

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-A4-830-U-T3-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 (G3-2006-849-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/14/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: BRT6-A4-830-U-T3-XX-BK  
Description: BOLLARD 6INCH ROUND BASE, 2000LM, PATH ASYMMETRICAL, BLACK FINISH  
Light Source: (8) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1558.5 lumens  
Efficiency: N/A  
Efficacy: 72.2 lumens/watt  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1

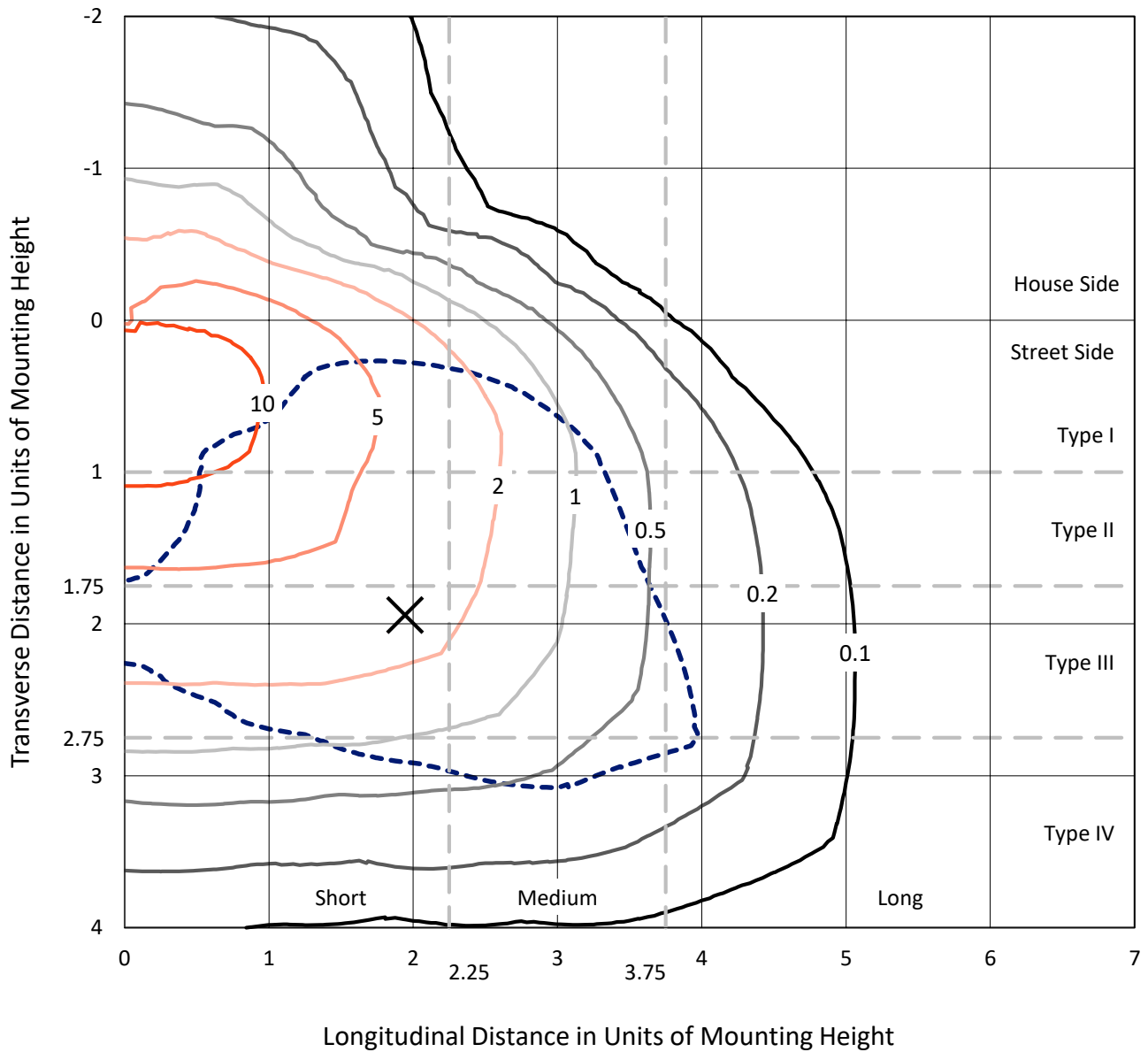
Input Watts (W): 21.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

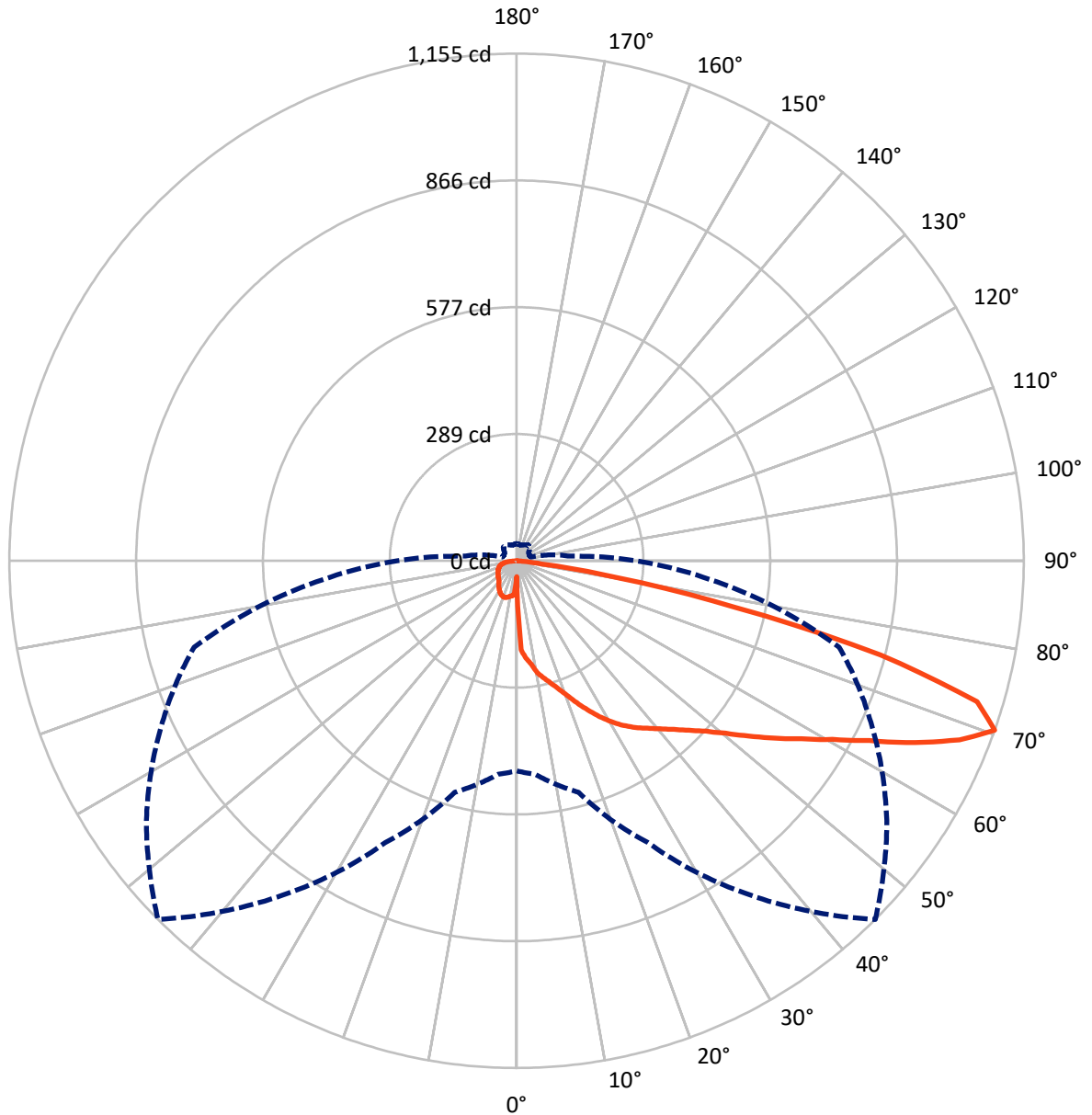
✕ Max cd  
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 19.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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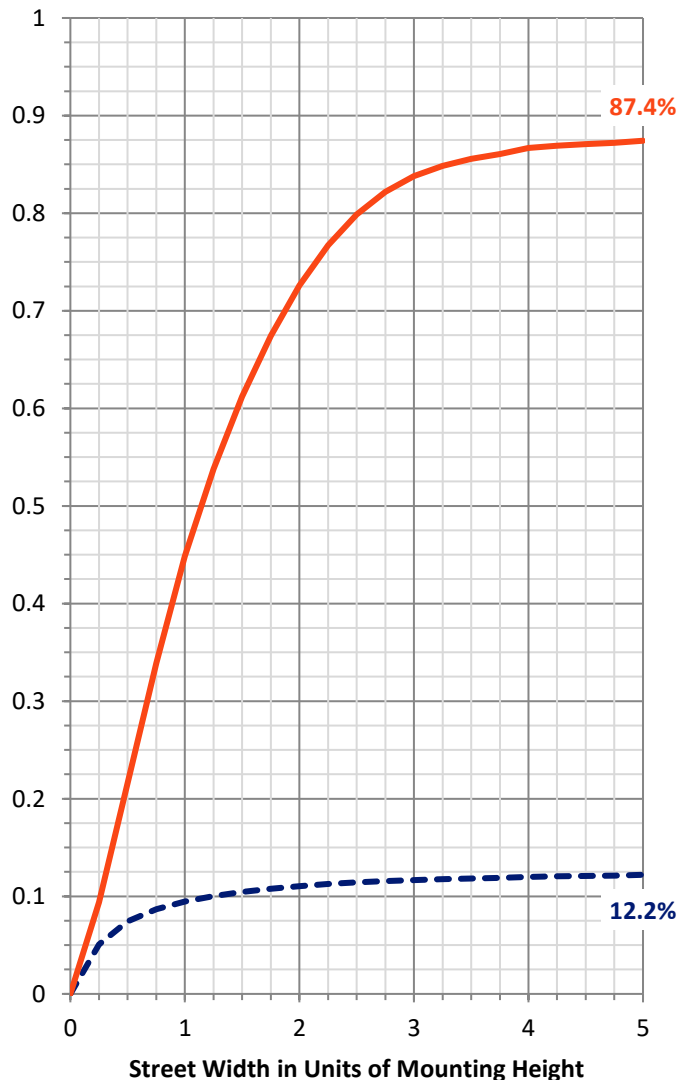
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	193.9	0.0	193.9
	% Fixture	12.4	0.0	12.4
<b>Street Side</b>	Lumens	1364.6	0.0	1364.6
	% Fixture	87.6	0.0	87.6
<b>Total</b>	Lumens	1558.5	0.0	1558.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.2	0.9
10°-20°	52.0	3.3
20°-30°	103.1	6.6
30°-40°	164.8	10.6
40°-50°	229.3	14.7
50°-60°	307.9	19.8
60°-70°	401.5	25.8
70°-80°	259.8	16.7
80°-90°	25.8	1.7
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°	1558.5	100.0
0°-180°	1558.5	100.0

**Coefficient of Utilization**



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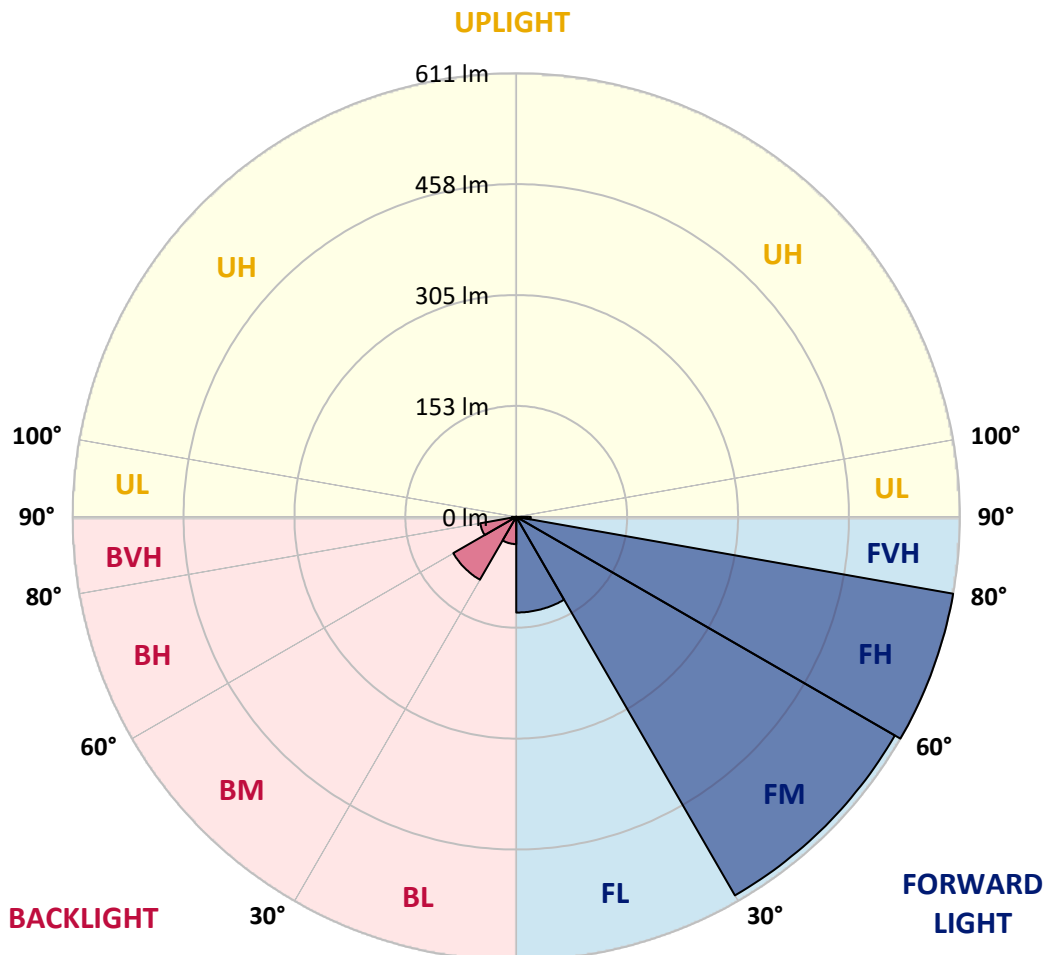
CATALOG NUMBER: BRT6-A4-830-U-T3-XX-BK

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	131.8	8.5			
FM	(30°-60°)	602.0	38.6			
FH	(60°-80°)	610.9	39.2			G0/660
FVH	(80°-90°)	19.9	1.3			G1/100
BL	(0°-30°)	37.5	2.4	B0/110		
BM	(30°-60°)	100.0	6.4	B0/220		
BH	(60°-80°)	50.4	3.2	B0/110		G0/110
BVH	(80°-90°)	5.9	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
2.5°	242.6	243.5	243.5	238.2	212.9	203.3	183.3	166.7	149.2	131.8	123.9
5°	260.9	260.9	260.9	258.3	251.3	222.5	210.3	185.9	170.2	149.2	144.9
7.5°	278.4	279.3	278.4	275.8	271.4	237.4	226.9	195.5	182.4	154.5	149.2
10°	294.1	295.0	295.0	292.4	288.9	259.2	240.9	205.1	192.0	158.8	152.7
12.5°	311.6	312.4	311.6	308.9	303.7	273.2	253.1	222.5	199.8	163.2	156.2
15°	332.5	333.4	334.2	328.1	322.0	288.0	267.0	233.0	207.7	169.3	159.7
17.5°	356.1	356.1	356.1	352.6	343.8	305.4	280.1	244.4	217.3	176.3	163.2
20°	381.4	382.2	381.4	378.8	367.4	326.4	295.8	256.6	226.9	184.1	167.6
22.5°	404.1	406.7	407.6	403.2	393.6	350.8	315.0	269.7	238.2	192.9	172.8
25°	430.2	431.1	430.2	427.6	417.2	376.1	333.4	284.5	250.5	202.5	179.8
27.5°	452.9	454.7	453.8	449.4	442.5	401.4	353.4	302.0	263.6	212.9	189.4
30°	478.2	477.4	474.7	473.0	466.9	425.0	375.3	320.3	278.4	226.0	203.3
32.5°	497.4	497.4	493.9	492.2	486.1	446.8	394.5	337.7	295.0	245.2	220.8
35°	514.9	515.8	512.3	508.8	503.5	466.0	411.9	355.2	314.2	267.9	240.9
37.5°	531.5	532.3	531.5	525.4	520.1	483.5	430.2	375.3	335.1	292.4	259.2
40°	542.8	544.6	548.1	539.3	535.0	502.7	451.2	402.3	363.9	318.5	276.6
42.5°	539.3	541.1	552.4	552.4	550.7	524.5	475.6	433.7	394.5	345.6	293.2
45°	528.9	532.3	551.5	561.1	567.3	549.8	503.5	471.3	430.2	373.5	309.8
47.5°	516.6	518.4	543.7	562.0	585.6	579.5	535.8	508.8	474.7	400.6	324.6
50°	508.8	512.3	538.5	565.5	604.8	617.0	571.6	552.4	519.3	425.9	336.9
52.5°	515.8	521.0	543.7	576.9	628.3	662.4	610.9	596.9	565.5	445.9	348.2
55°	530.6	532.3	560.3	599.5	662.4	713.0	652.8	649.3	611.8	463.4	356.1
57.5°	548.9	550.7	585.6	628.3	703.4	764.5	699.9	700.8	657.1	478.2	362.2
60°	574.2	578.6	615.3	669.4	752.3	825.6	753.1	756.6	699.9	487.8	364.8
62.5°	591.7	598.7	640.6	713.0	810.7	901.5	813.4	805.5	740.0	493.1	362.2
65°	584.7	587.3	644.9	745.3	871.8	997.5	887.5	850.0	771.5	489.6	350.8
67.5°	554.2	559.4	617.9	754.0	919.8	1087.4	966.1	884.9	788.9	472.1	322.0
70°	478.2	487.8	545.4	707.8	929.4	1154.6	1028.9	892.8	760.1	425.9	271.4
72.5°	287.1	307.2	363.0	498.3	791.5	1096.1	1014.1	805.5	643.2	329.9	182.4
75°	145.7	150.1	168.4	248.7	488.7	855.2	867.5	630.1	470.4	192.0	103.0
77.5°	68.1	68.9	79.4	111.7	242.6	509.7	655.4	461.7	299.3	98.6	55.0
80°	37.5	40.1	42.8	55.0	75.1	233.9	412.8	280.1	170.2	43.6	24.4
82.5°	25.3	25.3	26.2	27.9	35.8	56.7	138.8	108.2	65.5	17.5	12.2
85°	9.6	10.5	11.3	12.2	14.0	14.8	15.7	14.8	10.5	6.1	4.4
87.5°	4.4	4.4	4.4	5.2	4.4	4.4	4.4	3.5	3.5	2.6	1.7
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°	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8	35.8
2.5°	116.9	107.3	86.4	76.8	56.7	52.4	38.4	27.9	14.8	11.3
5°	133.5	115.2	102.1	84.7	76.8	55.0	51.5	29.7	31.4	44.5
7.5°	138.8	116.9	108.2	86.4	80.3	55.9	52.4	31.4	38.4	45.4
10°	145.7	118.7	109.1	87.3	81.2	56.7	53.2	34.9	48.0	48.0
12.5°	148.4	120.4	110.8	88.1	83.8	58.5	55.0	42.8	49.7	50.6
15°	151.0	121.3	112.6	90.8	85.5	61.1	56.7	50.6	50.6	51.5
17.5°	153.6	123.1	116.1	92.5	87.3	63.7	56.7	51.5	50.6	51.5
20°	156.2	126.5	119.6	94.3	87.3	67.2	56.7	51.5	50.6	51.5
22.5°	161.4	131.8	123.9	95.1	86.4	68.1	55.0	50.6	49.7	50.6
25°	168.4	139.6	126.5	96.0	84.7	67.2	54.1	49.7	48.0	48.9
27.5°	178.9	149.2	128.3	96.9	82.0	66.3	52.4	48.0	46.3	47.1
30°	193.7	158.0	127.4	95.1	78.5	64.6	50.6	46.3	45.4	46.3
32.5°	211.2	164.1	124.8	91.6	75.1	62.8	48.9	44.5	43.6	44.5
35°	226.0	165.8	118.7	85.5	71.6	61.1	47.1	42.8	42.8	43.6
37.5°	238.2	164.1	110.0	80.3	67.2	58.5	45.4	41.9	41.9	41.9
40°	247.8	158.8	100.4	74.2	62.8	55.9	44.5	41.0	41.0	41.9
42.5°	254.8	151.0	91.6	69.8	60.2	55.0	43.6	40.1	40.1	41.0
45°	260.1	141.4	83.8	64.6	57.6	53.2	41.9	38.4	38.4	39.3
47.5°	265.3	131.8	75.9	61.1	56.7	52.4	40.1	38.4	38.4	39.3
50°	267.9	122.2	69.8	58.5	55.0	49.7	39.3	38.4	40.1	40.1
52.5°	269.7	113.5	63.7	55.0	54.1	48.9	40.1	40.1	41.0	41.9
55°	267.9	102.1	57.6	51.5	51.5	48.9	41.0	41.0	41.9	41.9
57.5°	260.1	89.0	51.5	48.9	49.7	49.7	41.9	41.0	41.9	42.8
60°	249.6	75.1	47.1	46.3	48.9	49.7	42.8	41.0	42.8	42.8
62.5°	230.4	60.2	41.9	42.8	48.0	49.7	42.8	40.1	42.8	42.8
65°	200.7	48.0	37.5	39.3	46.3	48.9	41.9	39.3	41.0	41.9
67.5°	164.1	40.1	34.0	35.8	44.5	48.0	41.0	38.4	39.3	41.0
70°	121.3	34.0	31.4	33.2	42.8	44.5	40.1	36.7	38.4	39.3
72.5°	79.4	28.8	27.9	30.5	41.0	41.0	38.4	34.9	36.7	38.4
75°	46.3	22.7	22.7	27.1	38.4	37.5	36.7	29.7	32.3	35.8
77.5°	28.8	17.5	19.2	22.7	35.8	34.9	34.0	25.3	27.9	33.2
80°	14.0	13.1	14.0	19.2	30.5	30.5	31.4	21.8	24.4	30.5
82.5°	7.9	7.9	9.6	13.1	27.1	26.2	27.1	18.3	20.9	27.1
85°	4.4	5.2	5.2	8.7	18.3	16.6	22.7	13.1	15.7	20.9
87.5°	1.7	1.7	0.9	0.9	2.6	0.9	2.6	1.7	5.2	7.0
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 45-Deg Lateral      - - - Horizontal Cone Through 70-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)