

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-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-A4-740-U-T4-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 2000LM, WIDE PATH ASYMMETRICAL, BLACK FINISH
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2193 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

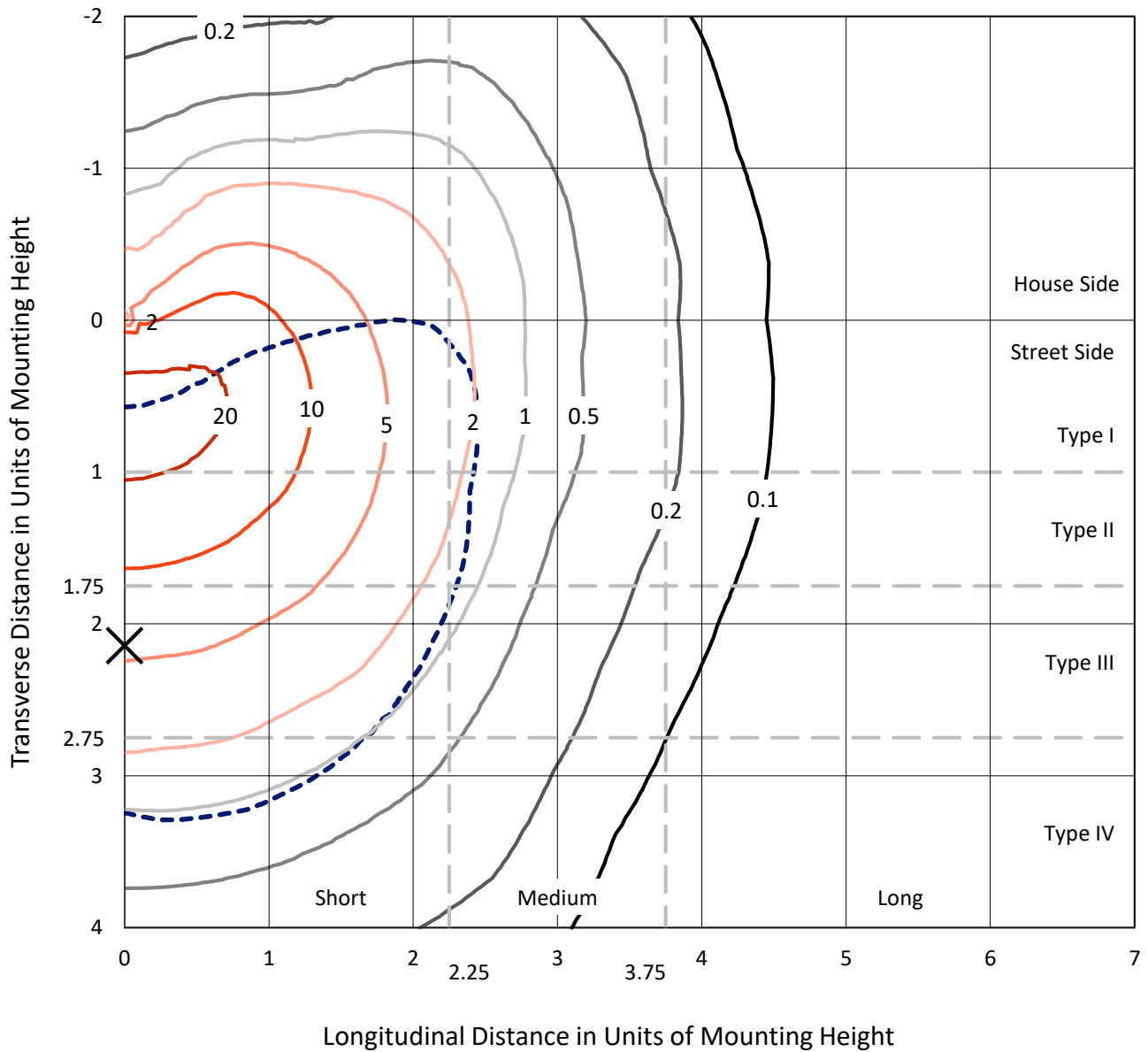
Input Watts (W): 21.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

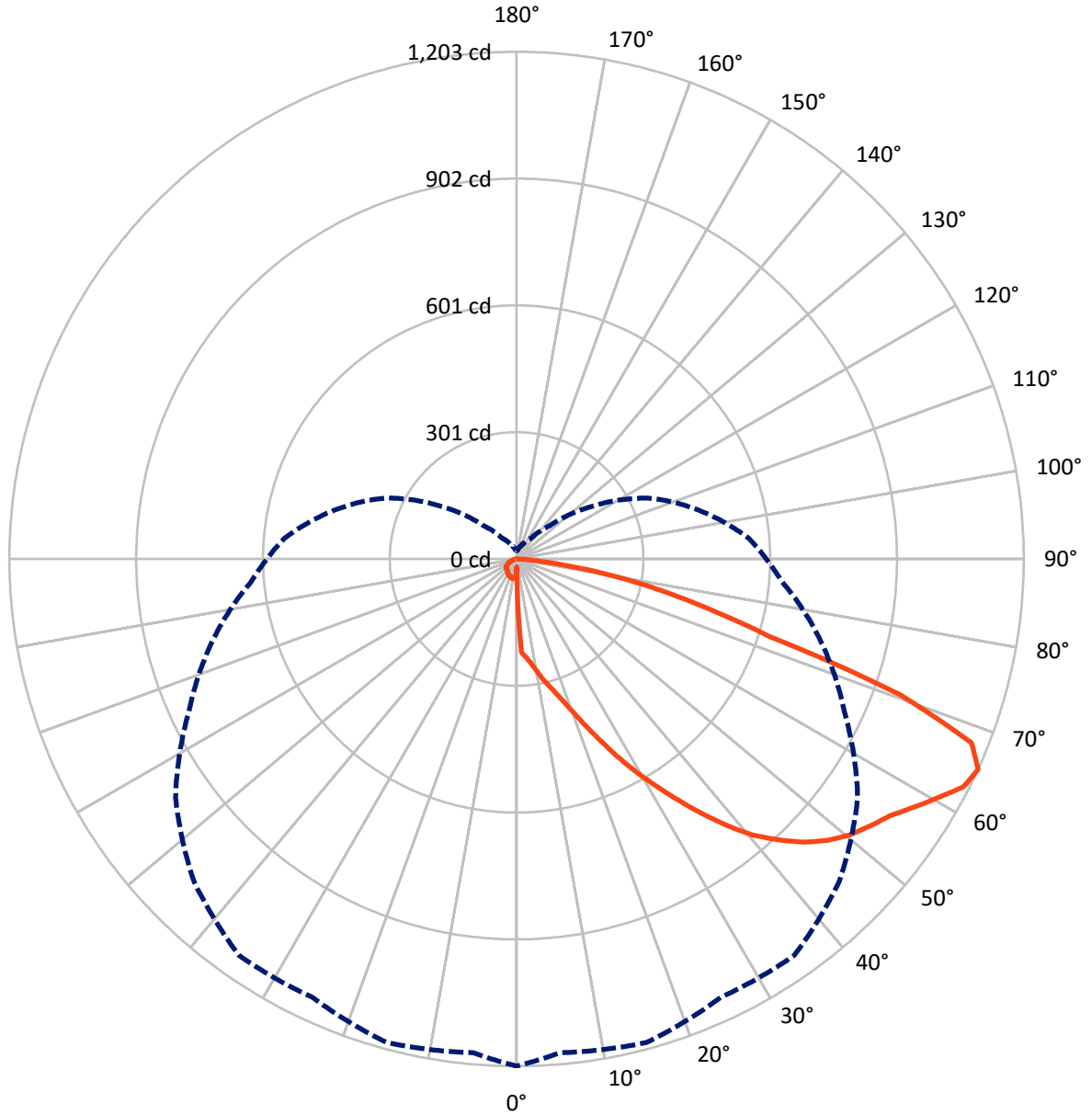
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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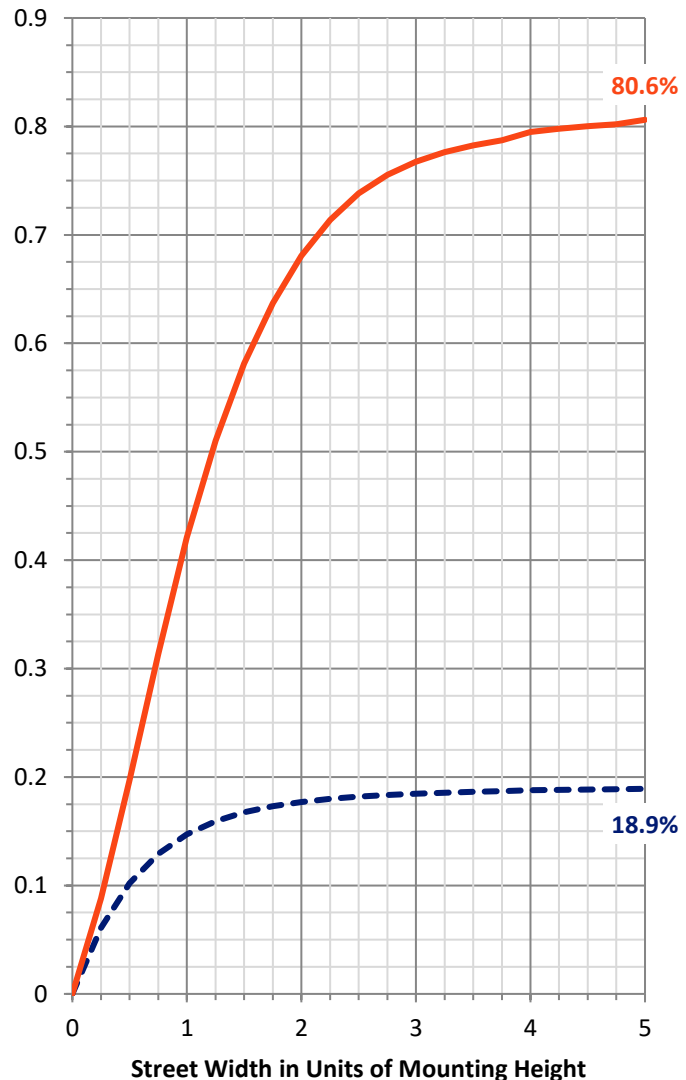
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	416.8	0.0	416.8
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	1776.2	0.0	1776.2
	% Fixture	81.0	0.0	81.0
Total	Lumens	2193.0	0.0	2193.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.2	0.6
10°-20°	53.8	2.5
20°-30°	125.5	5.7
30°-40°	246.5	11.2
40°-50°	386.3	17.6
50°-60°	507.2	23.1
60°-70°	568.5	25.9
70°-80°	259.6	11.8
80°-90°	32.4	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°	2193.0	100.0
0°-180°	2193.0	100.0

Coefficient of Utilization



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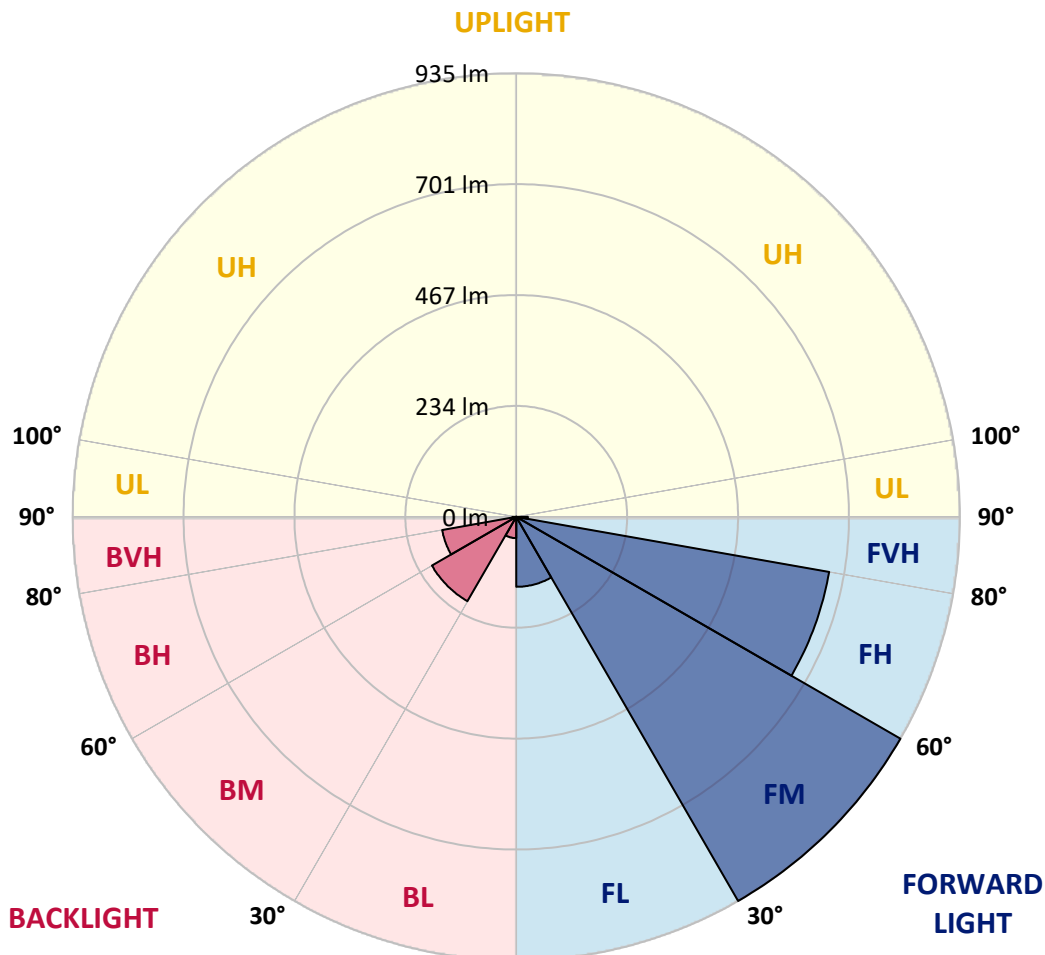
CATALOG NUMBER: BRT6-A4-740-U-T4-XX-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	147.5	6.7			
FM (30°-60°)	934.7	42.6			
FH (60°-80°)	669.6	30.5			G1/1800
FVH (80°-90°)	24.4	1.1			G1/100
BL (0°-30°)	45.0	2.1	B0/110		
BM (30°-60°)	205.3	9.4	B0/220		
BH (60°-80°)	158.6	7.2	B1/500		G1/500
BVH (80°-90°)	8.0	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°	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
2.5°	221.9	217.5	203.2	190.0	176.8	159.3	149.4	136.2	123.0	110.9	109.8
5°	233.9	232.8	232.8	215.3	208.7	191.1	181.2	165.9	154.9	138.4	132.9
7.5°	250.4	250.4	250.4	243.8	228.5	215.3	203.2	182.3	171.3	150.5	147.2
10°	272.4	272.4	271.3	269.1	250.4	240.5	220.8	202.1	187.8	165.9	158.2
12.5°	297.7	296.6	294.4	291.1	271.3	263.6	241.6	224.1	204.3	179.0	170.2
15°	321.8	322.9	320.7	316.3	297.7	287.8	263.6	247.1	221.9	195.5	183.4
17.5°	351.5	352.6	348.2	344.9	327.3	315.2	290.0	271.3	242.7	215.3	201.0
20°	391.0	388.8	385.5	382.2	362.5	347.1	319.6	300.9	269.1	238.3	220.8
22.5°	437.1	434.9	432.7	426.2	402.0	388.8	355.9	333.9	296.6	263.6	243.8
25°	489.9	491.0	482.2	478.9	450.3	437.1	397.6	372.3	330.6	292.2	269.1
27.5°	548.1	549.2	540.4	536.0	508.5	491.0	450.3	417.4	366.8	322.9	298.8
30°	606.3	608.5	604.1	599.7	567.8	549.2	500.8	464.6	407.5	355.9	327.3
32.5°	666.7	671.1	663.4	664.5	633.7	611.8	559.1	516.2	454.7	393.2	360.3
35°	731.5	734.8	729.3	730.4	698.5	677.7	617.3	567.8	499.7	430.6	395.4
37.5°	797.4	797.4	793.0	794.1	759.0	733.7	667.8	620.6	541.5	465.7	428.4
40°	860.0	860.0	855.6	849.0	819.4	784.2	723.8	663.4	582.1	493.2	452.5
42.5°	910.5	909.4	901.7	898.4	867.7	831.4	772.1	701.8	615.1	520.6	475.6
45°	957.8	956.7	943.5	941.3	911.6	875.4	813.9	741.4	642.5	543.7	497.6
47.5°	996.2	996.2	983.0	981.9	950.1	916.0	849.0	774.3	668.9	568.9	514.0
50°	1027.0	1027.0	1012.7	1018.2	976.4	954.5	878.7	804.0	695.3	589.8	534.9
52.5°	1051.1	1055.5	1042.3	1050.0	1005.0	989.6	908.3	828.2	718.3	608.5	553.6
55°	1074.2	1084.1	1069.8	1078.6	1031.3	1022.6	936.9	853.4	738.1	622.8	572.2
57.5°	1110.4	1114.8	1101.6	1102.7	1059.9	1046.7	964.3	873.2	755.7	634.8	584.3
60°	1148.9	1145.6	1137.9	1123.6	1096.2	1072.0	986.3	885.3	769.9	646.9	596.4
62.5°	1189.5	1166.4	1169.7	1143.4	1129.1	1087.4	999.5	887.5	771.0	651.3	603.0
65°	1202.7	1175.2	1187.3	1146.7	1147.8	1081.9	987.4	857.8	745.8	632.6	592.0
67.5°	1163.2	1137.9	1162.1	1096.2	1124.7	1014.9	914.9	762.3	675.5	574.4	548.1
70°	965.4	920.4	963.3	888.6	920.4	776.5	675.5	530.5	488.8	424.0	417.4
72.5°	623.9	650.2	664.5	642.5	596.4	506.3	405.3	340.5	344.9	292.2	304.2
75°	465.7	465.7	464.6	444.8	428.4	337.2	259.2	232.8	246.0	216.4	208.7
77.5°	337.2	329.5	311.9	311.9	300.9	213.1	179.0	166.9	169.1	158.2	147.2
80°	209.8	223.0	201.0	201.0	183.4	129.6	112.0	109.8	102.1	93.4	91.2
82.5°	97.8	106.5	96.7	99.9	82.4	63.7	56.0	52.7	45.0	40.6	41.7
85°	35.1	33.0	29.7	29.7	26.4	20.9	18.7	17.6	14.3	14.3	14.3
87.5°	15.4	14.3	13.2	13.2	12.1	11.0	11.0	8.8	6.6	5.5	4.4
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°	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
2.5°	104.3	90.1	81.3	68.1	61.5	47.2	42.8	28.6	34.0	35.1
5°	121.9	112.0	94.5	86.8	69.2	62.6	48.3	42.8	43.9	46.1
7.5°	139.5	119.7	107.6	92.3	75.8	65.9	53.8	47.2	49.4	47.2
10°	151.6	127.4	115.3	95.6	82.4	67.0	53.8	50.5	51.6	47.2
12.5°	162.6	137.3	120.8	98.9	84.6	68.1	56.0	51.6	51.6	47.2
15°	175.7	146.1	127.4	102.1	86.8	68.1	57.1	50.5	50.5	46.1
17.5°	190.0	158.2	136.2	106.5	87.9	68.1	56.0	49.4	50.5	45.0
20°	208.7	171.3	145.0	112.0	90.1	68.1	56.0	48.3	49.4	43.9
22.5°	226.3	185.6	153.8	117.5	92.3	68.1	54.9	46.1	48.3	43.9
25°	249.3	202.1	165.9	124.1	95.6	68.1	53.8	45.0	46.1	42.8
27.5°	274.6	220.8	180.1	131.8	99.9	68.1	52.7	42.8	43.9	41.7
30°	303.1	242.7	193.3	141.7	104.3	70.3	51.6	41.7	42.8	40.6
32.5°	331.7	263.6	207.6	150.5	110.9	72.5	51.6	40.6	40.6	39.5
35°	362.5	285.6	221.9	160.4	116.4	74.7	51.6	39.5	39.5	37.3
37.5°	388.8	307.5	237.2	170.2	123.0	78.0	52.7	39.5	37.3	36.2
40°	415.2	326.2	250.4	179.0	128.5	80.2	53.8	39.5	36.2	34.0
42.5°	434.9	341.6	261.4	185.6	132.9	83.5	54.9	39.5	36.2	34.0
45°	453.6	355.9	269.1	191.1	136.2	86.8	57.1	39.5	35.1	33.0
47.5°	469.0	367.9	275.7	194.4	137.3	89.0	59.3	40.6	35.1	33.0
50°	484.4	380.0	280.1	196.6	135.1	90.1	60.4	41.7	34.0	33.0
52.5°	499.7	389.9	284.5	198.8	130.7	87.9	59.3	41.7	33.0	31.9
55°	514.0	402.0	287.8	198.8	125.2	84.6	58.2	40.6	30.8	29.7
57.5°	528.3	413.0	293.3	198.8	119.7	79.1	54.9	38.4	29.7	27.5
60°	544.8	427.3	303.1	201.0	112.0	73.6	50.5	36.2	27.5	25.3
62.5°	555.8	441.5	320.7	205.4	107.6	67.0	46.1	33.0	24.2	22.0
65°	553.6	447.0	341.6	216.4	112.0	60.4	41.7	29.7	20.9	19.8
67.5°	518.4	429.5	354.8	220.8	127.4	53.8	36.2	26.4	18.7	16.5
70°	419.6	380.0	329.5	237.2	130.7	48.3	33.0	22.0	16.5	14.3
72.5°	291.1	288.9	254.8	228.5	127.4	47.2	29.7	18.7	14.3	12.1
75°	217.5	194.4	207.6	179.0	118.6	49.4	26.4	15.4	11.0	9.9
77.5°	152.7	138.4	141.7	131.8	96.7	45.0	22.0	12.1	8.8	7.7
80°	94.5	83.5	89.0	78.0	63.7	34.0	16.5	8.8	5.5	5.5
82.5°	43.9	35.1	37.3	33.0	29.7	17.6	8.8	5.5	3.3	3.3
85°	13.2	9.9	9.9	7.7	6.6	6.6	4.4	2.2	2.2	1.1
87.5°	4.4	3.3	3.3	2.2	1.1	1.1	1.1	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)