

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-T5S-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 (G3-2006-849-4)
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-T5S-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 1000LM, TYPE V SQUARE SYMMETRICAL, BLACK FINISH
Light Source: (16) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 941 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G0

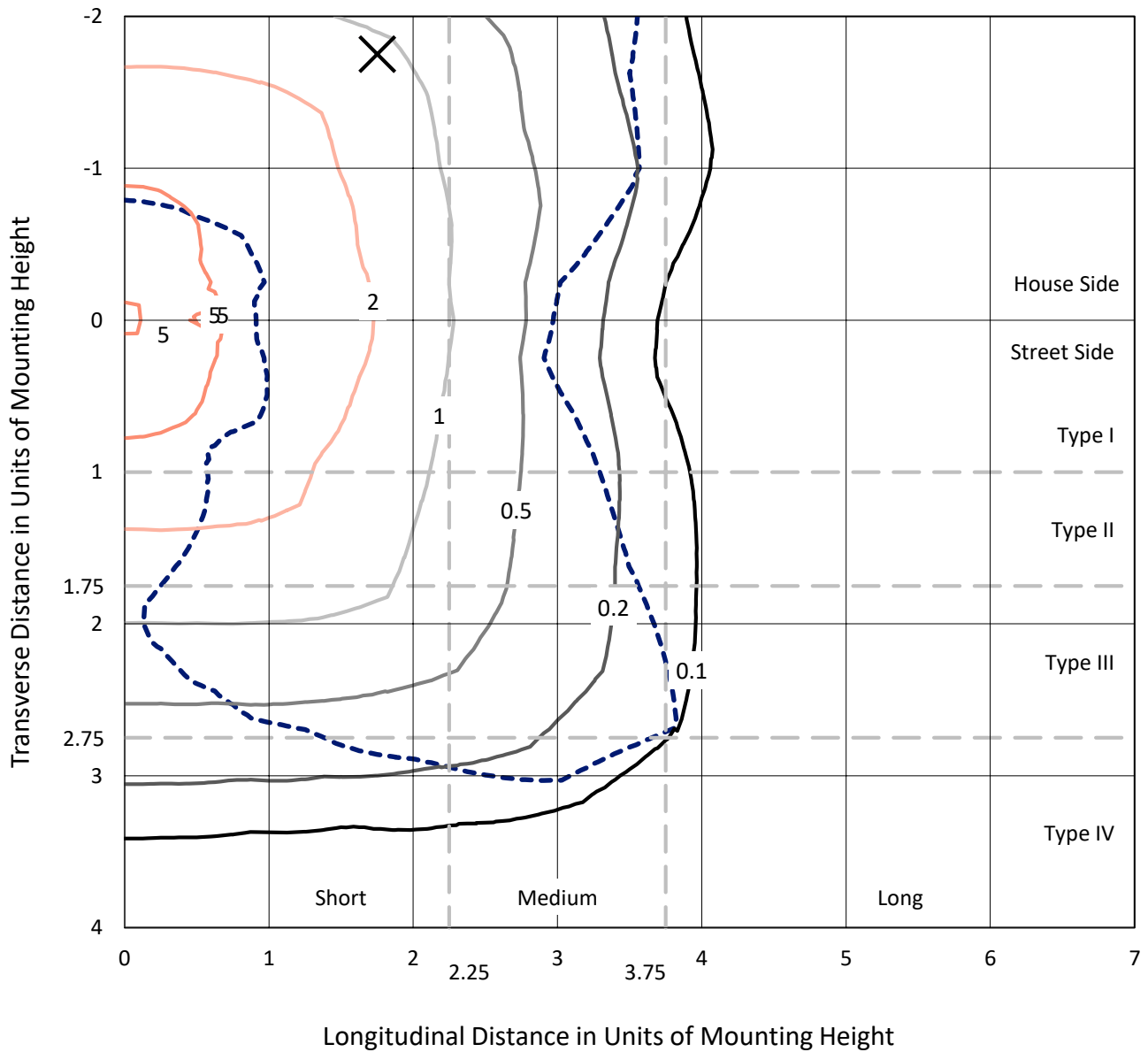
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

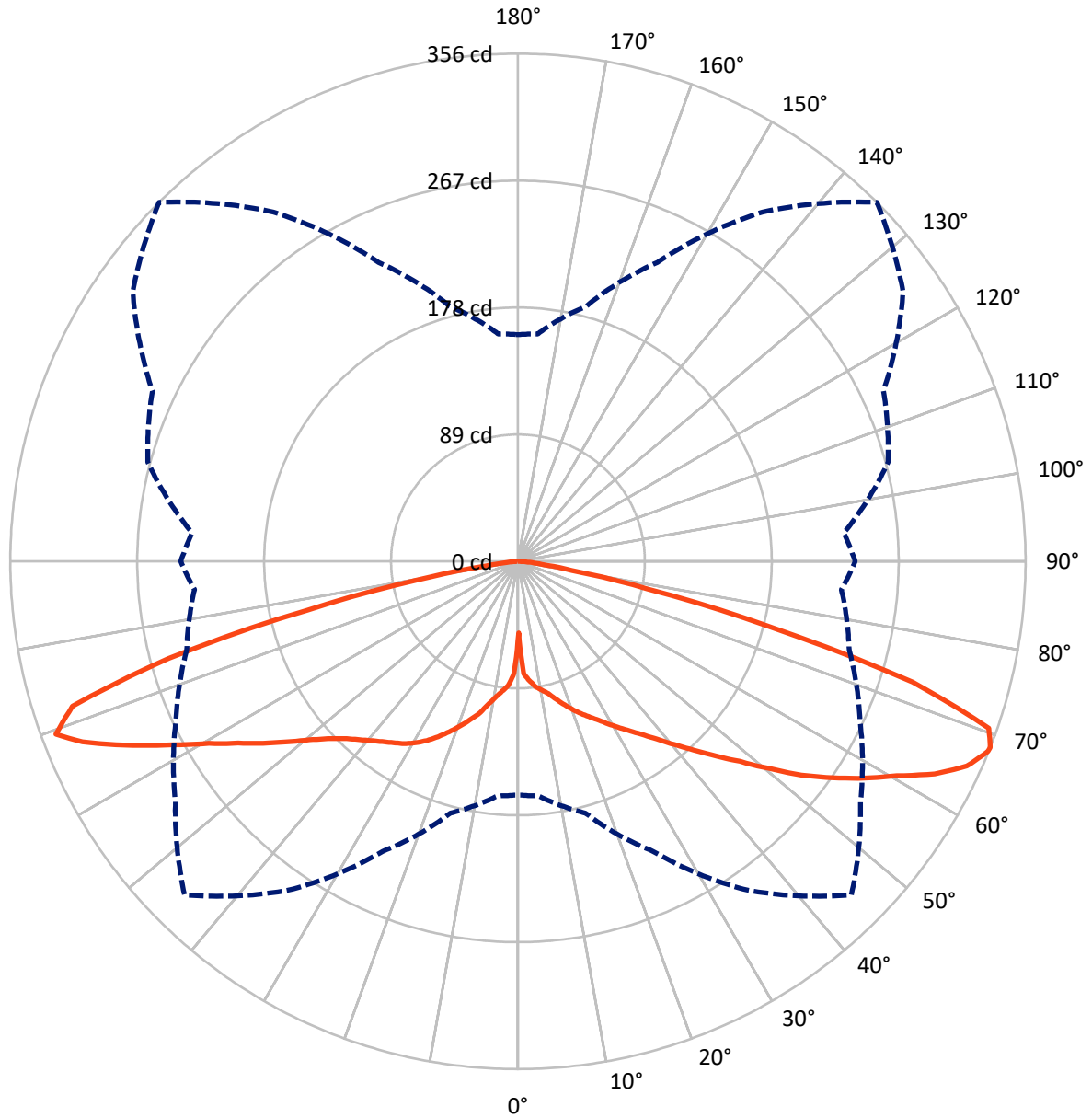
✕ Max cd
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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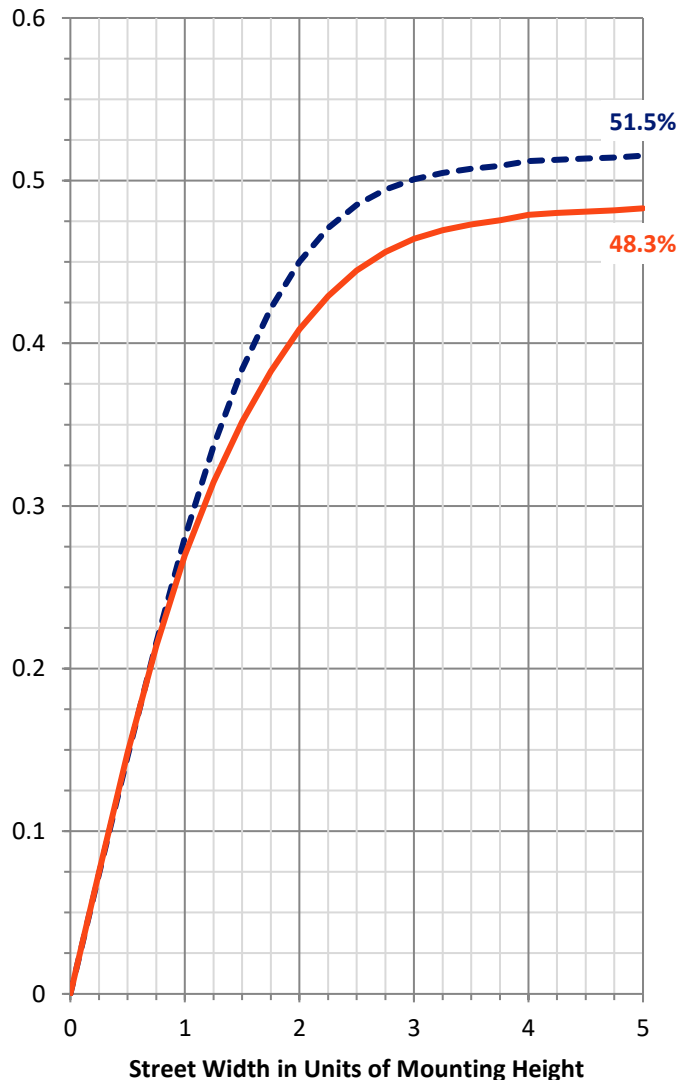
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	485.6	0.0	485.6
	% Fixture	51.6	0.0	51.6
Street Side	Lumens	455.4	0.0	455.4
	% Fixture	48.4	0.0	48.4
Total	Lumens	941.0	0.0	941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.2	0.9
10°-20°	29.1	3.1
20°-30°	58.1	6.2
30°-40°	95.9	10.2
40°-50°	142.4	15.1
50°-60°	199.8	21.2
60°-70°	249.3	26.5
70°-80°	145.5	15.5
80°-90°	12.9	1.4
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°	941.0	100.0
0°-180°	941.0	100.0

Coefficient of Utilization



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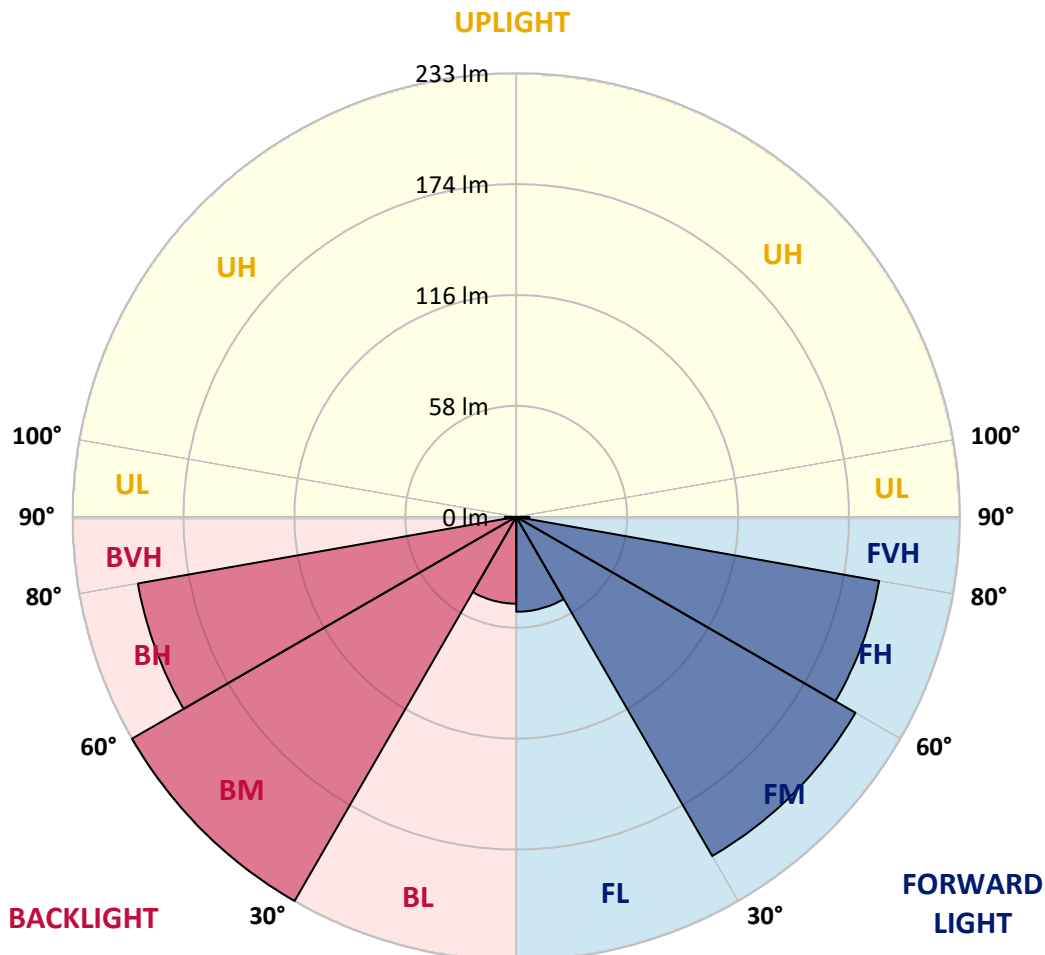
CATALOG NUMBER: BRT6-A1-727-U-T5S-XX-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	49.8	5.3			
FM (30°-60°)	205.4	21.8			
FH (60°-80°)	193.3	20.5			G0/660
FVH (80°-90°)	6.9	0.7			G0/10
BL (0°-30°)	45.5	4.8	B0/110		
BM (30°-60°)	232.6	24.7	B1/1000		
BH (60°-80°)	201.5	21.4	B1/500		G0/660
BVH (80°-90°)	6.0	0.6			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
2.5°	71.2	71.7	77.8	79.0	77.6	78.3	76.9	77.4	75.5	76.9	75.7
5°	89.0	83.8	84.0	90.4	88.3	87.3	84.2	86.1	81.4	84.0	83.3
7.5°	94.9	90.4	89.9	96.1	95.6	91.8	90.4	89.2	87.1	86.6	86.4
10°	100.6	100.6	97.2	101.5	101.3	96.8	95.1	92.7	90.9	88.7	88.3
12.5°	106.2	106.0	105.3	106.9	107.9	102.9	99.8	96.1	95.1	91.1	90.6
15°	112.9	112.4	111.9	112.6	114.8	110.7	104.6	100.3	98.7	93.7	92.7
17.5°	120.4	120.2	119.7	120.0	121.6	116.4	109.5	105.3	102.4	96.5	95.3
20°	127.1	126.6	126.8	127.3	129.2	122.6	114.3	111.0	106.7	100.6	98.4
22.5°	133.2	133.2	133.4	133.9	136.5	128.9	120.4	117.1	111.7	104.8	102.2
25°	139.1	139.1	140.1	140.5	143.1	135.1	126.3	123.3	117.4	109.8	106.7
27.5°	145.3	144.8	145.0	145.7	149.1	141.0	132.0	128.9	123.0	115.9	112.9
30°	150.5	150.0	150.2	151.0	154.7	146.2	137.5	133.9	128.9	124.5	121.6
32.5°	155.0	154.5	154.5	155.4	159.5	150.7	142.2	138.9	135.8	135.3	132.5
35°	159.0	158.3	159.0	159.5	163.3	154.3	145.5	143.4	142.4	146.0	143.6
37.5°	162.5	161.8	163.0	162.5	166.3	158.3	148.6	147.9	149.8	156.9	155.0
40°	165.1	164.9	167.3	166.1	169.6	162.8	152.8	153.3	157.8	168.2	166.8
42.5°	163.5	163.7	168.0	169.4	173.0	168.0	158.3	160.2	166.8	181.0	178.9
45°	160.7	161.6	166.6	171.3	177.0	174.1	165.6	167.7	177.0	193.8	191.9
47.5°	155.4	156.4	164.2	171.3	181.2	182.2	173.0	177.0	188.1	206.6	204.7
50°	153.3	154.3	162.5	171.8	186.2	192.6	182.7	187.9	198.5	218.1	217.0
52.5°	154.7	156.6	164.2	175.1	193.1	205.4	191.6	198.7	209.2	228.8	228.3
55°	159.2	160.2	169.2	181.7	203.2	219.6	203.0	210.1	219.6	238.5	238.7
57.5°	164.9	165.6	175.8	190.9	215.3	234.0	214.8	223.1	228.1	246.3	247.2
60°	172.5	173.2	184.8	202.8	229.5	251.5	229.3	237.3	234.5	252.2	253.9
62.5°	178.4	179.1	192.1	215.1	247.5	274.0	246.1	249.1	238.5	253.9	256.9
65°	175.8	176.5	192.8	224.1	265.7	299.5	267.4	257.7	241.3	248.0	253.6
67.5°	167.3	168.5	185.0	225.7	279.4	325.6	289.4	263.8	241.3	233.0	240.4
68°	163.7	165.1	182.7	224.3	281.6	330.8	293.4	264.8	240.6	227.8	236.6
70°	145.3	146.2	164.7	210.3	283.0	346.1	309.0	265.5	232.1	201.1	211.3
72.5°	92.3	93.9	107.2	152.4	237.1	328.6	306.2	240.9	197.8	146.9	151.7
75°	48.3	47.6	55.1	81.2	149.1	254.6	261.7	188.1	143.4	82.8	84.7
77.5°	25.3	24.6	27.2	38.3	72.9	151.7	190.9	135.3	88.7	41.9	45.2
80°	16.6	16.1	16.6	20.8	29.8	72.6	113.3	83.0	51.3	17.7	18.0
82.5°	12.1	10.9	11.6	13.0	15.9	22.0	40.0	34.1	22.2	7.3	8.0
85°	6.6	5.9	5.7	7.6	7.3	8.0	6.4	5.2	4.3	2.8	2.8
87.5°	3.8	2.4	1.9	2.4	1.9	1.9	1.7	1.4	1.7	1.2	1.2
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°	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2	50.2
2.5°	76.2	78.1	77.4	77.1	79.0	79.3	79.3	76.2	73.3	75.5
5°	81.6	83.0	83.0	84.2	84.0	84.9	84.0	78.8	80.4	78.6
7.5°	86.8	85.4	87.1	86.6	88.7	86.8	85.9	81.9	82.1	84.5
10°	89.2	87.5	89.4	88.7	91.8	90.4	88.5	84.7	84.5	87.1
12.5°	92.0	89.7	92.5	91.6	95.1	94.4	92.0	88.5	88.5	90.9
15°	94.9	92.3	96.1	95.3	100.3	99.6	97.2	93.5	94.6	96.1
17.5°	97.5	95.3	100.3	99.8	105.8	105.3	103.2	99.6	101.3	101.7
20°	100.8	98.9	105.0	105.3	111.2	111.4	108.8	106.5	107.7	108.4
22.5°	105.0	104.1	111.0	110.3	116.6	117.6	115.5	114.0	115.2	116.2
25°	110.7	110.5	116.6	115.5	121.6	124.5	122.3	122.3	124.0	124.9
27.5°	119.0	117.4	122.6	121.1	127.5	132.0	130.4	131.8	133.0	134.2
30°	128.5	124.9	128.5	127.1	134.2	139.8	139.4	141.2	143.1	144.3
32.5°	139.1	133.0	134.4	133.0	141.0	147.9	148.6	151.9	153.8	154.5
35°	150.7	141.2	141.0	139.6	148.8	157.3	159.2	163.5	164.7	165.6
37.5°	162.1	149.5	148.3	147.4	158.0	168.0	169.4	174.8	175.1	175.3
40°	173.0	158.8	157.6	157.1	168.9	178.2	181.0	185.5	185.5	184.8
42.5°	183.6	168.0	168.2	168.0	180.8	190.0	192.4	195.2	194.0	193.8
45°	195.7	176.7	180.3	180.8	194.7	202.3	202.5	204.7	204.2	203.7
47.5°	208.4	185.7	193.8	194.0	209.6	216.5	213.9	215.1	214.6	213.6
50°	221.7	195.7	207.0	208.4	228.3	230.4	225.2	225.5	224.8	223.3
52.5°	233.0	207.0	219.6	223.3	248.9	247.7	238.0	236.1	234.0	231.6
55°	243.7	219.1	232.1	239.7	267.8	263.8	250.8	245.6	239.9	238.5
57.5°	251.0	229.7	245.1	253.6	286.8	280.6	261.9	250.6	240.1	237.8
60°	254.3	240.9	260.3	269.5	305.2	295.0	269.2	249.1	234.9	231.9
62.5°	251.5	250.8	272.1	287.7	328.2	305.9	269.0	241.1	221.9	218.6
65°	244.4	260.0	280.4	307.8	346.1	308.3	259.1	221.9	197.6	193.8
67.5°	232.1	267.8	283.0	326.5	355.6	302.1	238.0	190.9	167.3	164.2
68°	229.5	268.8	283.0	329.8	356.1	299.1	231.4	185.3	160.2	159.0
70°	211.3	268.3	282.3	341.9	350.4	271.9	196.1	146.0	127.1	122.6
72.5°	164.2	237.8	255.8	319.2	289.6	189.8	119.0	81.6	72.2	68.1
75°	99.8	174.4	190.0	240.6	181.2	102.2	64.1	44.7	40.2	40.2
77.5°	54.7	108.8	127.1	161.6	93.0	54.4	35.7	26.5	25.1	26.7
80°	22.2	57.7	75.5	77.6	38.3	27.0	22.5	16.6	16.3	17.0
82.5°	8.5	22.7	25.1	19.9	16.6	15.9	14.2	11.1	10.6	12.5
85°	2.8	4.3	5.2	5.4	8.3	8.8	9.5	6.6	6.4	8.3
87.5°	1.4	1.7	1.4	1.7	1.9	1.9	1.9	1.9	2.1	4.0
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

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Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report





— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



--- HS — SS



0°

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

Scaled Data Report





(END OF REPORT)