

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: P413355

Luminaire Tested: **BRT6-AX-AMB-U-T5S-XX-BK**

Issue Date: 8/18/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P413355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-849-4,G3-2010-988-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/18/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: BRT6-AX-AMB-U-T5S-XX-BK  
Description: BOLLARD 6INCH ROUND BASE, TYPE V SQUARE SYMMETRICAL, AMBER, BLACK FINISH  
Light Source: (16) 1620K CCT, 0 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 676 lumens  
Efficiency: N/A  
Efficacy: 26.6 lumens/watt  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G0

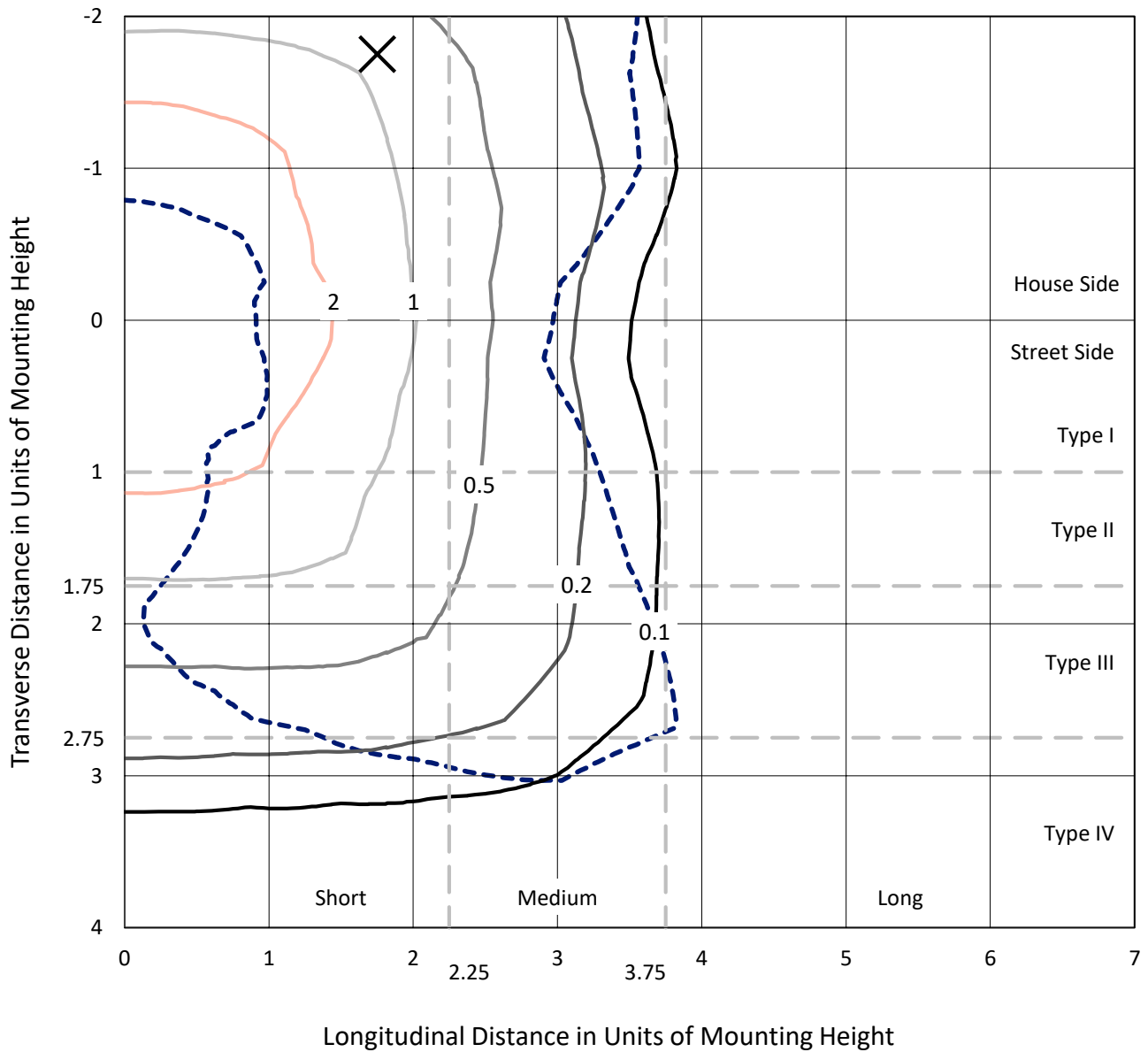
Input Watts (W): 25.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

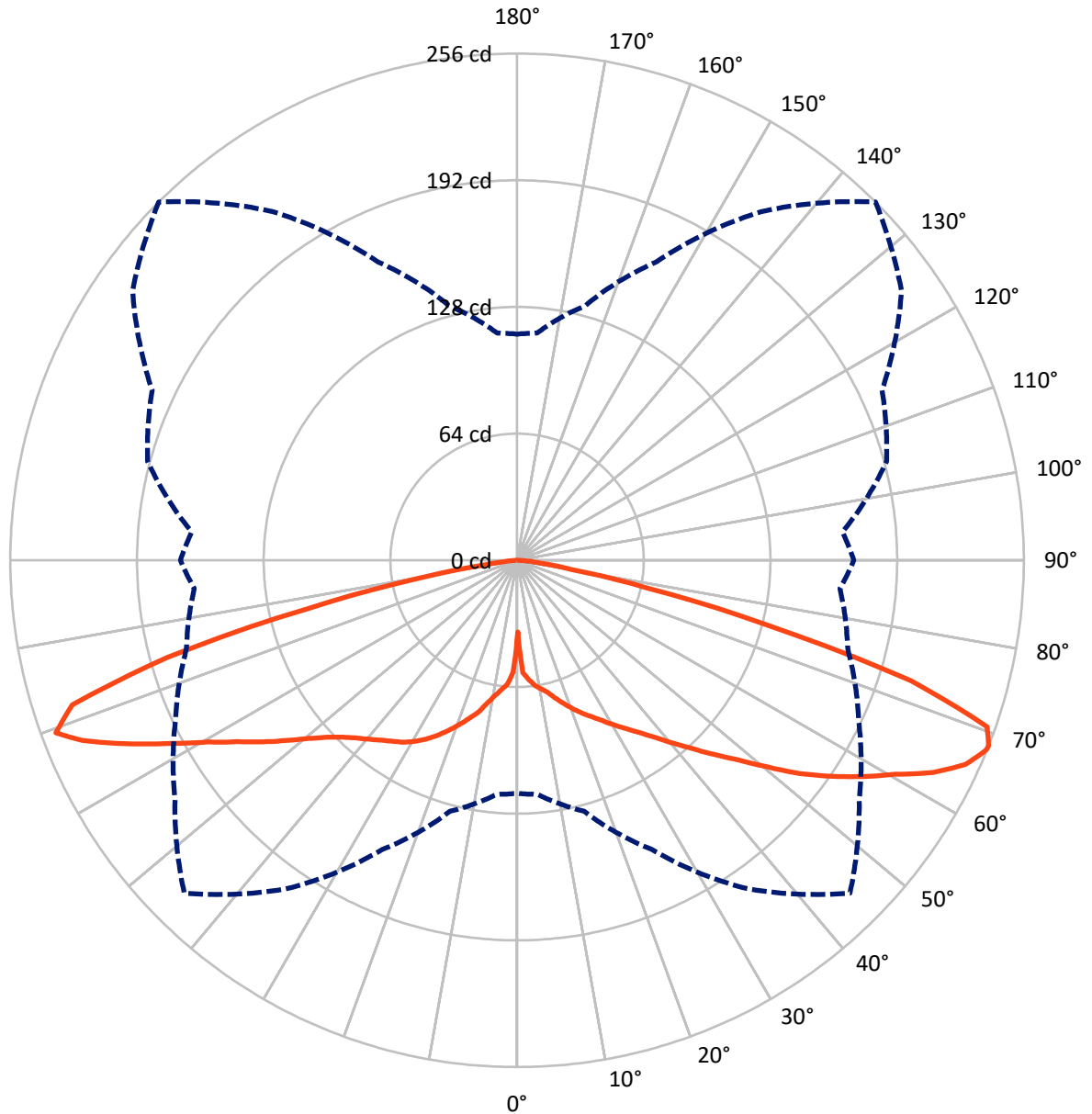
× Max cd  
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 4.8 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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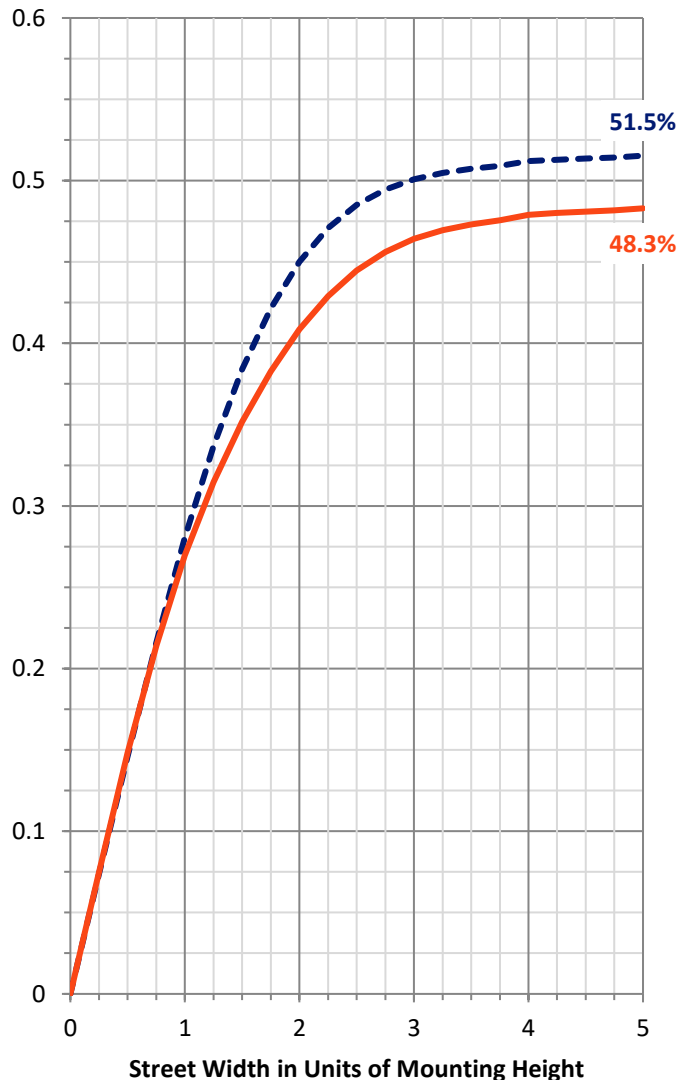
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	348.9	0.0	348.9
	% Fixture	51.6	0.0	51.6
<b>Street Side</b>	Lumens	327.1	0.0	327.1
	% Fixture	48.4	0.0	48.4
<b>Total</b>	Lumens	676.0	0.0	676.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.9	0.9
10°-20°	20.9	3.1
20°-30°	41.7	6.2
30°-40°	68.9	10.2
40°-50°	102.3	15.1
50°-60°	143.5	21.2
60°-70°	179.1	26.5
70°-80°	104.5	15.5
80°-90°	9.3	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°	676.0	100.0
0°-180°	676.0	100.0

**Coefficient of Utilization**



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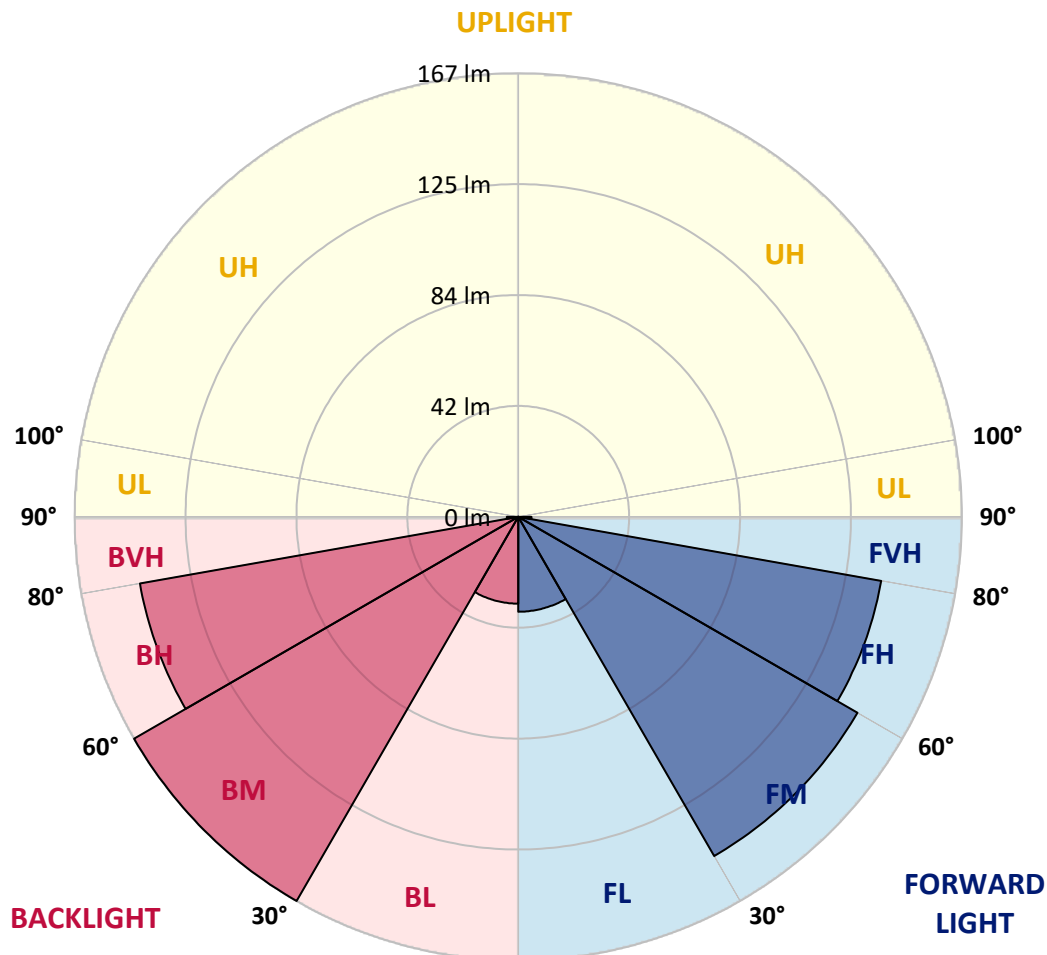
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	35.8	5.3			
FM (30°-60°)	147.6	21.8			
FH (60°-80°)	138.8	20.5			G0/660
FVH (80°-90°)	5.0	0.7			G0/10
BL (0°-30°)	32.7	4.8	B0/110		
BM (30°-60°)	167.1	24.7	B0/220		
BH (60°-80°)	144.7	21.4	B1/500		G0/660
BVH (80°-90°)	4.3	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°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
2.5°	51.1	51.5	55.9	56.8	55.7	56.2	55.2	55.6	54.2	55.2	54.4
5°	63.9	60.2	60.3	64.9	63.4	62.7	60.5	61.9	58.5	60.3	59.8
7.5°	68.2	64.9	64.6	69.0	68.7	65.9	64.9	64.1	62.6	62.2	62.1
10°	72.3	72.3	69.8	72.9	72.8	69.5	68.3	66.6	65.3	63.7	63.4
12.5°	76.3	76.1	75.6	76.8	77.5	73.9	71.7	69.0	68.3	65.4	65.1
15°	81.1	80.7	80.4	80.9	82.5	79.5	75.1	72.1	70.9	67.3	66.6
17.5°	86.5	86.3	86.0	86.2	87.4	83.6	78.7	75.6	73.6	69.3	68.5
20°	91.3	90.9	91.1	91.5	92.8	88.1	82.1	79.7	76.7	72.3	70.7
22.5°	95.7	95.7	95.8	96.2	98.1	92.6	86.5	84.1	80.2	75.3	73.4
25°	99.9	99.9	100.6	100.9	102.8	97.1	90.7	88.6	84.3	78.9	76.7
27.5°	104.4	104.0	104.2	104.7	107.1	101.3	94.8	92.6	88.4	83.3	81.1
30°	108.1	107.8	107.9	108.5	111.1	105.0	98.8	96.2	92.6	89.4	87.4
32.5°	111.3	111.0	111.0	111.6	114.6	108.3	102.2	99.8	97.6	97.2	95.2
35°	114.2	113.7	114.2	114.6	117.3	110.8	104.5	103.0	102.3	104.9	103.2
37.5°	116.7	116.2	117.1	116.7	119.5	113.7	106.8	106.2	107.6	112.7	111.3
40°	118.6	118.5	120.2	119.3	121.8	117.0	109.8	110.1	113.4	120.8	119.8
42.5°	117.5	117.6	120.7	121.7	124.3	120.7	113.7	115.1	119.8	130.0	128.5
45°	115.4	116.1	119.7	123.1	127.2	125.1	119.0	120.5	127.2	139.2	137.9
47.5°	111.6	112.4	118.0	123.1	130.2	130.9	124.3	127.2	135.1	148.4	147.1
50°	110.1	110.8	116.7	123.4	133.8	138.4	131.2	135.0	142.6	156.7	155.9
52.5°	111.1	112.5	118.0	125.8	138.7	147.6	137.6	142.7	150.3	164.4	164.0
55°	114.4	115.1	121.6	130.5	146.0	157.8	145.8	150.9	157.8	171.3	171.5
57.5°	118.5	119.0	126.3	137.1	154.7	168.1	154.3	160.3	163.9	176.9	177.6
60°	123.9	124.4	132.8	145.7	164.9	180.7	164.7	170.5	168.5	181.2	182.4
62.5°	128.2	128.7	138.0	154.5	177.8	196.8	176.8	178.9	171.3	182.4	184.6
65°	126.3	126.8	138.5	161.0	190.9	215.2	192.1	185.1	173.3	178.2	182.2
67.5°	120.2	121.0	132.9	162.1	200.7	233.9	207.9	189.5	173.3	167.4	172.7
68°	117.6	118.6	131.2	161.1	202.3	237.6	210.8	190.2	172.8	163.6	170.0
70°	104.4	105.0	118.3	151.1	203.3	248.6	222.0	190.7	166.7	144.5	151.8
72.5°	66.3	67.5	77.0	109.5	170.3	236.1	220.0	173.1	142.1	105.5	109.0
75°	34.7	34.2	39.6	58.3	107.1	182.9	188.0	135.1	103.0	59.5	60.8
77.5°	18.2	17.7	19.5	27.5	52.4	109.0	137.1	97.2	63.7	30.1	32.5
80°	11.9	11.6	11.9	14.9	21.4	52.2	81.4	59.6	36.9	12.7	12.9
82.5°	8.7	7.8	8.3	9.3	11.4	15.8	28.7	24.5	15.9	5.2	5.7
85°	4.7	4.2	4.1	5.5	5.2	5.7	4.6	3.7	3.1	2.0	2.0
87.5°	2.7	1.7	1.4	1.7	1.4	1.4	1.2	1.0	1.2	0.9	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°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
2.5°	54.7	56.1	55.6	55.4	56.8	57.0	57.0	54.7	52.7	54.2
5°	58.6	59.6	59.6	60.5	60.3	61.0	60.3	56.6	57.8	56.5
7.5°	62.4	61.4	62.6	62.2	63.7	62.4	61.7	58.8	59.0	60.7
10°	64.1	62.9	64.2	63.7	65.9	64.9	63.6	60.8	60.7	62.6
12.5°	66.1	64.4	66.5	65.8	68.3	67.8	66.1	63.6	63.6	65.3
15°	68.2	66.3	69.0	68.5	72.1	71.6	69.8	67.2	68.0	69.0
17.5°	70.0	68.5	72.1	71.7	76.0	75.6	74.1	71.6	72.8	73.1
20°	72.4	71.0	75.4	75.6	79.9	80.0	78.2	76.5	77.4	77.9
22.5°	75.4	74.8	79.7	79.2	83.8	84.5	83.0	81.9	82.8	83.5
25°	79.5	79.4	83.8	83.0	87.4	89.4	87.9	87.9	89.1	89.7
27.5°	85.5	84.3	88.1	87.0	91.6	94.8	93.7	94.7	95.5	96.4
30°	92.3	89.7	92.3	91.3	96.4	100.4	100.1	101.4	102.8	103.7
32.5°	99.9	95.5	96.6	95.5	101.3	106.2	106.8	109.1	110.5	111.0
35°	108.3	101.4	101.3	100.3	106.9	113.0	114.4	117.5	118.3	119.0
37.5°	116.5	107.4	106.5	105.9	113.5	120.7	121.7	125.6	125.8	125.9
40°	124.3	114.1	113.2	112.9	121.3	128.0	130.0	133.3	133.3	132.8
42.5°	131.9	120.7	120.8	120.7	129.9	136.5	138.2	140.2	139.4	139.2
45°	140.6	126.9	129.5	129.9	139.9	145.3	145.5	147.1	146.7	146.3
47.5°	149.7	133.4	139.2	139.4	150.6	155.5	153.7	154.5	154.2	153.4
50°	159.3	140.6	148.7	149.7	164.0	165.5	161.8	162.0	161.5	160.4
52.5°	167.4	148.7	157.8	160.4	178.8	177.9	171.0	169.6	168.1	166.4
55°	175.1	157.4	166.7	172.2	192.4	189.5	180.2	176.4	172.3	171.3
57.5°	180.3	165.0	176.1	182.2	206.0	201.6	188.1	180.0	172.5	170.8
60°	182.7	173.1	187.0	193.6	219.3	211.9	193.4	178.9	168.7	166.6
62.5°	180.7	180.2	195.5	206.7	235.8	219.8	193.2	173.2	159.4	157.0
65°	175.6	186.8	201.4	221.1	248.6	221.5	186.1	159.4	142.0	139.2
67.5°	166.7	192.4	203.3	234.6	255.5	217.0	171.0	137.1	120.2	118.0
68°	164.9	193.1	203.3	236.9	255.8	214.9	166.2	133.1	115.1	114.2
70°	151.8	192.7	202.8	245.6	251.7	195.3	140.9	104.9	91.3	88.1
72.5°	118.0	170.8	183.8	229.3	208.0	136.3	85.5	58.6	51.9	48.9
75°	71.7	125.3	136.5	172.8	130.2	73.4	46.0	32.1	28.9	28.9
77.5°	39.3	78.2	91.3	116.1	66.8	39.1	25.6	19.0	18.0	19.2
80°	15.9	41.5	54.2	55.7	27.5	19.4	16.2	11.9	11.7	12.2
82.5°	6.1	16.3	18.0	14.3	11.9	11.4	10.2	8.0	7.6	9.0
85°	2.0	3.1	3.7	3.9	6.0	6.3	6.8	4.7	4.6	6.0
87.5°	1.0	1.2	1.0	1.2	1.4	1.4	1.4	1.4	1.5	2.9
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



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0°

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

Scaled Data Report





(END OF REPORT)