

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-A4-740-U-T3-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 (G3-2006-849-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/14/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: BRT6-A4-740-U-T3-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 2000LM, PATH ASYMMETRICAL, BLACK FINISH
Light Source: (8) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1961.1 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

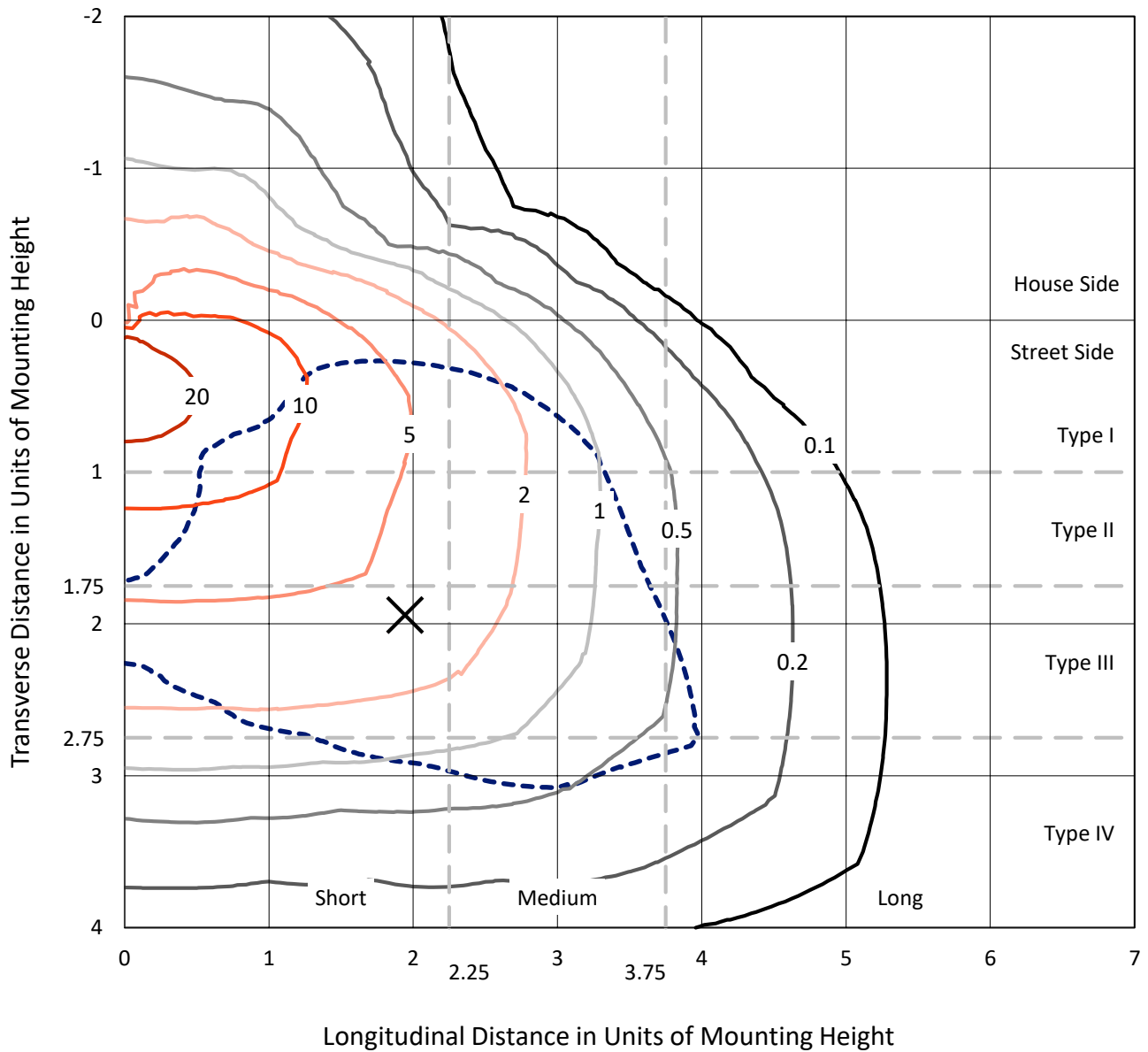
Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

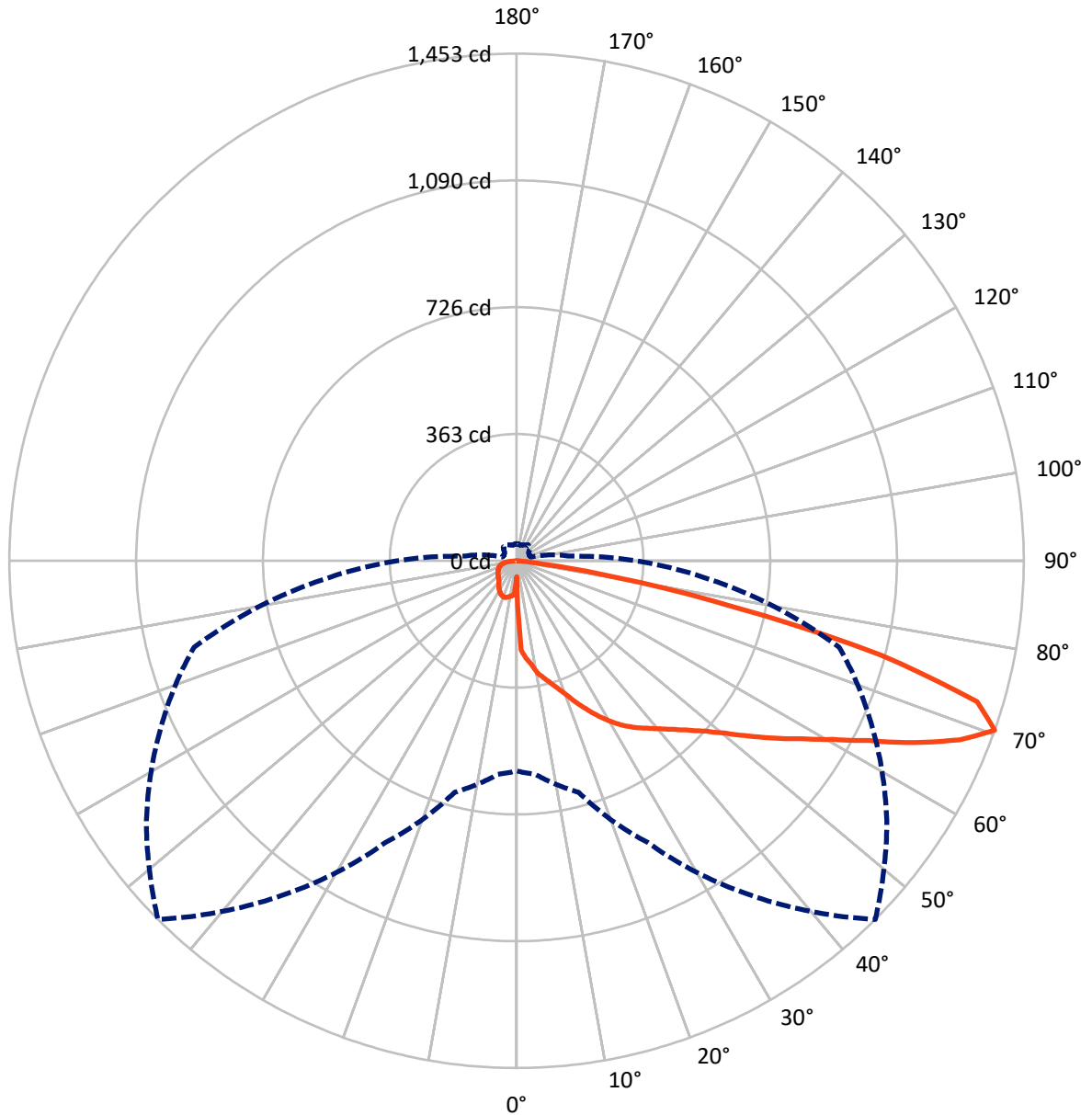
✕ Max cd
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 25.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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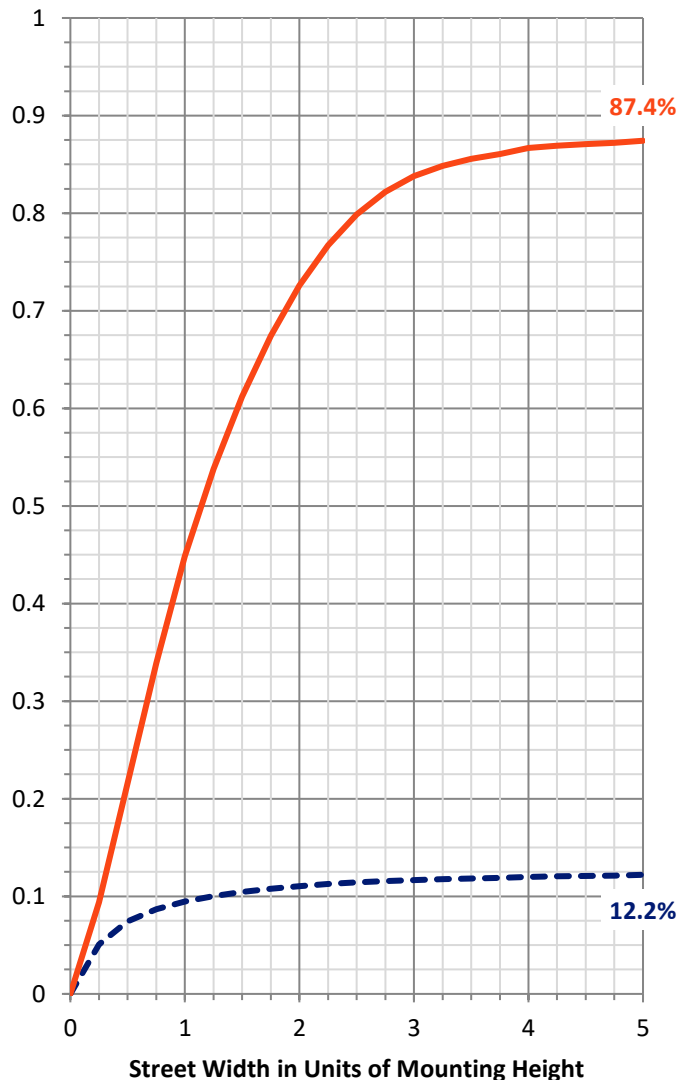
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	244.0	0.0	244.0
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	1717.1	0.0	1717.1
	% Fixture	87.6	0.0	87.6
Total	Lumens	1961.1	0.0	1961.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.9	0.9
10°-20°	65.5	3.3
20°-30°	129.8	6.6
30°-40°	207.4	10.6
40°-50°	288.6	14.7
50°-60°	387.4	19.8
60°-70°	505.2	25.8
70°-80°	326.9	16.7
80°-90°	32.5	1.7
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°	1961.1	100.0
0°-180°	1961.1	100.0

Coefficient of Utilization



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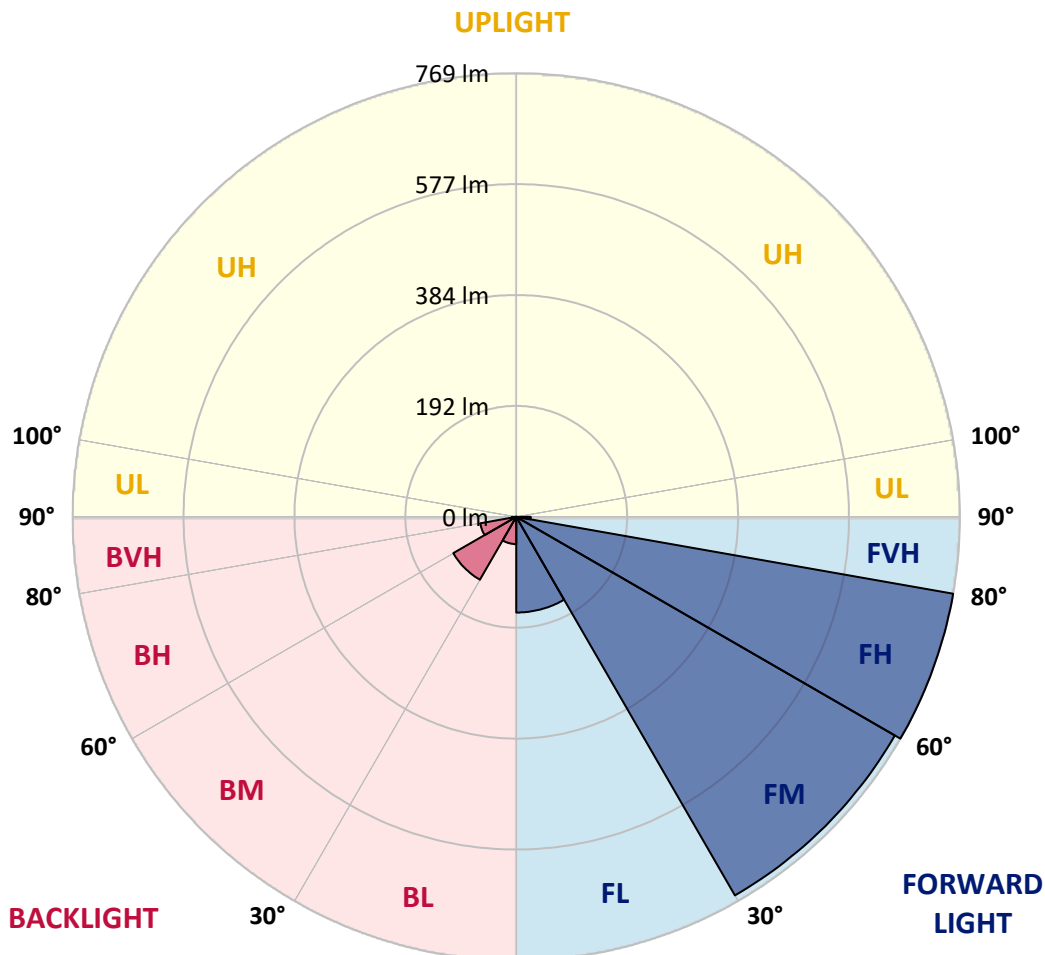
CATALOG NUMBER: BRT6-A4-740-U-T3-XX-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	165.9	8.5			
FM	(30°-60°)	757.5	38.6			
FH	(60°-80°)	768.7	39.2			G1/1800
FVH	(80°-90°)	25.1	1.3			G1/100
BL	(0°-30°)	47.2	2.4	B0/110		
BM	(30°-60°)	125.9	6.4	B0/220		
BH	(60°-80°)	63.4	3.2	B0/110		G0/110
BVH	(80°-90°)	7.5	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°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
2.5°	305.3	306.4	306.4	299.8	268.0	255.9	230.6	209.7	187.8	165.8	155.9
5°	328.3	328.3	328.3	325.1	316.3	280.0	264.7	233.9	214.1	187.8	182.3
7.5°	350.3	351.4	350.3	347.0	341.5	298.7	285.5	246.0	229.5	194.4	187.8
10°	370.1	371.2	371.2	367.9	363.5	326.2	303.1	258.1	241.6	199.9	192.2
12.5°	392.0	393.1	392.0	388.7	382.2	343.7	318.5	280.0	251.5	205.4	196.6
15°	418.4	419.5	420.6	412.9	405.2	362.4	336.0	293.2	261.4	213.0	201.0
17.5°	448.0	448.0	448.0	443.7	432.7	384.4	352.5	307.5	273.4	221.8	205.4
20°	479.9	481.0	479.9	476.6	462.3	410.7	372.3	322.9	285.5	231.7	210.8
22.5°	508.4	511.7	512.8	507.3	495.3	441.5	396.4	339.3	299.8	242.7	217.4
25°	541.4	542.5	541.4	538.1	524.9	473.3	419.5	358.0	315.2	254.8	226.2
27.5°	569.9	572.1	571.0	565.6	556.8	505.2	444.8	380.0	331.6	268.0	238.3
30°	601.8	600.7	597.4	595.2	587.5	534.8	472.2	403.0	350.3	284.4	255.9
32.5°	625.9	625.9	621.6	619.4	611.7	562.3	496.4	425.0	371.2	308.6	277.8
35°	647.9	649.0	644.6	640.2	633.6	586.4	518.3	446.9	395.3	337.1	303.1
37.5°	668.8	669.9	668.8	661.1	654.5	608.4	541.4	472.2	421.7	367.9	326.2
40°	683.1	685.3	689.6	678.7	673.2	632.5	567.7	506.3	457.9	400.8	348.1
42.5°	678.7	680.9	695.1	695.1	692.9	660.0	598.5	545.8	496.4	434.9	369.0
45°	665.5	669.9	694.0	706.1	713.8	691.8	633.6	593.0	541.4	470.0	389.8
47.5°	650.1	652.3	684.2	707.2	736.9	729.2	674.3	640.2	597.4	504.1	408.5
50°	640.2	644.6	677.6	711.6	761.0	776.4	719.3	695.1	653.4	535.9	423.9
52.5°	649.0	655.6	684.2	725.9	790.7	833.5	768.7	751.1	711.6	561.2	438.2
55°	667.7	669.9	705.0	754.4	833.5	897.2	821.4	817.0	769.8	583.1	448.0
57.5°	690.7	692.9	736.9	790.7	885.1	962.0	880.7	881.8	826.9	601.8	455.7
60°	722.6	728.1	774.2	842.3	946.6	1038.9	947.7	952.1	880.7	613.9	459.0
62.5°	744.6	753.3	806.0	897.2	1020.2	1134.4	1023.5	1013.6	931.2	620.5	455.7
65°	735.8	739.1	811.5	937.8	1097.1	1255.2	1116.8	1069.6	970.8	616.1	441.5
67.5°	697.3	703.9	777.5	948.8	1157.5	1368.3	1215.7	1113.5	992.7	594.1	405.2
70°	601.8	613.9	686.3	890.6	1169.5	1452.9	1294.7	1123.4	956.5	535.9	341.5
72.5°	361.3	386.6	456.8	627.0	996.0	1379.3	1276.1	1013.6	809.3	415.1	229.5
75°	183.4	188.9	211.9	313.0	615.0	1076.2	1091.6	792.9	591.9	241.6	129.6
77.5°	85.7	86.8	99.9	140.6	305.3	641.3	824.7	580.9	376.7	124.1	69.2
80°	47.2	50.5	53.8	69.2	94.4	294.3	519.4	352.5	214.1	54.9	30.7
82.5°	31.8	31.8	32.9	35.1	45.0	71.4	174.6	136.2	82.4	22.0	15.4
85°	12.1	13.2	14.3	15.4	17.6	18.7	19.8	18.7	13.2	7.7	5.5
87.5°	5.5	5.5	5.5	6.6	5.5	5.5	5.5	4.4	4.4	3.3	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°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
2.5°	147.2	135.1	108.7	96.6	71.4	65.9	48.3	35.1	18.7	14.3
5°	168.0	145.0	128.5	106.5	96.6	69.2	64.8	37.3	39.5	56.0
7.5°	174.6	147.2	136.2	108.7	101.0	70.3	65.9	39.5	48.3	57.1
10°	183.4	149.3	137.3	109.8	102.1	71.4	67.0	43.9	60.4	60.4
12.5°	186.7	151.5	139.5	110.9	105.4	73.6	69.2	53.8	62.6	63.7
15°	190.0	152.6	141.7	114.2	107.6	76.9	71.4	63.7	63.7	64.8
17.5°	193.3	154.8	146.1	116.4	109.8	80.2	71.4	64.8	63.7	64.8
20°	196.6	159.2	150.4	118.6	109.8	84.6	71.4	64.8	63.7	64.8
22.5°	203.2	165.8	155.9	119.7	108.7	85.7	69.2	63.7	62.6	63.7
25°	211.9	175.7	159.2	120.8	106.5	84.6	68.1	62.6	60.4	61.5
27.5°	225.1	187.8	161.4	121.9	103.2	83.5	65.9	60.4	58.2	59.3
30°	243.8	198.8	160.3	119.7	98.8	81.3	63.7	58.2	57.1	58.2
32.5°	265.8	206.5	157.0	115.3	94.4	79.1	61.5	56.0	54.9	56.0
35°	284.4	208.6	149.3	107.6	90.0	76.9	59.3	53.8	53.8	54.9
37.5°	299.8	206.5	138.4	101.0	84.6	73.6	57.1	52.7	52.7	52.7
40°	311.9	199.9	126.3	93.3	79.1	70.3	56.0	51.6	51.6	52.7
42.5°	320.7	190.0	115.3	87.9	75.8	69.2	54.9	50.5	50.5	51.6
45°	327.3	177.9	105.4	81.3	72.5	67.0	52.7	48.3	48.3	49.4
47.5°	333.8	165.8	95.5	76.9	71.4	65.9	50.5	48.3	48.3	49.4
50°	337.1	153.7	87.9	73.6	69.2	62.6	49.4	48.3	50.5	50.5
52.5°	339.3	142.8	80.2	69.2	68.1	61.5	50.5	50.5	51.6	52.7
55°	337.1	128.5	72.5	64.8	64.8	61.5	51.6	51.6	52.7	52.7
57.5°	327.3	112.0	64.8	61.5	62.6	62.6	52.7	51.6	52.7	53.8
60°	314.1	94.4	59.3	58.2	61.5	62.6	53.8	51.6	53.8	53.8
62.5°	289.9	75.8	52.7	53.8	60.4	62.6	53.8	50.5	53.8	53.8
65°	252.6	60.4	47.2	49.4	58.2	61.5	52.7	49.4	51.6	52.7
67.5°	206.5	50.5	42.8	45.0	56.0	60.4	51.6	48.3	49.4	51.6
70°	152.6	42.8	39.5	41.7	53.8	56.0	50.5	46.1	48.3	49.4
72.5°	99.9	36.2	35.1	38.4	51.6	51.6	48.3	43.9	46.1	48.3
75°	58.2	28.6	28.6	34.0	48.3	47.2	46.1	37.3	40.6	45.0
77.5°	36.2	22.0	24.2	28.6	45.0	43.9	42.8	31.8	35.1	41.7
80°	17.6	16.5	17.6	24.2	38.4	38.4	39.5	27.5	30.7	38.4
82.5°	9.9	9.9	12.1	16.5	34.0	32.9	34.0	23.1	26.4	34.0
85°	5.5	6.6	6.6	11.0	23.1	20.9	28.6	16.5	19.8	26.4
87.5°	2.2	2.2	1.1	1.1	3.3	1.1	3.3	2.2	6.6	8.8
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



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Scaled Data Report





— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



--- HS — SS



0°

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

Scaled Data Report





(END OF REPORT)