

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-A3-730-U-T5S-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 (G3-2006-849-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/14/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: BRT6-A3-730-U-T5S-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 3000LM, TYPE V SQUARE SYMMETRICAL, BLACK FINISH
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3040 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

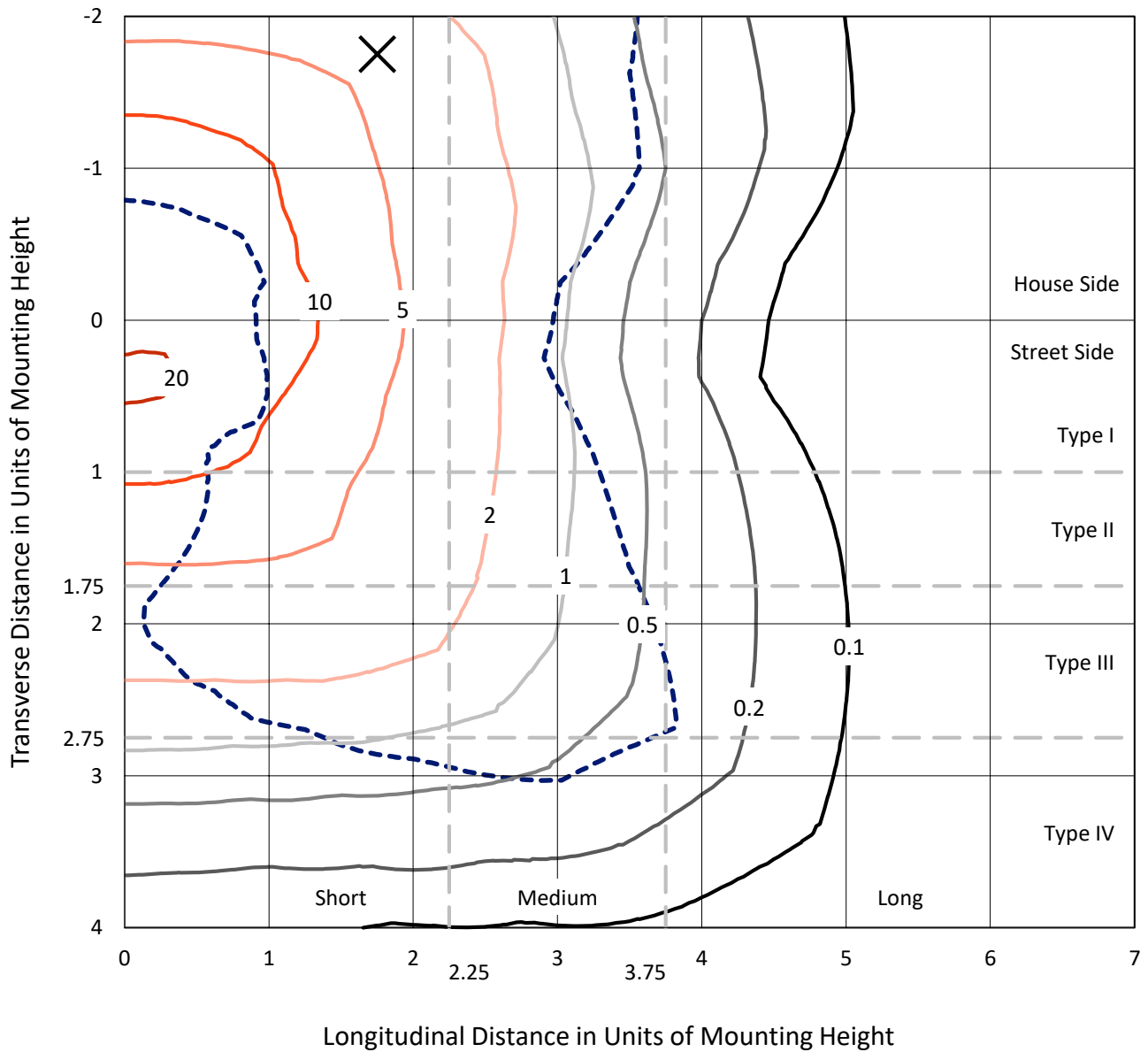
Input Watts (W): 34.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

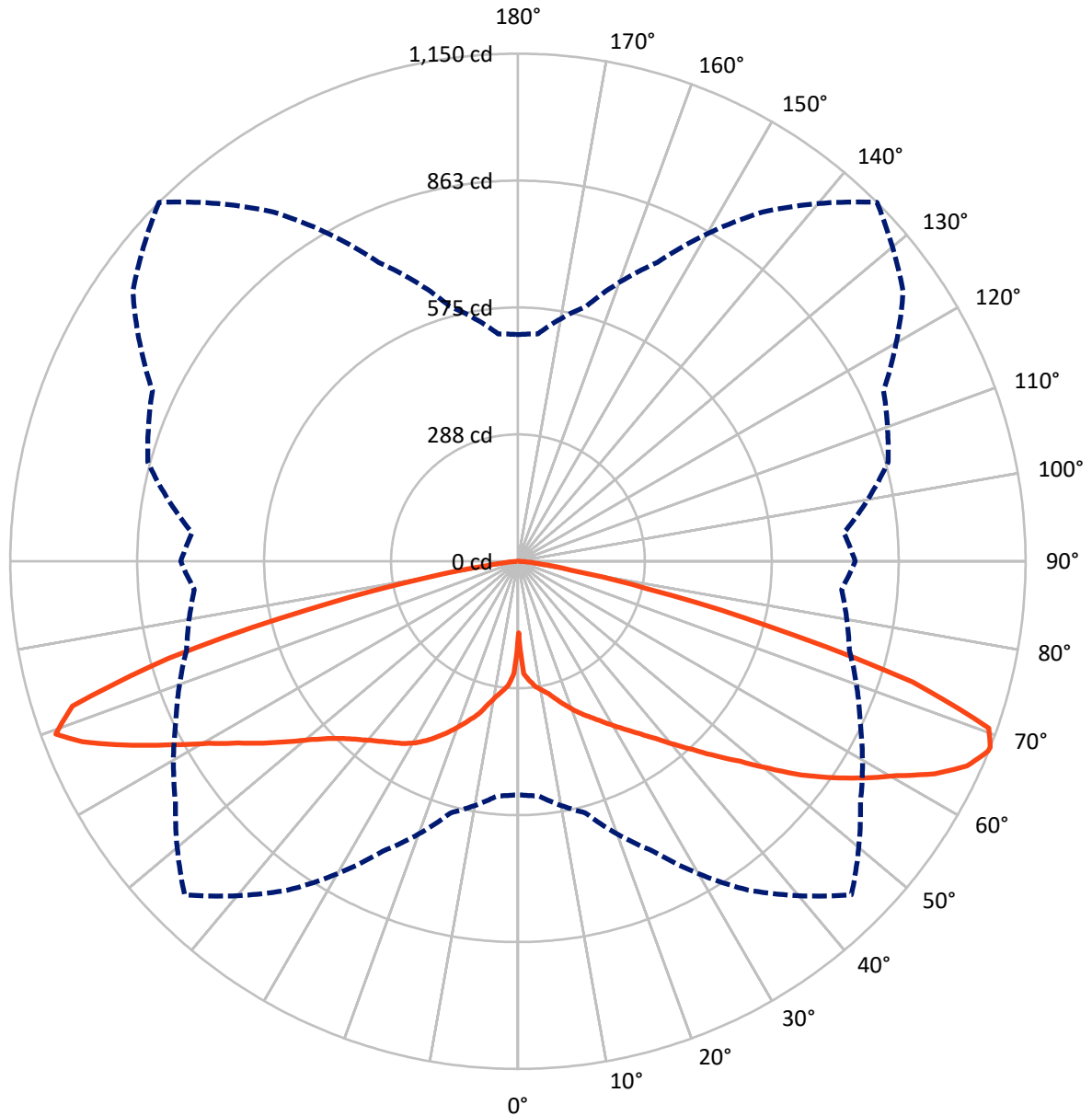
✕ Max cd
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 21.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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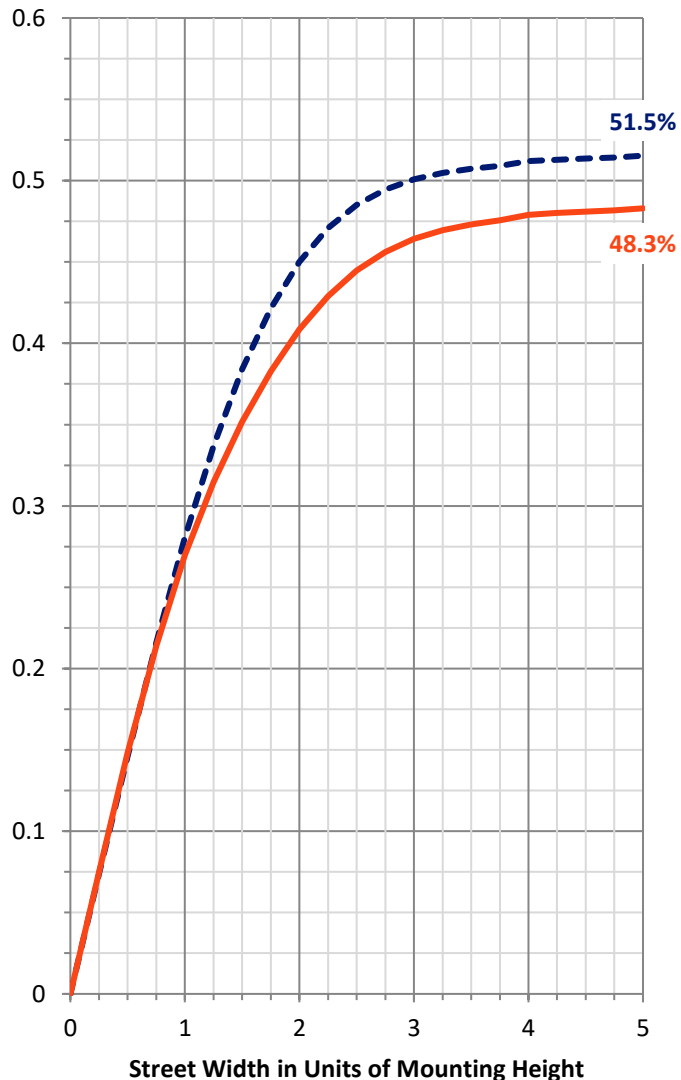
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1568.8	0.0	1568.8
	% Fixture	51.6	0.0	51.6
Street Side	Lumens	1471.2	0.0	1471.2
	% Fixture	48.4	0.0	48.4
Total	Lumens	3040.0	0.0	3040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.4	0.9
10°-20°	94.0	3.1
20°-30°	187.6	6.2
30°-40°	309.9	10.2
40°-50°	460.0	15.1
50°-60°	645.3	21.2
60°-70°	805.3	26.5
70°-80°	469.9	15.5
80°-90°	41.6	1.4
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°	3040.0	100.0
0°-180°	3040.0	100.0

Coefficient of Utilization



REPORT NUMBER: P#

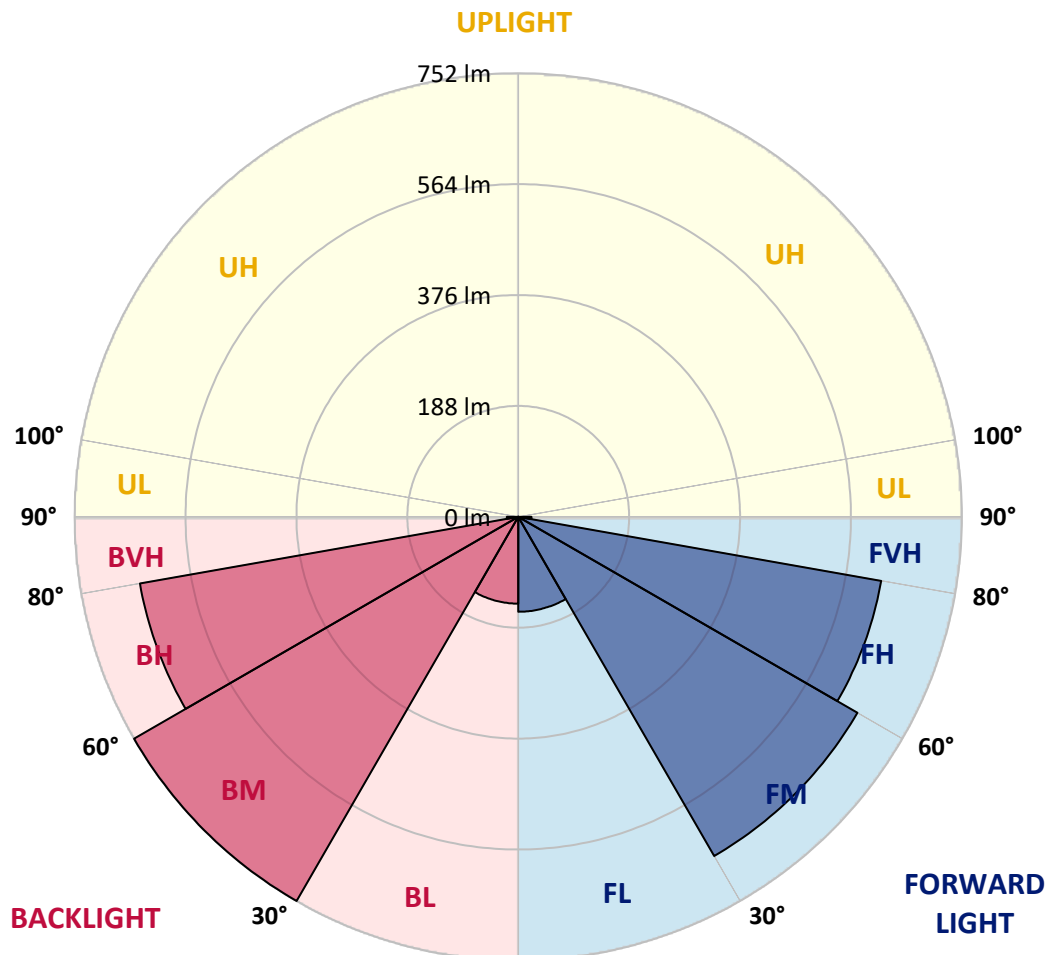
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	160.9	5.3			
FM	(30°-60°)	663.6	21.8			
FH	(60°-80°)	624.4	20.5			G0/660
FVH	(80°-90°)	22.3	0.7			G1/100
BL	(0°-30°)	147.1	4.8	B1/500		
BM	(30°-60°)	751.6	24.7	B1/1000		
BH	(60°-80°)	650.8	21.4	B2/1000		G0/660
BVH	(80°-90°)	19.3	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0
2.5°	230.1	231.6	251.5	255.3	250.7	253.0	248.4	249.9	243.8	248.4	244.6
5°	287.4	270.6	271.3	292.0	285.1	282.0	272.1	278.2	262.9	271.3	269.1
7.5°	306.5	292.0	290.5	310.3	308.8	296.6	292.0	288.2	281.3	279.8	279.0
10°	324.9	324.9	314.2	327.9	327.1	312.6	307.3	299.6	293.5	286.6	285.1
12.5°	343.2	342.4	340.1	345.5	348.5	332.5	322.6	310.3	307.3	294.3	292.7
15°	364.6	363.1	361.5	363.8	370.7	357.7	337.8	324.1	318.7	302.7	299.6
17.5°	389.1	388.3	386.8	387.5	392.9	376.1	353.9	340.1	331.0	311.9	308.0
20°	410.5	408.9	409.7	411.2	417.3	395.9	369.2	358.5	344.7	324.9	318.0
22.5°	430.3	430.3	431.1	432.6	441.0	416.6	389.1	378.4	360.8	338.6	330.2
25°	449.4	449.4	452.5	454.0	462.4	436.4	408.2	398.2	379.1	354.7	344.7
27.5°	469.3	467.8	468.6	470.8	481.5	455.6	426.5	416.6	397.5	374.5	364.6
30°	486.1	484.6	485.4	487.7	499.9	472.4	444.1	432.6	416.6	402.1	392.9
32.5°	500.7	499.1	499.1	502.2	515.2	486.9	459.4	448.7	438.7	437.2	428.0
35°	513.6	511.4	513.6	515.2	527.4	498.4	470.1	463.2	460.1	471.6	464.0
37.5°	525.1	522.8	526.6	525.1	537.3	511.4	480.0	477.7	483.8	506.8	500.7
40°	533.5	532.8	540.4	536.6	548.0	525.9	493.8	495.3	509.8	543.5	538.9
42.5°	528.2	528.9	542.7	547.3	558.7	542.7	511.4	517.5	538.9	584.7	577.9
45°	519.0	522.1	538.1	553.4	571.7	562.6	535.1	541.9	571.7	626.0	619.9
47.5°	502.2	505.2	530.5	553.4	585.5	588.6	558.7	571.7	607.7	667.3	661.2
50°	495.3	498.4	525.1	554.9	601.5	622.2	590.1	606.9	641.3	704.7	700.9
52.5°	499.9	506.0	530.5	565.6	623.7	663.5	619.1	642.1	675.7	739.1	737.6
55°	514.4	517.5	546.5	587.0	656.6	709.3	655.8	678.7	709.3	770.5	771.2
57.5°	532.8	535.1	567.9	616.8	695.6	755.9	694.0	720.8	736.8	795.7	798.8
60°	557.2	559.5	597.0	655.1	741.4	812.5	740.7	766.7	757.5	814.8	820.2
62.5°	576.3	578.6	620.7	694.8	799.5	885.1	794.9	804.9	770.5	820.2	830.1
65°	567.9	570.2	623.0	723.8	858.4	967.7	863.7	832.4	779.6	801.0	819.4
67.5°	540.4	544.2	597.7	729.2	902.7	1051.8	934.8	852.3	779.6	752.9	776.6
68°	528.9	533.5	590.1	724.6	909.6	1068.6	947.8	855.3	777.4	736.1	764.4
70°	469.3	472.4	532.0	679.5	914.2	1118.3	998.3	857.6	749.8	649.7	682.6
72.5°	298.1	303.4	346.3	492.2	765.9	1061.7	989.1	778.1	639.0	474.7	490.0
75°	155.9	153.6	178.1	262.2	481.5	822.4	845.4	607.7	463.2	267.5	273.6
77.5°	81.8	79.5	87.9	123.8	235.4	490.0	616.8	437.2	286.6	135.3	146.0
80°	53.5	52.0	53.5	67.3	96.3	234.7	366.1	268.3	165.9	57.3	58.1
82.5°	39.0	35.2	37.5	42.0	51.2	71.1	129.2	110.1	71.8	23.7	26.0
85°	21.4	19.1	18.3	24.5	23.7	26.0	20.6	16.8	13.8	9.2	9.2
87.5°	12.2	7.6	6.1	7.6	6.1	6.1	5.4	4.6	5.4	3.8	3.8
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°	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0	162.0
2.5°	246.1	252.2	249.9	249.2	255.3	256.1	256.1	246.1	237.0	243.8
5°	263.7	268.3	268.3	272.1	271.3	274.4	271.3	254.5	259.9	253.8
7.5°	280.5	275.9	281.3	279.8	286.6	280.5	277.5	264.5	265.2	272.9
10°	288.2	282.8	288.9	286.6	296.6	292.0	285.9	273.6	272.9	281.3
12.5°	297.3	289.7	298.9	295.8	307.3	305.0	297.3	285.9	285.9	293.5
15°	306.5	298.1	310.3	308.0	324.1	321.8	314.2	301.9	305.7	310.3
17.5°	314.9	308.0	324.1	322.6	341.7	340.1	333.3	321.8	327.1	328.7
20°	325.6	319.5	339.4	340.1	359.2	360.0	351.6	344.0	347.8	350.1
22.5°	339.4	336.3	358.5	356.2	376.8	379.9	373.0	368.4	372.2	375.3
25°	357.7	357.0	376.8	373.0	392.9	402.1	395.2	395.2	400.5	403.6
27.5°	384.5	379.1	395.9	391.4	412.0	426.5	421.2	425.7	429.6	433.4
30°	415.0	403.6	415.0	410.5	433.4	451.7	450.2	456.3	462.4	466.3
32.5°	449.4	429.6	434.2	429.6	455.6	477.7	480.0	490.7	496.8	499.1
35°	486.9	456.3	455.6	451.0	480.8	508.3	514.4	528.2	532.0	535.1
37.5°	523.6	483.1	479.3	476.2	510.6	542.7	547.3	564.9	565.6	566.4
40°	558.7	512.9	509.1	507.5	545.8	575.6	584.7	599.3	599.3	597.0
42.5°	593.1	542.7	543.5	542.7	584.0	613.8	621.4	630.6	626.8	626.0
45°	632.1	571.0	582.4	584.0	629.1	653.5	654.3	661.2	659.6	658.1
47.5°	673.4	600.0	626.0	626.8	677.2	699.4	691.0	694.8	693.3	690.2
50°	716.2	632.1	668.8	673.4	737.6	744.5	727.7	728.4	726.1	721.6
52.5°	752.9	668.8	709.3	721.6	804.1	800.3	768.9	762.8	755.9	748.3
55°	787.3	707.8	749.8	774.3	865.3	852.3	810.2	793.4	775.1	770.5
57.5°	811.0	742.2	791.9	819.4	926.4	906.5	846.1	809.5	775.8	768.2
60°	821.7	778.1	840.8	870.6	986.0	953.2	869.8	804.9	759.0	749.1
62.5°	812.5	810.2	879.0	929.5	1060.2	988.3	869.1	778.9	717.0	706.3
65°	789.6	840.0	905.8	994.4	1118.3	996.0	837.0	717.0	638.2	626.0
67.5°	749.8	865.3	914.2	1054.8	1148.8	976.1	768.9	616.8	540.4	530.5
68°	741.4	868.3	914.2	1065.5	1150.4	966.1	747.5	598.5	517.5	513.6
70°	682.6	866.8	911.9	1104.5	1132.0	878.2	633.7	471.6	410.5	395.9
72.5°	530.5	768.2	826.3	1031.1	935.6	613.0	384.5	263.7	233.1	220.1
75°	322.6	563.3	613.8	777.4	585.5	330.2	207.1	144.5	129.9	129.9
77.5°	176.6	351.6	410.5	522.1	300.4	175.8	115.4	85.6	81.0	86.4
80°	71.8	186.5	243.8	250.7	123.8	87.1	72.6	53.5	52.7	55.0
82.5°	27.5	73.4	81.0	64.2	53.5	51.2	45.9	35.9	34.4	40.5
85°	9.2	13.8	16.8	17.6	26.8	28.3	30.6	21.4	20.6	26.8
87.5°	4.6	5.4	4.6	5.4	6.1	6.1	6.1	6.1	6.9	13.0
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
1121 Highway 74 South
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Scaled Data Report





— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



--- HS — SS



0°

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

Scaled Data Report





(END OF REPORT)