

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-A2-830-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-A2-830-U-T5S-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 2000LM, TYPE V SQUARE SYMMETRICAL, BLACK FINISH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1772 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

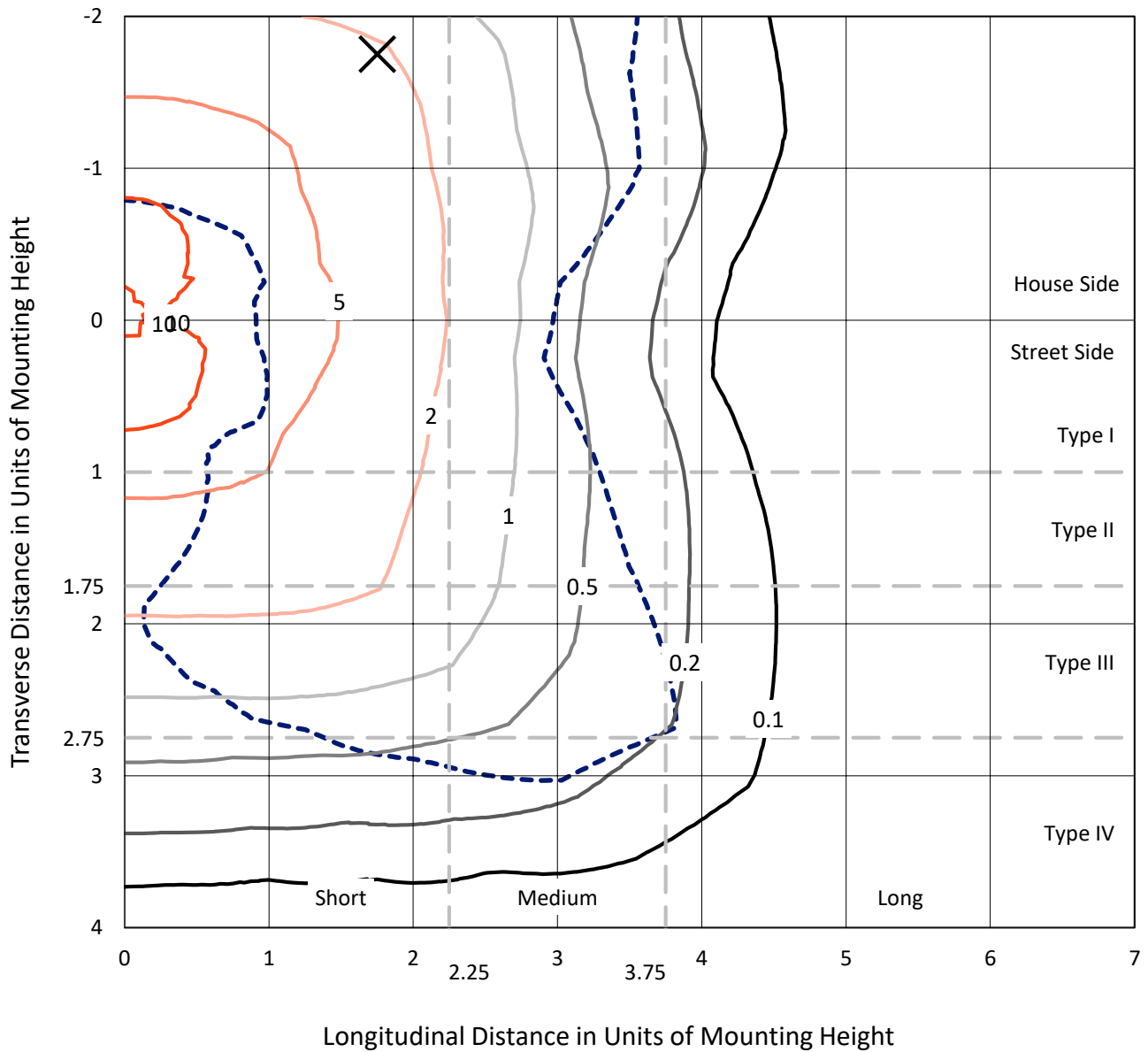
Input Watts (W): 20.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

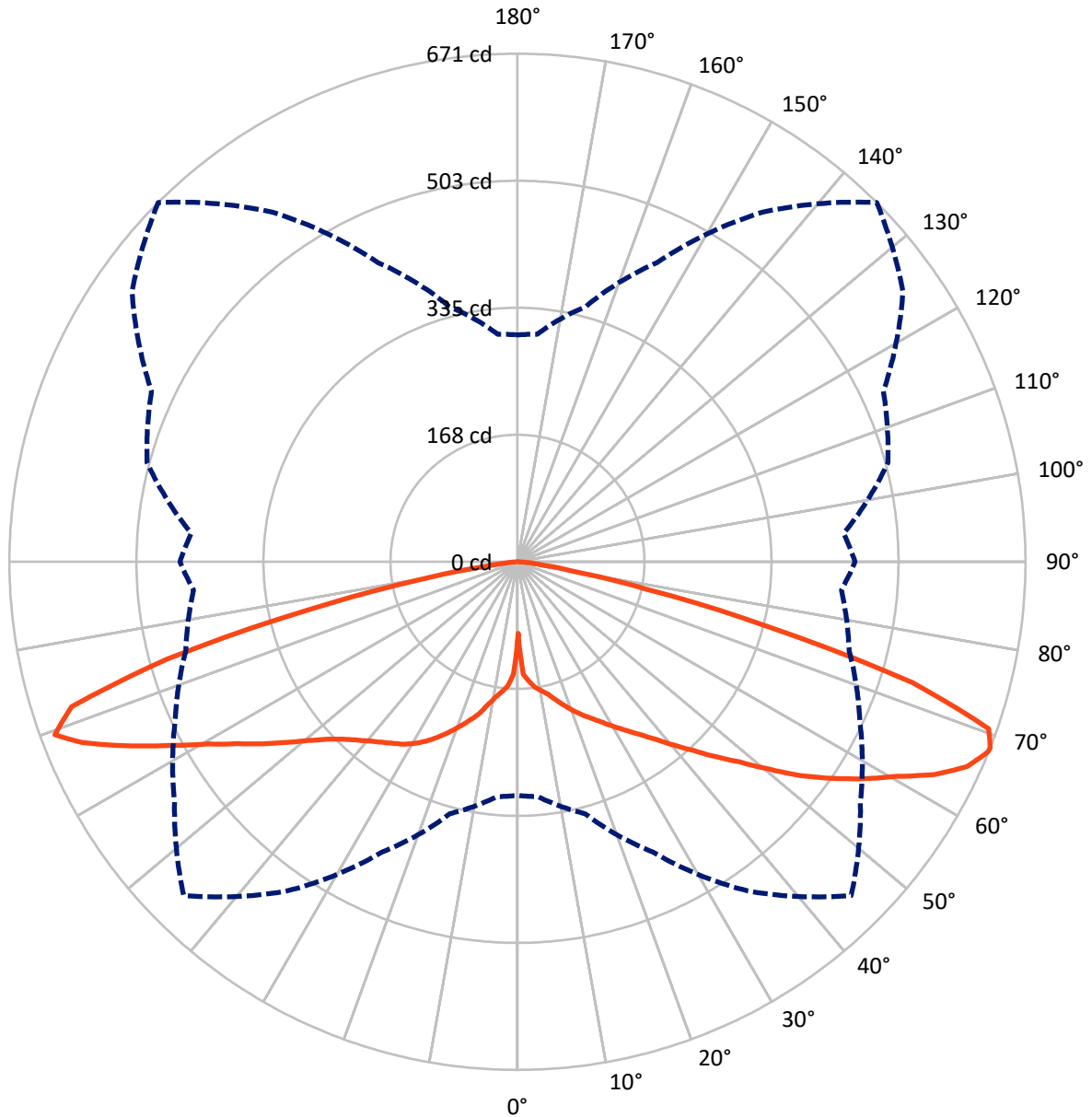
✕ Max cd
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 12.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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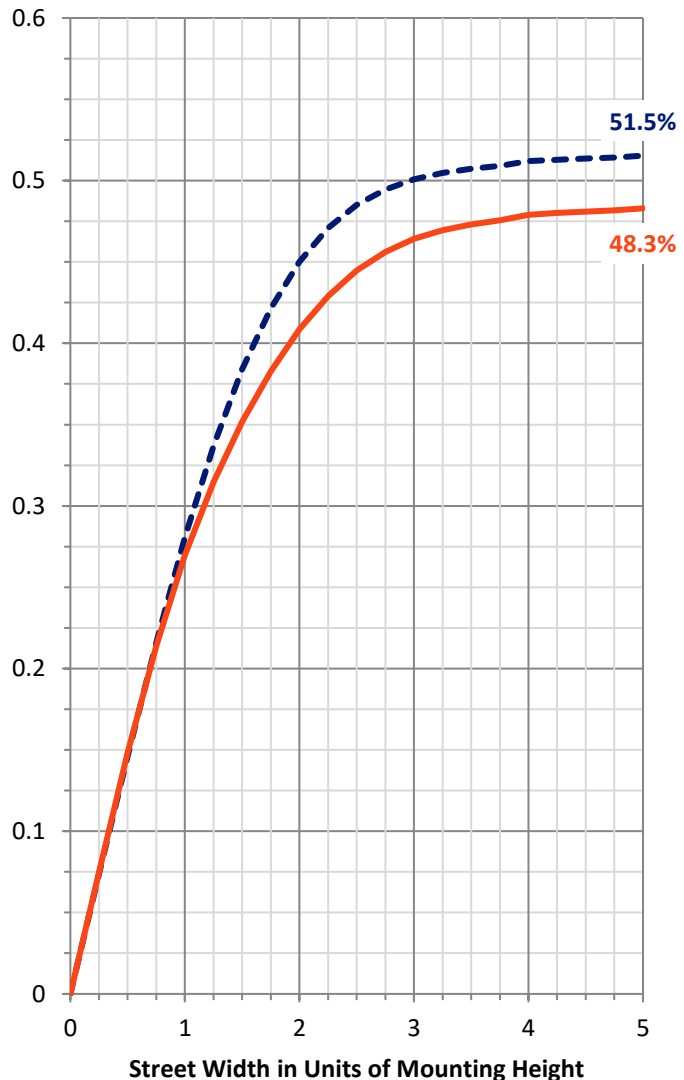
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	914.5	0.0	914.5
	% Fixture	51.6	0.0	51.6
Street Side	Lumens	857.5	0.0	857.5
	% Fixture	48.4	0.0	48.4
Total	Lumens	1772.0	0.0	1772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.4	0.9
10°-20°	54.8	3.1
20°-30°	109.3	6.2
30°-40°	180.6	10.2
40°-50°	268.1	15.1
50°-60°	376.2	21.2
60°-70°	469.4	26.5
70°-80°	273.9	15.5
80°-90°	24.3	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°	1772.0	100.0
0°-180°	1772.0	100.0

Coefficient of Utilization



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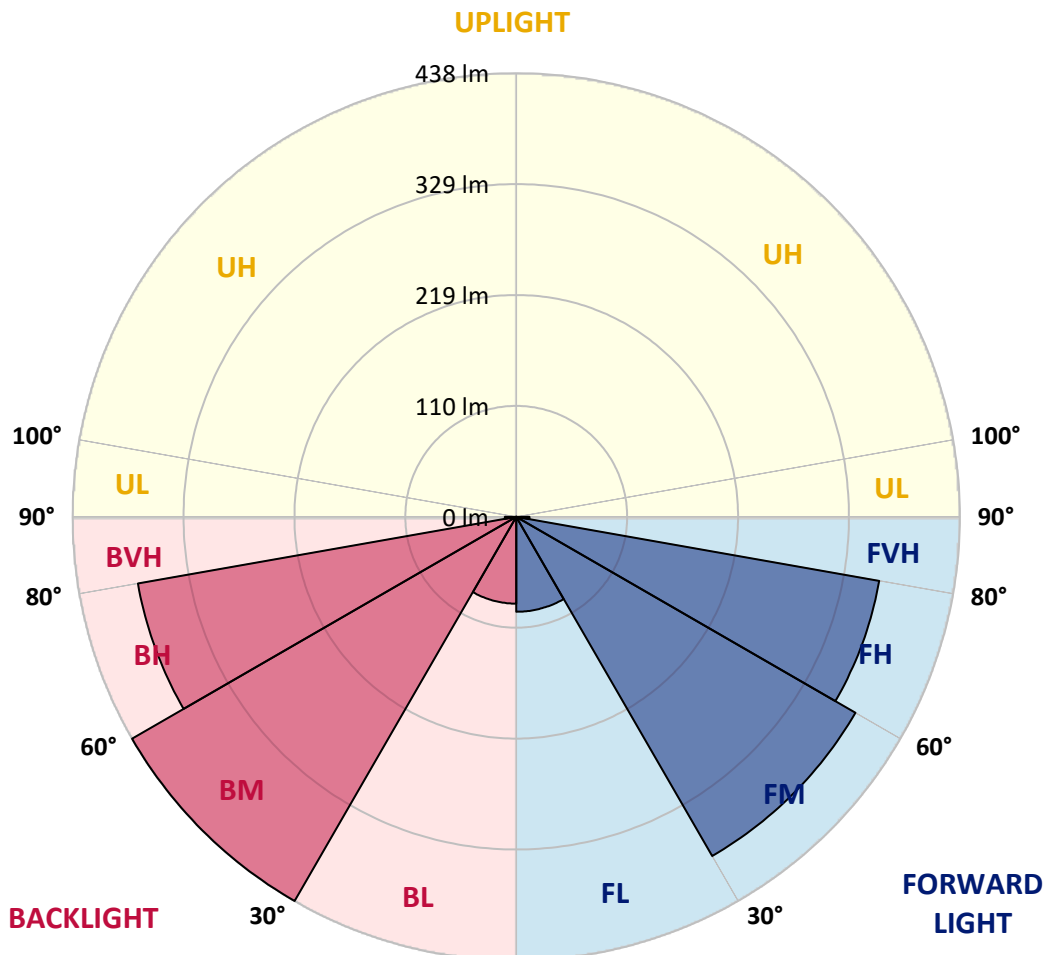
CATALOG NUMBER: BRT6-A2-830-U-T5S-XX-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	93.8	5.3			
FM	(30°-60°)	386.8	21.8			
FH	(60°-80°)	364.0	20.5			G0/660
FVH	(80°-90°)	13.0	0.7			G1/100
BL	(0°-30°)	85.8	4.8	B0/110		
BM	(30°-60°)	438.1	24.7	B1/1000		
BH	(60°-80°)	379.4	21.4	B1/500		G0/660
BVH	(80°-90°)	11.2	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°	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
2.5°	134.1	135.0	146.6	148.8	146.1	147.5	144.8	145.7	142.1	144.8	142.6
5°	167.5	157.7	158.2	170.2	166.2	164.4	158.6	162.2	153.3	158.2	156.8
7.5°	178.7	170.2	169.3	180.9	180.0	172.9	170.2	168.0	164.0	163.1	162.6
10°	189.4	189.4	183.1	191.1	190.7	182.2	179.1	174.7	171.1	167.1	166.2
12.5°	200.0	199.6	198.3	201.4	203.2	193.8	188.0	180.9	179.1	171.5	170.6
15°	212.5	211.6	210.7	212.1	216.1	208.5	196.9	188.9	185.8	176.4	174.7
17.5°	226.8	226.3	225.4	225.9	229.0	219.2	206.3	198.3	192.9	181.8	179.6
20°	239.3	238.4	238.8	239.7	243.3	230.8	215.2	209.0	200.9	189.4	185.3
22.5°	250.8	250.8	251.3	252.2	257.1	242.8	226.8	220.5	210.3	197.4	192.5
25°	262.0	262.0	263.8	264.7	269.6	254.4	237.9	232.1	221.0	206.7	200.9
27.5°	273.6	272.7	273.1	274.5	280.7	265.5	248.6	242.8	231.7	218.3	212.5
30°	283.4	282.5	282.9	284.3	291.4	275.3	258.9	252.2	242.8	234.4	229.0
32.5°	291.8	290.9	290.9	292.7	300.3	283.8	267.8	261.5	255.7	254.8	249.5
35°	299.4	298.1	299.4	300.3	307.4	290.5	274.0	270.0	268.2	274.9	270.4
37.5°	306.1	304.7	307.0	306.1	313.2	298.1	279.8	278.5	282.0	295.4	291.8
40°	311.0	310.5	315.0	312.8	319.5	306.5	287.8	288.7	297.2	316.8	314.1
42.5°	307.9	308.3	316.3	319.0	325.7	316.3	298.1	301.6	314.1	340.8	336.8
45°	302.5	304.3	313.7	322.6	333.3	327.9	311.9	315.9	333.3	364.9	361.3
47.5°	292.7	294.5	309.2	322.6	341.3	343.1	325.7	333.3	354.2	389.0	385.4
50°	288.7	290.5	306.1	323.5	350.6	362.7	344.0	353.8	373.8	410.8	408.6
52.5°	291.4	294.9	309.2	329.7	363.6	386.7	360.9	374.3	393.9	430.8	429.9
55°	299.8	301.6	318.6	342.2	382.7	413.5	382.3	395.6	413.5	449.1	449.5
57.5°	310.5	311.9	331.0	359.6	405.4	440.6	404.6	420.1	429.5	463.8	465.6
60°	324.8	326.1	348.0	381.8	432.2	473.6	431.7	446.9	441.5	474.9	478.1
62.5°	335.9	337.3	361.8	405.0	466.0	515.9	463.4	469.2	449.1	478.1	483.9
65°	331.0	332.4	363.1	421.9	500.3	564.1	503.5	485.2	454.5	466.9	477.6
67.5°	315.0	317.2	348.4	425.0	526.2	613.1	544.9	496.8	454.5	438.9	452.7
68°	308.3	311.0	344.0	422.4	530.2	622.9	552.5	498.6	453.1	429.1	445.5
70°	273.6	275.3	310.1	396.1	532.9	651.8	581.9	499.9	437.1	378.7	397.9
72.5°	173.8	176.9	201.8	286.9	446.4	618.9	576.5	453.6	372.5	276.7	285.6
75°	90.9	89.6	103.8	152.8	280.7	479.4	492.8	354.2	270.0	155.9	159.5
77.5°	47.7	46.3	51.2	72.2	137.2	285.6	359.6	254.8	167.1	78.9	85.1
80°	31.2	30.3	31.2	39.2	56.1	136.8	213.4	156.4	96.7	33.4	33.9
82.5°	22.7	20.5	21.8	24.5	29.9	41.4	75.3	64.2	41.9	13.8	15.1
85°	12.5	11.1	10.7	14.3	13.8	15.1	12.0	9.8	8.0	5.3	5.3
87.5°	7.1	4.5	3.6	4.5	3.6	3.6	3.1	2.7	3.1	2.2	2.2
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°	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
2.5°	143.5	147.0	145.7	145.2	148.8	149.3	149.3	143.5	138.1	142.1
5°	153.7	156.4	156.4	158.6	158.2	159.9	158.2	148.4	151.5	147.9
7.5°	163.5	160.8	164.0	163.1	167.1	163.5	161.7	154.2	154.6	159.1
10°	168.0	164.8	168.4	167.1	172.9	170.2	166.6	159.5	159.1	164.0
12.5°	173.3	168.9	174.2	172.4	179.1	177.8	173.3	166.6	166.6	171.1
15°	178.7	173.8	180.9	179.6	188.9	187.6	183.1	176.0	178.2	180.9
17.5°	183.6	179.6	188.9	188.0	199.2	198.3	194.3	187.6	190.7	191.6
20°	189.8	186.2	197.8	198.3	209.4	209.8	204.9	200.5	202.7	204.1
22.5°	197.8	196.0	209.0	207.6	219.7	221.4	217.4	214.8	217.0	218.8
25°	208.5	208.1	219.7	217.4	229.0	234.4	230.3	230.3	233.5	235.2
27.5°	224.1	221.0	230.8	228.1	240.1	248.6	245.5	248.2	250.4	252.6
30°	241.9	235.2	241.9	239.3	252.6	263.3	262.4	266.0	269.6	271.8
32.5°	262.0	250.4	253.1	250.4	265.5	278.5	279.8	286.0	289.6	290.9
35°	283.8	266.0	265.5	262.9	280.2	296.3	299.8	307.9	310.1	311.9
37.5°	305.2	281.6	279.4	277.6	297.6	316.3	319.0	329.3	329.7	330.1
40°	325.7	299.0	296.7	295.8	318.1	335.5	340.8	349.3	349.3	348.0
42.5°	345.7	316.3	316.8	316.3	340.4	357.8	362.2	367.6	365.3	364.9
45°	368.5	332.8	339.5	340.4	366.7	380.9	381.4	385.4	384.5	383.6
47.5°	392.5	349.7	364.9	365.3	394.7	407.7	402.8	405.0	404.1	402.3
50°	417.5	368.5	389.8	392.5	429.9	434.0	424.2	424.6	423.3	420.6
52.5°	438.9	389.8	413.5	420.6	468.7	466.5	448.2	444.6	440.6	436.2
55°	458.9	412.6	437.1	451.3	504.4	496.8	472.3	462.5	451.8	449.1
57.5°	472.7	432.6	461.6	477.6	540.0	528.4	493.2	471.8	452.2	447.8
60°	479.0	453.6	490.1	507.5	574.7	555.6	507.0	469.2	442.4	436.6
62.5°	473.6	472.3	512.4	541.8	618.0	576.1	506.6	454.0	417.9	411.7
65°	460.2	489.6	528.0	579.6	651.8	580.5	487.9	417.9	372.0	364.9
67.5°	437.1	504.4	532.9	614.8	669.6	569.0	448.2	359.6	315.0	309.2
68°	432.2	506.1	532.9	621.1	670.5	563.2	435.7	348.9	301.6	299.4
70°	397.9	505.2	531.5	643.8	659.8	511.9	369.4	274.9	239.3	230.8
72.5°	309.2	447.8	481.6	601.0	545.3	357.3	224.1	153.7	135.9	128.3
75°	188.0	328.4	357.8	453.1	341.3	192.5	120.7	84.2	75.7	75.7
77.5°	102.9	204.9	239.3	304.3	175.1	102.5	67.3	49.9	47.2	50.3
80°	41.9	108.7	142.1	146.1	72.2	50.8	42.3	31.2	30.7	32.1
82.5°	16.0	42.8	47.2	37.4	31.2	29.9	26.7	20.9	20.0	23.6
85°	5.3	8.0	9.8	10.2	15.6	16.5	17.8	12.5	12.0	15.6
87.5°	2.7	3.1	2.7	3.1	3.6	3.6	3.6	3.6	4.0	7.6
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)