

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: EPHESUS

Report Number: P575093

Luminaire Tested: **EPH-VN-07-735-U-RW**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575093
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-735-U-RW
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

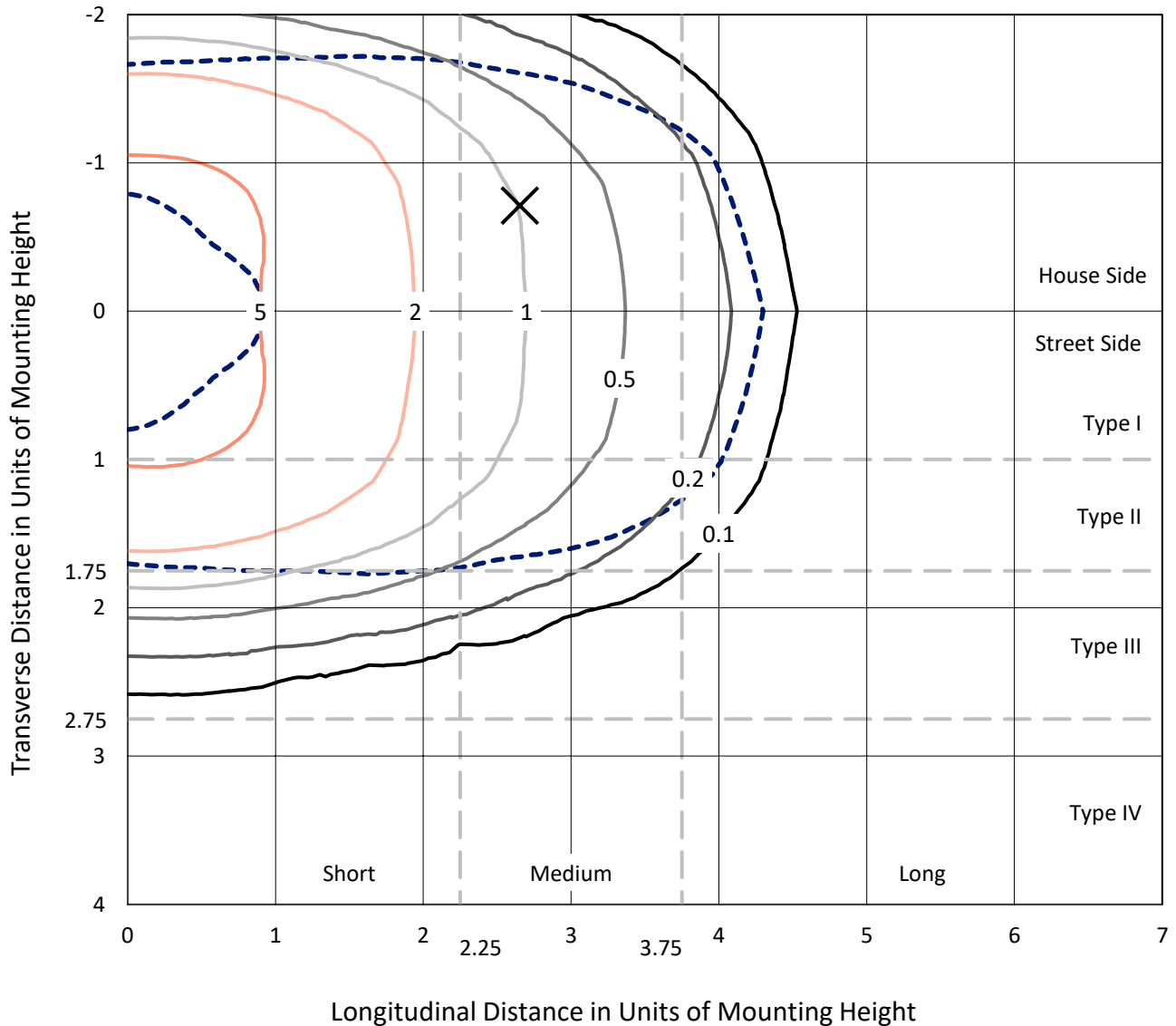
Lumens per Lamp: N/A
Luminaire Lumens: 57349.9 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 532.7
Input Voltage (V): 120
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

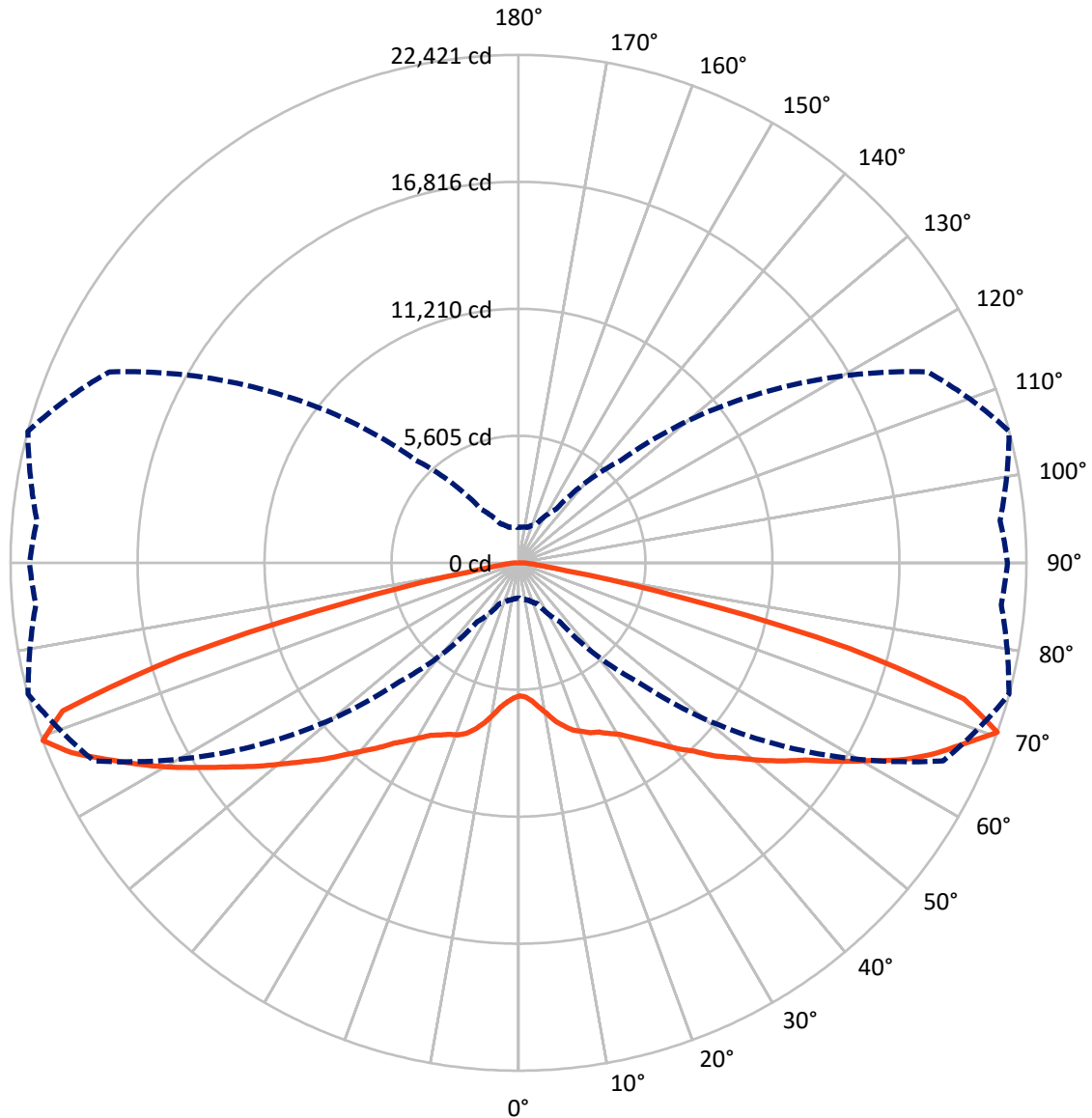
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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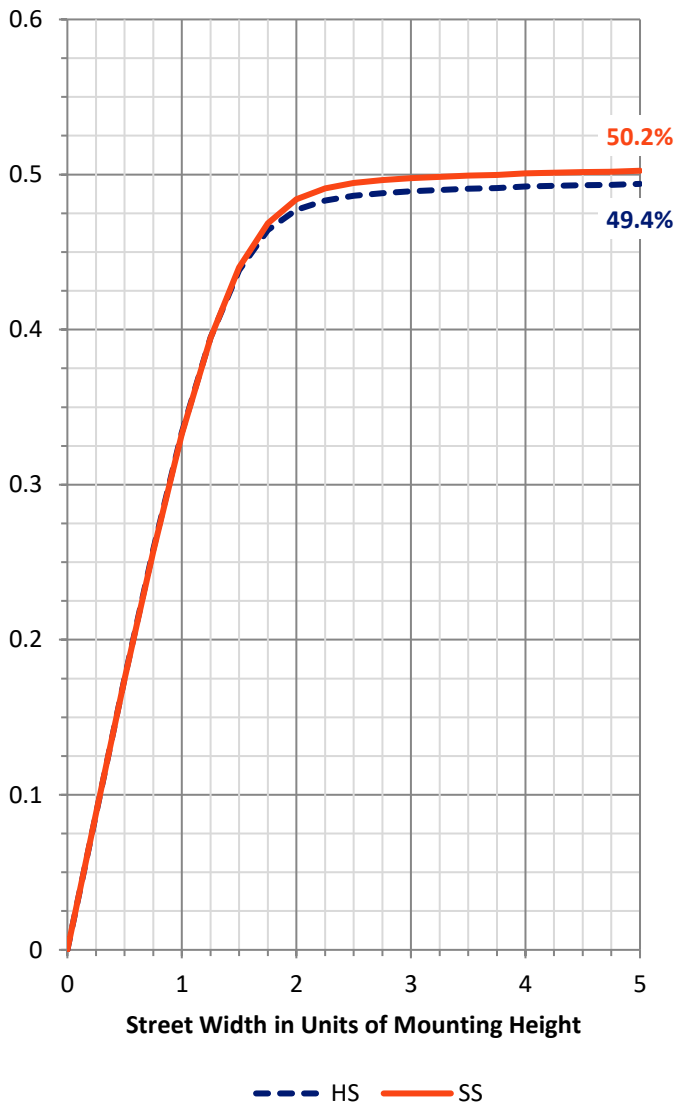
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28471.0	0.0	28471.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	28879.0	0.0	28879.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	57349.9	0.0	57349.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.5	1.0
10°-20°	1990.2	3.5
20°-30°	3853.8	6.7
30°-40°	6518.3	11.4
40°-50°	10398.7	18.1
50°-60°	14233.5	24.8
60°-70°	13416.0	23.4
70°-80°	5910.2	10.3
80°-90°	444.7	0.8
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°	57349.9	100.0
0°-180°	57349.9	100.0

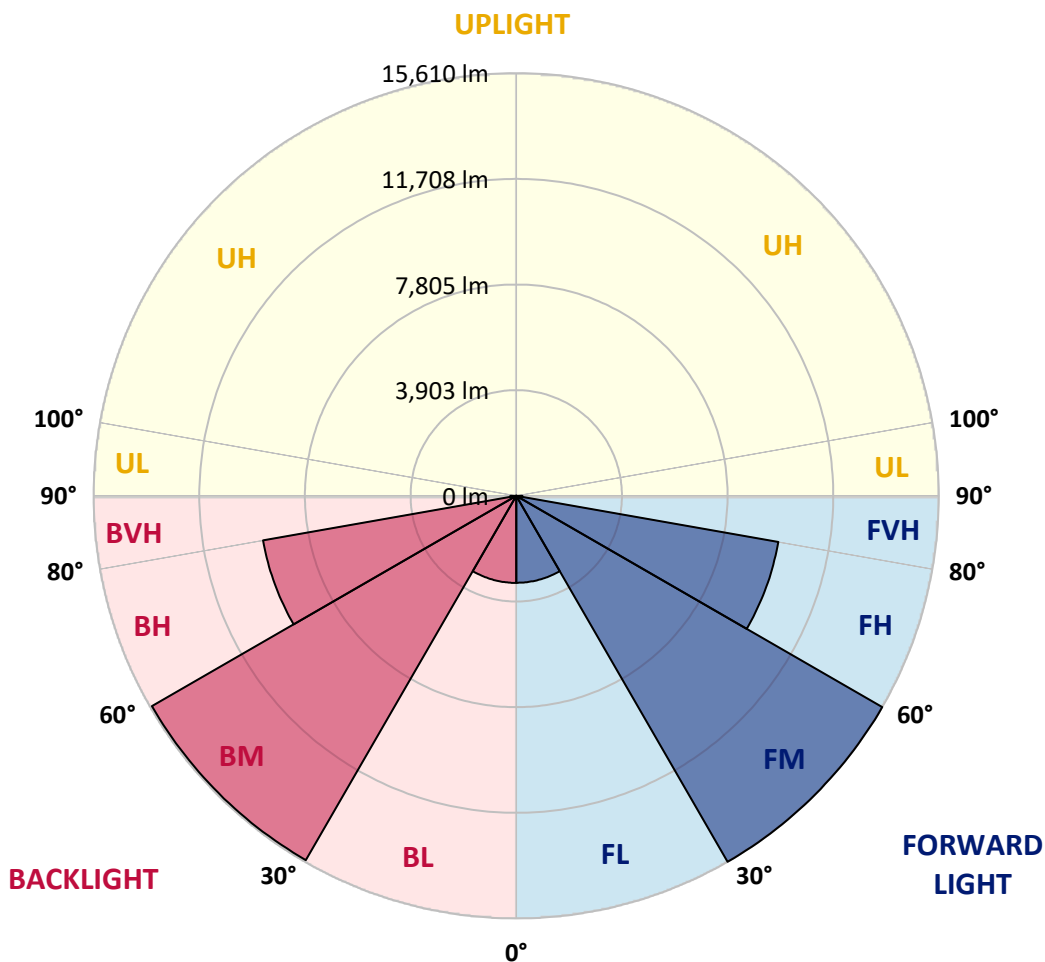


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3212.5	5.6			
FM (30°-60°)	15610.1	27.2			
FH (60°-80°)	9829.2	17.1			G4/12000
FVH (80°-90°)	227.1	0.4			G3/500
BL (0°-30°)	3216.0	5.6	B4/5000		
BM (30°-60°)	15540.4	27.1	B5		
BH (60°-80°)	9497.0	16.6	B5		G5
BVH (80°-90°)	217.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5872.6	5872.6	5872.6	5872.6	5872.6	5872.6	5872.6	5872.6	5872.6	5872.6
2.5°	5835.5	5835.5	5829.3	5860.2	5891.1	5903.5	5928.2	5934.4	5971.5	5940.6
5°	5816.9	5810.8	5860.2	5934.4	5934.4	6014.8	6064.2	6132.2	6150.7	6187.8
7.5°	5946.8	5934.4	5909.7	5990.0	6058.0	6181.7	6249.7	6367.1	6410.4	6459.8
10°	6027.1	6027.1	6002.4	6144.6	6206.4	6373.3	6521.6	6639.1	6806.0	6861.6
12.5°	6039.5	6058.0	6132.2	6317.7	6490.7	6707.1	6818.4	7040.9	7207.8	7312.9
15°	6224.9	6187.8	6268.2	6521.6	6775.1	6966.7	7164.5	7325.3	7566.3	7702.3
17.5°	6391.8	6354.7	6503.1	6806.0	7065.6	7362.4	7535.4	7708.5	7881.6	8005.2
20°	6657.6	6688.6	6818.4	7146.0	7486.0	7745.6	7943.4	7974.3	8060.9	8240.1
22.5°	6985.3	6960.5	7232.5	7591.1	7962.0	8178.3	8289.6	8209.2	8166.0	8357.6
25°	7312.9	7387.1	7634.3	7968.2	8413.2	8703.8	8734.7	8512.1	8351.4	8419.4
27.5°	7813.6	7826.0	8085.6	8481.2	8932.5	9185.9	9167.4	8852.1	8543.1	8549.2
30°	8456.5	8394.7	8679.0	9037.6	9482.7	9711.4	9742.3	9291.0	8876.9	8753.2
32.5°	9074.7	9148.9	9396.1	9804.1	10131.7	10261.6	10193.6	9791.7	9253.9	9087.0
35°	9865.9	9853.6	10193.6	10539.7	10787.0	10811.7	10756.1	10168.8	9661.9	9445.6
37.5°	10712.8	10824.1	11046.6	11331.0	11590.6	11603.0	11300.1	10830.3	10205.9	9847.4
40°	11658.6	11782.2	11943.0	12357.1	12548.8	12351.0	12041.9	11405.2	10756.1	10440.8
42.5°	12493.1	12548.8	12876.4	13364.7	13457.5	13370.9	12913.5	12140.8	11386.6	11040.4
45°	13259.7	13333.8	13760.4	14199.3	14415.6	14267.3	13735.6	13000.0	12122.2	11825.5
47.5°	13964.4	14112.7	14526.9	14978.2	15312.0	15324.3	14669.1	13778.9	12851.7	12462.2
50°	14440.4	14656.7	15064.7	15577.8	16066.1	16257.8	15602.5	14644.3	13649.1	13234.9
52.5°	14700.0	14922.5	15330.5	16127.9	16671.9	16968.7	16659.6	15454.1	14582.5	14149.8
55°	14384.7	14533.1	15200.7	16319.6	17160.3	17648.6	17444.6	16573.0	15509.8	15157.4
57.5°	13043.3	13352.4	14174.5	15571.6	17147.9	18347.2	18328.6	17630.1	16579.2	16245.4
60°	10737.5	10997.2	12011.0	13964.4	16455.6	18631.5	19286.8	18656.2	17778.4	17389.0
62.5°	7578.7	7906.3	9080.9	11213.5	14415.6	18235.9	20387.1	19948.2	18953.0	18668.6
65°	4240.6	4438.4	5526.4	7455.1	10984.8	16059.9	20584.9	21289.6	20146.0	19713.3
67.5°	2268.7	2342.8	2849.7	3913.0	6719.5	12381.9	18588.2	22062.3	21438.0	20690.0
70°	1557.8	1582.5	1712.3	2002.9	3177.4	7405.6	14020.0	20683.8	22408.5	21388.5
72.5°	1316.7	1304.3	1335.2	1366.1	1662.9	3313.4	8227.8	15917.8	21153.6	20770.4
75°	1143.6	1137.4	1149.8	1118.9	1156.0	1458.9	3641.0	9921.6	15485.1	17283.9
77.5°	945.8	952.0	958.2	927.2	914.9	964.3	1465.1	4358.1	7622.0	8413.2
80°	717.1	729.4	778.9	748.0	698.5	704.7	865.4	1458.9	2188.3	1984.3
82.5°	488.4	494.5	599.6	562.5	525.4	476.0	556.3	754.2	853.1	649.1
85°	346.2	340.0	389.4	358.5	333.8	241.1	333.8	426.5	513.1	321.4
87.5°	80.4	80.4	160.7	129.8	123.6	98.9	129.8	166.9	222.5	142.2
90°	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
5872.6	0°	5872.6	5872.6	5872.6	5872.6	5872.6	5872.6	5872.6	5872.6	5872.6	5872.6
6002.4	2.5°	5983.8	5928.2	5928.2	5915.8	5866.4	5854.0	5810.8	5823.1	5792.2	5761.3
6200.2	5°	6194.0	6119.8	6119.8	6014.8	5915.8	5903.5	5854.0	5854.0	5804.6	5816.9
6515.5	7.5°	6484.6	6416.6	6305.3	6212.6	6076.6	6020.9	5928.2	5915.8	5903.5	5878.8
6867.8	10°	6830.7	6744.2	6632.9	6441.3	6330.0	6224.9	6132.2	6002.4	5971.5	5977.7
7350.0	12.5°	7300.5	7164.5	6923.5	6756.6	6614.4	6478.4	6342.4	6150.7	6107.5	6126.0
7788.9	15°	7634.3	7461.3	7220.2	7158.4	6966.7	6799.8	6577.3	6360.9	6286.7	6268.2
8011.4	17.5°	7906.3	7764.2	7622.0	7529.3	7374.7	7170.7	6861.6	6614.4	6447.5	6428.9
8209.2	20°	8128.9	7943.4	7912.5	7968.2	7776.5	7640.5	7263.4	6960.5	6738.0	6645.3
8400.9	22.5°	8264.9	8147.4	8234.0	8283.4	8271.1	8042.3	7652.9	7300.5	7022.4	6935.8
8400.9	25°	8413.2	8277.2	8586.3	8753.2	8796.5	8419.4	8116.5	7652.9	7380.9	7325.3
8561.6	27.5°	8487.4	8536.9	8895.4	9247.8	9216.9	8926.3	8518.3	8104.2	7887.8	7788.9
8784.1	30°	8703.8	8784.1	9328.1	9723.7	9729.9	9445.6	9136.5	8666.7	8425.6	8382.3
9105.6	32.5°	9093.2	9192.1	9773.2	10193.6	10267.7	10051.4	9742.3	9451.8	9204.5	9105.6
9359.0	35°	9389.9	9643.4	10298.6	10681.9	10879.7	10749.9	10576.8	10273.9	10014.3	9927.7
9952.5	37.5°	9816.5	10168.8	10799.4	11318.6	11541.2	11528.8	11399.0	11071.3	10855.0	10780.8
10490.3	40°	10428.5	10780.8	11355.7	12041.9	12456.0	12437.5	12363.3	12109.9	11788.4	11751.3
11065.2	42.5°	11077.5	11368.1	12116.0	12901.1	13494.6	13432.7	13234.9	12938.2	12715.7	12666.2
11708.1	45°	11708.1	12159.3	12851.7	13859.3	14304.4	14458.9	14224.0	13717.1	13463.7	13432.7
12456.0	47.5°	12499.3	12857.8	13723.3	14625.8	15287.2	15312.0	14910.2	14440.4	13976.7	14075.6
13191.7	50°	13204.0	13680.0	14557.8	15546.9	16338.1	16053.8	15540.7	14953.4	14619.6	14489.8
14081.8	52.5°	13958.2	14539.3	15559.2	16566.8	17005.7	16721.4	15886.9	15231.6	14724.7	14669.1
15219.2	55°	15058.5	15361.4	16696.7	17469.4	17611.5	17011.9	15781.8	14854.5	14199.3	14038.5
16257.8	57.5°	16177.4	16529.8	17698.1	18365.7	18217.3	16851.2	15101.8	13667.6	12808.4	12579.7
17376.6	60°	17308.6	17741.4	18724.2	19336.2	18569.7	15744.7	13179.3	11331.0	10329.5	10125.6
18773.7	62.5°	18569.7	19132.2	20010.0	20226.4	17525.0	13556.4	10459.4	8178.3	7164.5	6824.6
19731.9	65°	19688.6	20263.5	21345.3	20040.9	15305.8	10113.2	6762.7	4673.3	3925.4	3653.4
20572.6	67.5°	20609.6	21258.7	21790.3	17735.2	11207.3	5922.0	3523.5	2460.3	2182.1	2083.2
21586.3	70°	21339.1	22420.9	19935.8	13037.1	6404.2	2886.8	1904.0	1619.6	1582.5	1557.8
20696.2	72.5°	20702.4	20560.2	14885.4	7523.1	2806.5	1588.7	1378.5	1335.2	1329.1	1335.2
17562.1	75°	16931.6	15101.8	8901.6	3270.1	1409.4	1149.8	1143.6	1125.1	1156.0	1156.0
9074.7	77.5°	8215.4	7183.1	3721.4	1403.2	927.2	902.5	933.4	933.4	933.4	933.4
2046.1	80°	1904.0	2107.9	1329.1	853.1	673.8	673.8	741.8	748.0	717.1	704.7
568.7	82.5°	649.1	865.4	729.4	537.8	445.1	500.7	562.5	574.9	476.0	482.2
290.5	85°	321.4	506.9	395.6	309.1	228.7	309.1	364.7	383.3	327.6	315.3
129.8	87.5°	148.4	222.5	148.4	105.1	80.4	111.3	105.1	86.5	49.5	49.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

