

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: P575096

Luminaire Tested: **EPH-VN-04-740-U-RW**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575096
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-740-U-RW
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

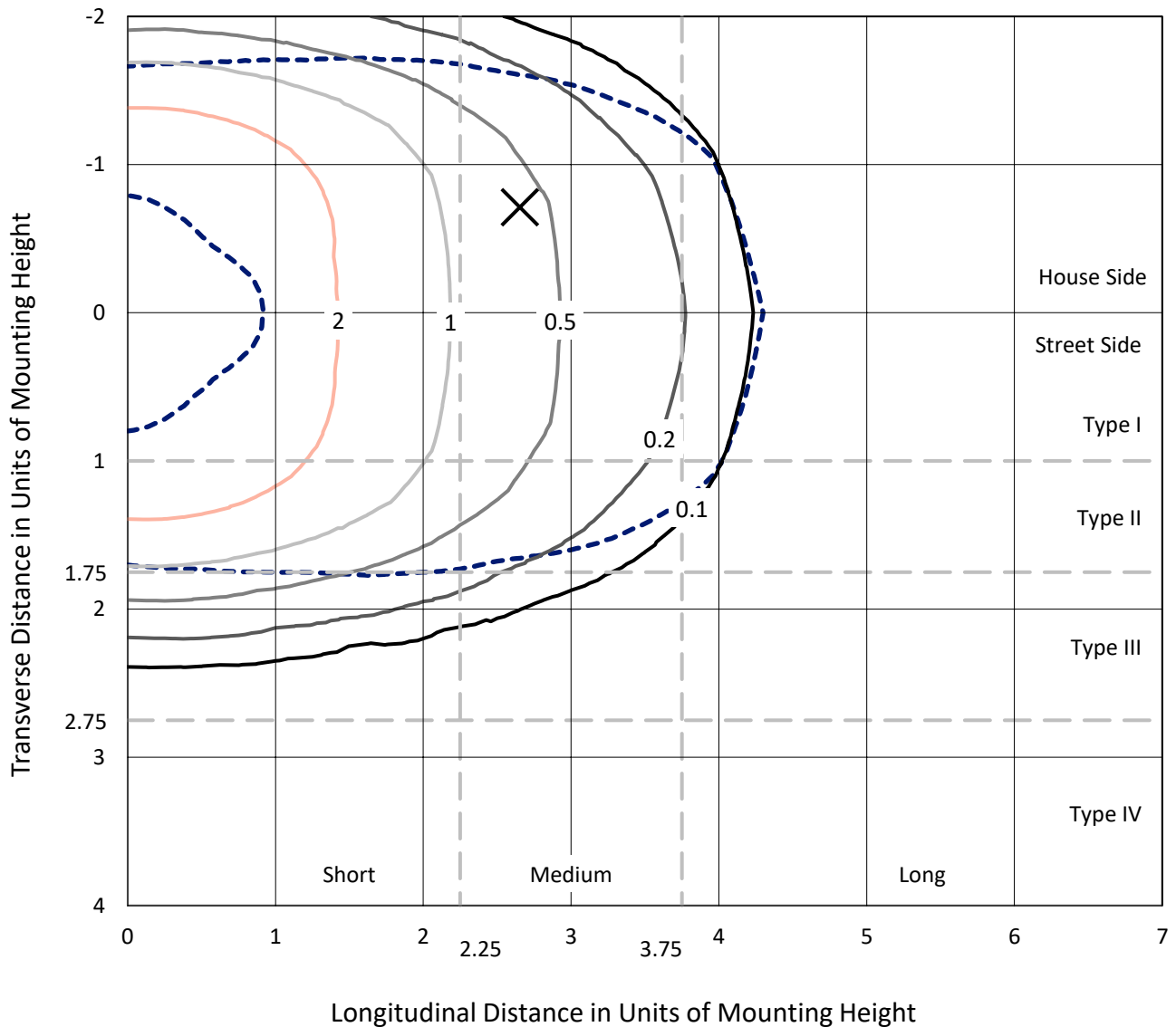
Lumens per Lamp: N/A
Luminaire Lumens: 36024.9 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 303.8
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

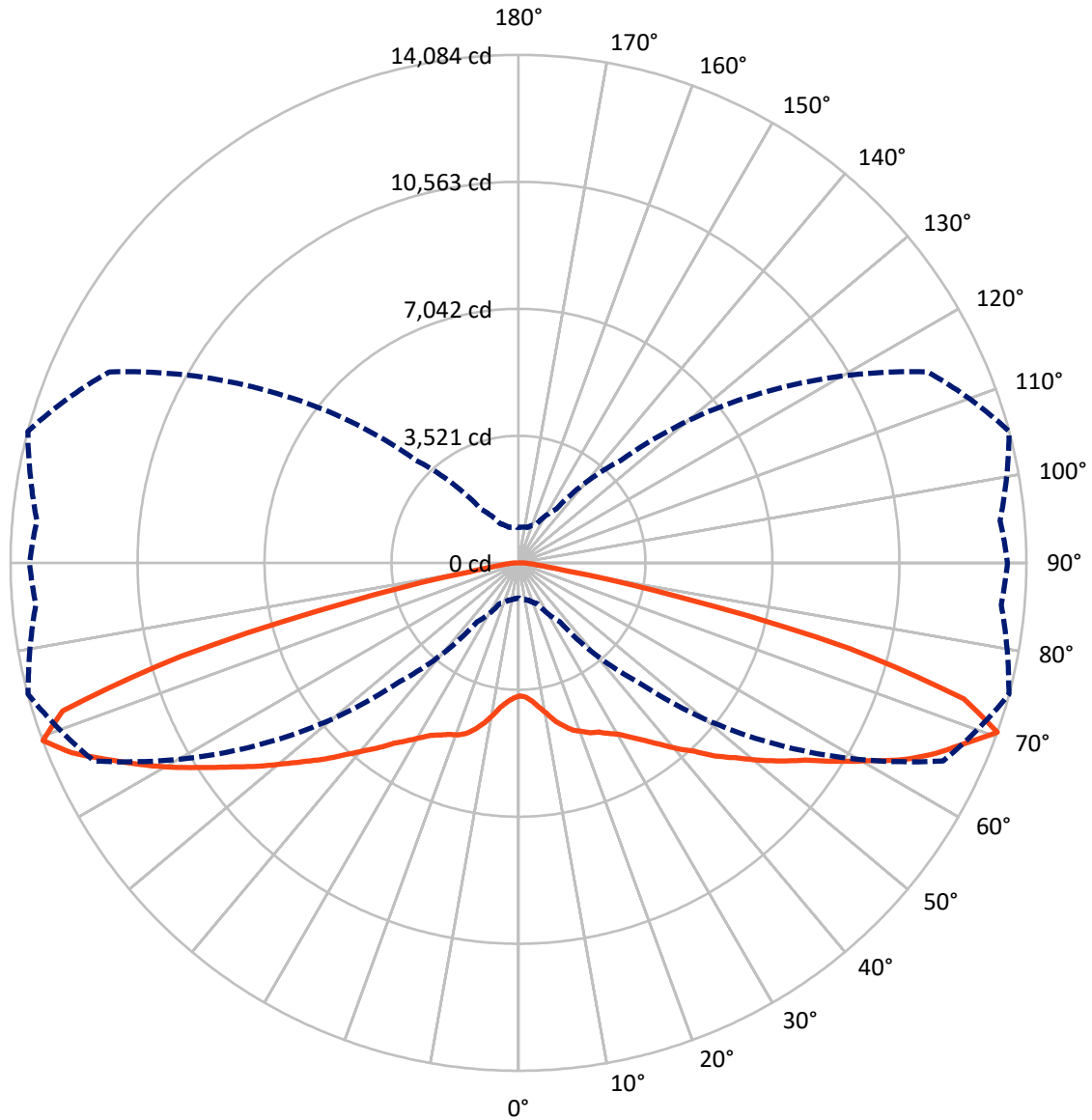
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.9 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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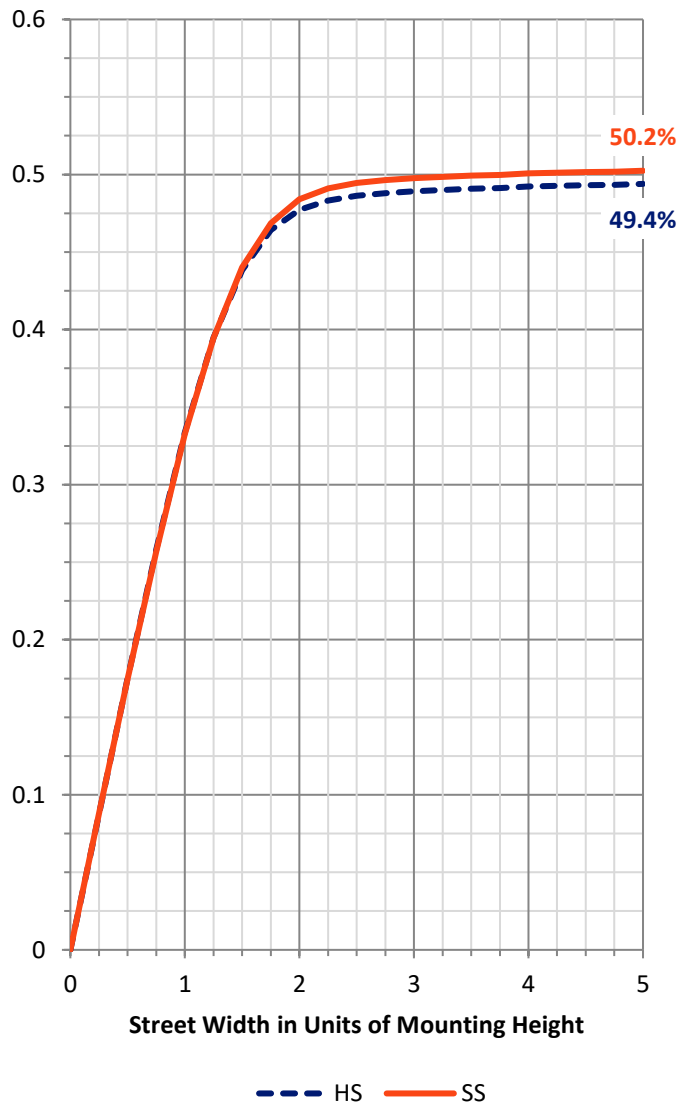
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17884.3	0.0	17884.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	18140.6	0.0	18140.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	36024.9	0.0	36024.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.2	1.0
10°-20°	1250.2	3.5
20°-30°	2420.8	6.7
30°-40°	4094.5	11.4
40°-50°	6532.0	18.1
50°-60°	8940.9	24.8
60°-70°	8427.4	23.4
70°-80°	3712.5	10.3
80°-90°	279.3	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°	36024.9	100.0
0°-180°	36024.9	100.0

Coefficient of Utilization



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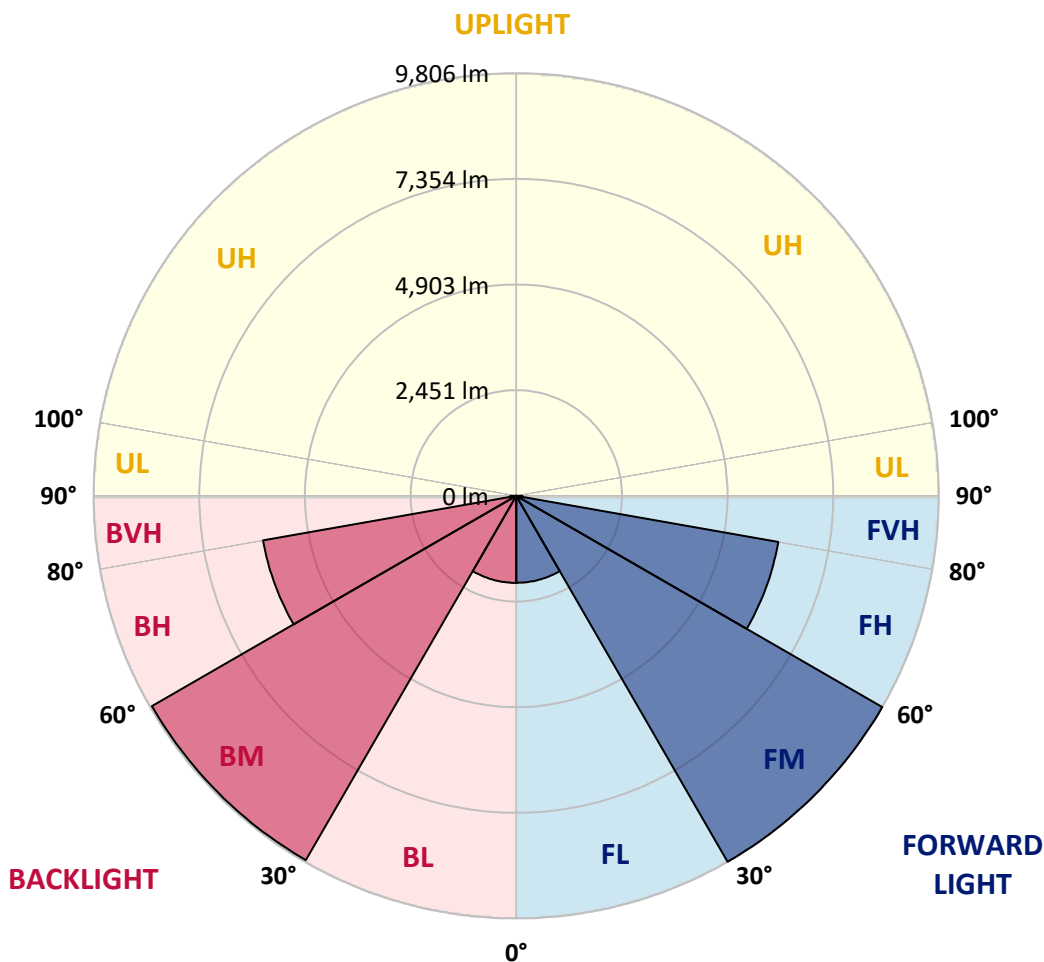
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2018.0	5.6			
FM (30°-60°)	9805.6	27.2			
FH (60°-80°)	6174.3	17.1			G3/7500
FVH (80°-90°)	142.7	0.4			G2/225
BL (0°-30°)	2020.2	5.6	B3/2500		
BM (30°-60°)	9761.8	27.1	B5		
BH (60°-80°)	5965.7	16.6	B5		G5
BVH (80°-90°)	136.6	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°	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9
2.5°	3665.6	3665.6	3661.7	3681.1	3700.6	3708.3	3723.9	3727.7	3751.0	3731.6
5°	3654.0	3650.1	3681.1	3727.7	3727.7	3778.2	3809.3	3852.0	3863.6	3886.9
7.5°	3735.5	3727.7	3712.2	3762.7	3805.4	3883.1	3925.8	3999.6	4026.7	4057.8
10°	3786.0	3786.0	3770.5	3859.8	3898.6	4003.4	4096.6	4170.4	4275.3	4310.2
12.5°	3793.8	3805.4	3852.0	3968.5	4077.2	4213.1	4283.0	4422.8	4527.7	4593.7
15°	3910.2	3886.9	3937.4	4096.6	4255.8	4376.2	4500.5	4601.4	4752.9	4838.3
17.5°	4015.1	3991.8	4085.0	4275.3	4438.3	4624.7	4733.5	4842.2	4950.9	5028.6
20°	4182.1	4201.5	4283.0	4488.8	4702.4	4865.5	4989.7	5009.2	5063.5	5176.1
22.5°	4387.9	4372.3	4543.2	4768.4	5001.4	5137.3	5207.2	5156.7	5129.5	5249.9
25°	4593.7	4640.3	4795.6	5005.3	5284.8	5467.4	5486.8	5347.0	5246.0	5288.7
27.5°	4908.2	4916.0	5079.0	5327.6	5611.0	5770.2	5758.6	5560.5	5366.4	5370.3
30°	5312.0	5273.2	5451.8	5677.0	5956.6	6100.3	6119.7	5836.2	5576.1	5498.4
32.5°	5700.3	5746.9	5902.3	6158.5	6364.3	6445.9	6403.2	6150.8	5812.9	5708.1
35°	6197.4	6189.6	6403.2	6620.6	6775.9	6791.5	6756.5	6387.6	6069.2	5933.3
37.5°	6729.3	6799.2	6939.0	7117.7	7280.7	7288.5	7098.2	6803.1	6410.9	6185.7
40°	7323.5	7401.1	7502.1	7762.2	7882.6	7758.4	7564.2	7164.3	6756.5	6558.5
42.5°	7847.7	7882.6	8088.4	8395.2	8453.4	8399.1	8111.7	7626.3	7152.6	6935.2
45°	8329.2	8375.8	8643.7	8919.4	9055.3	8962.1	8628.2	8166.1	7614.7	7428.3
47.5°	8771.8	8865.0	9125.2	9408.7	9618.3	9626.1	9214.5	8655.3	8072.9	7828.3
50°	9070.8	9206.7	9463.0	9785.3	10092.1	10212.5	9800.9	9199.0	8573.8	8313.6
52.5°	9233.9	9373.7	9630.0	10130.9	10472.6	10659.0	10464.9	9707.7	9160.1	8888.3
55°	9035.9	9129.1	9548.5	10251.3	10779.4	11086.1	10958.0	10410.5	9742.6	9521.3
57.5°	8193.3	8387.4	8903.9	9781.4	10771.6	11524.9	11513.3	11074.5	10414.4	10204.7
60°	6744.9	6908.0	7544.8	8771.8	10336.7	11703.6	12115.2	11719.1	11167.7	10923.1
62.5°	4760.6	4966.4	5704.2	7043.9	9055.3	11455.0	12806.3	12530.6	11905.5	11726.9
65°	2663.8	2788.0	3471.5	4683.0	6900.2	10088.2	12930.6	13373.3	12654.9	12383.1
67.5°	1425.1	1471.7	1790.1	2458.0	4220.9	7777.8	11676.4	13858.7	13466.5	12996.6
70°	978.5	994.1	1075.6	1258.1	1995.9	4651.9	8806.8	12992.7	14076.1	13435.4
72.5°	827.1	819.3	838.7	858.2	1044.5	2081.3	5168.4	9998.9	13287.8	13047.1
75°	718.4	714.5	722.2	702.8	726.1	916.4	2287.1	6232.3	9727.1	10857.0
77.5°	594.1	598.0	601.9	582.5	574.7	605.8	920.3	2737.6	4787.8	5284.8
80°	450.4	458.2	489.3	469.9	438.8	442.7	543.6	916.4	1374.6	1246.5
82.5°	306.8	310.6	376.7	353.4	330.1	299.0	349.5	473.7	535.9	407.7
85°	217.5	213.6	244.6	225.2	209.7	151.4	209.7	267.9	322.3	201.9
87.5°	50.5	50.5	101.0	81.5	77.7	62.1	81.5	104.8	139.8	89.3
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°
3688.9	0°	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9	3688.9
3770.5	2.5°	3758.8	3723.9	3723.9	3716.1	3685.0	3677.3	3650.1	3657.8	3638.4	3619.0
3894.7	5°	3890.8	3844.2	3844.2	3778.2	3716.1	3708.3	3677.3	3677.3	3646.2	3654.0
4092.7	7.5°	4073.3	4030.6	3960.7	3902.5	3817.1	3782.1	3723.9	3716.1	3708.3	3692.8
4314.1	10°	4290.8	4236.4	4166.5	4046.2	3976.3	3910.2	3852.0	3770.5	3751.0	3754.9
4617.0	12.5°	4585.9	4500.5	4349.0	4244.2	4154.9	4069.5	3984.0	3863.6	3836.5	3848.1
4892.7	15°	4795.6	4686.9	4535.4	4496.6	4376.2	4271.4	4131.6	3995.7	3949.1	3937.4
5032.5	17.5°	4966.4	4877.1	4787.8	4729.6	4632.5	4504.4	4310.2	4154.9	4050.0	4038.4
5156.7	20°	5106.2	4989.7	4970.3	5005.3	4884.9	4799.5	4562.6	4372.3	4232.5	4174.3
5277.1	22.5°	5191.7	5117.9	5172.2	5203.3	5195.5	5051.9	4807.2	4585.9	4411.2	4356.8
5277.1	25°	5284.8	5199.4	5393.6	5498.4	5525.6	5288.7	5098.5	4807.2	4636.4	4601.4
5378.0	27.5°	5331.4	5362.5	5587.7	5809.1	5789.6	5607.1	5350.9	5090.7	4954.8	4892.7
5517.8	30°	5467.4	5517.8	5859.5	6108.1	6111.9	5933.3	5739.2	5444.1	5292.6	5265.4
5719.8	32.5°	5712.0	5774.1	6139.1	6403.2	6449.8	6313.9	6119.7	5937.2	5781.9	5719.8
5879.0	35°	5898.4	6057.6	6469.2	6709.9	6834.2	6752.6	6643.9	6453.7	6290.6	6236.2
6251.7	37.5°	6166.3	6387.6	6783.7	7109.9	7249.7	7241.9	7160.4	6954.6	6818.7	6772.1
6589.6	40°	6550.7	6772.1	7133.2	7564.2	7824.4	7812.7	7766.1	7606.9	7405.0	7381.7
6950.7	42.5°	6958.5	7141.0	7610.8	8104.0	8476.7	8437.9	8313.6	8127.3	7987.5	7956.4
7354.5	45°	7354.5	7638.0	8072.9	8705.8	8985.4	9082.5	8934.9	8616.5	8457.3	8437.9
7824.4	47.5°	7851.6	8076.8	8620.4	9187.3	9602.8	9618.3	9365.9	9070.8	8779.6	8841.7
8286.5	50°	8294.2	8593.2	9144.6	9765.9	10262.9	10084.3	9762.0	9393.1	9183.4	9101.9
8845.6	52.5°	8768.0	9133.0	9773.7	10406.6	10682.3	10503.7	9979.5	9567.9	9249.5	9214.5
9560.1	55°	9459.1	9649.4	10488.2	10973.5	11062.8	10686.2	9913.5	9331.0	8919.4	8818.4
10212.5	57.5°	10162.0	10383.3	11117.2	11536.6	11443.4	10585.2	9486.3	8585.5	8045.7	7902.0
10915.3	60°	10872.6	11144.4	11761.8	12146.2	11664.7	9890.2	8278.7	7117.7	6488.6	6360.5
11792.9	62.5°	11664.7	12018.1	12569.5	12705.4	11008.5	8515.6	6570.1	5137.3	4500.5	4286.9
12394.7	65°	12367.6	12728.7	13408.2	12588.9	9614.5	6352.7	4248.1	2935.6	2465.7	2294.9
12922.8	67.5°	12946.1	13353.9	13687.8	11140.5	7040.0	3720.0	2213.3	1545.5	1370.7	1308.6
13559.7	70°	13404.3	14083.9	12522.9	8189.4	4022.9	1813.4	1196.0	1017.4	994.1	978.5
13000.5	72.5°	13004.4	12915.1	9350.4	4725.7	1762.9	997.9	865.9	838.7	834.9	838.7
11031.8	75°	10635.7	9486.3	5591.6	2054.1	885.3	722.2	718.4	706.7	726.1	726.1
5700.3	77.5°	5160.6	4512.1	2337.6	881.5	582.5	566.9	586.3	586.3	586.3	586.3
1285.3	80°	1196.0	1324.1	834.9	535.9	423.3	423.3	466.0	469.9	450.4	442.7
357.2	82.5°	407.7	543.6	458.2	337.8	279.6	314.5	353.4	361.1	299.0	302.9
182.5	85°	201.9	318.4	248.5	194.2	143.7	194.2	229.1	240.7	205.8	198.0
81.5	87.5°	93.2	139.8	93.2	66.0	50.5	69.9	66.0	54.4	31.1	31.1
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

