

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-A3-727-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-A3-727-U-T4-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 1500LM, WIDE PATH ASYMMETRICAL, BLACK FINISH
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1351 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

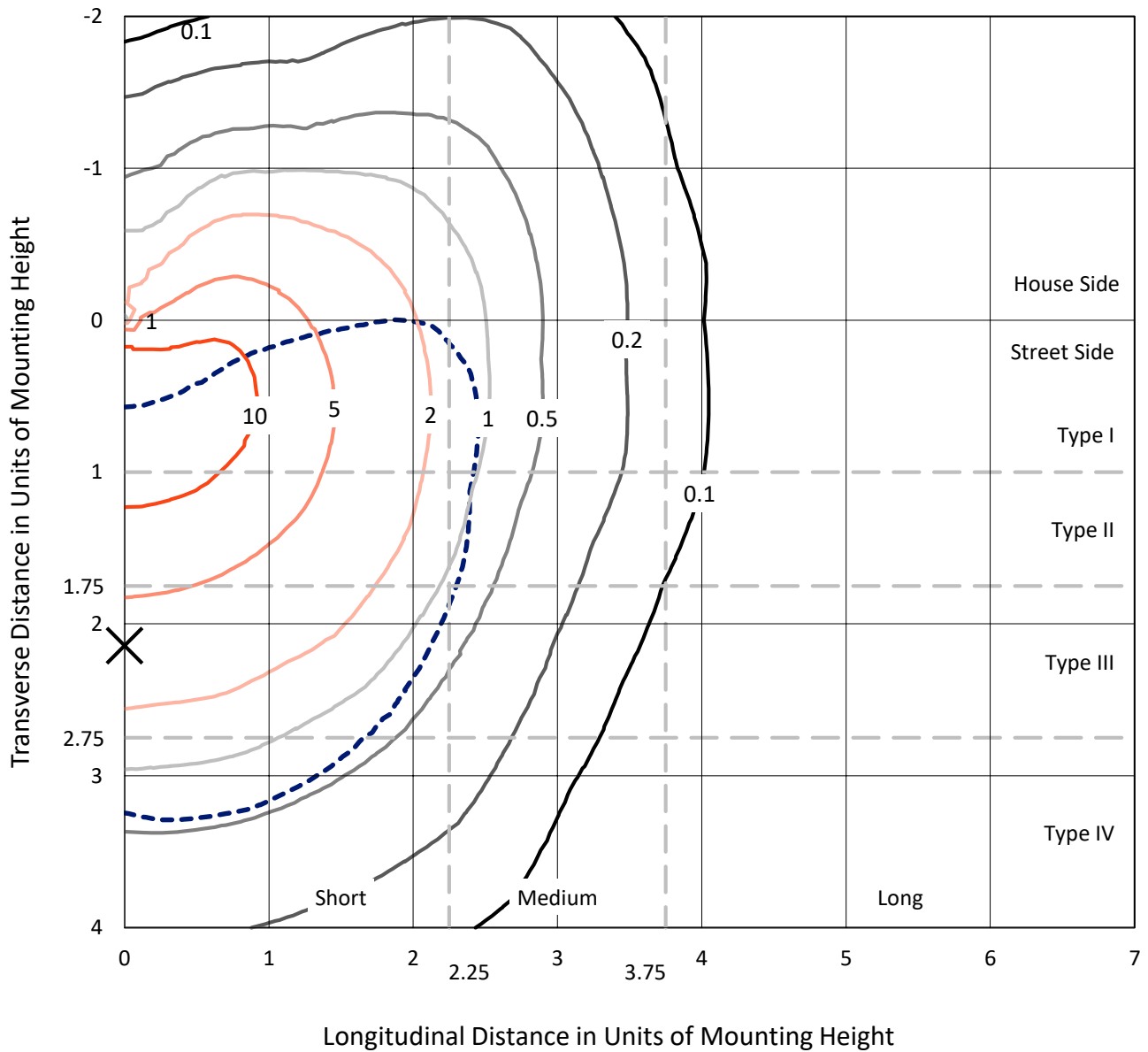
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

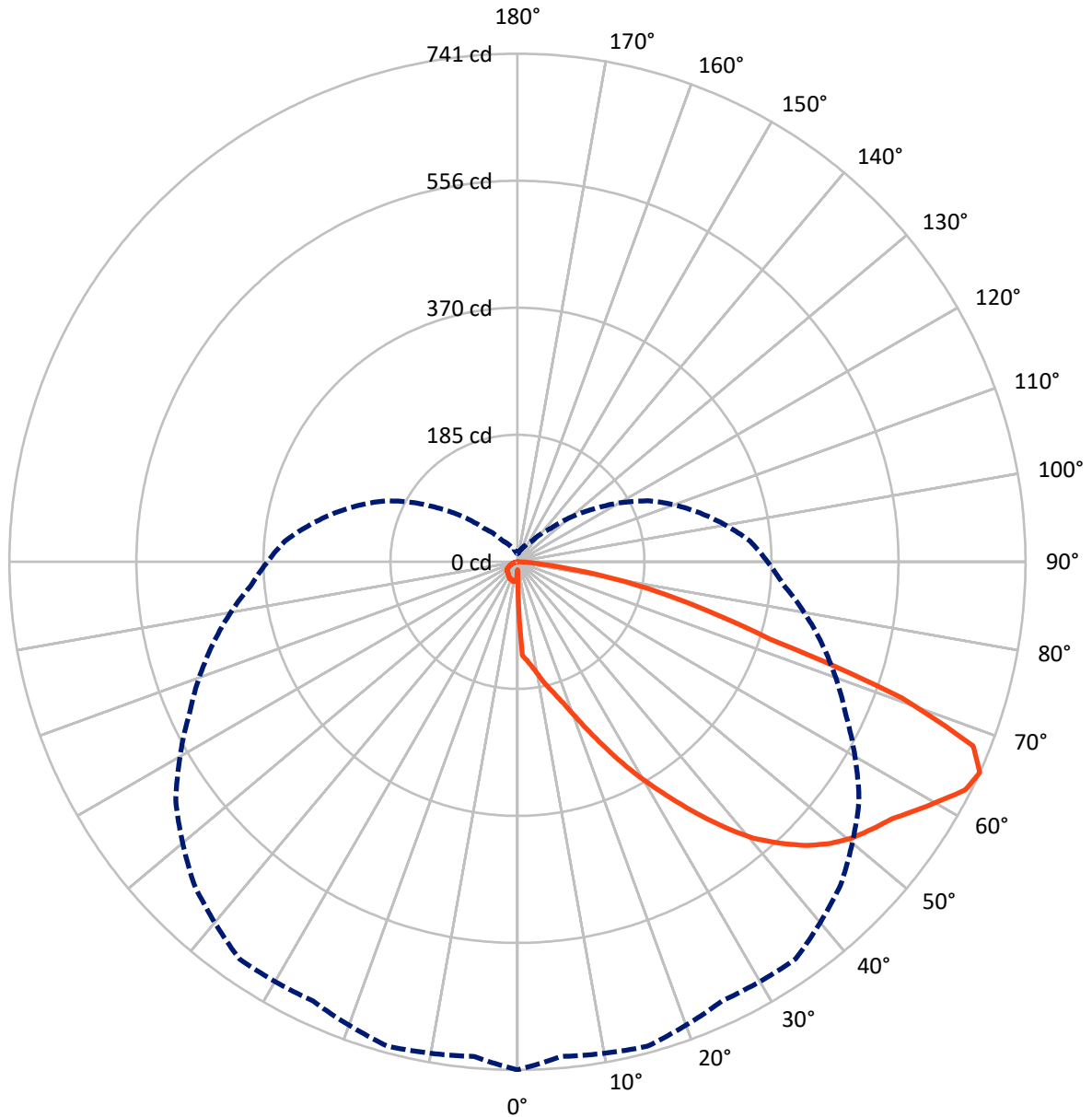
✕ Max cd
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 15.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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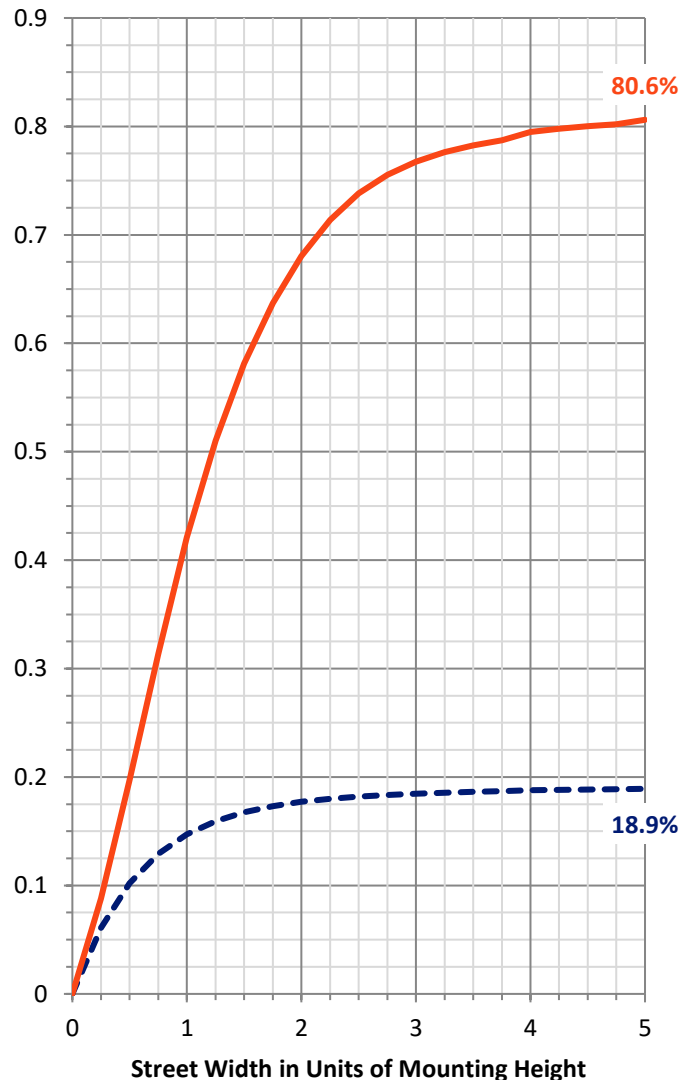
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	256.8	0.0	256.8
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1094.2	0.0	1094.2
	% Fixture	81.0	0.0	81.0
Total	Lumens	1351.0	0.0	1351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	0.6
10°-20°	33.1	2.5
20°-30°	77.3	5.7
30°-40°	151.9	11.2
40°-50°	238.0	17.6
50°-60°	312.5	23.1
60°-70°	350.2	25.9
70°-80°	159.9	11.8
80°-90°	20.0	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°	1351.0	100.0
0°-180°	1351.0	100.0

Coefficient of Utilization



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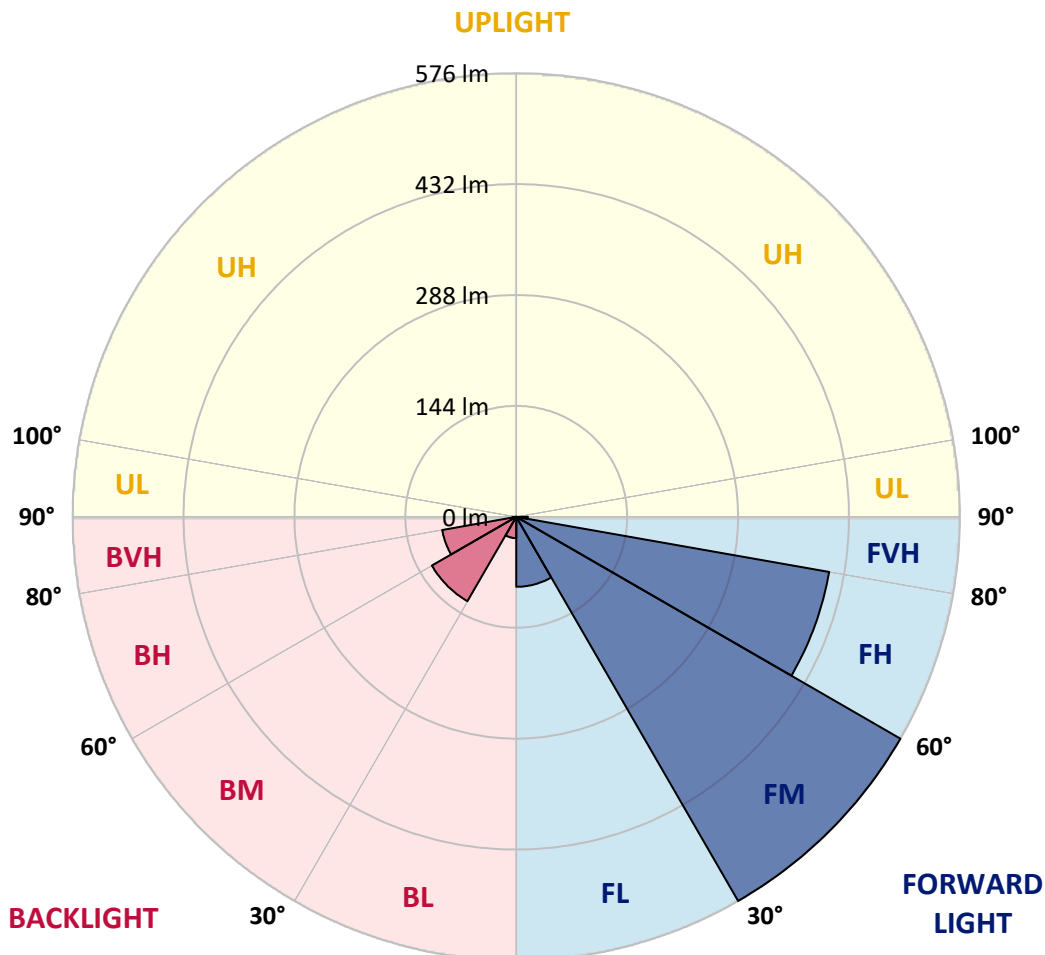
CATALOG NUMBER: BRT6-A3-727-U-T4-XX-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	90.8	6.7			
FM	(30°-60°)	575.8	42.6			
FH	(60°-80°)	412.5	30.5			G0/660
FVH	(80°-90°)	15.0	1.1			G1/100
BL	(0°-30°)	27.7	2.1	B0/110		
BM	(30°-60°)	126.5	9.4	B0/220		
BH	(60°-80°)	97.7	7.2	B0/110		G0/110
BVH	(80°-90°)	4.9	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°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
2.5°	136.7	134.0	125.2	117.1	108.9	98.1	92.0	83.9	75.8	68.3	67.7
5°	144.1	143.4	143.4	132.6	128.6	117.7	111.6	102.2	95.4	85.3	81.9
7.5°	154.3	154.3	154.3	150.2	140.7	132.6	125.2	112.3	105.6	92.7	90.7
10°	167.8	167.8	167.1	165.8	154.3	148.2	136.0	124.5	115.7	102.2	97.4
12.5°	183.4	182.7	181.3	179.3	167.1	162.4	148.9	138.0	125.9	110.3	104.9
15°	198.3	198.9	197.6	194.9	183.4	177.3	162.4	152.2	136.7	120.4	113.0
17.5°	216.5	217.2	214.5	212.5	201.6	194.2	178.6	167.1	149.5	132.6	123.8
20°	240.9	239.5	237.5	235.5	223.3	213.8	196.9	185.4	165.8	146.8	136.0
22.5°	269.3	267.9	266.6	262.5	247.6	239.5	219.2	205.7	182.7	162.4	150.2
25°	301.8	302.5	297.0	295.0	277.4	269.3	244.9	229.4	203.7	180.0	165.8
27.5°	337.6	338.3	332.9	330.2	313.3	302.5	277.4	257.1	226.0	198.9	184.0
30°	373.5	374.9	372.2	369.4	349.8	338.3	308.5	286.2	251.0	219.2	201.6
32.5°	410.7	413.4	408.7	409.4	390.4	376.9	344.4	318.0	280.1	242.2	221.9
35°	450.6	452.7	449.3	450.0	430.3	417.5	380.3	349.8	307.9	265.2	243.6
37.5°	491.2	491.2	488.5	489.2	467.6	452.0	411.4	382.3	333.6	286.9	263.9
40°	529.8	529.8	527.1	523.0	504.8	483.1	445.9	408.7	358.6	303.8	278.8
42.5°	560.9	560.3	555.5	553.5	534.5	512.2	475.7	432.4	378.9	320.7	293.0
45°	590.0	589.4	581.2	579.9	561.6	539.3	501.4	456.7	395.8	334.9	306.5
47.5°	613.7	613.7	605.6	604.9	585.3	564.3	523.0	477.0	412.1	350.5	316.7
50°	632.7	632.7	623.9	627.2	601.5	588.0	541.3	495.3	428.3	363.4	329.5
52.5°	647.5	650.2	642.1	646.9	619.1	609.7	559.6	510.2	442.5	374.9	341.0
55°	661.8	667.8	659.0	664.5	635.4	630.0	577.2	525.7	454.7	383.7	352.5
57.5°	684.1	686.8	678.7	679.3	653.0	644.8	594.1	537.9	465.5	391.1	360.0
60°	707.8	705.7	701.0	692.2	675.3	660.4	607.6	545.4	474.3	398.5	367.4
62.5°	732.8	718.6	720.6	704.4	695.6	669.9	615.7	546.7	475.0	401.2	371.5
65°	740.9	724.0	731.4	706.4	707.1	666.5	608.3	528.5	459.4	389.7	364.7
67.5°	716.6	701.0	715.9	675.3	692.9	625.2	563.6	469.6	416.1	353.9	337.6
70°	594.8	567.0	593.4	547.4	567.0	478.4	416.1	326.8	301.1	261.2	257.1
72.5°	384.3	400.6	409.4	395.8	367.4	311.9	249.7	209.8	212.5	180.0	187.4
75°	286.9	286.9	286.2	274.0	263.9	207.7	159.7	143.4	151.6	133.3	128.6
77.5°	207.7	203.0	192.2	192.2	185.4	131.3	110.3	102.8	104.2	97.4	90.7
80°	129.2	137.4	123.8	123.8	113.0	79.8	69.0	67.7	62.9	57.5	56.2
82.5°	60.2	65.6	59.5	61.6	50.7	39.2	34.5	32.5	27.7	25.0	25.7
85°	21.7	20.3	18.3	18.3	16.2	12.9	11.5	10.8	8.8	8.8	8.8
87.5°	9.5	8.8	8.1	8.1	7.4	6.8	6.8	5.4	4.1	3.4	2.7
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°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
2.5°	64.3	55.5	50.1	42.0	37.9	29.1	26.4	17.6	21.0	21.7
5°	75.1	69.0	58.2	53.5	42.6	38.6	29.8	26.4	27.1	28.4
7.5°	85.9	73.8	66.3	56.8	46.7	40.6	33.2	29.1	30.4	29.1
10°	93.4	78.5	71.0	58.9	50.7	41.3	33.2	31.1	31.8	29.1
12.5°	100.1	84.6	74.4	60.9	52.1	42.0	34.5	31.8	31.8	29.1
15°	108.3	90.0	78.5	62.9	53.5	42.0	35.2	31.1	31.1	28.4
17.5°	117.1	97.4	83.9	65.6	54.1	42.0	34.5	30.4	31.1	27.7
20°	128.6	105.6	89.3	69.0	55.5	42.0	34.5	29.8	30.4	27.1
22.5°	139.4	114.4	94.7	72.4	56.8	42.0	33.8	28.4	29.8	27.1
25°	153.6	124.5	102.2	76.5	58.9	42.0	33.2	27.7	28.4	26.4
27.5°	169.2	136.0	111.0	81.2	61.6	42.0	32.5	26.4	27.1	25.7
30°	186.8	149.5	119.1	87.3	64.3	43.3	31.8	25.7	26.4	25.0
32.5°	204.3	162.4	127.9	92.7	68.3	44.7	31.8	25.0	25.0	24.4
35°	223.3	175.9	136.7	98.8	71.7	46.0	31.8	24.4	24.4	23.0
37.5°	239.5	189.5	146.2	104.9	75.8	48.0	32.5	24.4	23.0	22.3
40°	255.8	201.0	154.3	110.3	79.2	49.4	33.2	24.4	22.3	21.0
42.5°	267.9	210.4	161.0	114.4	81.9	51.4	33.8	24.4	22.3	21.0
45°	279.5	219.2	165.8	117.7	83.9	53.5	35.2	24.4	21.7	20.3
47.5°	288.9	226.7	169.8	119.8	84.6	54.8	36.5	25.0	21.7	20.3
50°	298.4	234.1	172.5	121.1	83.2	55.5	37.2	25.7	21.0	20.3
52.5°	307.9	240.2	175.2	122.5	80.5	54.1	36.5	25.7	20.3	19.6
55°	316.7	247.6	177.3	122.5	77.1	52.1	35.9	25.0	18.9	18.3
57.5°	325.5	254.4	180.7	122.5	73.8	48.7	33.8	23.7	18.3	16.9
60°	335.6	263.2	186.8	123.8	69.0	45.3	31.1	22.3	16.9	15.6
62.5°	342.4	272.0	197.6	126.5	66.3	41.3	28.4	20.3	14.9	13.5
65°	341.0	275.4	210.4	133.3	69.0	37.2	25.7	18.3	12.9	12.2
67.5°	319.4	264.6	218.6	136.0	78.5	33.2	22.3	16.2	11.5	10.1
70°	258.5	234.1	203.0	146.2	80.5	29.8	20.3	13.5	10.1	8.8
72.5°	179.3	178.0	157.0	140.7	78.5	29.1	18.3	11.5	8.8	7.4
75°	134.0	119.8	127.9	110.3	73.1	30.4	16.2	9.5	6.8	6.1
77.5°	94.1	85.3	87.3	81.2	59.5	27.7	13.5	7.4	5.4	4.7
80°	58.2	51.4	54.8	48.0	39.2	21.0	10.1	5.4	3.4	3.4
82.5°	27.1	21.7	23.0	20.3	18.3	10.8	5.4	3.4	2.0	2.0
85°	8.1	6.1	6.1	4.7	4.1	4.1	2.7	1.4	1.4	0.7
87.5°	2.7	2.0	2.0	1.4	0.7	0.7	0.7	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)