

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: P575084

Luminaire Tested: **EPH-VN-04-730-U-RW**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P575084  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-04-730-U-RW  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

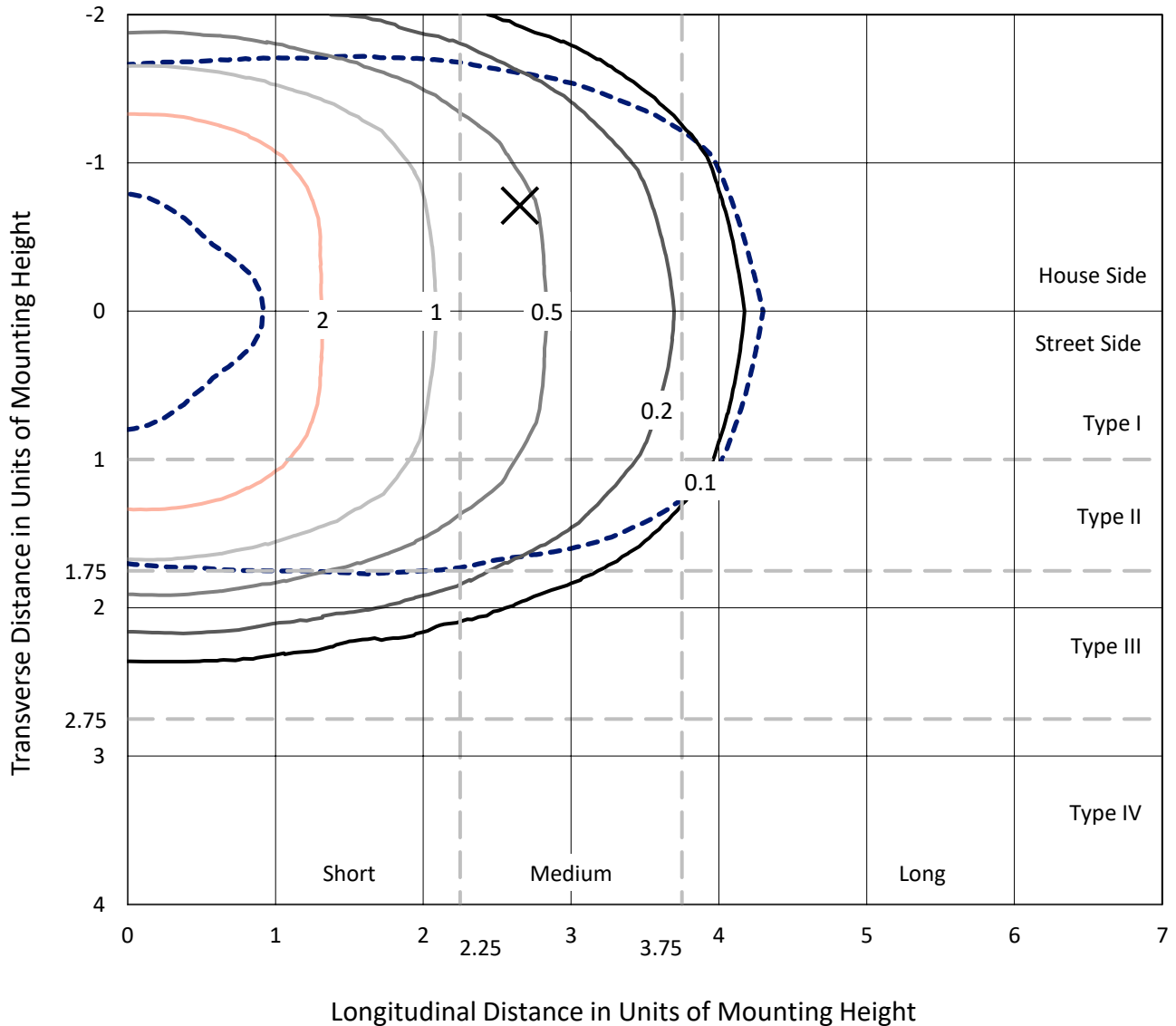
Lumens per Lamp: N/A  
Luminaire Lumens: 32804.2 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

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

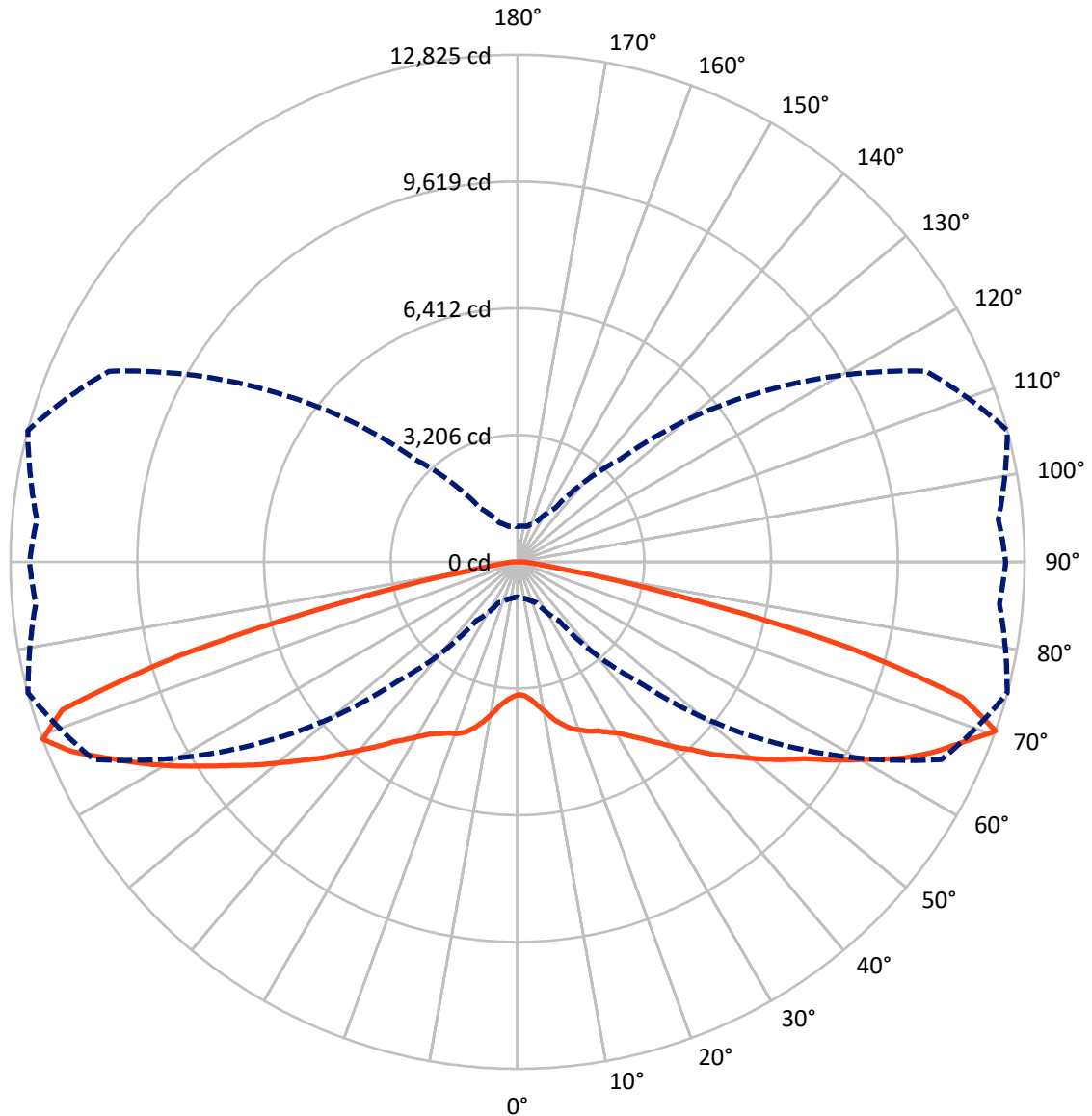
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 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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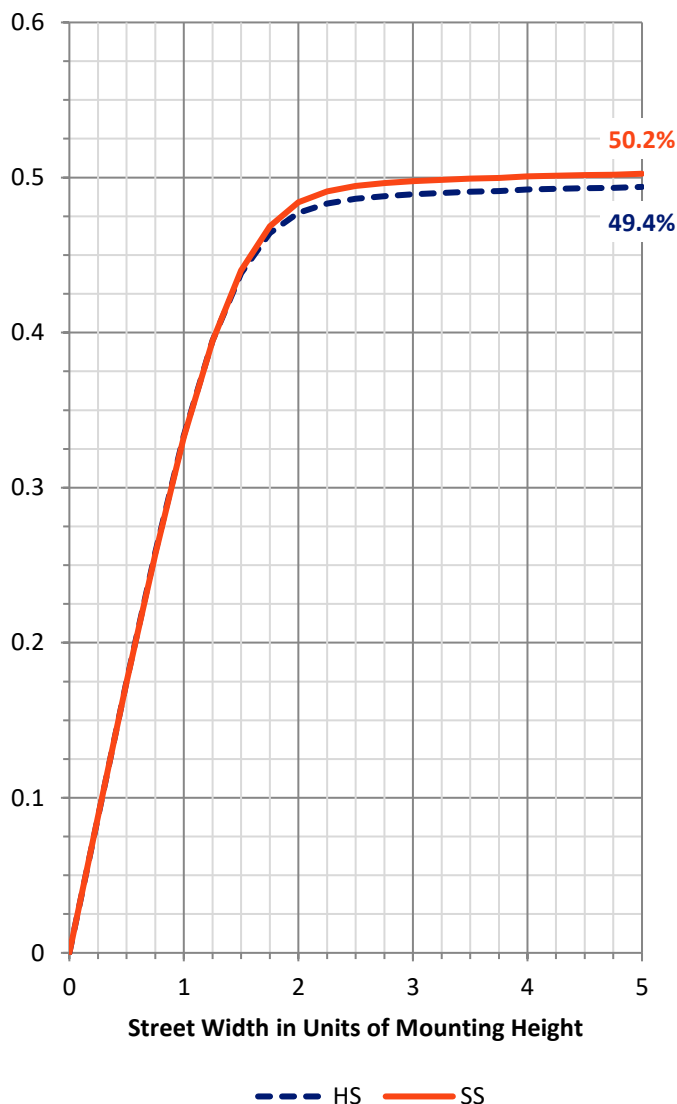
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16285.4	0.0	16285.4
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	16518.8	0.0	16518.8
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	32804.2	0.0	32804.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.3	1.0
10°-20°	1138.4	3.5
20°-30°	2204.4	6.7
30°-40°	3728.5	11.4
40°-50°	5948.1	18.1
50°-60°	8141.6	24.8
60°-70°	7674.0	23.4
70°-80°	3380.6	10.3
80°-90°	254.4	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°	32804.2	100.0
0°-180°	32804.2	100.0

**Coefficient of Utilization**

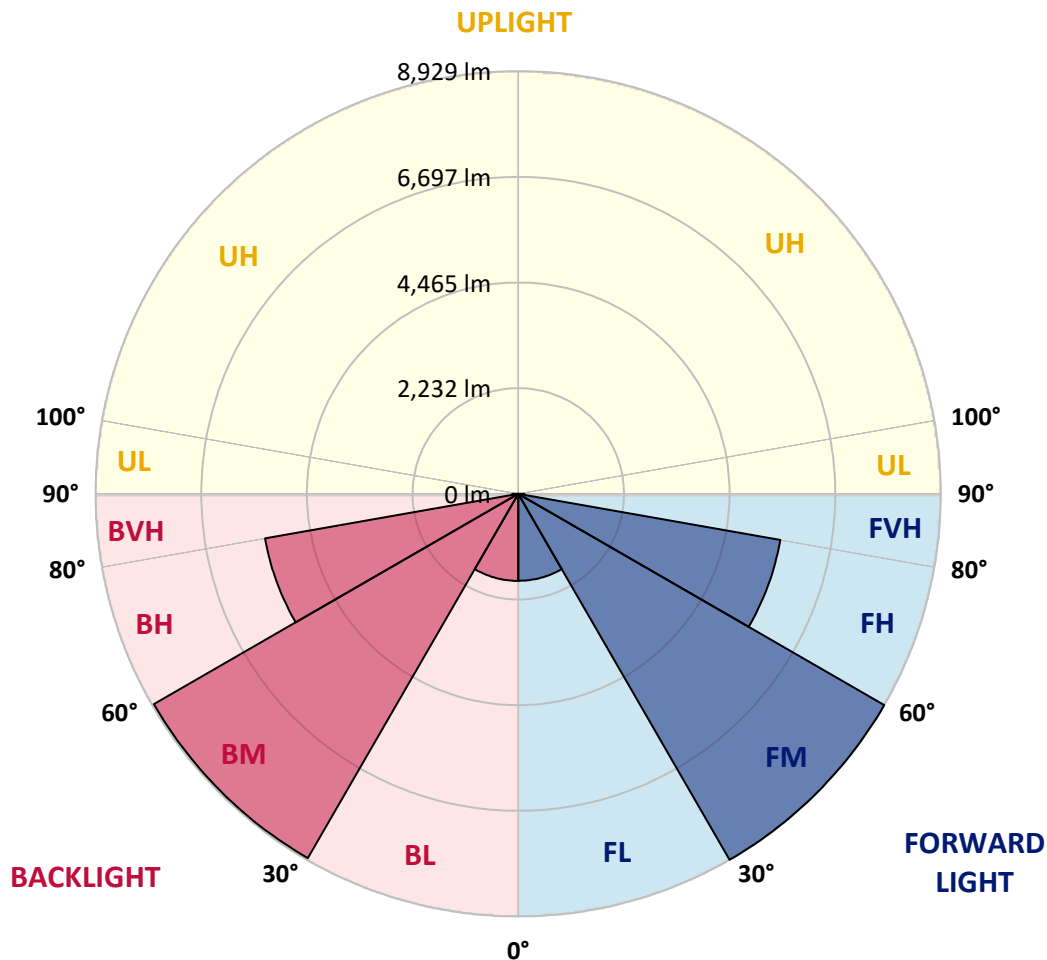


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1837.6	5.6			
FM (30°-60°)	8929.0	27.2			
FH (60°-80°)	5622.3	17.1			G3/7500
FVH (80°-90°)	129.9	0.4			G2/225
BL (0°-30°)	1839.6	5.6	B3/2500		
BM (30°-60°)	8889.1	27.1	B5		
BH (60°-80°)	5432.3	16.6	B5		G5
BVH (80°-90°)	124.4	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°	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1
2.5°	3337.9	3337.9	3334.4	3352.1	3369.7	3376.8	3390.9	3394.5	3415.7	3398.0
5°	3327.3	3323.8	3352.1	3394.5	3394.5	3440.4	3468.7	3507.6	3518.2	3539.5
7.5°	3401.6	3394.5	3380.3	3426.3	3465.2	3535.9	3574.8	3642.0	3666.7	3695.0
10°	3447.5	3447.5	3433.4	3514.7	3550.1	3645.5	3730.4	3797.6	3893.0	3924.9
12.5°	3454.6	3465.2	3507.6	3613.7	3712.7	3836.5	3900.1	4027.4	4122.9	4183.0
15°	3560.7	3539.5	3585.4	3730.4	3875.4	3985.0	4098.1	4190.1	4328.0	4405.8
17.5°	3656.1	3634.9	3719.8	3893.0	4041.6	4211.3	4310.3	4409.3	4508.3	4579.0
20°	3808.2	3825.9	3900.1	4087.5	4282.0	4430.5	4543.7	4561.3	4610.8	4713.4
22.5°	3995.6	3981.4	4137.0	4342.1	4554.3	4678.0	4741.7	4695.7	4670.9	4780.6
25°	4183.0	4225.4	4366.9	4557.8	4812.4	4978.6	4996.3	4869.0	4777.0	4815.9
27.5°	4469.4	4476.5	4625.0	4851.3	5109.4	5254.4	5243.8	5063.4	4886.6	4890.2
30°	4837.1	4801.8	4964.4	5169.5	5424.1	5554.9	5572.6	5314.5	5077.6	5006.9
32.5°	5190.7	5233.2	5374.6	5608.0	5795.4	5869.6	5830.7	5600.9	5293.3	5197.8
35°	5643.3	5636.3	5830.7	6028.7	6170.2	6184.3	6152.5	5816.6	5526.6	5402.9
37.5°	6127.7	6191.4	6318.7	6481.3	6629.8	6636.9	6463.7	6194.9	5837.8	5632.7
40°	6668.7	6739.5	6831.4	7068.3	7177.9	7064.8	6888.0	6523.8	6152.5	5972.2
42.5°	7146.1	7177.9	7365.3	7644.7	7697.7	7648.2	7386.5	6944.5	6513.2	6315.1
45°	7584.5	7627.0	7871.0	8122.0	8245.8	8160.9	7856.8	7436.0	6933.9	6764.2
47.5°	7987.6	8072.5	8309.4	8567.5	8758.5	8765.5	8390.7	7881.6	7351.2	7128.4
50°	8259.9	8383.7	8617.0	8910.5	9189.9	9299.5	8924.7	8376.6	7807.3	7570.4
52.5°	8408.4	8535.7	8769.1	9225.2	9536.4	9706.1	9529.3	8839.8	8341.2	8093.7
55°	8228.1	8312.9	8694.8	9334.8	9815.7	10095.0	9978.4	9479.8	8871.6	8670.1
57.5°	7460.8	7637.6	8107.9	8907.0	9808.6	10494.6	10484.0	10084.4	9483.3	9292.4
60°	6141.9	6290.4	6870.3	7987.6	9412.6	10657.3	11032.1	10671.4	10169.3	9946.5
62.5°	4335.0	4522.4	5194.3	6414.2	8245.8	10431.0	11661.5	11410.4	10841.1	10678.5
65°	2425.6	2538.8	3161.1	4264.3	6283.3	9186.3	11774.6	12177.7	11523.6	11276.0
67.5°	1297.7	1340.1	1630.1	2238.2	3843.5	7082.4	10632.5	12619.7	12262.6	11834.7
70°	891.1	905.2	979.4	1145.6	1817.5	4236.0	8019.5	11831.2	12817.7	12234.3
72.5°	753.2	746.1	763.8	781.4	951.2	1895.3	4706.3	9105.0	12099.9	11880.7
75°	654.1	650.6	657.7	640.0	661.2	834.5	2082.7	5675.1	8857.5	9886.4
77.5°	541.0	544.5	548.1	530.4	523.3	551.6	838.0	2492.8	4359.8	4812.4
80°	410.2	417.2	445.5	427.8	399.6	403.1	495.0	834.5	1251.7	1135.0
82.5°	279.3	282.9	343.0	321.8	300.6	272.3	318.2	431.4	488.0	371.3
85°	198.0	194.5	222.8	205.1	190.9	137.9	190.9	244.0	293.5	183.9
87.5°	46.0	46.0	91.9	74.3	70.7	56.6	74.3	95.5	127.3	81.3
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°
3359.1	0°	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1	3359.1
3433.4	2.5°	3422.8	3390.9	3390.9	3383.9	3355.6	3348.5	3323.8	3330.8	3313.2	3295.5
3546.5	5°	3543.0	3500.6	3500.6	3440.4	3383.9	3376.8	3348.5	3348.5	3320.2	3327.3
3726.9	7.5°	3709.2	3670.3	3606.6	3553.6	3475.8	3444.0	3390.9	3383.9	3376.8	3362.7
3928.4	10°	3907.2	3857.7	3794.0	3684.4	3620.8	3560.7	3507.6	3433.4	3415.7	3419.2
4204.2	12.5°	4175.9	4098.1	3960.2	3864.8	3783.4	3705.6	3627.9	3518.2	3493.5	3504.1
4455.3	15°	4366.9	4267.9	4130.0	4094.6	3985.0	3889.5	3762.2	3638.5	3596.0	3585.4
4582.5	17.5°	4522.4	4441.1	4359.8	4306.7	4218.3	4101.7	3924.9	3783.4	3688.0	3677.4
4695.7	20°	4649.7	4543.7	4526.0	4557.8	4448.2	4370.4	4154.7	3981.4	3854.2	3801.1
4805.3	22.5°	4727.5	4660.3	4709.8	4738.1	4731.1	4600.2	4377.5	4175.9	4016.8	3967.3
4805.3	25°	4812.4	4734.6	4911.4	5006.9	5031.6	4815.9	4642.7	4377.5	4221.9	4190.1
4897.2	27.5°	4854.8	4883.1	5088.2	5289.7	5272.1	5105.9	4872.5	4635.6	4511.8	4455.3
5024.5	30°	4978.6	5024.5	5335.7	5562.0	5565.5	5402.9	5226.1	4957.4	4819.5	4794.7
5208.4	32.5°	5201.3	5257.9	5590.3	5830.7	5873.2	5749.4	5572.6	5406.4	5265.0	5208.4
5353.4	35°	5371.1	5516.0	5890.8	6110.1	6223.2	6149.0	6050.0	5876.7	5728.2	5678.7
5692.8	37.5°	5615.0	5816.6	6177.2	6474.3	6601.6	6594.5	6520.2	6332.8	6209.1	6166.6
6000.5	40°	5965.1	6166.6	6495.5	6888.0	7124.9	7114.3	7071.8	6926.9	6743.0	6721.8
6329.3	42.5°	6336.4	6502.6	6930.4	7379.5	7718.9	7683.5	7570.4	7400.7	7273.4	7245.1
6697.0	45°	6697.0	6955.2	7351.2	7927.5	8182.1	8270.5	8136.1	7846.2	7701.2	7683.5
7124.9	47.5°	7149.6	7354.7	7849.7	8366.0	8744.3	8758.5	8528.6	8259.9	7994.7	8051.3
7545.6	50°	7552.7	7825.0	8327.1	8892.8	9345.4	9182.8	8889.3	8553.4	8362.4	8288.2
8054.8	52.5°	7984.1	8316.5	8899.9	9476.3	9727.3	9564.7	9087.3	8712.5	8422.6	8390.7
8705.4	55°	8613.5	8786.8	9550.5	9992.5	10073.8	9730.8	9027.2	8496.8	8122.0	8030.1
9299.5	57.5°	9253.5	9455.0	10123.3	10505.2	10420.3	9638.9	8638.2	7817.9	7326.4	7195.6
9939.5	60°	9900.6	10148.1	10710.3	11060.4	10621.9	9006.0	7538.6	6481.3	5908.5	5791.8
10738.6	62.5°	10621.9	10943.7	11445.8	11569.5	10024.3	7754.3	5982.8	4678.0	4098.1	3903.7
11286.6	65°	11261.9	11590.7	12209.5	11463.4	8754.9	5784.8	3868.3	2673.2	2245.3	2089.7
11767.5	67.5°	11788.7	12160.0	12464.1	10144.5	6410.6	3387.4	2015.5	1407.3	1248.2	1191.6
12347.4	70°	12206.0	12824.8	11403.3	7457.3	3663.2	1651.3	1089.1	926.4	905.2	891.1
11838.3	72.5°	11841.8	11760.5	8514.5	4303.2	1605.3	908.7	788.5	763.8	760.2	763.8
10045.5	75°	9684.9	8638.2	5091.7	1870.5	806.2	657.7	654.1	643.5	661.2	661.2
5190.7	77.5°	4699.2	4108.7	2128.6	802.7	530.4	516.2	533.9	533.9	533.9	533.9
1170.4	80°	1089.1	1205.7	760.2	488.0	385.4	385.4	424.3	427.8	410.2	403.1
325.3	82.5°	371.3	495.0	417.2	307.6	254.6	286.4	321.8	328.8	272.3	275.8
166.2	85°	183.9	289.9	226.3	176.8	130.8	176.8	208.6	219.2	187.4	180.3
74.3	87.5°	84.9	127.3	84.9	60.1	46.0	63.6	60.1	49.5	28.3	28.3
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

