



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-3-LED-25L-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11760
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/26/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-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	22366
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	227.5
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24507
Maximum Candela Angle	57.5H 60V
Maximum Candela (<90 Degrees Vertical)	24507
Maximum Candela Angle (<90 Degrees Vertical)	57.5H 60V
Maximum Candela At 90 Degrees Vertical	51 (0.2% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1055 (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)	830.4	N.A.	3.7
FM - Front-Medium (30-60)	13260.9	N.A.	59.3
FH - Front-High (60-80)	5816.8	N.A.	26.0
FVH - Front-Very High (80-90)	138.8	N.A.	0.6
BL - Back-Low (0-30)	402.9	N.A.	1.8
BM - Back-Medium (30-60)	1521.7	N.A.	6.8
BH - Back-High (60-80)	299.3	N.A.	1.3
BVH - Back-Very High (80-90)	33.0	N.A.	0.1
UL - Uplight-Low (90-100)	15.3	N.A.	0.1
UH - Uplight-High (100-180)	46.8	N.A.	0.2
Total	22365.9	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	1082	1082	1082	1082	1082	1082	1082	1082	1082	1082
2.5	1065	1059	1068	1062	1065	1067	1073	1067	1069	1066
5.0	1075	1068	1065	1066	1056	1044	1030	1028	1018	1014
7.5	1039	1037	1054	1050	1027	1021	1035	1032	1041	1040
10.0	1035	1036	1065	1013	1057	1057	1106	1099	1099	1091
12.5	1124	1138	1112	1100	1125	1120	1156	1158	1170	1149
15.0	1197	1196	1202	1219	1267	1251	1260	1247	1255	1274
17.5	1275	1304	1289	1338	1396	1443	1390	1369	1374	1389
20.0	1490	1531	1518	1513	1558	1619	1650	1629	1577	1558
22.5	1725	1714	1773	1814	1883	1926	2030	2015	1971	1852
25.0	2173	2114	2170	2280	2392	2426	2581	2574	2587	2327
27.5	2993	2995	3030	3015	3124	3237	3412	3421	3465	3078
30.0	3939	3935	3850	4013	4090	4302	4470	4537	4489	4009
32.5	5129	5143	4927	4863	5148	5361	5695	5706	5709	4930
35.0	6178	6177	6077	6143	6151	6769	6936	7026	6765	5871
37.5	7823	7781	7480	7253	7405	7773	8048	8056	7744	6479
40.0	9164	9304	9089	8633	8625	8948	9061	9048	8491	7136
42.5	10934	10966	10676	10155	9934	9987	9858	9852	9106	7751
45.0	12762	12812	12508	11876	11436	11248	10775	10617	9777	8461
47.5	14524	14490	14379	13885	13456	12763	11920	11740	10806	9566
50.0	15692	15725	16032	16142	15325	14494	13506	13261	12359	11042
52.5	15675	15985	16928	17888	17917	16748	16106	15768	14563	12780
55.0	14612	14841	16065	17956	19286	19483	19902	19861	17641	14034
57.5	11812	12009	13990	16696	19424	21322	23282	23383	19948	14429
60.0	7639	7851	9914	13655	18123	21539	24406	24507	20409	13871
62.5	4085	4105	5716	9517	14960	19923	23470	23659	19567	12413
65.0	2090	2210	2914	5489	10450	16417	20959	21370	17134	9747
67.5	1221	1290	1660	2845	6355	11130	16412	16959	12906	6244
70.0	838	881	1115	1845	3446	6296	10787	11505	8243	3629
72.5	618	652	807	1397	2287	3158	5922	6519	4400	1567
75.0	422	448	584	1090	1743	1809	2573	2815	1976	762
77.5	300	311	428	907	1378	1195	1154	1249	1033	484
80.0	232	239	333	714	1055	752	623	632	632	359
82.5	181	186	265	568	701	457	371	379	418	280
85.0	127	136	201	404	416	236	227	232	241	191
87.5	79	86	142	228	154	89	84	86	81	90
90.0	19	21	34	51	29	20	17	17	14	14
92.5	6	7	9	13	10	12	12	13	10	9
95.0	3	3	6	8	9	10	10	10	9	8
97.5	3	3	5	8	9	9	9	9	8	7
100.0	3	3	6	8	9	9	8	8	7	7
102.5	3	3	6	8	9	9	8	8	7	7
105.0	4	4	6	8	9	9	8	8	7	7
107.5	4	4	6	8	9	9	8	8	7	7
110.0	5	5	6	9	9	10	8	8	7	7
112.5	6	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	8	9	12	12	9	9	8	9
120.0	8	8	8	10	12	12	10	9	9	9
122.5	8	8	9	10	12	12	10	9	9	10
125.0	9	9	9	12	13	12	10	10	9	10
127.5	9	9	10	12	13	13	10	10	10	12
130.0	10	10	10	12	13	13	12	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	10	10	10	9	9	9	10
137.5	3	3	5	7	8	8	7	7	7	8
140.0	1	1	4	6	7	7	6	6	6	7
142.5	1	1	4	5	6	6	6	6	6	6
145.0	1	1	4	5	6	6	6	6	6	6
147.5	0	1	3	5	6	6	5	5	6	6
150.0	0	1	3	5	6	6	5	5	5	6
152.5	0	1	3	5	5	5	5	5	5	6
155.0	1	1	3	5	5	5	5	5	5	6
157.5	0	1	3	5	5	5	5	5	5	5
160.0	0	1	3	4	5	5	4	4	5	5
162.5	0	1	3	4	5	4	4	4	4	4
165.0	0	1	3	5	5	5	4	4	4	4
167.5	0	1	3	5	5	5	4	4	4	4
170.0	1	1	3	5	5	5	5	4	4	4
172.5	0	1	3	5	5	5	4	4	4	4
175.0	0	1	3	5	5	5	4	4	4	4
177.5	1	1	3	5	5	5	5	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	1082	1082	1082	1082	1082	1082	1082	1082	1082	1082
2.5	1069	1076	1077	1076	1085	1100	1089	1090	1081	1088
5.0	1027	1034	1037	1011	1049	1069	1066	1048	1051	1048
7.5	1021	1031	1032	1049	1043	1027	1001	975	956	974
10.0	1068	1056	1048	1111	1052	1020	938	907	833	824
12.5	1125	1113	1111	1110	1050	989	877	768	723	694
15.0	1181	1152	1153	1154	1065	927	786	715	661	629
17.5	1277	1233	1260	1170	1034	831	749	694	654	620
20.0	1401	1343	1309	1212	965	795	721	695	667	619
22.5	1678	1572	1511	1295	952	795	729	708	689	637
25.0	2048	1887	1756	1379	988	850	730	718	761	742
27.5	2625	2313	2135	1461	1085	922	742	752	910	955
30.0	3281	2867	2490	1527	1141	962	784	816	1128	1198
32.5	3862	3341	2776	1579	1156	988	810	900	1323	1522
35.0	4449	3705	3022	1601	1130	991	838	919	1577	1893
37.5	4937	4085	3201	1624	1081	976	831	931	1896	2361
40.0	5438	4422	3428	1647	1036	934	817	901	2206	2354
42.5	6003	4813	3643	1670	985	884	771	843	2371	1863
45.0	6792	5406	3976	1729	933	820	705	775	1923	1408
47.5	7933	6168	4359	1789	867	726	623	699	1267	1054
50.0	9101	7024	4795	1811	782	582	501	602	717	803
52.5	10141	7655	5118	1774	651	430	366	455	469	635
55.0	10630	7827	5022	1625	510	322	272	307	325	514
57.5	10474	7381	4434	1387	416	271	224	218	222	414
60.0	9618	6421	3486	1073	353	241	191	165	165	337
62.5	8021	5016	2383	778	303	210	159	128	126	275
65.0	5421	3365	1463	528	252	175	129	101	94	228
67.5	3107	1964	885	361	202	138	97	80	70	184
70.0	1416	1002	504	259	162	110	73	61	51	141
72.5	605	515	350	214	131	89	61	50	35	106
75.0	378	352	291	193	109	76	53	36	23	77
77.5	283	274	244	178	95	69	47	30	15	58

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CANDELA TABULATION - (Cont.)

80.0	253	230	202	157	86	63	43	25	13	46
82.5	187	171	164	131	76	59	42	24	12	39
85.0	116	111	120	93	65	54	40	23	12	34
87.5	58	52	65	61	53	48	36	21	9	27
90.0	13	12	21	36	43	41	31	19	7	16
92.5	9	7	16	29	37	36	26	17	5	5
95.0	9	6	15	26	34	31	24	16	6	5
97.5	8	7	12	21	27	26	20	15	7	5
100.0	8	7	12	17	22	21	17	14	7	5
102.5	8	8	10	14	18	18	16	13	7	5
105.0	8	8	10	14	16	17	15	13	8	5
107.5	8	8	10	14	15	16	15	13	9	6
110.0	8	9	12	14	15	15	15	13	9	6
112.5	8	9	12	14	15	15	15	13	10	7
115.0	9	10	12	14	15	15	15	14	10	7
117.5	9	10	13	14	15	15	15	14	10	7
120.0	10	12	13	14	15	15	15	14	12	8
122.5	10	13	13	14	15	16	15	14	12	8
125.0	12	13	14	15	15	16	16	15	12	9
127.5	12	13	14	15	15	16	16	15	13	10
130.0	13	13	14	15	15	16	16	15	13	10
132.5	12	13	14	15	15	16	16	15	13	10
135.0	12	12	13	14	15	15	15	14	12	9
137.5	9	10	10	12	13	14	14	12	9	7
140.0	8	8	9	10	12	12	12	10	8	5
142.5	7	8	8	9	10	12	10	9	7	5
145.0	7	8	8	9	10	10	10	9	7	4
147.5	7	8	8	9	9	10	9	8	6	4
150.0	7	8	8	8	9	9	9	8	6	3
152.5	7	7	8	8	9	9	9	8	5	3
155.0	7	7	8	8	9	9	8	7	5	3
157.5	6	7	7	8	8	8	8	6	4	2
160.0	6	6	7	7	8	7	7	5	3	1
162.5	5	6	6	7	7	7	6	5	3	1
165.0	5	5	6	6	7	6	6	4	2	0
167.5	5	5	6	6	6	6	5	4	2	0
170.0	4	5	5	6	6	6	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	5	5	5	4	4	4	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	1082	1082
2.5	1091	1093
5.0	1036	1040
7.5	953	946
10.0	794	800
12.5	690	688
15.0	635	623
17.5	607	604
20.0	602	593
22.5	591	578
25.0	643	618

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CANDELA TABULATION - (Cont.)

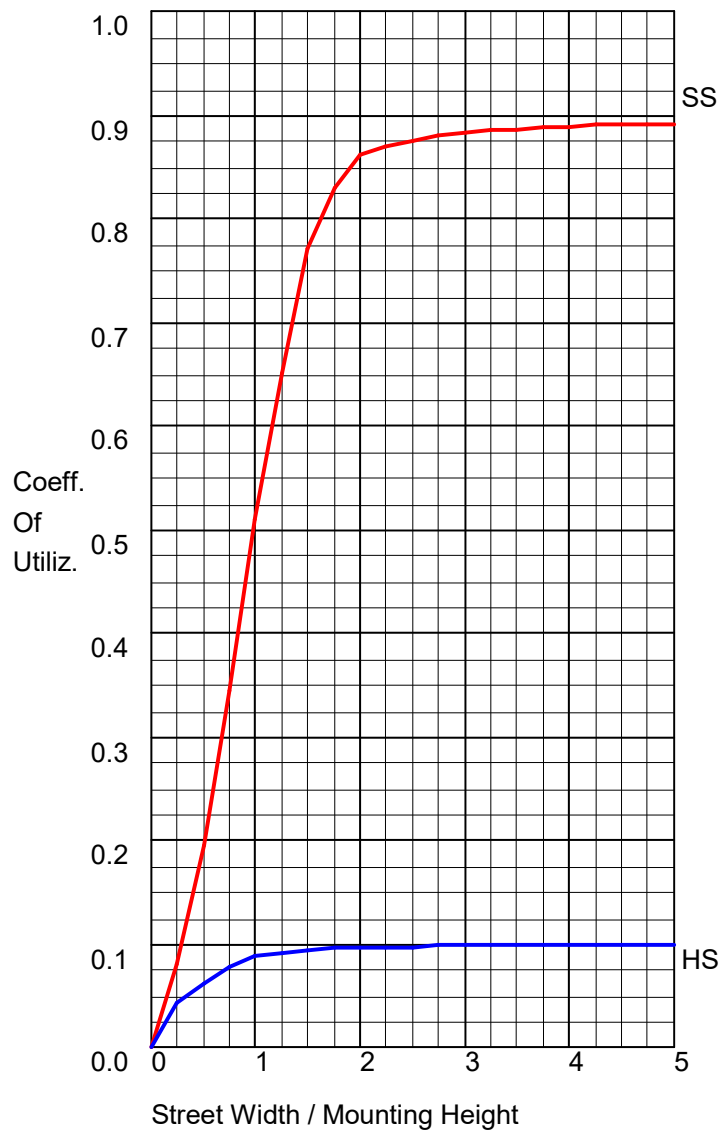
27.5	763	727
30.0	940	907
32.5	1190	1137
35.0	1475	1411
37.5	1503	1399
40.0	1208	1079
42.5	901	775
45.0	666	598
47.5	542	476
50.0	465	378
52.5	428	328
55.0	419	308
57.5	431	316
60.0	451	350
62.5	468	396
65.0	476	430
67.5	452	429
70.0	401	410
72.5	352	359
75.0	273	289
77.5	216	236
80.0	174	196
82.5	141	157
85.0	109	122
87.5	82	90
90.0	38	41
92.5	0	0
95.0	0	0
97.5	1	0
100.0	1	0
102.5	1	0
105.0	1	0
107.5	2	0
110.0	2	1
112.5	3	2
115.0	4	3
117.5	4	4
120.0	6	5
122.5	6	6
125.0	7	7
127.5	8	8
130.0	8	8
132.5	8	8
135.0	7	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

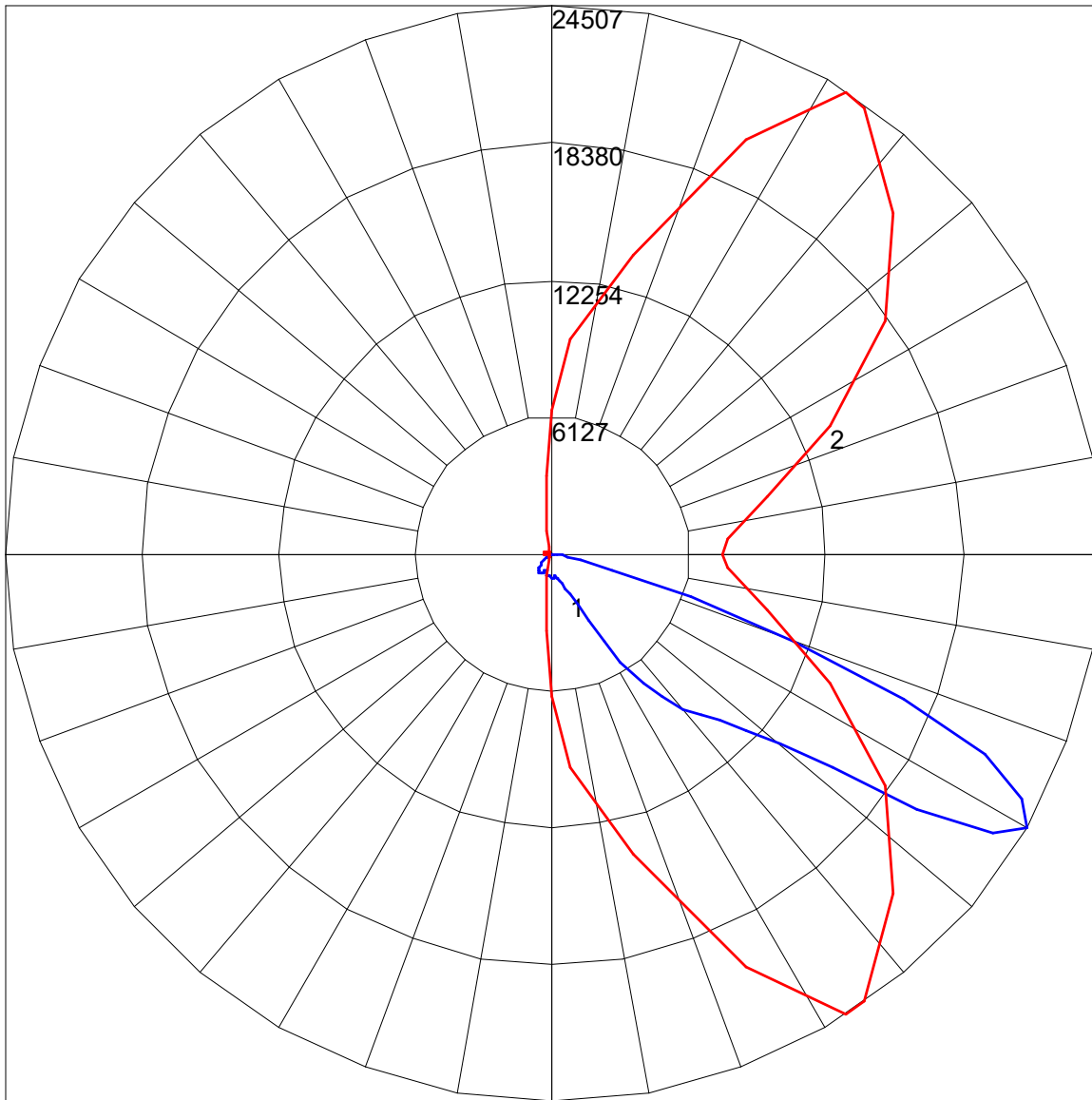
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

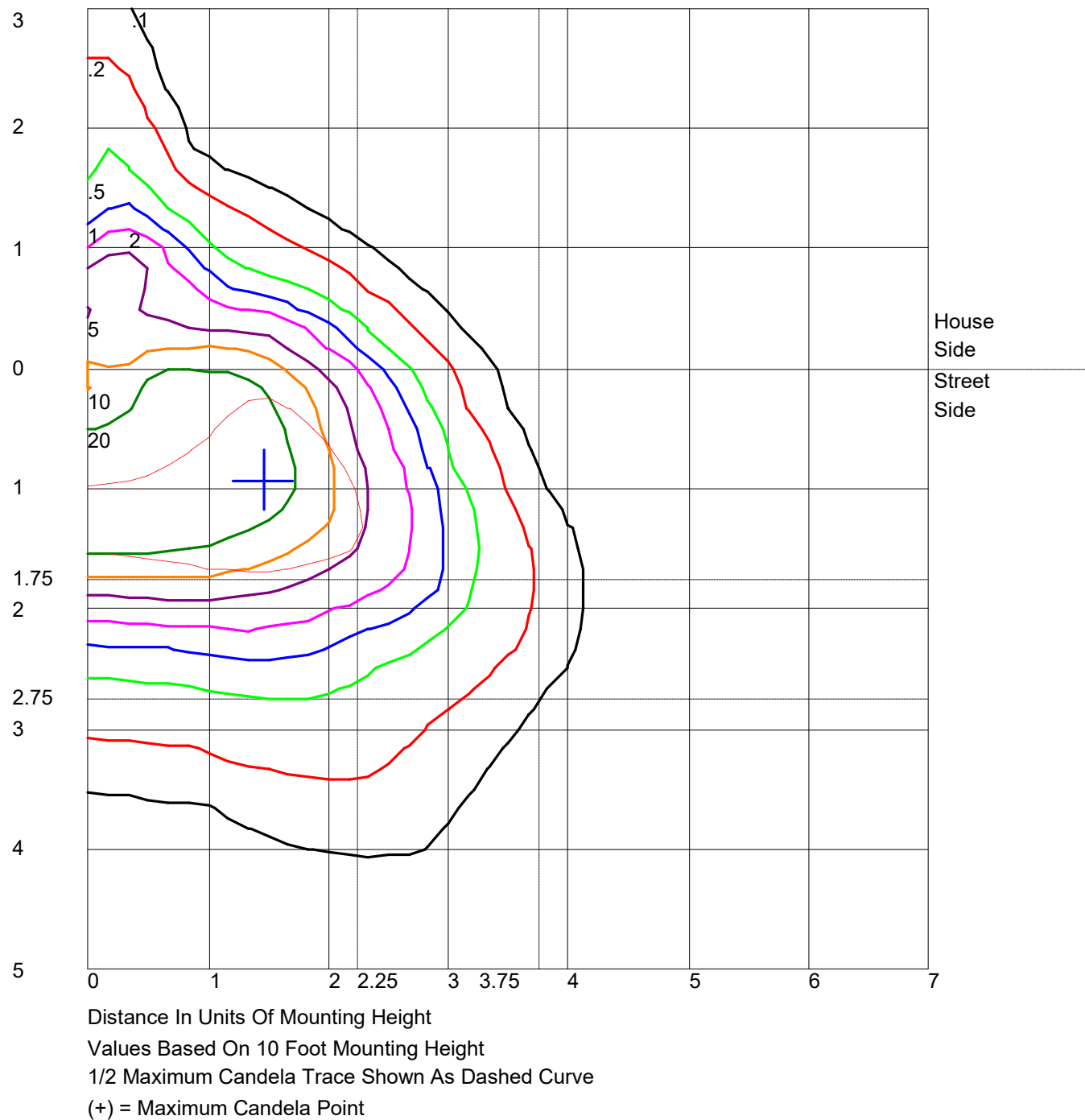
	Lumens	Percent Of Luminaire
Downward Street Side	20046.9	89.6
Downward House Side	2257.0	10.1
Downward Total	22303.9	99.7
Upward Street Side	25.5	0.1
Upward House Side	36.5	0.2
Upward Total	62.0	0.3
Total Flux	22365.9	100.0

POLAR GRAPH

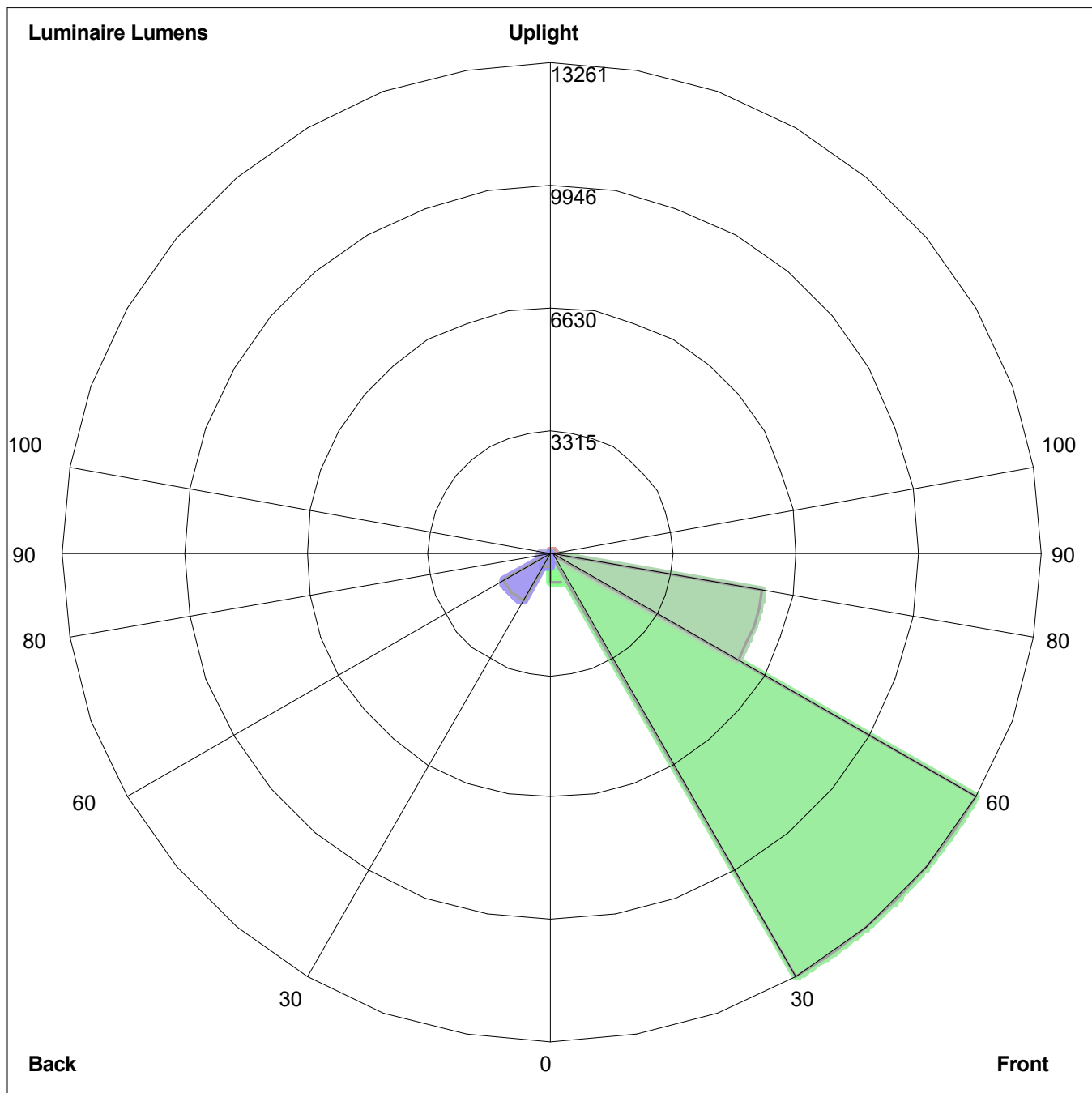


Maximum Candela = 24507 Located At Horizontal Angle = 57.5, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (57.5 - 237.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=830.4, Medium=13260.9, High=5816.8, Very High=138.8
Back: Low=402.9, Medium=1521.7, High=299.3, Very High=33.0
Uplight: Low=15.3, High=46.8

BUG Rating : B2-U2-G3