

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-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-A4-830-U-T4-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 2000LM, WIDE PATH ASYMMETRICAL, BLACK FINISH
Light Source: (10) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1743 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

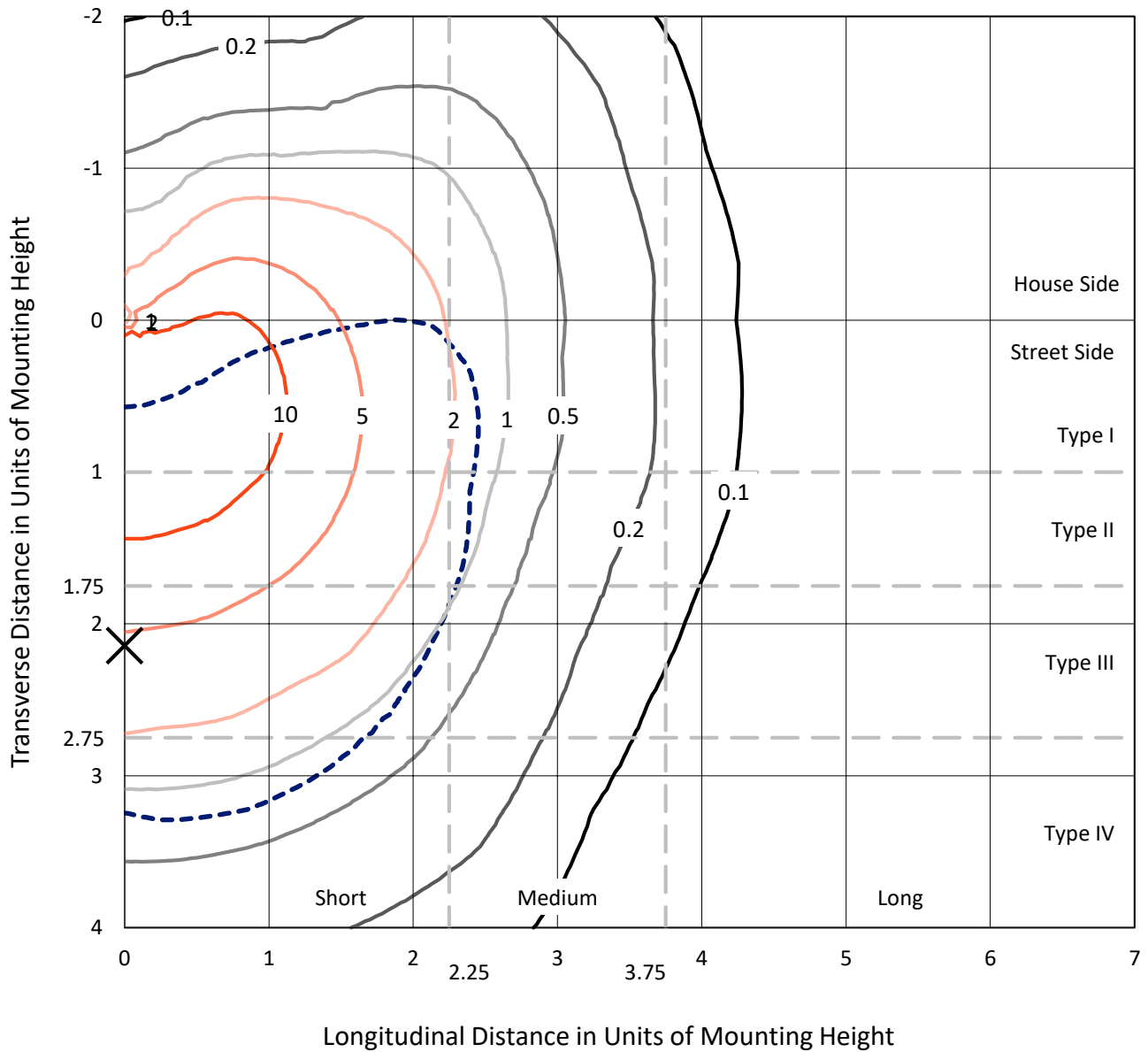
Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

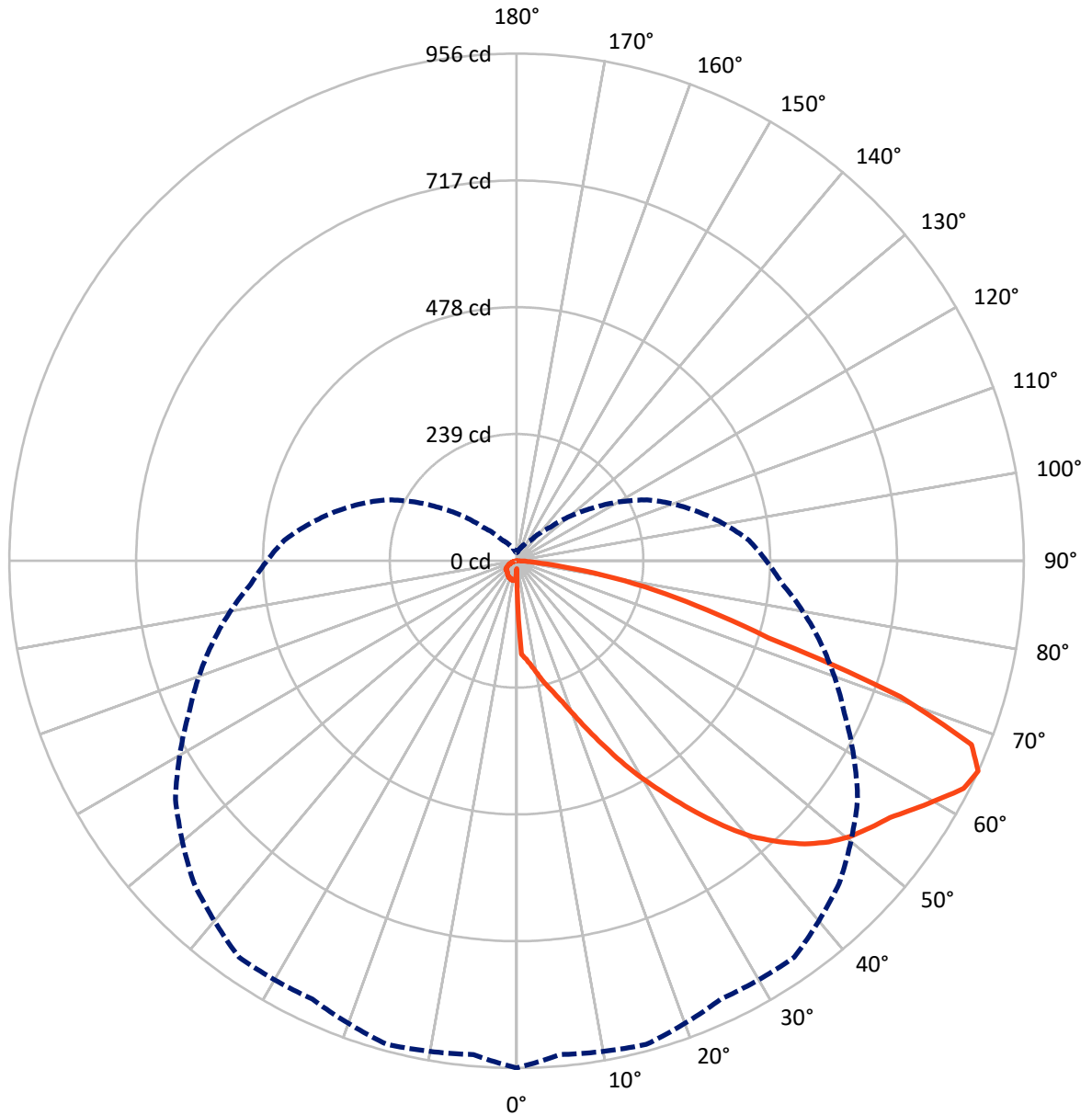
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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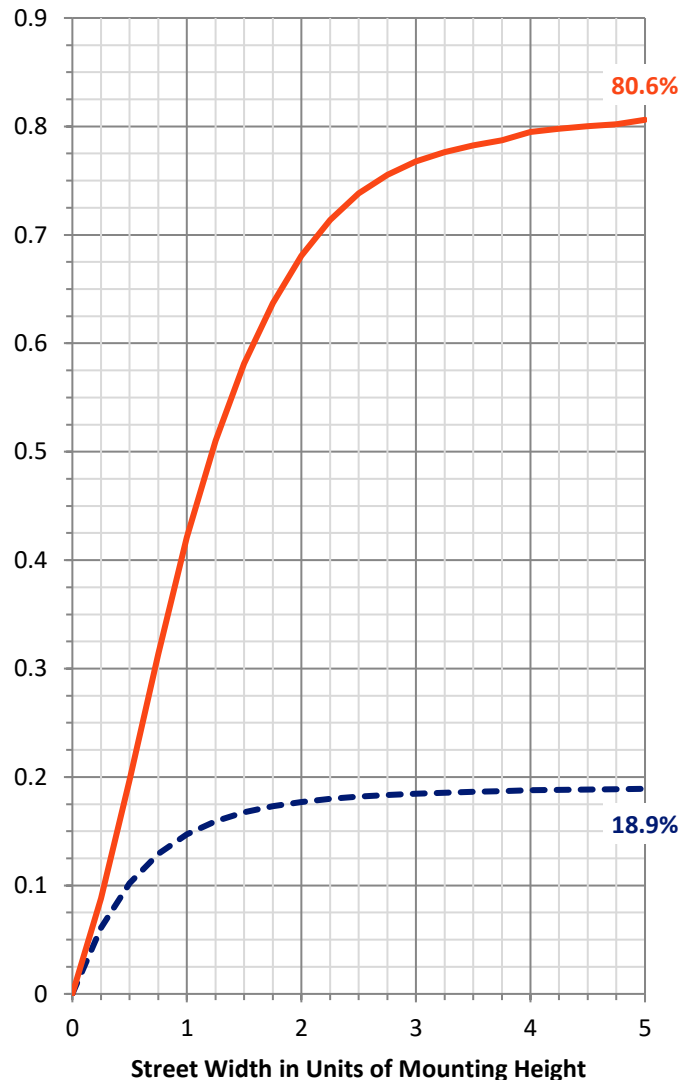
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	331.3	0.0	331.3
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1411.7	0.0	1411.7
	% Fixture	81.0	0.0	81.0
Total	Lumens	1743.0	0.0	1743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.6
10°-20°	42.7	2.5
20°-30°	99.7	5.7
30°-40°	195.9	11.2
40°-50°	307.0	17.6
50°-60°	403.1	23.1
60°-70°	451.9	25.9
70°-80°	206.3	11.8
80°-90°	25.8	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°	1743.0	100.0
0°-180°	1743.0	100.0

Coefficient of Utilization



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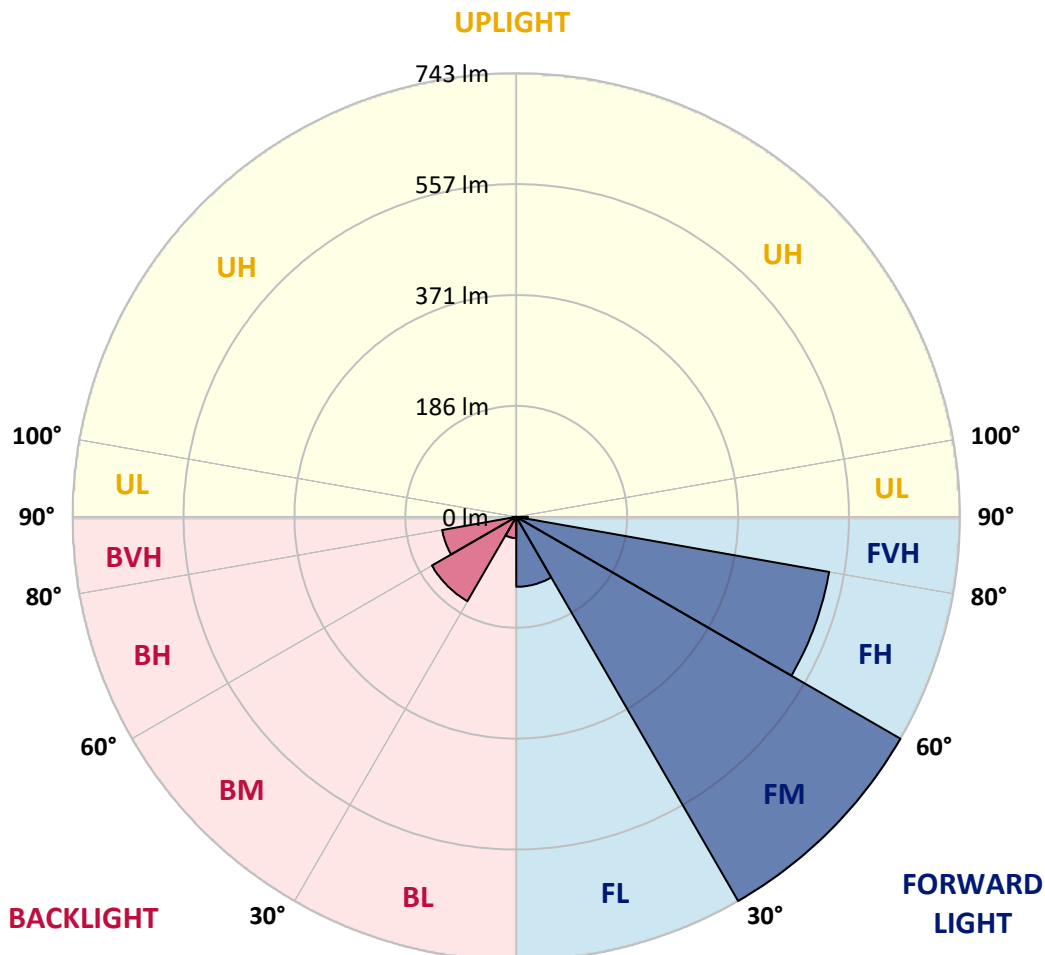
CATALOG NUMBER: BRT6-A4-830-U-T4-XX-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	117.2	6.7			
FM (30°-60°)	742.9	42.6			
FH (60°-80°)	532.2	30.5			G0/660
FVH (80°-90°)	19.4	1.1			G1/100
BL (0°-30°)	35.8	2.1	B0/110		
BM (30°-60°)	163.1	9.4	B0/220		
BH (60°-80°)	126.0	7.2	B1/500		G1/500
BVH (80°-90°)	6.3	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°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
2.5°	176.3	172.8	161.5	151.0	140.5	126.6	118.7	108.2	97.8	88.2	87.3
5°	185.9	185.1	185.1	171.1	165.9	151.9	144.0	131.8	123.1	110.0	105.6
7.5°	199.0	199.0	199.0	193.8	181.6	171.1	161.5	144.9	136.2	119.6	117.0
10°	216.5	216.5	215.6	213.9	199.0	191.2	175.5	160.6	149.3	131.8	125.7
12.5°	236.6	235.7	234.0	231.3	215.6	209.5	192.1	178.1	162.4	142.3	135.3
15°	255.8	256.7	254.9	251.4	236.6	228.7	209.5	196.4	176.3	155.4	145.8
17.5°	279.3	280.2	276.7	274.1	260.1	250.5	230.5	215.6	192.9	171.1	159.8
20°	310.8	309.0	306.4	303.8	288.1	275.9	254.0	239.2	213.9	189.4	175.5
22.5°	347.4	345.7	343.9	338.7	319.5	309.0	282.8	265.4	235.7	209.5	193.8
25°	389.3	390.2	383.2	380.6	357.9	347.4	316.0	295.9	262.8	232.2	213.9
27.5°	435.6	436.5	429.5	426.0	404.2	390.2	357.9	331.7	291.6	256.7	237.4
30°	481.9	483.6	480.1	476.6	451.3	436.5	398.1	369.3	323.9	282.8	260.1
32.5°	529.9	533.4	527.3	528.1	503.7	486.2	444.3	410.3	361.4	312.5	286.3
35°	581.4	584.0	579.7	580.5	555.2	538.6	490.6	451.3	397.2	342.2	314.3
37.5°	633.8	633.8	630.3	631.2	603.2	583.1	530.8	493.2	430.4	370.1	340.5
40°	683.5	683.5	680.0	674.8	651.2	623.3	575.3	527.3	462.7	392.0	359.7
42.5°	723.7	722.8	716.7	714.1	689.6	660.8	613.7	557.8	488.9	413.8	378.0
45°	761.2	760.4	749.9	748.1	724.6	695.8	646.9	589.3	510.7	432.1	395.5
47.5°	791.8	791.8	781.3	780.4	755.1	728.1	674.8	615.4	531.6	452.2	408.5
50°	816.2	816.2	804.9	809.2	776.1	758.6	698.4	639.0	552.6	468.8	425.1
52.5°	835.4	838.9	828.4	834.6	798.8	786.5	721.9	658.2	570.9	483.6	440.0
55°	853.8	861.6	850.3	857.3	819.7	812.7	744.6	678.3	586.6	495.0	454.8
57.5°	882.6	886.1	875.6	876.5	842.4	831.9	766.5	694.0	600.6	504.6	464.4
60°	913.1	910.5	904.4	893.0	871.2	852.0	783.9	703.6	612.0	514.2	474.0
62.5°	945.4	927.1	929.7	908.8	897.4	864.2	794.4	705.4	612.8	517.7	479.3
65°	955.9	934.1	943.7	911.4	912.3	859.9	784.8	681.8	592.7	502.8	470.5
67.5°	924.5	904.4	923.6	871.2	893.9	806.6	727.2	605.8	536.9	456.6	435.6
70°	767.3	731.5	765.6	706.2	731.5	617.2	536.9	421.6	388.5	337.0	331.7
72.5°	495.8	516.8	528.1	510.7	474.0	402.4	322.1	270.6	274.1	232.2	241.8
75°	370.1	370.1	369.3	353.6	340.5	268.0	206.0	185.1	195.5	172.0	165.9
77.5°	268.0	261.9	247.9	247.9	239.2	169.4	142.3	132.7	134.4	125.7	117.0
80°	166.7	177.2	159.8	159.8	145.8	103.0	89.0	87.3	81.2	74.2	72.5
82.5°	77.7	84.7	76.8	79.4	65.5	50.6	44.5	41.9	35.8	32.3	33.2
85°	27.9	26.2	23.6	23.6	21.0	16.6	14.8	14.0	11.3	11.3	11.3
87.5°	12.2	11.3	10.5	10.5	9.6	8.7	8.7	7.0	5.2	4.4	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°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
2.5°	82.9	71.6	64.6	54.1	48.9	37.5	34.0	22.7	27.1	27.9
5°	96.9	89.0	75.1	69.0	55.0	49.8	38.4	34.0	34.9	36.7
7.5°	110.9	95.2	85.6	73.3	60.2	52.4	42.8	37.5	39.3	37.5
10°	120.5	101.3	91.7	75.9	65.5	53.3	42.8	40.2	41.0	37.5
12.5°	129.2	109.1	96.0	78.6	67.2	54.1	44.5	41.0	41.0	37.5
15°	139.7	116.1	101.3	81.2	69.0	54.1	45.4	40.2	40.2	36.7
17.5°	151.0	125.7	108.2	84.7	69.8	54.1	44.5	39.3	40.2	35.8
20°	165.9	136.2	115.2	89.0	71.6	54.1	44.5	38.4	39.3	34.9
22.5°	179.8	147.5	122.2	93.4	73.3	54.1	43.6	36.7	38.4	34.9
25°	198.2	160.6	131.8	98.6	75.9	54.1	42.8	35.8	36.7	34.0
27.5°	218.2	175.5	143.2	104.8	79.4	54.1	41.9	34.0	34.9	33.2
30°	240.9	192.9	153.6	112.6	82.9	55.9	41.0	33.2	34.0	32.3
32.5°	263.6	209.5	165.0	119.6	88.2	57.6	41.0	32.3	32.3	31.4
35°	288.1	227.0	176.3	127.5	92.5	59.4	41.0	31.4	31.4	29.7
37.5°	309.0	244.4	188.6	135.3	97.8	62.0	41.9	31.4	29.7	28.8
40°	330.0	259.3	199.0	142.3	102.1	63.7	42.8	31.4	28.8	27.1
42.5°	345.7	271.5	207.8	147.5	105.6	66.3	43.6	31.4	28.8	27.1
45°	360.5	282.8	213.9	151.9	108.2	69.0	45.4	31.4	27.9	26.2
47.5°	372.8	292.4	219.1	154.5	109.1	70.7	47.1	32.3	27.9	26.2
50°	385.0	302.0	222.6	156.3	107.4	71.6	48.0	33.2	27.1	26.2
52.5°	397.2	309.9	226.1	158.0	103.9	69.8	47.1	33.2	26.2	25.3
55°	408.5	319.5	228.7	158.0	99.5	67.2	46.3	32.3	24.4	23.6
57.5°	419.9	328.2	233.1	158.0	95.2	62.9	43.6	30.6	23.6	21.8
60°	433.0	339.6	240.9	159.8	89.0	58.5	40.2	28.8	21.8	20.1
62.5°	441.7	350.9	254.9	163.2	85.6	53.3	36.7	26.2	19.2	17.5
65°	440.0	355.3	271.5	172.0	89.0	48.0	33.2	23.6	16.6	15.7
67.5°	412.0	341.3	282.0	175.5	101.3	42.8	28.8	21.0	14.8	13.1
70°	333.5	302.0	261.9	188.6	103.9	38.4	26.2	17.5	13.1	11.3
72.5°	231.3	229.6	202.5	181.6	101.3	37.5	23.6	14.8	11.3	9.6
75°	172.8	154.5	165.0	142.3	94.3	39.3	21.0	12.2	8.7	7.9
77.5°	121.3	110.0	112.6	104.8	76.8	35.8	17.5	9.6	7.0	6.1
80°	75.1	66.3	70.7	62.0	50.6	27.1	13.1	7.0	4.4	4.4
82.5°	34.9	27.9	29.7	26.2	23.6	14.0	7.0	4.4	2.6	2.6
85°	10.5	7.9	7.9	6.1	5.2	5.2	3.5	1.7	1.7	0.9
87.5°	3.5	2.6	2.6	1.7	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



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Scaled Data Report





— Vertical Plane Through 0-Deg Lateral

- - - Horizontal Cone Through 65-Deg Vertical



--- HS — SS



0°

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

Scaled Data Report





(END OF REPORT)