



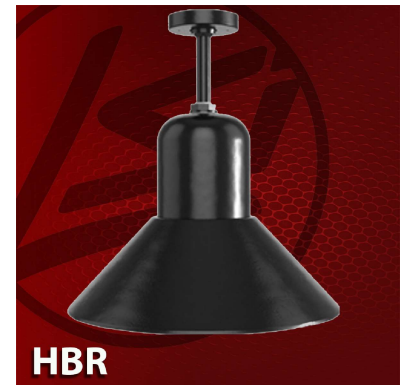
IES ROAD REPORT
PHOTOMETRIC FILENAME : HBR-12L-50-GWT.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-11927
[TESTLAB] LSI INDUSTRIES, INC.
[ISSUE DATE] 4/19/2021
[TEST DATE] 06/16/20
[MANUFACT] LSI INDUSTRIES, INC.
[LUMCAT] HBR-12L-50-GWT
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor
[SEARCH_APPLICATION] Outdoor
[SEARCH_COLORTEMP] 5000

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1144
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	123
Total Luminaire Watts	9.3
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	479
Maximum Candela Angle	90H 2.5V
Maximum Candela (<90 Degrees Vertical)	479
Maximum Candela Angle (<90 Degrees Vertical)	90H 2.5V
Maximum Candela At 90 Degrees Vertical	1 (0.1% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	10 (0.9% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)



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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	196.9	N.A.	17.2
FM - Front-Medium (30-60)	341.5	N.A.	29.9
FH - Front-High (60-80)	30.4	N.A.	2.7
FVH - Front-Very High (80-90)	3.1	N.A.	0.3
BL - Back-Low (0-30)	196.9	N.A.	17.2
BM - Back-Medium (30-60)	341.5	N.A.	29.9
BH - Back-High (60-80)	30.4	N.A.	2.7
BVH - Back-Very High (80-90)	3.1	N.A.	0.3
UL - Uplight-Low (90-100)	0.1	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	1143.9	N.A.	100.0
BUG Rating	B1-U1-G0		

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CANDELA TABULATION

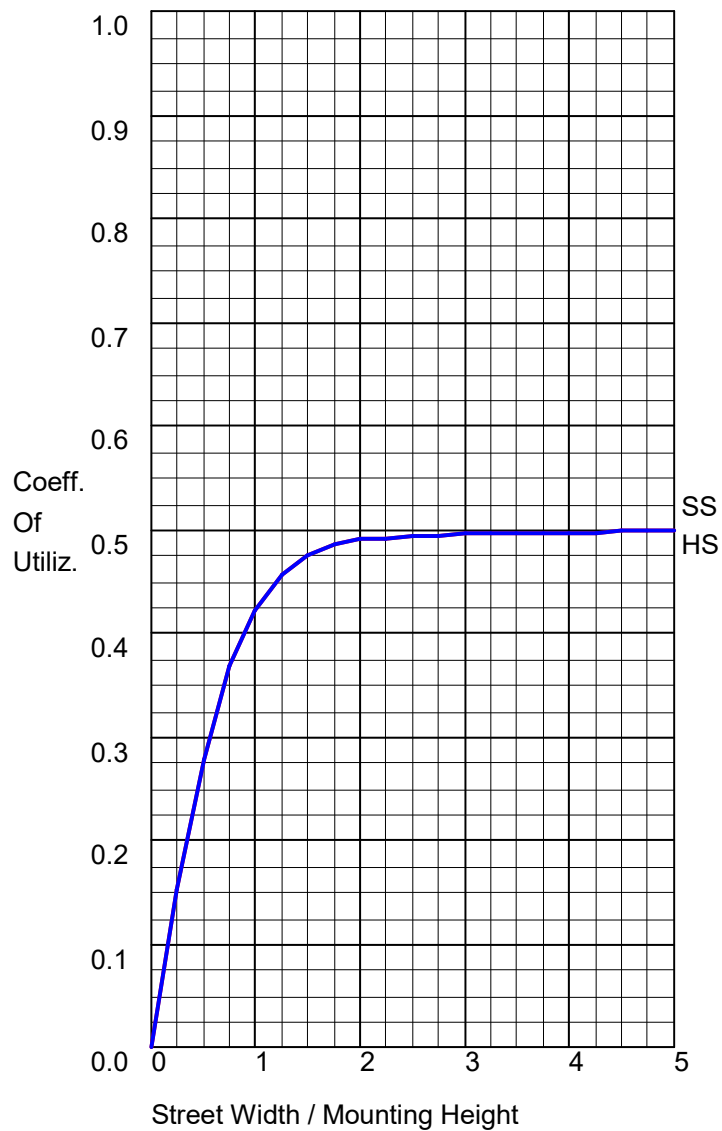
Vert. Angles	Horizontal Angles				
	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	478	478	478	478	478
2.5	479	478	479	478	479
5.0	478	478	478	478	478
7.5	478	479	478	478	478
10.0	478	478	478	478	478
12.5	477	477	476	476	476
15.0	476	476	475	475	475
17.5	474	474	473	473	473
20.0	472	471	471	470	470
22.5	470	469	468	467	467
25.0	468	467	466	465	466
27.5	462	462	459	458	458
30.0	440	440	439	438	439
32.5	409	409	409	409	410
35.0	389	389	388	388	389
37.5	372	372	370	369	370
40.0	355	354	352	351	353
42.5	336	336	333	331	332
45.0	317	317	314	311	312
47.5	298	298	294	290	293
50.0	278	278	274	270	273
52.5	258	258	253	249	253
55.0	237	236	231	228	232
57.5	201	202	197	195	199
60.0	113	115	117	116	119
62.5	49	49	50	50	51
65.0	35	35	35	35	36
67.5	25	25	25	25	25
70.0	22	22	22	22	22
72.5	19	19	19	19	19
75.0	16	17	16	16	16
77.5	13	13	13	13	13
80.0	10	10	10	10	10
82.5	8	8	8	8	8
85.0	6	6	6	6	6
87.5	4	4	4	3	3
90.0	0	1	1	1	1
92.5	0	0	0	0	0
95.0	0	0	0	0	0
97.5	0	0	0	0	0
100.0	0	0	0	0	0
102.5	0	0	0	0	0
105.0	0	0	0	0	0
107.5	0	0	0	0	0
110.0	0	0	0	0	0
112.5	0	0	0	0	0
115.0	0	0	0	0	0
117.5	0	0	0	0	0
120.0	0	0	0	0	0
122.5	0	0	0	0	0
125.0	0	0	0	0	0
127.5	0	0	0	0	0
130.0	0	0	0	0	0

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CANDELA TABULATION - (Cont.)

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

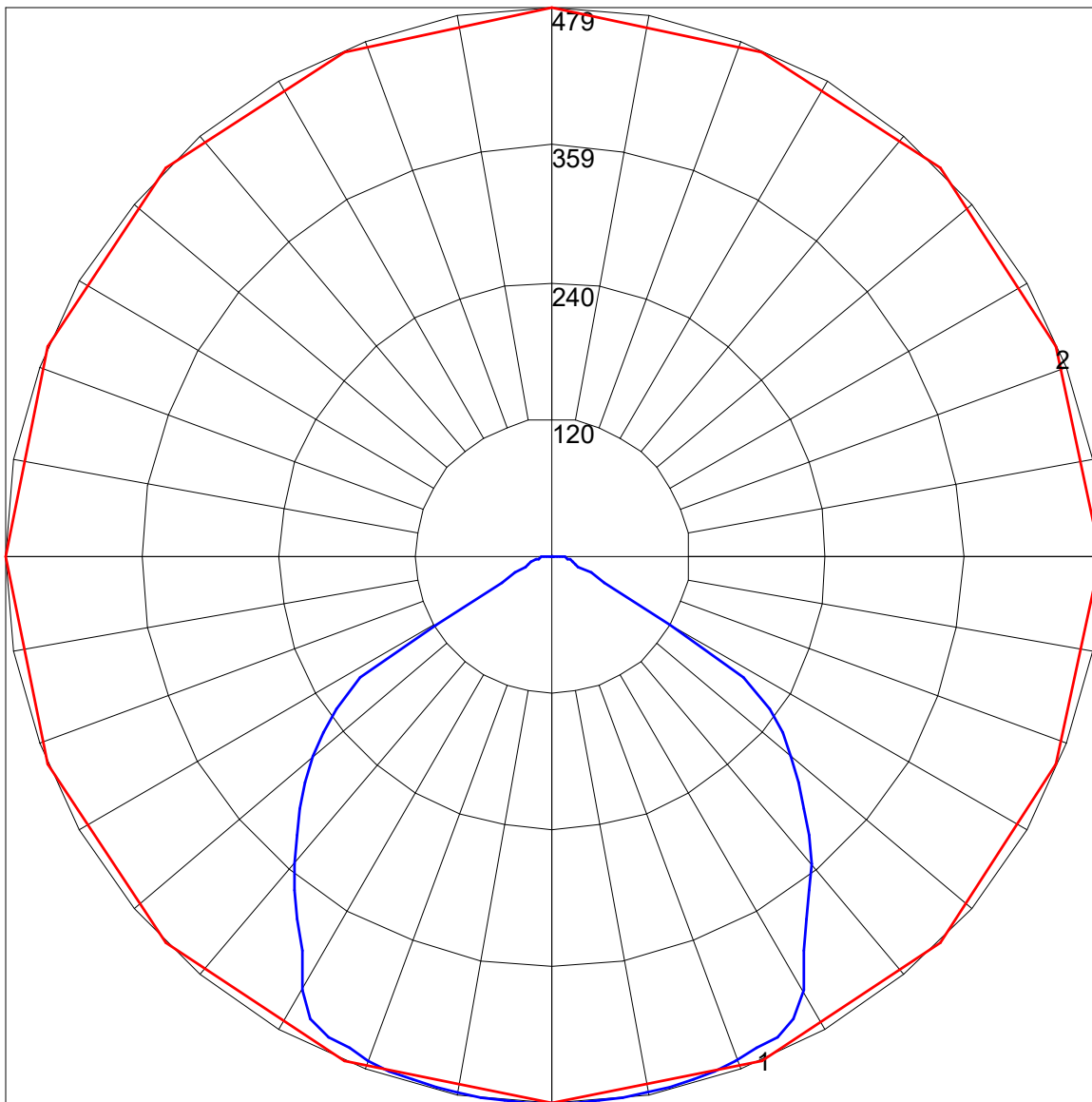
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

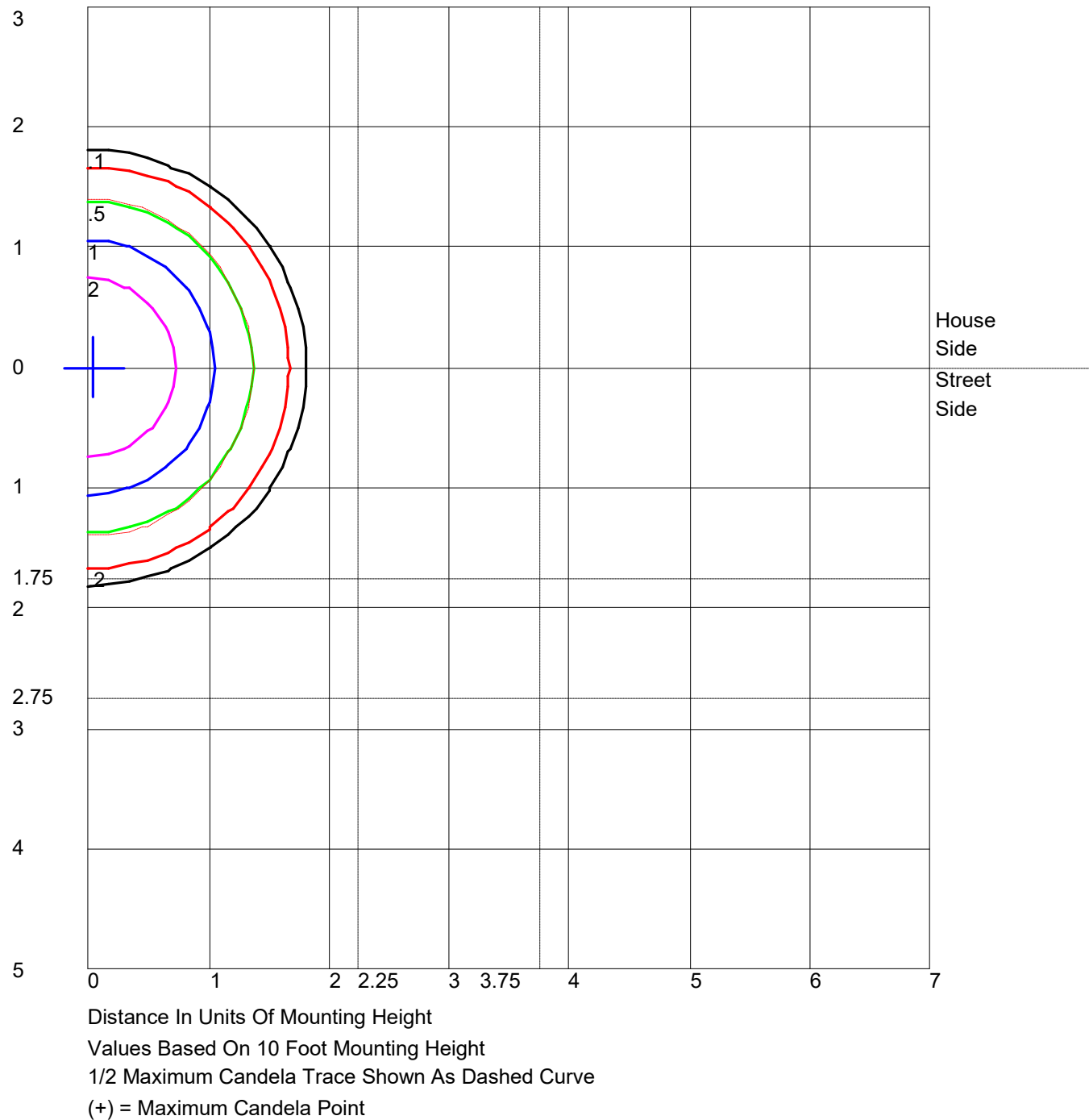
	Lumens	Percent Of Luminaire
Downward Street Side	572.0	50.0
Downward House Side	572.0	50.0
Downward Total	1144.0	100.0
Upward Street Side	0.1	0.0
Upward House Side	0.1	0.0
Upward Total	0.2	0.0
Total Flux	1144.2	100.0

POLAR GRAPH

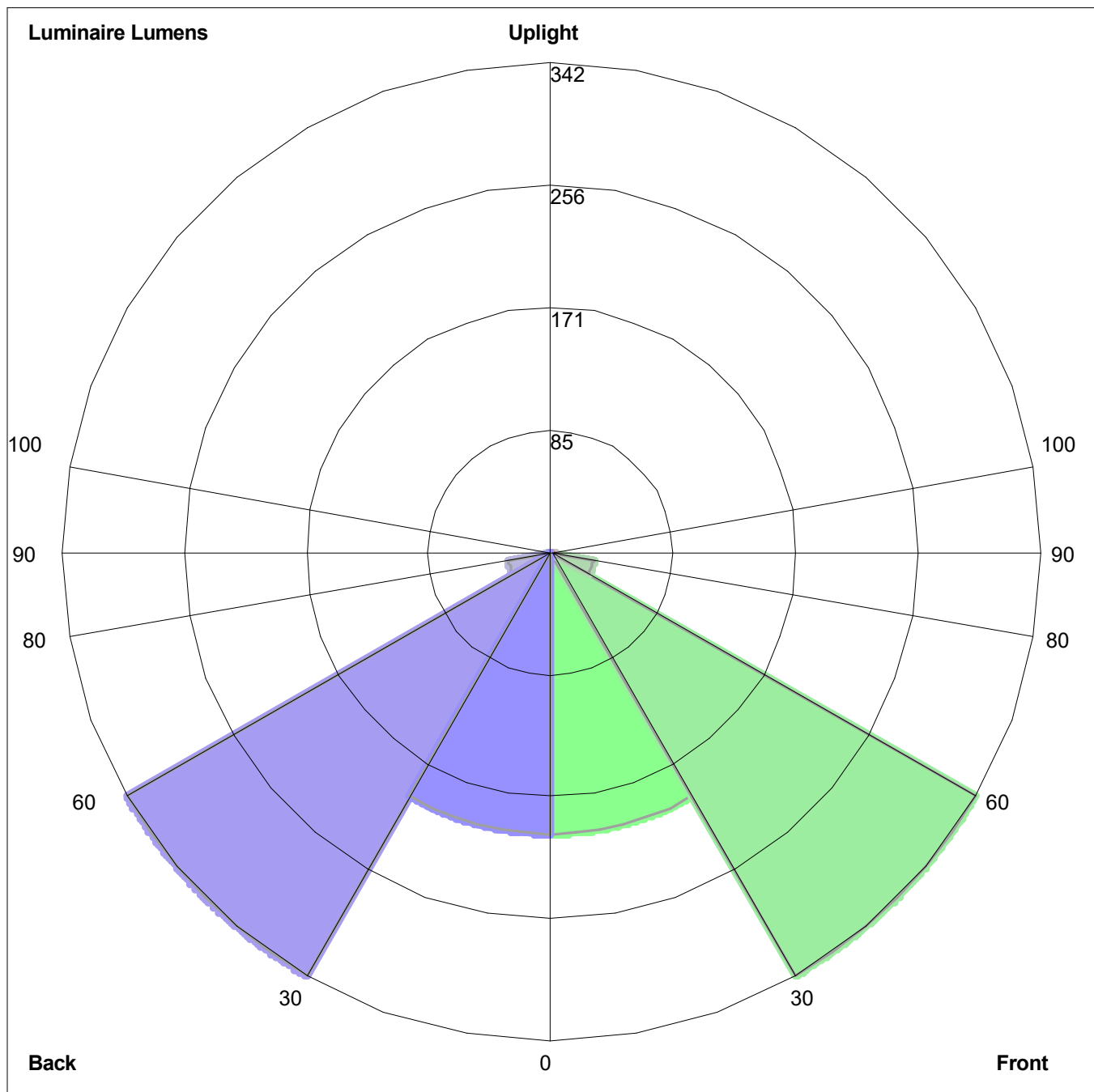


Maximum Candela = 479 Located At Horizontal Angle = 90, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=196.9, Medium=341.5, High=30.4, Very High=3.1
Back: Low=196.9, Medium=341.5, High=30.4, Very High=3.1
Uplight: Low=0.1, High=0.0

BUG Rating : B1-U1-G0