



IES ROAD REPORT
PHOTOMETRIC FILENAME : CBR7-LED-10L-PC-S-30.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9374_SCALED
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/09/2018
[TEST DATE]11/16/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]CBR7-LED-10L-PC-S-40
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[TEMP0][OTHER]TEST PROCEDURE: IESNA LM-79-08
[OTHER]SCALED FROM ORIGINAL TEST DATA

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1178
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	17.4
Ballast Factor	1.00
Upward Waste Light Ratio	0.08
Maximum Candela	443.44
Maximum Candela Angle	55H 40V
Maximum Candela (<90 Degrees Vertical)	443.44
Maximum Candela Angle (<90 Degrees Vertical)	55H 40V
Maximum Candela At 90 Degrees Vertical	26.68 (2.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	36.8 (3.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	70.5	N.A.	6.0
FM - Front-Medium (30-60)	392.8	N.A.	33.3
FH - Front-High (60-80)	62.2	N.A.	5.3
FVH - Front-Very High (80-90)	16.6	N.A.	1.4
BL - Back-Low (0-30)	70.5	N.A.	6.0
BM - Back-Medium (30-60)	392.8	N.A.	33.3
BH - Back-High (60-80)	62.2	N.A.	5.3
BVH - Back-Very High (80-90)	16.6	N.A.	1.4
UL - Uplight-Low (90-100)	21.2	N.A.	1.8
UH - Uplight-High (100-180)	72.9	N.A.	6.2
Total	1178.3	N.A.	100.0
BUG Rating	B1-U3-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	5	15	25	35	45	55	65	75	85
0.0	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
2.5	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
5.0	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
7.5	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
10.0	5.52	4.60	4.60	4.60	4.60	5.52	4.60	5.52	4.60	4.60
12.5	16.56	17.48	17.48	15.64	15.64	16.56	15.64	13.80	15.64	15.64
15.0	39.56	40.48	39.56	40.48	42.32	37.72	39.56	36.80	38.64	43.24
17.5	80.04	80.04	80.96	87.40	86.48	82.80	84.64	80.04	81.88	87.40
20.0	131.56	137.08	138.00	141.68	138.00	140.76	141.68	149.04	140.76	132.48
22.5	200.56	204.24	201.48	205.16	193.20	194.12	195.04	197.80	194.12	192.28
25.0	265.88	276.92	264.96	268.64	259.44	253.00	268.64	259.44	261.28	255.76
27.5	331.20	327.52	324.76	323.84	323.84	322.00	323.84	324.76	324.76	317.40
30.0	370.76	373.52	370.76	371.68	378.12	374.44	372.60	379.04	375.36	363.40
32.5	401.12	414.92	405.72	409.40	409.40	408.48	414.92	405.72	401.12	396.52
35.0	433.32	430.56	423.20	430.56	432.40	425.04	438.84	421.36	410.32	412.16
37.5	436.08	434.24	436.08	440.68	439.76	437.00	441.60	433.32	423.20	422.28
40.0	433.32	433.32	435.16	441.60	441.60	437.92	443.44	433.32	432.40	433.32
42.5	415.84	418.60	424.12	429.64	425.04	425.96	429.64	415.84	418.60	417.68
45.0	383.64	389.16	399.28	402.96	400.20	400.20	401.12	392.84	386.40	381.80
47.5	359.72	359.72	367.08	367.08	369.84	374.44	363.40	360.64	357.88	358.80
50.0	318.32	317.40	332.12	332.12	330.28	333.04	327.52	329.36	322.00	327.52
52.5	287.04	288.88	292.56	296.24	298.08	296.24	299.00	300.84	290.72	280.60
55.0	241.04	248.40	253.00	248.40	248.40	251.16	244.72	245.64	247.48	247.48
57.5	195.04	195.04	203.32	210.68	209.76	209.76	206.08	207.92	207.00	203.32
60.0	150.88	152.72	159.16	164.68	168.36	162.84	161.92	155.48	153.64	159.16
62.5	110.40	108.56	113.16	120.52	125.12	121.44	116.84	112.24	117.76	116.84
65.0	75.44	75.44	78.20	78.20	82.80	80.04	80.96	79.12	78.20	80.04
67.5	50.60	49.68	51.52	50.60	51.52	50.60	51.52	50.60	49.68	49.68
70.0	40.48	38.64	40.48	40.48	40.48	38.64	36.80	35.88	35.88	35.88
72.5	37.72	37.72	39.56	39.56	39.56	38.64	36.80	35.88	38.64	38.64
75.0	34.96	35.88	37.72	39.56	39.56	37.72	35.88	35.88	36.80	37.72
77.5	36.80	35.88	35.88	37.72	37.72	36.80	35.88	35.88	35.88	36.80
80.0	34.04	34.96	35.88	36.80	35.88	36.80	35.88	34.96	34.96	34.96
82.5	31.28	32.20	34.04	34.04	34.96	34.04	33.12	33.12	33.12	33.12
85.0	28.52	29.44	29.44	32.20	32.20	30.36	30.36	28.52	30.36	31.28
87.5	26.68	25.76	27.60	29.44	29.44	27.60	25.76	26.68	27.60	28.52
90.0	22.08	22.08	24.84	25.76	26.68	24.84	23.00	23.92	24.84	25.76
92.5	19.32	20.24	22.08	23.00	23.00	22.08	20.24	20.24	22.08	23.00
95.0	18.40	18.40	20.24	20.24	20.24	20.24	18.40	17.48	19.32	21.16
97.5	16.56	15.64	17.48	17.48	16.56	17.48	16.56	15.64	16.56	17.48
100.0	14.72	13.80	15.64	15.64	15.64	14.72	14.72	14.72	14.72	15.64
102.5	12.88	12.88	12.88	13.80	14.72	12.88	11.96	12.88	13.80	13.80
105.0	11.04	11.96	11.96	11.96	12.88	11.96	11.04	11.04	11.96	12.88
107.5	10.12	10.12	11.04	11.04	11.04	10.12	10.12	10.12	11.04	11.04
110.0	9.20	10.12	10.12	10.12	10.12	10.12	9.20	9.20	10.12	10.12
112.5	9.20	9.20	9.20	10.12	10.12	9.20	9.20	9.20	9.20	10.12
115.0	9.20	9.20	10.12	10.12	10.12	10.12	9.20	9.20	10.12	10.12
117.5	9.20	9.20	10.12	10.12	10.12	9.20	9.20	9.20	9.20	10.12
120.0	9.20	9.20	9.20	10.12	10.12	9.20	9.20	9.20	9.20	9.20
122.5	9.20	9.20	9.20	9.20	10.12	9.20	9.20	9.20	9.20	10.12
125.0	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20
127.5	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20
130.0	9.20	9.20	9.20	9.20	9.20	9.20	9.20	9.20	10.12	10.12

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CANDELA TABULATION - (Cont.)

132.5	10.12	9.20	10.12	10.12	10.12	10.12	10.12	10.12	10.12	10.12
135.0	10.12	10.12	10.12	11.04	11.04	10.12	10.12	10.12	11.04	11.04
137.5	11.04	11.04	11.04	11.96	11.04	11.04	11.04	11.04	11.04	11.96
140.0	11.96	11.96	12.88	12.88	12.88	11.96	11.96	11.96	12.88	12.88
142.5	14.72	14.72	14.72	14.72	14.72	14.72	13.80	13.80	14.72	14.72
145.0	16.56	16.56	16.56	17.48	17.48	16.56	16.56	16.56	16.56	16.56
147.5	18.40	19.32	19.32	20.24	20.24	19.32	19.32	19.32	19.32	20.24
150.0	21.16	22.08	23.00	23.00	23.00	23.00	22.08	22.08	22.08	23.00
152.5	25.76	26.68	27.60	28.52	27.60	26.68	25.76	26.68	25.76	26.68
155.0	29.44	30.36	32.20	32.20	31.28	31.28	30.36	30.36	30.36	31.28
157.5	33.12	34.04	36.80	36.80	35.88	34.96	34.96	35.88	35.88	36.80
160.0	35.88	36.80	39.56	38.64	38.64	38.64	39.56	39.56	40.48	40.48
162.5	34.96	34.96	35.88	36.80	37.72	40.48	41.40	40.48	41.40	41.40
165.0	17.48	17.48	19.32	25.76	32.20	36.80	37.72	38.64	38.64	38.64
167.5	9.20	9.20	11.04	16.56	21.16	24.84	28.52	30.36	30.36	31.28
170.0	1.84	1.84	2.76	5.52	9.20	12.88	15.64	16.56	17.48	17.48
172.5	0.00	0.00	0.00	0.92	1.84	2.76	4.60	4.60	4.60	4.60
175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.92	0.92	0.92
177.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

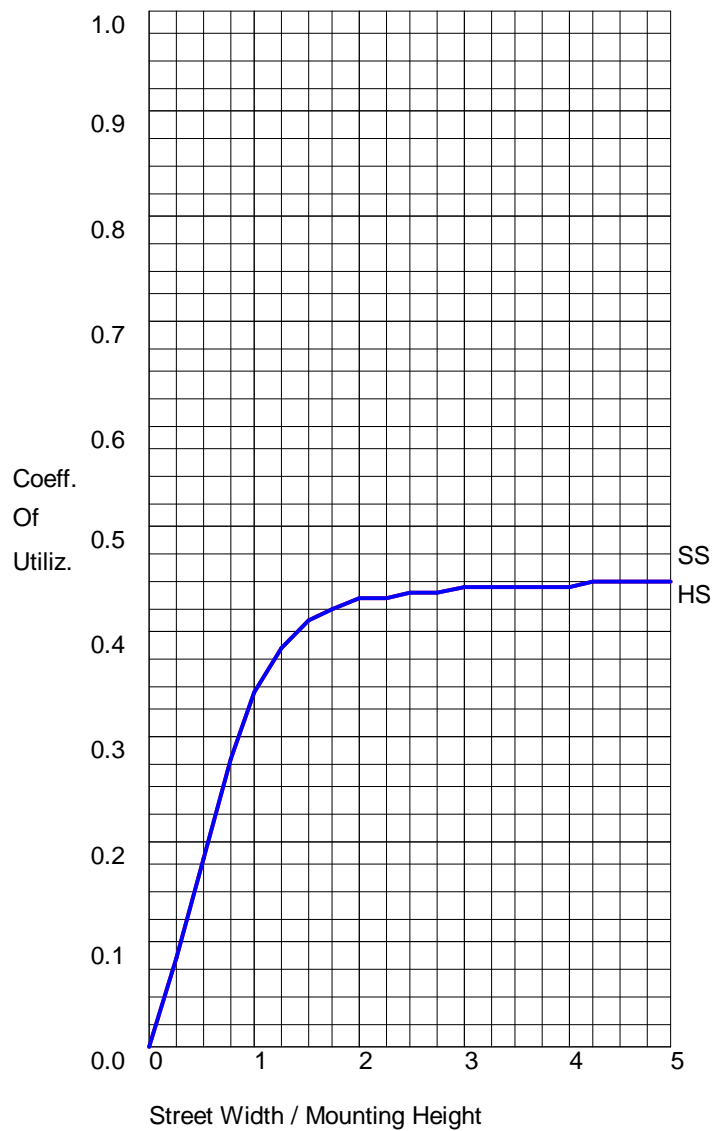
	<u>90</u>
0.0	0.92
2.5	0.92
5.0	1.84
7.5	2.76
10.0	4.60
12.5	14.72
15.0	48.76
17.5	84.64
20.0	139.84
22.5	195.96
25.0	261.28
27.5	318.32
30.0	362.48
32.5	391.92
35.0	412.16
37.5	422.28
40.0	428.72
42.5	405.72
45.0	381.80
47.5	354.20
50.0	320.16
52.5	276.00
55.0	246.56
57.5	201.48
60.0	161.00
62.5	112.24
65.0	80.96
67.5	49.68
70.0	34.04
72.5	38.64
75.0	37.72
77.5	36.80

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CANDELA TABULATION - (Cont.)

80.0	34.96
82.5	33.12
85.0	31.28
87.5	28.52
90.0	25.76
92.5	23.00
95.0	19.32
97.5	16.56
100.0	15.64
102.5	13.80
105.0	12.88
107.5	11.04
110.0	10.12
112.5	9.20
115.0	10.12
117.5	9.20
120.0	9.20
122.5	9.20
125.0	9.20
127.5	9.20
130.0	10.12
132.5	10.12
135.0	11.04
137.5	11.96
140.0	12.88
142.5	14.72
145.0	17.48
147.5	19.32
150.0	23.00
152.5	26.68
155.0	31.28
157.5	36.80
160.0	40.48
162.5	41.40
165.0	39.56
167.5	31.28
170.0	18.40
172.5	4.60
175.0	0.00
177.5	0.00
180.0	0.00

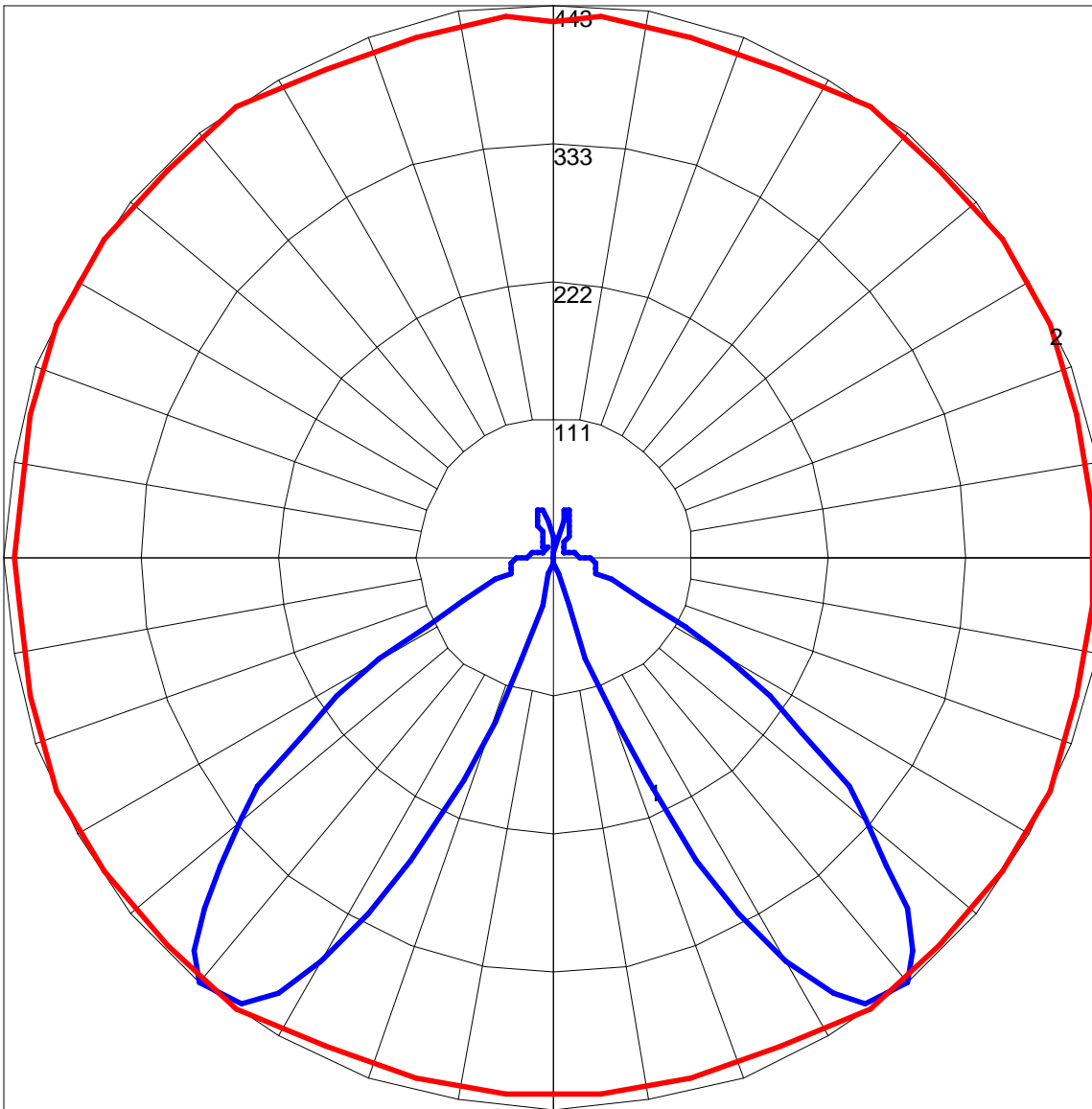
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

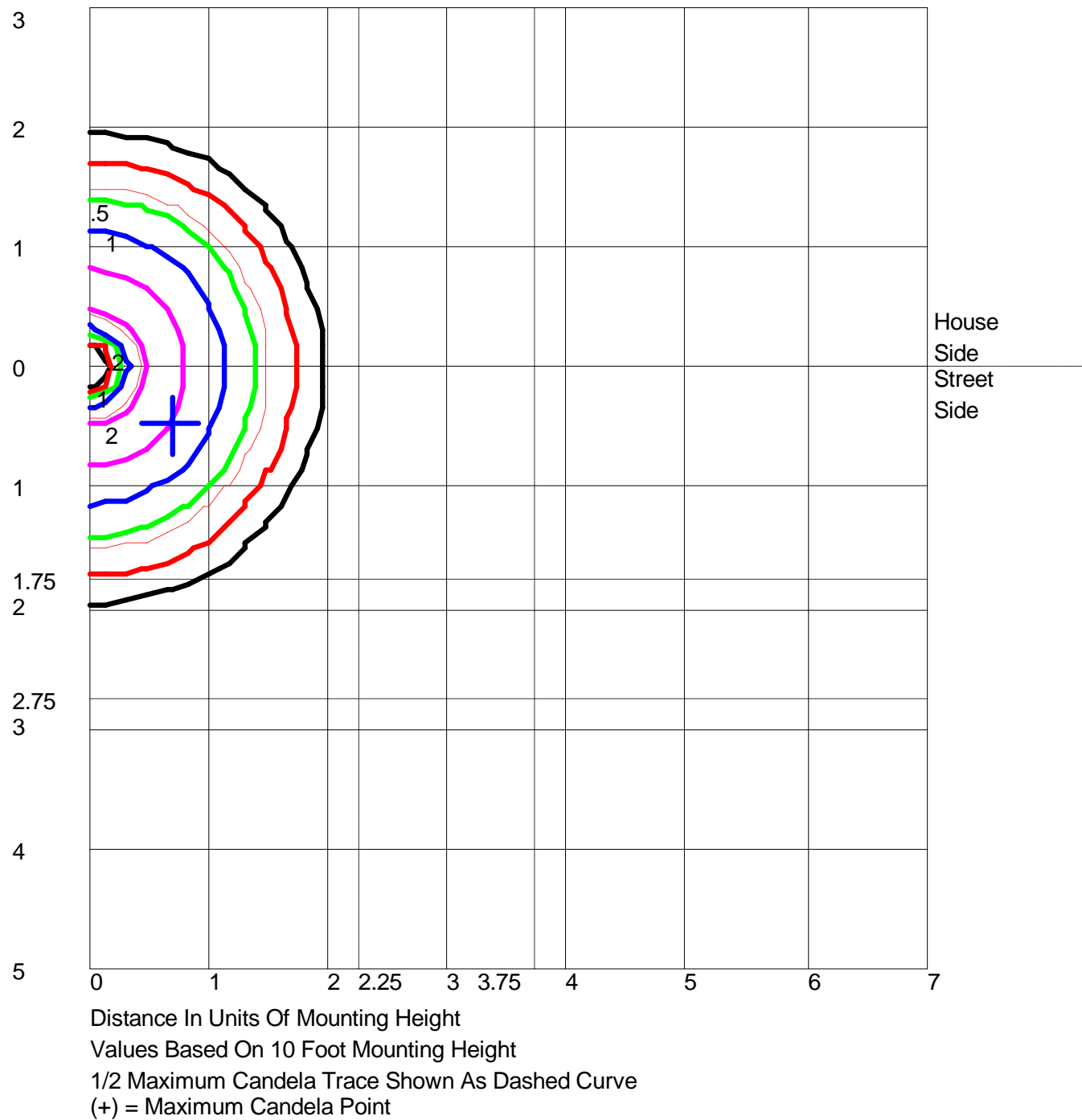
	Lumens	Percent Of Luminaire
Downward Street Side	542.0	46.0
Downward House Side	542.0	46.0
Downward Total	1084.0	92.0
Upward Street Side	47.1	4.0
Upward House Side	47.1	4.0
Upward Total	94.2	8.0
Total Flux	1178.2	100.0

POLAR GRAPH

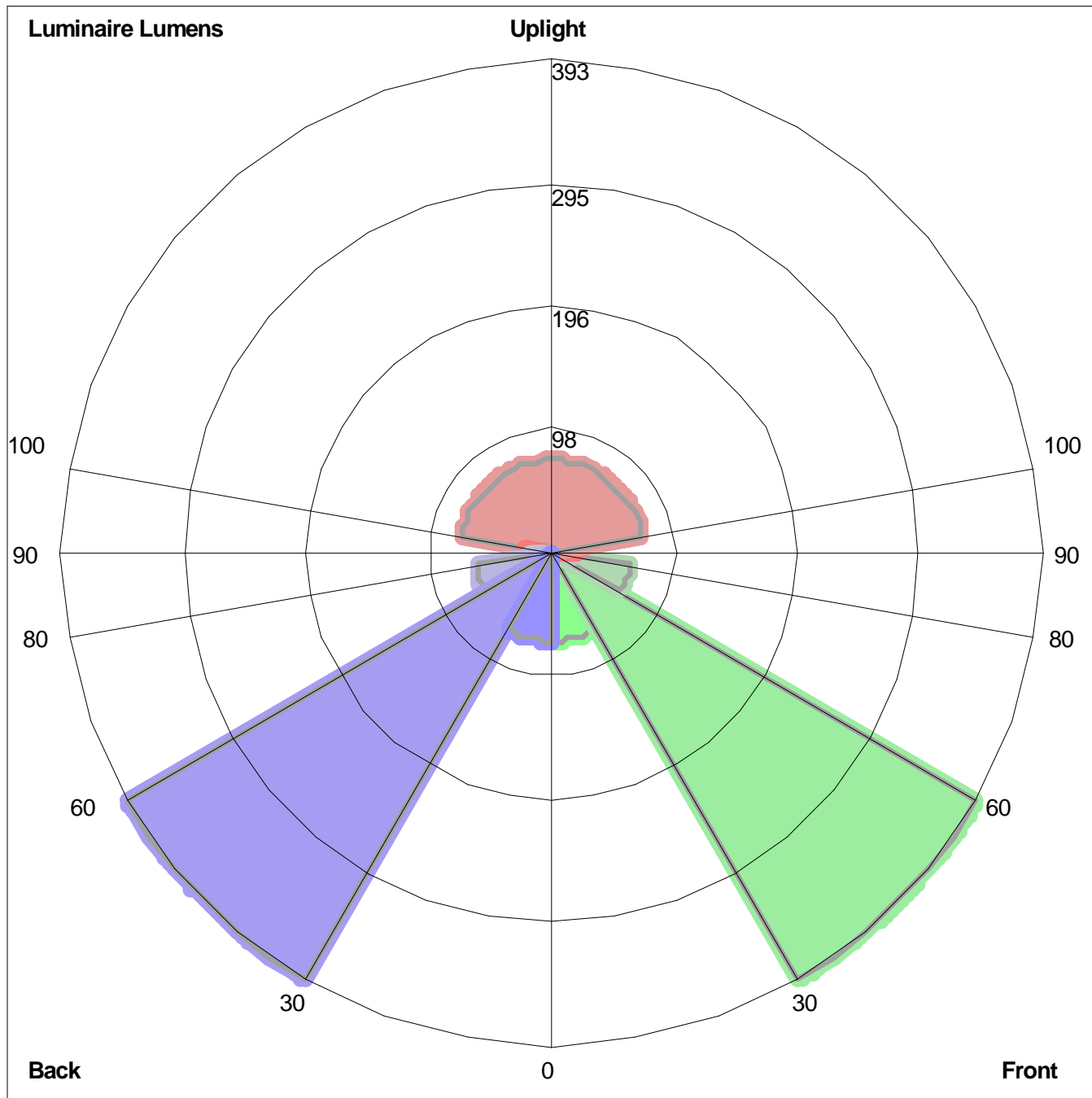


Maximum Candela = 443.44 Located At Horizontal Angle = 55, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=70.5, Medium=392.8, High=62.2, Very High=16.6
Back: Low=70.5, Medium=392.8, High=62.2, Very High=16.6
Uplight: Low=21.2, High=72.9

BUG Rating : B1-U3-G1