

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-A4-730-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-A4-730-U-T4-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 2000LM, WIDE PATH ASYMMETRICAL, BLACK FINISH
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1997 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

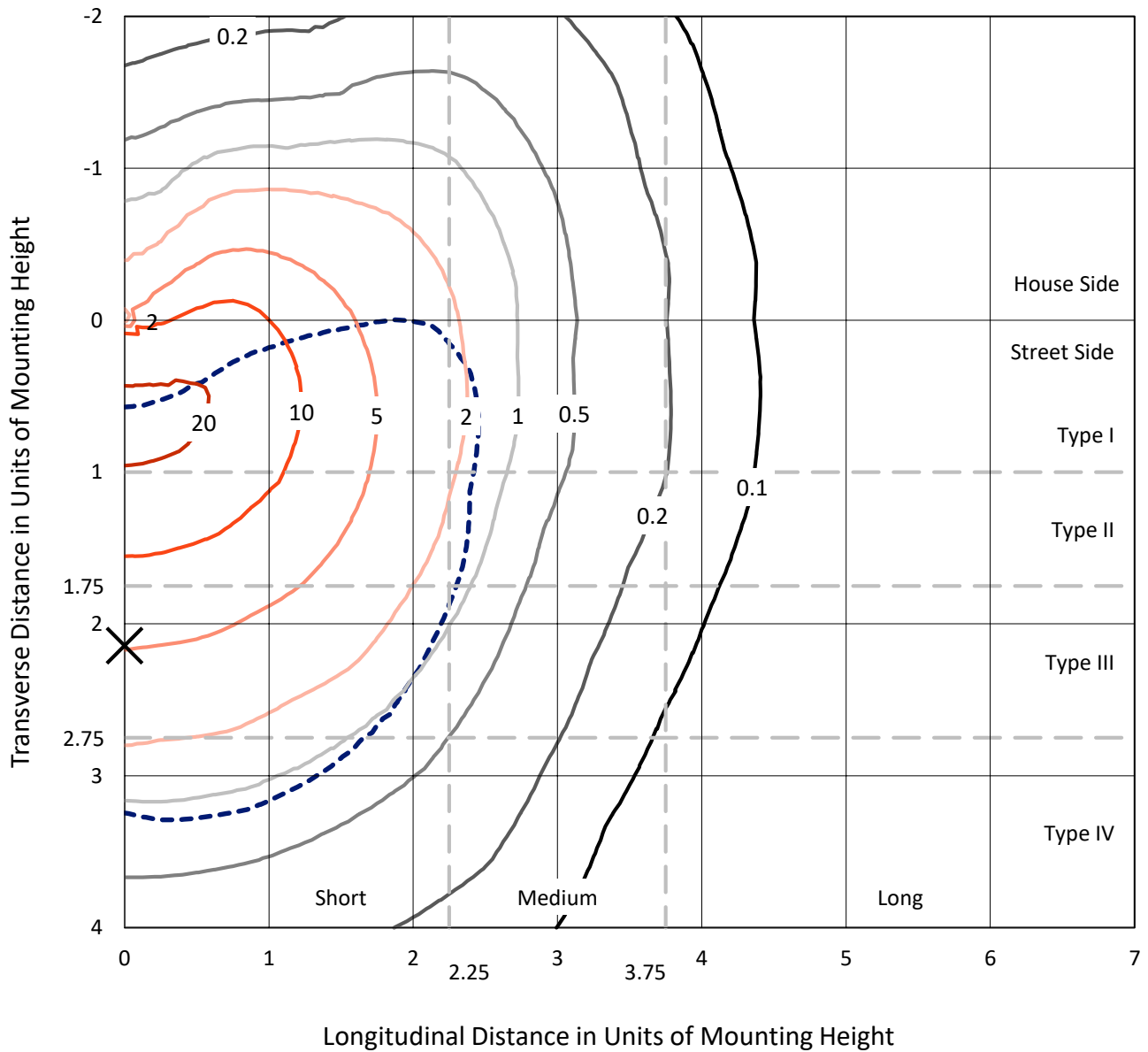
Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

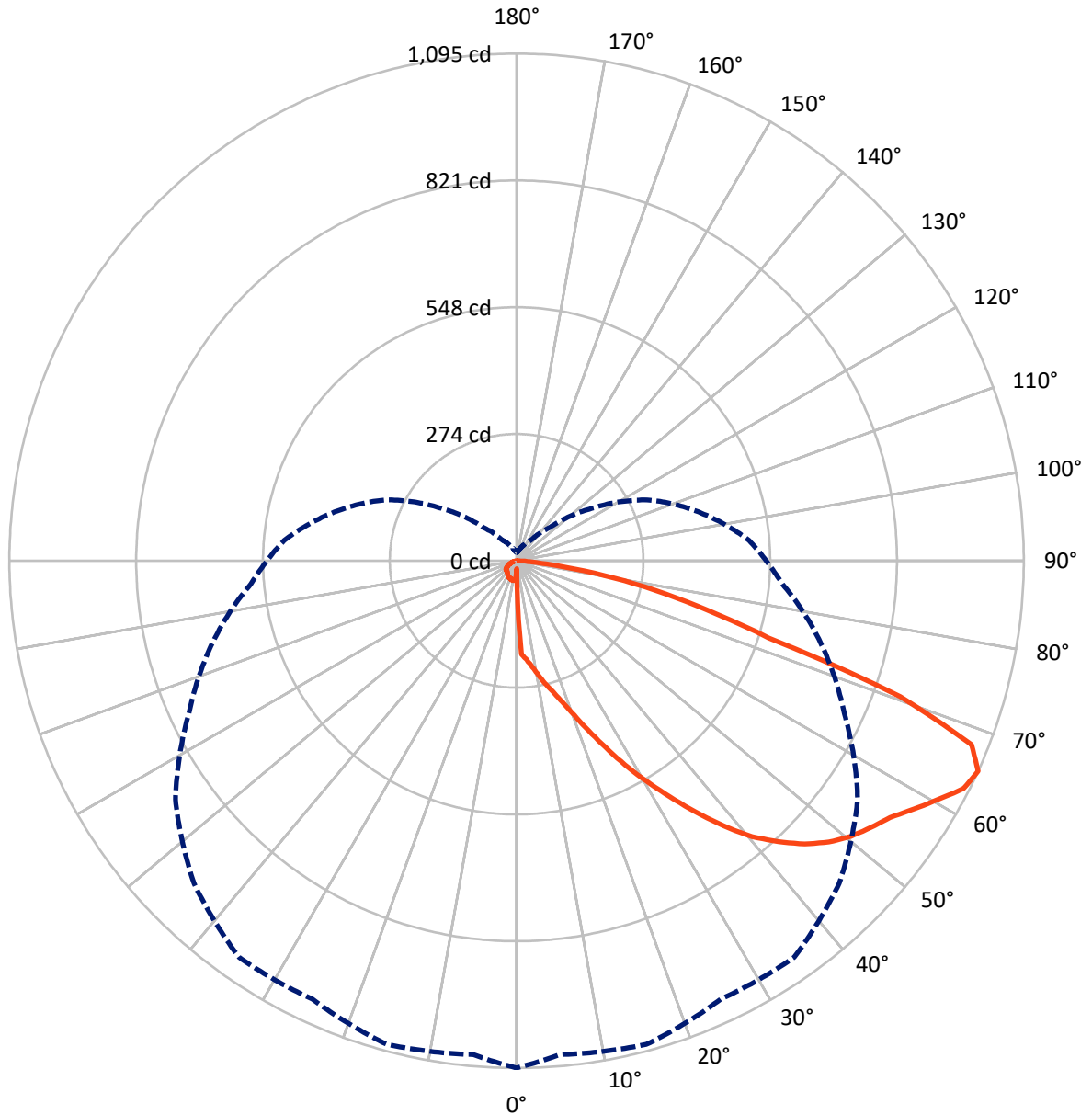
✕ Max cd
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 22.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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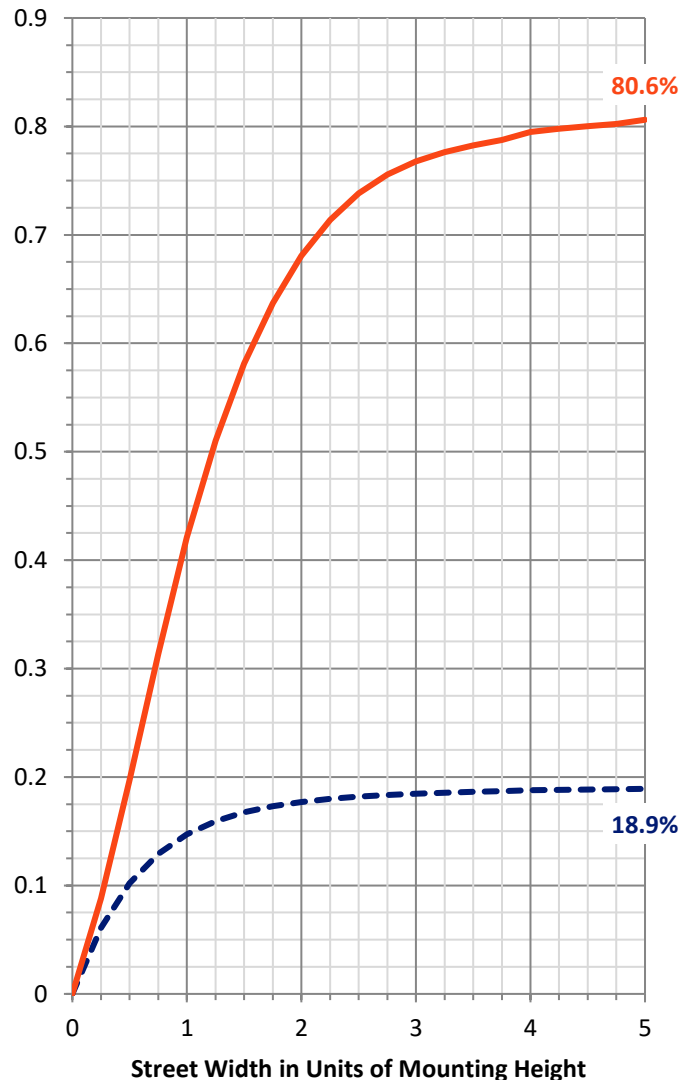
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	379.5	0.0	379.5
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1617.5	0.0	1617.5
	% Fixture	81.0	0.0	81.0
Total	Lumens	1997.0	0.0	1997.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.0	0.6
10°-20°	49.0	2.5
20°-30°	114.3	5.7
30°-40°	224.5	11.2
40°-50°	351.8	17.6
50°-60°	461.9	23.1
60°-70°	517.7	25.9
70°-80°	236.4	11.8
80°-90°	29.5	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°	1997.0	100.0
0°-180°	1997.0	100.0

Coefficient of Utilization



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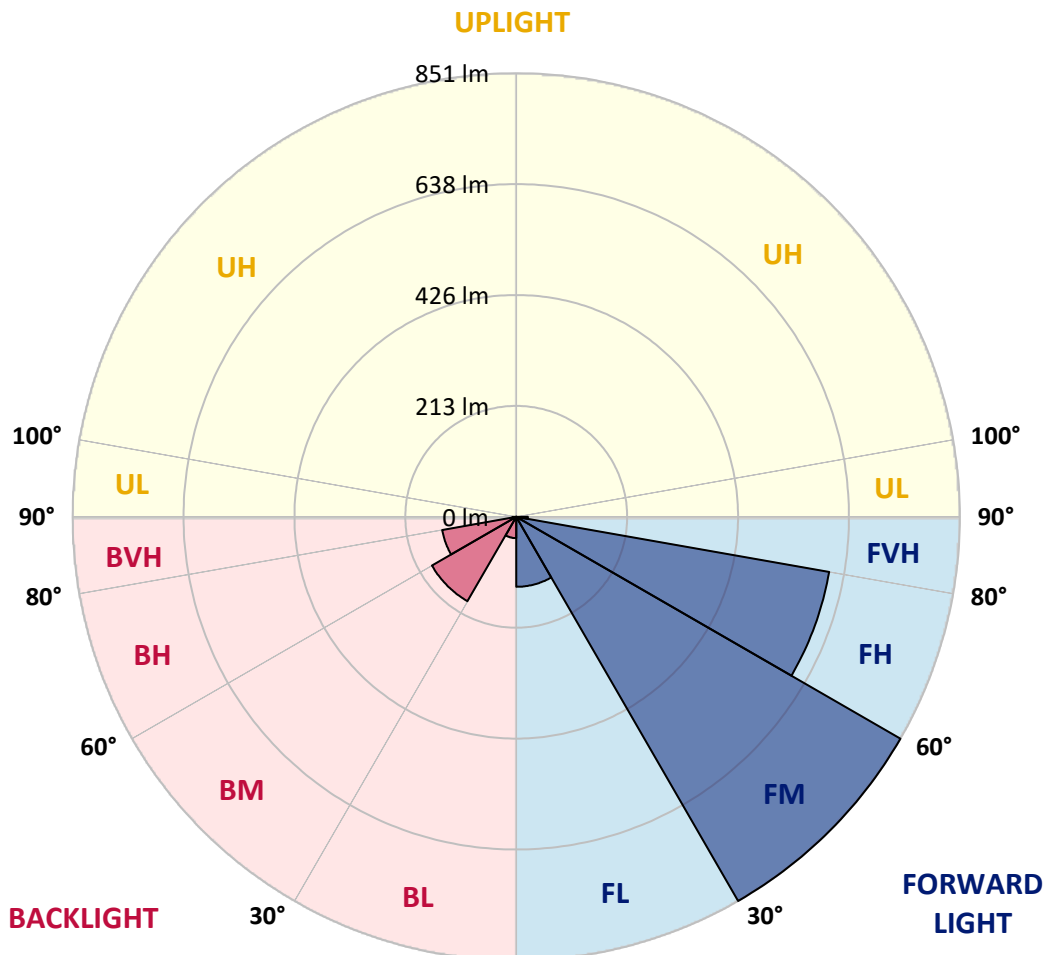
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	134.3	6.7			
FM	(30°-60°)	851.2	42.6			
FH	(60°-80°)	609.7	30.5			G0/660
FVH	(80°-90°)	22.2	1.1			G1/100
BL	(0°-30°)	41.0	2.1	B0/110		
BM	(30°-60°)	186.9	9.4	B0/220		
BH	(60°-80°)	144.4	7.2	B1/500		G1/500
BVH	(80°-90°)	7.3	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
2.5°	202.0	198.0	185.0	173.0	161.0	145.0	136.0	124.0	112.0	101.0	100.0
5°	213.0	212.0	212.0	196.0	190.0	174.0	165.0	151.0	141.0	126.0	121.0
7.5°	228.0	228.0	228.0	222.0	208.0	196.0	185.0	166.0	156.0	137.0	134.0
10°	248.0	248.0	247.0	245.0	228.0	219.0	201.0	184.0	171.0	151.0	144.0
12.5°	271.0	270.0	268.0	265.0	247.0	240.0	220.0	204.0	186.0	163.0	155.0
15°	293.1	294.1	292.1	288.1	271.0	262.0	240.0	225.0	202.0	178.0	167.0
17.5°	320.1	321.1	317.1	314.1	298.1	287.1	264.0	247.0	221.0	196.0	183.0
20°	356.1	354.1	351.1	348.1	330.1	316.1	291.1	274.1	245.0	217.0	201.0
22.5°	398.1	396.1	394.1	388.1	366.1	354.1	324.1	304.1	270.0	240.0	222.0
25°	446.1	447.1	439.1	436.1	410.1	398.1	362.1	339.1	301.1	266.0	245.0
27.5°	499.1	500.1	492.1	488.1	463.1	447.1	410.1	380.1	334.1	294.1	272.0
30°	552.1	554.1	550.1	546.1	517.1	500.1	456.1	423.1	371.1	324.1	298.1
32.5°	607.1	611.1	604.1	605.1	577.1	557.1	509.1	470.1	414.1	358.1	328.1
35°	666.1	669.1	664.1	665.1	636.1	617.1	562.1	517.1	455.1	392.1	360.1
37.5°	726.1	726.1	722.1	723.1	691.1	668.1	608.1	565.1	493.1	424.1	390.1
40°	783.1	783.1	779.1	773.1	746.1	714.1	659.1	604.1	530.1	449.1	412.1
42.5°	829.2	828.2	821.1	818.1	790.1	757.1	703.1	639.1	560.1	474.1	433.1
45°	872.2	871.2	859.2	857.2	830.2	797.1	741.1	675.1	585.1	495.1	453.1
47.5°	907.2	907.2	895.2	894.2	865.2	834.2	773.1	705.1	609.1	518.1	468.1
50°	935.2	935.2	922.2	927.2	889.2	869.2	800.1	732.1	633.1	537.1	487.1
52.5°	957.2	961.2	949.2	956.2	915.2	901.2	827.2	754.1	654.1	554.1	504.1
55°	978.2	987.2	974.2	982.2	939.2	931.2	853.2	777.1	672.1	567.1	521.1
57.5°	1011.2	1015.2	1003.2	1004.2	965.2	953.2	878.2	795.1	688.1	578.1	532.1
60°	1046.2	1043.2	1036.2	1023.2	998.2	976.2	898.2	806.1	701.1	589.1	543.1
62.5°	1083.2	1062.2	1065.2	1041.2	1028.2	990.2	910.2	808.1	702.1	593.1	549.1
65°	1095.2	1070.2	1081.2	1044.2	1045.2	985.2	899.2	781.1	679.1	576.1	539.1
67.5°	1059.2	1036.2	1058.2	998.2	1024.2	924.2	833.2	694.1	615.1	523.1	499.1
70°	879.2	838.2	877.2	809.1	838.2	707.1	615.1	483.1	445.1	386.1	380.1
72.5°	568.1	592.1	605.1	585.1	543.1	461.1	369.1	310.1	314.1	266.0	277.1
75°	424.1	424.1	423.1	405.1	390.1	307.1	236.0	212.0	224.0	197.0	190.0
77.5°	307.1	300.1	284.1	284.1	274.1	194.0	163.0	152.0	154.0	144.0	134.0
80°	191.0	203.0	183.0	183.0	167.0	118.0	102.0	100.0	93.0	85.0	83.0
82.5°	89.0	97.0	88.0	91.0	75.0	58.0	51.0	48.0	41.0	37.0	38.0
85°	32.0	30.0	27.0	27.0	24.0	19.0	17.0	16.0	13.0	13.0	13.0
87.5°	14.0	13.0	12.0	12.0	11.0	10.0	10.0	8.0	6.0	5.0	4.0
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°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
2.5°	95.0	82.0	74.0	62.0	56.0	43.0	39.0	26.0	31.0	32.0
5°	111.0	102.0	86.0	79.0	63.0	57.0	44.0	39.0	40.0	42.0
7.5°	127.0	109.0	98.0	84.0	69.0	60.0	49.0	43.0	45.0	43.0
10°	138.0	116.0	105.0	87.0	75.0	61.0	49.0	46.0	47.0	43.0
12.5°	148.0	125.0	110.0	90.0	77.0	62.0	51.0	47.0	47.0	43.0
15°	160.0	133.0	116.0	93.0	79.0	62.0	52.0	46.0	46.0	42.0
17.5°	173.0	144.0	124.0	97.0	80.0	62.0	51.0	45.0	46.0	41.0
20°	190.0	156.0	132.0	102.0	82.0	62.0	51.0	44.0	45.0	40.0
22.5°	206.0	169.0	140.0	107.0	84.0	62.0	50.0	42.0	44.0	40.0
25°	227.0	184.0	151.0	113.0	87.0	62.0	49.0	41.0	42.0	39.0
27.5°	250.0	201.0	164.0	120.0	91.0	62.0	48.0	39.0	40.0	38.0
30°	276.1	221.0	176.0	129.0	95.0	64.0	47.0	38.0	39.0	37.0
32.5°	302.1	240.0	189.0	137.0	101.0	66.0	47.0	37.0	37.0	36.0
35°	330.1	260.0	202.0	146.0	106.0	68.0	47.0	36.0	36.0	34.0
37.5°	354.1	280.1	216.0	155.0	112.0	71.0	48.0	36.0	34.0	33.0
40°	378.1	297.1	228.0	163.0	117.0	73.0	49.0	36.0	33.0	31.0
42.5°	396.1	311.1	238.0	169.0	121.0	76.0	50.0	36.0	33.0	31.0
45°	413.1	324.1	245.0	174.0	124.0	79.0	52.0	36.0	32.0	30.0
47.5°	427.1	335.1	251.0	177.0	125.0	81.0	54.0	37.0	32.0	30.0
50°	441.1	346.1	255.0	179.0	123.0	82.0	55.0	38.0	31.0	30.0
52.5°	455.1	355.1	259.0	181.0	119.0	80.0	54.0	38.0	30.0	29.0
55°	468.1	366.1	262.0	181.0	114.0	77.0	53.0	37.0	28.0	27.0
57.5°	481.1	376.1	267.0	181.0	109.0	72.0	50.0	35.0	27.0	25.0
60°	496.1	389.1	276.1	183.0	102.0	67.0	46.0	33.0	25.0	23.0
62.5°	506.1	402.1	292.1	187.0	98.0	61.0	42.0	30.0	22.0	20.0
65°	504.1	407.1	311.1	197.0	102.0	55.0	38.0	27.0	19.0	18.0
67.5°	472.1	391.1	323.1	201.0	116.0	49.0	33.0	24.0	17.0	15.0
70°	382.1	346.1	300.1	216.0	119.0	44.0	30.0	20.0	15.0	13.0
72.5°	265.0	263.0	232.0	208.0	116.0	43.0	27.0	17.0	13.0	11.0
75°	198.0	177.0	189.0	163.0	108.0	45.0	24.0	14.0	10.0	9.0
77.5°	139.0	126.0	129.0	120.0	88.0	41.0	20.0	11.0	8.0	7.0
80°	86.0	76.0	81.0	71.0	58.0	31.0	15.0	8.0	5.0	5.0
82.5°	40.0	32.0	34.0	30.0	27.0	16.0	8.0	5.0	3.0	3.0
85°	12.0	9.0	9.0	7.0	6.0	6.0	4.0	2.0	2.0	1.0
87.5°	4.0	3.0	3.0	2.0	1.0	1.0	1.0	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)