

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-A1-830-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-A1-830-U-T5S-XX-BK  
Description: BOLLARD 6INCH ROUND BASE, 1000LM, TYPE V SQUARE SYMMETRICAL, BLACK FINISH  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 894 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G0

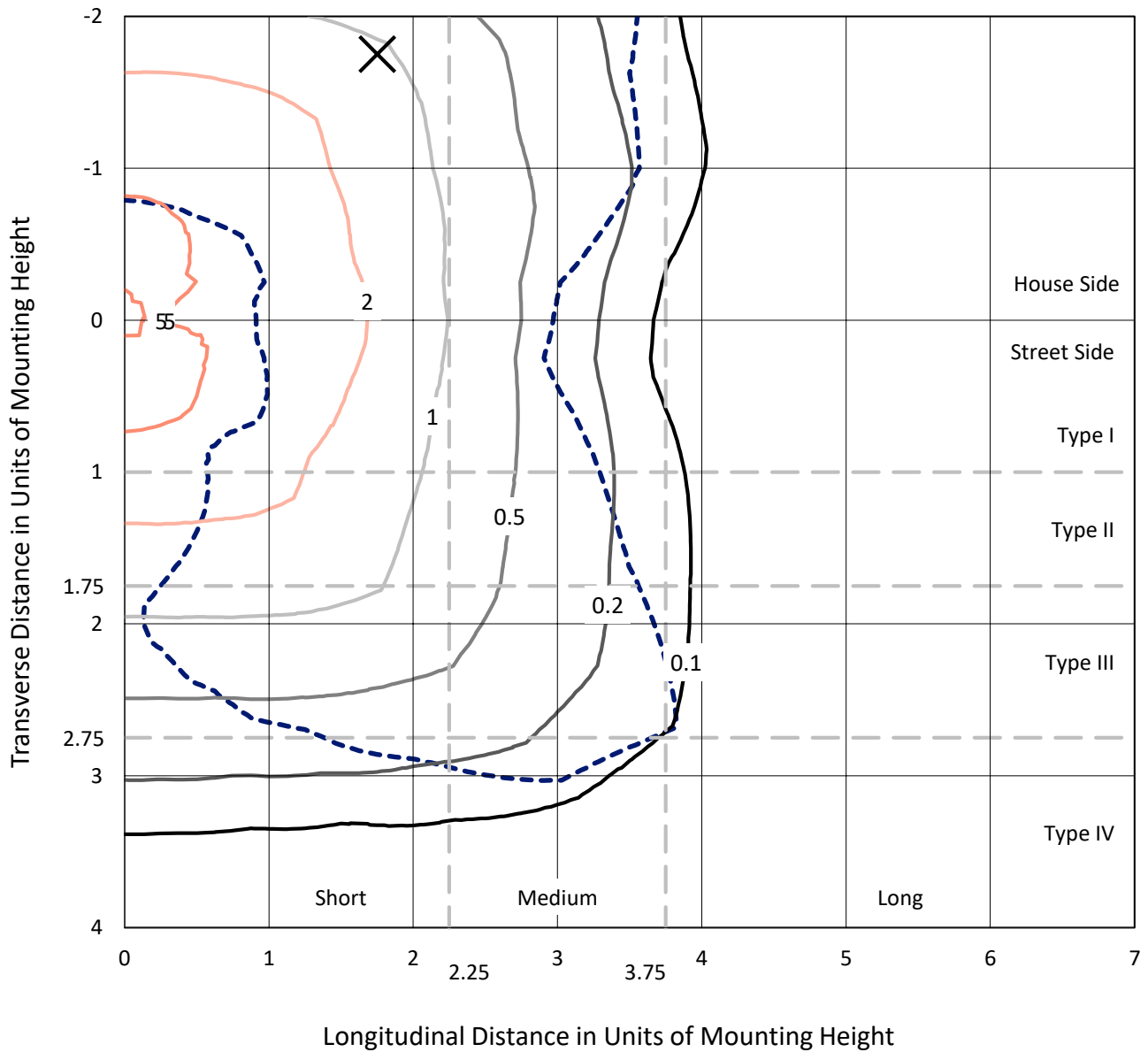
Input Watts (W): 10.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

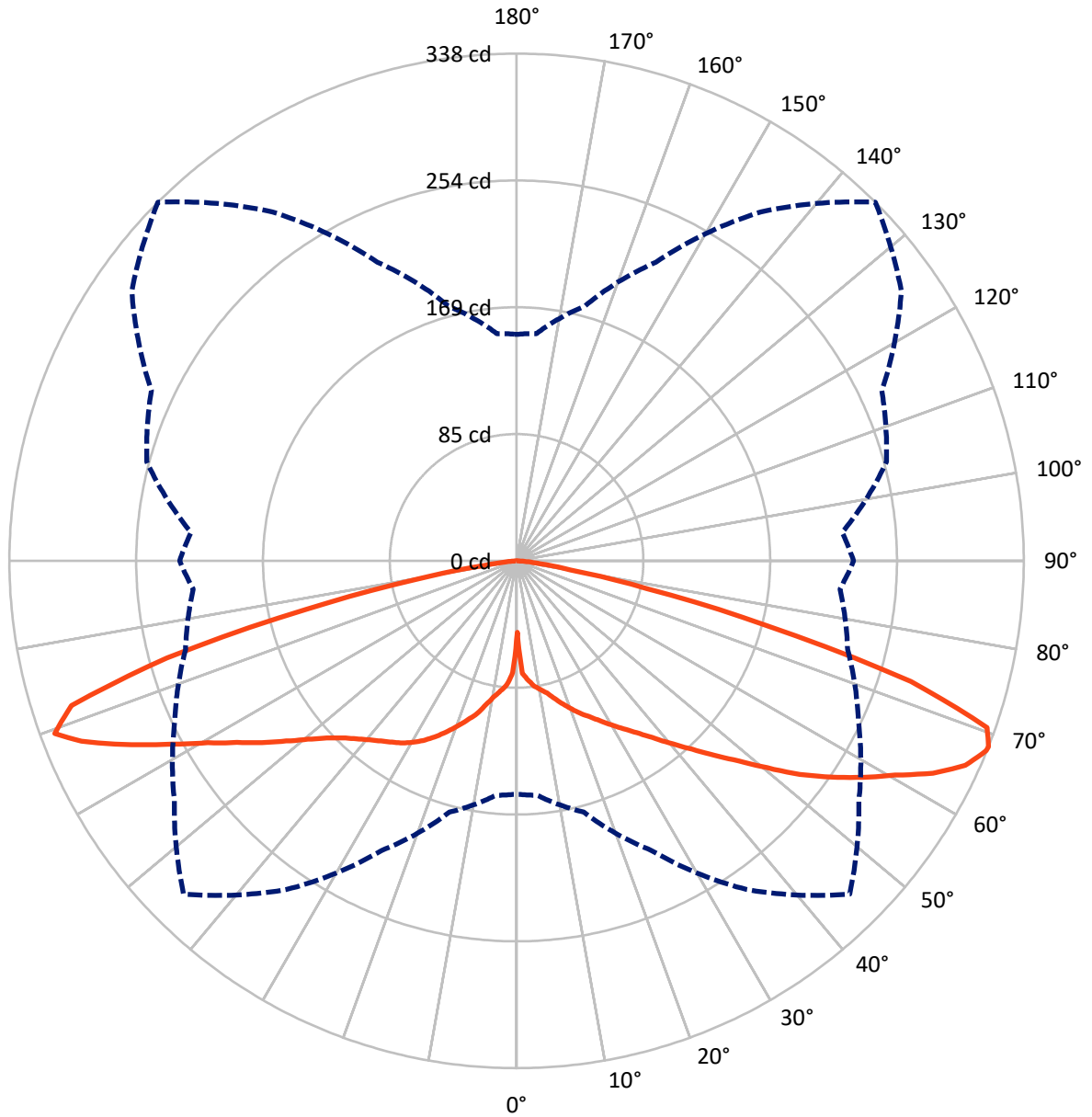
✕ Max cd  
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 6.3 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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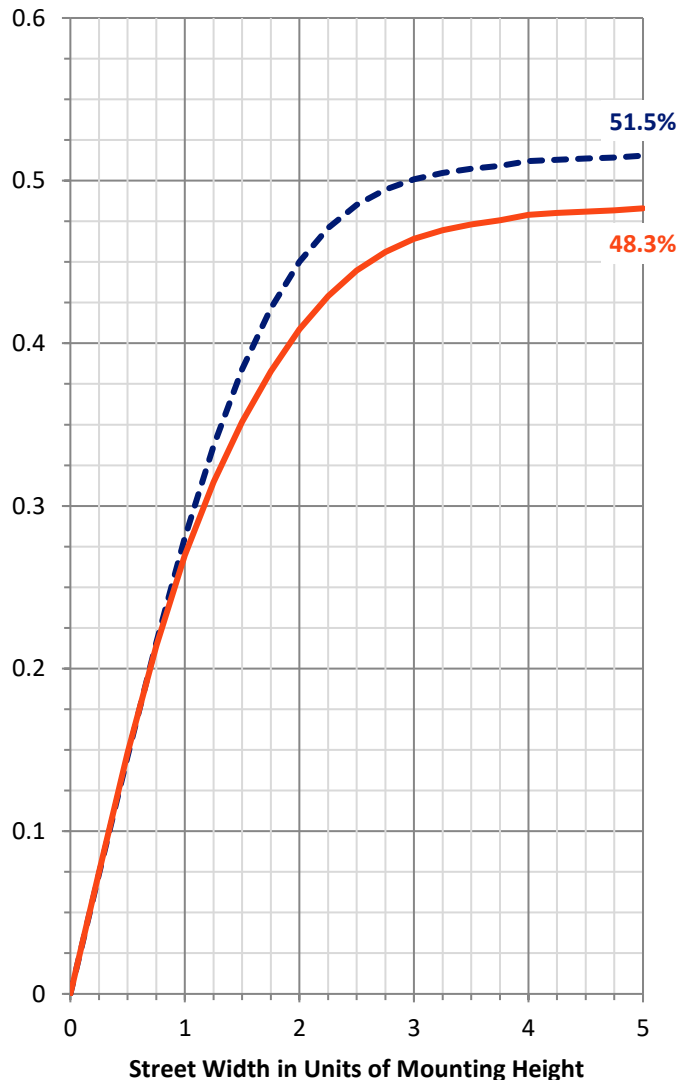
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	461.4	0.0	461.4
	% Fixture	51.6	0.0	51.6
<b>Street Side</b>	Lumens	432.6	0.0	432.6
	% Fixture	48.4	0.0	48.4
<b>Total</b>	Lumens	894.0	0.0	894.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.8	0.9
10°-20°	27.6	3.1
20°-30°	55.2	6.2
30°-40°	91.1	10.2
40°-50°	135.3	15.1
50°-60°	189.8	21.2
60°-70°	236.8	26.5
70°-80°	138.2	15.5
80°-90°	12.2	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°	894.0	100.0
0°-180°	894.0	100.0

**Coefficient of Utilization**



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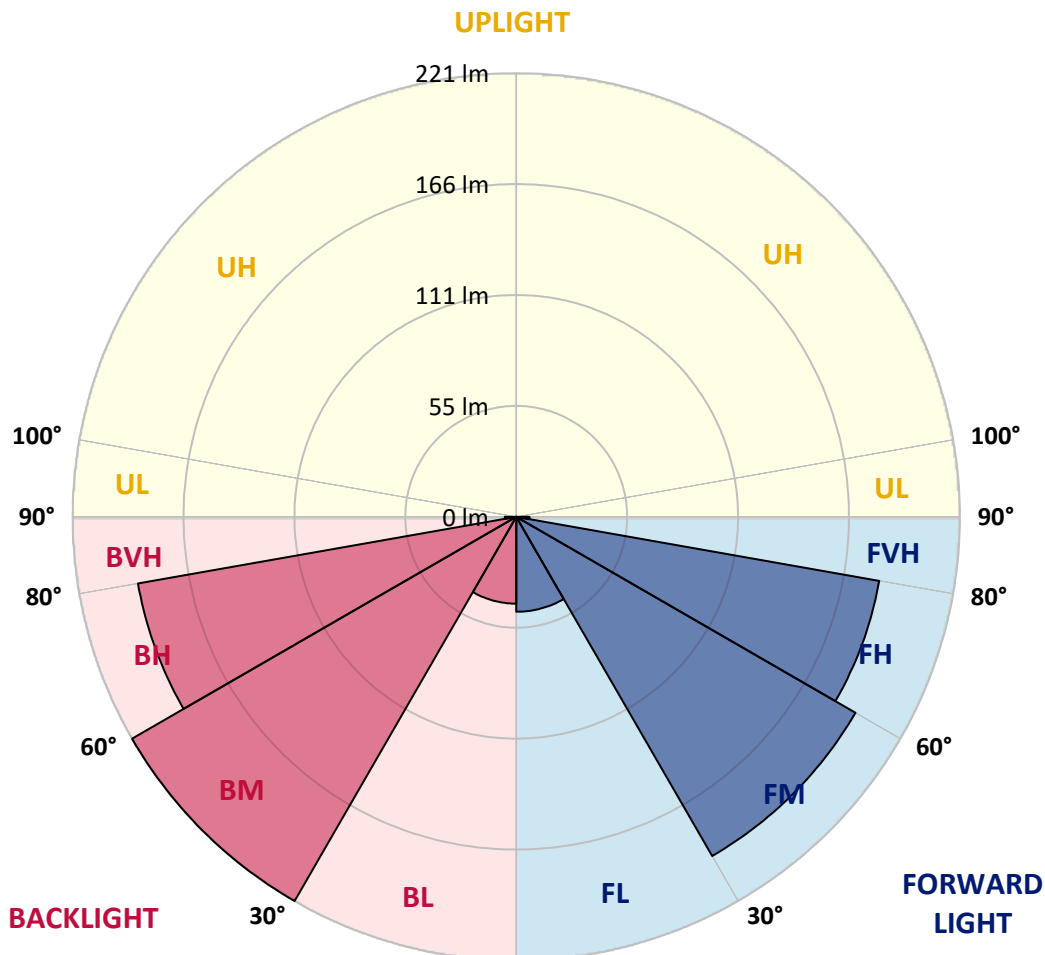
CATALOG NUMBER: BRT6-A1-830-U-T5S-XX-BK

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	47.3	5.3			
FM	(30°-60°)	195.1	21.8			
FH	(60°-80°)	183.6	20.5			G0/660
FVH	(80°-90°)	6.6	0.7			G0/10
BL	(0°-30°)	43.3	4.8	B0/110		
BM	(30°-60°)	221.0	24.7	B1/1000		
BH	(60°-80°)	191.4	21.4	B1/500		G0/660
BVH	(80°-90°)	5.7	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°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
2.5°	67.7	68.1	74.0	75.1	73.7	74.4	73.1	73.5	71.7	73.1	71.9
5°	84.5	79.6	79.8	85.9	83.8	82.9	80.0	81.8	77.3	79.8	79.1
7.5°	90.1	85.9	85.4	91.3	90.8	87.2	85.9	84.7	82.7	82.3	82.0
10°	95.5	95.5	92.4	96.4	96.2	91.9	90.4	88.1	86.3	84.3	83.8
12.5°	100.9	100.7	100.0	101.6	102.5	97.8	94.9	91.3	90.4	86.5	86.1
15°	107.2	106.8	106.3	107.0	109.0	105.2	99.4	95.3	93.7	89.0	88.1
17.5°	114.4	114.2	113.7	114.0	115.5	110.6	104.1	100.0	97.3	91.7	90.6
20°	120.7	120.3	120.5	120.9	122.7	116.4	108.6	105.4	101.4	95.5	93.5
22.5°	126.6	126.6	126.8	127.2	129.7	122.5	114.4	111.3	106.1	99.6	97.1
25°	132.2	132.2	133.1	133.5	136.0	128.4	120.0	117.1	111.5	104.3	101.4
27.5°	138.0	137.6	137.8	138.5	141.6	134.0	125.4	122.5	116.9	110.1	107.2
30°	143.0	142.5	142.7	143.4	147.0	138.9	130.6	127.2	122.5	118.2	115.5
32.5°	147.2	146.8	146.8	147.7	151.5	143.2	135.1	131.9	129.0	128.6	125.9
35°	151.1	150.4	151.1	151.5	155.1	146.6	138.2	136.2	135.3	138.7	136.4
37.5°	154.4	153.8	154.9	154.4	158.0	150.4	141.2	140.5	142.3	149.0	147.2
40°	156.9	156.7	158.9	157.8	161.2	154.6	145.2	145.7	149.9	159.8	158.5
42.5°	155.3	155.5	159.6	160.9	164.3	159.6	150.4	152.2	158.5	172.0	169.9
45°	152.6	153.5	158.2	162.7	168.1	165.4	157.3	159.4	168.1	184.1	182.3
47.5°	147.7	148.6	156.0	162.7	172.2	173.1	164.3	168.1	178.7	196.2	194.4
50°	145.7	146.6	154.4	163.2	176.9	183.0	173.5	178.5	188.6	207.2	206.1
52.5°	147.0	148.8	156.0	166.3	183.4	195.1	182.1	188.8	198.7	217.4	216.9
55°	151.3	152.2	160.7	172.6	193.1	208.6	192.9	199.6	208.6	226.6	226.8
57.5°	156.7	157.3	167.0	181.4	204.6	222.3	204.1	212.0	216.7	234.0	234.9
60°	163.9	164.5	175.6	192.6	218.0	238.9	217.8	225.5	222.8	239.6	241.2
62.5°	169.5	170.2	182.5	204.3	235.1	260.3	233.8	236.7	226.6	241.2	244.1
65°	167.0	167.7	183.2	212.9	252.4	284.6	254.0	244.8	229.3	235.6	241.0
67.5°	158.9	160.0	175.8	214.4	265.5	309.3	274.9	250.6	229.3	221.4	228.4
68°	155.5	156.9	173.5	213.1	267.5	314.2	278.7	251.5	228.6	216.5	224.8
70°	138.0	138.9	156.4	199.8	268.8	328.9	293.6	252.2	220.5	191.1	200.7
72.5°	87.7	89.2	101.8	144.8	225.2	312.2	290.9	228.8	187.9	139.6	144.1
75°	45.9	45.2	52.4	77.1	141.6	241.9	248.6	178.7	136.2	78.7	80.5
77.5°	24.1	23.4	25.8	36.4	69.2	144.1	181.4	128.6	84.3	39.8	42.9
80°	15.7	15.3	15.7	19.8	28.3	69.0	107.7	78.9	48.8	16.9	17.1
82.5°	11.5	10.3	11.0	12.4	15.1	20.9	38.0	32.4	21.1	7.0	7.6
85°	6.3	5.6	5.4	7.2	7.0	7.6	6.1	4.9	4.0	2.7	2.7
87.5°	3.6	2.2	1.8	2.2	1.8	1.8	1.6	1.3	1.6	1.1	1.1
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°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
2.5°	72.4	74.2	73.5	73.3	75.1	75.3	75.3	72.4	69.7	71.7
5°	77.5	78.9	78.9	80.0	79.8	80.7	79.8	74.9	76.4	74.6
7.5°	82.5	81.1	82.7	82.3	84.3	82.5	81.6	77.8	78.0	80.2
10°	84.7	83.2	85.0	84.3	87.2	85.9	84.1	80.5	80.2	82.7
12.5°	87.4	85.2	87.9	87.0	90.4	89.7	87.4	84.1	84.1	86.3
15°	90.1	87.7	91.3	90.6	95.3	94.6	92.4	88.8	89.9	91.3
17.5°	92.6	90.6	95.3	94.9	100.5	100.0	98.0	94.6	96.2	96.7
20°	95.8	94.0	99.8	100.0	105.6	105.9	103.4	101.2	102.3	102.9
22.5°	99.8	98.9	105.4	104.7	110.8	111.7	109.7	108.3	109.5	110.4
25°	105.2	105.0	110.8	109.7	115.5	118.2	116.2	116.2	117.8	118.7
27.5°	113.1	111.5	116.4	115.1	121.2	125.4	123.9	125.2	126.3	127.5
30°	122.1	118.7	122.1	120.7	127.5	132.8	132.4	134.2	136.0	137.1
32.5°	132.2	126.3	127.7	126.3	134.0	140.5	141.2	144.3	146.1	146.8
35°	143.2	134.2	134.0	132.6	141.4	149.5	151.3	155.3	156.4	157.3
37.5°	154.0	142.1	140.9	140.0	150.2	159.6	160.9	166.1	166.3	166.6
40°	164.3	150.8	149.7	149.3	160.5	169.3	172.0	176.2	176.2	175.6
42.5°	174.4	159.6	159.8	159.6	171.7	180.5	182.7	185.4	184.3	184.1
45°	185.9	167.9	171.3	171.7	185.0	192.2	192.4	194.4	194.0	193.5
47.5°	198.0	176.5	184.1	184.3	199.2	205.7	203.2	204.3	203.9	203.0
50°	210.6	185.9	196.7	198.0	216.9	218.9	214.0	214.2	213.5	212.2
52.5°	221.4	196.7	208.6	212.2	236.5	235.3	226.1	224.3	222.3	220.1
55°	231.5	208.1	220.5	227.7	254.5	250.6	238.3	233.3	227.9	226.6
57.5°	238.5	218.3	232.9	241.0	272.4	266.6	248.8	238.0	228.2	225.9
60°	241.6	228.8	247.3	256.0	290.0	280.3	255.8	236.7	223.2	220.3
62.5°	238.9	238.3	258.5	273.3	311.8	290.6	255.6	229.1	210.8	207.7
65°	232.2	247.0	266.4	292.4	328.9	292.9	246.1	210.8	187.7	184.1
67.5°	220.5	254.5	268.8	310.2	337.8	287.0	226.1	181.4	158.9	156.0
68°	218.0	255.4	268.8	313.3	338.3	284.1	219.8	176.0	152.2	151.1
70°	200.7	254.9	268.2	324.8	332.9	258.3	186.3	138.7	120.7	116.4
72.5°	156.0	225.9	243.0	303.2	275.1	180.3	113.1	77.5	68.6	64.7
75°	94.9	165.7	180.5	228.6	172.2	97.1	60.9	42.5	38.2	38.2
77.5°	51.9	103.4	120.7	153.5	88.3	51.7	33.9	25.2	23.8	25.4
80°	21.1	54.8	71.7	73.7	36.4	25.6	21.4	15.7	15.5	16.2
82.5°	8.1	21.6	23.8	18.9	15.7	15.1	13.5	10.6	10.1	11.9
85°	2.7	4.0	4.9	5.2	7.9	8.3	9.0	6.3	6.1	7.9
87.5°	1.3	1.6	1.3	1.6	1.8	1.8	1.8	1.8	2.0	3.8
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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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
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)