

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-A3-727-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-A3-727-U-T5S-XX-BK  
Description: BOLLARD 6INCH ROUND BASE, 3000LM, TYPE V SQUARE SYMMETRICAL, BLACK FINISH  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2791 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G1

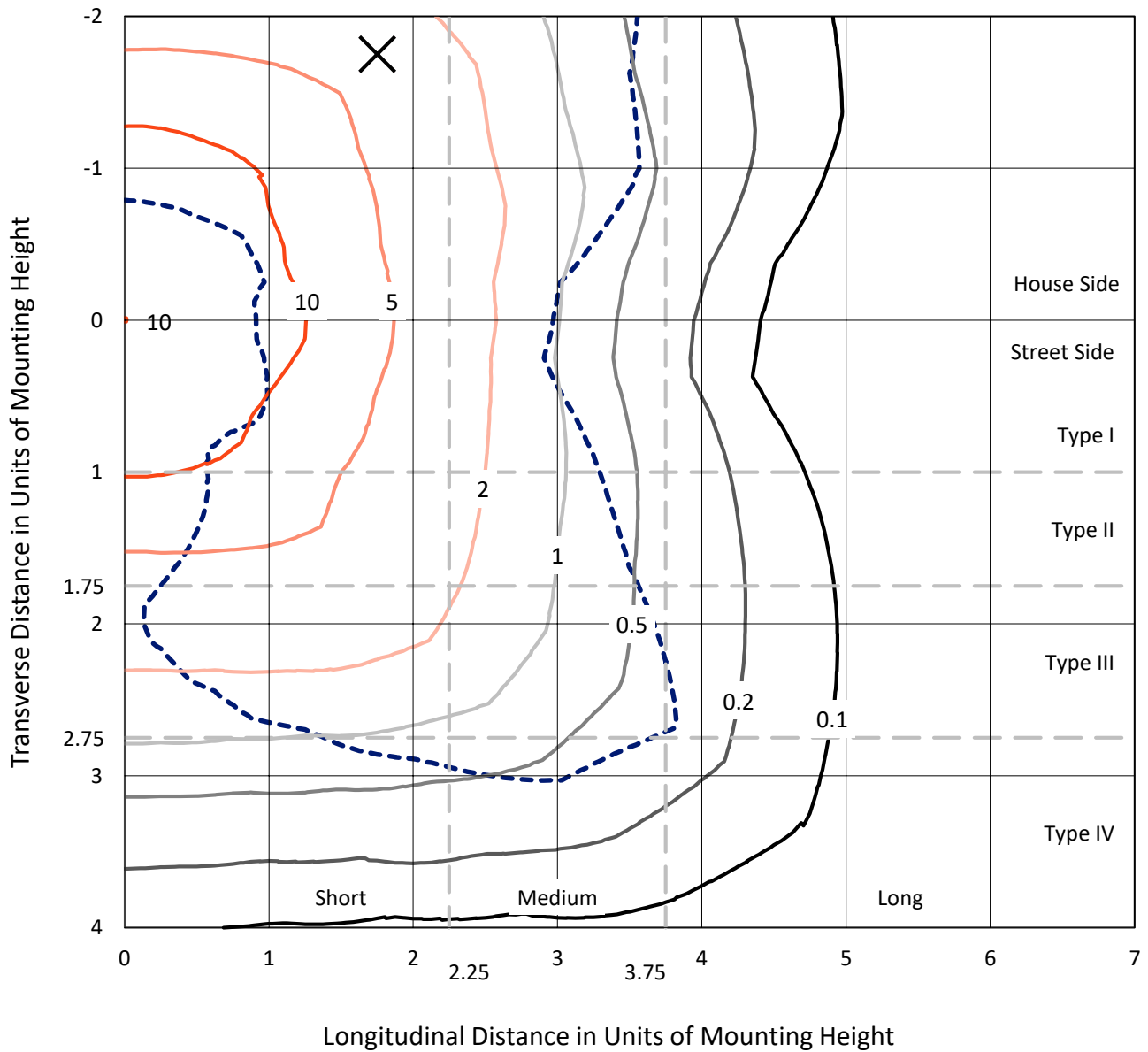
Input Watts (W): 34.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

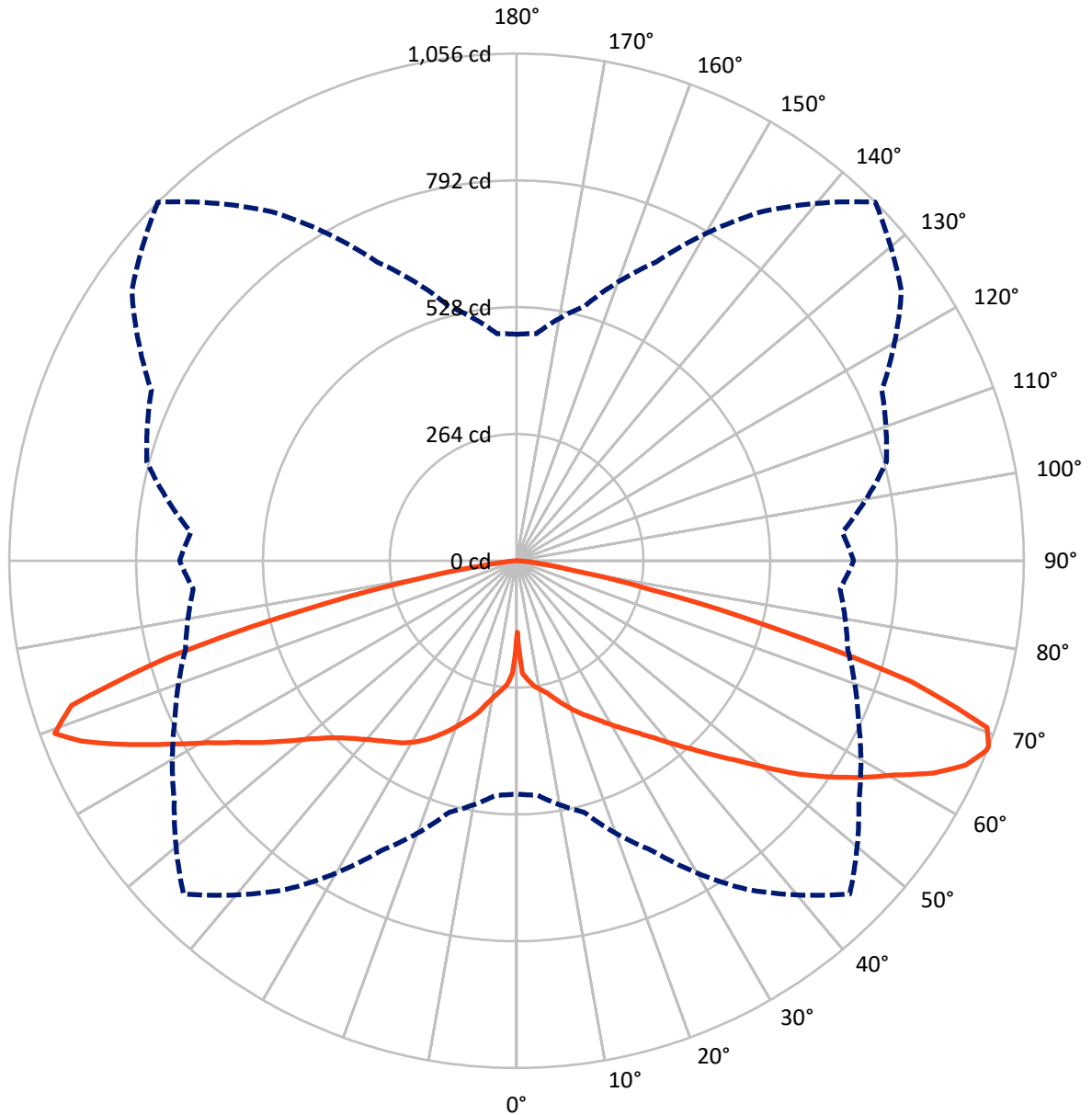
✕ Max cd  
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 19.8 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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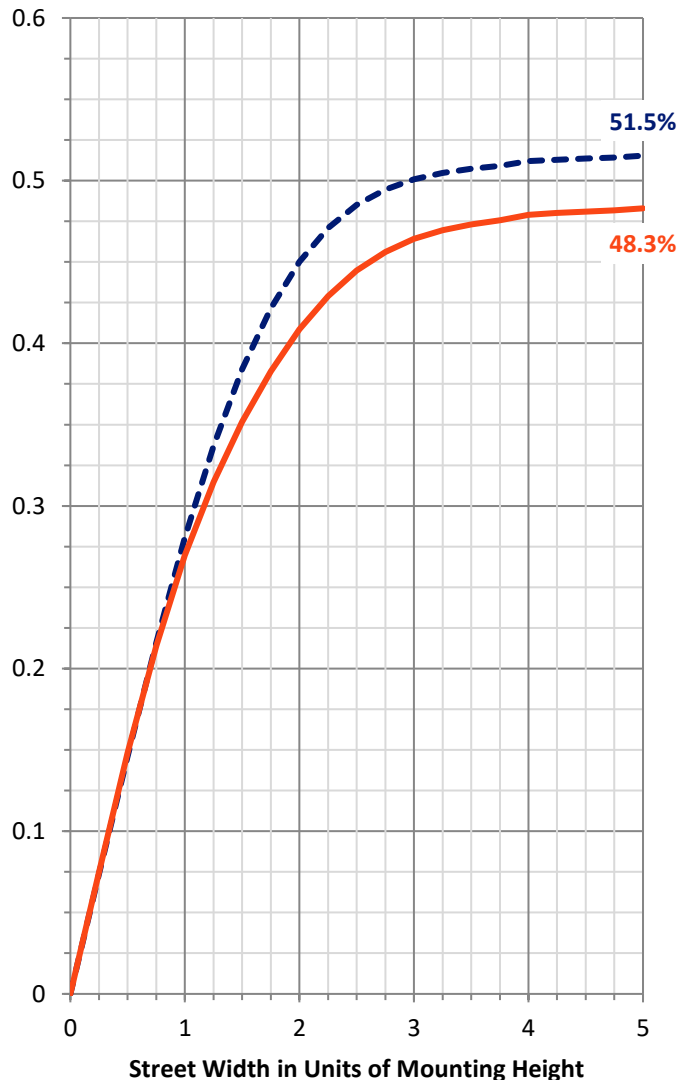
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1440.3	0.0	1440.3
	% Fixture	51.6	0.0	51.6
<b>Street Side</b>	Lumens	1350.7	0.0	1350.7
	% Fixture	48.4	0.0	48.4
<b>Total</b>	Lumens	2791.0	0.0	2791.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.2	0.9
10°-20°	86.3	3.1
20°-30°	172.2	6.2
30°-40°	284.5	10.2
40°-50°	422.3	15.1
50°-60°	592.5	21.2
60°-70°	739.3	26.5
70°-80°	431.5	15.5
80°-90°	38.2	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°	2791.0	100.0
0°-180°	2791.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P#

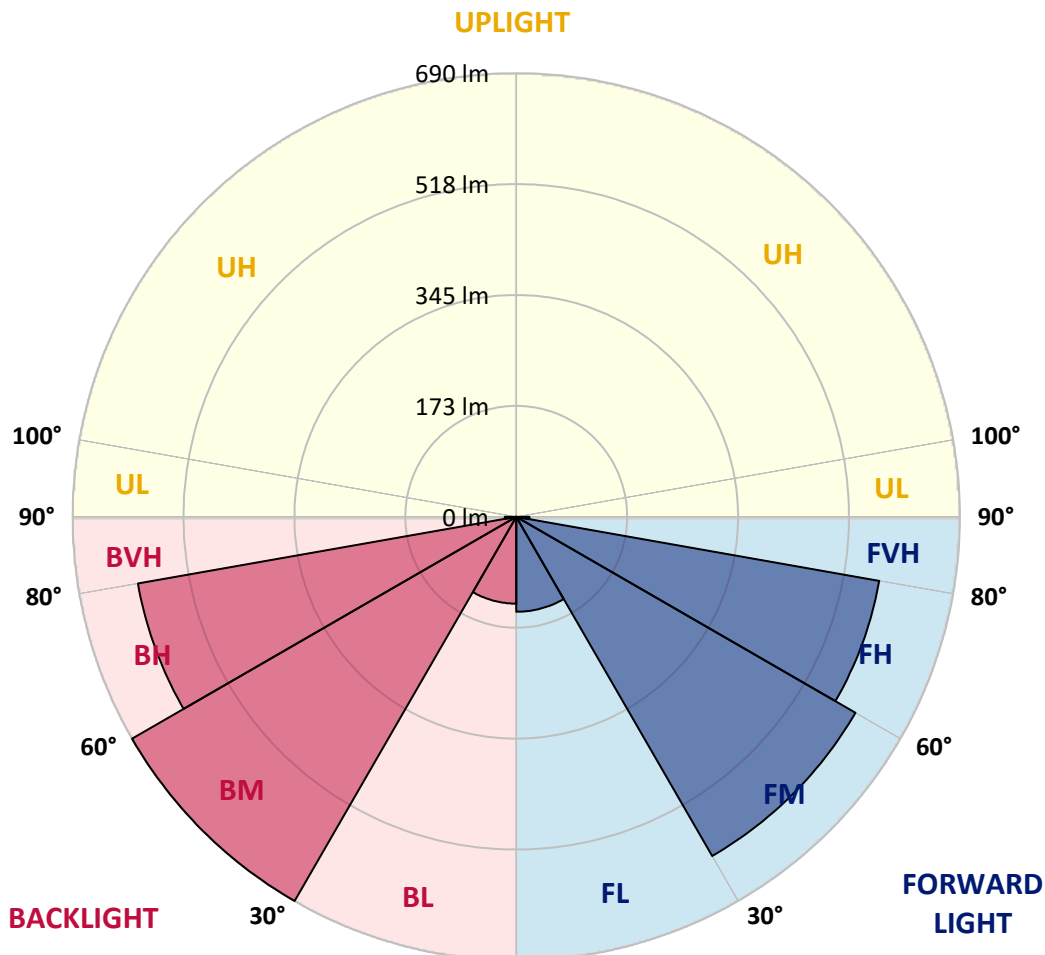
CATALOG NUMBER: BRT6-A3-727-U-T5S-XX-BK

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	147.7	5.3			
FM	(30°-60°)	609.2	21.8			
FH	(60°-80°)	573.3	20.5			G0/660
FVH	(80°-90°)	20.5	0.7			G1/100
BL	(0°-30°)	135.1	4.8	B1/500		
BM	(30°-60°)	690.0	24.7	B1/1000		
BH	(60°-80°)	597.5	21.4	B2/1000		G0/660
BVH	(80°-90°)	17.7	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8
2.5°	211.2	212.6	230.9	234.4	230.2	232.3	228.1	229.5	223.9	228.1	224.6
5°	263.9	248.4	249.1	268.1	261.8	258.9	249.8	255.4	241.4	249.1	247.0
7.5°	281.4	268.1	266.7	284.9	283.5	272.3	268.1	264.6	258.2	256.8	256.1
10°	298.2	298.2	288.4	301.1	300.3	287.0	282.1	275.1	269.5	263.2	261.8
12.5°	315.1	314.4	312.3	317.2	320.0	305.3	296.1	284.9	282.1	270.2	268.8
15°	334.7	333.3	331.9	334.0	340.3	328.4	310.2	297.5	292.6	277.9	275.1
17.5°	357.2	356.5	355.1	355.8	360.7	345.3	324.9	312.3	303.9	286.3	282.8
20°	376.8	375.4	376.1	377.5	383.2	363.5	338.9	329.1	316.5	298.2	291.9
22.5°	395.1	395.1	395.8	397.2	404.9	382.5	357.2	347.4	331.2	310.9	303.2
25°	412.6	412.6	415.4	416.8	424.6	400.7	374.7	365.6	348.1	325.6	316.5
27.5°	430.9	429.5	430.2	432.3	442.1	418.2	391.6	382.5	364.9	343.9	334.7
30°	446.3	444.9	445.6	447.7	458.9	433.7	407.7	397.2	382.5	369.1	360.7
32.5°	459.6	458.2	458.2	461.1	473.0	447.0	421.8	411.9	402.8	401.4	393.0
35°	471.6	469.5	471.6	473.0	484.2	457.5	431.6	425.3	422.5	433.0	426.0
37.5°	482.1	480.0	483.5	482.1	493.3	469.5	440.7	438.6	444.2	465.3	459.6
40°	489.8	489.1	496.1	492.6	503.2	482.8	453.3	454.7	468.1	498.9	494.7
42.5°	484.9	485.6	498.2	502.5	513.0	498.2	469.5	475.1	494.7	536.8	530.5
45°	476.5	479.3	494.0	508.1	524.9	516.5	491.2	497.5	524.9	574.7	569.1
47.5°	461.1	463.9	487.0	508.1	537.5	540.3	513.0	524.9	557.9	612.6	607.0
50°	454.7	457.5	482.1	509.5	552.3	571.2	541.8	557.2	588.8	647.0	643.5
52.5°	458.9	464.6	487.0	519.3	572.6	609.1	568.4	589.5	620.3	678.6	677.2
55°	472.3	475.1	501.8	538.9	602.8	651.2	602.1	623.2	651.2	707.4	708.1
57.5°	489.1	491.2	521.4	566.3	638.6	694.0	637.2	661.8	676.5	730.5	733.3
60°	511.6	513.7	548.1	601.4	680.7	746.0	680.0	703.9	695.4	748.1	753.0
62.5°	529.1	531.2	569.8	637.9	734.0	812.6	729.8	738.9	707.4	753.0	762.1
65°	521.4	523.5	571.9	664.6	788.1	888.4	793.0	764.2	715.8	735.4	752.3
67.5°	496.1	499.6	548.8	669.5	828.8	965.6	858.2	782.5	715.8	691.2	713.0
68°	485.6	489.8	541.8	665.3	835.1	981.0	870.2	785.3	713.7	675.8	701.8
70°	430.9	433.7	488.4	623.9	839.3	1026.7	916.5	787.4	688.4	596.5	626.7
72.5°	273.7	278.6	317.9	451.9	703.2	974.7	908.1	714.4	586.7	435.8	449.8
75°	143.2	141.1	163.5	240.7	442.1	755.1	776.1	557.9	425.3	245.6	251.2
77.5°	75.1	73.0	80.7	113.7	216.1	449.8	566.3	401.4	263.2	124.2	134.0
80°	49.1	47.7	49.1	61.8	88.4	215.4	336.1	246.3	152.3	52.6	53.3
82.5°	35.8	32.3	34.4	38.6	47.0	65.3	118.6	101.1	66.0	21.8	23.9
85°	19.6	17.5	16.8	22.5	21.8	23.9	18.9	15.4	12.6	8.4	8.4
87.5°	11.2	7.0	5.6	7.0	5.6	5.6	4.9	4.2	4.9	3.5	3.5
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°	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8
2.5°	226.0	231.6	229.5	228.8	234.4	235.1	235.1	226.0	217.5	223.9
5°	242.1	246.3	246.3	249.8	249.1	251.9	249.1	233.7	238.6	233.0
7.5°	257.5	253.3	258.2	256.8	263.2	257.5	254.7	242.8	243.5	250.5
10°	264.6	259.6	265.3	263.2	272.3	268.1	262.5	251.2	250.5	258.2
12.5°	273.0	266.0	274.4	271.6	282.1	280.0	273.0	262.5	262.5	269.5
15°	281.4	273.7	284.9	282.8	297.5	295.4	288.4	277.2	280.7	284.9
17.5°	289.1	282.8	297.5	296.1	313.7	312.3	306.0	295.4	300.3	301.8
20°	298.9	293.3	311.6	312.3	329.8	330.5	322.8	315.8	319.3	321.4
22.5°	311.6	308.8	329.1	327.0	346.0	348.8	342.5	338.2	341.8	344.6
25°	328.4	327.7	346.0	342.5	360.7	369.1	362.8	362.8	367.7	370.5
27.5°	353.0	348.1	363.5	359.3	378.2	391.6	386.7	390.9	394.4	397.9
30°	381.1	370.5	381.1	376.8	397.9	414.7	413.3	418.9	424.6	428.1
32.5°	412.6	394.4	398.6	394.4	418.2	438.6	440.7	450.5	456.1	458.2
35°	447.0	418.9	418.2	414.0	441.4	466.7	472.3	484.9	488.4	491.2
37.5°	480.7	443.5	440.0	437.2	468.8	498.2	502.5	518.6	519.3	520.0
40°	513.0	470.9	467.4	466.0	501.0	528.4	536.8	550.2	550.2	548.1
42.5°	544.6	498.2	498.9	498.2	536.1	563.5	570.5	578.9	575.4	574.7
45°	580.3	524.2	534.7	536.1	577.5	600.0	600.7	607.0	605.6	604.2
47.5°	618.2	550.9	574.7	575.4	621.8	642.1	634.4	637.9	636.5	633.7
50°	657.5	580.3	614.0	618.2	677.2	683.5	668.1	668.8	666.7	662.5
52.5°	691.2	614.0	651.2	662.5	738.2	734.7	706.0	700.3	694.0	687.0
55°	722.8	649.8	688.4	710.9	794.4	782.5	743.9	728.4	711.6	707.4
57.5°	744.6	681.4	727.0	752.3	850.5	832.3	776.8	743.2	712.3	705.3
60°	754.4	714.4	771.9	799.3	905.3	875.1	798.6	738.9	696.8	687.7
62.5°	746.0	743.9	807.0	853.3	973.3	907.4	797.9	715.1	658.2	648.4
65°	724.9	771.2	831.6	913.0	1026.7	914.4	768.4	658.2	586.0	574.7
67.5°	688.4	794.4	839.3	968.4	1054.7	896.1	706.0	566.3	496.1	487.0
68°	680.7	797.2	839.3	978.2	1056.1	887.0	686.3	549.5	475.1	471.6
70°	626.7	795.8	837.2	1014.0	1039.3	806.3	581.8	433.0	376.8	363.5
72.5°	487.0	705.3	758.6	946.7	858.9	562.8	353.0	242.1	214.0	202.1
75°	296.1	517.2	563.5	713.7	537.5	303.2	190.2	132.6	119.3	119.3
77.5°	162.1	322.8	376.8	479.3	275.8	161.4	106.0	78.6	74.4	79.3
80°	66.0	171.2	223.9	230.2	113.7	80.0	66.7	49.1	48.4	50.5
82.5°	25.3	67.4	74.4	58.9	49.1	47.0	42.1	33.0	31.6	37.2
85°	8.4	12.6	15.4	16.1	24.6	26.0	28.1	19.6	18.9	24.6
87.5°	4.2	4.9	4.2	4.9	5.6	5.6	5.6	5.6	6.3	11.9
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  
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)