

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: P575108

Luminaire Tested: **EPH-VN-04-760-U-RW**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575108
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-760-U-RW
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

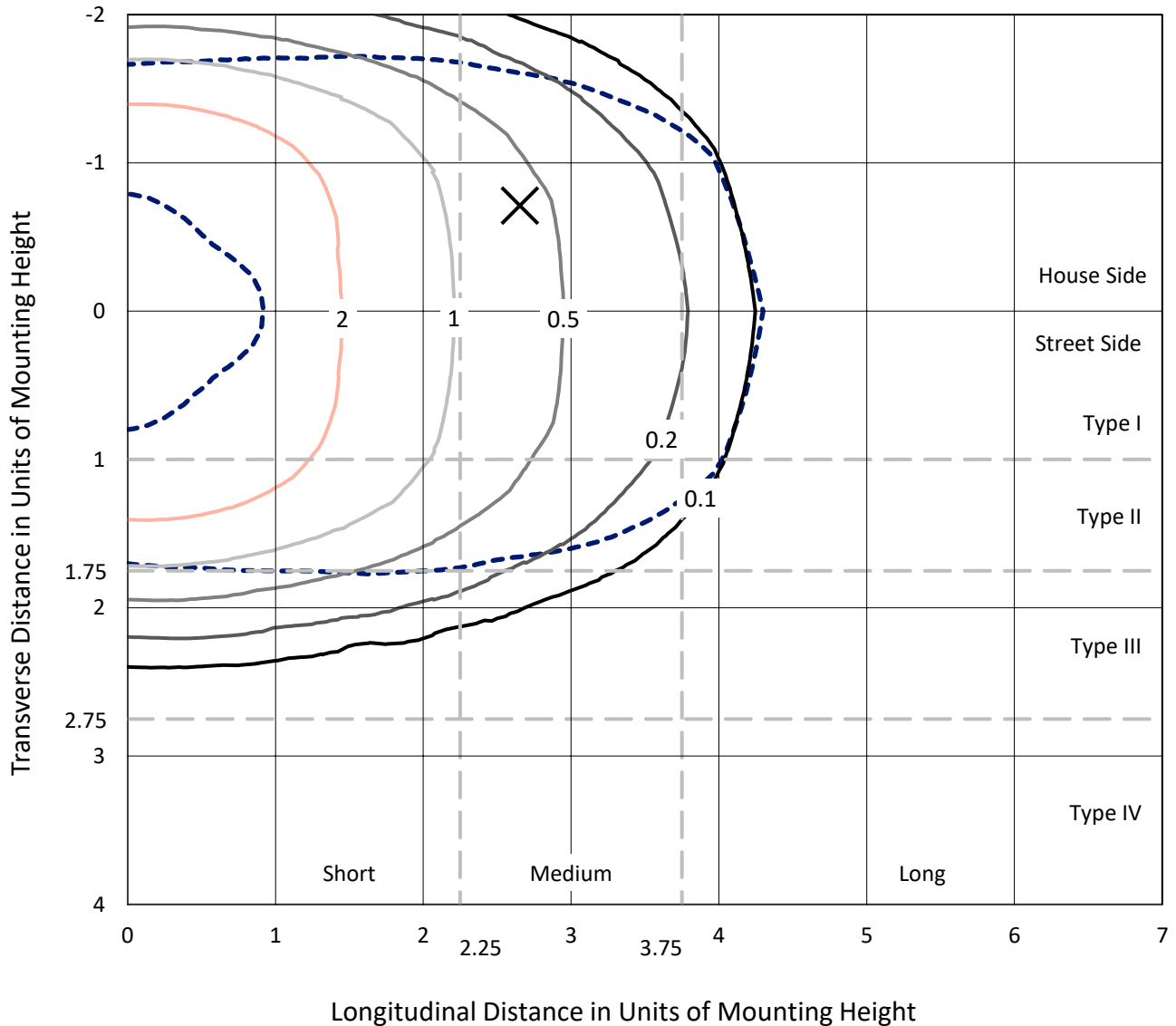
Lumens per Lamp: N/A
Luminaire Lumens: 36849.8 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

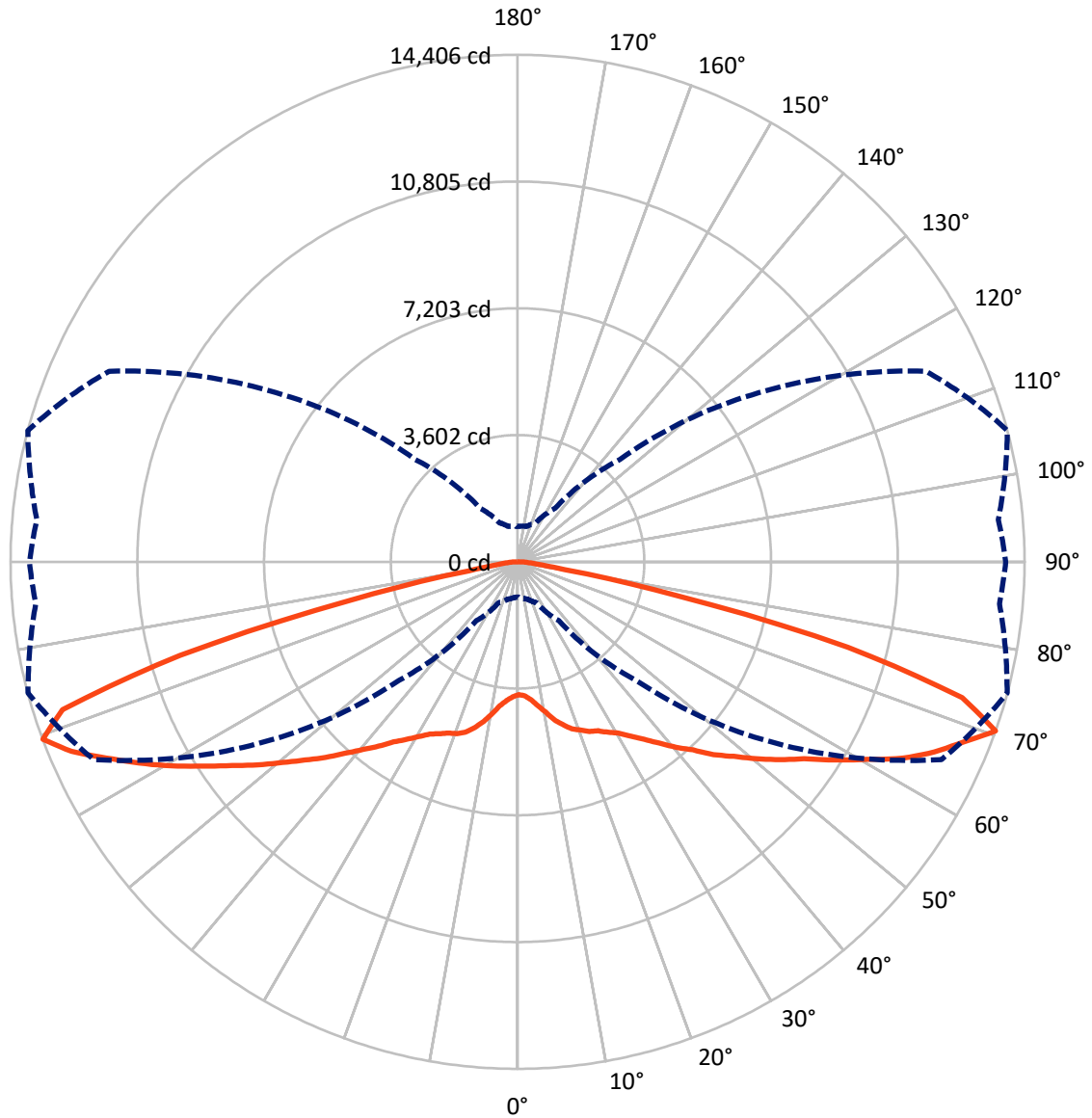
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 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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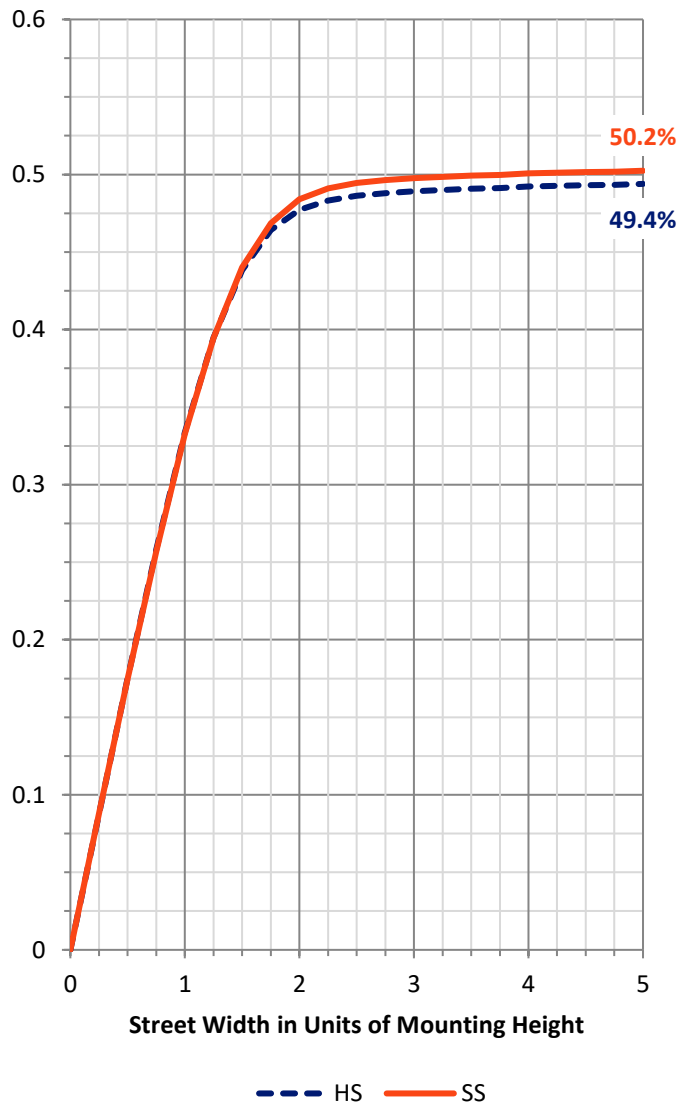
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18293.8	0.0	18293.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	18556.0	0.0	18556.0
	% Fixture	50.4	0.0	50.4
Total	Lumens	36849.8	0.0	36849.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.6	1.0
10°-20°	1278.8	3.5
20°-30°	2476.2	6.7
30°-40°	4188.3	11.4
40°-50°	6681.6	18.1
50°-60°	9145.7	24.8
60°-70°	8620.4	23.4
70°-80°	3797.5	10.3
80°-90°	285.7	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°	36849.8	100.0
0°-180°	36849.8	100.0

Coefficient of Utilization

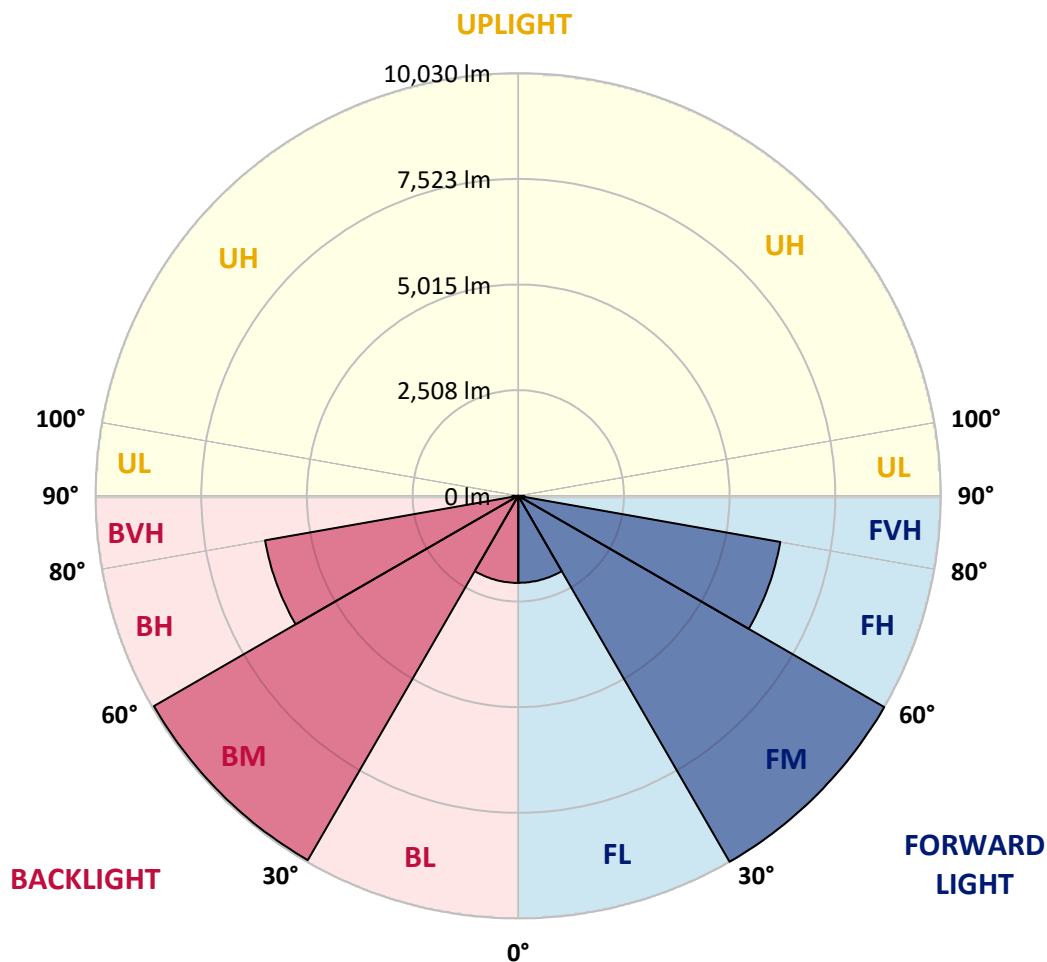


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2064.2	5.6			
FM (30°-60°)	10030.2	27.2			
FH (60°-80°)	6315.7	17.1			G3/7500
FVH (80°-90°)	146.0	0.4			G2/225
BL (0°-30°)	2066.4	5.6	B3/2500		
BM (30°-60°)	9985.4	27.1	B5		
BH (60°-80°)	6102.3	16.6	B5		G5
BVH (80°-90°)	139.8	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°	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4
2.5°	3749.6	3749.6	3745.6	3765.4	3785.3	3793.2	3809.1	3813.1	3836.9	3817.1
5°	3737.6	3733.7	3765.4	3813.1	3813.1	3864.7	3896.5	3940.2	3952.1	3976.0
7.5°	3821.1	3813.1	3797.2	3848.9	3892.5	3972.0	4015.7	4091.1	4118.9	4150.7
10°	3872.7	3872.7	3856.8	3948.2	3987.9	4095.1	4190.4	4265.9	4373.2	4408.9
12.5°	3880.6	3892.5	3940.2	4059.4	4170.6	4309.6	4381.1	4524.1	4631.3	4698.9
15°	3999.8	3976.0	4027.6	4190.4	4353.3	4476.4	4603.5	4706.8	4861.7	4949.1
17.5°	4107.0	4083.2	4178.5	4373.2	4540.0	4730.6	4841.9	4953.1	5064.3	5143.7
20°	4277.8	4297.7	4381.1	4591.6	4810.1	4976.9	5104.0	5123.9	5179.5	5294.7
22.5°	4488.3	4472.5	4647.2	4877.6	5115.9	5254.9	5326.4	5274.8	5247.0	5370.1
25°	4698.9	4746.5	4905.4	5119.9	5405.9	5592.6	5612.4	5469.4	5366.2	5409.8
27.5°	5020.6	5028.5	5195.4	5449.6	5739.5	5902.4	5890.5	5687.9	5489.3	5493.3
30°	5433.7	5394.0	5576.7	5807.0	6093.0	6240.0	6259.8	5969.9	5703.8	5624.3
32.5°	5830.9	5878.5	6037.4	6299.6	6510.1	6593.5	6549.8	6291.6	5946.1	5838.8
35°	6339.3	6331.3	6549.8	6772.2	6931.1	6947.0	6911.3	6533.9	6208.2	6069.2
37.5°	6883.5	6954.9	7097.9	7280.7	7447.5	7455.4	7260.8	6958.9	6557.7	6327.4
40°	7491.2	7570.6	7673.9	7940.0	8063.1	7936.0	7737.4	7328.3	6911.3	6708.7
42.5°	8027.4	8063.1	8273.6	8587.4	8647.0	8591.4	8297.5	7801.0	7316.4	7094.0
45°	8519.9	8567.6	8841.6	9123.7	9262.7	9167.3	8825.8	8353.1	7789.1	7598.4
47.5°	8972.7	9068.0	9334.2	9624.1	9838.6	9846.6	9425.5	8853.6	8257.8	8007.5
50°	9278.6	9417.6	9679.7	10009.4	10323.2	10446.3	10025.3	9409.6	8770.1	8504.0
52.5°	9445.4	9588.4	9850.5	10362.9	10712.4	10903.1	10704.5	9930.0	9369.9	9091.9
55°	9242.8	9338.1	9767.1	10486.0	11026.2	11340.0	11208.9	10648.9	9965.7	9739.3
57.5°	8380.9	8579.5	9107.8	10005.4	11018.3	11788.9	11776.9	11328.1	10652.9	10438.4
60°	6899.3	7066.2	7717.6	8972.7	10573.4	11971.6	12392.6	11987.5	11423.4	11173.2
62.5°	4869.7	5080.2	5834.8	7205.2	9262.7	11717.4	13099.6	12817.6	12178.1	11995.4
65°	2724.8	2851.9	3551.0	4790.2	7058.2	10319.2	13226.7	13679.5	12944.7	12666.7
67.5°	1457.7	1505.4	1831.1	2514.3	4317.5	7955.9	11943.8	14176.0	13774.8	13294.2
70°	1000.9	1016.8	1100.2	1286.9	2041.6	4758.4	9008.5	13290.3	14398.4	13743.1
72.5°	846.0	838.1	857.9	877.8	1068.5	2129.0	5286.7	10227.9	13592.1	13345.9
75°	734.8	730.8	738.8	718.9	742.8	937.4	2339.5	6375.0	9949.8	11105.7
77.5°	607.7	611.7	615.7	595.8	587.9	619.6	941.4	2800.3	4897.5	5405.9
80°	460.8	468.7	500.5	480.6	448.8	452.8	556.1	937.4	1406.1	1275.0
82.5°	313.8	317.8	385.3	361.5	337.6	305.8	357.5	484.6	548.1	417.1
85°	222.4	218.5	250.2	230.4	214.5	154.9	214.5	274.1	329.7	206.5
87.5°	51.6	51.6	103.3	83.4	79.4	63.6	83.4	107.2	143.0	91.4
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°
3773.4	0°	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4
3856.8	2.5°	3844.9	3809.1	3809.1	3801.2	3769.4	3761.5	3733.7	3741.6	3721.8	3701.9
3983.9	5°	3979.9	3932.3	3932.3	3864.7	3801.2	3793.2	3761.5	3761.5	3729.7	3737.6
4186.5	7.5°	4166.6	4122.9	4051.4	3991.8	3904.5	3868.7	3809.1	3801.2	3793.2	3777.4
4412.9	10°	4389.0	4333.4	4261.9	4138.8	4067.3	3999.8	3940.2	3856.8	3836.9	3840.9
4722.7	12.5°	4690.9	4603.5	4448.6	4341.4	4250.0	4162.6	4075.3	3952.1	3924.3	3936.2
5004.7	15°	4905.4	4794.2	4639.3	4599.6	4476.4	4369.2	4226.2	4087.2	4039.5	4027.6
5147.7	17.5°	5080.2	4988.8	4897.5	4837.9	4738.6	4607.5	4408.9	4250.0	4142.8	4130.9
5274.8	20°	5223.2	5104.0	5084.1	5119.9	4996.8	4909.4	4667.1	4472.5	4329.5	4269.9
5397.9	22.5°	5310.5	5235.1	5290.7	5322.5	5314.5	5167.6	4917.3	4690.9	4512.2	4456.6
5397.9	25°	5405.9	5318.5	5517.1	5624.3	5652.1	5409.8	5215.2	4917.3	4742.6	4706.8
5501.2	27.5°	5453.5	5485.3	5715.7	5942.1	5922.2	5735.5	5473.4	5207.3	5068.3	5004.7
5644.2	30°	5592.6	5644.2	5993.7	6247.9	6251.9	6069.2	5870.6	5568.7	5413.8	5386.0
5850.7	32.5°	5842.8	5906.3	6279.7	6549.8	6597.5	6458.4	6259.8	6073.2	5914.3	5850.7
6013.6	35°	6033.4	6196.3	6617.3	6863.6	6990.7	6907.3	6796.1	6601.4	6434.6	6379.0
6394.9	37.5°	6307.5	6533.9	6939.1	7272.7	7415.7	7407.8	7324.3	7113.8	6974.8	6927.1
6740.5	40°	6700.7	6927.1	7296.5	7737.4	8003.6	7991.6	7944.0	7781.1	7574.6	7550.7
7109.9	42.5°	7117.8	7304.5	7785.1	8289.5	8670.8	8631.1	8504.0	8313.4	8170.4	8138.6
7522.9	45°	7522.9	7812.9	8257.8	8905.2	9191.2	9290.5	9139.5	8813.8	8651.0	8631.1
8003.6	47.5°	8031.4	8261.7	8817.8	9397.7	9822.7	9838.6	9580.4	9278.6	8980.7	9044.2
8476.2	50°	8484.2	8790.0	9354.0	9989.5	10498.0	10315.2	9985.6	9608.2	9393.7	9310.3
9048.2	52.5°	8968.7	9342.1	9997.5	10644.9	10926.9	10744.2	10208.0	9787.0	9461.3	9425.5
9779.0	55°	9675.8	9870.4	10728.3	11224.8	11316.2	10930.9	10140.5	9544.7	9123.7	9020.4
10446.3	57.5°	10394.7	10621.1	11371.8	11800.8	11705.4	10827.6	9703.6	8782.1	8230.0	8083.0
11165.3	60°	11121.6	11399.6	12031.1	12424.4	11931.8	10116.6	8468.3	7280.7	6637.2	6506.1
12062.9	62.5°	11931.8	12293.3	12857.3	12996.3	11260.6	8710.6	6720.6	5254.9	4603.5	4385.1
12678.6	65°	12650.8	13020.2	13715.3	12877.2	9834.6	6498.2	4345.4	3002.8	2522.2	2347.4
13218.8	67.5°	13242.6	13659.7	14001.3	11395.6	7201.2	3805.2	2264.0	1580.9	1402.1	1338.6
13870.2	70°	13711.3	14406.4	12809.7	8376.9	4115.0	1854.9	1223.4	1040.7	1016.8	1000.9
13298.2	72.5°	13302.2	13210.8	9564.5	4833.9	1803.3	1020.8	885.8	857.9	854.0	857.9
11284.4	75°	10879.3	9703.6	5719.7	2101.2	905.6	738.8	734.8	722.9	742.8	742.8
5830.9	77.5°	5278.8	4615.4	2391.1	901.6	595.8	579.9	599.8	599.8	599.8	599.8
1314.7	80°	1223.4	1354.4	854.0	548.1	432.9	432.9	476.6	480.6	460.8	452.8
365.4	82.5°	417.1	556.1	468.7	345.6	286.0	321.7	361.5	369.4	305.8	309.8
186.7	85°	206.5	325.7	254.2	198.6	147.0	198.6	234.3	246.3	210.5	202.6
83.4	87.5°	95.3	143.0	95.3	67.5	51.6	71.5	67.5	55.6	31.8	31.8
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

