

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: P575099

Luminaire Tested: **EPH-VN-07-740-U-RW**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575099
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-740-U-RW
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

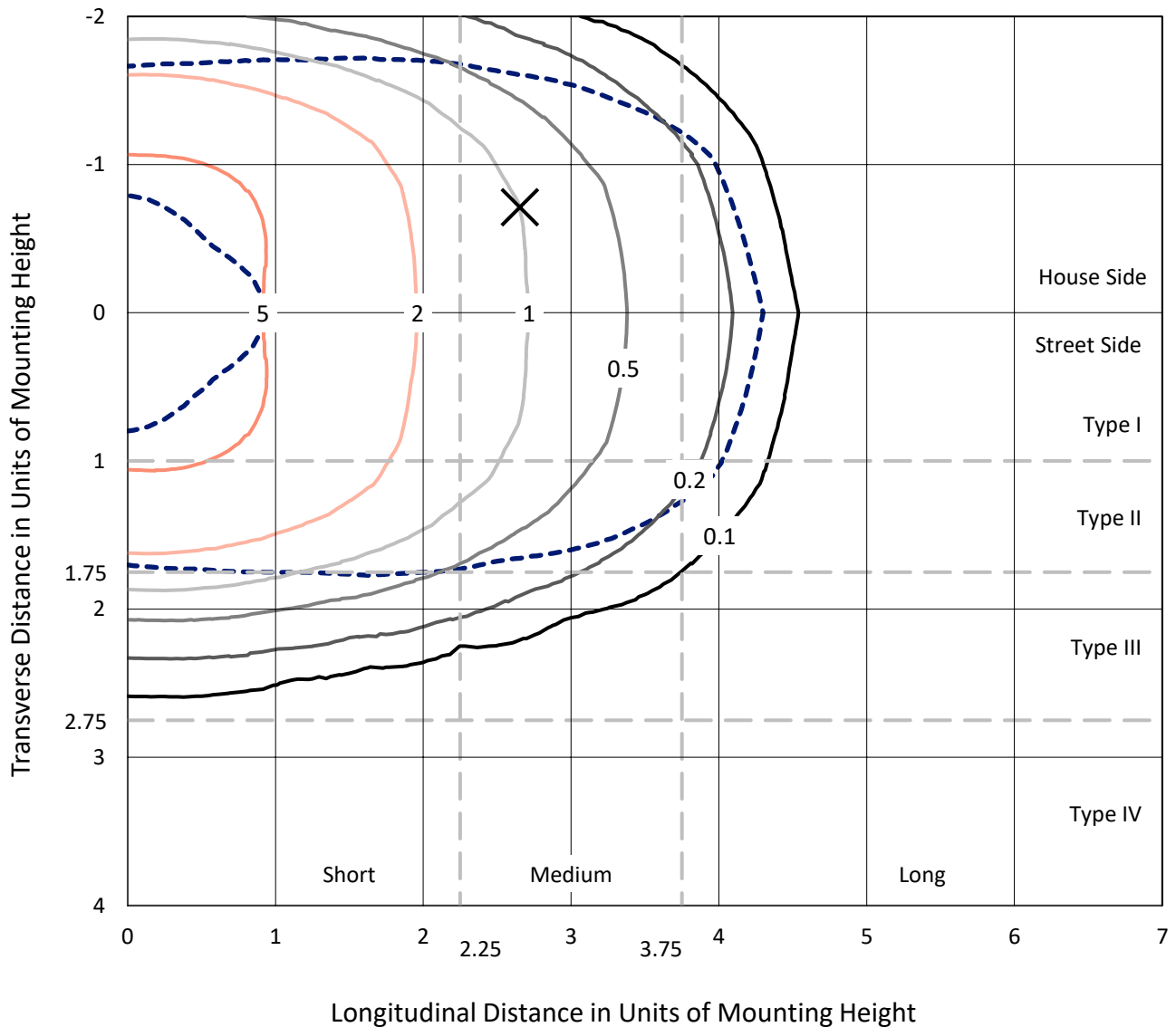
Lumens per Lamp: N/A
Luminaire Lumens: 58146.5 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 532.7
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

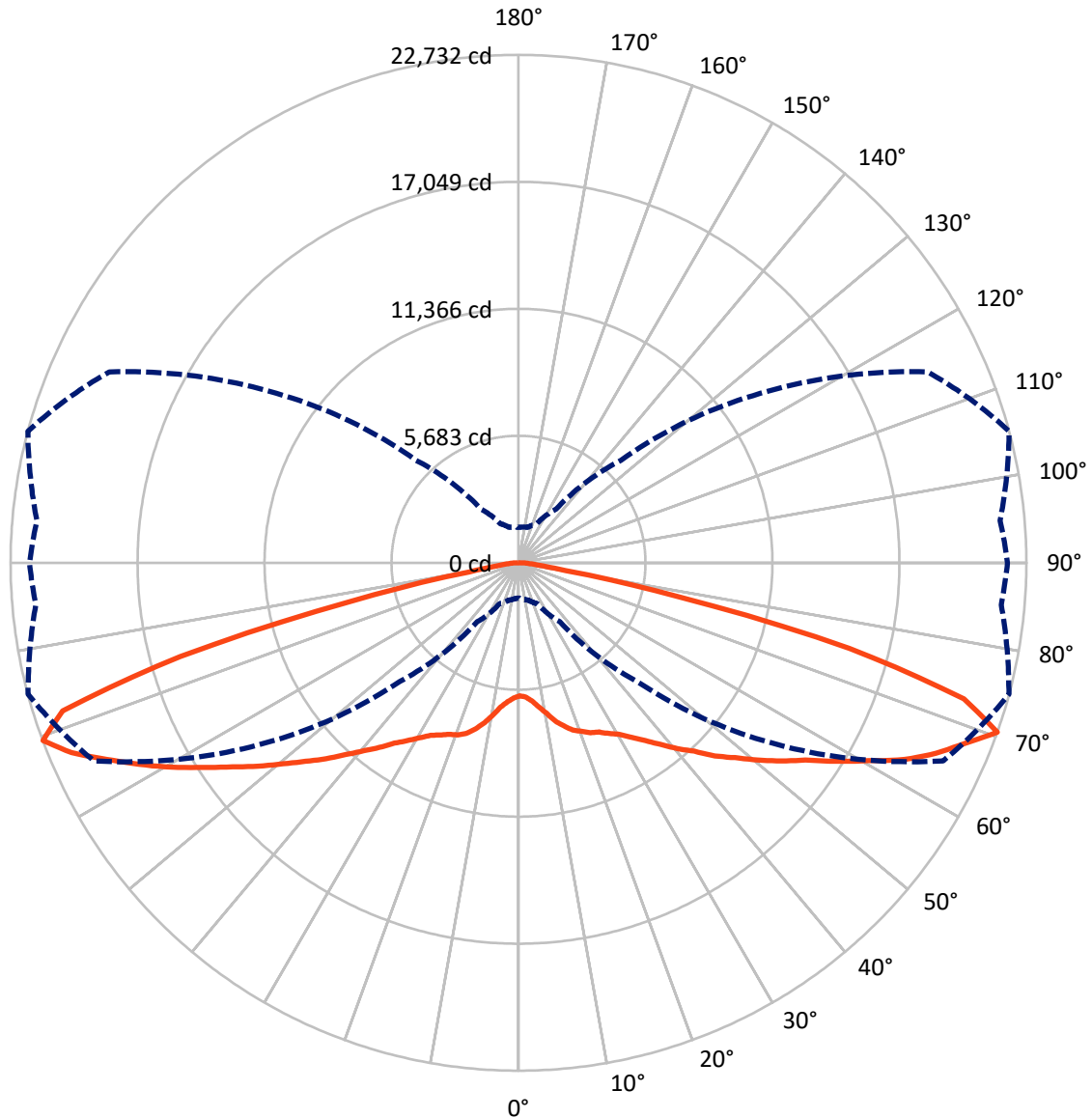
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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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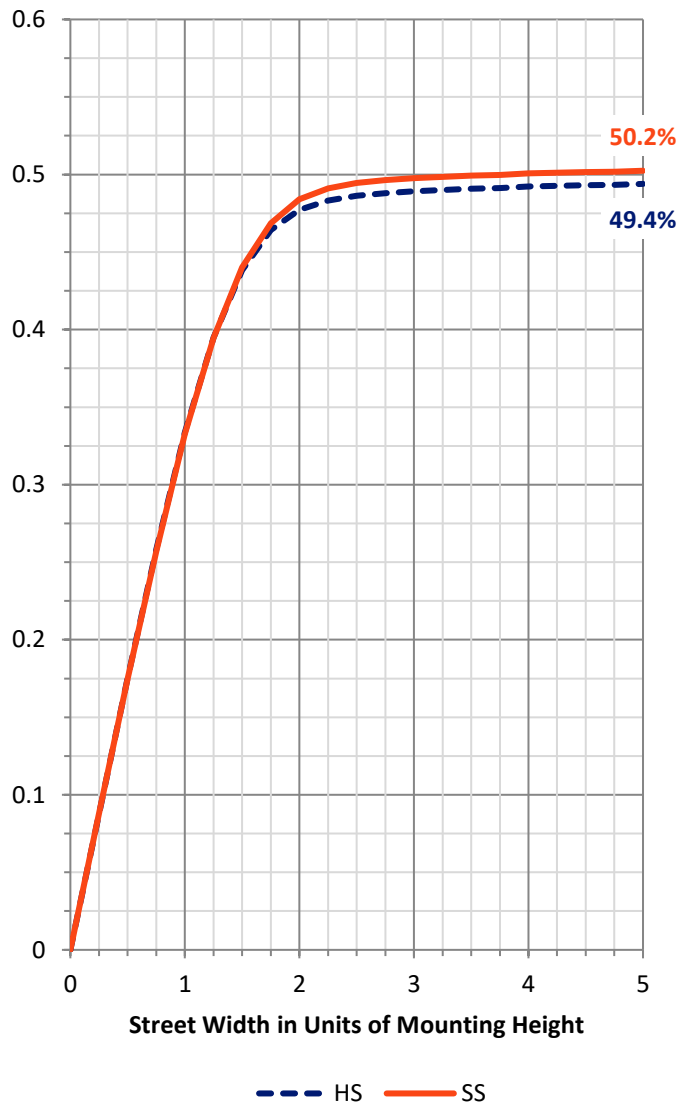
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28866.4	0.0	28866.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	29280.1	0.0	29280.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	58146.5	0.0	58146.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.6	1.0
10°-20°	2017.9	3.5
20°-30°	3907.3	6.7
30°-40°	6608.9	11.4
40°-50°	10543.1	18.1
50°-60°	14431.2	24.8
60°-70°	13602.4	23.4
70°-80°	5992.3	10.3
80°-90°	450.9	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°	58146.5	100.0
0°-180°	58146.5	100.0

Coefficient of Utilization

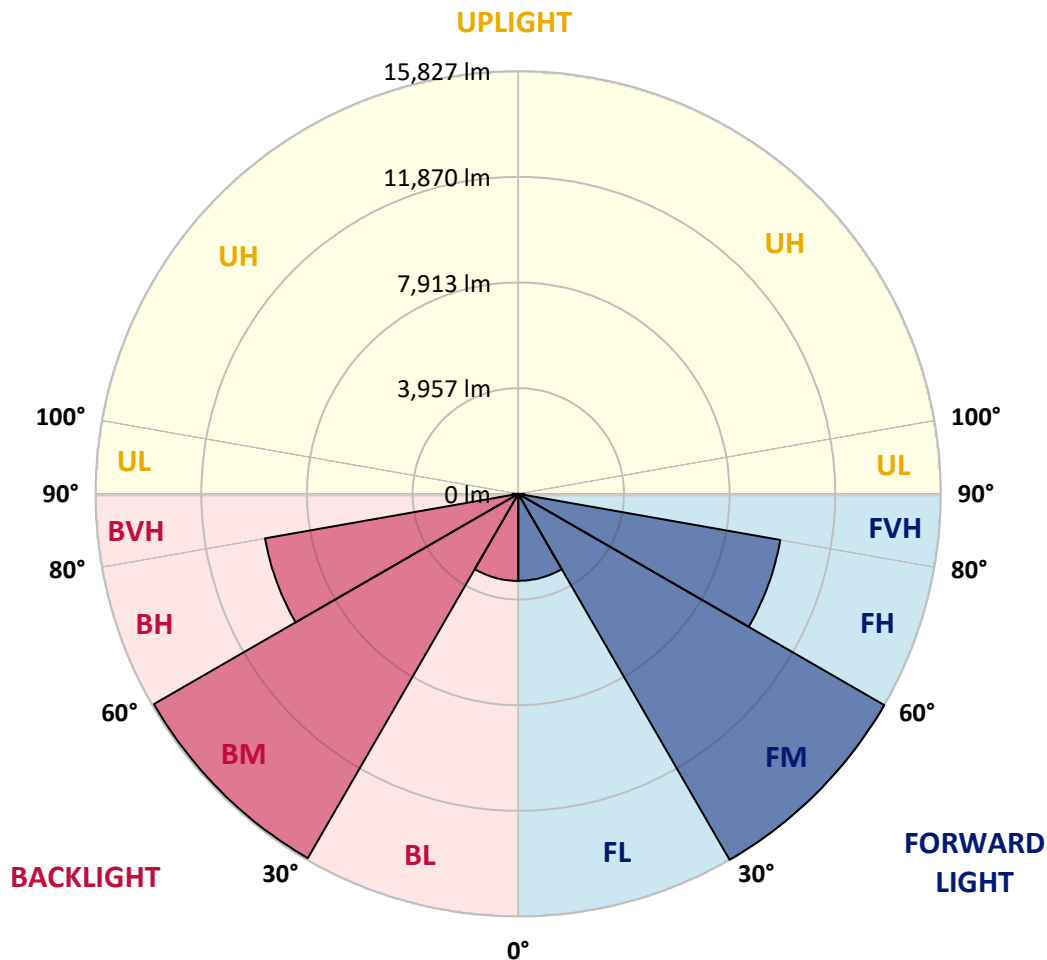


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3257.1	5.6			
FM (30°-60°)	15827.0	27.2			
FH (60°-80°)	9965.7	17.1			G4/12000
FVH (80°-90°)	230.3	0.4			G3/500
BL (0°-30°)	3260.7	5.6	B4/5000		
BM (30°-60°)	15756.2	27.1	B5		
BH (60°-80°)	9629.0	16.6	B5		G5
BVH (80°-90°)	220.6	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°	5954.1	5954.1	5954.1	5954.1	5954.1	5954.1	5954.1	5954.1	5954.1	5954.1
2.5°	5916.5	5916.5	5910.3	5941.6	5972.9	5985.5	6010.6	6016.8	6054.4	6023.1
5°	5897.7	5891.5	5941.6	6016.8	6016.8	6098.3	6148.4	6217.4	6236.2	6273.8
7.5°	6029.4	6016.8	5991.8	6073.2	6142.2	6267.5	6336.5	6455.5	6499.4	6549.6
10°	6110.8	6110.8	6085.8	6229.9	6292.6	6461.8	6612.2	6731.3	6900.5	6957.0
12.5°	6123.4	6142.2	6217.4	6405.4	6580.9	6800.3	6913.1	7138.7	7307.9	7414.5
15°	6311.4	6273.8	6355.3	6612.2	6869.2	7063.5	7264.1	7427.0	7671.4	7809.3
17.5°	6480.6	6443.0	6593.4	6900.5	7163.8	7464.6	7640.1	7815.6	7991.1	8116.4
20°	6750.1	6781.5	6913.1	7245.3	7590.0	7853.2	8053.8	8085.1	8172.8	8354.6
22.5°	7082.3	7057.2	7333.0	7696.5	8072.6	8291.9	8404.7	8323.3	8279.4	8473.7
25°	7414.5	7489.7	7740.4	8078.8	8530.1	8824.7	8856.0	8630.4	8467.4	8536.4
27.5°	7922.1	7934.7	8197.9	8599.0	9056.6	9313.5	9294.7	8975.1	8661.7	8668.0
30°	8574.0	8511.3	8799.6	9163.1	9614.4	9846.3	9877.6	9420.1	9000.2	8874.8
32.5°	9200.7	9275.9	9526.6	9940.3	10272.5	10404.1	10335.1	9927.8	9382.5	9213.3
35°	10003.0	9990.4	10335.1	10686.1	10936.8	10961.9	10905.5	10310.1	9796.1	9576.8
37.5°	10861.6	10974.4	11200.1	11488.4	11751.6	11764.1	11457.0	10980.7	10347.7	9984.2
40°	11820.5	11945.9	12108.9	12528.8	12723.1	12522.5	12209.1	11563.6	10905.5	10585.8
42.5°	12666.7	12723.1	13055.2	13550.4	13644.4	13556.7	13092.9	12309.4	11544.8	11193.8
45°	13443.8	13519.0	13951.5	14396.5	14615.9	14465.4	13926.4	13180.6	12290.6	11989.8
47.5°	14158.3	14308.8	14728.7	15186.2	15524.7	15537.2	14872.8	13970.3	13030.2	12635.3
50°	14640.9	14860.3	15274.0	15794.2	16289.3	16483.6	15819.2	14847.8	13838.7	13418.8
52.5°	14904.2	15129.8	15543.5	16352.0	16903.5	17204.3	16891.0	15668.8	14785.1	14346.4
55°	14584.5	14734.9	15411.8	16546.3	17398.6	17893.8	17686.9	16803.2	15725.2	15368.0
57.5°	13224.5	13537.8	14371.4	15787.9	17386.1	18602.0	18583.2	17875.0	16809.5	16471.0
60°	10886.7	11149.9	12177.8	14158.3	16684.1	18890.3	19554.7	18915.4	18025.4	17630.5
62.5°	7684.0	8016.2	9207.0	11369.3	14615.9	18489.2	20670.3	20225.3	19216.2	18927.9
65°	4299.5	4500.1	5603.2	7558.6	11137.4	16283.0	20870.9	21585.3	20425.9	19987.1
67.5°	2300.2	2375.4	2889.3	3967.3	6812.8	12553.8	18846.4	22368.8	21735.8	20977.4
70°	1579.4	1604.5	1736.1	2030.7	3221.5	7508.5	14214.7	20971.1	22719.8	21685.6
72.5°	1335.0	1322.4	1353.8	1385.1	1686.0	3359.4	8342.1	16138.9	21447.5	21058.9
75°	1159.5	1153.2	1165.8	1134.4	1172.0	1479.1	3691.6	10059.4	15700.1	17524.0
77.5°	958.9	965.2	971.5	940.1	927.6	977.7	1485.4	4418.6	7727.9	8530.1
80°	727.0	739.6	789.7	758.4	708.2	714.5	877.5	1479.1	2218.7	2011.9
82.5°	495.1	501.4	607.9	570.3	532.7	482.6	564.1	764.6	864.9	658.1
85°	351.0	344.7	394.9	363.5	338.4	244.4	338.4	432.5	520.2	325.9
87.5°	81.5	81.5	163.0	131.6	125.4	100.3	131.6	169.2	225.6	144.2
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°
5954.1	0°	5954.1	5954.1	5954.1	5954.1	5954.1	5954.1	5954.1	5954.1	5954.1	5954.1
6085.8	2.5°	6067.0	6010.6	6010.6	5998.0	5947.9	5935.3	5891.5	5904.0	5872.7	5841.3
6286.3	5°	6280.1	6204.8	6204.8	6098.3	5998.0	5985.5	5935.3	5935.3	5885.2	5897.7
6606.0	7.5°	6574.6	6505.7	6392.9	6298.9	6161.0	6104.6	6010.6	5998.0	5985.5	5960.4
6963.2	10°	6925.6	6837.9	6725.1	6530.8	6417.9	6311.4	6217.4	6085.8	6054.4	6060.7
7452.1	12.5°	7401.9	7264.1	7019.6	6850.4	6706.2	6568.4	6430.5	6236.2	6192.3	6211.1
7897.1	15°	7740.4	7564.9	7320.5	7257.8	7063.5	6894.3	6668.6	6449.3	6374.1	6355.3
8122.7	17.5°	8016.2	7872.0	7727.9	7633.8	7477.2	7270.3	6957.0	6706.2	6537.0	6518.2
8323.3	20°	8241.8	8053.8	8022.4	8078.8	7884.5	7746.7	7364.3	7057.2	6831.6	6737.6
8517.6	22.5°	8379.7	8260.6	8348.3	8398.5	8385.9	8154.0	7759.2	7401.9	7119.9	7032.2
8517.6	25°	8530.1	8392.2	8705.6	8874.8	8918.7	8536.4	8229.3	7759.2	7483.4	7427.0
8680.5	27.5°	8605.3	8655.4	9019.0	9376.2	9344.9	9050.3	8636.6	8216.7	7997.4	7897.1
8906.1	30°	8824.7	8906.1	9457.7	9858.8	9865.1	9576.8	9263.4	8787.1	8542.6	8498.8
9232.1	32.5°	9219.5	9319.8	9909.0	10335.1	10410.4	10191.0	9877.6	9583.0	9332.3	9232.1
9489.0	35°	9520.4	9777.3	10441.7	10830.3	11030.8	10899.2	10723.7	10416.6	10153.4	10065.6
10090.7	37.5°	9952.8	10310.1	10949.4	11475.8	11701.5	11688.9	11557.3	11225.1	11005.8	10930.6
10636.0	40°	10573.3	10930.6	11513.4	12209.1	12629.1	12610.3	12535.0	12278.1	11952.2	11914.6
11218.9	42.5°	11231.4	11526.0	12284.3	13080.3	13682.0	13619.3	13418.8	13117.9	12892.3	12842.2
11870.7	45°	11870.7	12328.2	13030.2	14051.8	14503.0	14659.7	14421.6	13907.6	13650.7	13619.3
12629.1	47.5°	12672.9	13036.4	13913.9	14829.0	15499.6	15524.7	15117.3	14640.9	14170.9	14271.1
13374.9	50°	13387.4	13870.0	14760.0	15762.8	16565.1	16276.8	15756.6	15161.1	14822.7	14691.1
14277.4	52.5°	14152.1	14741.2	15775.4	16797.0	17242.0	16953.6	16107.5	15443.2	14929.2	14872.8
15430.6	55°	15267.7	15574.8	16928.6	17712.0	17856.2	17248.2	16001.0	15060.9	14396.5	14233.5
16483.6	57.5°	16402.1	16759.4	17943.9	18620.8	18470.4	17085.3	15311.6	13857.5	12986.3	12754.4
17618.0	60°	17549.1	17987.8	18984.3	19604.8	18827.6	15963.4	13362.4	11488.4	10473.0	10266.2
19034.5	62.5°	18827.6	19398.0	20288.0	20507.3	17768.4	13744.7	10604.6	8291.9	7264.1	6919.3
20005.9	65°	19962.1	20544.9	21641.8	20319.3	15518.4	10253.7	6856.7	4738.2	3979.9	3704.1
20858.3	67.5°	20895.9	21554.0	22093.0	17981.5	11363.0	6004.3	3572.5	2494.5	2212.4	2112.2
21886.2	70°	21635.5	22732.3	20212.8	13218.2	6493.2	2926.9	1930.4	1642.1	1604.5	1579.4
20983.7	72.5°	20989.9	20845.8	15092.2	7627.6	2845.5	1610.8	1397.7	1353.8	1347.5	1353.8
17806.0	75°	17166.7	15311.6	9025.2	3315.5	1429.0	1165.8	1159.5	1140.7	1172.0	1172.0
9200.7	77.5°	8329.5	7282.9	3773.0	1422.7	940.1	915.1	946.4	946.4	946.4	946.4
2074.6	80°	1930.4	2137.2	1347.5	864.9	683.2	683.2	752.1	758.4	727.0	714.5
576.6	82.5°	658.1	877.5	739.6	545.3	451.3	507.7	570.3	582.9	482.6	488.9
294.6	85°	325.9	513.9	401.1	313.4	231.9	313.4	369.8	388.6	332.2	319.6
131.6	87.5°	150.4	225.6	150.4	106.5	81.5	112.8	106.5	87.7	50.1	50.1
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

