



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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-9739_SCALED
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]03/09/2018
[TEST DATE]02/19/18
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMCAT]CBR7-LED-10L-PC-A-30
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[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	1094
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	51
Total Luminaire Watts	21.6
Ballast Factor	1.00
Upward Waste Light Ratio	0.07
Maximum Candela	406.64
Maximum Candela Angle	55H 50V
Maximum Candela (<90 Degrees Vertical)	406.64
Maximum Candela Angle (<90 Degrees Vertical)	55H 50V
Maximum Candela At 90 Degrees Vertical	35.88 (3.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	37.72 (3.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	51.3	N.A.	4.7
FM - Front-Medium (30-60)	373.1	N.A.	34.1
FH - Front-High (60-80)	65.5	N.A.	6.0
FVH - Front-Very High (80-90)	17.3	N.A.	1.6
BL - Back-Low (0-30)	51.3	N.A.	4.7
BM - Back-Medium (30-60)	373.1	N.A.	34.1
BH - Back-High (60-80)	65.5	N.A.	6.0
BVH - Back-Very High (80-90)	17.3	N.A.	1.6
UL - Uplight-Low (90-100)	23.6	N.A.	2.2
UH - Uplight-High (100-180)	56.4	N.A.	5.2
Total	1094.4	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	0.00	0.92	0.92	0.92	0.00	0.92	0.00	0.92	0.92	0.00
5.0	0.92	1.84	1.84	1.84	0.92	0.92	1.84	0.92	1.84	1.84
7.5	2.76	2.76	2.76	2.76	2.76	2.76	1.84	2.76	2.76	2.76
10.0	2.76	3.68	4.60	3.68	3.68	3.68	3.68	3.68	4.60	4.60
12.5	5.52	5.52	7.36	6.44	6.44	7.36	7.36	6.44	6.44	7.36
15.0	18.40	13.80	23.00	19.32	18.40	17.48	18.40	11.04	12.88	13.80
17.5	54.28	44.16	43.24	31.28	33.12	34.96	34.96	49.68	57.04	40.48
20.0	77.28	79.12	74.52	81.88	115.00	94.76	107.64	84.64	89.24	100.28
22.5	132.48	141.68	110.40	143.52	138.92	146.28	128.80	144.44	137.08	140.76
25.0	193.20	209.76	201.48	186.76	207.00	210.68	218.04	222.64	187.68	189.52
27.5	235.52	229.08	230.92	238.28	285.20	248.40	246.56	255.76	241.04	246.56
30.0	235.52	272.32	265.88	271.40	313.72	322.00	311.88	299.00	297.16	305.44
32.5	270.48	278.76	283.36	310.96	327.52	331.20	320.16	328.44	323.84	333.04
35.0	264.04	291.64	299.00	313.72	346.84	332.12	356.04	361.56	349.60	344.08
37.5	284.28	300.84	310.96	325.68	347.76	363.40	378.12	365.24	364.32	356.96
40.0	294.40	309.12	322.00	342.24	359.72	368.92	387.32	379.04	378.12	368.00
42.5	286.12	303.60	329.36	337.64	367.08	368.92	393.76	383.64	385.48	379.04
45.0	290.72	307.28	322.00	333.96	367.08	376.28	406.64	396.52	391.92	380.88
47.5	287.96	294.40	311.88	321.08	355.12	365.24	402.04	398.36	394.68	380.88
50.0	274.16	279.68	303.60	325.68	355.12	369.84	406.64	391.92	388.24	386.40
52.5	243.80	270.48	271.40	303.60	340.40	347.76	391.92	374.44	355.12	335.80
55.0	239.20	276.00	263.12	265.88	276.92	298.08	327.52	330.28	322.00	299.92
57.5	188.60	212.52	218.04	232.76	244.72	253.92	296.24	296.24	275.08	248.40
60.0	150.88	152.72	185.84	185.84	194.12	229.08	264.96	260.36	236.44	222.64
62.5	99.36	90.16	96.60	122.36	141.68	142.60	152.72	170.20	181.24	165.60
65.0	59.80	59.80	70.84	83.72	80.96	109.48	142.60	149.04	122.36	114.08
67.5	29.44	29.44	36.80	40.48	38.64	37.72	44.16	50.60	51.52	40.48
70.0	20.24	21.16	23.00	24.84	26.68	25.76	24.84	23.92	25.76	26.68
72.5	23.92	23.92	25.76	28.52	28.52	28.52	28.52	27.60	29.44	28.52
75.0	26.68	27.60	28.52	30.36	30.36	29.44	30.36	31.28	33.12	31.28
77.5	25.76	27.60	29.44	31.28	34.04	32.20	34.04	34.04	35.88	36.80
80.0	26.68	27.60	31.28	35.88	35.88	35.88	35.88	34.04	34.96	37.72
82.5	24.84	27.60	30.36	34.96	34.96	34.04	34.96	34.04	34.96	35.88
85.0	24.84	25.76	30.36	32.20	32.20	33.12	34.96	35.88	34.96	33.12
87.5	24.84	26.68	28.52	28.52	30.36	28.52	30.36	32.20	32.20	33.12
90.0	22.08	24.84	24.84	25.76	26.68	25.76	25.76	27.60	31.28	33.12
92.5	18.40	19.32	23.00	24.84	23.00	23.92	21.16	22.08	29.44	31.28
95.0	14.72	15.64	20.24	20.24	22.08	21.16	19.32	19.32	24.84	25.76
97.5	12.88	13.80	19.32	17.48	19.32	20.24	17.48	18.40	26.68	23.00
100.0	11.96	11.96	16.56	14.72	16.56	18.40	14.72	15.64	23.00	18.40
102.5	11.96	11.96	14.72	13.80	14.72	18.40	14.72	13.80	18.40	16.56
105.0	11.96	10.12	12.88	13.80	14.72	17.48	12.88	12.88	15.64	15.64
107.5	9.20	9.20	9.20	11.04	11.04	12.88	10.12	11.04	12.88	12.88
110.0	7.36	7.36	8.28	8.28	9.20	9.20	9.20	9.20	11.04	10.12
112.5	6.44	6.44	7.36	7.36	7.36	7.36	7.36	8.28	8.28	8.28
115.0	5.52	5.52	6.44	6.44	7.36	7.36	6.44	6.44	7.36	7.36
117.5	5.52	6.44	6.44	6.44	7.36	7.36	7.36	7.36	7.36	7.36
120.0	6.44	6.44	6.44	7.36	7.36	7.36	7.36	7.36	7.36	7.36
122.5	6.44	6.44	7.36	7.36	7.36	7.36	7.36	7.36	8.28	8.28
125.0	6.44	6.44	7.36	7.36	7.36	8.28	7.36	7.36	8.28	8.28
127.5	7.36	7.36	7.36	8.28	8.28	8.28	8.28	8.28	8.28	9.20
130.0	7.36	7.36	7.36	8.28	8.28	8.28	8.28	8.28	8.28	9.20

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CANDELA TABULATION - (Cont.)

132.5	7.36	8.28	8.28	8.28	8.28	9.20	8.28	8.28	9.20	9.20
135.0	8.28	8.28	8.28	9.20	9.20	9.20	9.20	9.20	9.20	9.20
137.5	8.28	9.20	8.28	9.20	9.20	10.12	9.20	9.20	9.20	10.12
140.0	9.20	9.20	9.20	9.20	10.12	10.12	10.12	10.12	10.12	10.12
142.5	9.20	9.20	10.12	10.12	11.04	11.04	11.04	11.04	11.04	11.04
145.0	11.04	11.04	11.04	11.04	11.96	11.96	12.88	12.88	11.96	11.96
147.5	11.96	11.96	12.88	12.88	13.80	13.80	13.80	13.80	13.80	12.88
150.0	13.80	13.80	13.80	14.72	14.72	15.64	15.64	15.64	15.64	14.72
152.5	15.64	15.64	15.64	16.56	17.48	17.48	17.48	18.40	17.48	16.56
155.0	16.56	16.56	17.48	17.48	18.40	18.40	19.32	19.32	18.40	18.40
157.5	18.40	18.40	19.32	19.32	20.24	21.16	21.16	22.08	20.24	19.32
160.0	19.32	19.32	19.32	20.24	21.16	21.16	22.08	23.00	22.08	20.24
162.5	20.24	20.24	20.24	20.24	21.16	22.08	22.08	23.00	22.08	20.24
165.0	19.32	19.32	20.24	20.24	20.24	18.40	18.40	19.32	17.48	15.64
167.5	15.64	15.64	16.56	16.56	16.56	14.72	13.80	11.96	11.04	11.04
170.0	9.20	10.12	9.20	10.12	9.20	8.28	5.52	3.68	1.84	0.92
172.5	2.76	2.76	2.76	2.76	2.76	1.84	0.92	0.92	0.00	0.00
175.0	0.00	0.92	0.92	0.92	0.92	0.00	0.00	0.00	0.00	0.00
177.5	0.00	0.00	0.00	0.00	0.92	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**

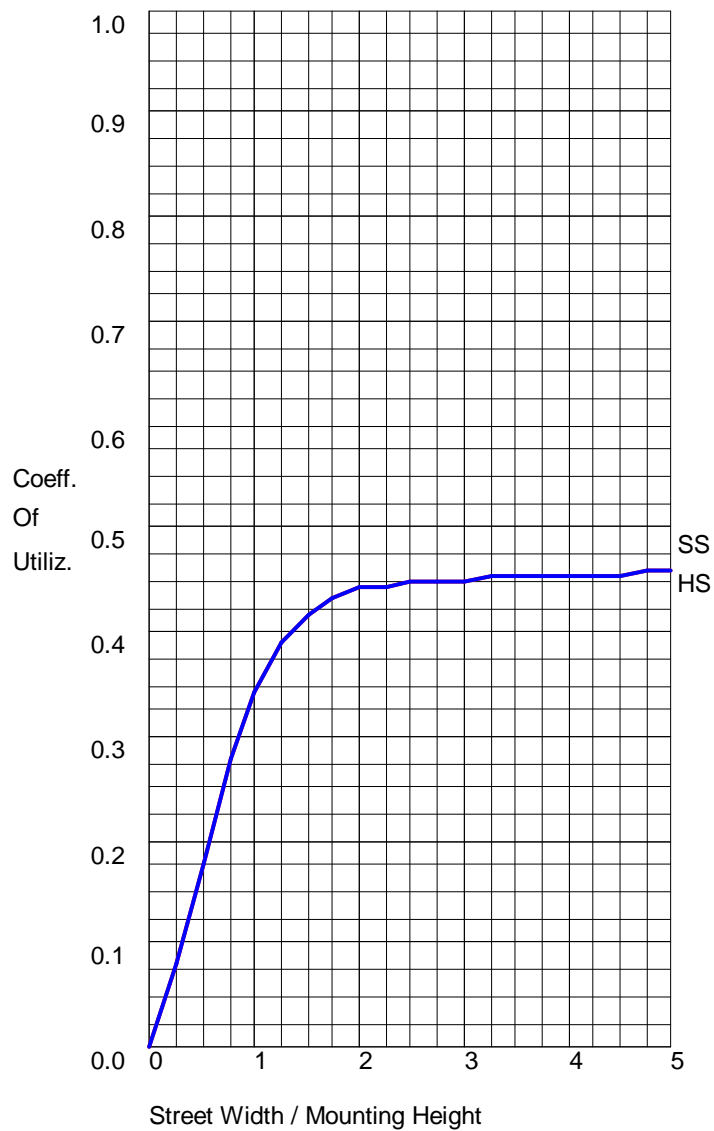
	<u>90</u>
0.0	0.92
2.5	0.92
5.0	0.92
7.5	2.76
10.0	3.68
12.5	6.44
15.0	12.88
17.5	47.84
20.0	92.00
22.5	146.28
25.0	207.92
27.5	265.88
30.0	293.48
32.5	334.88
35.0	356.96
37.5	367.08
40.0	375.36
42.5	378.12
45.0	379.96
47.5	373.52
50.0	381.80
52.5	337.64
55.0	297.16
57.5	241.04
60.0	216.20
62.5	161.92
65.0	114.08
67.5	45.08
70.0	26.68
72.5	28.52
75.0	30.36
77.5	35.88

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CANDELA TABULATION - (Cont.)

80.0	37.72
82.5	34.96
85.0	33.12
87.5	33.12
90.0	35.88
92.5	29.44
95.0	23.00
97.5	22.08
100.0	20.24
102.5	17.48
105.0	17.48
107.5	12.88
110.0	10.12
112.5	8.28
115.0	7.36
117.5	8.28
120.0	7.36
122.5	8.28
125.0	8.28
127.5	8.28
130.0	8.28
132.5	9.20
135.0	9.20
137.5	10.12
140.0	10.12
142.5	11.04
145.0	11.96
147.5	12.88
150.0	14.72
152.5	16.56
155.0	18.40
157.5	19.32
160.0	20.24
162.5	20.24
165.0	15.64
167.5	10.12
170.0	0.92
172.5	0.92
175.0	0.00
177.5	0.92
180.0	0.00

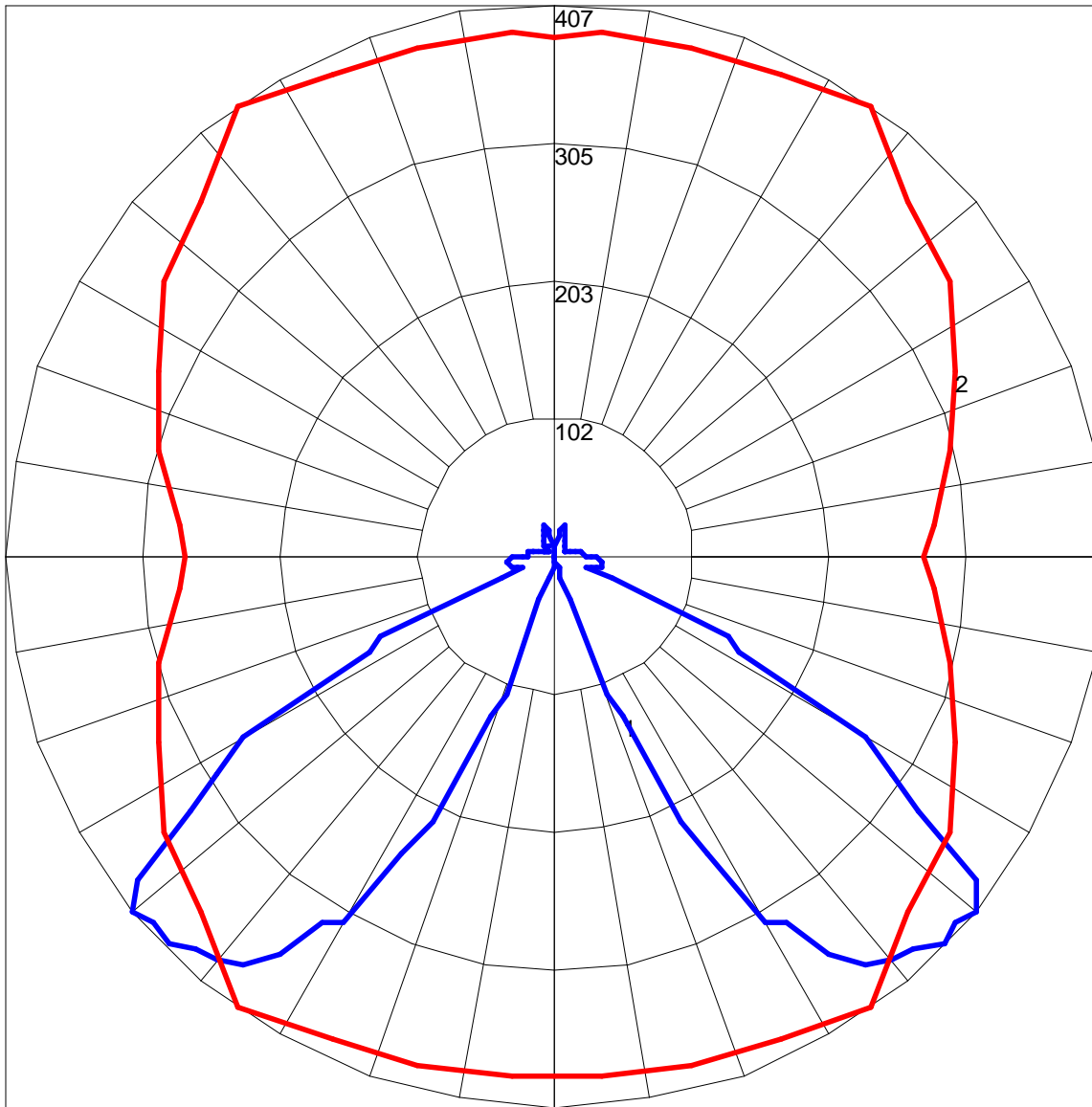
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

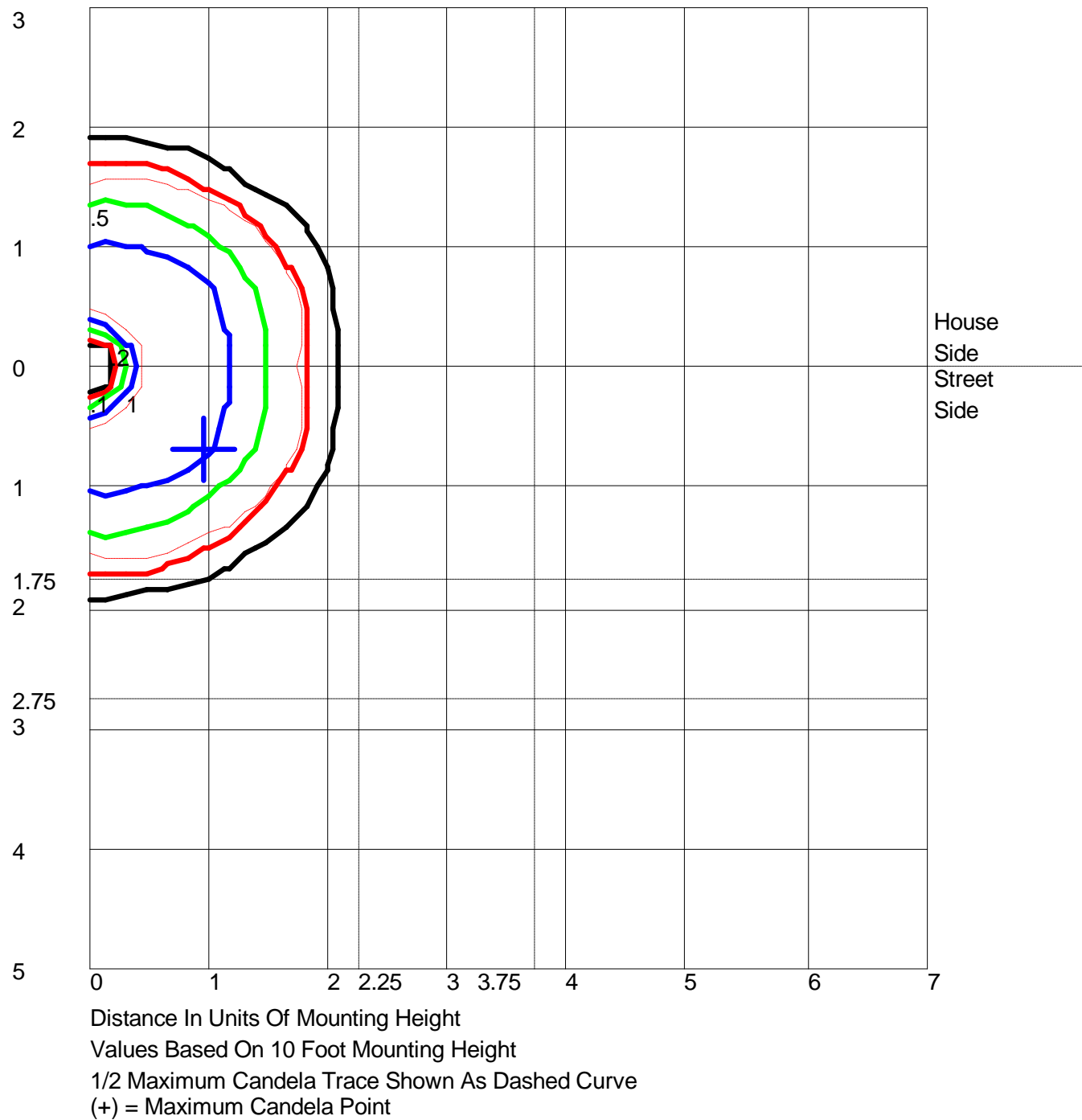
	Lumens	Percent Of Luminaire
Downward Street Side	507.2	46.3
Downward House Side	507.2	46.3
Downward Total	1014.4	92.7
Upward Street Side	40.0	3.7
Upward House Side	40.0	3.7
Upward Total	80.0	7.3
Total Flux	1094.4	100.0

POLAR GRAPH

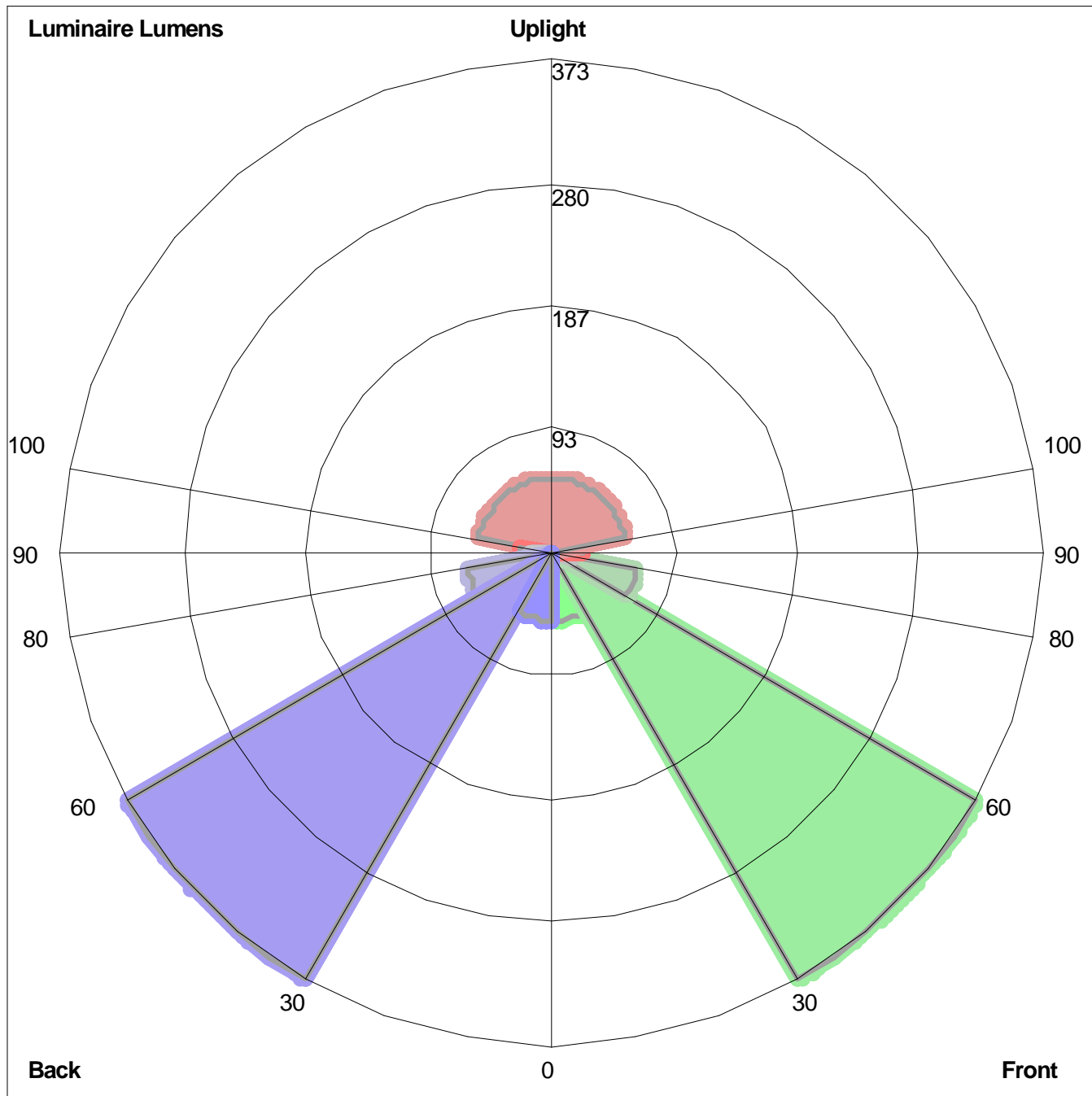


Maximum Candela = 406.64 Located At Horizontal Angle = 55, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (55 - 235) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=51.3, Medium=373.1, High=65.5, Very High=17.3
Back: Low=51.3, Medium=373.1, High=65.5, Very High=17.3
Uplight: Low=23.6, High=56.4

BUG Rating : B1-U3-G1