

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-A4-727-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-A4-727-U-T4-XX-BK  
Description: BOLLARD 6INCH ROUND BASE, 2000LM, WIDE PATH ASYMMETRICAL, BLACK FINISH  
Light Source: (10) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1834 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

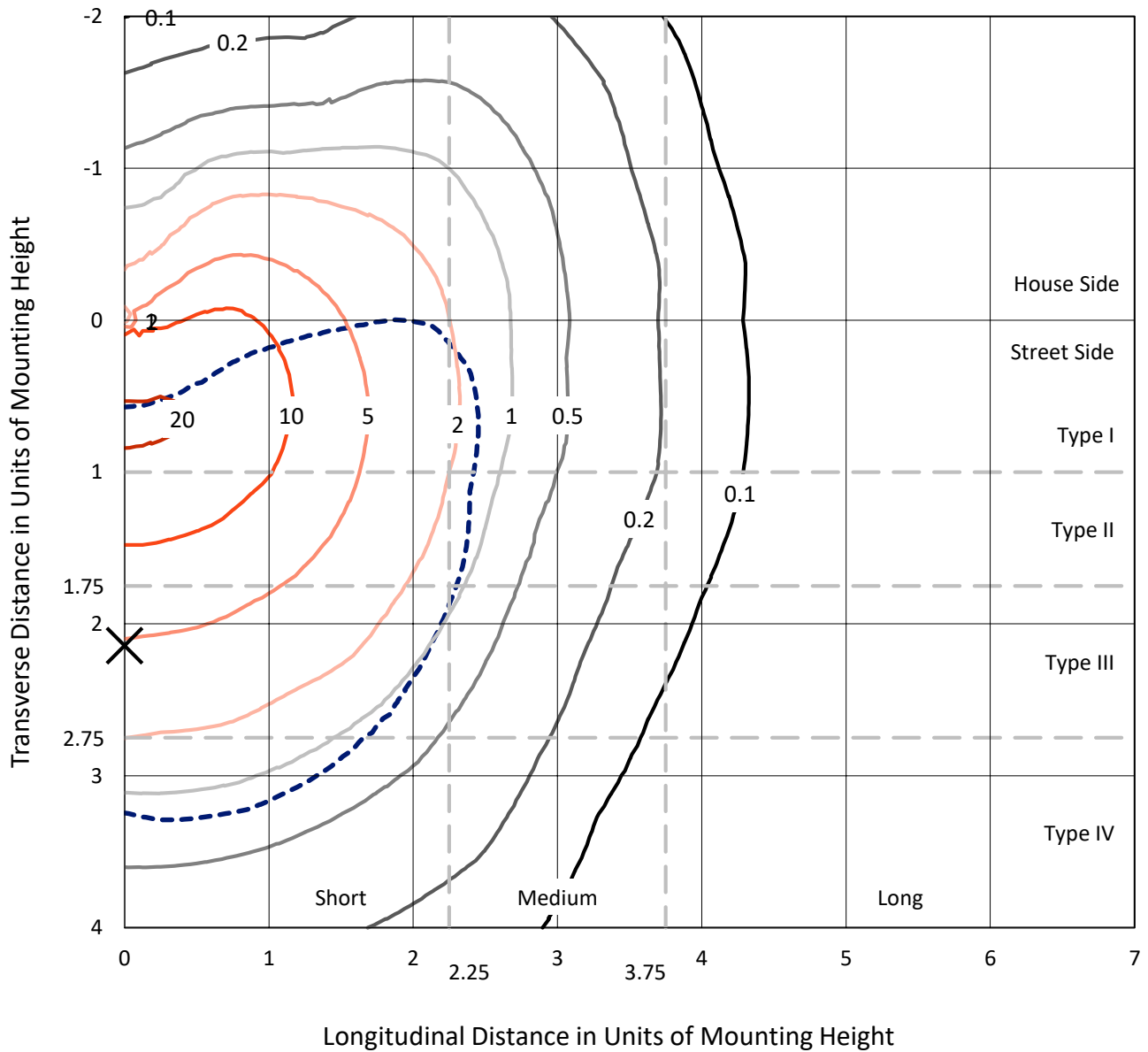
Input Watts (W): 21.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

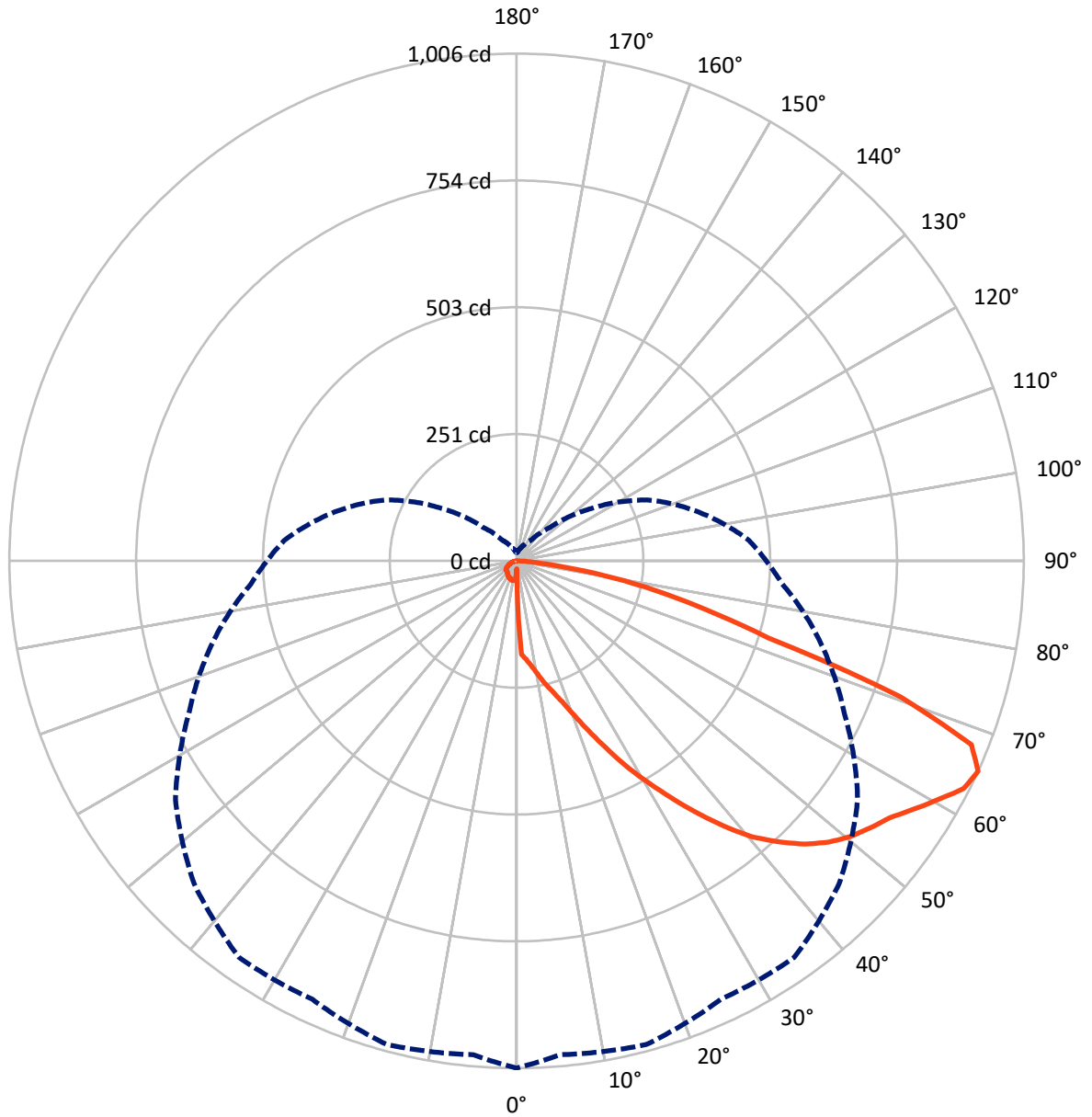
✕ Max cd  
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 21 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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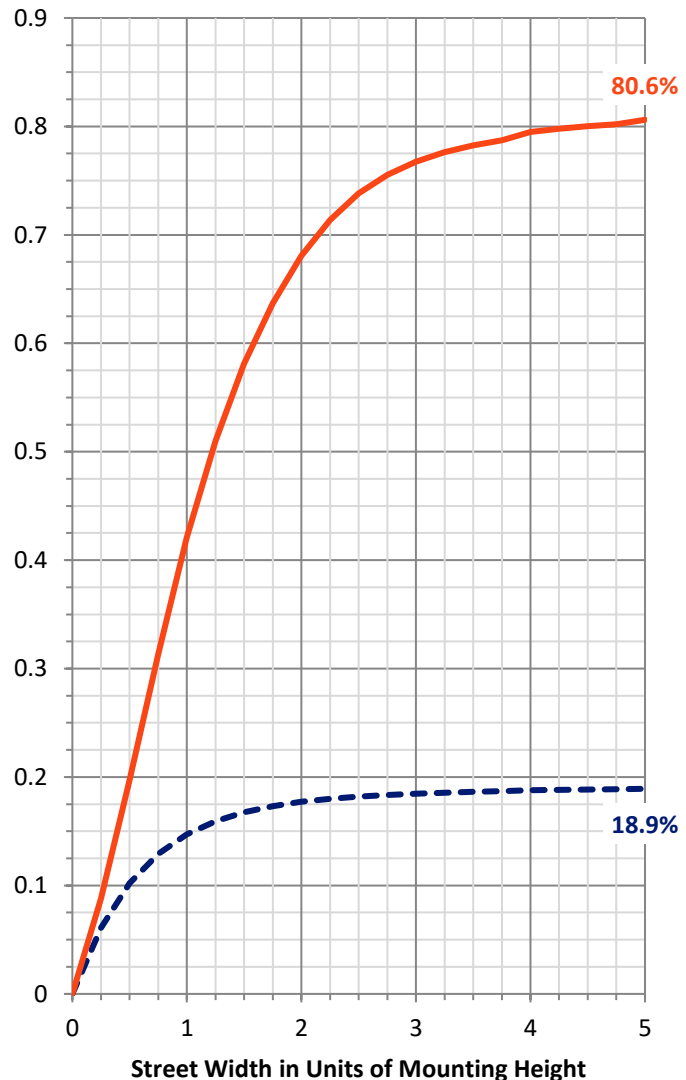
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	348.6	0.0	348.6
	% Fixture	19.0	0.0	19.0
<b>Street Side</b>	Lumens	1485.4	0.0	1485.4
	% Fixture	81.0	0.0	81.0
<b>Total</b>	Lumens	1834.0	0.0	1834.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.0	0.6
10°-20°	45.0	2.5
20°-30°	105.0	5.7
30°-40°	206.1	11.2
40°-50°	323.1	17.6
50°-60°	424.2	23.1
60°-70°	475.5	25.9
70°-80°	217.1	11.8
80°-90°	27.1	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°	1834.0	100.0
0°-180°	1834.0	100.0

**Coefficient of Utilization**



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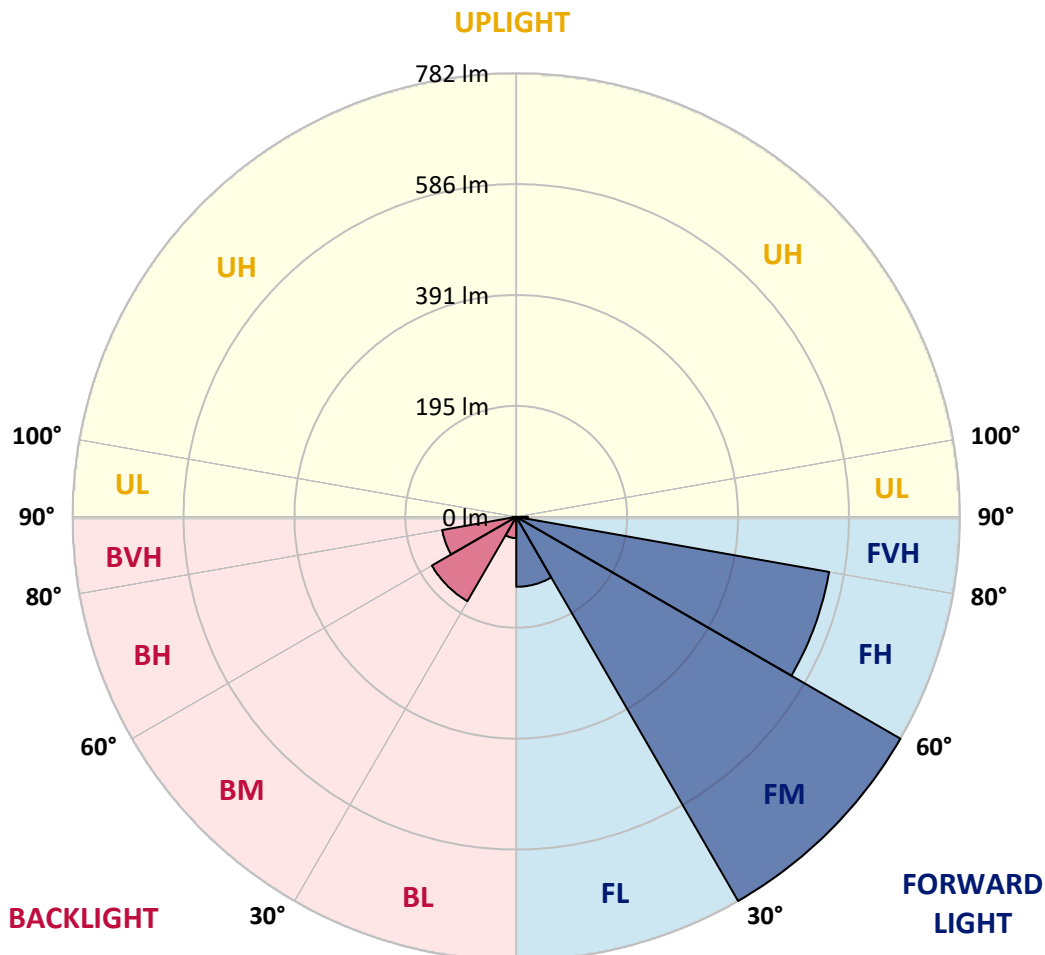
CATALOG NUMBER: BRT6-A4-727-U-T4-XX-BK

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	123.3	6.7			
FM	(30°-60°)	781.7	42.6			
FH	(60°-80°)	560.0	30.5			G0/660
FVH	(80°-90°)	20.4	1.1			G1/100
BL	(0°-30°)	37.6	2.1	B0/110		
BM	(30°-60°)	171.7	9.4	B0/220		
BH	(60°-80°)	132.6	7.2	B1/500		G1/500
BVH	(80°-90°)	6.7	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
2.5°	185.5	181.9	169.9	158.9	147.9	133.2	124.9	113.9	102.9	92.8	91.9
5°	195.7	194.7	194.7	180.0	174.5	159.8	151.6	138.7	129.5	115.7	111.1
7.5°	209.4	209.4	209.4	203.9	191.1	180.0	169.9	152.5	143.3	125.8	123.1
10°	227.8	227.8	226.9	225.0	209.4	201.2	184.6	169.0	157.1	138.7	132.3
12.5°	248.9	248.0	246.2	243.4	226.9	220.5	202.1	187.4	170.8	149.7	142.4
15°	269.1	270.1	268.2	264.5	248.9	240.7	220.5	206.7	185.5	163.5	153.4
17.5°	293.9	294.9	291.2	288.4	273.7	263.6	242.5	226.9	203.0	180.0	168.1
20°	327.0	325.2	322.4	319.7	303.1	290.3	267.3	251.7	225.0	199.3	184.6
22.5°	365.6	363.7	361.9	356.4	336.2	325.2	297.6	279.2	248.0	220.5	203.9
25°	409.7	410.6	403.2	400.5	376.6	365.6	332.5	311.4	276.5	244.3	225.0
27.5°	458.4	459.3	451.9	448.3	425.3	410.6	376.6	349.0	306.8	270.1	249.8
30°	507.0	508.9	505.2	501.5	474.9	459.3	418.9	388.5	340.8	297.6	273.7
32.5°	557.6	561.2	554.8	555.7	530.0	511.6	467.5	431.7	380.3	328.8	301.3
35°	611.8	614.5	609.9	610.8	584.2	566.7	516.2	474.9	417.9	360.1	330.7
37.5°	666.9	666.9	663.2	664.1	634.7	613.6	558.5	519.0	452.8	389.5	358.2
40°	719.2	719.2	715.5	710.0	685.2	655.8	605.3	554.8	486.8	412.4	378.4
42.5°	761.5	760.6	754.1	751.4	725.7	695.3	645.7	587.0	514.4	435.4	397.7
45°	801.0	800.1	789.0	787.2	762.4	732.1	680.6	620.0	537.3	454.7	416.1
47.5°	833.1	833.1	822.1	821.2	794.5	766.1	710.0	647.6	559.4	475.8	429.9
50°	858.8	858.8	846.9	851.5	816.6	798.2	734.8	672.4	581.4	493.3	447.3
52.5°	879.0	882.7	871.7	878.1	840.5	827.6	759.6	692.6	600.7	508.9	462.9
55°	898.3	906.6	894.7	902.0	862.5	855.2	783.5	713.7	617.3	520.8	478.6
57.5°	928.6	932.3	921.3	922.2	886.4	875.4	806.5	730.2	632.0	530.9	488.7
60°	960.8	958.0	951.6	939.7	916.7	896.5	824.9	740.3	643.9	541.0	498.8
62.5°	994.8	975.5	978.3	956.2	944.3	909.4	835.9	742.2	644.8	544.7	504.3
65°	1005.8	982.8	992.9	959.0	959.9	904.8	825.8	717.4	623.7	529.1	495.1
67.5°	972.7	951.6	971.8	916.7	940.6	848.7	765.1	637.5	564.9	480.4	458.4
70°	807.4	769.7	805.6	743.1	769.7	649.4	564.9	443.7	408.8	354.6	349.0
72.5°	521.7	543.8	555.7	537.3	498.8	423.4	338.9	284.7	288.4	244.3	254.4
75°	389.5	389.5	388.5	372.0	358.2	282.0	216.8	194.7	205.8	181.0	174.5
77.5°	282.0	275.6	260.9	260.9	251.7	178.2	149.7	139.6	141.5	132.3	123.1
80°	175.4	186.5	168.1	168.1	153.4	108.4	93.7	91.9	85.4	78.1	76.2
82.5°	81.8	89.1	80.8	83.6	68.9	53.3	46.8	44.1	37.7	34.0	34.9
85°	29.4	27.6	24.8	24.8	22.0	17.5	15.6	14.7	11.9	11.9	11.9
87.5°	12.9	11.9	11.0	11.0	10.1	9.2	9.2	7.3	5.5	4.6	3.7
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°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
2.5°	87.3	75.3	68.0	56.9	51.4	39.5	35.8	23.9	28.5	29.4
5°	102.0	93.7	79.0	72.6	57.9	52.4	40.4	35.8	36.7	38.6
7.5°	116.7	100.1	90.0	77.2	63.4	55.1	45.0	39.5	41.3	39.5
10°	126.8	106.6	96.4	79.9	68.9	56.0	45.0	42.3	43.2	39.5
12.5°	135.9	114.8	101.0	82.7	70.7	56.9	46.8	43.2	43.2	39.5
15°	147.0	122.2	106.6	85.4	72.6	56.9	47.8	42.3	42.3	38.6
17.5°	158.9	132.3	113.9	89.1	73.5	56.9	46.8	41.3	42.3	37.7
20°	174.5	143.3	121.2	93.7	75.3	56.9	46.8	40.4	41.3	36.7
22.5°	189.2	155.2	128.6	98.3	77.2	56.9	45.9	38.6	40.4	36.7
25°	208.5	169.0	138.7	103.8	79.9	56.9	45.0	37.7	38.6	35.8
27.5°	229.6	184.6	150.6	110.2	83.6	56.9	44.1	35.8	36.7	34.9
30°	253.5	203.0	161.7	118.5	87.3	58.8	43.2	34.9	35.8	34.0
32.5°	277.4	220.5	173.6	125.8	92.8	60.6	43.2	34.0	34.0	33.1
35°	303.1	238.8	185.5	134.1	97.4	62.5	43.2	33.1	33.1	31.2
37.5°	325.2	257.2	198.4	142.4	102.9	65.2	44.1	33.1	31.2	30.3
40°	347.2	272.8	209.4	149.7	107.5	67.1	45.0	33.1	30.3	28.5
42.5°	363.7	285.7	218.6	155.2	111.1	69.8	45.9	33.1	30.3	28.5
45°	379.4	297.6	225.0	159.8	113.9	72.6	47.8	33.1	29.4	27.6
47.5°	392.2	307.7	230.6	162.6	114.8	74.4	49.6	34.0	29.4	27.6
50°	405.1	317.8	234.2	164.4	113.0	75.3	50.5	34.9	28.5	27.6
52.5°	417.9	326.1	237.9	166.3	109.3	73.5	49.6	34.9	27.6	26.6
55°	429.9	336.2	240.7	166.3	104.7	70.7	48.7	34.0	25.7	24.8
57.5°	441.8	345.4	245.3	166.3	100.1	66.1	45.9	32.1	24.8	23.0
60°	455.6	357.3	253.5	168.1	93.7	61.5	42.3	30.3	23.0	21.1
62.5°	464.8	369.3	268.2	171.8	90.0	56.0	38.6	27.6	20.2	18.4
65°	462.9	373.8	285.7	181.0	93.7	50.5	34.9	24.8	17.5	16.5
67.5°	433.6	359.2	296.7	184.6	106.6	45.0	30.3	22.0	15.6	13.8
70°	350.9	317.8	275.6	198.4	109.3	40.4	27.6	18.4	13.8	11.9
72.5°	243.4	241.6	213.1	191.1	106.6	39.5	24.8	15.6	11.9	10.1
75°	181.9	162.6	173.6	149.7	99.2	41.3	22.0	12.9	9.2	8.3
77.5°	127.7	115.7	118.5	110.2	80.8	37.7	18.4	10.1	7.3	6.4
80°	79.0	69.8	74.4	65.2	53.3	28.5	13.8	7.3	4.6	4.6
82.5°	36.7	29.4	31.2	27.6	24.8	14.7	7.3	4.6	2.8	2.8
85°	11.0	8.3	8.3	6.4	5.5	5.5	3.7	1.8	1.8	0.9
87.5°	3.7	2.8	2.8	1.8	0.9	0.9	0.9	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

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Scaled Data Report



Cooper Lighting Solutions Photometric Lab  
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Peachtree City, GA 30269

Scaled Data Report





— Vertical Plane Through 0-Deg Lateral

- - - Horizontal Cone Through 65-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)