5	4	4	4	4	5
162.5	0	1	3	4	4	4	4	4	4	4
165.0	0	1	3	5	5	4	4	4	4	4
167.5	0	1	3	5	5	5	4	4	4	4
170.0	0	1	3	5	5	5	4	4	4	4
172.5	0	1	3	5	5	5	4	4	4	4
175.0	1	1	3	5	5	5	4	4	4	4
177.5	1	1	3	5	5	5	4	4	4	4
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	1087	1087	1087	1087	1087	1087	1087	1087	1087	1087
2.5	1075	1080	1078	1078	1089	1103	1091	1091	1088	1092
5.0	1031	1032	1034	1016	1057	1070	1076	1072	1066	1049
7.5	1029	1031	1037	1054	1044	1029	1006	983	964	977
10.0	1073	1058	1054	1114	1059	1027	938	908	838	827
12.5	1123	1115	1116	1116	1056	991	881	778	727	697
15.0	1180	1151	1151	1162	1072	925	793	713	664	636
17.5	1287	1246	1260	1171	1034	839	750	696	657	618
20.0	1412	1355	1309	1218	975	798	719	697	668	615
22.5	1692	1580	1518	1305	955	798	727	706	684	635
25.0	2078	1905	1770	1383	982	850	729	715	759	732
27.5	2654	2346	2123	1473	1087	916	740	750	911	937
30.0	3322	2886	2481	1544	1143	957	785	813	1119	1182
32.5	3885	3337	2777	1595	1155	985	812	900	1320	1501
35.0	4455	3703	3010	1614	1127	991	838	919	1548	1872
37.5	4947	4079	3204	1641	1079	977	830	933	1862	2347
40.0	5442	4413	3415	1660	1031	936	813	907	2177	2360
42.5	6000	4787	3625	1690	985	886	768	842	2353	1868
45.0	6827	5425	3945	1736	933	822	703	770	1907	1390
47.5	7979	6194	4340	1796	873	726	616	696	1248	1033
50.0	9169	7018	4840	1832	793	594	499	594	706	792
52.5	10216	7705	5097	1797	648	430	364	449	463	634
55.0	10693	7870	4997	1639	506	323	274	308	324	513
57.5	10543	7429	4442	1392	412	271	225	217	226	414
60.0	9784	6539	3492	1079	352	241	192	167	167	334
62.5	8184	5093	2391	781	301	211	160	129	127	275
65.0	5433	3347	1476	536	251	175	130	102	94	227
67.5	3112	1955	871	368	207	141	100	80	71	184
70.0	1412	989	498	264	167	111	73	61	51	141
72.5	606	512	347	217	132	90	61	50	35	105
75.0	378	353	292	196	109	77	54	37	23	78
77.5	285	275	245	178	97	68	48	30	16	57

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CANDELA TABULATION - (Cont.)

80.0	255	232	203	158	86	63	43	26	13	45
82.5	189	173	168	132	76	59	42	24	12	38
85.0	114	109	123	94	65	55	40	23	10	31
87.5	57	50	64	60	54	48	36	21	9	26
90.0	13	10	20	35	43	41	30	19	7	15
92.5	9	7	16	28	37	35	26	17	5	5
95.0	9	6	15	25	33	31	24	16	6	5
97.5	8	7	12	21	26	26	20	14	6	4
100.0	8	7	12	16	21	21	17	13	7	5
102.5	8	7	10	14	18	18	16	13	7	5
105.0	8	8	10	14	16	16	15	13	8	5
107.5	8	8	10	14	15	15	15	13	8	5
110.0	8	9	12	13	15	15	15	13	9	6
112.5	8	9	12	14	15	15	15	13	9	6
115.0	9	10	12	14	15	15	15	13	10	7
117.5	9	10	12	14	15	15	15	14	10	7
120.0	10	12	13	14	15	15	15	14	12	8
122.5	10	12	13	14	15	15	16	14	12	8
125.0	12	13	13	15	15	15	16	15	12	9
127.5	12	13	14	14	15	15	16	15	13	10
130.0	12	13	14	15	15	16	16	15	13	10
132.5	12	13	13	14	15	16	16	15	12	10
135.0	12	12	13	14	15	15	15	14	12	8
137.5	9	9	10	12	14	14	14	13	9	7
140.0	8	8	9	10	12	12	12	10	8	6
142.5	7	8	8	9	10	12	10	9	7	5
145.0	7	7	8	9	10	10	10	9	6	4
147.5	7	7	8	9	9	10	9	8	6	4
150.0	7	7	8	8	9	9	9	8	6	3
152.5	7	7	7	8	9	9	9	7	5	3
155.0	6	7	7	8	8	9	8	7	5	2
157.5	6	7	7	7	8	8	7	6	4	2
160.0	5	6	6	7	7	7	7	5	3	1
162.5	5	6	6	6	7	6	6	5	2	1
165.0	5	5	6	6	6	6	6	4	2	0
167.5	5	5	5	6	6	6	5	4	2	0
170.0	4	5	5	5	6	5	5	4	2	0
172.5	4	5	5	5	5	5	5	4	2	0
175.0	4	5	5	5	5	5	5	4	2	0
177.5	4	4	4	4	5	4	4	3	2	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	1087	1087
2.5	1094	1096
5.0	1040	1043
7.5	953	945
10.0	797	795
12.5	691	684
15.0	638	628
17.5	610	609
20.0	600	592
22.5	589	574
25.0	635	609

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CANDELA TABULATION - (Cont.)

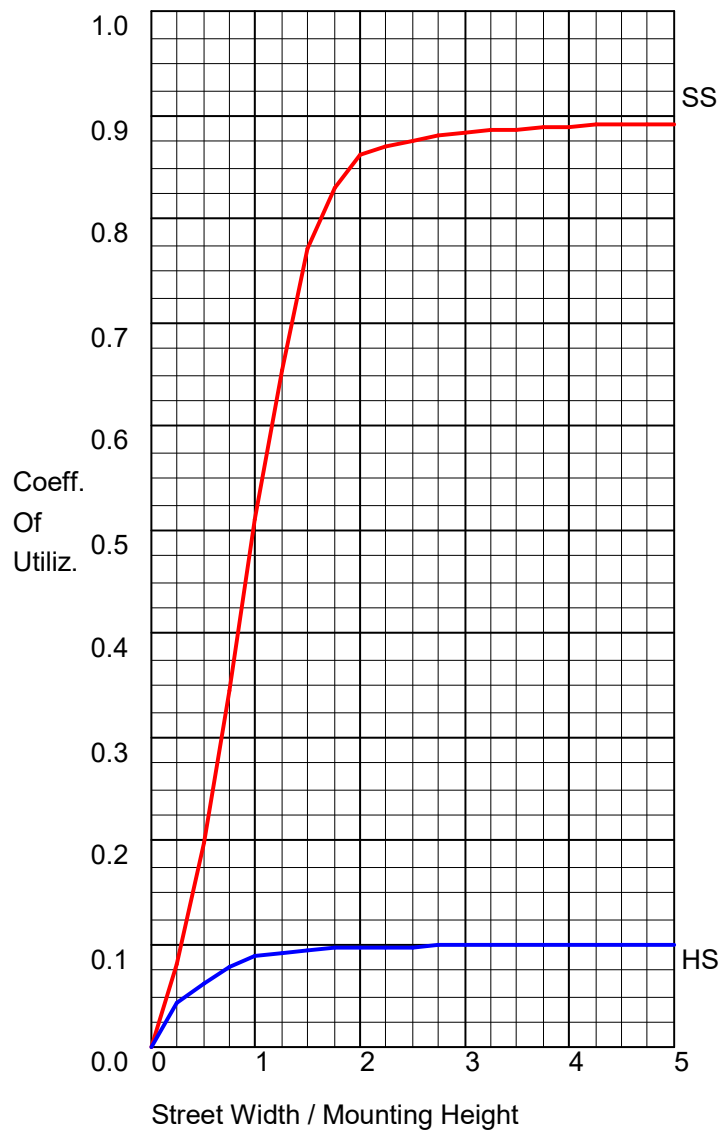
27.5	752	723
30.0	920	901
32.5	1181	1126
35.0	1460	1393
37.5	1491	1373
40.0	1190	1057
42.5	886	760
45.0	660	589
47.5	535	469
50.0	459	382
52.5	424	330
55.0	416	306
57.5	426	316
60.0	447	350
62.5	465	394
65.0	472	427
67.5	449	429
70.0	405	410
72.5	354	361
75.0	275	287
77.5	215	234
80.0	173	194
82.5	141	155
85.0	109	120
87.5	83	91
90.0	38	45
92.5	0	0
95.0	0	0
97.5	0	0
100.0	0	0
102.5	1	0
105.0	1	0
107.5	1	0
110.0	2	1
112.5	3	2
115.0	3	3
117.5	4	4
120.0	5	5
122.5	6	6
125.0	7	6
127.5	8	7
130.0	8	8
132.5	8	7
135.0	6	6
137.5	4	4
140.0	2	2
142.5	2	1
145.0	1	0
147.5	1	0
150.0	1	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

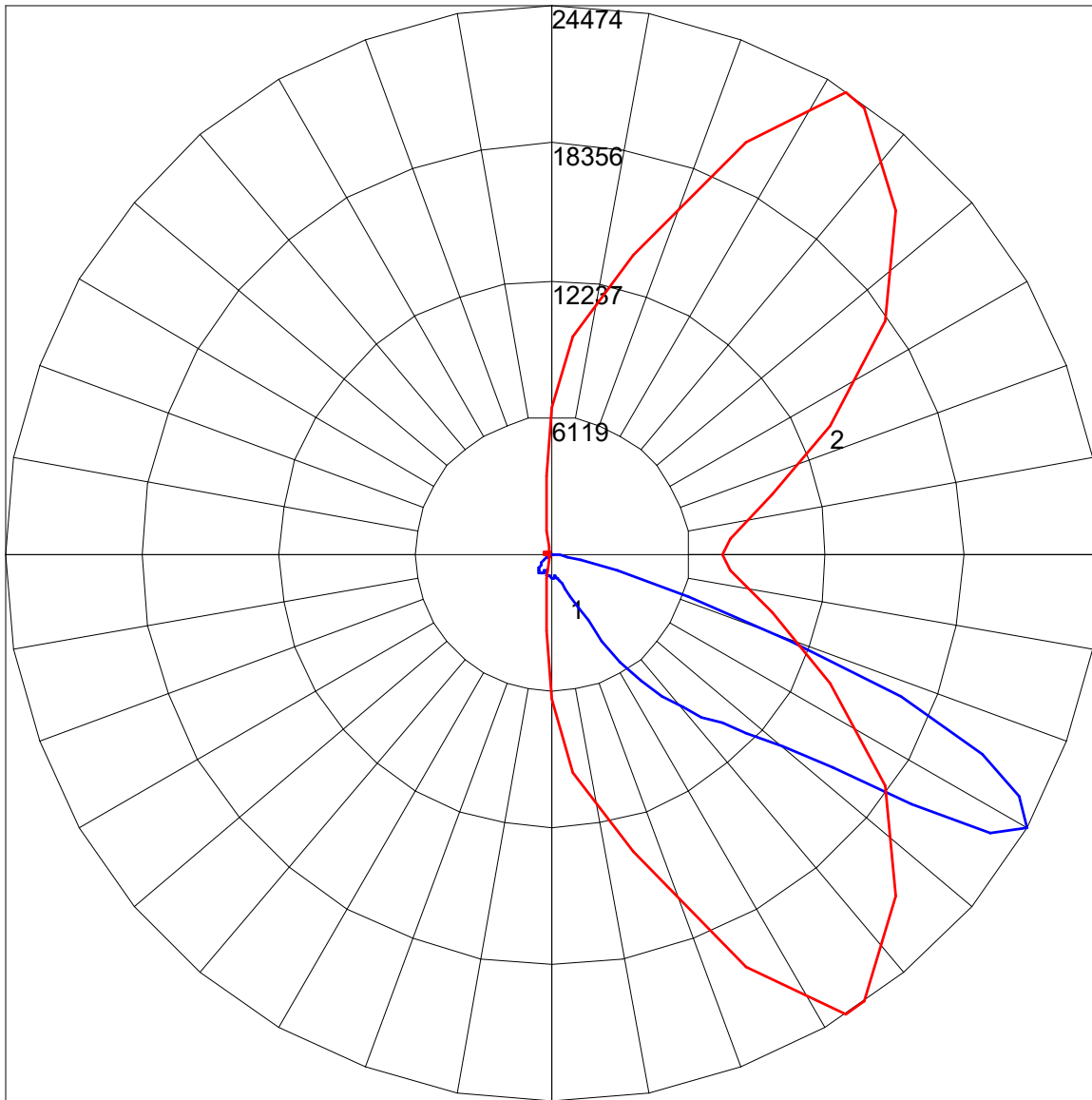
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

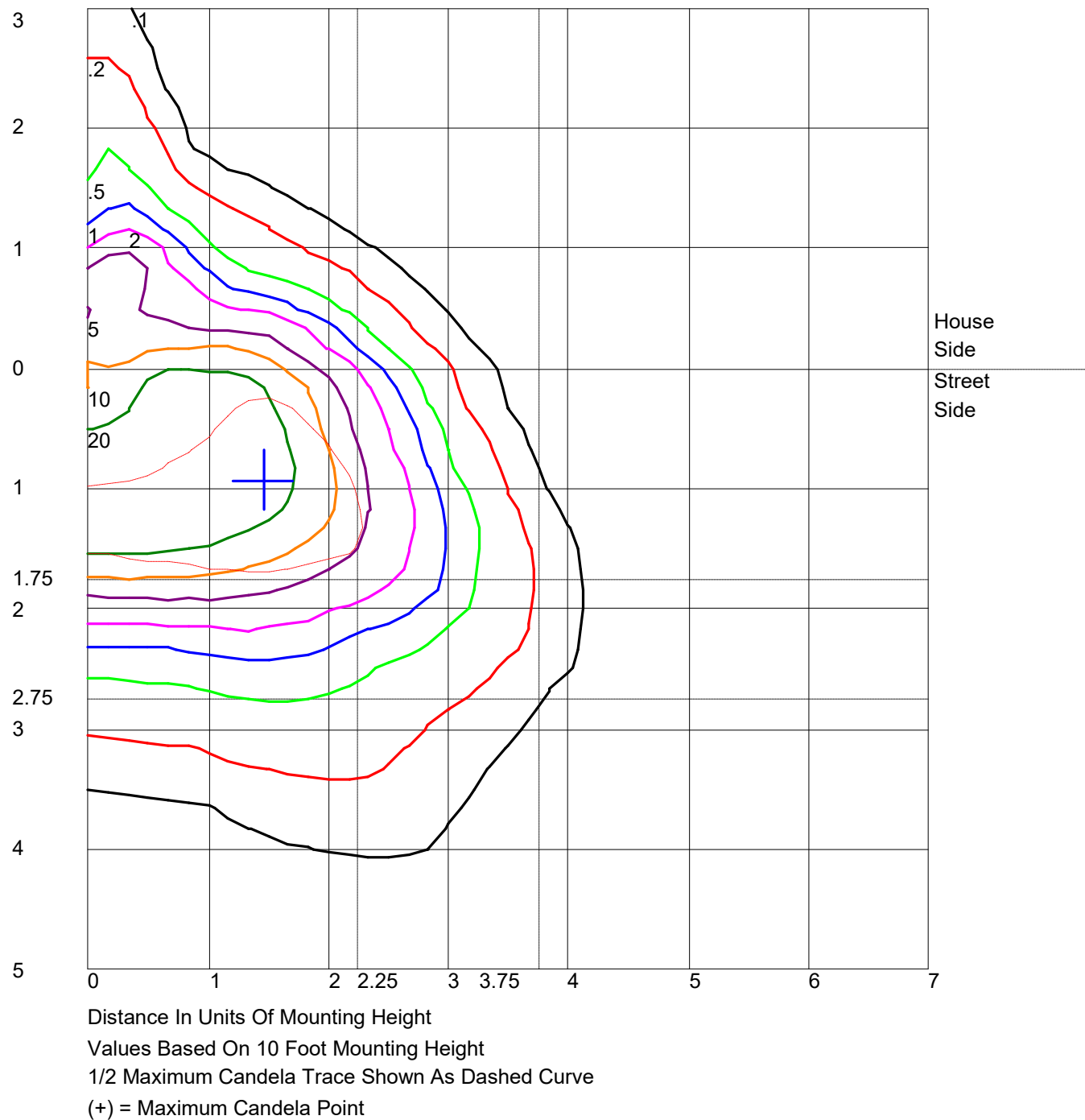
	Lumens	Percent Of Luminaire
Downward Street Side	20088.5	89.7
Downward House Side	2256.2	10.1
Downward Total	22344.7	99.7
Upward Street Side	25.1	0.1
Upward House Side	36.0	0.2
Upward Total	61.1	0.3
Total Flux	22405.8	100.0

POLAR GRAPH

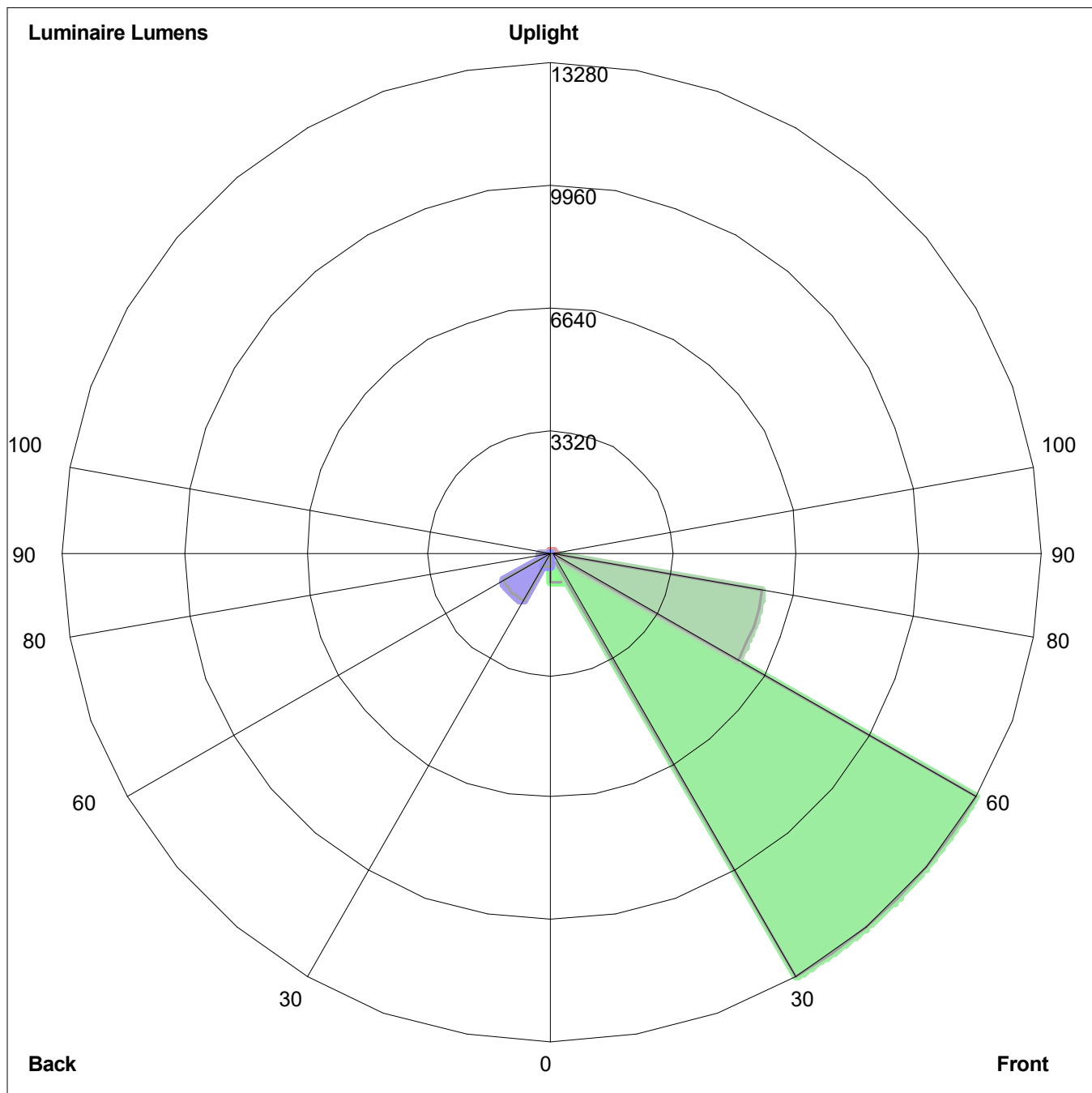


Maximum Candela = 24474 Located At Horizontal Angle = 57.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=833.0, Medium=13280.4, High=5836.1, Very High=139.0
Back: Low=403.3, Medium=1519.5, High=300.5, Very High=33.0
Uplight: Low=15.0, High=46.1

BUG Rating : B2-U2-G3