

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-A2-727-U-T4-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 (G3-2004-745-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/14/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: BRT6-A2-727-U-T4-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 1000LM, WIDE PATH ASYMMETRICAL, BLACK FINISH
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 921 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

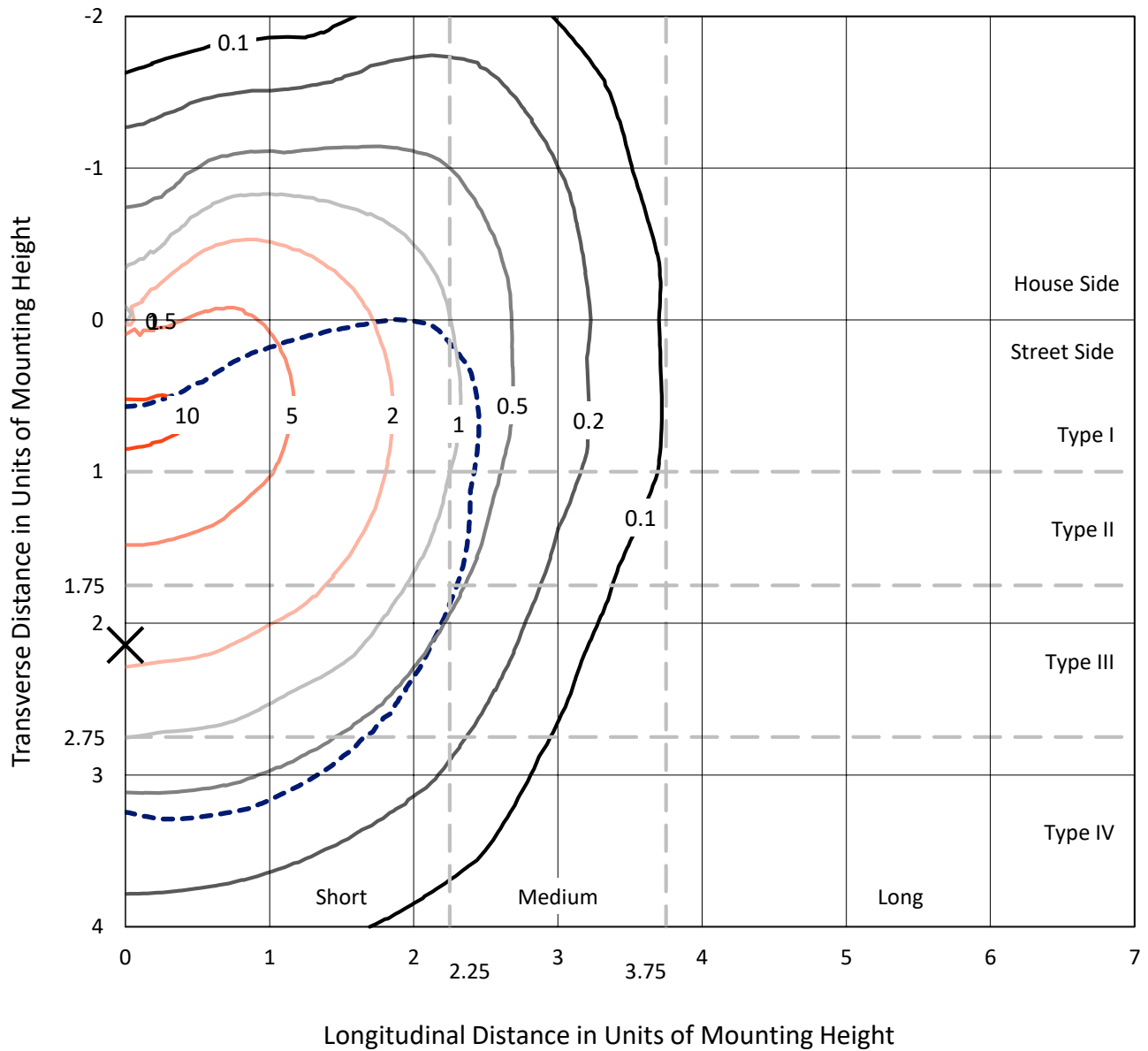
Input Watts (W): 9.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

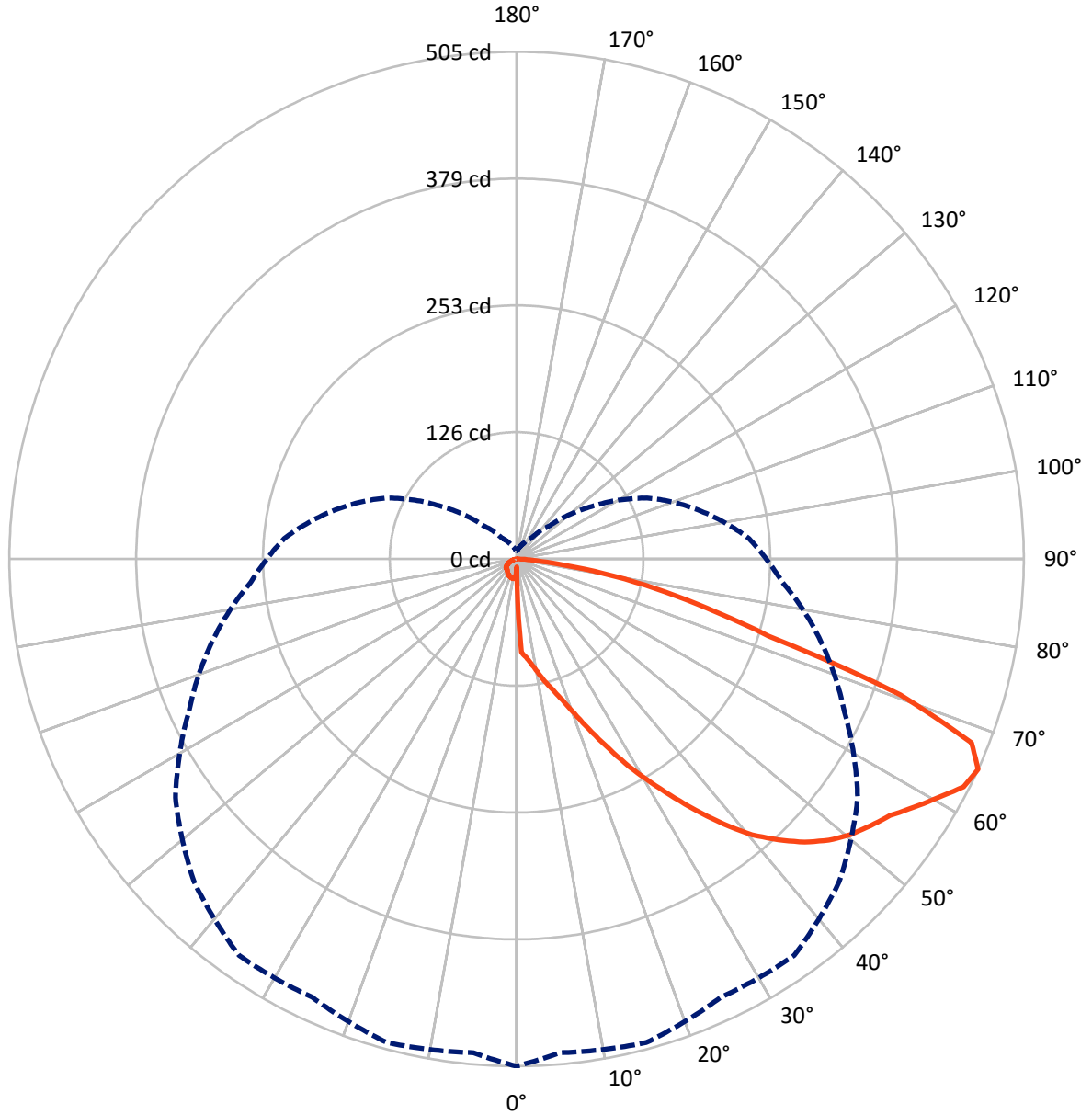
✕ Max cd
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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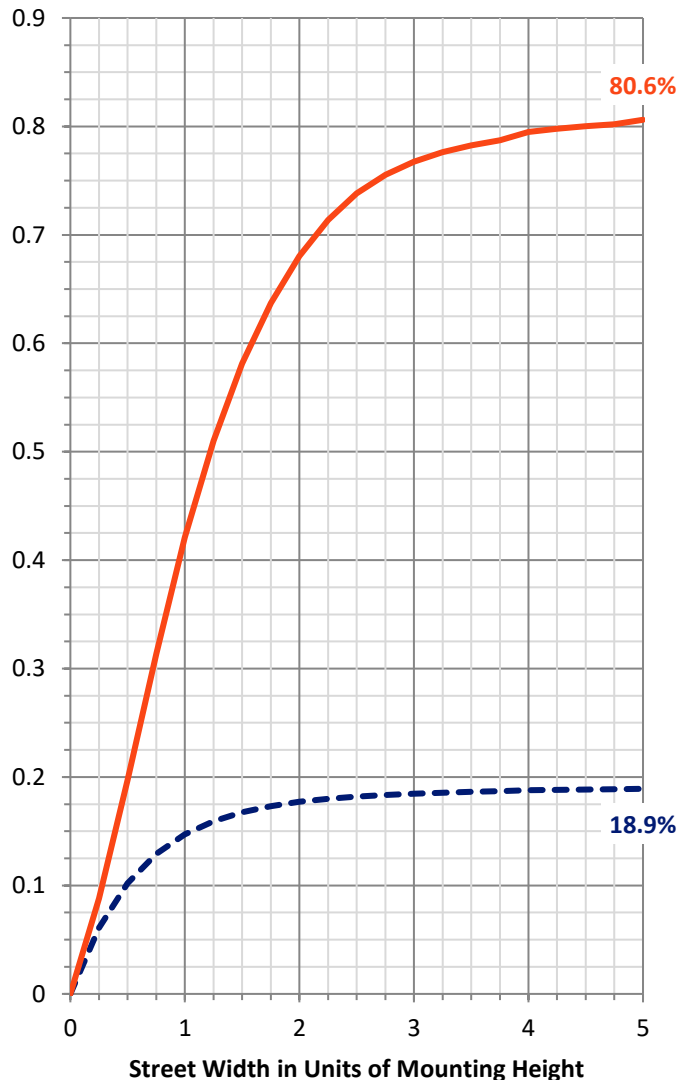
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	175.1	0.0	175.1
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	746.0	0.0	746.0
	% Fixture	81.0	0.0	81.0
Total	Lumens	921.0	0.0	921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	0.6
10°-20°	22.6	2.5
20°-30°	52.7	5.7
30°-40°	103.5	11.2
40°-50°	162.2	17.6
50°-60°	213.0	23.1
60°-70°	238.8	25.9
70°-80°	109.0	11.8
80°-90°	13.6	1.5
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°	921.0	100.0
0°-180°	921.0	100.0

Coefficient of Utilization



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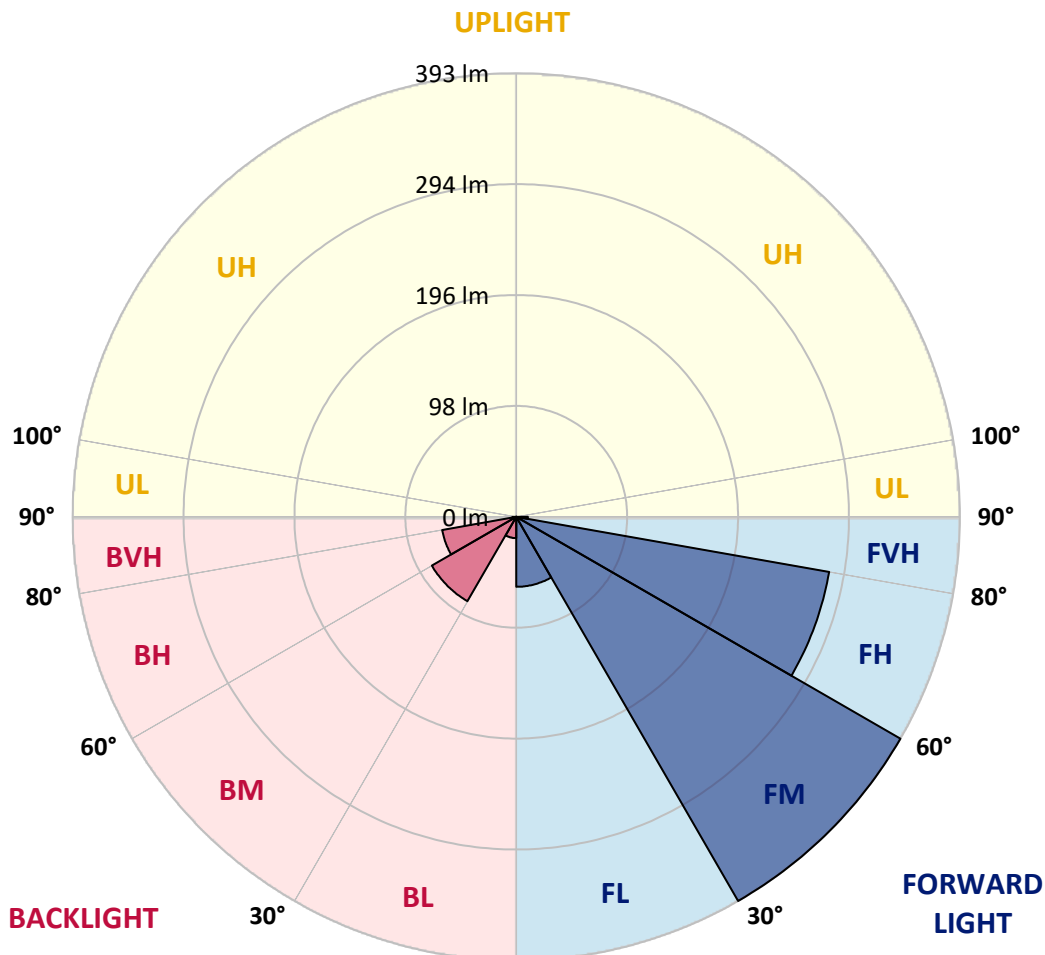
CATALOG NUMBER: BRT6-A2-727-U-T4-XX-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	61.9	6.7			
FM (30°-60°)	392.6	42.6			
FH (60°-80°)	281.2	30.5			G0/660
FVH (80°-90°)	10.3	1.1			G1/100
BL (0°-30°)	18.9	2.1	B0/110		
BM (30°-60°)	86.2	9.4	B0/220		
BH (60°-80°)	66.6	7.2	B0/110		G0/110
BVH (80°-90°)	3.4	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
2.5°	93.2	91.3	85.3	79.8	74.3	66.9	62.7	57.2	51.7	46.6	46.1
5°	98.3	97.8	97.8	90.4	87.6	80.3	76.1	69.7	65.0	58.1	55.8
7.5°	105.2	105.2	105.2	102.4	95.9	90.4	85.3	76.6	72.0	63.2	61.8
10°	114.4	114.4	113.9	113.0	105.2	101.0	92.7	84.9	78.9	69.7	66.4
12.5°	125.0	124.5	123.6	122.2	113.9	110.7	101.5	94.1	85.8	75.2	71.5
15°	135.2	135.6	134.7	132.8	125.0	120.9	110.7	103.8	93.2	82.1	77.0
17.5°	147.6	148.1	146.2	144.8	137.5	132.4	121.8	113.9	101.9	90.4	84.4
20°	164.2	163.3	161.9	160.5	152.2	145.8	134.2	126.4	113.0	100.1	92.7
22.5°	183.6	182.7	181.7	179.0	168.8	163.3	149.5	140.2	124.5	110.7	102.4
25°	205.7	206.2	202.5	201.1	189.1	183.6	167.0	156.4	138.8	122.7	113.0
27.5°	230.2	230.6	226.9	225.1	213.6	206.2	189.1	175.3	154.1	135.6	125.5
30°	254.6	255.5	253.7	251.9	238.5	230.6	210.3	195.1	171.1	149.5	137.5
32.5°	280.0	281.8	278.6	279.1	266.2	256.9	234.8	216.8	191.0	165.1	151.3
35°	307.2	308.6	306.3	306.7	293.4	284.6	259.2	238.5	209.9	180.8	166.1
37.5°	334.9	334.9	333.0	333.5	318.7	308.1	280.5	260.6	227.4	195.6	179.9
40°	361.2	361.2	359.3	356.6	344.1	329.4	304.0	278.6	244.5	207.1	190.0
42.5°	382.4	381.9	378.7	377.3	364.4	349.2	324.3	294.8	258.3	218.6	199.7
45°	402.2	401.8	396.2	395.3	382.9	367.6	341.8	311.4	269.8	228.3	209.0
47.5°	418.4	418.4	412.8	412.4	399.0	384.7	356.6	325.2	280.9	238.9	215.9
50°	431.3	431.3	425.3	427.6	410.1	400.8	369.0	337.7	292.0	247.7	224.6
52.5°	441.4	443.3	437.8	441.0	422.1	415.6	381.5	347.8	301.7	255.5	232.5
55°	451.1	455.3	449.3	453.0	433.1	429.4	393.5	358.4	310.0	261.5	240.3
57.5°	466.4	468.2	462.7	463.1	445.1	439.6	405.0	366.7	317.4	266.6	245.4
60°	482.5	481.1	477.9	471.9	460.4	450.2	414.2	371.8	323.4	271.7	250.5
62.5°	499.6	489.9	491.3	480.2	474.2	456.7	419.8	372.7	323.8	273.5	253.2
65°	505.1	493.6	498.6	481.6	482.0	454.4	414.7	360.3	313.2	265.7	248.6
67.5°	488.5	477.9	488.0	460.4	472.3	426.2	384.2	320.1	283.7	241.2	230.2
70°	405.5	386.5	404.5	373.2	386.5	326.1	283.7	222.8	205.3	178.1	175.3
72.5°	262.0	273.1	279.1	269.8	250.5	212.6	170.2	143.0	144.8	122.7	127.8
75°	195.6	195.6	195.1	186.8	179.9	141.6	108.9	97.8	103.3	90.9	87.6
77.5°	141.6	138.4	131.0	131.0	126.4	89.5	75.2	70.1	71.0	66.4	61.8
80°	88.1	93.6	84.4	84.4	77.0	54.4	47.1	46.1	42.9	39.2	38.3
82.5°	41.1	44.7	40.6	42.0	34.6	26.8	23.5	22.1	18.9	17.1	17.5
85°	14.8	13.8	12.5	12.5	11.1	8.8	7.8	7.4	6.0	6.0	6.0
87.5°	6.5	6.0	5.5	5.5	5.1	4.6	4.6	3.7	2.8	2.3	1.8
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°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
2.5°	43.8	37.8	34.1	28.6	25.8	19.8	18.0	12.0	14.3	14.8
5°	51.2	47.1	39.7	36.4	29.1	26.3	20.3	18.0	18.5	19.4
7.5°	58.6	50.3	45.2	38.7	31.8	27.7	22.6	19.8	20.8	19.8
10°	63.7	53.5	48.4	40.1	34.6	28.1	22.6	21.2	21.7	19.8
12.5°	68.3	57.7	50.7	41.5	35.5	28.6	23.5	21.7	21.7	19.8
15°	73.8	61.3	53.5	42.9	36.4	28.6	24.0	21.2	21.2	19.4
17.5°	79.8	66.4	57.2	44.7	36.9	28.6	23.5	20.8	21.2	18.9
20°	87.6	72.0	60.9	47.1	37.8	28.6	23.5	20.3	20.8	18.5
22.5°	95.0	78.0	64.6	49.4	38.7	28.6	23.1	19.4	20.3	18.5
25°	104.7	84.9	69.7	52.1	40.1	28.6	22.6	18.9	19.4	18.0
27.5°	115.3	92.7	75.6	55.4	42.0	28.6	22.1	18.0	18.5	17.5
30°	127.3	101.9	81.2	59.5	43.8	29.5	21.7	17.5	18.0	17.1
32.5°	139.3	110.7	87.2	63.2	46.6	30.4	21.7	17.1	17.1	16.6
35°	152.2	119.9	93.2	67.3	48.9	31.4	21.7	16.6	16.6	15.7
37.5°	163.3	129.2	99.6	71.5	51.7	32.8	22.1	16.6	15.7	15.2
40°	174.4	137.0	105.2	75.2	54.0	33.7	22.6	16.6	15.2	14.3
42.5°	182.7	143.5	109.8	78.0	55.8	35.1	23.1	16.6	15.2	14.3
45°	190.5	149.5	113.0	80.3	57.2	36.4	24.0	16.6	14.8	13.8
47.5°	197.0	154.5	115.8	81.6	57.7	37.4	24.9	17.1	14.8	13.8
50°	203.4	159.6	117.6	82.6	56.7	37.8	25.4	17.5	14.3	13.8
52.5°	209.9	163.8	119.5	83.5	54.9	36.9	24.9	17.5	13.8	13.4
55°	215.9	168.8	120.9	83.5	52.6	35.5	24.4	17.1	12.9	12.5
57.5°	221.9	173.4	123.2	83.5	50.3	33.2	23.1	16.1	12.5	11.5
60°	228.8	179.4	127.3	84.4	47.1	30.9	21.2	15.2	11.5	10.6
62.5°	233.4	185.4	134.7	86.3	45.2	28.1	19.4	13.8	10.1	9.2
65°	232.5	187.7	143.5	90.9	47.1	25.4	17.5	12.5	8.8	8.3
67.5°	217.7	180.4	149.0	92.7	53.5	22.6	15.2	11.1	7.8	6.9
70°	176.2	159.6	138.4	99.6	54.9	20.3	13.8	9.2	6.9	6.0
72.5°	122.2	121.3	107.0	95.9	53.5	19.8	12.5	7.8	6.0	5.1
75°	91.3	81.6	87.2	75.2	49.8	20.8	11.1	6.5	4.6	4.2
77.5°	64.1	58.1	59.5	55.4	40.6	18.9	9.2	5.1	3.7	3.2
80°	39.7	35.1	37.4	32.8	26.8	14.3	6.9	3.7	2.3	2.3
82.5°	18.5	14.8	15.7	13.8	12.5	7.4	3.7	2.3	1.4	1.4
85°	5.5	4.2	4.2	3.2	2.8	2.8	1.8	0.9	0.9	0.5
87.5°	1.8	1.4	1.4	0.9	0.5	0.5	0.5	0.0	0.0	0.0
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 0-Deg Lateral

- - - Horizontal Cone Through 65-Deg Vertical



--- HS — SS



0°

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

Scaled Data Report





(END OF REPORT)