

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-A3-830-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-A3-830-U-T4-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 1500LM, 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: 1284 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

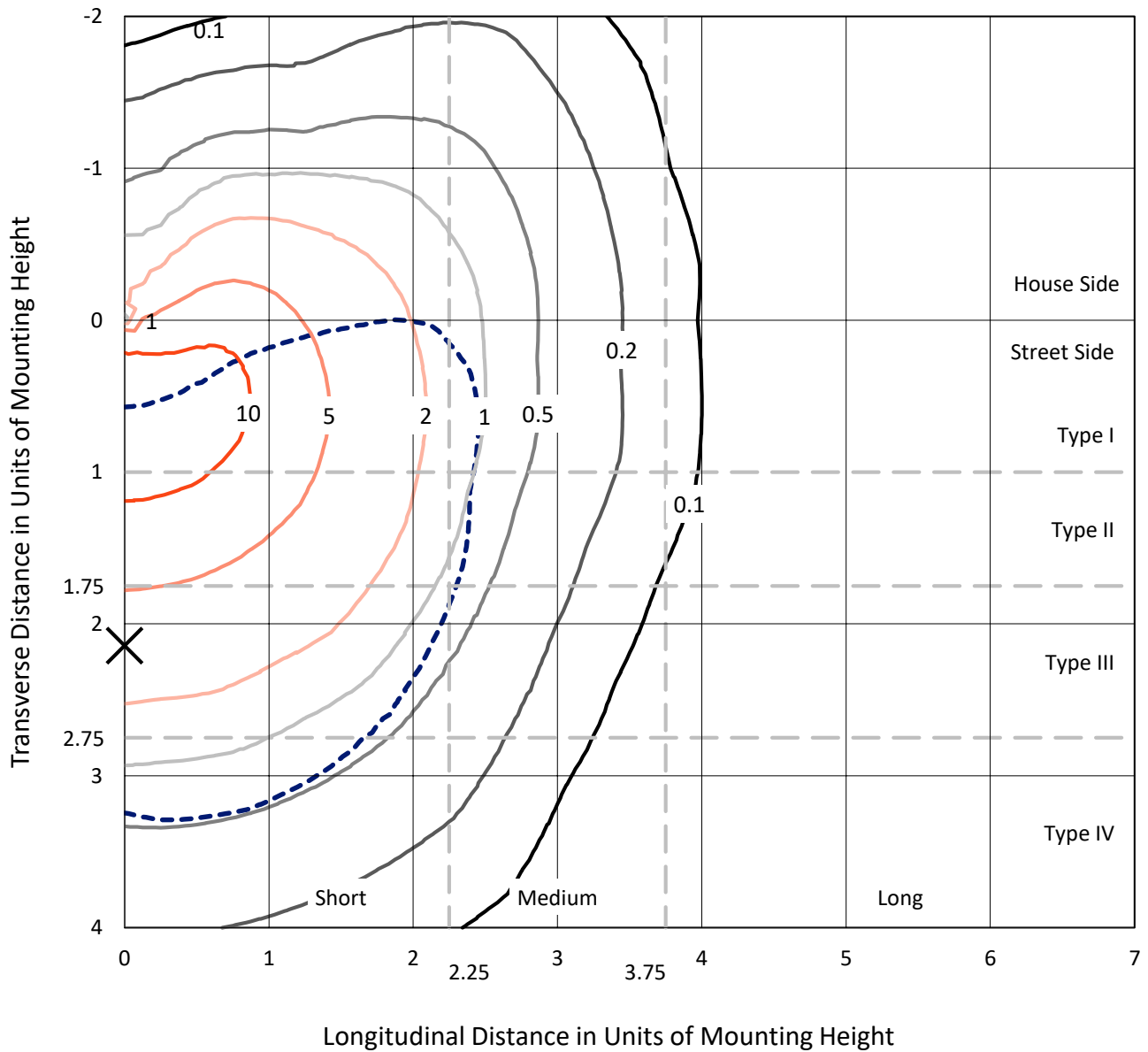
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

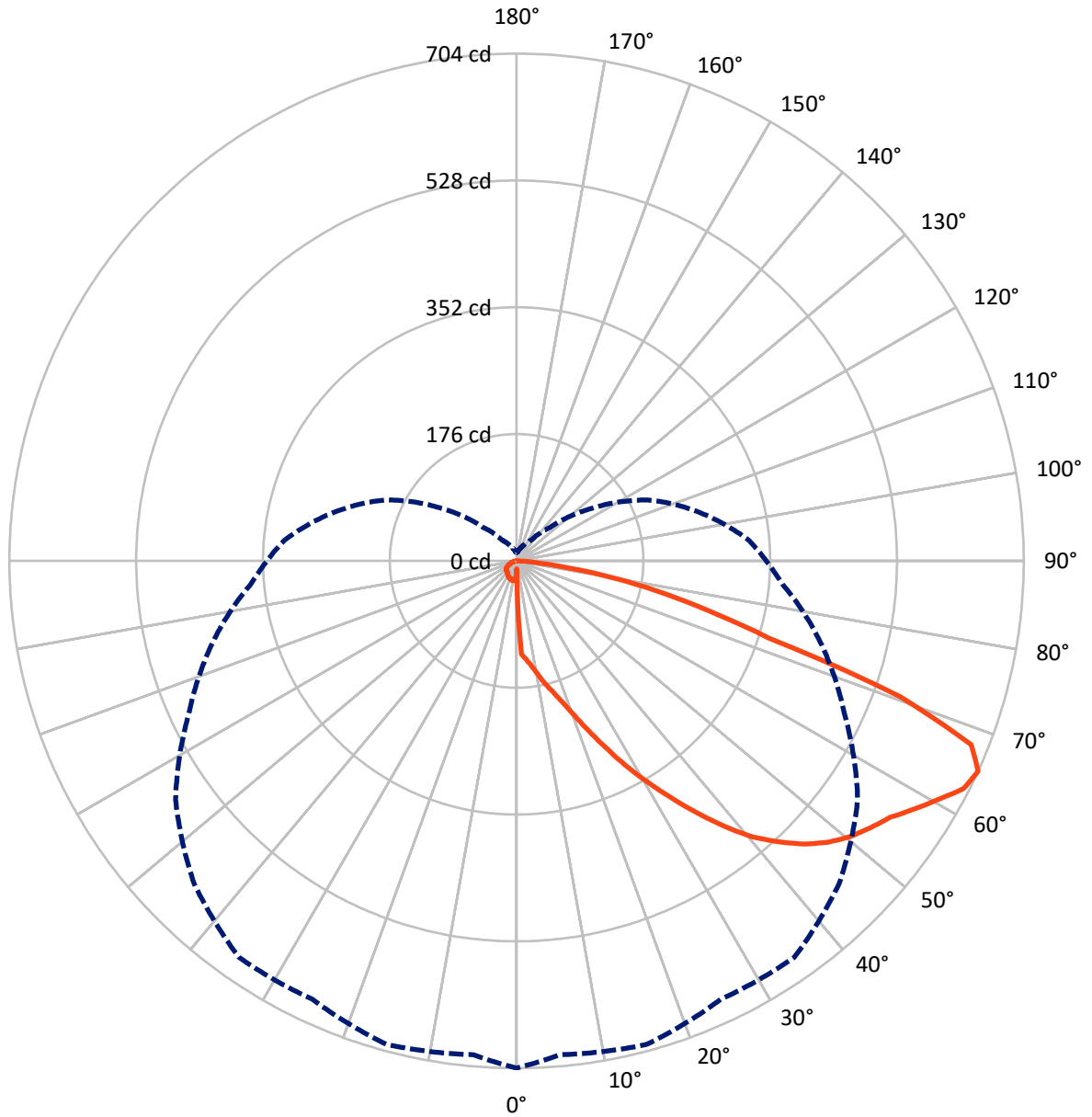
✕ Max cd
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 14.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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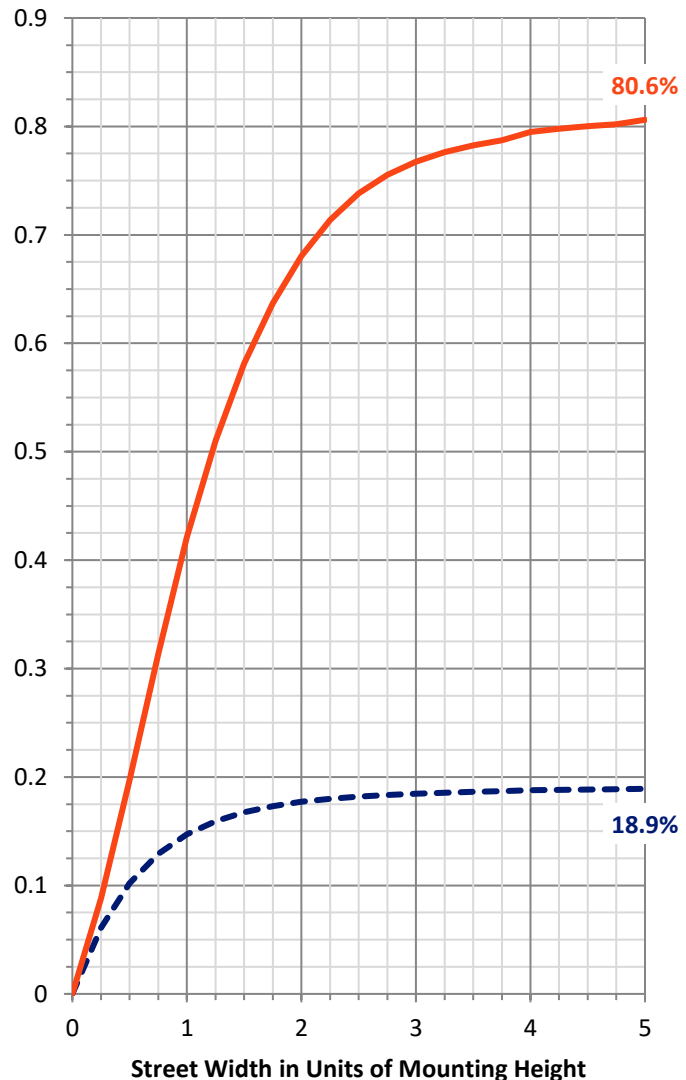
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	244.0	0.0	244.0
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1040.0	0.0	1040.0
	% Fixture	81.0	0.0	81.0
Total	Lumens	1284.0	0.0	1284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.6
10°-20°	31.5	2.5
20°-30°	73.5	5.7
30°-40°	144.3	11.2
40°-50°	226.2	17.6
50°-60°	297.0	23.1
60°-70°	332.9	25.9
70°-80°	152.0	11.8
80°-90°	19.0	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°	1284.0	100.0
0°-180°	1284.0	100.0

Coefficient of Utilization



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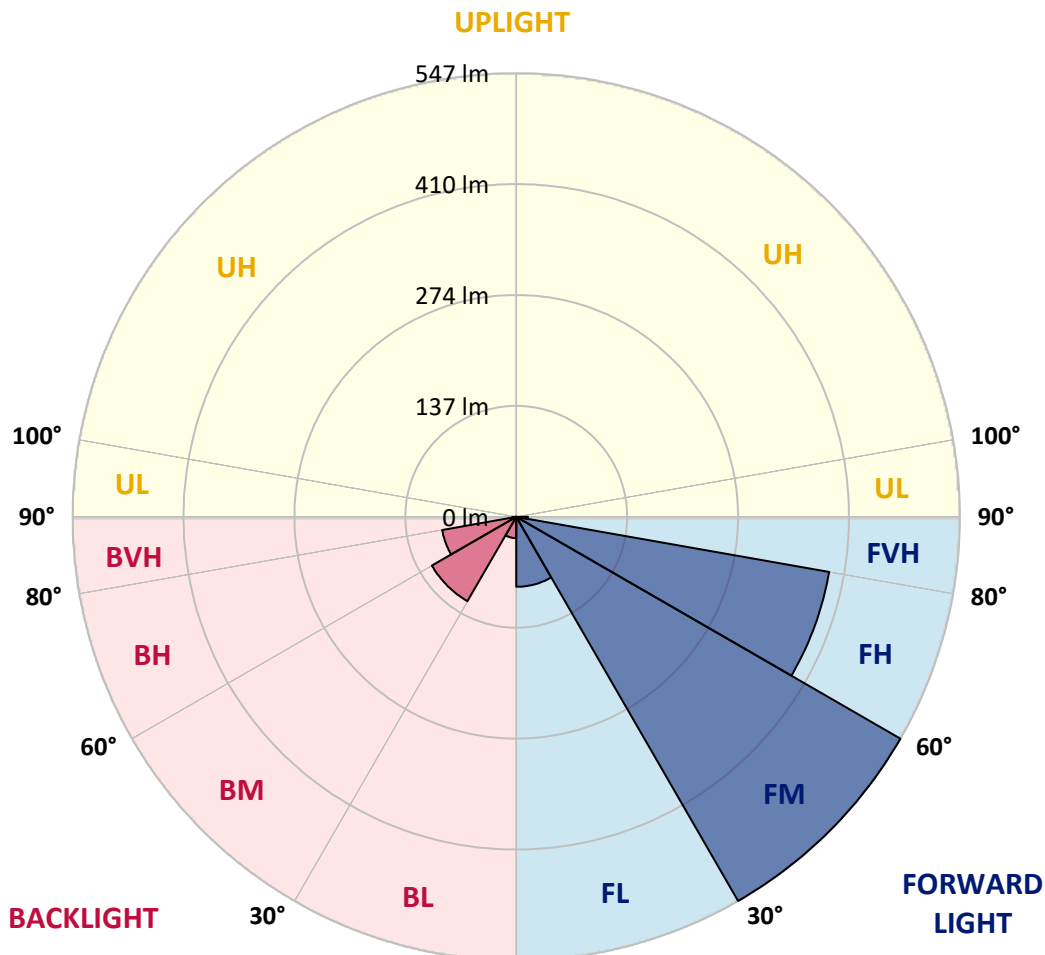
CATALOG NUMBER: BRT6-A3-830-U-T4-XX-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	86.3	6.7			
FM (30°-60°)	547.3	42.6			
FH (60°-80°)	392.0	30.5			G0/660
FVH (80°-90°)	14.3	1.1			G1/100
BL (0°-30°)	26.3	2.1	B0/110		
BM (30°-60°)	120.2	9.4	B0/220		
BH (60°-80°)	92.8	7.2	B0/110		G0/110
BVH (80°-90°)	4.7	0.4			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
2.5°	129.9	127.3	119.0	111.3	103.5	93.2	87.5	79.7	72.0	65.0	64.3
5°	137.0	136.3	136.3	126.0	122.2	111.9	106.1	97.1	90.7	81.0	77.8
7.5°	146.6	146.6	146.6	142.8	133.8	126.0	119.0	106.8	100.3	88.1	86.2
10°	159.5	159.5	158.8	157.6	146.6	140.8	129.3	118.3	110.0	97.1	92.6
12.5°	174.3	173.6	172.3	170.4	158.8	154.3	141.5	131.2	119.6	104.8	99.7
15°	188.4	189.1	187.8	185.2	174.3	168.5	154.3	144.7	129.9	114.5	107.4
17.5°	205.8	206.4	203.9	201.9	191.6	184.6	169.8	158.8	142.1	126.0	117.7
20°	228.9	227.7	225.7	223.8	212.2	203.2	187.1	176.2	157.6	139.5	129.3
22.5°	255.9	254.7	253.4	249.5	235.4	227.7	208.4	195.5	173.6	154.3	142.8
25°	286.8	287.5	282.3	280.4	263.7	255.9	232.8	218.0	193.6	171.1	157.6
27.5°	320.9	321.5	316.4	313.8	297.7	287.5	263.7	244.4	214.8	189.1	174.9
30°	355.0	356.3	353.7	351.1	332.5	321.5	293.2	272.0	238.6	208.4	191.6
32.5°	390.4	392.9	388.4	389.1	371.1	358.2	327.3	302.2	266.2	230.2	210.9
35°	428.3	430.2	427.0	427.6	409.0	396.8	361.4	332.5	292.6	252.1	231.5
37.5°	466.9	466.9	464.3	464.9	444.4	429.6	391.0	363.3	317.0	272.7	250.8
40°	503.5	503.5	501.0	497.1	479.7	459.2	423.8	388.4	340.8	288.7	264.9
42.5°	533.1	532.5	528.0	526.0	508.0	486.8	452.1	410.9	360.1	304.8	278.5
45°	560.8	560.1	552.4	551.1	533.8	512.5	476.5	434.1	376.2	318.3	291.3
47.5°	583.3	583.3	575.6	574.9	556.3	536.3	497.1	453.4	391.6	333.1	301.0
50°	601.3	601.3	592.9	596.1	571.7	558.8	514.5	470.7	407.1	345.3	313.2
52.5°	615.4	618.0	610.3	614.8	588.4	579.4	531.8	484.9	420.6	356.3	324.1
55°	628.9	634.7	626.4	631.5	603.9	598.7	548.5	499.7	432.2	364.6	335.0
57.5°	650.2	652.7	645.0	645.7	620.6	612.9	564.6	511.3	442.4	371.7	342.1
60°	672.7	670.7	666.2	657.9	641.8	627.6	577.5	518.3	450.8	378.8	349.2
62.5°	696.5	683.0	684.9	669.4	661.1	636.7	585.2	519.6	451.4	381.3	353.1
65°	704.2	688.1	695.2	671.4	672.0	633.4	578.1	502.2	436.7	370.4	346.6
67.5°	681.0	666.2	680.4	641.8	658.5	594.2	535.7	446.3	395.5	336.3	320.9
70°	565.3	538.9	564.0	520.3	538.9	454.7	395.5	310.6	286.2	248.2	244.4
72.5°	365.3	380.7	389.1	376.2	349.2	296.5	237.3	199.4	201.9	171.1	178.1
75°	272.7	272.7	272.0	260.4	250.8	197.4	151.8	136.3	144.1	126.7	122.2
77.5°	197.4	192.9	182.6	182.6	176.2	124.8	104.8	97.7	99.0	92.6	86.2
80°	122.8	130.5	117.7	117.7	107.4	75.9	65.6	64.3	59.8	54.7	53.4
82.5°	57.2	62.4	56.6	58.5	48.2	37.3	32.8	30.9	26.4	23.8	24.4
85°	20.6	19.3	17.4	17.4	15.4	12.2	10.9	10.3	8.4	8.4	8.4
87.5°	9.0	8.4	7.7	7.7	7.1	6.4	6.4	5.1	3.9	3.2	2.6
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°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
2.5°	61.1	52.7	47.6	39.9	36.0	27.7	25.1	16.7	19.9	20.6
5°	71.4	65.6	55.3	50.8	40.5	36.7	28.3	25.1	25.7	27.0
7.5°	81.7	70.1	63.0	54.0	44.4	38.6	31.5	27.7	28.9	27.7
10°	88.7	74.6	67.5	55.9	48.2	39.2	31.5	29.6	30.2	27.7
12.5°	95.2	80.4	70.7	57.9	49.5	39.9	32.8	30.2	30.2	27.7
15°	102.9	85.5	74.6	59.8	50.8	39.9	33.4	29.6	29.6	27.0
17.5°	111.3	92.6	79.7	62.4	51.4	39.9	32.8	28.9	29.6	26.4
20°	122.2	100.3	84.9	65.6	52.7	39.9	32.8	28.3	28.9	25.7
22.5°	132.5	108.7	90.0	68.8	54.0	39.9	32.2	27.0	28.3	25.7
25°	146.0	118.3	97.1	72.7	55.9	39.9	31.5	26.4	27.0	25.1
27.5°	160.8	129.3	105.5	77.2	58.5	39.9	30.9	25.1	25.7	24.4
30°	177.5	142.1	113.2	83.0	61.1	41.2	30.2	24.4	25.1	23.8
32.5°	194.2	154.3	121.5	88.1	65.0	42.4	30.2	23.8	23.8	23.2
35°	212.2	167.2	129.9	93.9	68.2	43.7	30.2	23.2	23.2	21.9
37.5°	227.7	180.1	138.9	99.7	72.0	45.7	30.9	23.2	21.9	21.2
40°	243.1	191.0	146.6	104.8	75.2	46.9	31.5	23.2	21.2	19.9
42.5°	254.7	200.0	153.1	108.7	77.8	48.9	32.2	23.2	21.2	19.9
45°	265.6	208.4	157.6	111.9	79.7	50.8	33.4	23.2	20.6	19.3
47.5°	274.6	215.4	161.4	113.8	80.4	52.1	34.7	23.8	20.6	19.3
50°	283.6	222.5	164.0	115.1	79.1	52.7	35.4	24.4	19.9	19.3
52.5°	292.6	228.3	166.6	116.4	76.5	51.4	34.7	24.4	19.3	18.6
55°	301.0	235.4	168.5	116.4	73.3	49.5	34.1	23.8	18.0	17.4
57.5°	309.3	241.8	171.7	116.4	70.1	46.3	32.2	22.5	17.4	16.1
60°	319.0	250.2	177.5	117.7	65.6	43.1	29.6	21.2	16.1	14.8
62.5°	325.4	258.5	187.8	120.3	63.0	39.2	27.0	19.3	14.1	12.9
65°	324.1	261.7	200.0	126.7	65.6	35.4	24.4	17.4	12.2	11.6
67.5°	303.5	251.4	207.7	129.3	74.6	31.5	21.2	15.4	10.9	9.6
70°	245.7	222.5	192.9	138.9	76.5	28.3	19.3	12.9	9.6	8.4
72.5°	170.4	169.1	149.2	133.8	74.6	27.7	17.4	10.9	8.4	7.1
75°	127.3	113.8	121.5	104.8	69.5	28.9	15.4	9.0	6.4	5.8
77.5°	89.4	81.0	83.0	77.2	56.6	26.4	12.9	7.1	5.1	4.5
80°	55.3	48.9	52.1	45.7	37.3	19.9	9.6	5.1	3.2	3.2
82.5°	25.7	20.6	21.9	19.3	17.4	10.3	5.1	3.2	1.9	1.9
85°	7.7	5.8	5.8	4.5	3.9	3.9	2.6	1.3	1.3	0.6
87.5°	2.6	1.9	1.9	1.3	0.6	0.6	0.6	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

Cooper Lighting Solutions Photometric Lab
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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 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)