

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-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-A4-727-U-T5S-XX-BK  
Description: BOLLARD 6INCH ROUND BASE, 4000LM, TYPE V SQUARE SYMMETRICAL, BLACK FINISH  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3652 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G1

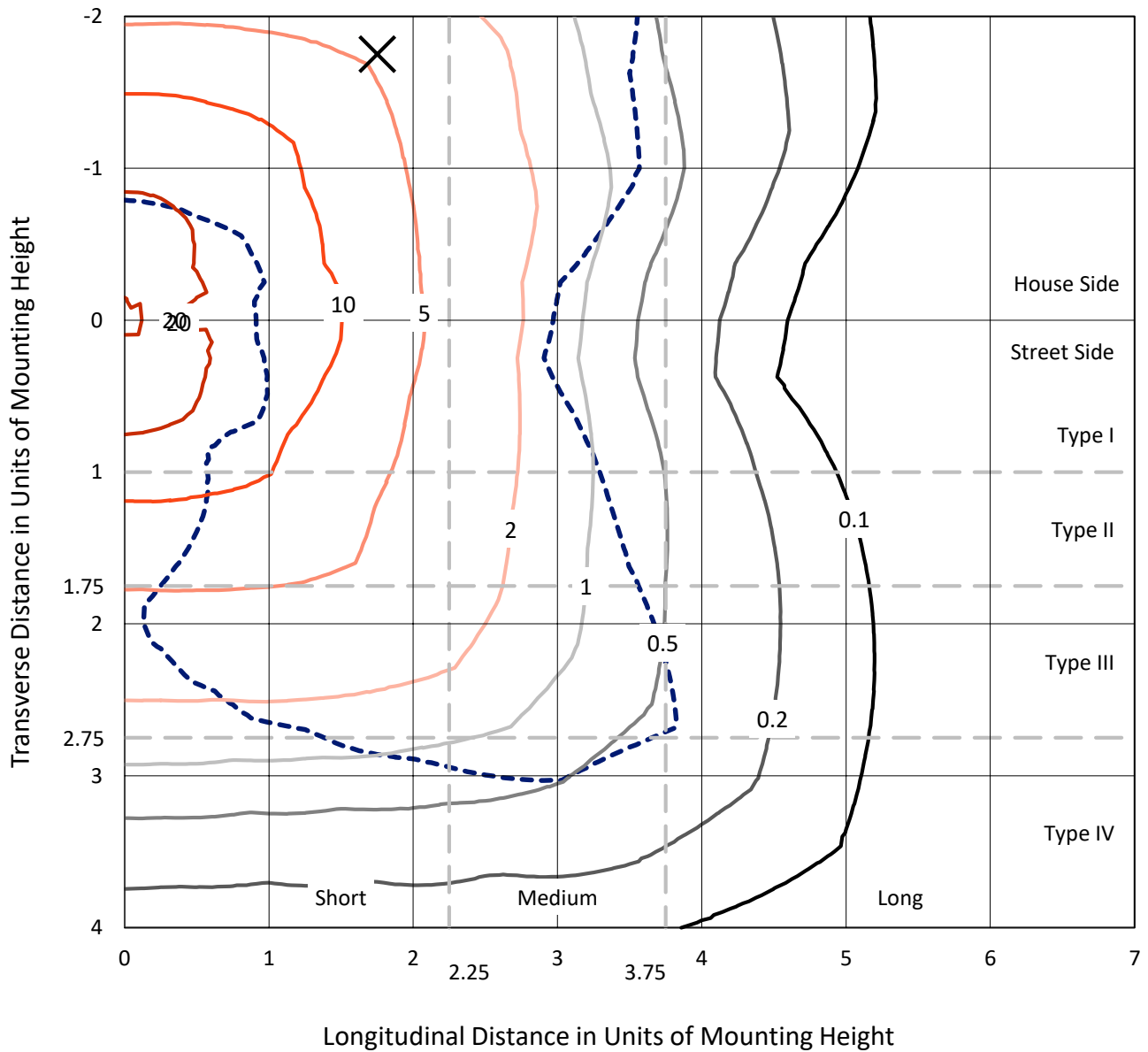
Input Watts (W): 49.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

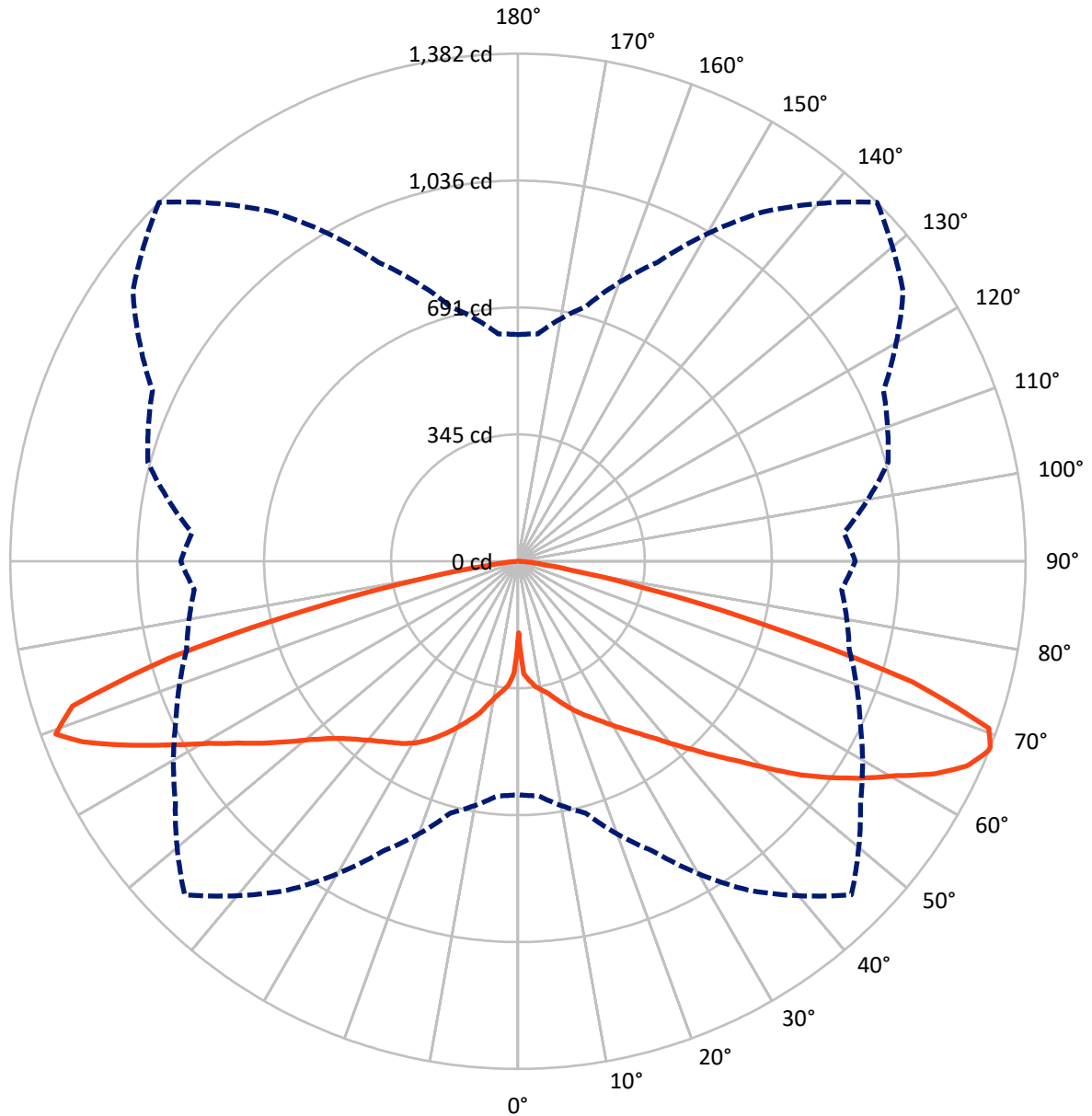
✕ Max cd  
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 25.9 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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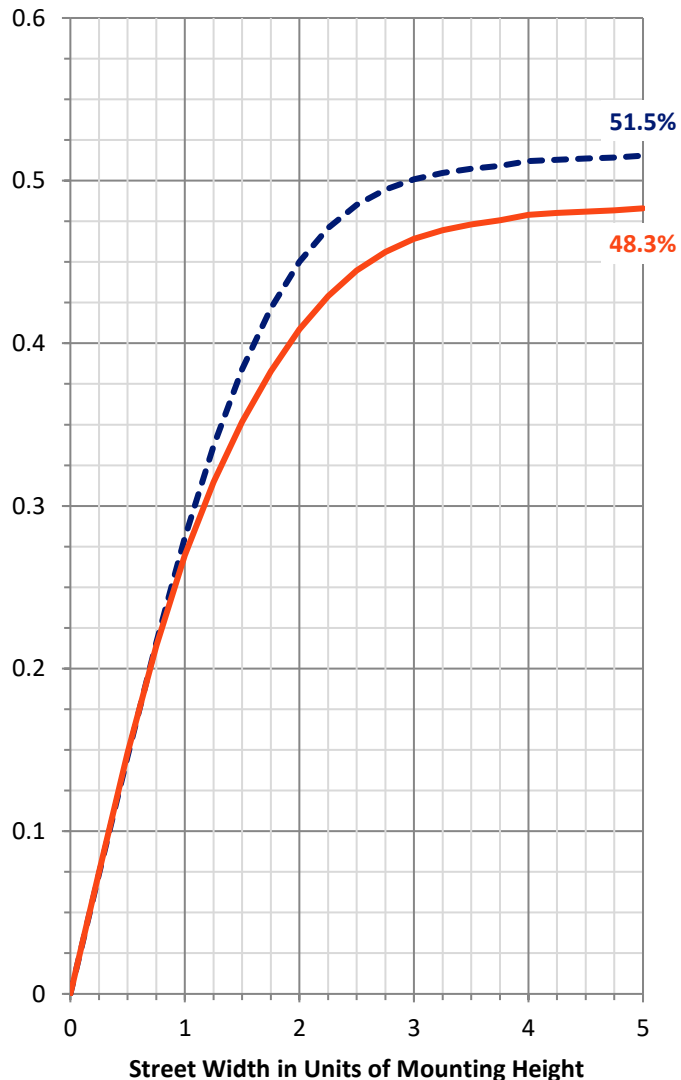
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1884.7	0.0	1884.7
	% Fixture	51.6	0.0	51.6
<b>Street Side</b>	Lumens	1767.3	0.0	1767.3
	% Fixture	48.4	0.0	48.4
<b>Total</b>	Lumens	3652.0	0.0	3652.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.7	0.9
10°-20°	112.9	3.1
20°-30°	225.4	6.2
30°-40°	372.3	10.2
40°-50°	552.6	15.1
50°-60°	775.2	21.2
60°-70°	967.4	26.5
70°-80°	564.6	15.5
80°-90°	50.0	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°	3652.0	100.0
0°-180°	3652.0	100.0

**Coefficient of Utilization**



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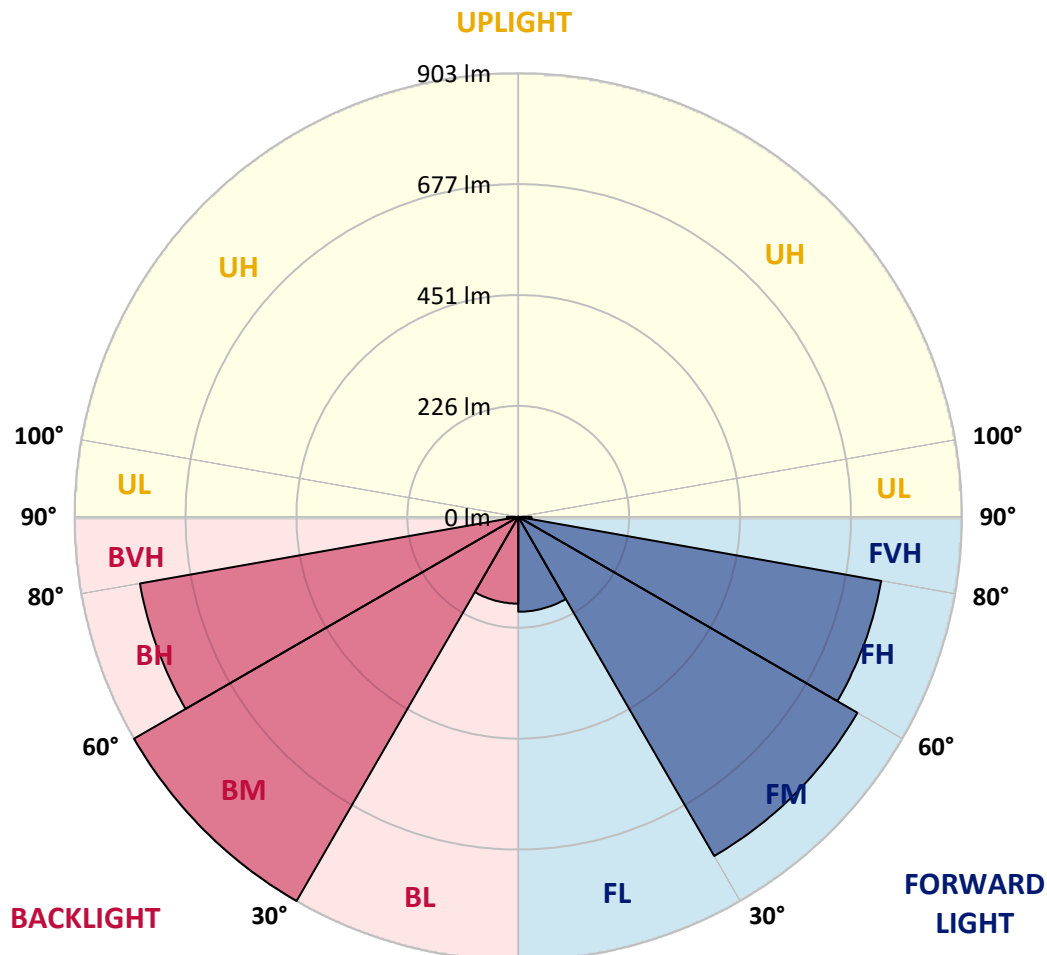
CATALOG NUMBER: BRT6-A4-727-U-T5S-XX-BK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.2	5.3			
FM (30°-60°)	797.2	21.8			
FH (60°-80°)	750.1	20.5			G1/1800
FVH (80°-90°)	26.8	0.7			G1/100
BL (0°-30°)	176.7	4.8	B1/500		
BM (30°-60°)	902.9	24.7	B1/1000		
BH (60°-80°)	781.8	21.4	B2/1000		G1/1800
BVH (80°-90°)	23.2	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°	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7
2.5°	276.4	278.2	302.1	306.7	301.2	303.9	298.4	300.3	292.9	298.4	293.8
5°	345.3	325.1	326.0	350.8	342.5	338.8	326.9	334.2	315.9	326.0	323.2
7.5°	368.2	350.8	348.9	372.8	371.0	356.3	350.8	346.2	337.9	336.1	335.2
10°	390.2	390.2	377.4	393.9	393.0	375.6	369.1	359.9	352.6	344.3	342.5
12.5°	412.3	411.4	408.6	415.0	418.7	399.4	387.5	372.8	369.1	353.5	351.7
15°	438.0	436.2	434.3	437.1	445.3	429.7	405.9	389.3	382.9	363.6	359.9
17.5°	467.4	466.5	464.6	465.5	472.0	451.8	425.1	408.6	397.6	374.6	370.0
20°	493.1	491.3	492.2	494.0	501.4	475.6	443.5	430.7	414.1	390.2	382.0
22.5°	517.0	517.0	517.9	519.7	529.8	500.4	467.4	454.5	433.4	406.8	396.7
25°	539.9	539.9	543.6	545.4	555.5	524.3	490.3	478.4	455.4	426.1	414.1
27.5°	563.8	562.0	562.9	565.6	578.5	547.3	512.4	500.4	477.5	449.9	438.0
30°	584.0	582.2	583.1	585.8	600.5	567.5	533.5	519.7	500.4	483.0	472.0
32.5°	601.4	599.6	599.6	603.3	618.9	584.9	551.9	539.0	527.1	525.2	514.2
35°	617.1	614.3	617.1	618.9	633.6	598.7	564.7	556.5	552.8	566.6	557.4
37.5°	630.8	628.1	632.7	630.8	645.5	614.3	576.7	573.9	581.2	608.8	601.4
40°	640.9	640.0	649.2	644.6	658.4	631.7	593.2	595.0	612.5	652.9	647.4
42.5°	634.5	635.4	651.9	657.5	671.2	651.9	614.3	621.6	647.4	702.4	694.2
45°	623.5	627.2	646.4	664.8	686.8	675.8	642.8	651.0	686.8	752.0	744.7
47.5°	603.3	607.0	637.3	664.8	703.4	707.0	671.2	686.8	730.0	801.6	794.3
50°	595.0	598.7	630.8	666.6	722.7	747.4	708.9	729.1	770.4	846.6	842.0
52.5°	600.5	607.9	637.3	679.5	749.3	797.0	743.8	771.3	811.7	887.9	886.1
55°	618.0	621.6	656.5	705.2	788.8	852.1	787.8	815.4	852.1	925.6	926.5
57.5°	640.0	642.8	682.2	741.0	835.6	908.1	833.8	865.9	885.2	955.9	959.6
60°	669.4	672.1	717.1	786.9	890.7	976.1	889.8	921.0	910.0	978.8	985.3
62.5°	692.3	695.1	745.6	834.7	960.5	1063.3	955.0	966.9	925.6	985.3	997.2
65°	682.2	685.0	748.4	869.6	1031.2	1162.5	1037.6	1000.0	936.6	962.3	984.3
67.5°	649.2	653.8	718.1	876.0	1084.4	1263.5	1123.0	1023.8	936.6	904.5	932.9
68°	635.4	640.9	708.9	870.5	1092.7	1283.7	1138.6	1027.5	933.8	884.3	918.2
70°	563.8	567.5	639.1	816.3	1098.2	1343.4	1199.2	1030.3	900.8	780.5	820.0
72.5°	358.1	364.5	416.0	591.3	920.1	1275.4	1188.2	934.8	767.6	570.2	588.6
75°	187.3	184.6	213.9	315.0	578.5	988.0	1015.6	730.0	556.5	321.4	328.7
77.5°	98.3	95.5	105.6	148.8	282.8	588.6	741.0	525.2	344.3	162.5	175.4
80°	64.3	62.4	64.3	80.8	115.7	281.9	439.8	322.3	199.3	68.9	69.8
82.5°	46.8	42.2	45.0	50.5	61.5	85.4	155.2	132.2	86.3	28.5	31.2
85°	25.7	23.0	22.0	29.4	28.5	31.2	24.8	20.2	16.5	11.0	11.0
87.5°	14.7	9.2	7.3	9.2	7.3	7.3	6.4	5.5	6.4	4.6	4.6
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°	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7	194.7
2.5°	295.7	303.0	300.3	299.3	306.7	307.6	307.6	295.7	284.7	292.9
5°	316.8	322.3	322.3	326.9	326.0	329.6	326.0	305.8	312.2	304.9
7.5°	337.0	331.5	337.9	336.1	344.3	337.0	333.3	317.7	318.6	327.8
10°	346.2	339.7	347.1	344.3	356.3	350.8	343.4	328.7	327.8	337.9
12.5°	357.2	348.0	359.0	355.4	369.1	366.4	357.2	343.4	343.4	352.6
15°	368.2	358.1	372.8	370.0	389.3	386.6	377.4	362.7	367.3	372.8
17.5°	378.3	370.0	389.3	387.5	410.5	408.6	400.4	386.6	393.0	394.8
20°	391.2	383.8	407.7	408.6	431.6	432.5	422.4	413.2	417.8	420.6
22.5°	407.7	404.0	430.7	427.9	452.7	456.4	448.1	442.6	447.2	450.9
25°	429.7	428.8	452.7	448.1	472.0	483.0	474.7	474.7	481.2	484.8
27.5°	461.9	455.4	475.6	470.1	494.9	512.4	505.9	511.5	516.0	520.6
30°	498.6	484.8	498.6	493.1	520.6	542.7	540.8	548.2	555.5	560.1
32.5°	539.9	516.0	521.6	516.0	547.3	573.9	576.7	589.5	596.9	599.6
35°	584.9	548.2	547.3	541.8	577.6	610.6	618.0	634.5	639.1	642.8
37.5°	629.0	580.3	575.7	572.1	613.4	651.9	657.5	678.6	679.5	680.4
40°	671.2	616.1	611.5	609.7	655.6	691.4	702.4	719.9	719.9	717.1
42.5°	712.6	651.9	652.9	651.9	701.5	737.3	746.5	757.5	753.0	752.0
45°	759.4	685.9	699.7	701.5	755.7	785.1	786.0	794.3	792.4	790.6
47.5°	809.0	720.8	752.0	753.0	813.6	840.2	830.1	834.7	832.8	829.2
50°	860.4	759.4	803.5	809.0	886.1	894.4	874.2	875.1	872.3	866.8
52.5°	904.5	803.5	852.1	866.8	966.0	961.4	923.7	916.4	908.1	899.0
55°	945.8	850.3	900.8	930.2	1039.4	1023.8	973.3	953.1	931.1	925.6
57.5°	974.2	891.6	951.3	984.3	1112.9	1089.0	1016.5	972.4	932.0	922.8
60°	987.1	934.8	1010.1	1045.9	1184.5	1145.0	1045.0	966.9	911.8	899.9
62.5°	976.1	973.3	1056.0	1116.6	1273.6	1187.3	1044.0	935.7	861.3	848.4
65°	948.5	1009.1	1088.1	1194.6	1343.4	1196.5	1005.5	861.3	766.7	752.0
67.5°	900.8	1039.4	1098.2	1267.2	1380.1	1172.6	923.7	741.0	649.2	637.3
68°	890.7	1043.1	1098.2	1280.0	1381.9	1160.6	898.0	719.0	621.6	617.1
70°	820.0	1041.3	1095.5	1326.8	1359.9	1055.1	761.2	566.6	493.1	475.6
72.5°	637.3	922.8	992.6	1238.7	1123.9	736.4	461.9	316.8	280.1	264.5
75°	387.5	676.7	737.3	933.8	703.4	396.7	248.8	173.5	156.1	156.1
77.5°	212.1	422.4	493.1	627.2	360.9	211.2	138.7	102.8	97.3	103.8
80°	86.3	224.0	292.9	301.2	148.8	104.7	87.2	64.3	63.4	66.1
82.5°	33.1	88.2	97.3	77.1	64.3	61.5	55.1	43.2	41.3	48.7
85°	11.0	16.5	20.2	21.1	32.1	34.0	36.7	25.7	24.8	32.1
87.5°	5.5	6.4	5.5	6.4	7.3	7.3	7.3	7.3	8.3	15.6
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  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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

Scaled Data Report





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



--- HS — SS



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0°

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

Scaled Data Report





(END OF REPORT)