

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-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-A1-830-U-T4-XX-BK  
Description: BOLLARD 6INCH ROUND BASE, 500LM, WIDE PATH ASYMMETRICAL, BLACK FINISH  
Light Source: (10) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 444 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G0

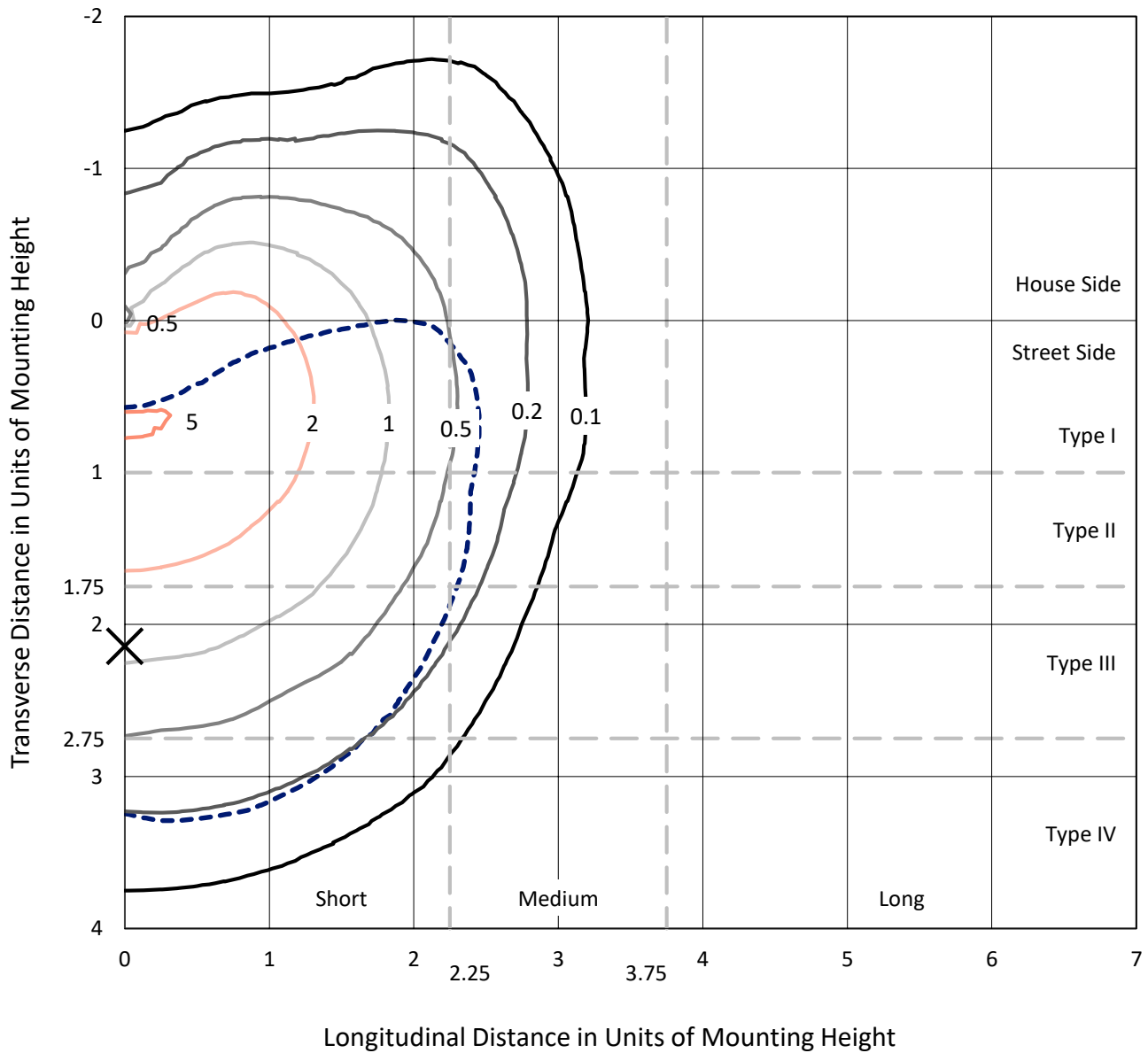
Input Watts (W): 5.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P#  
 CATALOG NUMBER: BRT6-A1-830-U-T4-XX-BK

### Iso-Footcandle Lines of Horizontal Illumination

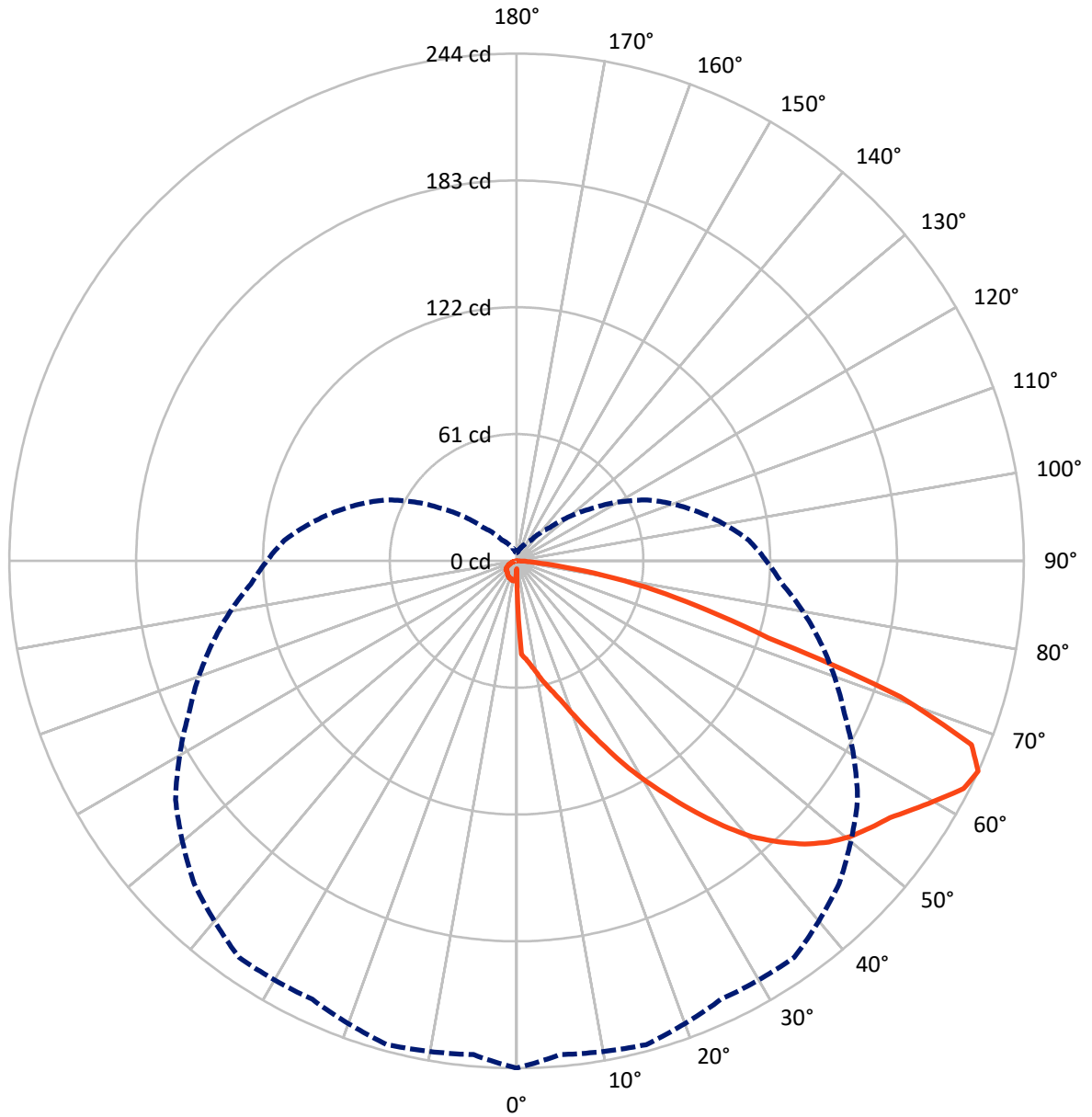
× Max cd  
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P#  
CATALOG NUMBER: BRT6-A1-830-U-T4-XX-BK

### Luminous Intensity Polar Plot



REPORT NUMBER: P#

CATALOG NUMBER: BRT6-A1-830-U-T4-XX-BK

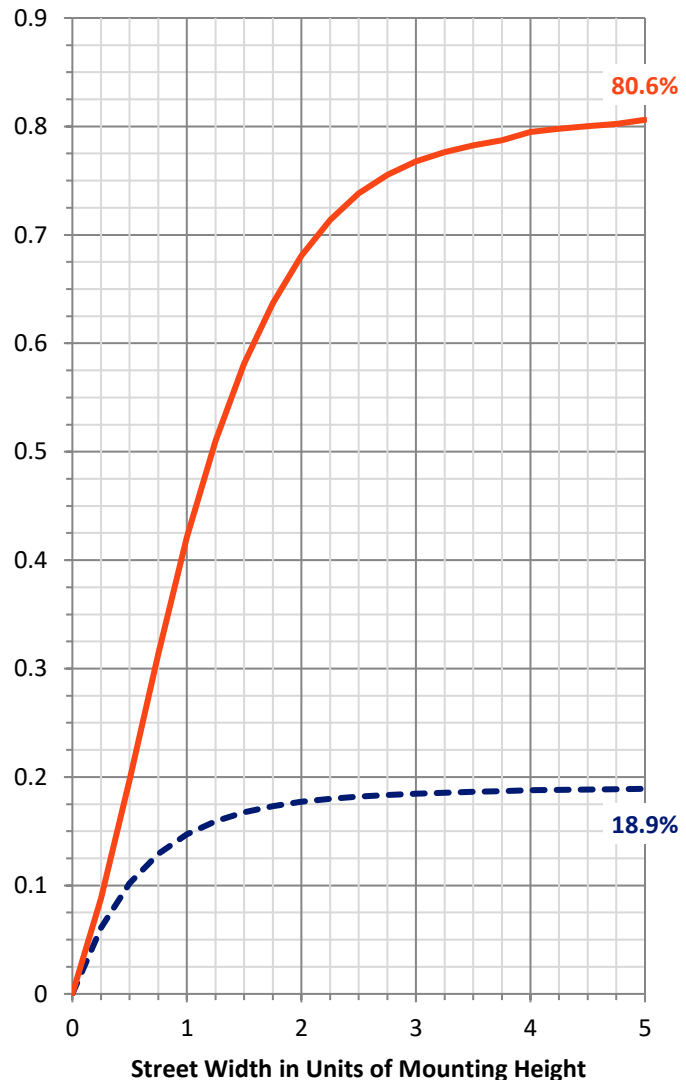
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	84.4	0.0	84.4
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	359.6	0.0	359.6
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	444.0	0.0	444.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.7	0.6
10°-20°	10.9	2.5
20°-30°	25.4	5.7
30°-40°	49.9	11.2
40°-50°	78.2	17.6
50°-60°	102.7	23.1
60°-70°	115.1	25.9
70°-80°	52.6	11.8
80°-90°	6.6	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°	444.0	100.0
0°-180°	444.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P#

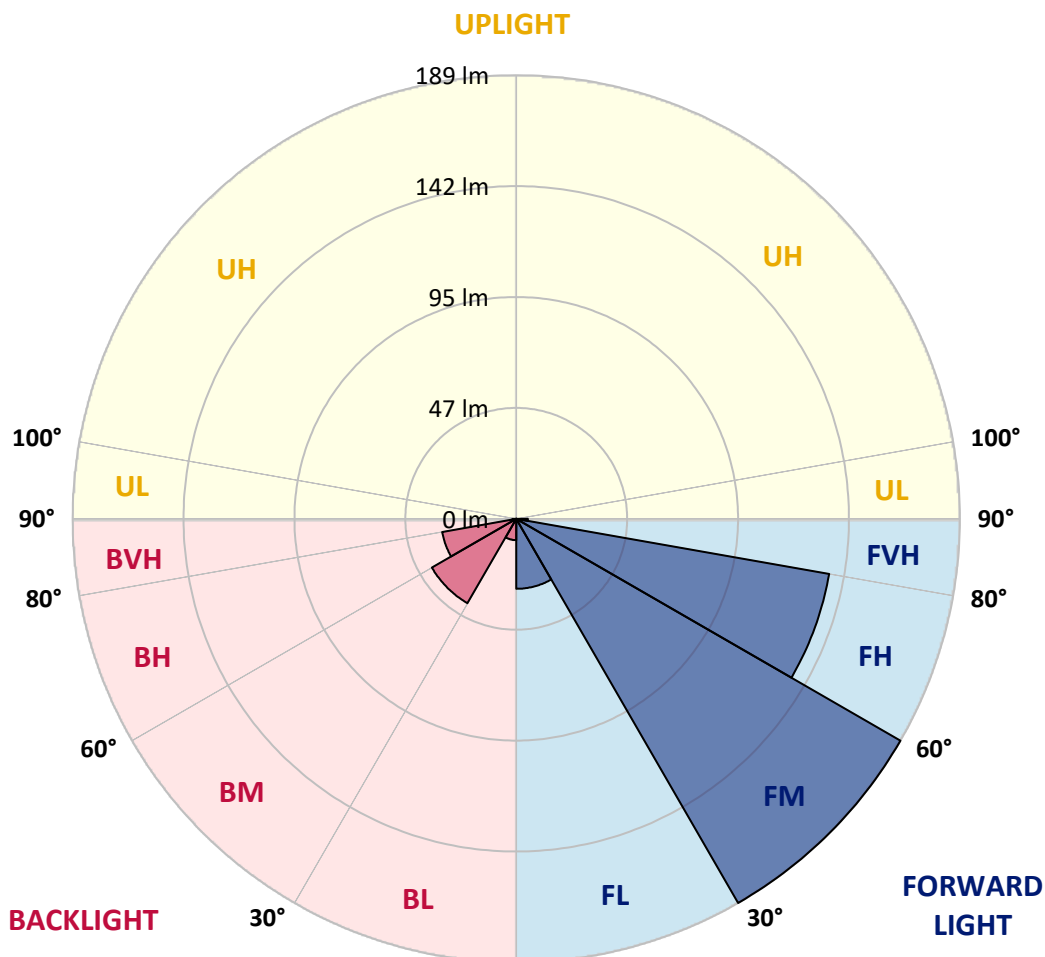
CATALOG NUMBER: BRT6-A1-830-U-T4-XX-BK

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	29.9	6.7			
FM	(30°-60°)	189.3	42.6			
FH	(60°-80°)	135.6	30.5			G0/660
FVH	(80°-90°)	4.9	1.1			G0/10
BL	(0°-30°)	9.1	2.1	B0/110		
BM	(30°-60°)	41.6	9.4	B0/220		
BH	(60°-80°)	32.1	7.2	B0/110		G0/110
BVH	(80°-90°)	1.6	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





REPORT NUMBER: P#

CATALOG NUMBER: BRT6-A1-830-U-T4-XX-BK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
2.5°	44.9	44.0	41.1	38.5	35.8	32.2	30.2	27.6	24.9	22.5	22.2
5°	47.4	47.1	47.1	43.6	42.3	38.7	36.7	33.6	31.4	28.0	26.9
7.5°	50.7	50.7	50.7	49.4	46.3	43.6	41.1	36.9	34.7	30.5	29.8
10°	55.1	55.1	54.9	54.5	50.7	48.7	44.7	40.9	38.0	33.6	32.0
12.5°	60.3	60.0	59.6	58.9	54.9	53.4	48.9	45.4	41.4	36.2	34.5
15°	65.2	65.4	64.9	64.0	60.3	58.3	53.4	50.0	44.9	39.6	37.1
17.5°	71.2	71.4	70.5	69.8	66.3	63.8	58.7	54.9	49.1	43.6	40.7
20°	79.2	78.7	78.1	77.4	73.4	70.3	64.7	60.9	54.5	48.3	44.7
22.5°	88.5	88.1	87.6	86.3	81.4	78.7	72.0	67.6	60.0	53.4	49.4
25°	99.2	99.4	97.6	97.0	91.2	88.5	80.5	75.4	66.9	59.2	54.5
27.5°	111.0	111.2	109.4	108.5	103.0	99.4	91.2	84.5	74.3	65.4	60.5
30°	122.8	123.2	122.3	121.4	115.0	111.2	101.4	94.1	82.5	72.0	66.3
32.5°	135.0	135.9	134.3	134.5	128.3	123.9	113.2	104.5	92.1	79.6	72.9
35°	148.1	148.8	147.7	147.9	141.4	137.2	125.0	115.0	101.2	87.2	80.1
37.5°	161.4	161.4	160.6	160.8	153.7	148.5	135.2	125.6	109.6	94.3	86.7
40°	174.1	174.1	173.2	171.9	165.9	158.8	146.5	134.3	117.9	99.8	91.6
42.5°	184.3	184.1	182.6	181.9	175.7	168.3	156.3	142.1	124.5	105.4	96.3
45°	193.9	193.7	191.0	190.6	184.6	177.2	164.8	150.1	130.1	110.1	100.7
47.5°	201.7	201.7	199.0	198.8	192.4	185.5	171.9	156.8	135.4	115.2	104.1
50°	207.9	207.9	205.0	206.1	197.7	193.2	177.9	162.8	140.8	119.4	108.3
52.5°	212.8	213.7	211.0	212.6	203.5	200.4	183.9	167.7	145.4	123.2	112.1
55°	217.5	219.5	216.6	218.4	208.8	207.0	189.7	172.8	149.4	126.1	115.9
57.5°	224.8	225.7	223.0	223.3	214.6	211.9	195.2	176.8	153.0	128.5	118.3
60°	232.6	231.9	230.4	227.5	221.9	217.0	199.7	179.2	155.9	131.0	120.7
62.5°	240.8	236.2	236.8	231.5	228.6	220.2	202.4	179.7	156.1	131.9	122.1
65°	243.5	237.9	240.4	232.2	232.4	219.0	199.9	173.7	151.0	128.1	119.9
67.5°	235.5	230.4	235.3	221.9	227.7	205.5	185.2	154.3	136.8	116.3	111.0
70°	195.5	186.3	195.0	179.9	186.3	157.2	136.8	107.4	99.0	85.8	84.5
72.5°	126.3	131.6	134.5	130.1	120.7	102.5	82.1	68.9	69.8	59.2	61.6
75°	94.3	94.3	94.1	90.1	86.7	68.3	52.5	47.1	49.8	43.8	42.3
77.5°	68.3	66.7	63.2	63.2	60.9	43.1	36.2	33.8	34.2	32.0	29.8
80°	42.5	45.1	40.7	40.7	37.1	26.2	22.7	22.2	20.7	18.9	18.5
82.5°	19.8	21.6	19.6	20.2	16.7	12.9	11.3	10.7	9.1	8.2	8.5
85°	7.1	6.7	6.0	6.0	5.3	4.2	3.8	3.6	2.9	2.9	2.9
87.5°	3.1	2.9	2.7	2.7	2.4	2.2	2.2	1.8	1.3	1.1	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



REPORT NUMBER: P#

CATALOG NUMBER: BRT6-A1-830-U-T4-XX-BK

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
2.5°	21.1	18.2	16.5	13.8	12.5	9.6	8.7	5.8	6.9	7.1
5°	24.7	22.7	19.1	17.6	14.0	12.7	9.8	8.7	8.9	9.3
7.5°	28.2	24.2	21.8	18.7	15.3	13.3	10.9	9.6	10.0	9.6
10°	30.7	25.8	23.3	19.3	16.7	13.6	10.9	10.2	10.5	9.6
12.5°	32.9	27.8	24.5	20.0	17.1	13.8	11.3	10.5	10.5	9.6
15°	35.6	29.6	25.8	20.7	17.6	13.8	11.6	10.2	10.2	9.3
17.5°	38.5	32.0	27.6	21.6	17.8	13.8	11.3	10.0	10.2	9.1
20°	42.3	34.7	29.4	22.7	18.2	13.8	11.3	9.8	10.0	8.9
22.5°	45.8	37.6	31.1	23.8	18.7	13.8	11.1	9.3	9.8	8.9
25°	50.5	40.9	33.6	25.1	19.3	13.8	10.9	9.1	9.3	8.7
27.5°	55.6	44.7	36.5	26.7	20.2	13.8	10.7	8.7	8.9	8.5
30°	61.4	49.1	39.1	28.7	21.1	14.2	10.5	8.5	8.7	8.2
32.5°	67.2	53.4	42.0	30.5	22.5	14.7	10.5	8.2	8.2	8.0
35°	73.4	57.8	44.9	32.5	23.6	15.1	10.5	8.0	8.0	7.6
37.5°	78.7	62.3	48.0	34.5	24.9	15.8	10.7	8.0	7.6	7.3
40°	84.1	66.0	50.7	36.2	26.0	16.2	10.9	8.0	7.3	6.9
42.5°	88.1	69.2	52.9	37.6	26.9	16.9	11.1	8.0	7.3	6.9
45°	91.8	72.0	54.5	38.7	27.6	17.6	11.6	8.0	7.1	6.7
47.5°	95.0	74.5	55.8	39.4	27.8	18.0	12.0	8.2	7.1	6.7
50°	98.1	76.9	56.7	39.8	27.4	18.2	12.2	8.5	6.9	6.7
52.5°	101.2	78.9	57.6	40.2	26.5	17.8	12.0	8.5	6.7	6.4
55°	104.1	81.4	58.3	40.2	25.4	17.1	11.8	8.2	6.2	6.0
57.5°	107.0	83.6	59.4	40.2	24.2	16.0	11.1	7.8	6.0	5.6
60°	110.3	86.5	61.4	40.7	22.7	14.9	10.2	7.3	5.6	5.1
62.5°	112.5	89.4	64.9	41.6	21.8	13.6	9.3	6.7	4.9	4.4
65°	112.1	90.5	69.2	43.8	22.7	12.2	8.5	6.0	4.2	4.0
67.5°	105.0	86.9	71.8	44.7	25.8	10.9	7.3	5.3	3.8	3.3
70°	84.9	76.9	66.7	48.0	26.5	9.8	6.7	4.4	3.3	2.9
72.5°	58.9	58.5	51.6	46.3	25.8	9.6	6.0	3.8	2.9	2.4
75°	44.0	39.4	42.0	36.2	24.0	10.0	5.3	3.1	2.2	2.0
77.5°	30.9	28.0	28.7	26.7	19.6	9.1	4.4	2.4	1.8	1.6
80°	19.1	16.9	18.0	15.8	12.9	6.9	3.3	1.8	1.1	1.1
82.5°	8.9	7.1	7.6	6.7	6.0	3.6	1.8	1.1	0.7	0.7
85°	2.7	2.0	2.0	1.6	1.3	1.3	0.9	0.4	0.4	0.2
87.5°	0.9	0.7	0.7	0.4	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

Cooper Lighting Solutions Photometric Lab  
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 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)