

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: P575092

Luminaire Tested: **EPH-VN-06-735-U-RW**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575092  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-06-735-U-RW  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

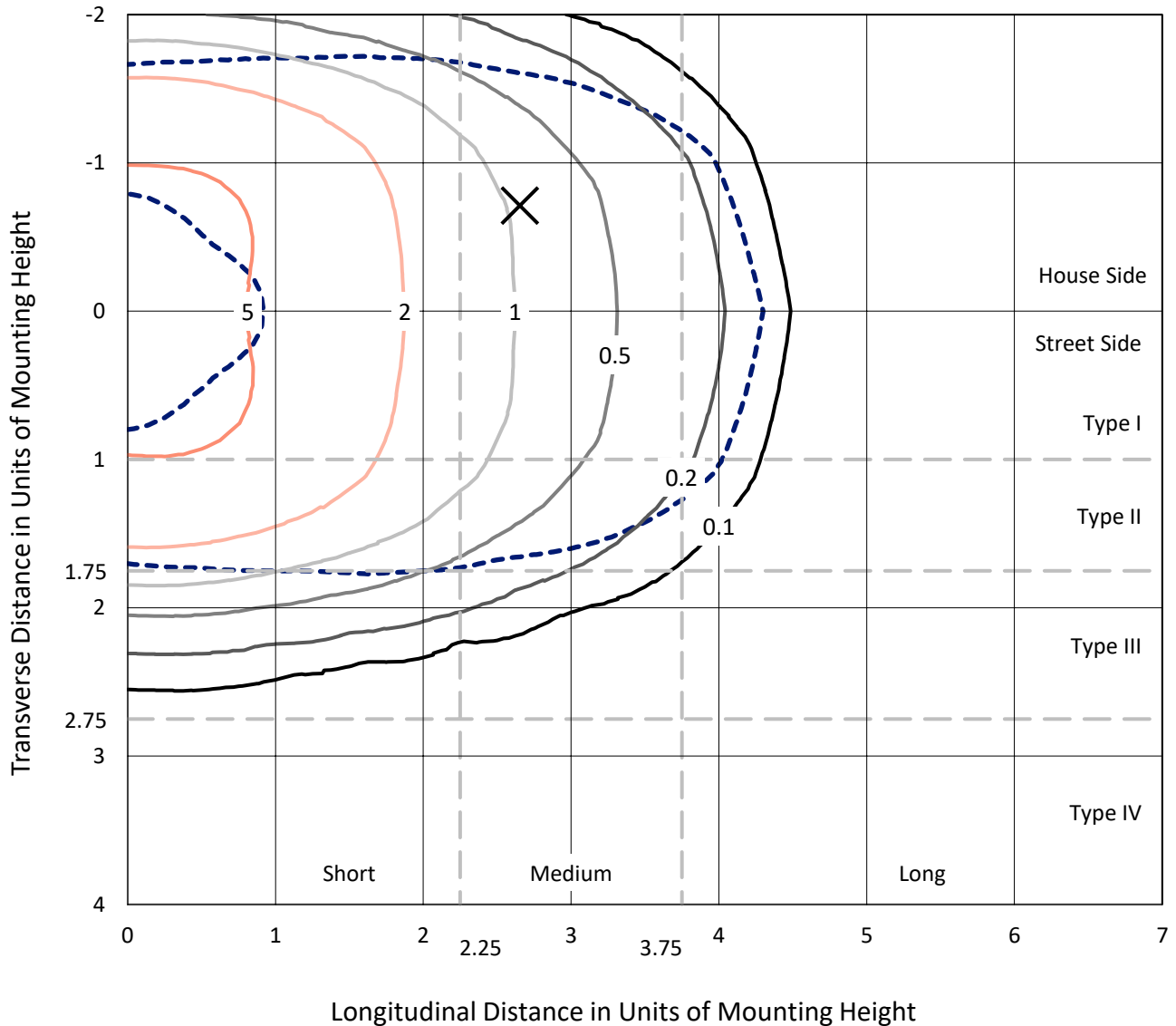
Lumens per Lamp: N/A  
Luminaire Lumens: 53755.1 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 464.2  
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

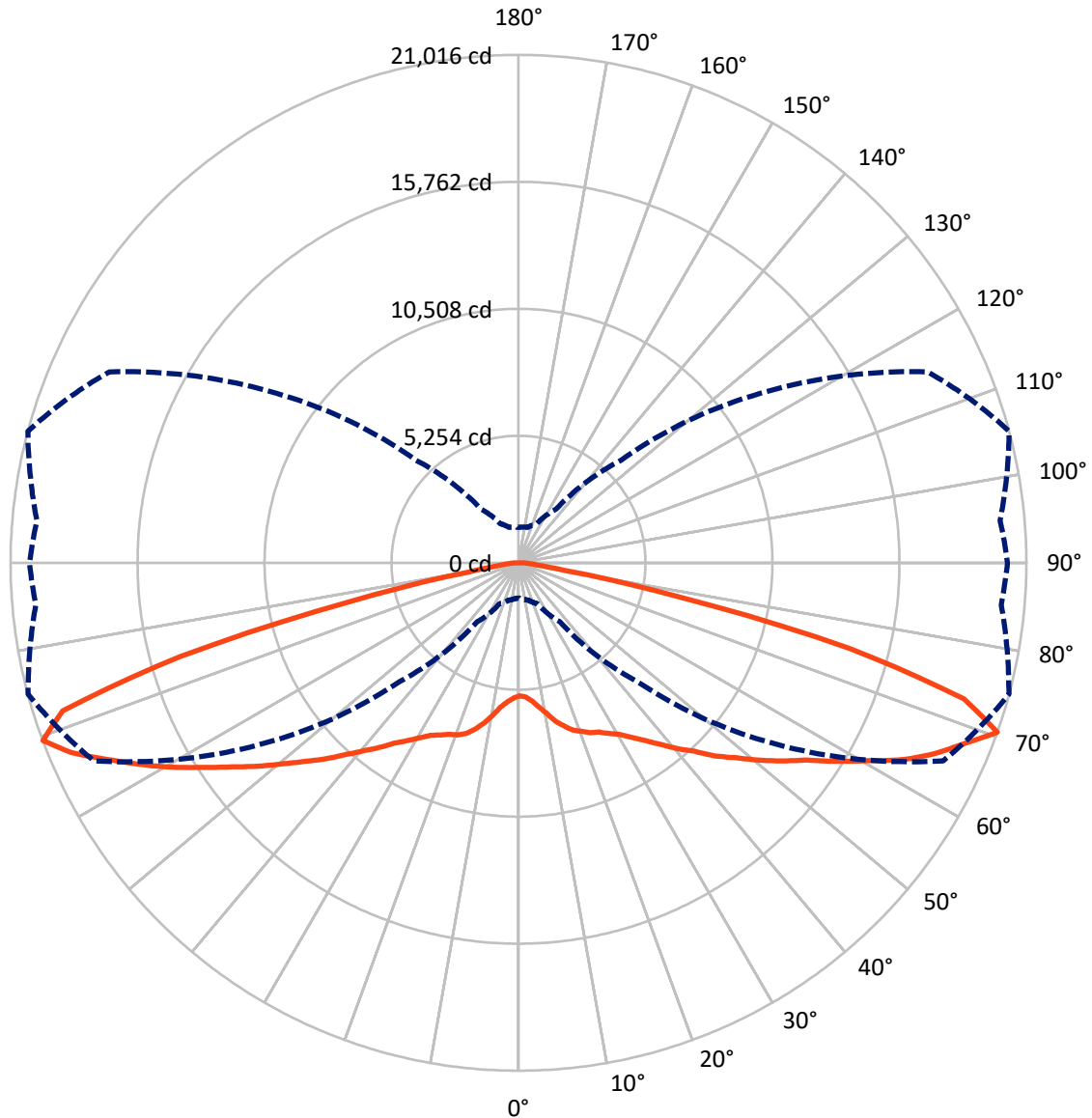
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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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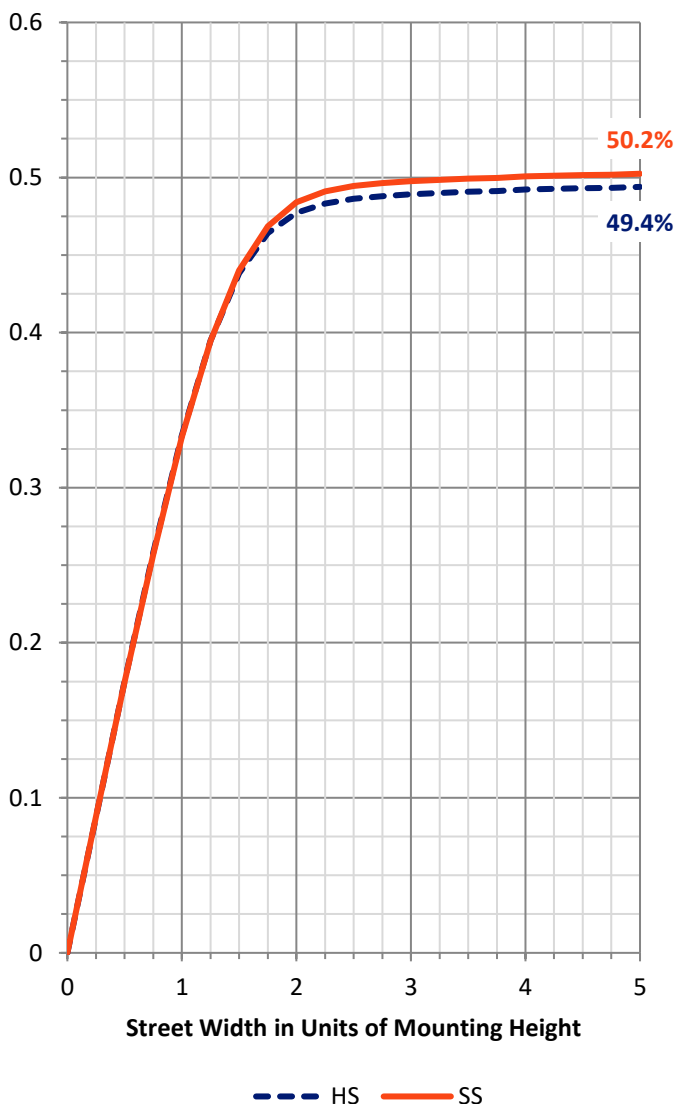
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26686.3	0.0	26686.3
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	27068.8	0.0	27068.8
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	53755.1	0.0	53755.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.9	1.0
10°-20°	1865.5	3.5
20°-30°	3612.2	6.7
30°-40°	6109.7	11.4
40°-50°	9746.9	18.1
50°-60°	13341.3	24.8
60°-70°	12575.1	23.4
70°-80°	5539.7	10.3
80°-90°	416.8	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°	53755.1	100.0
0°-180°	53755.1	100.0

**Coefficient of Utilization**

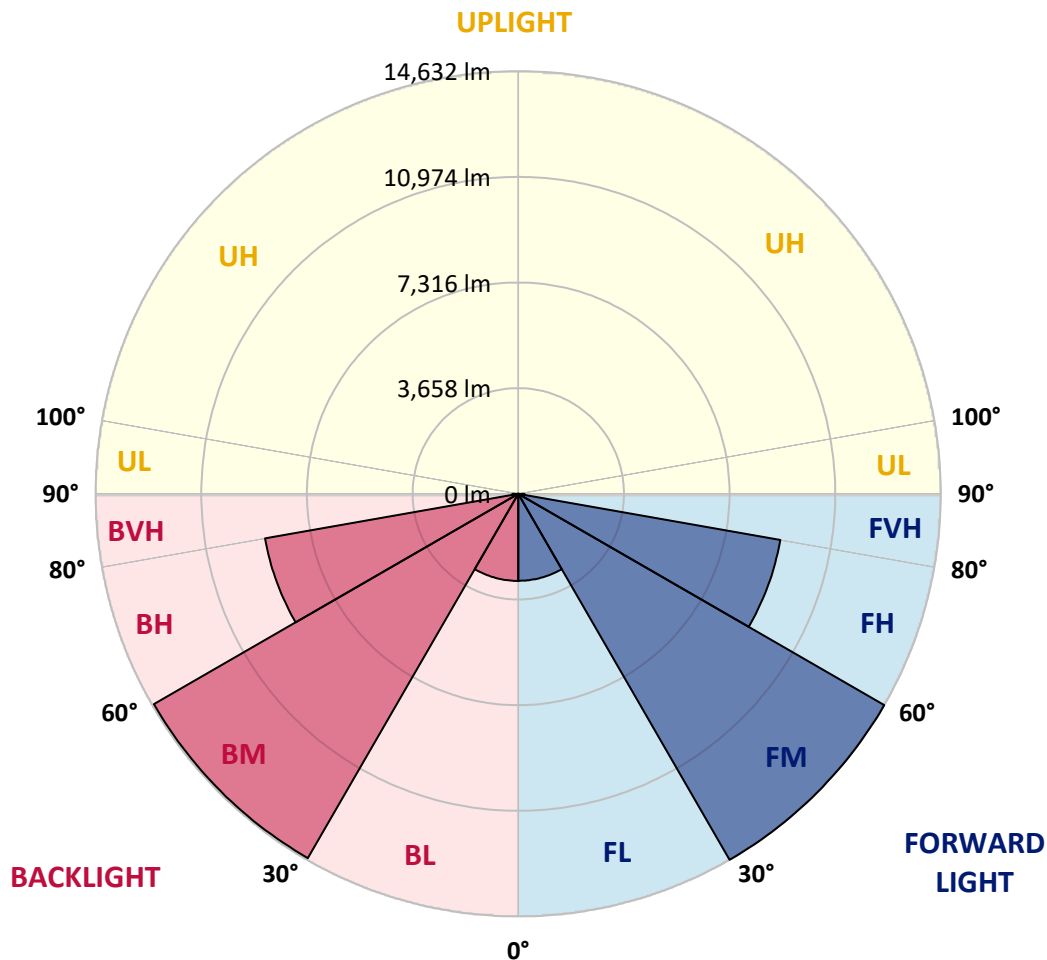


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3011.2	5.6			
FM (30°-60°)	14631.7	27.2			
FH (60°-80°)	9213.0	17.1			G4/12000
FVH (80°-90°)	212.9	0.4			G2/225
BL (0°-30°)	3014.4	5.6	B4/5000		
BM (30°-60°)	14566.3	27.1	B5		
BH (60°-80°)	8901.8	16.6	B5		G5
BVH (80°-90°)	203.9	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°	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5
2.5°	5469.7	5469.7	5463.9	5492.9	5521.9	5533.4	5556.6	5562.4	5597.2	5568.2
5°	5452.3	5446.5	5492.9	5562.4	5562.4	5637.7	5684.1	5747.8	5765.2	5800.0
7.5°	5574.0	5562.4	5539.2	5614.6	5678.3	5794.2	5857.9	5968.0	6008.6	6054.9
10°	5649.3	5649.3	5626.2	5759.4	5817.4	5973.8	6112.9	6223.0	6379.4	6431.5
12.5°	5660.9	5678.3	5747.8	5921.7	6083.9	6286.7	6391.0	6599.6	6756.0	6854.5
15°	5834.7	5800.0	5875.3	6112.9	6350.4	6530.0	6715.5	6866.1	7092.1	7219.6
17.5°	5991.2	5956.4	6095.5	6379.4	6622.7	6900.9	7063.1	7225.3	7387.6	7503.5
20°	6240.3	6269.3	6391.0	6698.1	7016.8	7260.1	7445.5	7474.5	7555.6	7723.6
22.5°	6547.4	6524.2	6779.2	7115.3	7462.9	7665.7	7770.0	7694.7	7654.1	7833.7
25°	6854.5	6924.0	7155.8	7468.7	7885.9	8158.2	8187.2	7978.6	7827.9	7891.7
27.5°	7323.8	7335.4	7578.8	7949.6	8372.6	8610.2	8592.8	8297.3	8007.6	8013.4
30°	7926.4	7868.5	8135.0	8471.1	8888.3	9102.7	9131.6	8708.7	8320.4	8204.6
32.5°	8505.9	8575.4	8807.2	9189.6	9496.7	9618.3	9554.6	9178.0	8673.9	8517.4
35°	9247.5	9235.9	9554.6	9879.1	10110.8	10134.0	10081.9	9531.4	9056.3	8853.5
37.5°	10041.3	10145.6	10354.2	10620.7	10864.1	10875.7	10591.8	10151.4	9566.2	9230.1
40°	10927.8	11043.7	11194.4	11582.6	11762.2	11576.8	11287.1	10690.3	10081.9	9786.4
42.5°	11710.0	11762.2	12069.3	12527.0	12613.9	12532.8	12104.0	11379.8	10672.9	10348.4
45°	12428.5	12498.0	12897.8	13309.2	13512.0	13373.0	12874.7	12185.2	11362.4	11084.3
47.5°	13089.1	13228.1	13616.3	14039.3	14352.2	14363.8	13749.6	12915.2	12046.1	11681.1
50°	13535.2	13738.0	14120.4	14601.3	15059.1	15238.7	14624.5	13726.4	12793.6	12405.3
52.5°	13778.6	13987.2	14369.6	15117.0	15626.9	15905.0	15615.3	14485.5	13668.5	13262.9
55°	13483.1	13622.1	14247.9	15296.6	16084.6	16542.4	16351.2	15534.2	14537.6	14207.3
57.5°	12225.7	12515.4	13286.1	14595.5	16073.1	17197.1	17179.7	16525.0	15540.0	15227.1
60°	10064.5	10307.8	11258.1	13089.1	15424.1	17463.7	18077.8	17486.8	16664.1	16299.0
62.5°	7103.7	7410.8	8511.7	10510.6	13512.0	17092.8	19109.2	18697.8	17765.0	17498.4
65°	3974.8	4160.2	5180.0	6987.8	10296.3	15053.3	19294.6	19955.2	18883.2	18477.6
67.5°	2126.5	2196.0	2671.1	3667.7	6298.3	11605.7	17423.1	20679.4	20094.2	19393.1
70°	1460.1	1483.3	1605.0	1877.3	2978.2	6941.4	13141.2	19387.3	21003.9	20047.9
72.5°	1234.2	1222.6	1251.5	1280.5	1558.6	3105.7	7712.1	14920.0	19827.7	19468.5
75°	1071.9	1066.1	1077.7	1048.7	1083.5	1367.4	3412.8	9299.7	14514.4	16200.5
77.5°	886.5	892.3	898.1	869.1	857.5	903.9	1373.2	4084.9	7144.2	7885.9
80°	672.1	683.7	730.1	701.1	654.7	660.5	811.2	1367.4	2051.1	1859.9
82.5°	457.7	463.5	562.0	527.3	492.5	446.2	521.5	706.9	799.6	608.4
85°	324.5	318.7	365.0	336.1	312.9	226.0	312.9	399.8	480.9	301.3
87.5°	75.3	75.3	150.6	121.7	115.9	92.7	121.7	156.4	208.6	133.3
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°
5504.5	0°	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5	5504.5
5626.2	2.5°	5608.8	5556.6	5556.6	5545.0	5498.7	5487.1	5446.5	5458.1	5429.1	5400.2
5811.6	5°	5805.8	5736.2	5736.2	5637.7	5545.0	5533.4	5487.1	5487.1	5440.7	5452.3
6107.1	7.5°	6078.1	6014.4	5910.1	5823.2	5695.7	5643.5	5556.6	5545.0	5533.4	5510.3
6437.3	10°	6402.6	6321.5	6217.2	6037.5	5933.2	5834.7	5747.8	5626.2	5597.2	5603.0
6889.3	12.5°	6842.9	6715.5	6489.5	6333.0	6199.8	6072.3	5944.8	5765.2	5724.7	5742.0
7300.7	15°	7155.8	6993.6	6767.6	6709.7	6530.0	6373.6	6165.0	5962.2	5892.7	5875.3
7509.3	17.5°	7410.8	7277.5	7144.2	7057.3	6912.5	6721.3	6431.5	6199.8	6043.3	6025.9
7694.7	20°	7619.3	7445.5	7416.6	7468.7	7289.1	7161.6	6808.2	6524.2	6315.7	6228.7
7874.3	22.5°	7746.8	7636.7	7717.9	7764.2	7752.6	7538.2	7173.2	6842.9	6582.2	6501.1
7874.3	25°	7885.9	7758.4	8048.1	8204.6	8245.1	7891.7	7607.8	7173.2	6918.3	6866.1
8024.9	27.5°	7955.4	8001.8	8337.8	8668.1	8639.1	8366.8	7984.4	7596.2	7393.4	7300.7
8233.5	30°	8158.2	8233.5	8743.4	9114.2	9120.0	8853.5	8563.8	8123.4	7897.5	7856.9
8534.8	32.5°	8523.2	8615.9	9160.6	9554.6	9624.1	9421.3	9131.6	8859.3	8627.5	8534.8
8772.4	35°	8801.4	9038.9	9653.1	10012.3	10197.8	10076.1	9913.8	9629.9	9386.6	9305.5
9328.6	37.5°	9201.2	9531.4	10122.4	10609.1	10817.7	10806.1	10684.5	10377.4	10174.6	10105.1
9832.7	40°	9774.8	10105.1	10643.9	11287.1	11675.3	11657.9	11588.4	11350.8	11049.5	11014.7
10371.6	42.5°	10383.2	10655.5	11356.6	12092.5	12648.7	12590.8	12405.3	12127.2	11918.6	11872.3
10974.2	45°	10974.2	11397.2	12046.1	12990.6	13407.7	13552.6	13332.4	12857.3	12619.7	12590.8
11675.3	47.5°	11715.8	12051.9	12863.1	13709.0	14329.0	14352.2	13975.6	13535.2	13100.6	13193.4
12364.8	50°	12376.4	12822.5	13645.3	14572.4	15314.0	15047.5	14566.6	14016.1	13703.2	13581.6
13199.1	52.5°	13083.3	13627.9	14584.0	15528.4	15939.8	15673.3	14891.0	14276.9	13801.7	13749.6
14265.3	55°	14114.6	14398.5	15650.1	16374.4	16507.6	15945.6	14792.5	13923.4	13309.2	13158.6
15238.7	57.5°	15163.4	15493.6	16588.7	17214.5	17075.5	15794.9	14155.2	12810.9	12005.5	11791.2
16287.4	60°	16223.7	16629.3	17550.6	18124.2	17405.7	14757.8	12353.2	10620.7	9682.1	9490.9
17596.9	62.5°	17405.7	17933.0	18755.8	18958.6	16426.5	12706.6	9803.8	7665.7	6715.5	6396.8
18495.0	65°	18454.5	18993.3	20007.3	18784.7	14346.4	9479.3	6338.8	4380.4	3679.3	3424.4
19283.0	67.5°	19317.8	19926.2	20424.5	16623.5	10504.9	5550.8	3302.7	2306.1	2045.3	1952.6
20233.3	70°	20001.5	21015.5	18686.2	12219.9	6002.8	2705.9	1784.6	1518.1	1483.3	1460.1
19398.9	72.5°	19404.7	19271.4	13952.4	7051.5	2630.6	1489.1	1292.1	1251.5	1245.7	1251.5
16461.3	75°	15870.3	14155.2	8343.6	3065.1	1321.1	1077.7	1071.9	1054.5	1083.5	1083.5
8505.9	77.5°	7700.5	6732.8	3488.1	1315.3	869.1	846.0	874.9	874.9	874.9	874.9
1917.9	80°	1784.6	1975.8	1245.7	799.6	631.6	631.6	695.3	701.1	672.1	660.5
533.1	82.5°	608.4	811.2	683.7	504.1	417.2	469.3	527.3	538.9	446.2	451.9
272.3	85°	301.3	475.1	370.8	289.7	214.4	289.7	341.9	359.2	307.1	295.5
121.7	87.5°	139.1	208.6	139.1	98.5	75.3	104.3	98.5	81.1	46.4	46.4
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

