



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-FT-LED-05L-50-IL.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11762
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 06/10/2020
[TEST DATE] 04/27/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] ENM4-PT-FT-LED-05L-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
[FACTORED] SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3996
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	39
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2828
Maximum Candela Angle	40H 65V
Maximum Candela (<90 Degrees Vertical)	2828
Maximum Candela Angle (<90 Degrees Vertical)	40H 65V
Maximum Candela At 90 Degrees Vertical	12 (0.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	353 (8.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	223.6	N.A.	5.6
FM - Front-Medium (30-60)	1818.4	N.A.	45.5
FH - Front-High (60-80)	1318.4	N.A.	33.0
FVH - Front-Very High (80-90)	48.1	N.A.	1.2
BL - Back-Low (0-30)	152.0	N.A.	3.8
BM - Back-Medium (30-60)	358.2	N.A.	9.0
BH - Back-High (60-80)	62.7	N.A.	1.6
BVH - Back-Very High (80-90)	3.2	N.A.	0.1
UL - Uplight-Low (90-100)	2.9	N.A.	0.1
UH - Uplight-High (100-180)	8.9	N.A.	0.2
Total	3996.4	N.A.	100.0
BUG Rating	B1-U1-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	40	45	55	65	75
0.0	396	396	396	396	396	396	396	396	396	396
2.5	386	392	392	392	392	394	396	398	397	394
5.0	363	362	372	379	378	375	378	369	364	364
7.5	344	351	356	351	340	345	342	363	381	381
10.0	343	347	344	338	341	349	358	367	373	381
12.5	374	364	362	350	353	360	362	372	392	402
15.0	393	384	388	390	392	386	384	395	414	427
17.5	419	412	408	418	430	427	433	427	439	462
20.0	462	463	467	467	467	475	479	478	474	504
22.5	511	519	532	550	539	537	539	543	526	556
25.0	588	591	597	613	649	640	627	631	606	605
27.5	726	708	718	711	733	750	741	728	698	671
30.0	823	833	835	844	841	856	860	855	789	741
32.5	1042	998	976	969	986	985	987	984	893	828
35.0	1146	1157	1124	1133	1119	1133	1115	1111	1023	907
37.5	1320	1320	1267	1277	1288	1288	1254	1253	1141	1014
40.0	1431	1433	1439	1435	1437	1434	1416	1376	1279	1109
42.5	1518	1521	1541	1557	1588	1562	1555	1531	1413	1188
45.0	1608	1620	1631	1661	1732	1704	1710	1650	1533	1282
47.5	1714	1725	1736	1772	1851	1849	1855	1793	1662	1383
50.0	1814	1825	1846	1904	1987	2011	2027	1941	1804	1473
52.5	1898	1913	1946	2028	2143	2191	2189	2112	1932	1541
55.0	1970	1985	2030	2137	2304	2350	2341	2277	2016	1588
57.5	2035	2053	2125	2250	2459	2499	2512	2397	2060	1584
60.0	2089	2108	2201	2374	2588	2647	2643	2464	2062	1526
62.5	2100	2120	2258	2492	2706	2769	2736	2462	1992	1412
65.0	1938	1958	2160	2479	2759	2828	2768	2371	1835	1228
67.5	1635	1639	1891	2268	2626	2714	2644	2198	1593	1001
70.0	967	967	1299	1838	2269	2383	2305	1889	1280	707
72.5	388	422	597	1026	1624	1802	1833	1451	883	448
75.0	292	311	400	559	814	933	1084	924	546	294
77.5	237	251	330	437	503	518	524	516	349	210
80.0	189	204	276	347	353	336	311	252	220	140
82.5	141	154	201	226	194	172	142	107	109	92
85.0	79	84	103	102	74	70	58	48	51	52
87.5	28	29	35	34	24	22	17	16	16	20
90.0	9	9	12	9	7	6	4	3	2	2
92.5	4	4	3	2	2	2	2	2	2	2
95.0	1	1	1	1	2	2	2	2	2	2
97.5	1	1	1	1	2	2	2	2	2	2
100.0	1	1	1	1	1	2	2	2	2	2
102.5	1	1	1	1	1	2	2	2	2	2
105.0	1	1	1	1	1	1	2	2	2	2
107.5	1	1	1	1	1	2	2	2	2	2
110.0	1	1	1	1	1	2	2	2	2	2
112.5	1	1	1	1	2	2	2	2	2	2
115.0	1	1	1	1	2	2	2	2	2	2
117.5	1	1	1	1	2	2	2	2	2	2
120.0	2	2	2	2	2	2	2	2	2	2
122.5	2	2	2	2	2	2	2	2	2	2
125.0	2	2	2	2	2	2	2	2	2	2
127.5	2	2	2	2	2	2	2	2	2	2
130.0	2	2	2	2	2	2	2	2	2	2

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CANDELA TABULATION - (Cont.)

132.5	2	2	2	2	2	2	2	2	2	2
135.0	2	2	2	2	2	2	2	2	2	2
137.5	1	1	1	1	2	2	2	2	2	2
140.0	0	0	1	1	1	1	1	1	1	1
142.5	0	0	1	1	1	1	1	1	1	1
145.0	0	0	1	1	1	1	1	1	1	1
147.5	0	0	1	1	1	1	1	1	1	1
150.0	0	0	1	1	1	1	1	1	1	1
152.5	0	0	1	1	1	1	1	1	1	1
155.0	0	0	1	1	1	1	1	1	1	1
157.5	0	0	1	1	1	1	1	1	1	1
160.0	0	0	1	1	1	1	1	1	1	1
162.5	0	0	1	1	1	1	1	1	1	1
165.0	0	0	1	1	1	1	1	1	1	1
167.5	0	0	1	1	1	1	1	1	1	1
170.0	0	0	1	1	1	1	1	1	1	1
172.5	0	0	1	1	1	1	1	1	1	1
175.0	0	0	1	1	1	1	1	1	1	1
177.5	0	0	1	1	1	1	1	1	1	1
180.0	1	1	1	1	1	1	1	1	1	1

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	396	396	396	396	396	396	396	396	396	396
2.5	396	399	395	394	396	396	398	400	394	385
5.0	366	371	365	375	377	381	384	387	384	375
7.5	378	385	386	396	384	364	349	358	354	367
10.0	386	377	382	387	373	370	358	357	344	358
12.5	399	407	416	410	387	363	363	376	364	363
15.0	441	434	437	417	387	394	390	365	339	307
17.5	460	462	456	449	411	407	387	328	273	242
20.0	515	505	501	452	427	416	339	272	231	218
22.5	560	553	548	500	453	394	293	241	222	217
25.0	619	610	599	535	478	362	262	232	224	225
27.5	671	661	640	583	491	327	256	237	241	250
30.0	716	717	682	604	473	320	262	248	264	276
32.5	782	752	706	615	452	321	270	261	286	322
35.0	835	817	744	622	424	326	278	271	312	358
37.5	911	867	797	607	407	327	278	278	330	375
40.0	960	894	813	591	395	325	274	276	330	340
42.5	1007	916	818	572	378	318	262	258	290	258
45.0	1058	947	839	546	359	303	241	216	215	180
47.5	1107	968	849	519	338	275	206	168	148	128
50.0	1144	974	838	499	310	237	168	127	103	93
52.5	1166	976	825	482	269	188	125	92	74	70
55.0	1171	968	806	456	218	133	85	64	54	52
57.5	1147	937	772	417	162	87	60	45	39	39
60.0	1078	878	707	353	113	65	46	34	27	27
62.5	962	773	610	284	82	52	37	25	20	20
65.0	810	630	477	208	65	43	29	19	15	14
67.5	610	466	313	129	52	35	23	16	10	9
70.0	401	307	185	75	40	27	18	13	8	7
72.5	237	175	113	49	27	19	14	10	6	5
75.0	169	119	77	35	20	15	12	7	4	2
77.5	118	83	53	26	16	12	9	4	2	1

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CANDELA TABULATION - (Cont.)

80.0	72	53	38	19	13	9	7	3	1	1
82.5	48	37	26	14	9	8	6	3	1	1
85.0	32	22	15	8	7	7	5	3	1	1
87.5	15	9	6	5	6	5	4	2	1	1
90.0	3	2	3	5	5	5	4	2	1	1
92.5	2	2	4	5	6	5	4	3	1	1
95.0	2	2	3	5	5	5	4	3	1	1
97.5	2	2	3	4	5	4	4	3	2	1
100.0	2	2	2	3	4	4	3	2	2	1
102.5	2	2	2	2	3	3	3	2	2	1
105.0	2	2	2	2	3	3	3	2	2	1
107.5	2	2	2	2	2	3	2	2	2	2
110.0	2	2	2	2	2	2	2	2	2	2
112.5	2	2	2	2	2	2	2	2	2	2
115.0	2	2	2	2	3	3	3	2	2	2
117.5	2	2	2	2	3	3	3	3	2	2
120.0	2	2	2	2	3	3	3	3	2	2
122.5	2	2	2	3	3	3	3	3	3	2
125.0	2	2	3	3	3	3	3	3	3	2
127.5	2	3	3	3	3	3	3	3	3	2
130.0	3	3	3	3	3	3	3	3	3	2
132.5	3	3	3	3	3	3	3	3	3	2
135.0	2	2	3	3	3	3	3	2	2	2
137.5	2	2	2	2	2	2	2	2	1	1
140.0	2	2	2	2	2	2	2	1	1	1
142.5	1	1	2	2	2	1	1	1	1	1
145.0	1	1	1	2	2	1	1	1	1	0
147.5	1	1	1	1	1	1	1	1	1	0
150.0	1	1	1	1	1	1	1	1	1	0
152.5	1	1	1	1	1	1	1	1	1	0
155.0	1	1	1	1	1	1	1	1	1	0
157.5	1	1	1	1	1	1	1	1	0	0
160.0	1	1	1	1	1	1	1	1	0	0
162.5	1	1	1	1	1	1	1	1	0	0
165.0	1	1	1	1	1	1	1	0	0	0
167.5	1	1	1	1	1	1	1	0	0	0
170.0	1	1	1	1	1	1	1	0	0	0
172.5	1	1	1	1	1	1	1	0	0	0
175.0	1	1	1	1	1	1	1	0	0	0
177.5	1	1	1	1	1	1	1	0	0	0
180.0	1	1	1	1	1	1	1	1	1	1

Vert. Horizontal Angles
Angles

	175	180
0.0	396	396
2.5	388	388
5.0	371	373
7.5	367	363
10.0	370	363
12.5	365	361
15.0	312	311
17.5	237	237
20.0	221	223
22.5	221	225
25.0	239	246

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

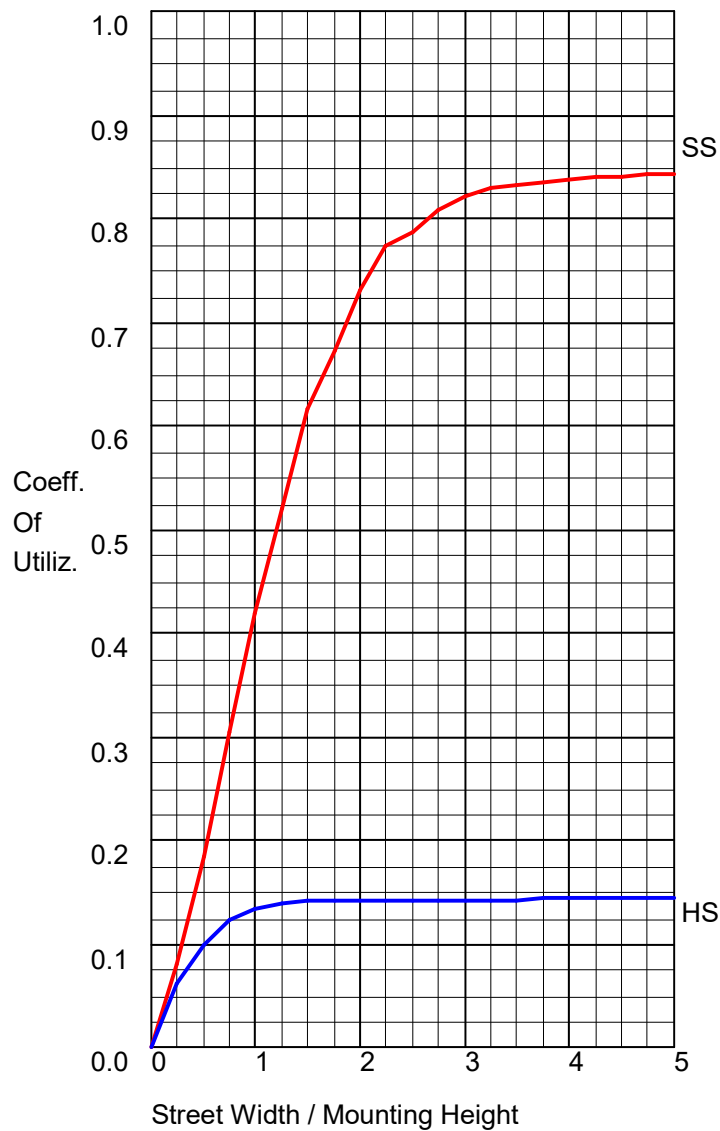
27.5	267	275
30.0	299	302
32.5	351	352
35.0	373	376
37.5	367	361
40.0	304	295
42.5	225	220
45.0	169	166
47.5	128	129
50.0	98	99
52.5	75	75
55.0	58	58
57.5	44	45
60.0	34	35
62.5	26	26
65.0	19	20
67.5	14	15
70.0	9	10
72.5	5	6
75.0	2	2
77.5	1	1
80.0	0	0
82.5	0	0
85.0	0	0
87.5	0	0
90.0	0	0
92.5	0	0
95.0	1	0
97.5	1	1
100.0	1	1
102.5	1	1
105.0	1	1
107.5	1	1
110.0	1	1
112.5	1	1
115.0	2	2
117.5	2	2
120.0	2	2
122.5	2	2
125.0	2	2
127.5	2	2
130.0	2	2
132.5	2	2
135.0	2	2
137.5	1	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

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	1	1

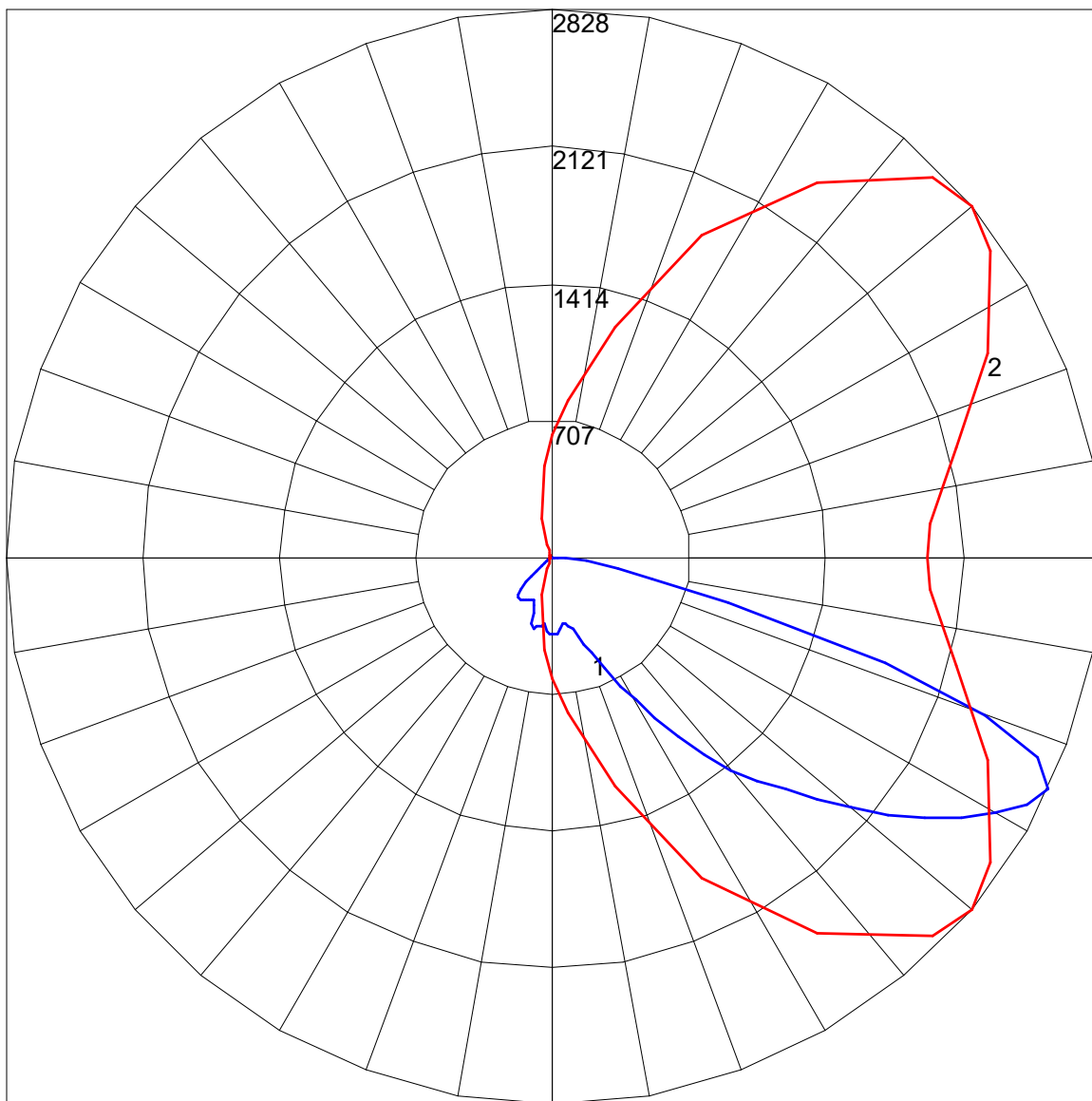
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

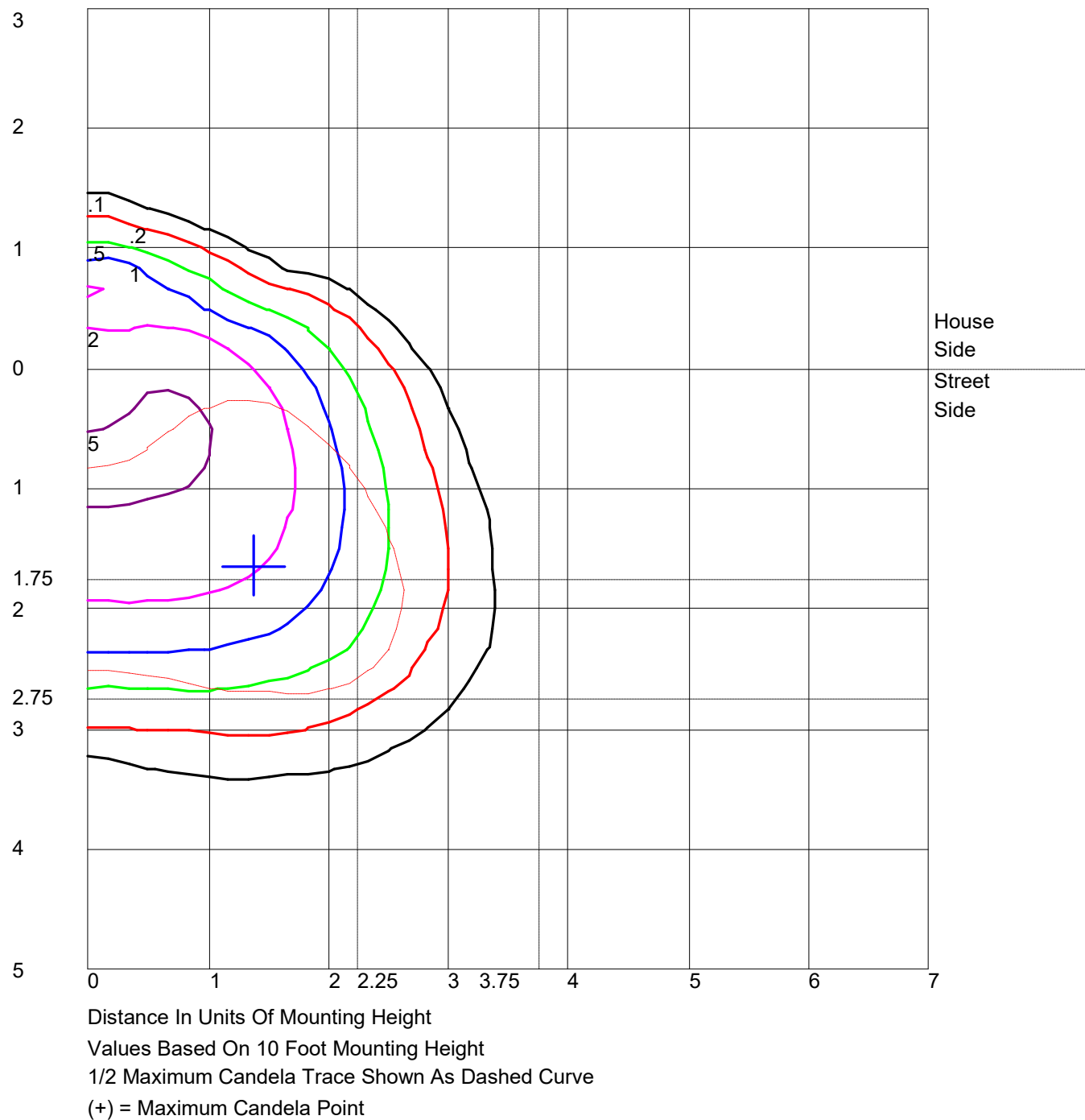
	Lumens	Percent Of Luminaire
Downward Street Side	3408.5	85.3
Downward House Side	576.1	14.4
Downward Total	3984.6	99.7
Upward Street Side	5.2	0.1
Upward House Side	6.5	0.2
Upward Total	11.7	0.3
Total Flux	3996.3	100.0

POLAR GRAPH

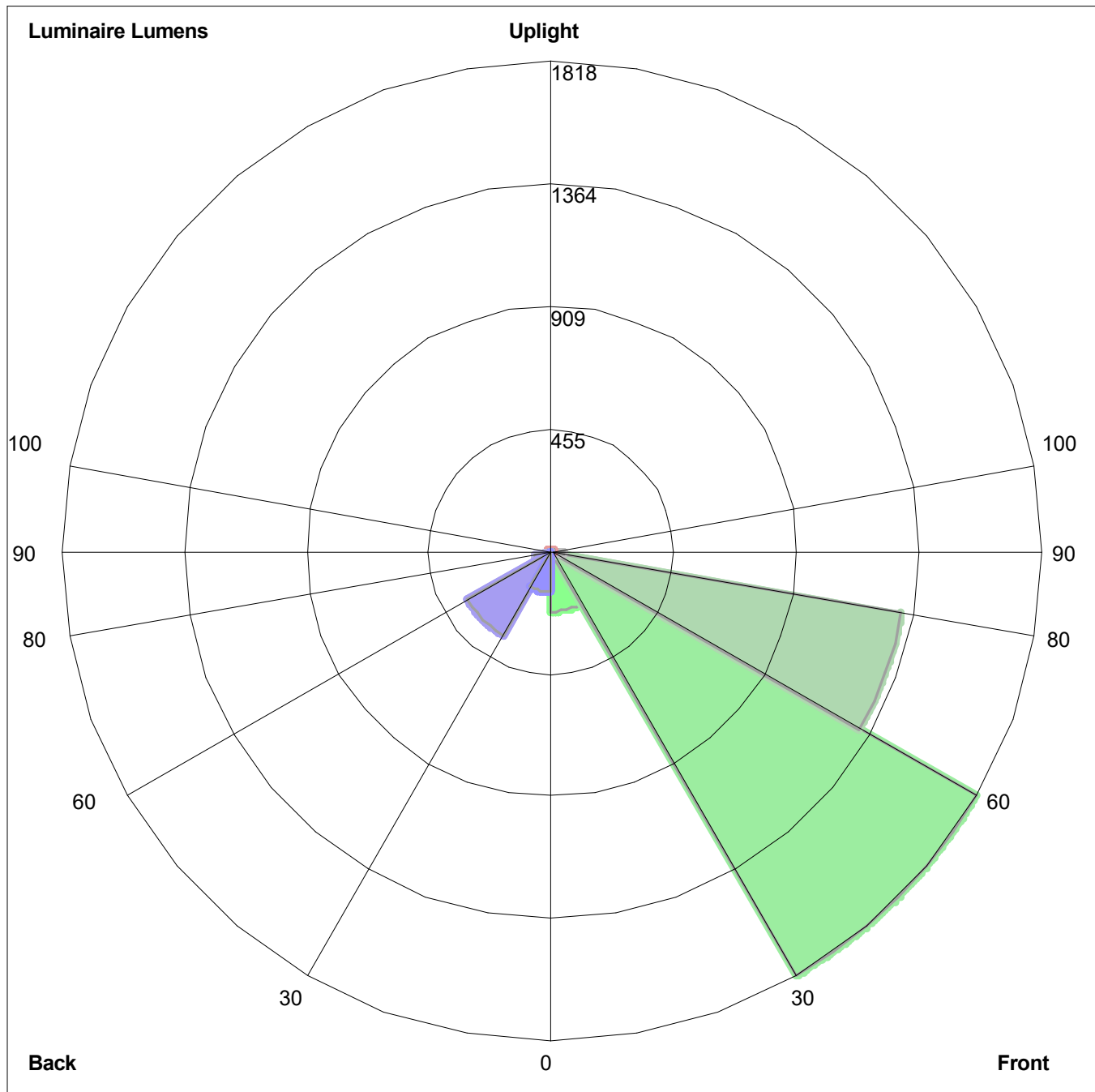


Maximum Candela = 2828 Located At Horizontal Angle = 40, Vertical Angle = 65
1 - Vertical Plane Through Horizontal Angles (40 - 220) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=223.6, Medium=1818.4, High=1318.4, Very High=48.1
Back: Low=152.0, Medium=358.2, High=62.7, Very High=3.2
Uplight: Low=2.9, High=8.9

BUG Rating : B1-U1-G1