



IES ROAD REPORT

PHOTOMETRIC FILENAME : ENM4-PT-5W-LED-05L-40.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11765

[TESTLAB] LSI INDUSTRIES, INC.

[ISSUE DATE] 06/10/2020

[TEST DATE] 04/27/20

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] ENM4-PT-5W-LED-05L-40

[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 VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5078
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	39.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2677
Maximum Candela Angle	45H 72.5V
Maximum Candela (<90 Degrees Vertical)	2677
Maximum Candela Angle (<90 Degrees Vertical)	45H 72.5V
Maximum Candela At 90 Degrees Vertical	5 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	408 (8.0% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	159.5	N.A.	3.1
FM - Front-Medium (30-60)	1060.2	N.A.	20.9
FH - Front-High (60-80)	1288.2	N.A.	25.4
FVH - Front-Very High (80-90)	26.9	N.A.	0.5
BL - Back-Low (0-30)	159.5	N.A.	3.1
BM - Back-Medium (30-60)	1060.2	N.A.	20.9
BH - Back-High (60-80)	1288.2	N.A.	25.4
BVH - Back-Very High (80-90)	26.9	N.A.	0.5
UL - Uplight-Low (90-100)	3.1	N.A.	0.1
UH - Uplight-High (100-180)	5.6	N.A.	0.1
Total	5078.3	N.A.	100.0
BUG Rating	B3-U1-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>15</u>	<u>25</u>	<u>35</u>	<u>45</u>	<u>55</u>	<u>65</u>	<u>75</u>	<u>85</u>
0.0	282	282	282	282	282	282	282	282	282	282
2.5	277	277	280	283	284	283	282	282	282	281
5.0	256	259	265	270	273	267	266	266	263	261
7.5	258	257	262	254	258	251	257	271	278	267
10.0	254	259	258	247	257	260	267	271	281	271
12.5	285	285	279	269	275	267	275	282	294	297
15.0	302	307	295	303	303	296	293	297	311	314
17.5	319	330	318	322	329	334	324	319	335	340
20.0	355	362	354	351	358	360	366	342	356	369
22.5	386	382	388	387	394	400	407	386	393	408
25.0	421	415	423	430	433	437	454	448	415	441
27.5	461	470	478	477	480	493	502	506	466	486
30.0	506	502	504	521	537	559	563	569	518	536
32.5	566	577	565	574	599	624	639	637	579	565
35.0	620	619	624	634	654	706	709	697	663	621
37.5	693	697	687	690	740	772	782	770	726	674
40.0	730	740	749	763	811	846	851	846	799	710
42.5	765	776	784	822	880	908	925	897	849	743
45.0	806	818	830	866	936	979	980	945	896	781
47.5	848	861	872	905	987	1033	1032	996	943	826
50.0	893	906	916	959	1040	1093	1089	1048	989	869
52.5	947	962	971	1021	1103	1157	1150	1105	1047	925
55.0	1000	1020	1034	1086	1172	1228	1215	1169	1113	982
57.5	1072	1098	1112	1157	1253	1316	1297	1245	1190	1052
60.0	1166	1194	1220	1258	1363	1432	1407	1349	1281	1145
62.5	1285	1303	1345	1398	1522	1606	1566	1482	1397	1253
65.0	1378	1396	1448	1549	1734	1850	1783	1648	1550	1379
67.5	1423	1450	1530	1692	1994	2192	2070	1870	1718	1504
70.0	1213	1247	1394	1676	2269	2645	2360	1939	1606	1334
72.5	783	808	961	1261	1979	2677	2184	1539	1133	904
75.0	262	263	369	668	1330	1989	1483	914	579	399
77.5	126	124	155	243	574	1072	760	375	223	170
80.0	53	53	67	110	223	408	293	163	101	84
82.5	29	29	31	47	89	152	100	65	50	49
85.0	18	17	18	24	39	57	41	33	27	30
87.5	9	9	9	11	16	19	15	14	12	11
90.0	3	3	4	4	5	5	4	4	3	2
92.5	2	2	3	3	4	4	4	4	3	2
95.0	2	2	3	3	3	4	4	3	3	2
97.5	2	2	2	2	3	3	3	3	2	1
100.0	2	2	2	2	2	3	3	2	2	1
102.5	1	1	2	2	2	2	2	2	2	1
105.0	1	1	1	2	1	2	2	2	1	1
107.5	1	1	1	2	1	2	2	2	1	1
110.0	1	1	1	2	1	1	1	1	1	1
112.5	1	1	1	1	1	1	1	1	1	1
115.0	1	1	2	2	2	2	1	1	1	1
117.5	1	1	2	2	2	2	2	2	2	1
120.0	1	1	2	2	2	2	2	2	2	1
122.5	2	2	2	2	2	2	2	2	2	2
125.0	1	1	2	2	2	2	2	2	2	2
127.5	2	1	2	2	2	2	2	2	2	2
130.0	1	1	2	2	2	2	1	1	1	1

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CANDELA TABULATION - (Cont.)

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

Vert. Horizontal Angles

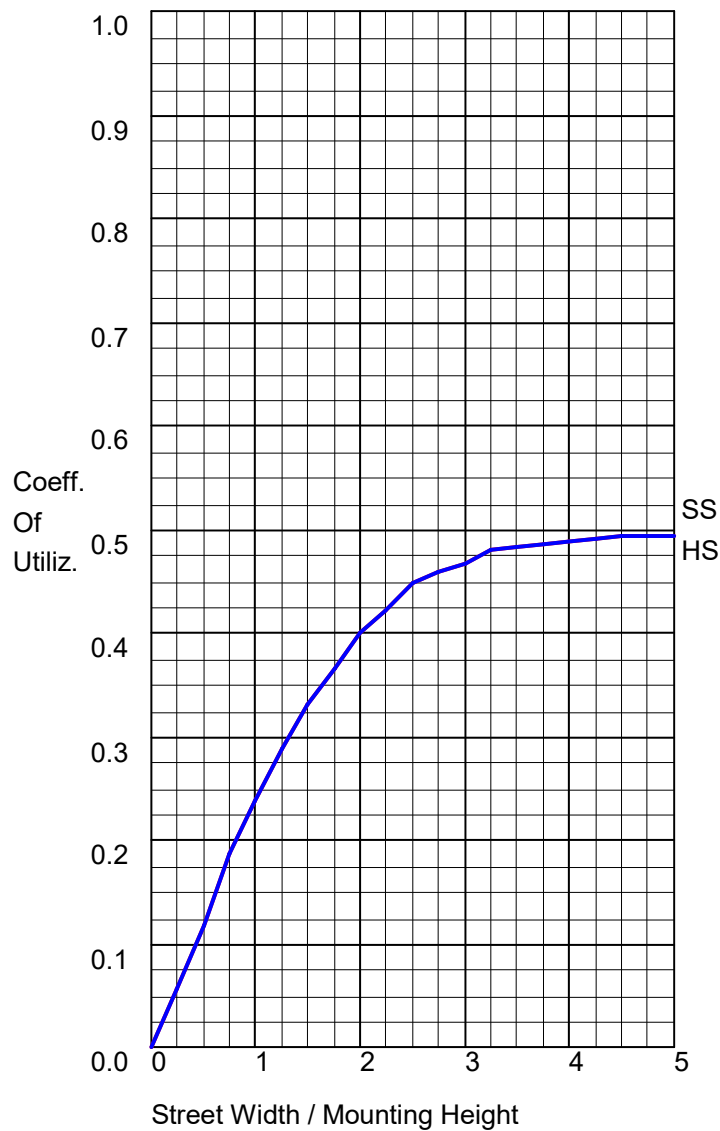
	90
0.0	282
2.5	282
5.0	260
7.5	271
10.0	273
12.5	293
15.0	320
17.5	338
20.0	373
22.5	398
25.0	449
27.5	478
30.0	523
32.5	571
35.0	612
37.5	674
40.0	715
42.5	753
45.0	792
47.5	826
50.0	869
52.5	927
55.0	977
57.5	1045
60.0	1126
62.5	1226
65.0	1343
67.5	1458
70.0	1295
72.5	861
75.0	376
77.5	163

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CANDELA TABULATION - (Cont.)

80.0	82
82.5	47
85.0	26
87.5	10
90.0	1
92.5	1
95.0	2
97.5	1
100.0	1
102.5	1
105.0	1
107.5	1
110.0	1
112.5	1
115.0	1
117.5	1
120.0	1
122.5	2
125.0	2
127.5	1
130.0	1
132.5	2
135.0	1
137.5	1
140.0	0
142.5	0
145.0	0
147.5	0
150.0	0
152.5	0
155.0	0
157.5	0
160.0	0
162.5	0
165.0	0
167.5	0
170.0	0
172.5	0
175.0	0
177.5	0
180.0	0

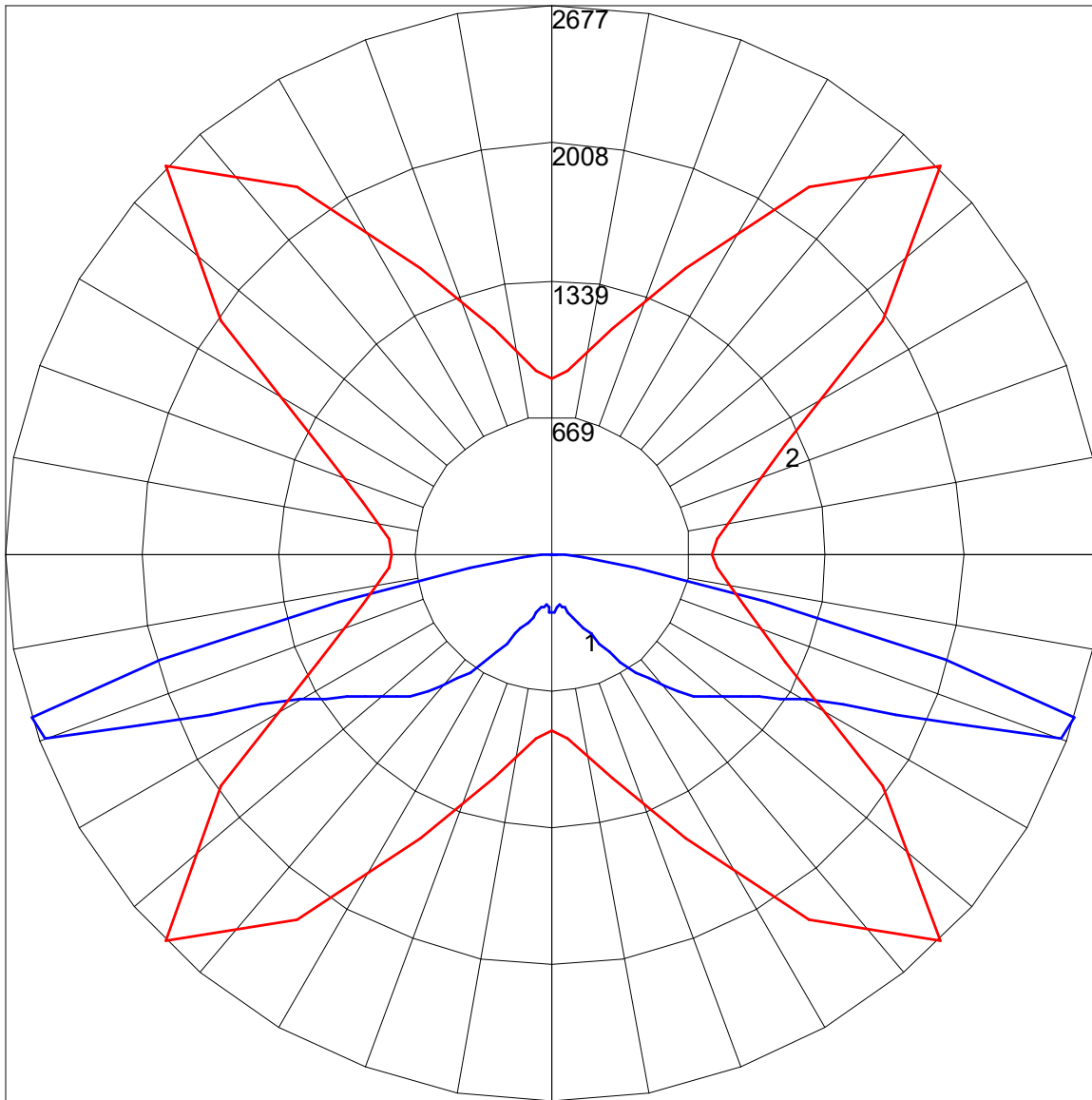
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

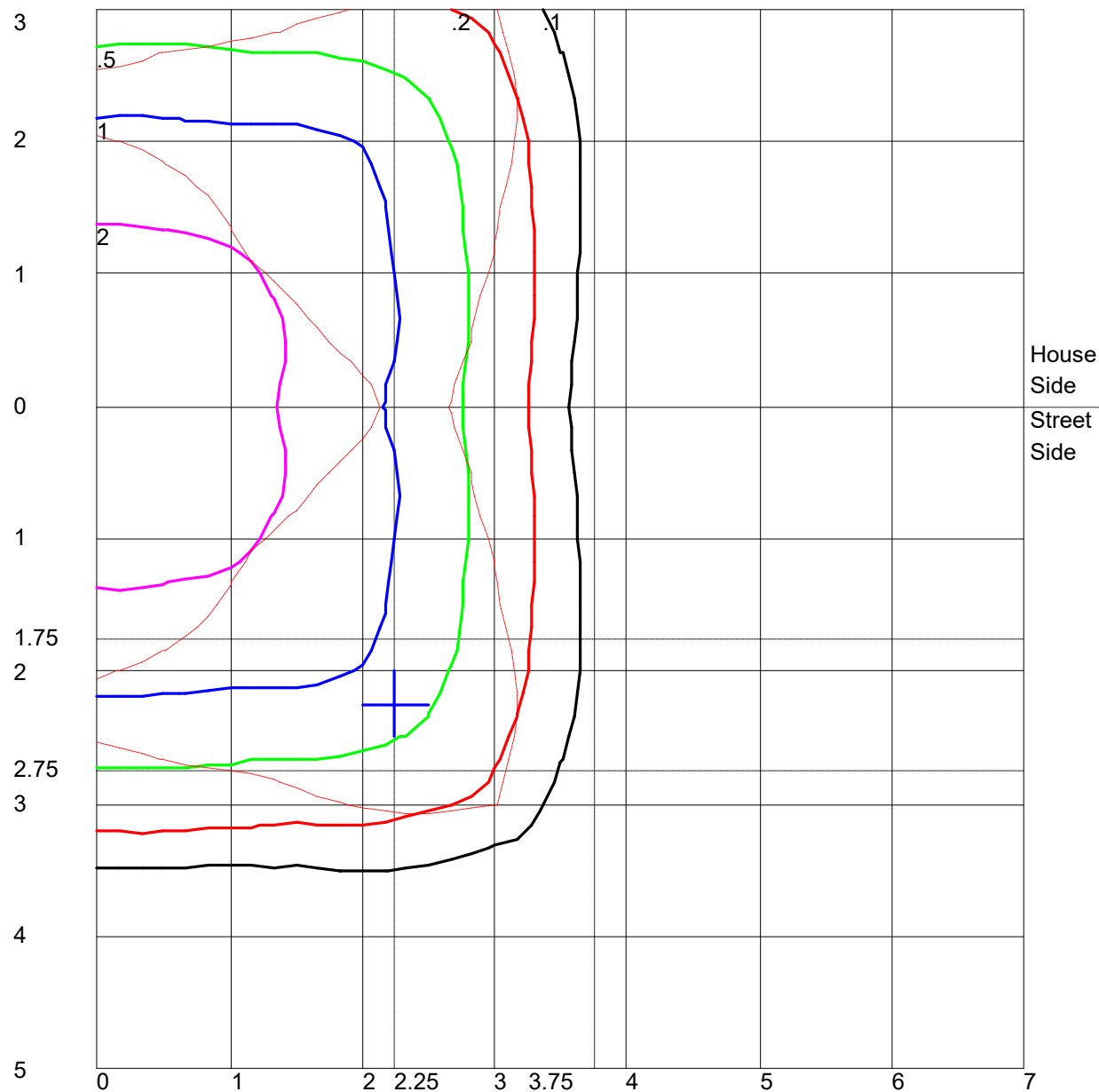
	Lumens	Percent Of Luminaire
Downward Street Side	2534.7	49.9
Downward House Side	2534.7	49.9
Downward Total	5069.4	99.8
Upward Street Side	4.4	0.1
Upward House Side	4.4	0.1
Upward Total	8.8	0.2
Total Flux	5078.2	100.0

POLAR GRAPH



Maximum Candela = 2677 Located At Horizontal Angle = 45, Vertical Angle = 72.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



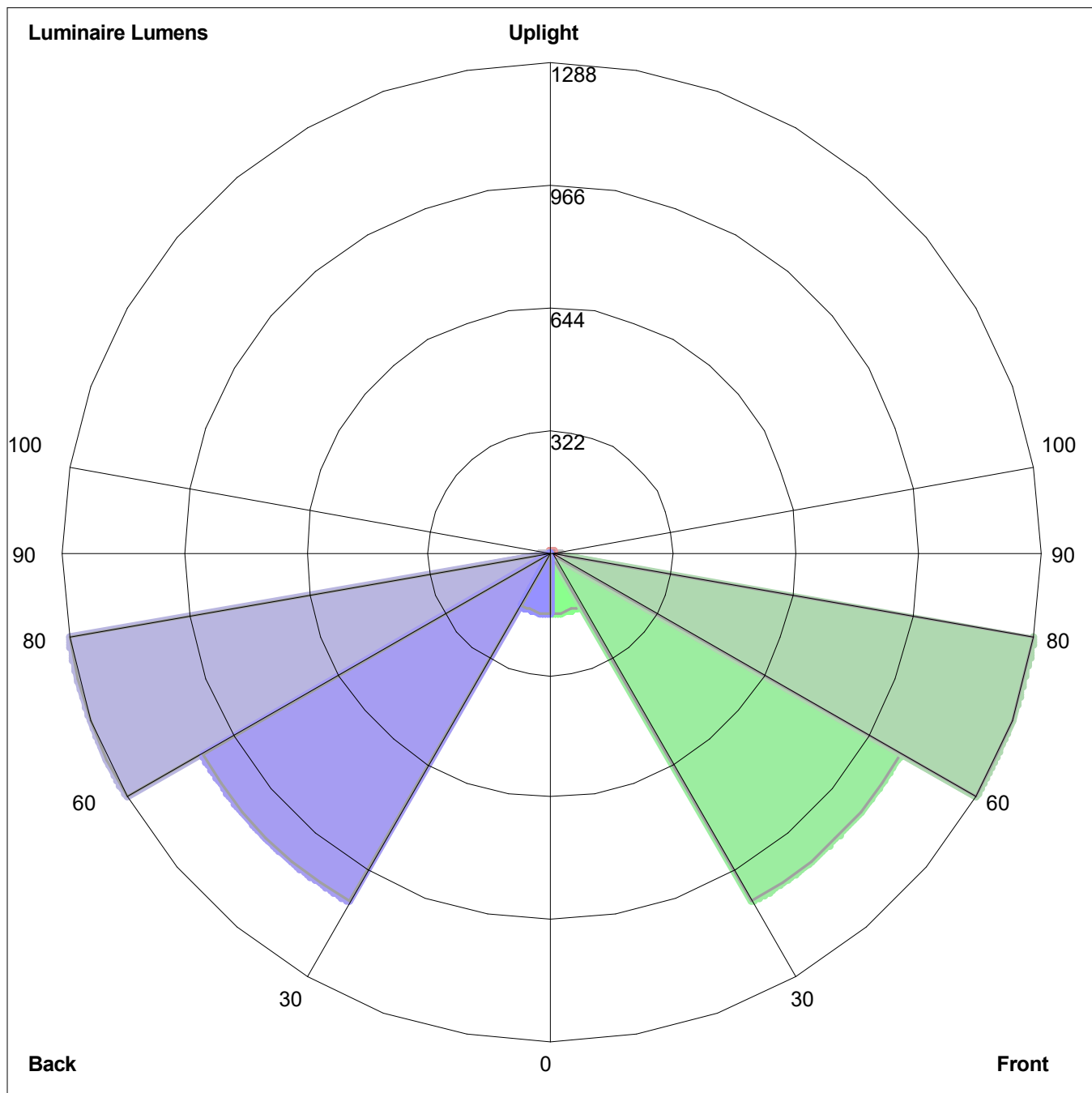
Distance In Units Of Mounting Height

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=159.5, Medium=1060.2, High=1288.2, Very High=26.9
Back: Low=159.5, Medium=1060.2, High=1288.2, Very High=26.9
Uplight: Low=3.1, High=5.6

BUG Rating : B3-U1-G1