

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-A4-727-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-A4-727-U-T3-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 2000LM, PATH ASYMMETRICAL, BLACK FINISH
Light Source: (8) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1639.9 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

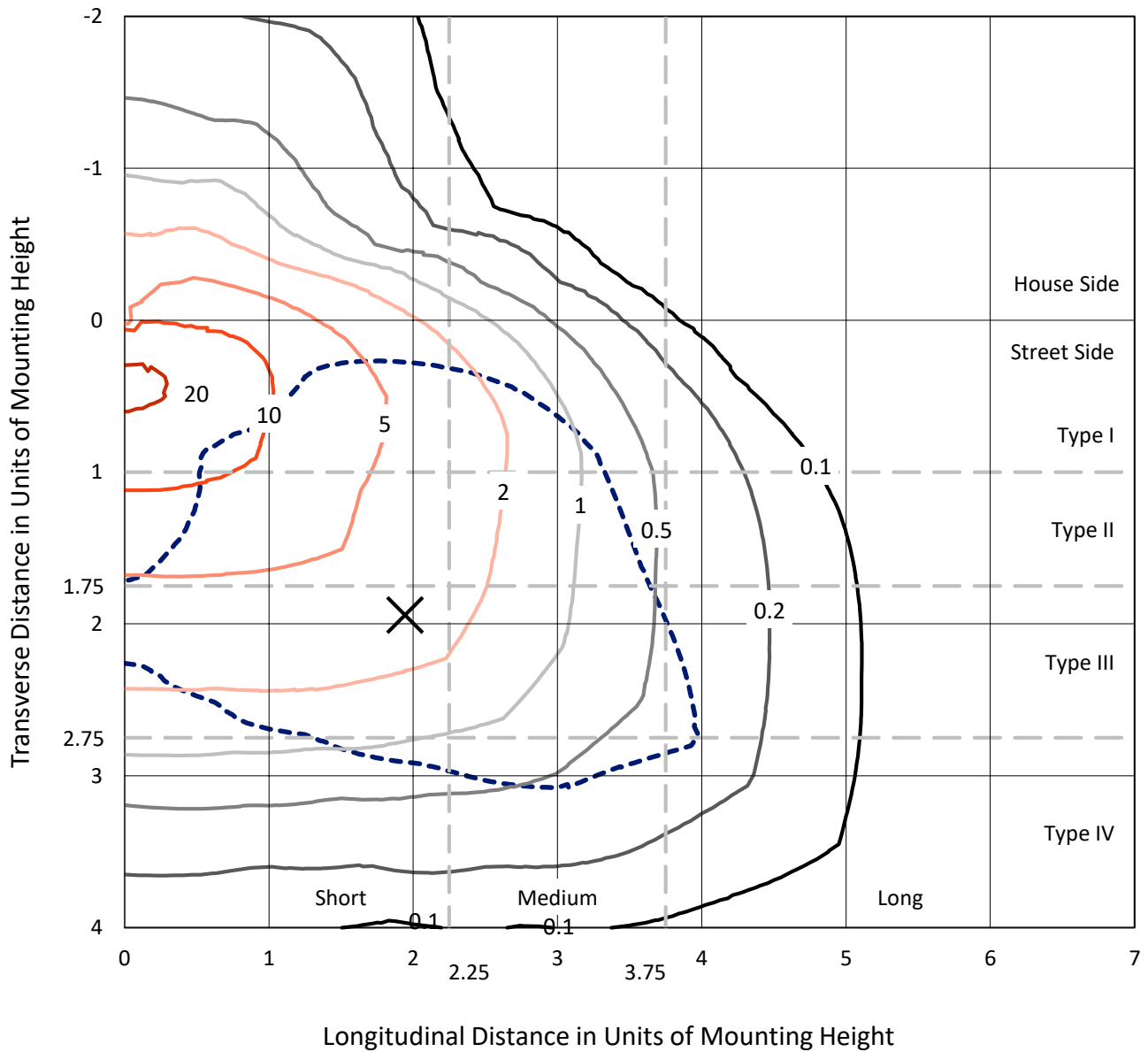
Input Watts (W): 21.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

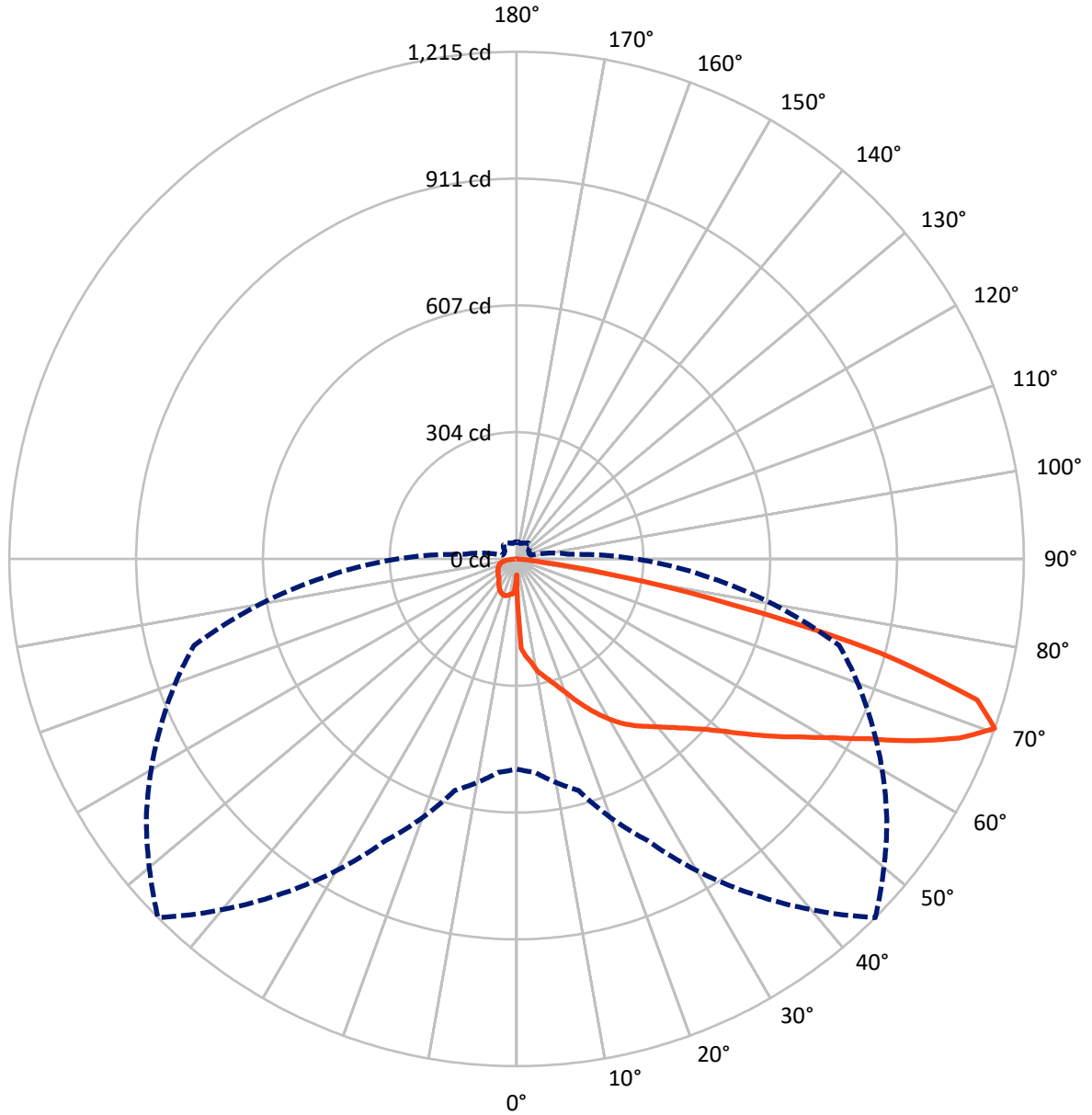
× Max cd
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 21 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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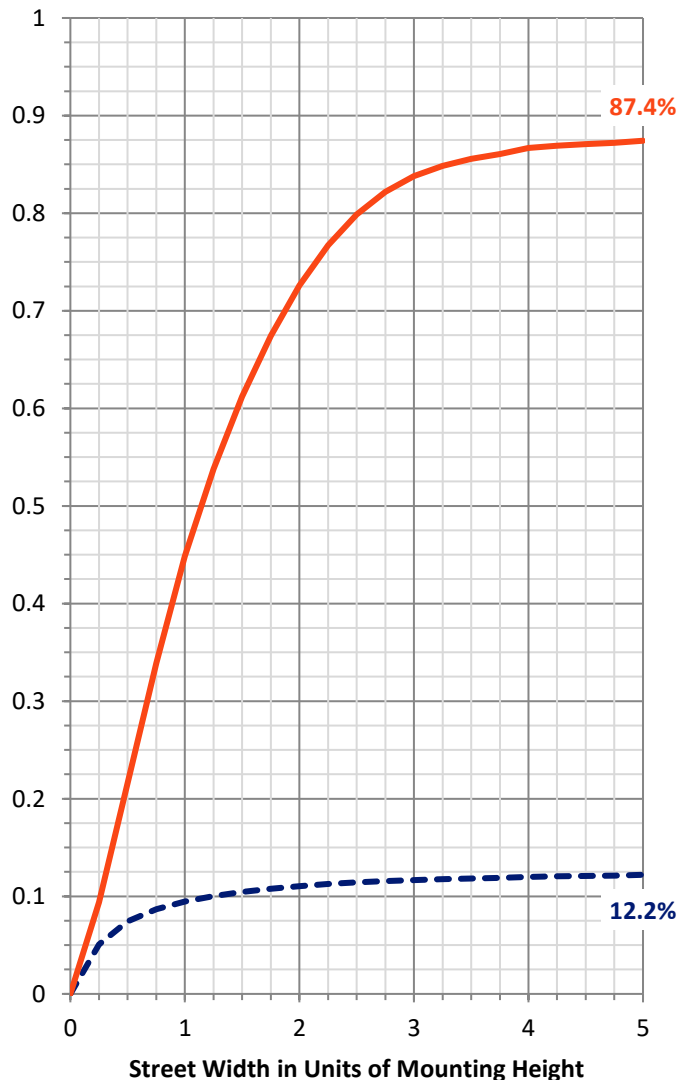
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	204.0	0.0	204.0
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	1435.9	0.0	1435.9
	% Fixture	87.6	0.0	87.6
Total	Lumens	1639.9	0.0	1639.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.0	0.9
10°-20°	54.7	3.3
20°-30°	108.5	6.6
30°-40°	173.4	10.6
40°-50°	241.3	14.7
50°-60°	324.0	19.8
60°-70°	422.5	25.8
70°-80°	273.3	16.7
80°-90°	27.2	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°	1639.9	100.0
0°-180°	1639.9	100.0

Coefficient of Utilization



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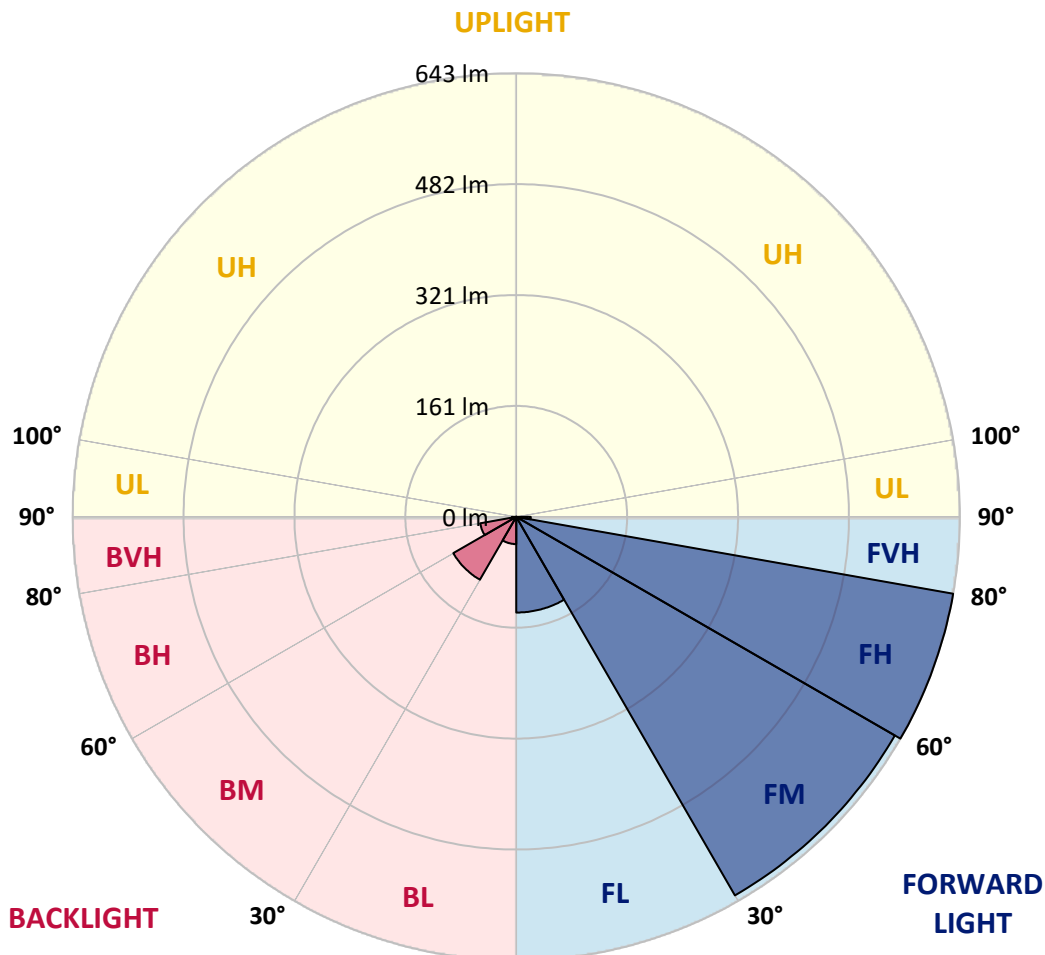
CATALOG NUMBER: BRT6-A4-727-U-T3-XX-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	138.7	8.5			
FM	(30°-60°)	633.4	38.6			
FH	(60°-80°)	642.8	39.2			G0/660
FVH	(80°-90°)	21.0	1.3			G1/100
BL	(0°-30°)	39.5	2.4	B0/110		
BM	(30°-60°)	105.3	6.4	B0/220		
BH	(60°-80°)	53.1	3.2	B0/110		G0/110
BVH	(80°-90°)	6.2	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°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
2.5°	255.3	256.2	256.2	250.7	224.1	214.0	192.8	175.4	157.0	138.7	130.4
5°	274.6	274.6	274.6	271.8	264.5	234.2	221.3	195.6	179.1	157.0	152.4
7.5°	292.9	293.9	292.9	290.2	285.6	249.8	238.8	205.7	191.9	162.5	157.0
10°	309.5	310.4	310.4	307.6	304.0	272.7	253.5	215.8	202.0	167.1	160.7
12.5°	327.8	328.8	327.8	325.1	319.6	287.4	266.3	234.2	210.3	171.7	164.4
15°	349.9	350.8	351.7	345.3	338.9	303.0	281.0	245.2	218.6	178.1	168.0
17.5°	374.7	374.7	374.7	371.0	361.8	321.4	294.8	257.1	228.7	185.5	171.7
20°	401.3	402.2	401.3	398.5	386.6	343.4	311.3	270.0	238.8	193.8	176.3
22.5°	425.2	427.9	428.8	424.3	414.2	369.2	331.5	283.8	250.7	202.9	181.8
25°	452.7	453.6	452.7	450.0	438.9	395.8	350.8	299.4	263.6	213.0	189.2
27.5°	476.6	478.4	477.5	472.9	465.6	422.4	371.9	317.7	277.3	224.1	199.3
30°	503.2	502.3	499.6	497.7	491.3	447.2	394.9	337.0	292.9	237.8	214.0
32.5°	523.4	523.4	519.8	517.9	511.5	470.2	415.1	355.4	310.4	258.0	232.3
35°	541.8	542.7	539.0	535.4	529.9	490.4	433.4	373.7	330.6	281.9	253.5
37.5°	559.2	560.2	559.2	552.8	547.3	508.7	452.7	394.9	352.6	307.6	272.7
40°	571.2	573.0	576.7	567.5	562.9	528.9	474.8	423.3	382.9	335.2	291.1
42.5°	567.5	569.3	581.3	581.3	579.4	551.9	500.5	456.4	415.1	363.6	308.5
45°	556.5	560.2	580.4	590.5	596.9	578.5	529.9	495.9	452.7	393.0	326.0
47.5°	543.6	545.5	572.1	591.4	616.2	609.7	563.8	535.4	499.6	421.5	341.6
50°	535.4	539.0	566.6	595.1	636.4	649.2	601.5	581.3	546.4	448.1	354.5
52.5°	542.7	548.2	572.1	607.0	661.2	697.0	642.8	628.1	595.1	469.3	366.4
55°	558.3	560.2	589.5	630.9	697.0	750.2	686.9	683.2	643.7	487.6	374.7
57.5°	577.6	579.4	616.2	661.2	740.1	804.4	736.5	737.4	691.5	503.2	381.1
60°	604.2	608.8	647.4	704.3	791.6	868.7	792.5	796.2	736.5	513.3	383.8
62.5°	622.6	630.0	674.0	750.2	853.1	948.6	855.9	847.6	778.7	518.8	381.1
65°	615.3	618.0	678.6	784.2	917.4	1049.6	933.9	894.4	811.8	515.2	369.2
67.5°	583.1	588.6	650.2	793.4	967.9	1144.2	1016.6	931.2	830.1	496.8	338.9
70°	503.2	513.3	573.9	744.7	978.0	1214.9	1082.7	939.4	799.8	448.1	285.6
72.5°	302.1	323.2	382.0	524.3	832.9	1153.4	1067.1	847.6	676.8	347.1	191.9
75°	153.4	157.9	177.2	261.7	514.2	899.9	912.8	663.0	495.0	202.0	108.4
77.5°	71.6	72.5	83.6	117.5	255.3	536.3	689.6	485.8	315.0	103.8	57.9
80°	39.5	42.2	45.0	57.9	79.0	246.1	434.4	294.8	179.1	45.9	25.7
82.5°	26.6	26.6	27.5	29.4	37.7	59.7	146.0	113.9	68.9	18.4	12.9
85°	10.1	11.0	11.9	12.9	14.7	15.6	16.5	15.6	11.0	6.4	4.6
87.5°	4.6	4.6	4.6	5.5	4.6	4.6	4.6	3.7	3.7	2.8	1.8
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°	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
2.5°	123.1	113.0	90.9	80.8	59.7	55.1	40.4	29.4	15.6	11.9
5°	140.5	121.2	107.4	89.1	80.8	57.9	54.2	31.2	33.1	46.8
7.5°	146.0	123.1	113.9	90.9	84.5	58.8	55.1	33.1	40.4	47.8
10°	153.4	124.9	114.8	91.8	85.4	59.7	56.0	36.7	50.5	50.5
12.5°	156.1	126.7	116.6	92.7	88.2	61.5	57.9	45.0	52.3	53.3
15°	158.9	127.6	118.5	95.5	90.0	64.3	59.7	53.3	53.3	54.2
17.5°	161.6	129.5	122.1	97.3	91.8	67.0	59.7	54.2	53.3	54.2
20°	164.4	133.2	125.8	99.2	91.8	70.7	59.7	54.2	53.3	54.2
22.5°	169.9	138.7	130.4	100.1	90.9	71.6	57.9	53.3	52.3	53.3
25°	177.2	146.9	133.2	101.0	89.1	70.7	56.9	52.3	50.5	51.4
27.5°	188.3	157.0	135.0	101.9	86.3	69.8	55.1	50.5	48.7	49.6
30°	203.9	166.2	134.1	100.1	82.6	68.0	53.3	48.7	47.8	48.7
32.5°	222.2	172.6	131.3	96.4	79.0	66.1	51.4	46.8	45.9	46.8
35°	237.8	174.5	124.9	90.0	75.3	64.3	49.6	45.0	45.0	45.9
37.5°	250.7	172.6	115.7	84.5	70.7	61.5	47.8	44.1	44.1	44.1
40°	260.8	167.1	105.6	78.1	66.1	58.8	46.8	43.2	43.2	44.1
42.5°	268.1	158.9	96.4	73.5	63.4	57.9	45.9	42.2	42.2	43.2
45°	273.7	148.8	88.2	68.0	60.6	56.0	44.1	40.4	40.4	41.3
47.5°	279.2	138.7	79.9	64.3	59.7	55.1	42.2	40.4	40.4	41.3
50°	281.9	128.6	73.5	61.5	57.9	52.3	41.3	40.4	42.2	42.2
52.5°	283.8	119.4	67.0	57.9	56.9	51.4	42.2	42.2	43.2	44.1
55°	281.9	107.4	60.6	54.2	54.2	51.4	43.2	43.2	44.1	44.1
57.5°	273.7	93.7	54.2	51.4	52.3	52.3	44.1	43.2	44.1	45.0
60°	262.6	79.0	49.6	48.7	51.4	52.3	45.0	43.2	45.0	45.0
62.5°	242.4	63.4	44.1	45.0	50.5	52.3	45.0	42.2	45.0	45.0
65°	211.2	50.5	39.5	41.3	48.7	51.4	44.1	41.3	43.2	44.1
67.5°	172.6	42.2	35.8	37.7	46.8	50.5	43.2	40.4	41.3	43.2
70°	127.6	35.8	33.1	34.9	45.0	46.8	42.2	38.6	40.4	41.3
72.5°	83.6	30.3	29.4	32.1	43.2	43.2	40.4	36.7	38.6	40.4
75°	48.7	23.9	23.9	28.5	40.4	39.5	38.6	31.2	34.0	37.7
77.5°	30.3	18.4	20.2	23.9	37.7	36.7	35.8	26.6	29.4	34.9
80°	14.7	13.8	14.7	20.2	32.1	32.1	33.1	23.0	25.7	32.1
82.5°	8.3	8.3	10.1	13.8	28.5	27.5	28.5	19.3	22.0	28.5
85°	4.6	5.5	5.5	9.2	19.3	17.4	23.9	13.8	16.5	22.0
87.5°	1.8	1.8	0.9	0.9	2.8	0.9	2.8	1.8	5.5	7.3
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



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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)