

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P#

Luminaire Tested: **BRT6-A1-727-U-T3-XX-BK**

Issue Date: 1/14/2021

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-849-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/14/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: BRT6-A1-727-U-T3-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 500LM, PATH ASYMMETRICAL, BLACK FINISH
Light Source: (8) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 448.8 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G0

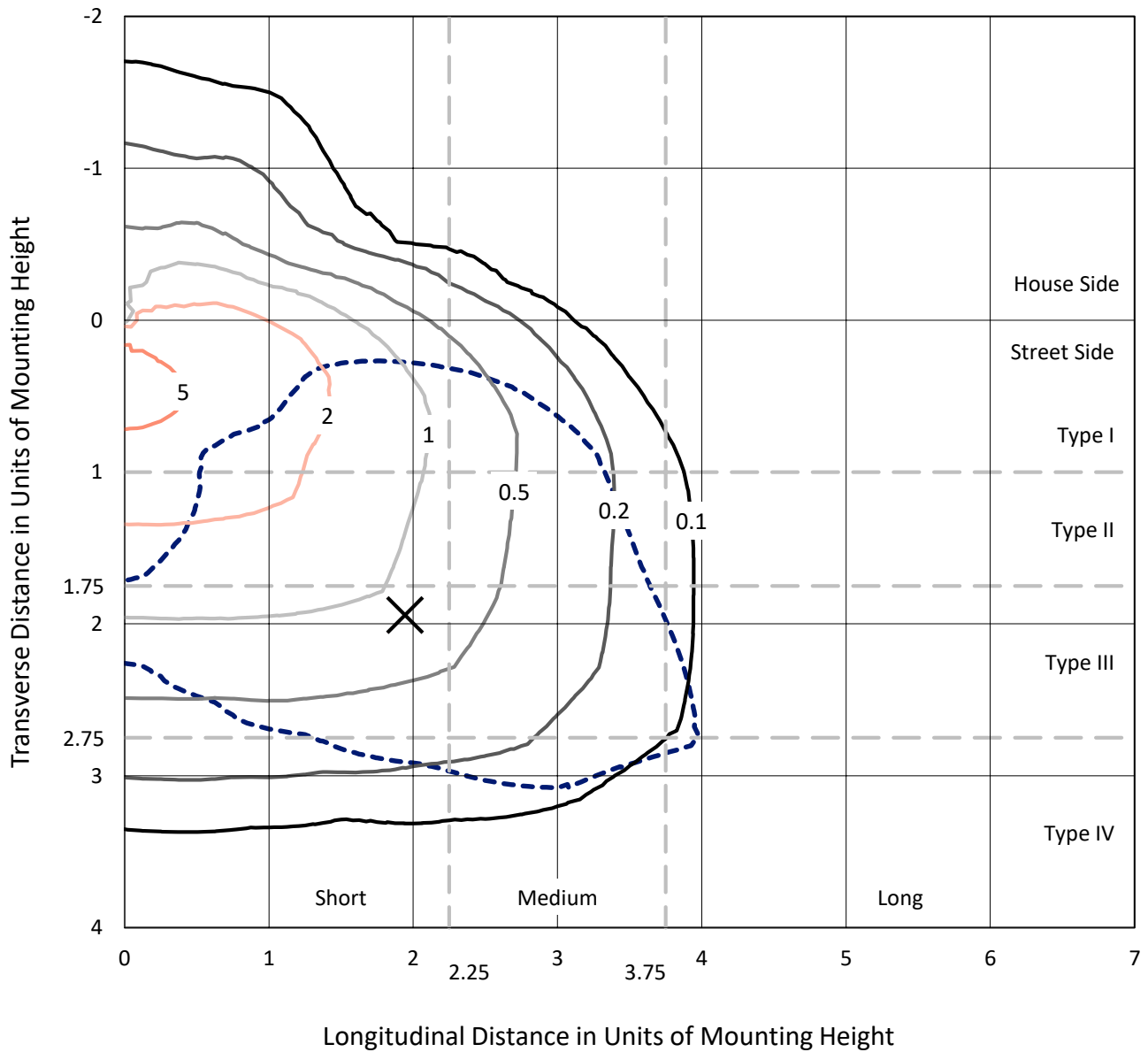
Input Watts (W): 5.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

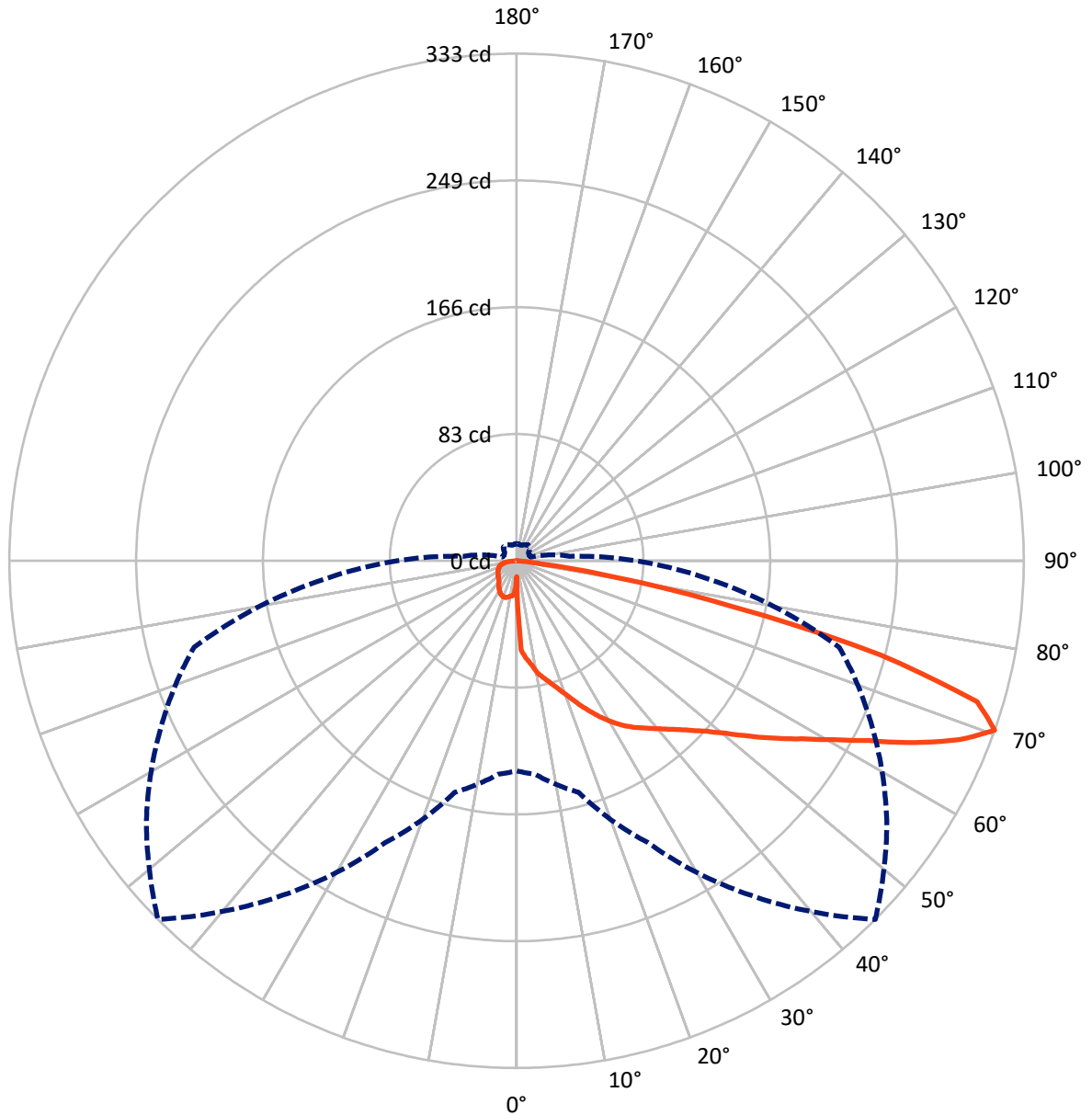
✕ Max cd
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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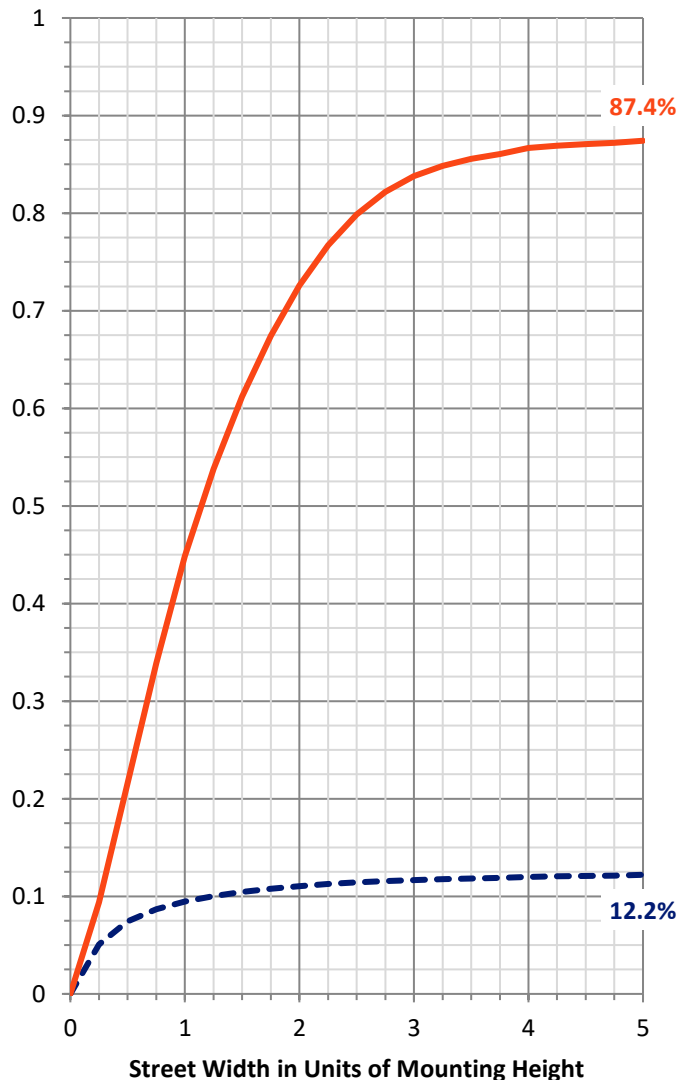
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	55.8	0.0	55.8
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	393.0	0.0	393.0
	% Fixture	87.6	0.0	87.6
Total	Lumens	448.8	0.0	448.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.1	0.9
10°-20°	15.0	3.3
20°-30°	29.7	6.6
30°-40°	47.5	10.6
40°-50°	66.0	14.7
50°-60°	88.7	19.8
60°-70°	115.6	25.8
70°-80°	74.8	16.7
80°-90°	7.4	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	448.8	100.0
0°-180°	448.8	100.0

Coefficient of Utilization



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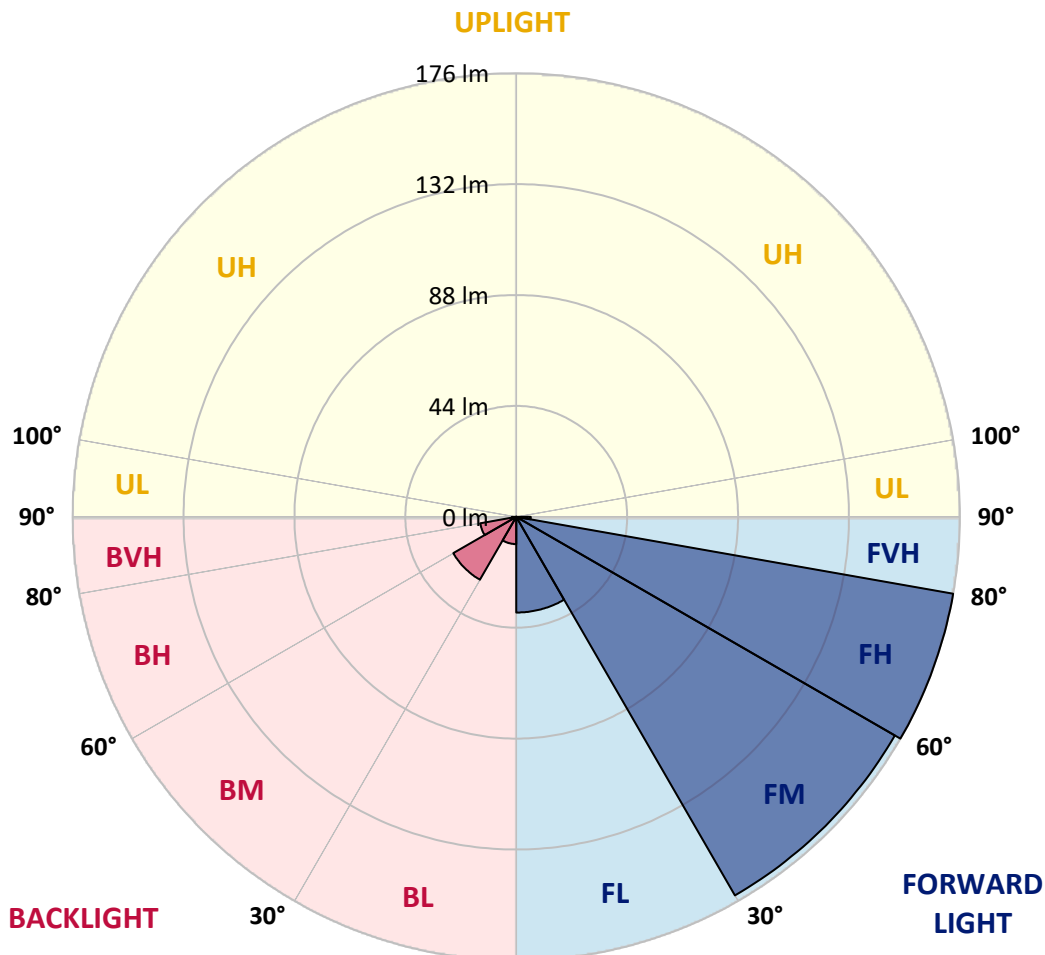
CATALOG NUMBER: BRT6-A1-727-U-T3-XX-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	38.0	8.5			
FM (30°-60°)	173.4	38.6			
FH (60°-80°)	175.9	39.2			G0/660
FVH (80°-90°)	5.7	1.3			G0/10
BL (0°-30°)	10.8	2.4	B0/110		
BM (30°-60°)	28.8	6.4	B0/220		
BH (60°-80°)	14.5	3.2	B0/110		G0/110
BVH (80°-90°)	1.7	0.4			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
2.5°	69.9	70.1	70.1	68.6	61.3	58.6	52.8	48.0	43.0	37.9	35.7
5°	75.1	75.1	75.1	74.4	72.4	64.1	60.6	53.5	49.0	43.0	41.7
7.5°	80.2	80.4	80.2	79.4	78.2	68.4	65.3	56.3	52.5	44.5	43.0
10°	84.7	84.9	84.9	84.2	83.2	74.6	69.4	59.1	55.3	45.7	44.0
12.5°	89.7	90.0	89.7	89.0	87.5	78.7	72.9	64.1	57.6	47.0	45.0
15°	95.8	96.0	96.3	94.5	92.7	82.9	76.9	67.1	59.8	48.8	46.0
17.5°	102.5	102.5	102.5	101.5	99.0	88.0	80.7	70.4	62.6	50.8	47.0
20°	109.8	110.1	109.8	109.1	105.8	94.0	85.2	73.9	65.3	53.0	48.3
22.5°	116.4	117.1	117.4	116.1	113.3	101.0	90.7	77.7	68.6	55.5	49.8
25°	123.9	124.2	123.9	123.1	120.1	108.3	96.0	81.9	72.1	58.3	51.8
27.5°	130.4	130.9	130.7	129.4	127.4	115.6	101.8	87.0	75.9	61.3	54.5
30°	137.7	137.5	136.7	136.2	134.5	122.4	108.1	92.2	80.2	65.1	58.6
32.5°	143.3	143.3	142.2	141.7	140.0	128.7	113.6	97.3	84.9	70.6	63.6
35°	148.3	148.5	147.5	146.5	145.0	134.2	118.6	102.3	90.5	77.2	69.4
37.5°	153.1	153.3	153.1	151.3	149.8	139.2	123.9	108.1	96.5	84.2	74.6
40°	156.3	156.8	157.8	155.3	154.1	144.8	129.9	115.9	104.8	91.7	79.7
42.5°	155.3	155.8	159.1	159.1	158.6	151.0	137.0	124.9	113.6	99.5	84.4
45°	152.3	153.3	158.8	161.6	163.4	158.3	145.0	135.7	123.9	107.6	89.2
47.5°	148.8	149.3	156.6	161.9	168.6	166.9	154.3	146.5	136.7	115.4	93.5
50°	146.5	147.5	155.1	162.9	174.2	177.7	164.6	159.1	149.5	122.6	97.0
52.5°	148.5	150.0	156.6	166.1	181.0	190.8	175.9	171.9	162.9	128.4	100.3
55°	152.8	153.3	161.3	172.7	190.8	205.3	188.0	187.0	176.2	133.5	102.5
57.5°	158.1	158.6	168.6	181.0	202.6	220.2	201.6	201.8	189.2	137.7	104.3
60°	165.4	166.6	177.2	192.8	216.6	237.8	216.9	217.9	201.6	140.5	105.1
62.5°	170.4	172.4	184.5	205.3	233.5	259.6	234.2	232.0	213.1	142.0	104.3
65°	168.4	169.1	185.7	214.6	251.1	287.3	255.6	244.8	222.2	141.0	101.0
67.5°	159.6	161.1	177.9	217.1	264.9	313.1	278.2	254.8	227.2	136.0	92.7
70°	137.7	140.5	157.1	203.8	267.7	332.5	296.3	257.1	218.9	122.6	78.2
72.5°	82.7	88.5	104.6	143.5	228.0	315.7	292.0	232.0	185.2	95.0	52.5
75°	42.0	43.2	48.5	71.6	140.7	246.3	249.8	181.5	135.5	55.3	29.7
77.5°	19.6	19.9	22.9	32.2	69.9	146.8	188.7	133.0	86.2	28.4	15.8
80°	10.8	11.6	12.3	15.8	21.6	67.4	118.9	80.7	49.0	12.6	7.0
82.5°	7.3	7.3	7.5	8.0	10.3	16.3	40.0	31.2	18.8	5.0	3.5
85°	2.8	3.0	3.3	3.5	4.0	4.3	4.5	4.3	3.0	1.8	1.3
87.5°	1.3	1.3	1.3	1.5	1.3	1.3	1.3	1.0	1.0	0.8	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
2.5°	33.7	30.9	24.9	22.1	16.3	15.1	11.1	8.0	4.3	3.3
5°	38.5	33.2	29.4	24.4	22.1	15.8	14.8	8.5	9.0	12.8
7.5°	40.0	33.7	31.2	24.9	23.1	16.1	15.1	9.0	11.1	13.1
10°	42.0	34.2	31.4	25.1	23.4	16.3	15.3	10.1	13.8	13.8
12.5°	42.7	34.7	31.9	25.4	24.1	16.8	15.8	12.3	14.3	14.6
15°	43.5	34.9	32.4	26.1	24.6	17.6	16.3	14.6	14.6	14.8
17.5°	44.2	35.4	33.4	26.6	25.1	18.3	16.3	14.8	14.6	14.8
20°	45.0	36.4	34.4	27.1	25.1	19.4	16.3	14.8	14.6	14.8
22.5°	46.5	37.9	35.7	27.4	24.9	19.6	15.8	14.6	14.3	14.6
25°	48.5	40.2	36.4	27.6	24.4	19.4	15.6	14.3	13.8	14.1
27.5°	51.5	43.0	36.9	27.9	23.6	19.1	15.1	13.8	13.3	13.6
30°	55.8	45.5	36.7	27.4	22.6	18.6	14.6	13.3	13.1	13.3
32.5°	60.8	47.2	35.9	26.4	21.6	18.1	14.1	12.8	12.6	12.8
35°	65.1	47.8	34.2	24.6	20.6	17.6	13.6	12.3	12.3	12.6
37.5°	68.6	47.2	31.7	23.1	19.4	16.8	13.1	12.1	12.1	12.1
40°	71.4	45.7	28.9	21.4	18.1	16.1	12.8	11.8	11.8	12.1
42.5°	73.4	43.5	26.4	20.1	17.3	15.8	12.6	11.6	11.6	11.8
45°	74.9	40.7	24.1	18.6	16.6	15.3	12.1	11.1	11.1	11.3
47.5°	76.4	37.9	21.9	17.6	16.3	15.1	11.6	11.1	11.1	11.3
50°	77.2	35.2	20.1	16.8	15.8	14.3	11.3	11.1	11.6	11.6
52.5°	77.7	32.7	18.3	15.8	15.6	14.1	11.6	11.6	11.8	12.1
55°	77.2	29.4	16.6	14.8	14.8	14.1	11.8	11.8	12.1	12.1
57.5°	74.9	25.6	14.8	14.1	14.3	14.3	12.1	11.8	12.1	12.3
60°	71.9	21.6	13.6	13.3	14.1	14.3	12.3	11.8	12.3	12.3
62.5°	66.3	17.3	12.1	12.3	13.8	14.3	12.3	11.6	12.3	12.3
65°	57.8	13.8	10.8	11.3	13.3	14.1	12.1	11.3	11.8	12.1
67.5°	47.2	11.6	9.8	10.3	12.8	13.8	11.8	11.1	11.3	11.8
70°	34.9	9.8	9.0	9.6	12.3	12.8	11.6	10.6	11.1	11.3
72.5°	22.9	8.3	8.0	8.8	11.8	11.8	11.1	10.1	10.6	11.1
75°	13.3	6.5	6.5	7.8	11.1	10.8	10.6	8.5	9.3	10.3
77.5°	8.3	5.0	5.5	6.5	10.3	10.1	9.8	7.3	8.0	9.6
80°	4.0	3.8	4.0	5.5	8.8	8.8	9.0	6.3	7.0	8.8
82.5°	2.3	2.3	2.8	3.8	7.8	7.5	7.8	5.3	6.0	7.8
85°	1.3	1.5	1.5	2.5	5.3	4.8	6.5	3.8	4.5	6.0
87.5°	0.5	0.5	0.3	0.3	0.8	0.3	0.8	0.5	1.5	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By E9970913

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
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Scaled Data Report





— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



--- HS — SS



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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





(END OF REPORT)