

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-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-A1-727-U-T4-XX-BK  
Description: BOLLARD 6INCH ROUND BASE, 500LM, 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: 467 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G0

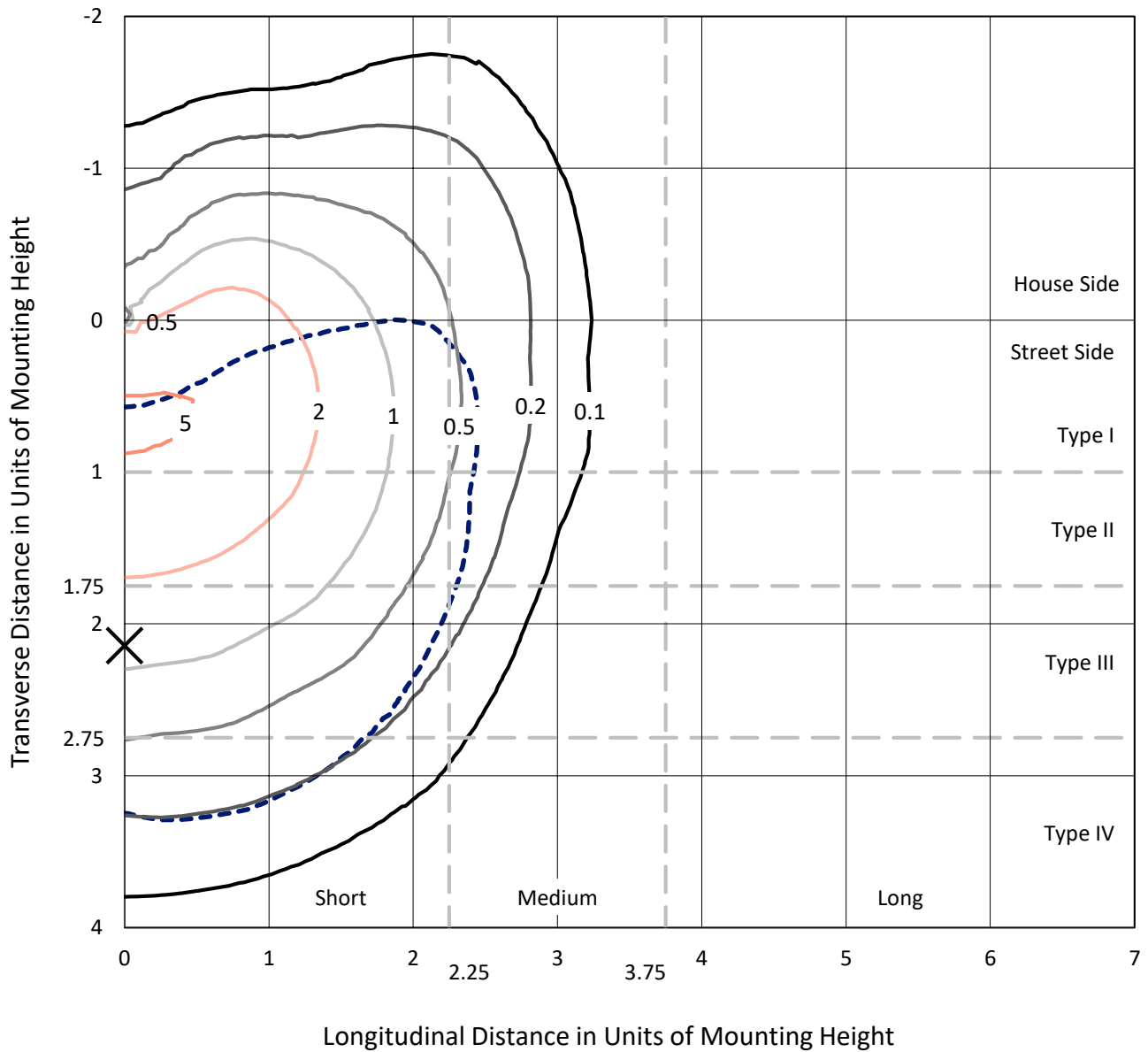
Input Watts (W): 5.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

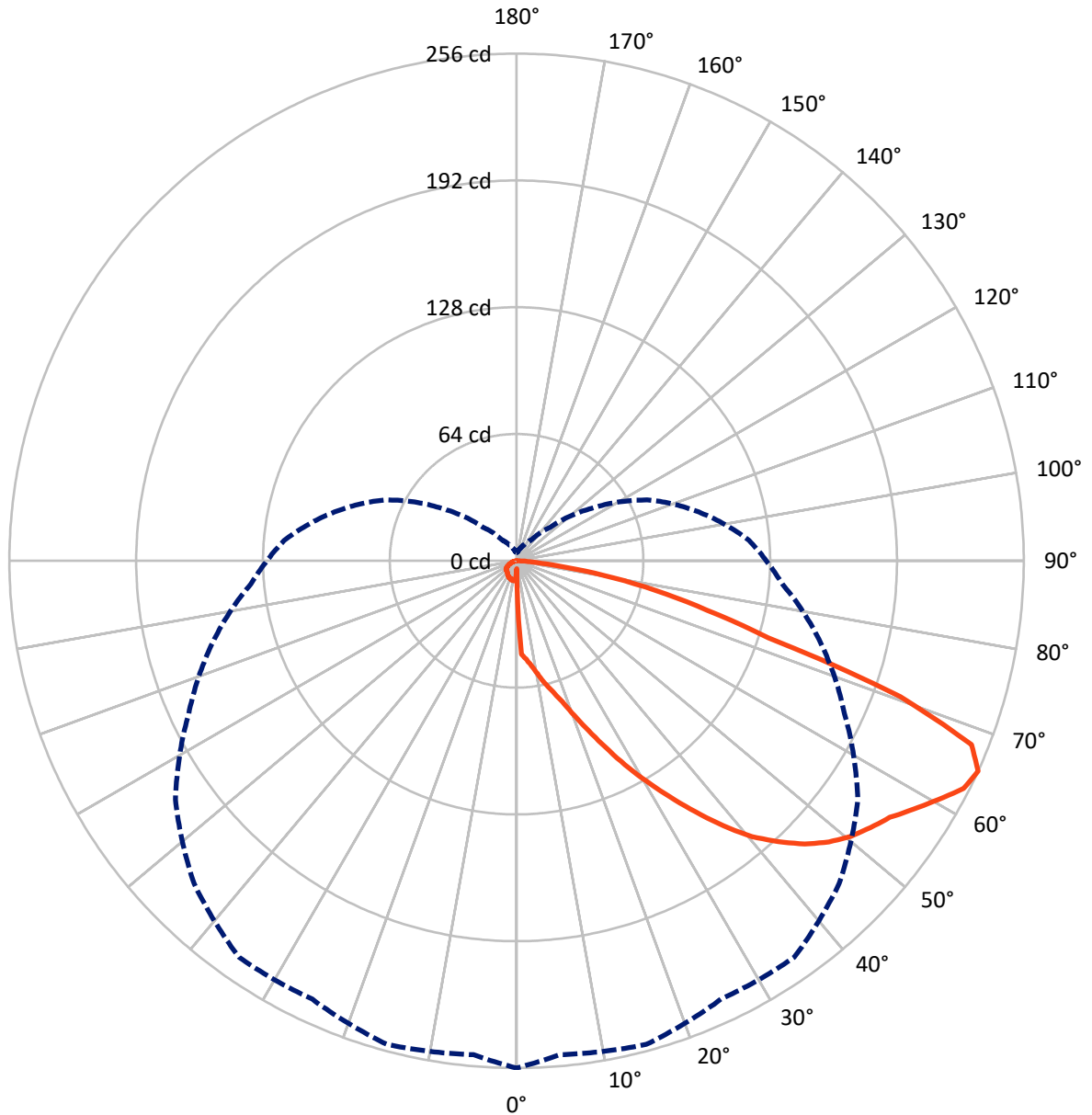
✕ Max cd  
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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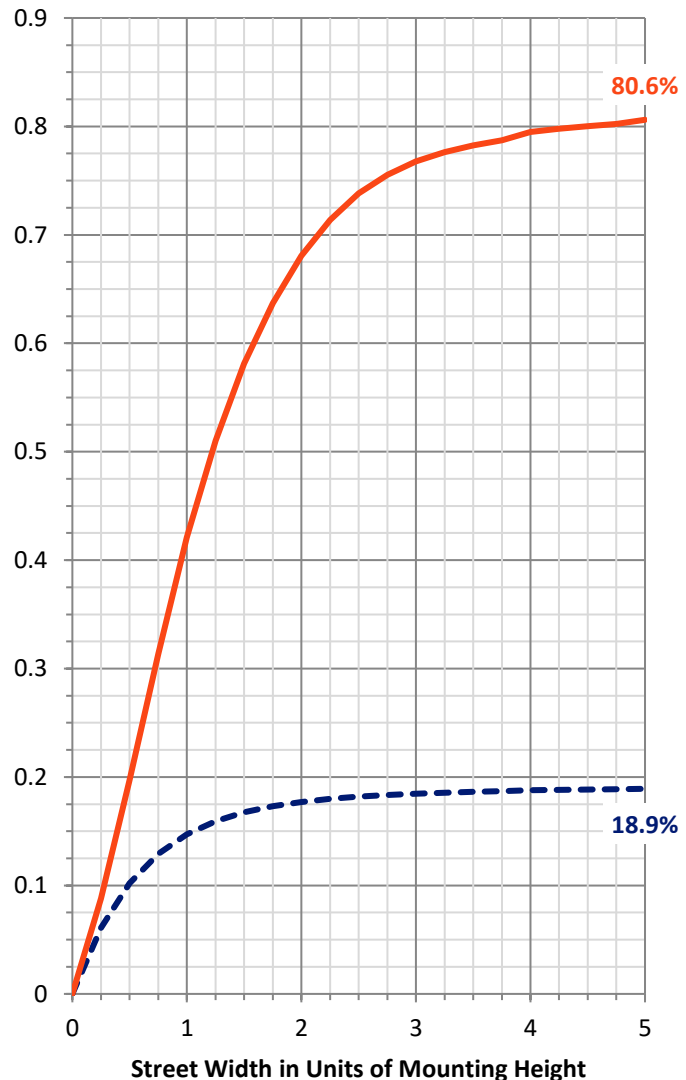
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	88.8	0.0	88.8
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	378.2	0.0	378.2
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	467.0	0.0	467.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.8	0.6
10°-20°	11.5	2.5
20°-30°	26.7	5.7
30°-40°	52.5	11.2
40°-50°	82.3	17.6
50°-60°	108.0	23.1
60°-70°	121.1	25.9
70°-80°	55.3	11.8
80°-90°	6.9	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°	467.0	100.0
0°-180°	467.0	100.0

**Coefficient of Utilization**



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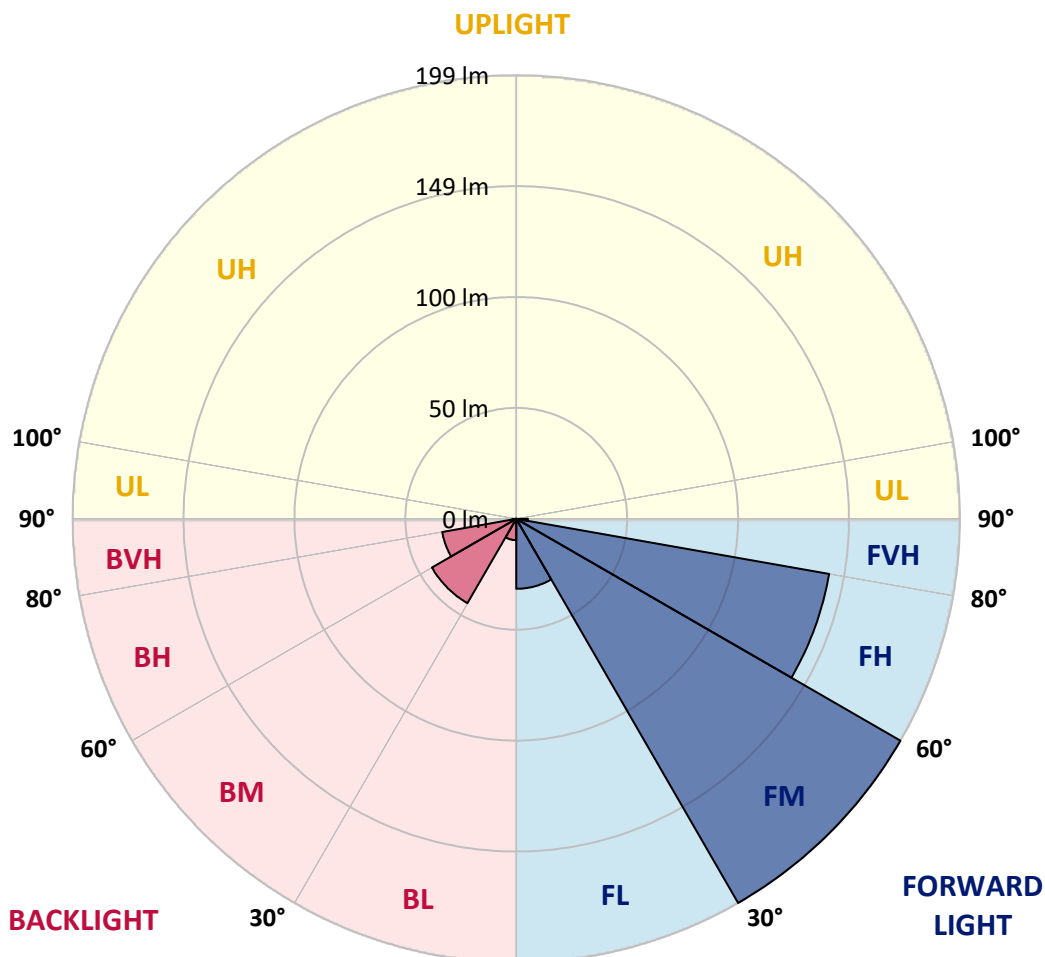
CATALOG NUMBER: BRT6-A1-727-U-T4-XX-BK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	31.4	6.7			
FM	(30°-60°)	199.1	42.6			
FH	(60°-80°)	142.6	30.5			G0/660
FVH	(80°-90°)	5.2	1.1			G0/10
BL	(0°-30°)	9.6	2.1	B0/110		
BM	(30°-60°)	43.7	9.4	B0/220		
BH	(60°-80°)	33.8	7.2	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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2.5°	47.2	46.3	43.3	40.5	37.7	33.9	31.8	29.0	26.2	23.6	23.4
5°	49.8	49.6	49.6	45.8	44.4	40.7	38.6	35.3	33.0	29.5	28.3
7.5°	53.3	53.3	53.3	51.9	48.6	45.8	43.3	38.8	36.5	32.0	31.3
10°	58.0	58.0	57.8	57.3	53.3	51.2	47.0	43.0	40.0	35.3	33.7
12.5°	63.4	63.2	62.7	62.0	57.8	56.1	51.5	47.7	43.5	38.1	36.3
15°	68.5	68.8	68.3	67.4	63.4	61.3	56.1	52.6	47.2	41.6	39.1
17.5°	74.8	75.1	74.1	73.4	69.7	67.1	61.7	57.8	51.7	45.8	42.8
20°	83.3	82.8	82.1	81.4	77.2	73.9	68.1	64.1	57.3	50.8	47.0
22.5°	93.1	92.6	92.2	90.8	85.6	82.8	75.8	71.1	63.2	56.1	51.9
25°	104.3	104.6	102.7	102.0	95.9	93.1	84.7	79.3	70.4	62.2	57.3
27.5°	116.7	116.9	115.1	114.1	108.3	104.6	95.9	88.9	78.1	68.8	63.6
30°	129.1	129.6	128.6	127.7	120.9	116.9	106.7	98.9	86.8	75.8	69.7
32.5°	142.0	142.9	141.3	141.5	135.0	130.3	119.1	109.9	96.8	83.7	76.7
35°	155.8	156.5	155.3	155.5	148.8	144.3	131.4	120.9	106.4	91.7	84.2
37.5°	169.8	169.8	168.9	169.1	161.6	156.2	142.2	132.1	115.3	99.2	91.2
40°	183.1	183.1	182.2	180.8	174.5	167.0	154.1	141.3	124.0	105.0	96.4
42.5°	193.9	193.7	192.0	191.3	184.8	177.1	164.4	149.5	131.0	110.9	101.3
45°	204.0	203.7	200.9	200.4	194.1	186.4	173.3	157.9	136.8	115.8	106.0
47.5°	212.1	212.1	209.3	209.1	202.3	195.1	180.8	164.9	142.4	121.2	109.5
50°	218.7	218.7	215.6	216.8	207.9	203.3	187.1	171.2	148.1	125.6	113.9
52.5°	223.8	224.8	222.0	223.6	214.0	210.7	193.4	176.4	153.0	129.6	117.9
55°	228.7	230.9	227.8	229.7	219.6	217.8	199.5	181.7	157.2	132.6	121.9
57.5°	236.5	237.4	234.6	234.8	225.7	222.9	205.4	185.9	160.9	135.2	124.4
60°	244.7	244.0	242.3	239.3	233.4	228.3	210.0	188.5	164.0	137.8	127.0
62.5°	253.3	248.4	249.1	243.5	240.4	231.6	212.8	189.0	164.2	138.7	128.4
65°	256.1	250.3	252.8	244.2	244.4	230.4	210.3	182.7	158.8	134.7	126.1
67.5°	247.7	242.3	247.5	233.4	239.5	216.1	194.8	162.3	143.8	122.3	116.7
70°	205.6	196.0	205.1	189.2	196.0	165.4	143.8	113.0	104.1	90.3	88.9
72.5°	132.9	138.5	141.5	136.8	127.0	107.8	86.3	72.5	73.4	62.2	64.8
75°	99.2	99.2	98.9	94.7	91.2	71.8	55.2	49.6	52.4	46.1	44.4
77.5°	71.8	70.2	66.4	66.4	64.1	45.4	38.1	35.6	36.0	33.7	31.3
80°	44.7	47.5	42.8	42.8	39.1	27.6	23.9	23.4	21.8	19.9	19.4
82.5°	20.8	22.7	20.6	21.3	17.5	13.6	11.9	11.2	9.6	8.7	8.9
85°	7.5	7.0	6.3	6.3	5.6	4.4	4.0	3.7	3.0	3.0	3.0
87.5°	3.3	3.0	2.8	2.8	2.6	2.3	2.3	1.9	1.4	1.2	0.9
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°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
2.5°	22.2	19.2	17.3	14.5	13.1	10.1	9.1	6.1	7.3	7.5
5°	26.0	23.9	20.1	18.5	14.7	13.3	10.3	9.1	9.4	9.8
7.5°	29.7	25.5	22.9	19.6	16.1	14.0	11.5	10.1	10.5	10.1
10°	32.3	27.1	24.6	20.3	17.5	14.3	11.5	10.8	11.0	10.1
12.5°	34.6	29.2	25.7	21.1	18.0	14.5	11.9	11.0	11.0	10.1
15°	37.4	31.1	27.1	21.8	18.5	14.5	12.2	10.8	10.8	9.8
17.5°	40.5	33.7	29.0	22.7	18.7	14.5	11.9	10.5	10.8	9.6
20°	44.4	36.5	30.9	23.9	19.2	14.5	11.9	10.3	10.5	9.4
22.5°	48.2	39.5	32.7	25.0	19.6	14.5	11.7	9.8	10.3	9.4
25°	53.1	43.0	35.3	26.4	20.3	14.5	11.5	9.6	9.8	9.1
27.5°	58.5	47.0	38.4	28.1	21.3	14.5	11.2	9.1	9.4	8.9
30°	64.6	51.7	41.2	30.2	22.2	15.0	11.0	8.9	9.1	8.7
32.5°	70.6	56.1	44.2	32.0	23.6	15.4	11.0	8.7	8.7	8.4
35°	77.2	60.8	47.2	34.1	24.8	15.9	11.0	8.4	8.4	8.0
37.5°	82.8	65.5	50.5	36.3	26.2	16.6	11.2	8.4	8.0	7.7
40°	88.4	69.5	53.3	38.1	27.4	17.1	11.5	8.4	7.7	7.3
42.5°	92.6	72.7	55.7	39.5	28.3	17.8	11.7	8.4	7.7	7.3
45°	96.6	75.8	57.3	40.7	29.0	18.5	12.2	8.4	7.5	7.0
47.5°	99.9	78.4	58.7	41.4	29.2	18.9	12.6	8.7	7.5	7.0
50°	103.1	80.9	59.6	41.9	28.8	19.2	12.9	8.9	7.3	7.0
52.5°	106.4	83.0	60.6	42.3	27.8	18.7	12.6	8.9	7.0	6.8
55°	109.5	85.6	61.3	42.3	26.7	18.0	12.4	8.7	6.5	6.3
57.5°	112.5	87.9	62.4	42.3	25.5	16.8	11.7	8.2	6.3	5.8
60°	116.0	91.0	64.6	42.8	23.9	15.7	10.8	7.7	5.8	5.4
62.5°	118.4	94.0	68.3	43.7	22.9	14.3	9.8	7.0	5.1	4.7
65°	117.9	95.2	72.7	46.1	23.9	12.9	8.9	6.3	4.4	4.2
67.5°	110.4	91.5	75.5	47.0	27.1	11.5	7.7	5.6	4.0	3.5
70°	89.3	80.9	70.2	50.5	27.8	10.3	7.0	4.7	3.5	3.0
72.5°	62.0	61.5	54.3	48.6	27.1	10.1	6.3	4.0	3.0	2.6
75°	46.3	41.4	44.2	38.1	25.3	10.5	5.6	3.3	2.3	2.1
77.5°	32.5	29.5	30.2	28.1	20.6	9.6	4.7	2.6	1.9	1.6
80°	20.1	17.8	18.9	16.6	13.6	7.3	3.5	1.9	1.2	1.2
82.5°	9.4	7.5	8.0	7.0	6.3	3.7	1.9	1.2	0.7	0.7
85°	2.8	2.1	2.1	1.6	1.4	1.4	0.9	0.5	0.5	0.2
87.5°	0.9	0.7	0.7	0.5	0.2	0.2	0.2	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

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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 0-Deg Lateral

- - - Horizontal Cone Through 65-Deg Vertical



--- HS — SS



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0°

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

Scaled Data Report





(END OF REPORT)