

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: P575090

Luminaire Tested: **EPH-VN-04-735-U-RW**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575090
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-04-735-U-RW
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

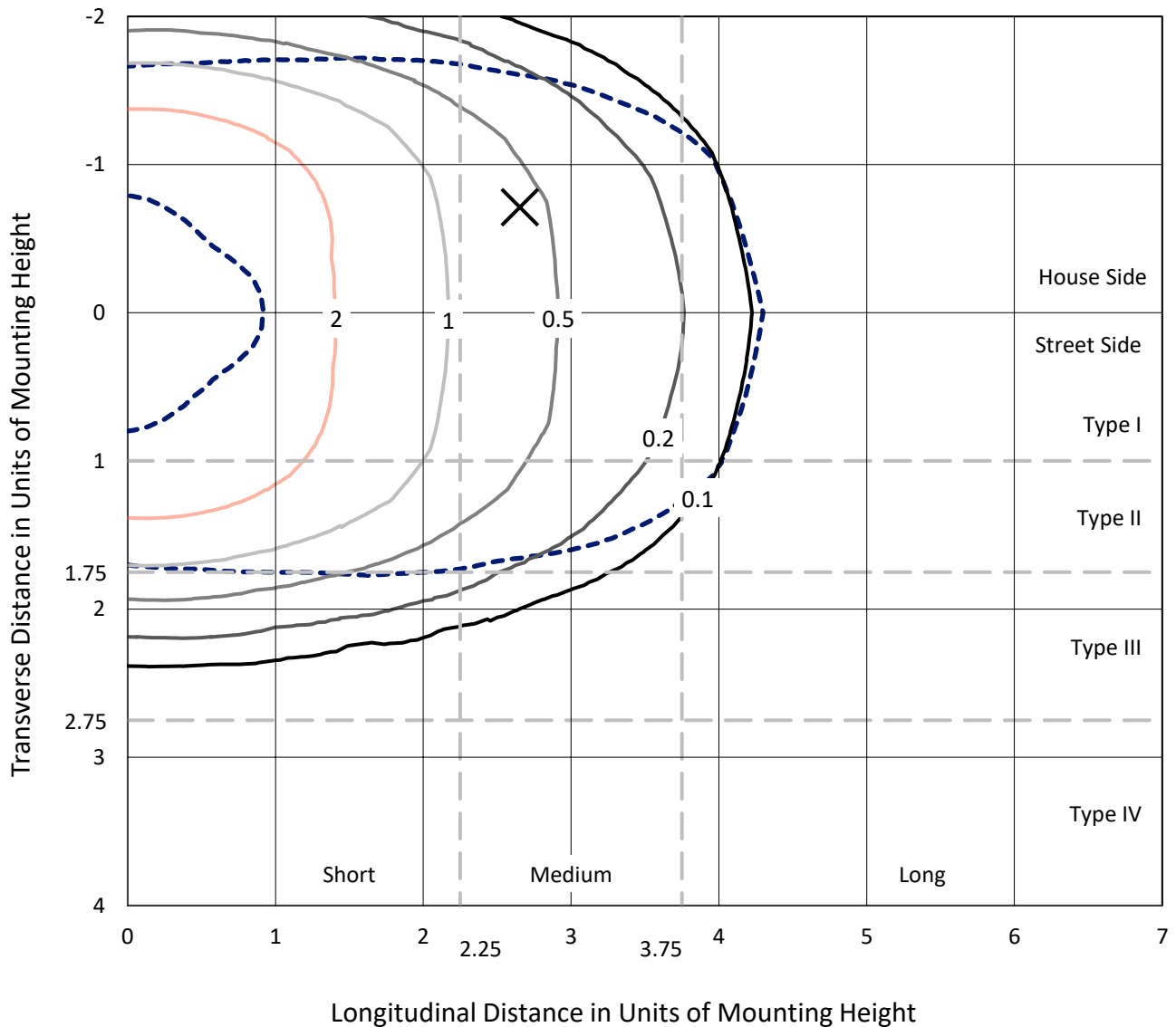
Lumens per Lamp: N/A
Luminaire Lumens: 35531.3 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

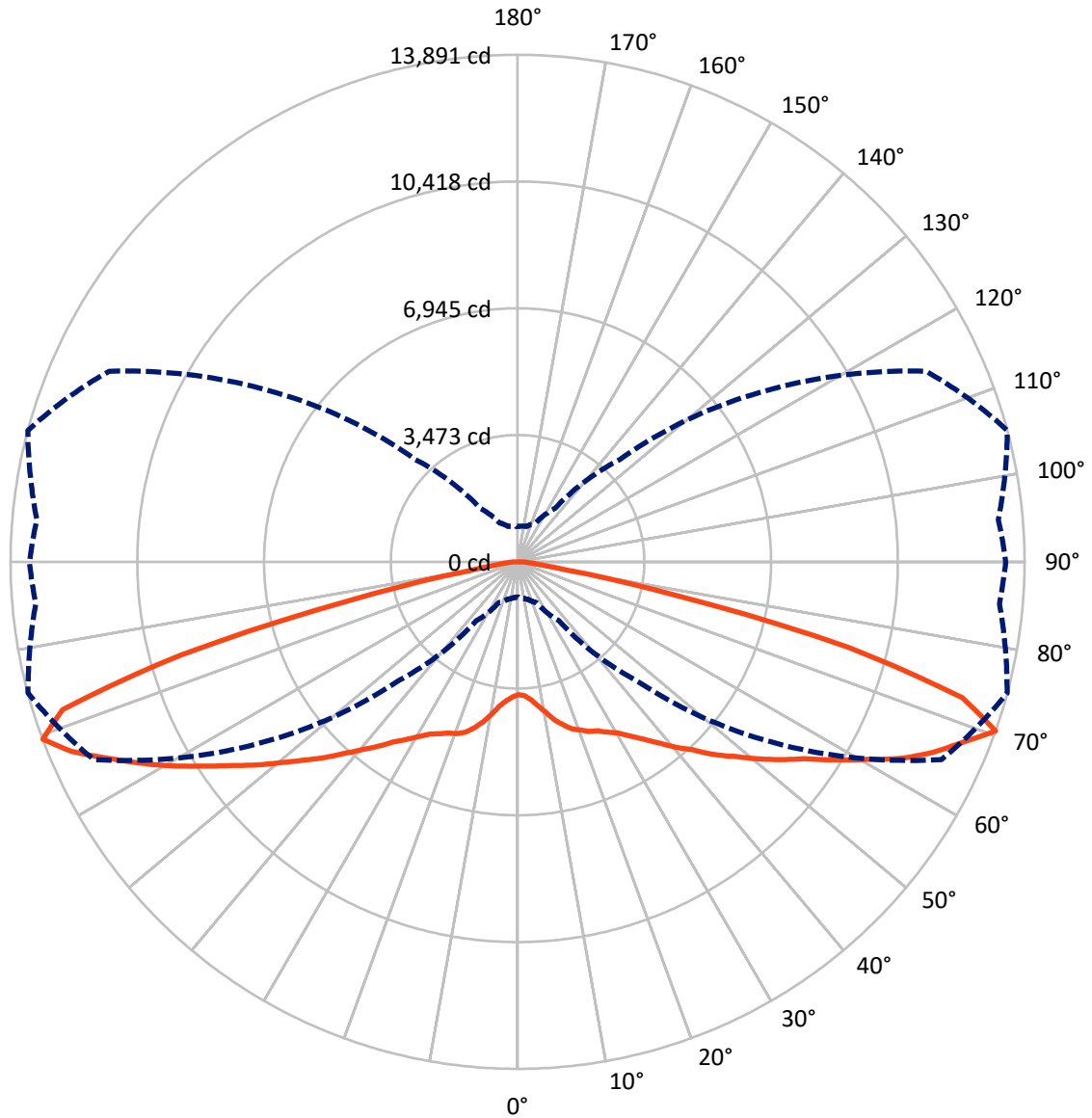
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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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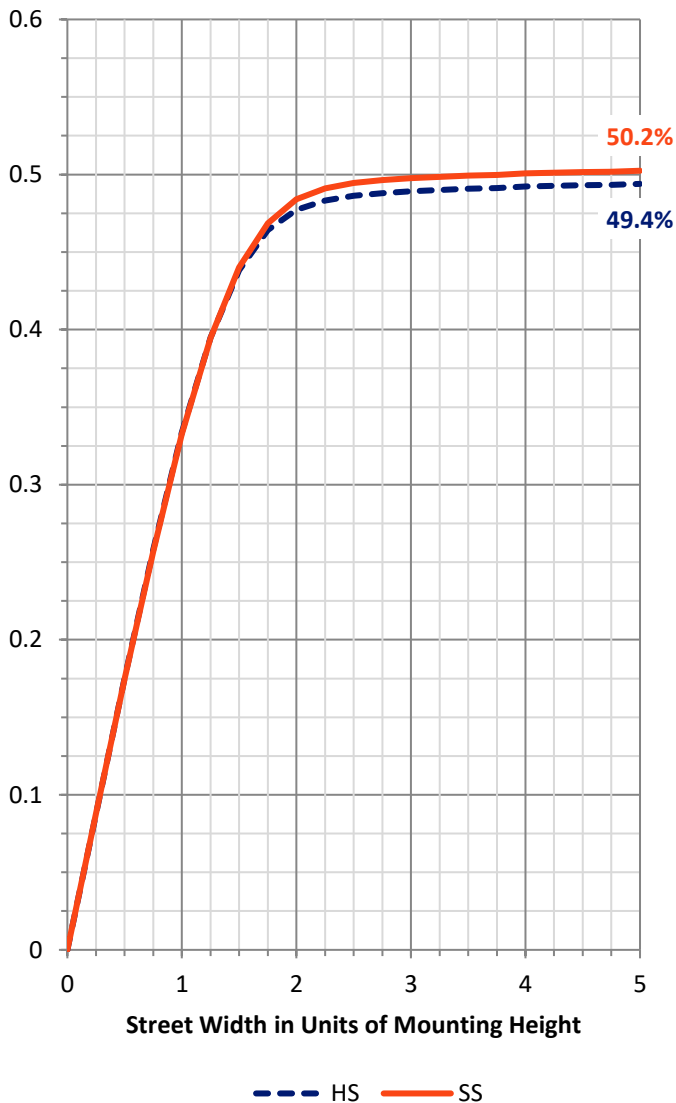
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17639.3	0.0	17639.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	17892.1	0.0	17892.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	35531.3	0.0	35531.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.1	1.0
10°-20°	1233.1	3.5
20°-30°	2387.6	6.7
30°-40°	4038.5	11.4
40°-50°	6442.5	18.1
50°-60°	8818.4	24.8
60°-70°	8312.0	23.4
70°-80°	3661.7	10.3
80°-90°	275.5	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°	35531.3	100.0
0°-180°	35531.3	100.0

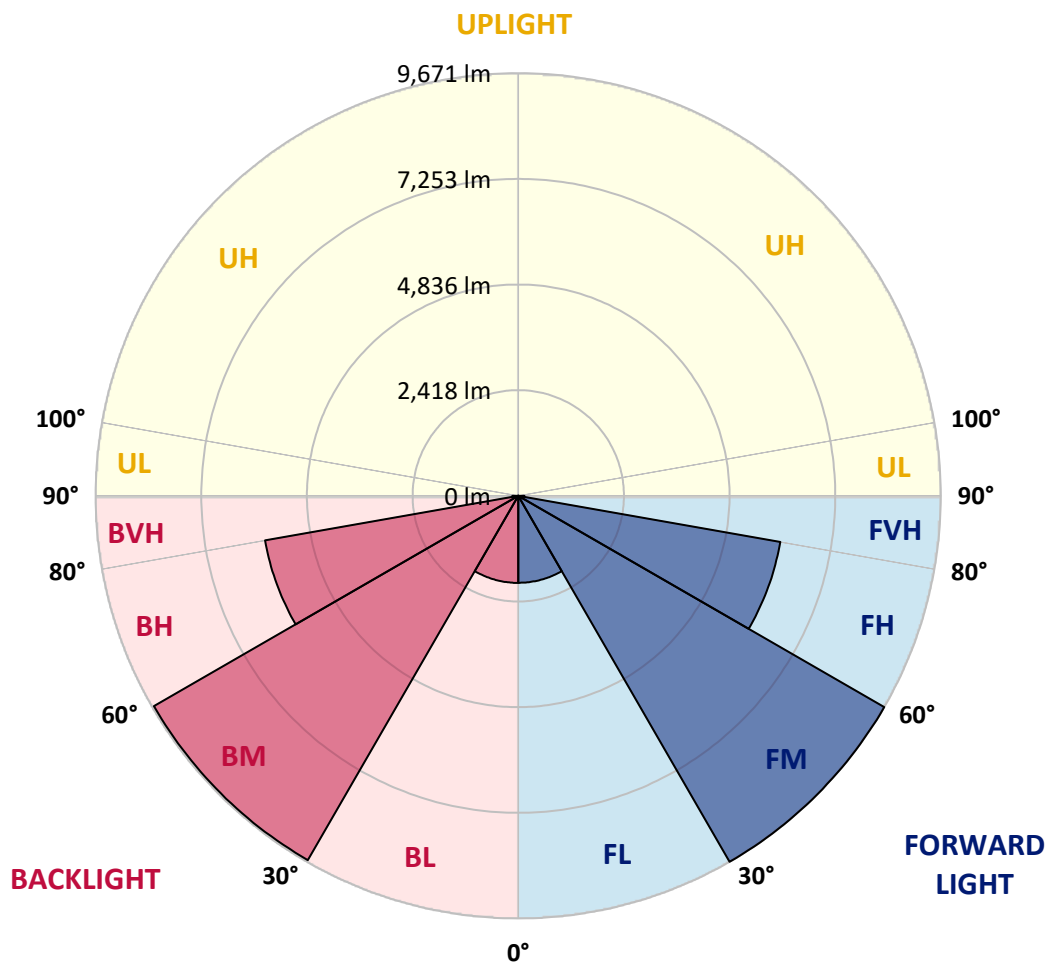


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1990.3	5.6			
FM (30°-60°)	9671.3	27.2			
FH (60°-80°)	6089.7	17.1			G3/7500
FVH (80°-90°)	140.7	0.4			G2/225
BL (0°-30°)	1992.5	5.6	B3/2500		
BM (30°-60°)	9628.1	27.1	B5		
BH (60°-80°)	5883.9	16.6	B5		G5
BVH (80°-90°)	134.8	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°	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4
2.5°	3615.4	3615.4	3611.6	3630.7	3649.9	3657.5	3672.8	3676.7	3699.7	3680.5
5°	3603.9	3600.1	3630.7	3676.7	3676.7	3726.5	3757.1	3799.2	3810.7	3833.7
7.5°	3684.3	3676.7	3661.4	3711.1	3753.3	3829.9	3872.0	3944.8	3971.6	4002.2
10°	3734.1	3734.1	3718.8	3806.9	3845.2	3948.6	4040.5	4113.3	4216.7	4251.2
12.5°	3741.8	3753.3	3799.2	3914.1	4021.4	4155.4	4224.3	4362.2	4465.6	4530.7
15°	3856.7	3833.7	3883.5	4040.5	4197.5	4316.3	4438.8	4538.4	4687.8	4772.0
17.5°	3960.1	3937.1	4029.0	4216.7	4377.5	4561.4	4668.6	4775.8	4883.1	4959.7
20°	4124.8	4143.9	4224.3	4427.3	4638.0	4798.8	4921.4	4940.5	4994.1	5105.2
22.5°	4327.7	4312.4	4480.9	4703.1	4932.9	5066.9	5135.8	5086.1	5059.3	5178.0
25°	4530.7	4576.7	4729.9	4936.7	5212.4	5392.5	5411.6	5273.7	5174.1	5216.3
27.5°	4841.0	4848.6	5009.5	5254.6	5534.2	5691.2	5679.7	5484.4	5292.9	5296.7
30°	5239.3	5201.0	5377.1	5599.3	5875.0	6016.7	6035.9	5756.3	5499.7	5423.1
32.5°	5622.2	5668.2	5821.4	6074.2	6277.1	6357.6	6315.4	6066.5	5733.3	5629.9
35°	6112.5	6104.8	6315.4	6529.9	6683.1	6698.4	6664.0	6300.1	5986.1	5852.0
37.5°	6637.2	6706.1	6844.0	7020.1	7181.0	7188.7	7001.0	6709.9	6323.1	6101.0
40°	7223.1	7299.7	7399.3	7655.9	7774.6	7652.1	7460.6	7066.1	6664.0	6468.6
42.5°	7740.2	7774.6	7977.6	8280.2	8337.6	8284.0	8000.6	7521.9	7054.6	6840.1
45°	8215.1	8261.0	8525.3	8797.2	8931.2	8839.3	8510.0	8054.2	7510.4	7326.5
47.5°	8651.7	8743.6	9000.2	9279.8	9486.6	9494.2	9088.3	8536.8	7962.3	7721.0
50°	8946.6	9080.6	9333.4	9651.3	9953.8	10072.5	9666.6	9073.0	8456.3	8199.7
52.5°	9107.4	9245.3	9498.1	9992.1	10329.1	10513.0	10321.5	9574.7	9034.7	8766.6
55°	8912.1	9004.0	9417.6	10110.8	10631.7	10934.3	10807.9	10267.9	9609.1	9390.8
57.5°	8081.0	8272.5	8781.9	9647.4	10624.0	11367.0	11355.6	10922.8	10271.7	10064.9
60°	6652.5	6813.3	7441.4	8651.7	10195.1	11543.2	11949.2	11558.5	11014.7	10773.4
62.5°	4695.4	4898.4	5626.1	6947.4	8931.2	11298.1	12630.9	12359.0	11742.4	11566.2
65°	2627.3	2749.8	3423.9	4618.8	6805.7	9950.0	12753.5	13190.1	12481.5	12213.4
67.5°	1405.6	1451.5	1765.6	2424.3	4163.1	7671.2	11516.4	13668.8	13282.0	12818.6
70°	965.1	980.4	1060.9	1240.9	1968.6	4588.2	8686.1	12814.7	13883.3	13251.3
72.5°	815.8	808.1	827.3	846.4	1030.2	2052.8	5097.6	9861.9	13105.8	12868.3
75°	708.5	704.7	712.4	693.2	716.2	903.8	2255.8	6146.9	9593.8	10708.3
77.5°	586.0	589.8	593.6	574.5	566.8	597.5	907.7	2700.1	4722.2	5212.4
80°	444.3	451.9	482.6	463.4	432.8	436.6	536.2	903.8	1355.8	1229.4
82.5°	302.6	306.4	371.5	348.5	325.5	294.9	344.7	467.2	528.5	402.1
85°	214.5	210.6	241.3	222.1	206.8	149.4	206.8	264.3	317.9	199.2
87.5°	49.8	49.8	99.6	80.4	76.6	61.3	80.4	103.4	137.9	88.1
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°
3638.4	0°	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4	3638.4
3718.8	2.5°	3707.3	3672.8	3672.8	3665.2	3634.5	3626.9	3600.1	3607.7	3588.6	3569.4
3841.4	5°	3837.5	3791.6	3791.6	3726.5	3665.2	3657.5	3626.9	3626.9	3596.2	3603.9
4036.7	7.5°	4017.5	3975.4	3906.5	3849.0	3764.8	3730.3	3672.8	3665.2	3657.5	3642.2
4255.0	10°	4232.0	4178.4	4109.4	3990.7	3921.8	3856.7	3799.2	3718.8	3699.7	3703.5
4553.7	12.5°	4523.1	4438.8	4289.4	4186.0	4098.0	4013.7	3929.4	3810.7	3783.9	3795.4
4825.6	15°	4729.9	4622.6	4473.3	4435.0	4316.3	4212.9	4075.0	3940.9	3895.0	3883.5
4963.5	17.5°	4898.4	4810.3	4722.2	4664.8	4569.0	4442.6	4251.2	4098.0	3994.5	3983.1
5086.1	20°	5036.3	4921.4	4902.2	4936.7	4818.0	4733.7	4500.1	4312.4	4174.6	4117.1
5204.8	22.5°	5120.5	5047.8	5101.4	5132.0	5124.4	4982.7	4741.4	4523.1	4350.7	4297.1
5204.8	25°	5212.4	5128.2	5319.7	5423.1	5449.9	5216.3	5028.6	4741.4	4572.9	4538.4
5304.4	27.5°	5258.4	5289.0	5511.2	5729.5	5710.3	5530.3	5277.6	5021.0	4886.9	4825.6
5442.2	30°	5392.5	5442.2	5779.3	6024.4	6028.2	5852.0	5660.5	5369.5	5220.1	5193.3
5641.4	32.5°	5633.7	5695.0	6055.0	6315.4	6361.4	6227.4	6035.9	5855.9	5702.7	5641.4
5798.4	35°	5817.6	5974.6	6380.6	6618.0	6740.6	6660.1	6552.9	6365.2	6204.4	6150.8
6166.1	37.5°	6081.8	6300.1	6690.8	7012.5	7150.4	7142.7	7062.3	6859.3	6725.2	6679.3
6499.3	40°	6461.0	6679.3	7035.5	7460.6	7717.2	7705.7	7659.7	7502.7	7303.6	7280.6
6855.5	42.5°	6863.1	7043.1	7506.5	7992.9	8360.6	8322.3	8199.7	8015.9	7878.0	7847.4
7253.8	45°	7253.8	7533.3	7962.3	8586.6	8862.3	8958.1	8812.5	8498.5	8341.4	8322.3
7717.2	47.5°	7744.0	7966.1	8502.3	9061.5	9471.3	9486.6	9237.6	8946.6	8659.3	8720.6
8172.9	50°	8180.6	8475.5	9019.3	9632.1	10122.3	9946.2	9628.3	9264.4	9057.6	8977.2
8724.4	52.5°	8647.8	9007.8	9639.8	10264.0	10536.0	10359.8	9842.8	9436.8	9122.7	9088.3
9429.1	55°	9329.6	9517.2	10344.5	10823.2	10911.3	10539.8	9777.6	9203.2	8797.2	8697.6
10072.5	57.5°	10022.8	10241.1	10964.9	11378.5	11286.6	10440.2	9356.4	8467.8	7935.5	7793.8
10765.8	60°	10723.6	10991.7	11600.7	11979.8	11504.9	9754.7	8165.3	7020.1	6399.7	6273.3
11631.3	62.5°	11504.9	11853.4	12397.3	12531.3	10857.7	8398.9	6480.1	5066.9	4438.8	4228.2
12224.9	65°	12198.1	12554.3	13224.5	12416.4	9482.7	6265.7	4189.9	2895.4	2432.0	2263.5
12745.8	67.5°	12768.8	13170.9	13500.3	10987.9	6943.5	3669.0	2183.0	1524.3	1351.9	1290.7
13373.9	70°	13220.7	13890.9	12351.3	8077.2	3967.7	1788.5	1179.6	1003.4	980.4	965.1
12822.4	72.5°	12826.2	12738.1	9222.3	4660.9	1738.8	984.3	854.1	827.3	823.4	827.3
10880.6	75°	10490.0	9356.4	5515.0	2026.0	873.2	712.4	708.5	697.0	716.2	716.2
5622.2	77.5°	5089.9	4450.3	2305.6	869.4	574.5	559.2	578.3	578.3	578.3	578.3
1267.7	80°	1179.6	1306.0	823.4	528.5	417.5	417.5	459.6	463.4	444.3	436.6
352.3	82.5°	402.1	536.2	451.9	333.2	275.8	310.2	348.5	356.2	294.9	298.7
180.0	85°	199.2	314.0	245.1	191.5	141.7	191.5	226.0	237.5	203.0	195.3
80.4	87.5°	91.9	137.9	91.9	65.1	49.8	68.9	65.1	53.6	30.6	30.6
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

