

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-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-A4-740-U-T5S-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 4000LM, TYPE V SQUARE SYMMETRICAL, BLACK FINISH
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4367 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

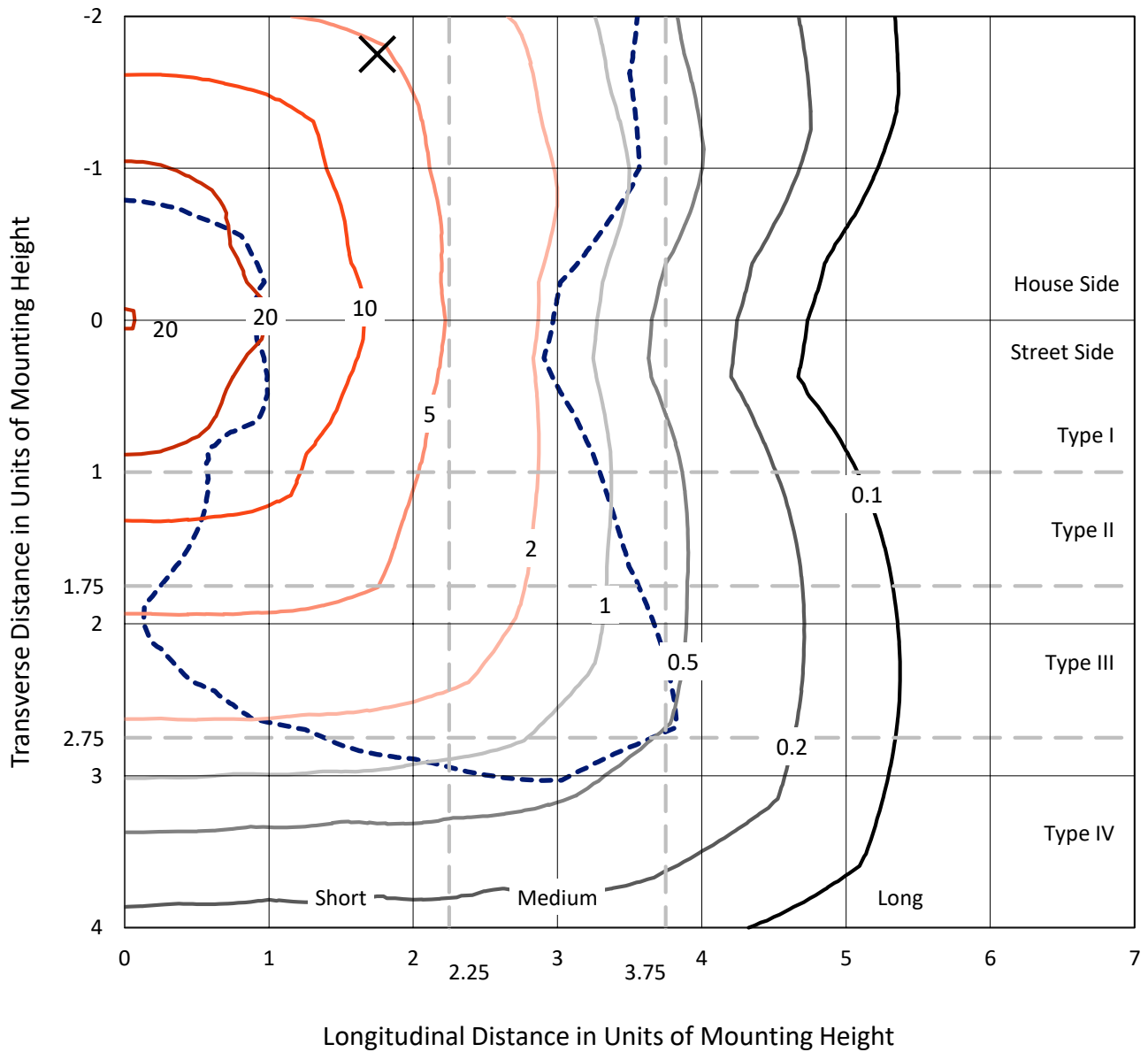
Input Watts (W): 49.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

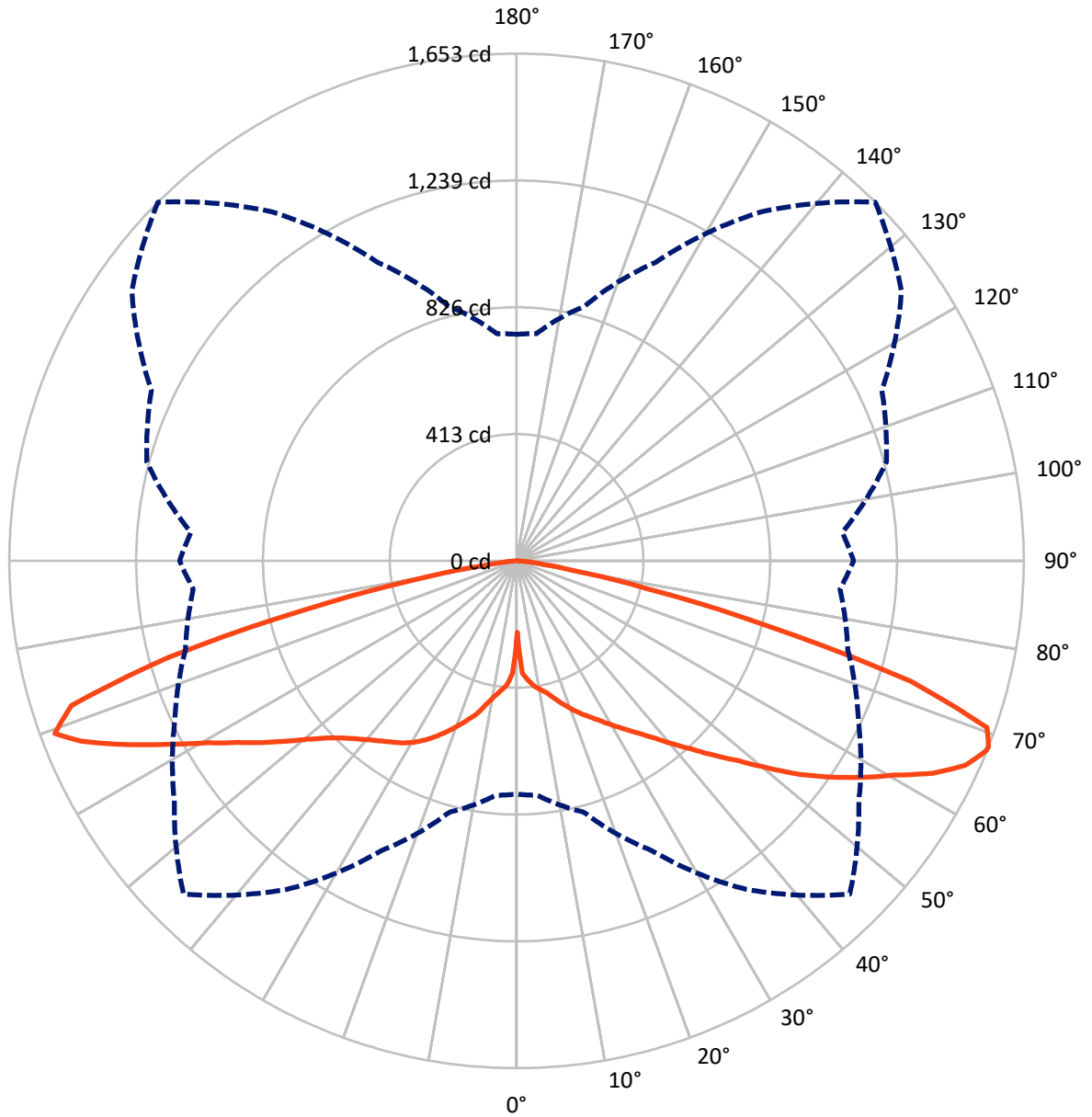
✕ Max cd
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 31 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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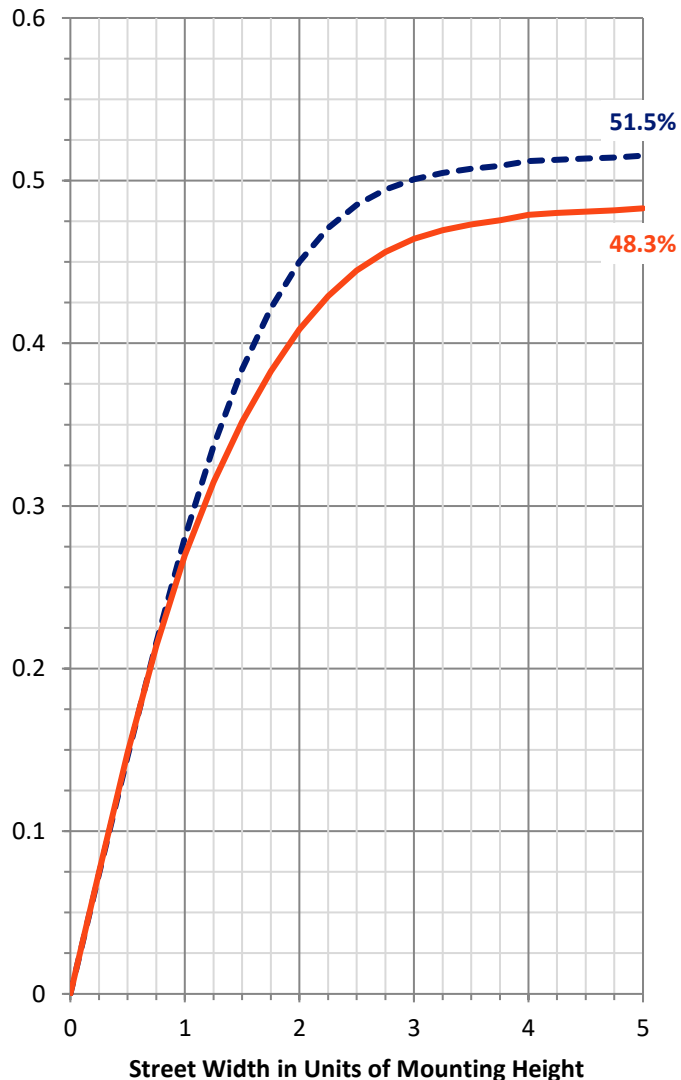
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2253.6	0.0	2253.6
	% Fixture	51.6	0.0	51.6
Street Side	Lumens	2113.4	0.0	2113.4
	% Fixture	48.4	0.0	48.4
Total	Lumens	4367.0	0.0	4367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	0.9
10°-20°	135.1	3.1
20°-30°	269.5	6.2
30°-40°	445.1	10.2
40°-50°	660.8	15.1
50°-60°	927.0	21.2
60°-70°	1156.8	26.5
70°-80°	675.1	15.5
80°-90°	59.8	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°	4367.0	100.0
0°-180°	4367.0	100.0

Coefficient of Utilization



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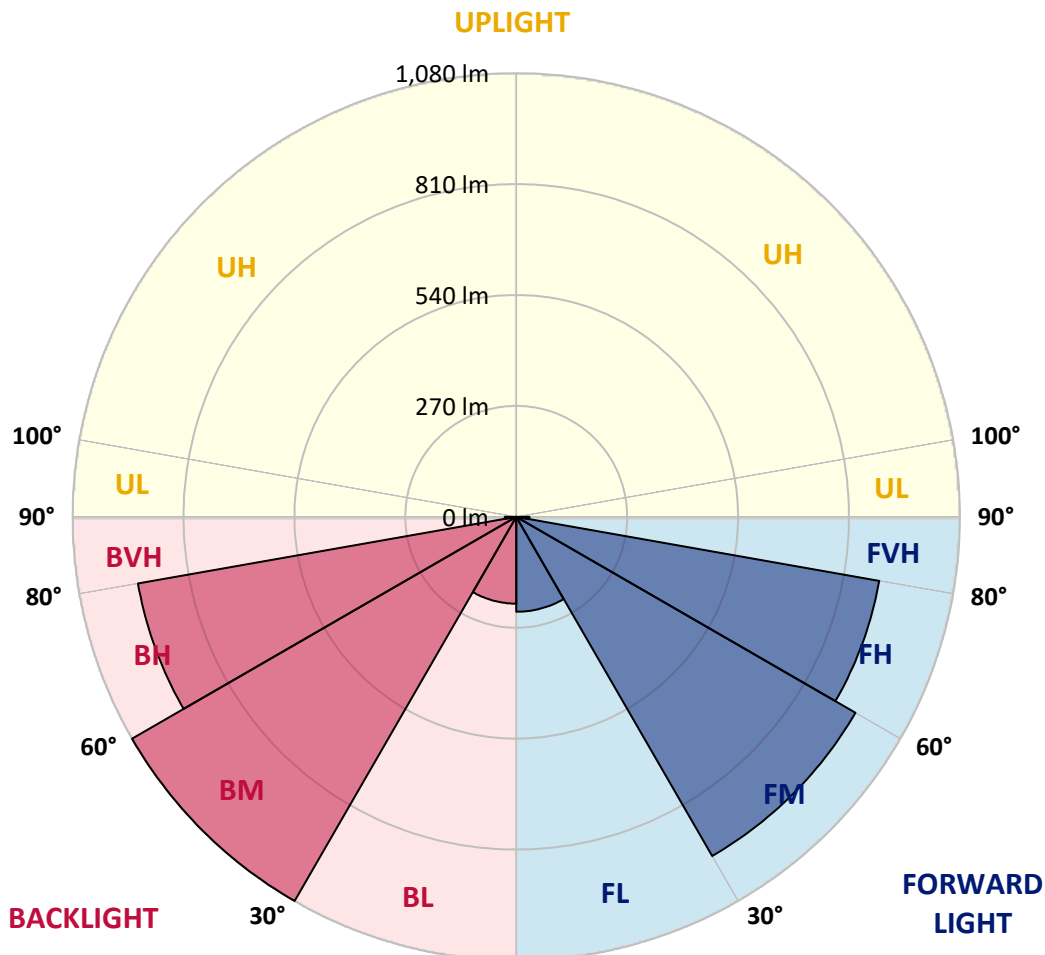
CATALOG NUMBER: BRT6-A4-740-U-T5S-XX-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	231.1	5.3			
FM	(30°-60°)	953.2	21.8			
FH	(60°-80°)	897.0	20.5			G1/1800
FVH	(80°-90°)	32.1	0.7			G1/100
BL	(0°-30°)	211.3	4.8	B1/500		
BM	(30°-60°)	1079.7	24.7	B2/2500		
BH	(60°-80°)	934.9	21.4	B2/1000		G1/1800
BVH	(80°-90°)	27.7	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°	232.8	232.8	232.8	232.8	232.8	232.8	232.8	232.8	232.8	232.8	232.8
2.5°	330.5	332.7	361.2	366.7	360.1	363.4	356.9	359.0	350.3	356.9	351.4
5°	412.9	388.7	389.8	419.4	409.6	405.2	390.9	399.7	377.7	389.8	386.5
7.5°	440.3	419.4	417.2	445.8	443.6	426.0	419.4	413.9	404.1	401.9	400.8
10°	466.7	466.7	451.3	471.0	469.9	449.1	441.4	430.4	421.6	411.8	409.6
12.5°	493.0	491.9	488.6	496.3	500.7	477.6	463.4	445.8	441.4	422.7	420.5
15°	523.8	521.6	519.4	522.7	532.5	513.9	485.3	465.6	457.9	434.8	430.4
17.5°	558.9	557.8	555.6	556.7	564.4	540.2	508.4	488.6	475.4	448.0	442.5
20°	589.6	587.4	588.5	590.7	599.5	568.8	530.3	515.0	495.2	466.7	456.8
22.5°	618.2	618.2	619.3	621.5	633.6	598.4	558.9	543.5	518.3	486.4	474.3
25°	645.6	645.6	650.0	652.2	664.3	627.0	586.3	572.1	544.6	509.5	495.2
27.5°	674.2	672.0	673.1	676.4	691.7	654.4	612.7	598.4	571.0	538.0	523.8
30°	698.3	696.1	697.2	700.5	718.1	678.6	637.9	621.5	598.4	577.6	564.4
32.5°	719.2	717.0	717.0	721.4	740.1	699.4	659.9	644.5	630.3	628.1	614.9
35°	737.9	734.6	737.9	740.1	757.6	715.9	675.3	665.4	661.0	677.5	666.5
37.5°	754.3	751.0	756.5	754.3	771.9	734.6	689.5	686.3	695.0	728.0	719.2
40°	766.4	765.3	776.3	770.8	787.3	755.4	709.3	711.5	732.4	780.7	774.1
42.5°	758.7	759.8	779.6	786.2	802.6	779.6	734.6	743.4	774.1	840.0	830.1
45°	745.5	749.9	773.0	795.0	821.3	808.1	768.6	778.5	821.3	899.3	890.5
47.5°	721.4	725.8	762.0	795.0	841.1	845.5	802.6	821.3	872.9	958.6	949.8
50°	711.5	715.9	754.3	797.2	864.1	893.8	847.7	871.8	921.2	1012.4	1006.9
52.5°	718.1	726.9	762.0	812.5	896.0	953.1	889.4	922.3	970.6	1061.8	1059.6
55°	739.0	743.4	785.1	843.3	943.2	1019.0	942.1	975.0	1019.0	1106.8	1107.9
57.5°	765.3	768.6	815.8	886.1	999.2	1085.9	997.0	1035.4	1058.5	1143.0	1147.4
60°	800.4	803.7	857.5	941.0	1065.1	1167.2	1064.0	1101.3	1088.1	1170.5	1178.2
62.5°	827.9	831.2	891.6	998.1	1148.5	1271.5	1141.9	1156.2	1106.8	1178.2	1192.4
65°	815.8	819.1	894.9	1039.8	1233.1	1390.1	1240.8	1195.7	1120.0	1150.7	1177.1
67.5°	776.3	781.8	858.6	1047.5	1296.7	1510.9	1342.9	1224.3	1120.0	1081.5	1115.6
68°	759.8	766.4	847.7	1040.9	1306.6	1535.0	1361.5	1228.7	1116.7	1057.4	1098.0
70°	674.2	678.6	764.2	976.1	1313.2	1606.4	1434.0	1232.0	1077.1	933.3	980.5
72.5°	428.2	435.9	497.4	707.1	1100.2	1525.1	1420.8	1117.8	917.9	681.9	703.8
75°	224.0	220.7	255.8	376.6	691.7	1181.5	1214.4	872.9	665.4	384.3	393.1
77.5°	117.5	114.2	126.3	177.9	338.2	703.8	886.1	628.1	411.8	194.3	209.7
80°	76.9	74.7	76.9	96.6	138.3	337.1	525.9	385.4	238.3	82.4	83.4
82.5°	56.0	50.5	53.8	60.4	73.6	102.1	185.6	158.1	103.2	34.0	37.3
85°	30.7	27.5	26.4	35.1	34.0	37.3	29.6	24.2	19.8	13.2	13.2
87.5°	17.6	11.0	8.8	11.0	8.8	8.8	7.7	6.6	7.7	5.5	5.5
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°	232.8	232.8	232.8	232.8	232.8	232.8	232.8	232.8	232.8	232.8
2.5°	353.6	362.3	359.0	358.0	366.7	367.8	367.8	353.6	340.4	350.3
5°	378.8	385.4	385.4	390.9	389.8	394.2	389.8	365.6	373.3	364.5
7.5°	403.0	396.4	404.1	401.9	411.8	403.0	398.6	379.9	381.0	392.0
10°	413.9	406.3	415.0	411.8	426.0	419.4	410.7	393.1	392.0	404.1
12.5°	427.1	416.1	429.3	424.9	441.4	438.1	427.1	410.7	410.7	421.6
15°	440.3	428.2	445.8	442.5	465.6	462.3	451.3	433.7	439.2	445.8
17.5°	452.4	442.5	465.6	463.4	490.8	488.6	478.7	462.3	469.9	472.1
20°	467.8	459.0	487.5	488.6	516.1	517.2	505.1	494.1	499.6	502.9
22.5°	487.5	483.1	515.0	511.7	541.3	545.7	535.8	529.2	534.7	539.1
25°	513.9	512.8	541.3	535.8	564.4	577.6	567.7	567.7	575.4	579.7
27.5°	552.3	544.6	568.8	562.2	591.8	612.7	605.0	611.6	617.1	622.6
30°	596.2	579.7	596.2	589.6	622.6	648.9	646.7	655.5	664.3	669.8
32.5°	645.6	617.1	623.7	617.1	654.4	686.3	689.5	704.9	713.7	717.0
35°	699.4	655.5	654.4	647.8	690.6	730.2	739.0	758.7	764.2	768.6
37.5°	752.1	693.9	688.5	684.1	733.5	779.6	786.2	811.4	812.5	813.6
40°	802.6	736.8	731.3	729.1	784.0	826.8	840.0	860.8	860.8	857.5
42.5°	852.1	779.6	780.7	779.6	838.9	881.7	892.7	905.9	900.4	899.3
45°	908.1	820.2	836.7	838.9	903.7	938.8	939.9	949.8	947.6	945.4
47.5°	967.3	861.9	899.3	900.4	972.8	1004.7	992.6	998.1	995.9	991.5
50°	1028.8	908.1	960.8	967.3	1059.6	1069.5	1045.3	1046.4	1043.1	1036.5
52.5°	1081.5	960.8	1019.0	1036.5	1155.1	1149.6	1104.6	1095.8	1085.9	1075.0
55°	1130.9	1016.8	1077.1	1112.3	1242.9	1224.3	1163.9	1139.7	1113.4	1106.8
57.5°	1165.0	1066.2	1137.5	1177.1	1330.8	1302.2	1215.5	1162.8	1114.5	1103.5
60°	1180.4	1117.8	1207.8	1250.6	1416.4	1369.2	1249.5	1156.2	1090.3	1076.0
62.5°	1167.2	1163.9	1262.7	1335.2	1522.9	1419.7	1248.4	1118.9	1029.9	1014.6
65°	1134.2	1206.7	1301.1	1428.5	1606.4	1430.7	1202.3	1029.9	916.8	899.3
67.5°	1077.1	1242.9	1313.2	1515.3	1650.3	1402.2	1104.6	886.1	776.3	762.0
68°	1065.1	1247.3	1313.2	1530.6	1652.5	1387.9	1073.9	859.7	743.4	737.9
70°	980.5	1245.1	1309.9	1586.6	1626.2	1261.6	910.2	677.5	589.6	568.8
72.5°	762.0	1103.5	1186.9	1481.2	1344.0	880.6	552.3	378.8	334.9	316.2
75°	463.4	809.2	881.7	1116.7	841.1	474.3	297.6	207.5	186.7	186.7
77.5°	253.6	505.1	589.6	749.9	431.5	252.5	165.8	123.0	116.4	124.1
80°	103.2	267.9	350.3	360.1	177.9	125.2	104.3	76.9	75.8	79.1
82.5°	39.5	105.4	116.4	92.2	76.9	73.6	65.9	51.6	49.4	58.2
85°	13.2	19.8	24.2	25.3	38.4	40.6	43.9	30.7	29.6	38.4
87.5°	6.6	7.7	6.6	7.7	8.8	8.8	8.8	8.8	9.9	18.7
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
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Peachtree City, GA 30269

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)