

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-A2-727-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-A2-727-U-T5S-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 2000LM, 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: 1865 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

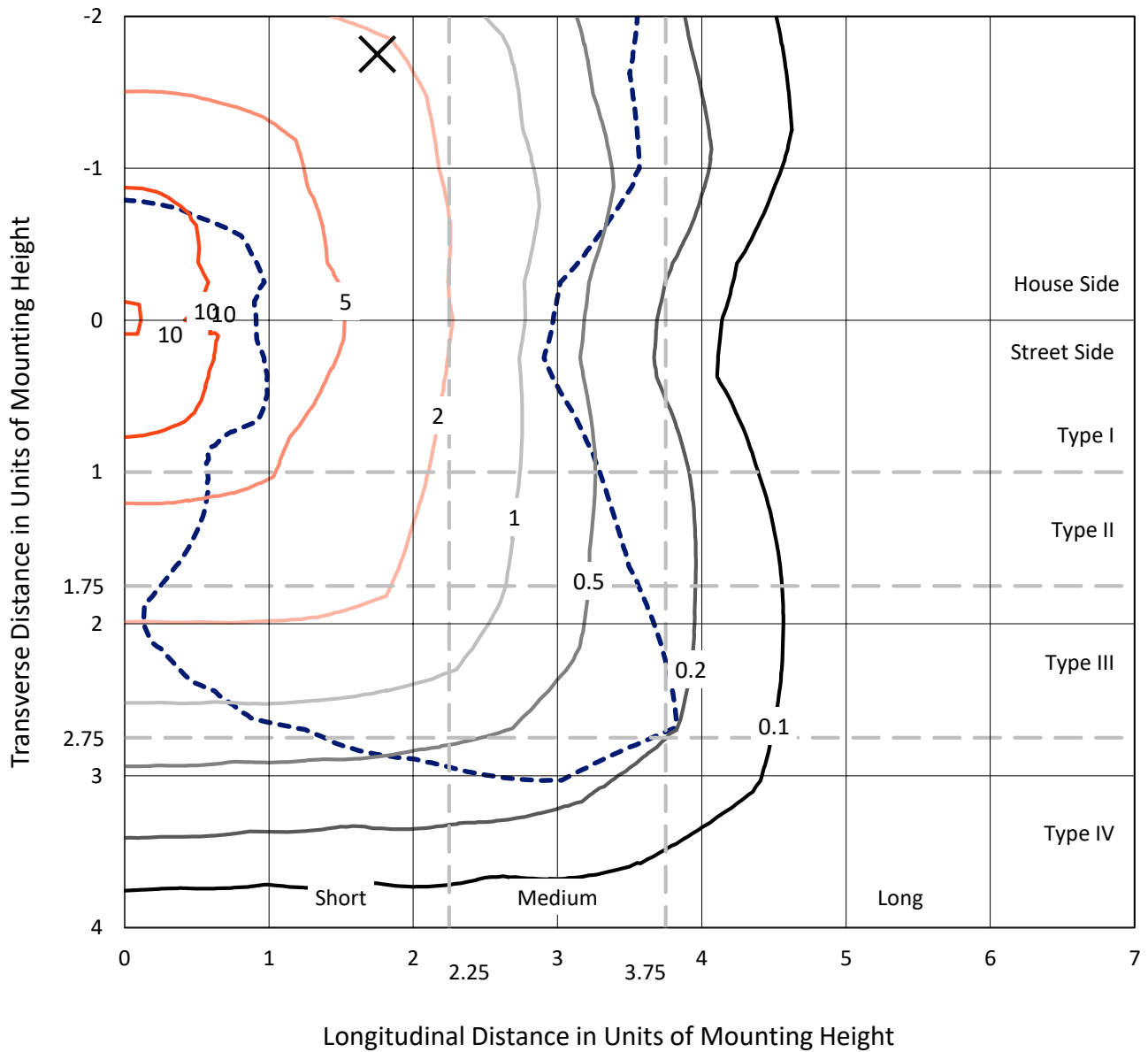
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

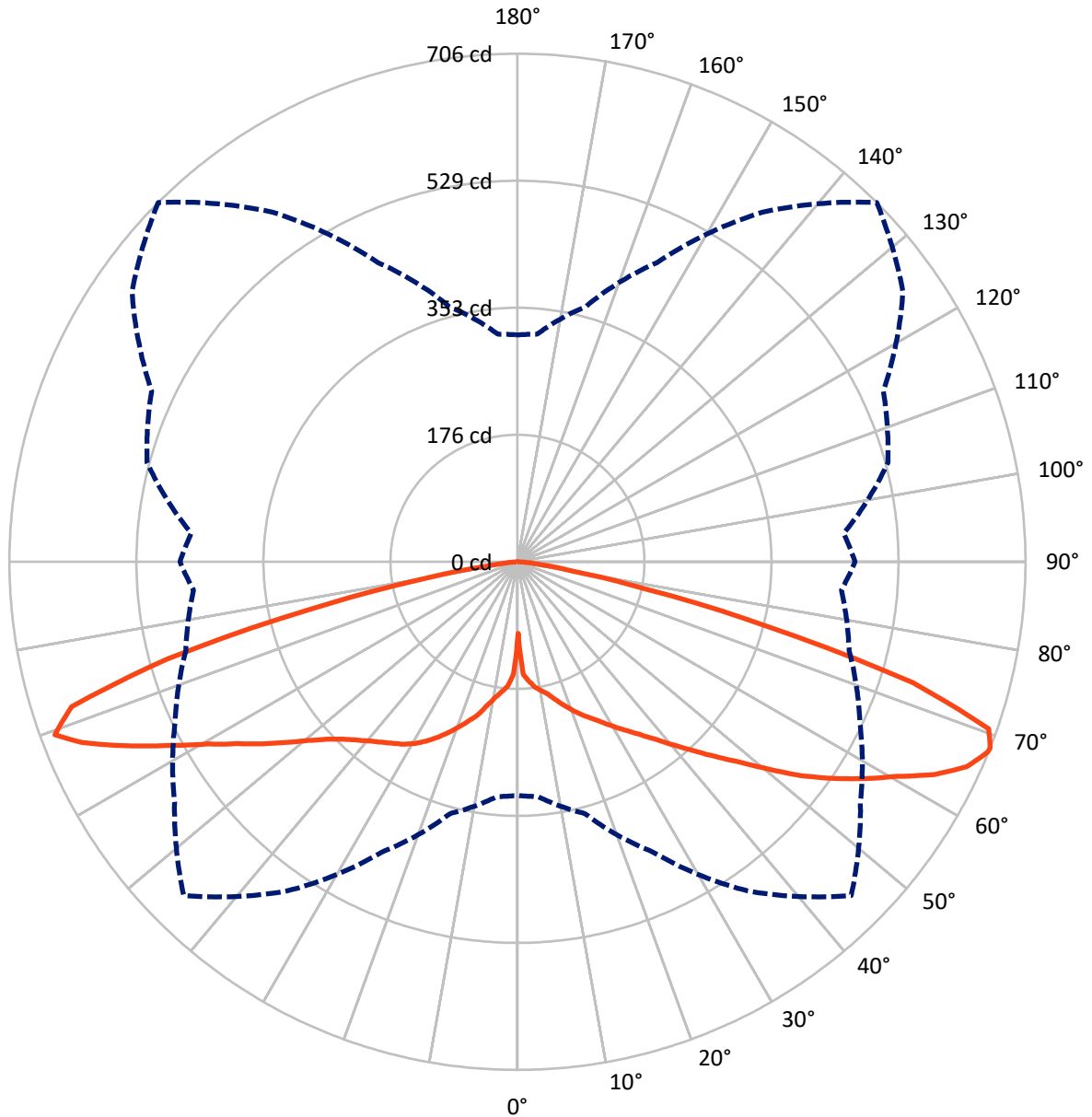
✕ Max cd
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 13.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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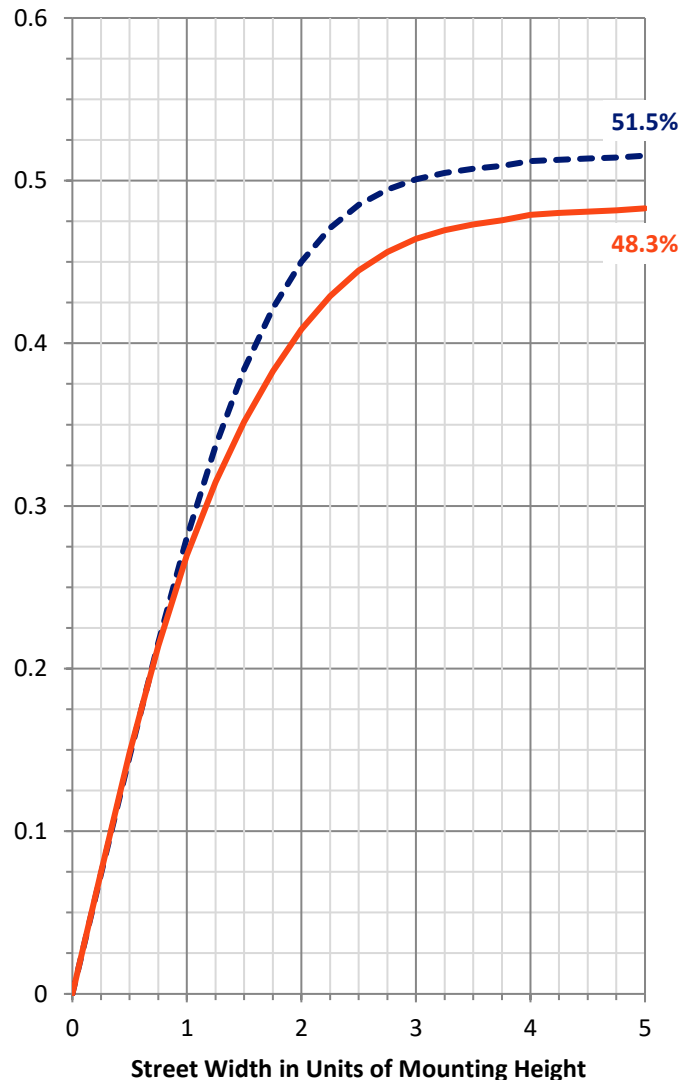
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	962.5	0.0	962.5
	% Fixture	51.6	0.0	51.6
Street Side	Lumens	902.5	0.0	902.5
	% Fixture	48.4	0.0	48.4
Total	Lumens	1865.0	0.0	1865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.2	0.9
10°-20°	57.7	3.1
20°-30°	115.1	6.2
30°-40°	190.1	10.2
40°-50°	282.2	15.1
50°-60°	395.9	21.2
60°-70°	494.0	26.5
70°-80°	288.3	15.5
80°-90°	25.5	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°	1865.0	100.0
0°-180°	1865.0	100.0

Coefficient of Utilization



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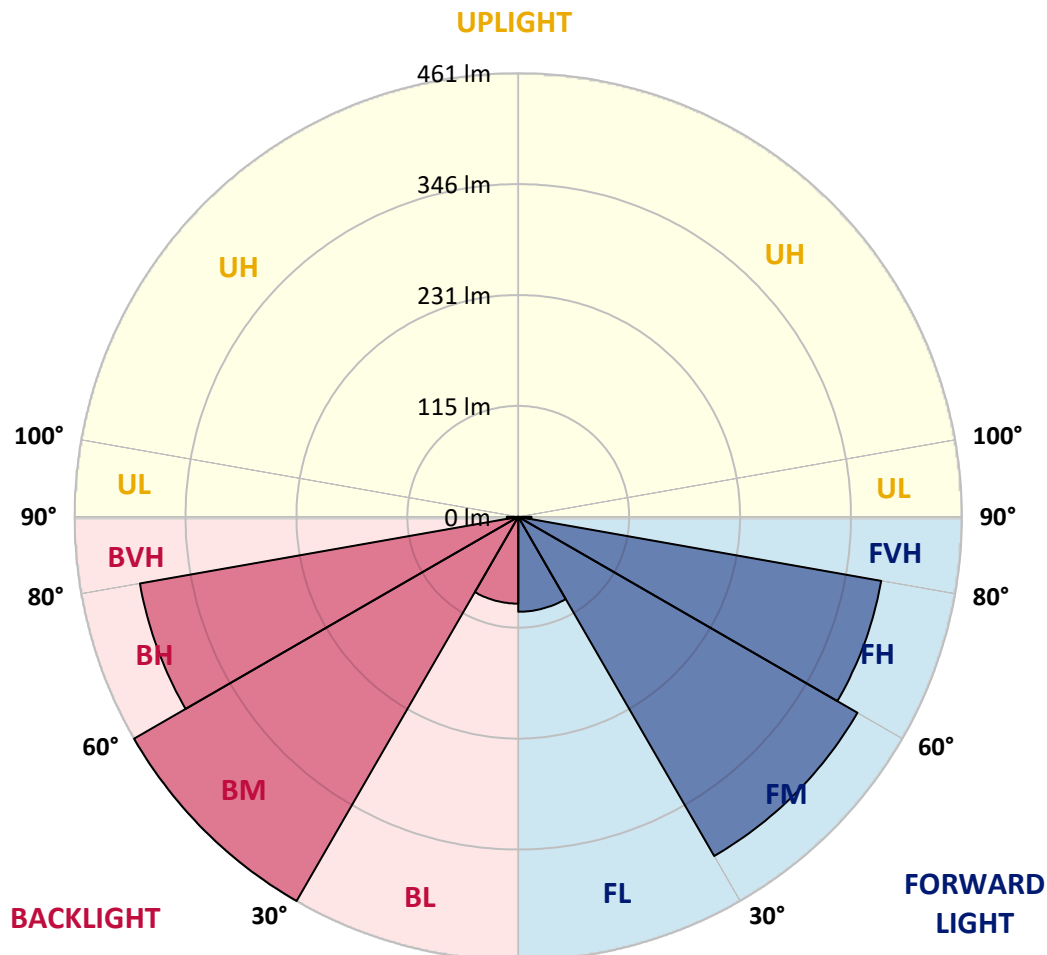
CATALOG NUMBER: BRT6-A2-727-U-T5S-XX-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	98.7	5.3			
FM (30°-60°)	407.1	21.8			
FH (60°-80°)	383.1	20.5			G0/660
FVH (80°-90°)	13.7	0.7			G1/100
BL (0°-30°)	90.3	4.8	B0/110		
BM (30°-60°)	461.1	24.7	B1/1000		
BH (60°-80°)	399.3	21.4	B1/500		G0/660
BVH (80°-90°)	11.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2.5°	141.1	142.1	154.3	156.6	153.8	155.2	152.4	153.3	149.6	152.4	150.1
5°	176.3	166.0	166.5	179.1	174.9	173.0	166.9	170.7	161.3	166.5	165.1
7.5°	188.0	179.1	178.2	190.4	189.4	181.9	179.1	176.8	172.6	171.6	171.2
10°	199.3	199.3	192.7	201.2	200.7	191.8	188.5	183.8	180.1	175.8	174.9
12.5°	210.5	210.1	208.7	212.0	213.8	204.0	197.9	190.4	188.5	180.5	179.6
15°	223.7	222.7	221.8	223.2	227.4	219.5	207.3	198.8	195.5	185.7	183.8
17.5°	238.7	238.2	237.3	237.7	241.0	230.7	217.1	208.7	203.0	191.3	189.0
20°	251.8	250.9	251.3	252.3	256.0	242.9	226.5	219.9	211.5	199.3	195.1
22.5°	264.0	264.0	264.5	265.4	270.6	255.6	238.7	232.1	221.3	207.7	202.6
25°	275.7	275.7	277.6	278.5	283.7	267.8	250.4	244.3	232.6	217.6	211.5
27.5°	287.9	287.0	287.4	288.9	295.4	279.5	261.7	255.6	243.8	229.8	223.7
30°	298.2	297.3	297.8	299.2	306.7	289.8	272.4	265.4	255.6	246.7	241.0
32.5°	307.1	306.2	306.2	308.1	316.1	298.7	281.8	275.3	269.2	268.2	262.6
35°	315.1	313.7	315.1	316.1	323.6	305.7	288.4	284.2	282.3	289.3	284.6
37.5°	322.2	320.7	323.1	322.2	329.7	313.7	294.5	293.1	296.8	310.9	307.1
40°	327.3	326.8	331.5	329.2	336.2	322.6	302.9	303.9	312.8	333.4	330.6
42.5°	324.0	324.5	332.9	335.7	342.8	332.9	313.7	317.5	330.6	358.7	354.5
45°	318.4	320.3	330.1	339.5	350.8	345.1	328.2	332.5	350.8	384.0	380.3
47.5°	308.1	310.0	325.4	339.5	359.2	361.1	342.8	350.8	372.8	409.4	405.6
50°	303.9	305.7	322.2	340.4	369.0	381.7	362.0	372.3	393.4	432.3	430.0
52.5°	306.7	310.4	325.4	347.0	382.6	407.0	379.8	393.9	414.5	453.4	452.5
55°	315.6	317.5	335.3	360.1	402.8	435.2	402.3	416.4	435.2	472.7	473.1
57.5°	326.8	328.2	348.4	378.4	426.7	463.8	425.8	442.2	452.0	488.1	490.0
60°	341.8	343.3	366.2	401.9	454.9	498.5	454.4	470.3	464.7	499.9	503.2
62.5°	353.6	355.0	380.8	426.3	490.5	543.0	487.7	493.8	472.7	503.2	509.3
65°	348.4	349.8	382.2	444.1	526.6	593.7	529.9	510.7	478.3	491.4	502.7
67.5°	331.5	333.9	366.7	447.4	553.8	645.2	573.5	522.8	478.3	461.9	476.4
68°	324.5	327.3	362.0	444.5	558.0	655.6	581.5	524.7	476.9	451.6	468.9
70°	287.9	289.8	326.4	416.9	560.8	686.0	612.4	526.1	460.0	398.6	418.7
72.5°	182.9	186.2	212.4	302.0	469.9	651.3	606.8	477.4	392.0	291.2	300.6
75°	95.7	94.3	109.3	160.8	295.4	504.6	518.6	372.8	284.2	164.1	167.9
77.5°	50.2	48.8	53.9	76.0	144.4	300.6	378.4	268.2	175.8	83.0	89.6
80°	32.8	31.9	32.8	41.3	59.1	144.0	224.6	164.6	101.8	35.2	35.6
82.5°	23.9	21.6	23.0	25.8	31.4	43.6	79.2	67.5	44.1	14.5	15.9
85°	13.1	11.7	11.3	15.0	14.5	15.9	12.7	10.3	8.4	5.6	5.6
87.5°	7.5	4.7	3.8	4.7	3.8	3.8	3.3	2.8	3.3	2.3	2.3
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°	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2.5°	151.0	154.7	153.3	152.9	156.6	157.1	157.1	151.0	145.4	149.6
5°	161.8	164.6	164.6	166.9	166.5	168.3	166.5	156.2	159.4	155.7
7.5°	172.1	169.3	172.6	171.6	175.8	172.1	170.2	162.2	162.7	167.4
10°	176.8	173.5	177.3	175.8	181.9	179.1	175.4	167.9	167.4	172.6
12.5°	182.4	177.7	183.3	181.5	188.5	187.1	182.4	175.4	175.4	180.1
15°	188.0	182.9	190.4	189.0	198.8	197.4	192.7	185.2	187.6	190.4
17.5°	193.2	189.0	198.8	197.9	209.6	208.7	204.5	197.4	200.7	201.6
20°	199.8	196.0	208.2	208.7	220.4	220.9	215.7	211.0	213.4	214.8
22.5°	208.2	206.3	219.9	218.5	231.2	233.1	228.8	226.0	228.4	230.2
25°	219.5	219.0	231.2	228.8	241.0	246.7	242.4	242.4	245.7	247.6
27.5°	235.9	232.6	242.9	240.1	252.7	261.7	258.4	261.2	263.5	265.9
30°	254.6	247.6	254.6	251.8	265.9	277.1	276.2	279.9	283.7	286.0
32.5°	275.7	263.5	266.3	263.5	279.5	293.1	294.5	301.0	304.8	306.2
35°	298.7	279.9	279.5	276.7	295.0	311.8	315.6	324.0	326.4	328.2
37.5°	321.2	296.4	294.0	292.1	313.2	332.9	335.7	346.5	347.0	347.5
40°	342.8	314.6	312.3	311.4	334.8	353.1	358.7	367.6	367.6	366.2
42.5°	363.9	332.9	333.4	332.9	358.3	376.5	381.2	386.9	384.5	384.0
45°	387.8	350.3	357.3	358.3	385.9	400.9	401.4	405.6	404.7	403.7
47.5°	413.1	368.1	384.0	384.5	415.5	429.1	423.9	426.3	425.3	423.4
50°	439.4	387.8	410.3	413.1	452.5	456.7	446.4	446.9	445.5	442.7
52.5°	461.9	410.3	435.2	442.7	493.3	491.0	471.7	468.0	463.8	459.1
55°	483.0	434.2	460.0	475.0	530.8	522.8	497.1	486.7	475.5	472.7
57.5°	497.5	455.3	485.8	502.7	568.3	556.1	519.1	496.6	476.0	471.3
60°	504.1	477.4	515.8	534.1	604.9	584.7	533.6	493.8	465.6	459.5
62.5°	498.5	497.1	539.3	570.2	650.4	606.3	533.2	477.8	439.8	433.3
65°	484.4	515.3	555.7	610.1	686.0	611.0	513.5	439.8	391.6	384.0
67.5°	460.0	530.8	560.8	647.1	704.8	598.8	471.7	378.4	331.5	325.4
68°	454.9	532.7	560.8	653.7	705.7	592.7	458.6	367.2	317.5	315.1
70°	418.7	531.8	559.4	677.6	694.5	538.8	388.7	289.3	251.8	242.9
72.5°	325.4	471.3	506.9	632.6	574.0	376.1	235.9	161.8	143.0	135.0
75°	197.9	345.6	376.5	476.9	359.2	202.6	127.1	88.6	79.7	79.7
77.5°	108.3	215.7	251.8	320.3	184.3	107.9	70.8	52.5	49.7	53.0
80°	44.1	114.4	149.6	153.8	76.0	53.5	44.5	32.8	32.4	33.8
82.5°	16.9	45.0	49.7	39.4	32.8	31.4	28.1	22.0	21.1	24.9
85°	5.6	8.4	10.3	10.8	16.4	17.4	18.8	13.1	12.7	16.4
87.5°	2.8	3.3	2.8	3.3	3.8	3.8	3.8	3.8	4.2	8.0
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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Scaled Data Report





— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



--- HS — SS



0°

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





(END OF REPORT)