

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: McGRAW-EDISON

Report Number: P387058

Luminaire Tested: **GWC-SA2D-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P387058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2D-735-U-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12995.6 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

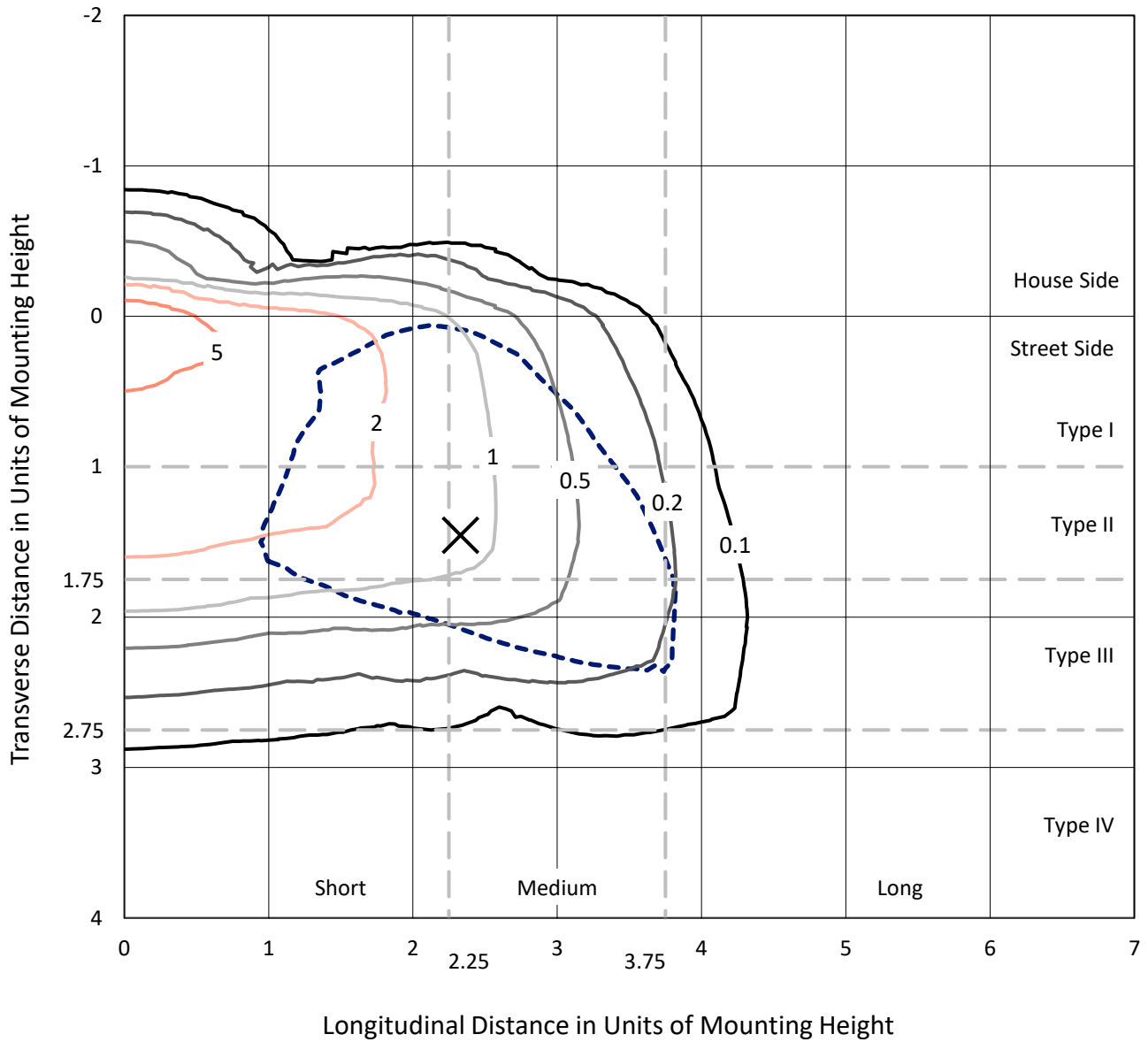
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

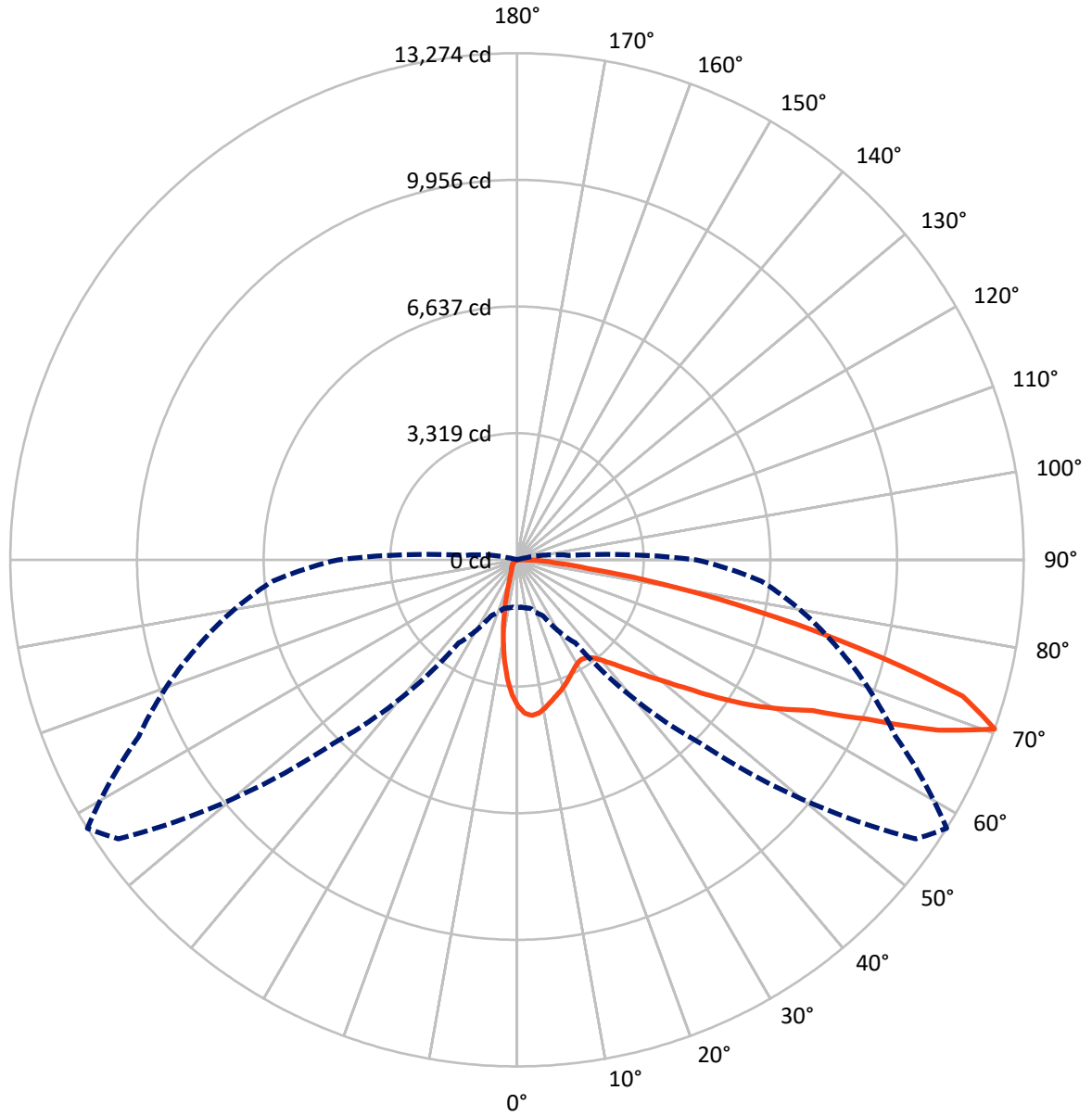
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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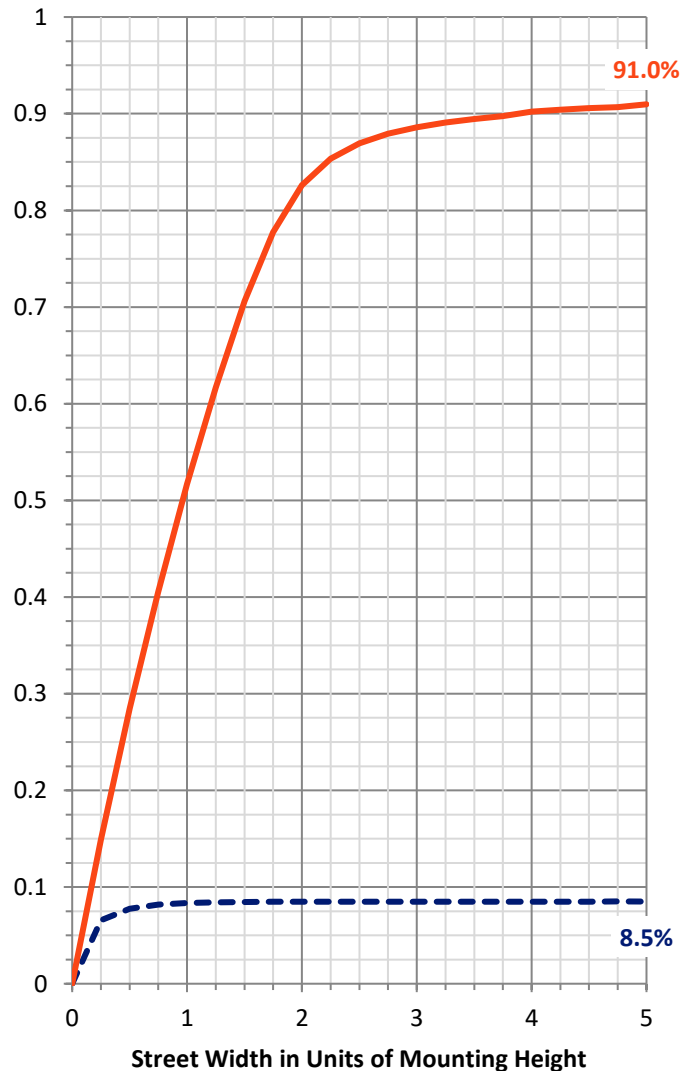
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1112.1	0.0	1112.1
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	11883.4	0.0	11883.4
	% Fixture	91.4	0.0	91.4
Total	Lumens	12995.6	0.0	12995.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.9	2.4
10°-20°	658.8	5.1
20°-30°	866.1	6.7
30°-40°	1147.1	8.8
40°-50°	1714.6	13.2
50°-60°	2746.7	21.1
60°-70°	3462.2	26.6
70°-80°	1867.5	14.4
80°-90°	218.6	1.7
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°	12995.6	100.0
0°-180°	12995.6	100.0



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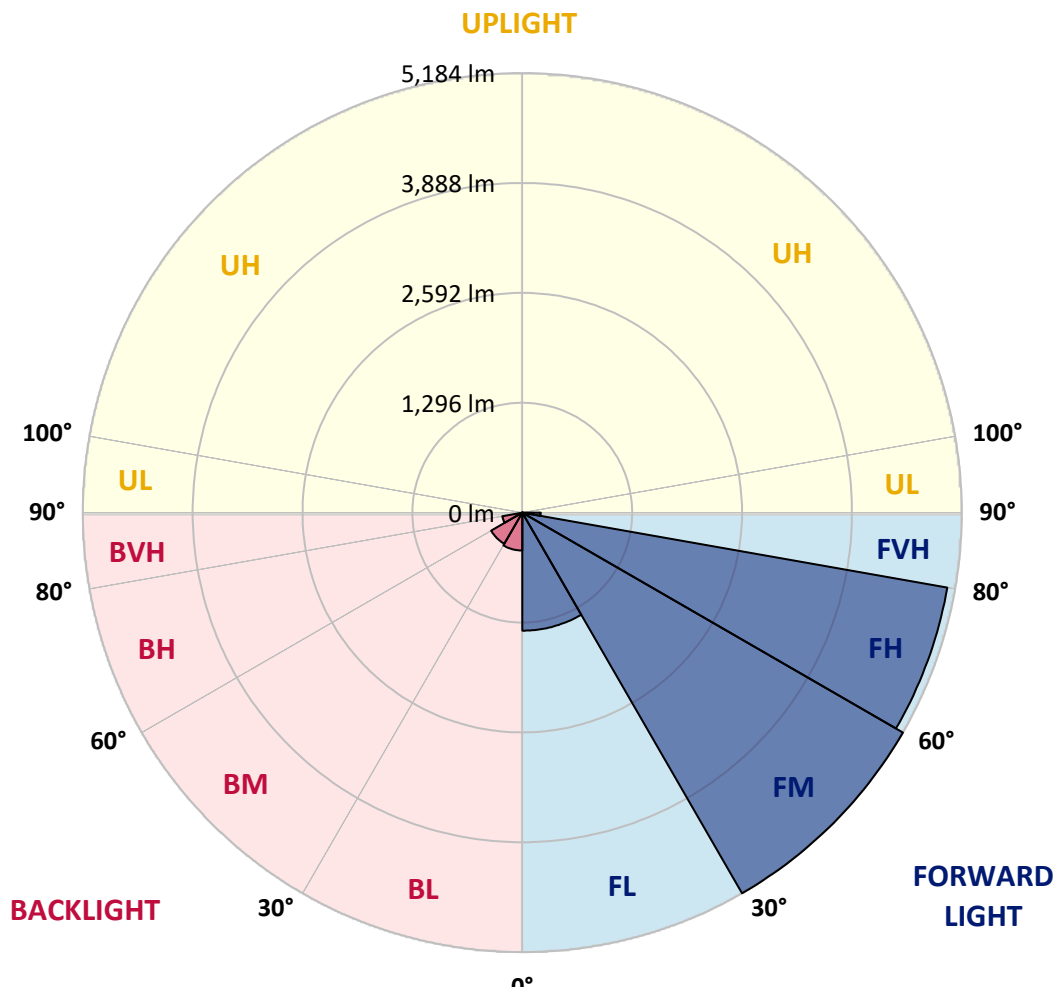
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.1	10.7			
FM (30°-60°)	5184.1	39.9			
FH (60°-80°)	5090.5	39.2			G3/7500
FVH (80°-90°)	216.7	1.7			G2/225
BL (0°-30°)	446.8	3.4	B1/500		
BM (30°-60°)	424.3	3.3	B1/1000		
BH (60°-80°)	239.2	1.8	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8
2.5°	4157.1	4146.9	4143.1	4136.6	4111.7	4087.4	4039.3	4025.8	3995.5	3923.7	3847.5
5°	4160.4	4159.8	4171.2	4168.5	4159.8	4148.5	4113.9	4096.0	4044.7	3942.1	3802.7
7.5°	3959.9	3970.2	3995.5	4016.1	4039.9	4070.7	4075.0	4057.7	4015.5	3904.8	3719.9
10°	3690.8	3706.9	3742.6	3783.1	3845.3	3906.9	3962.1	3959.9	3945.3	3836.1	3620.5
12.5°	3421.1	3440.1	3481.1	3541.0	3629.2	3729.7	3828.0	3841.6	3865.9	3774.5	3528.6
15°	3185.0	3201.2	3241.8	3315.2	3424.4	3559.5	3703.7	3728.5	3791.3	3726.4	3451.9
17.5°	2984.5	2994.8	3024.5	3106.1	3232.5	3396.3	3583.8	3632.4	3725.9	3688.6	3385.5
20°	2844.6	2846.2	2865.6	2922.9	3049.4	3232.5	3459.5	3529.2	3656.7	3656.2	3316.8
22.5°	2775.3	2770.0	2773.7	2806.7	2899.6	3076.3	3335.2	3417.9	3594.6	3628.6	3247.1
25°	2762.4	2758.1	2747.3	2751.6	2807.8	2939.6	3209.8	3305.4	3540.0	3611.9	3186.6
27.5°	2803.0	2807.3	2788.9	2769.4	2773.7	2851.1	3098.5	3209.3	3495.7	3611.9	3143.9
30°	2884.5	2886.7	2873.1	2847.8	2813.8	2826.2	3021.3	3132.0	3473.5	3636.8	3116.9
32.5°	2974.8	2986.6	2985.0	2964.5	2915.9	2865.6	3002.9	3103.9	3471.9	3691.8	3114.2
35°	3086.7	3100.1	3122.8	3118.5	3067.7	2985.0	3065.5	3145.0	3503.8	3782.7	3143.4
37.5°	3205.5	3226.1	3274.6	3297.9	3265.0	3171.5	3206.1	3262.8	3589.1	3929.6	3217.4
40°	3320.6	3343.9	3432.5	3523.8	3499.0	3402.8	3418.9	3464.4	3741.0	4140.9	3357.9
42.5°	3433.6	3468.1	3598.3	3748.6	3778.3	3701.6	3710.2	3746.4	3966.4	4431.6	3587.5
45°	3568.7	3607.6	3800.5	3985.8	4065.2	4031.8	4068.5	4092.3	4260.9	4815.8	3897.2
47.5°	3767.0	3811.8	4048.5	4259.8	4399.2	4420.8	4494.8	4510.5	4633.2	5263.2	4300.8
50°	4153.9	4166.3	4380.3	4572.1	4773.2	4902.8	4987.1	4999.0	5083.8	5752.3	4805.0
52.5°	4640.8	4648.9	4769.9	4898.5	5127.1	5391.8	5589.1	5605.8	5623.7	6228.9	5302.7
55°	5124.4	5123.3	5203.3	5278.9	5540.5	5925.2	6353.2	6363.5	6235.4	6681.3	5683.1
57.5°	5426.5	5455.6	5577.2	5674.5	6039.7	6533.1	7127.0	7164.9	6877.9	7016.2	6059.3
60°	5330.3	5344.3	5614.0	5973.9	6661.7	7397.2	7910.0	7919.7	7361.0	7350.8	6534.8
62.5°	4541.3	4548.9	4972.5	5714.5	6976.8	8518.0	8854.6	8696.3	7916.6	7814.9	7103.8
65°	3112.6	3161.7	3515.7	4432.7	6398.0	9221.0	10316.9	10054.8	8763.3	8483.9	7618.2
67.5°	1832.9	1822.7	1997.8	2673.2	4699.1	8754.1	12166.6	11906.1	9918.0	8931.9	7467.4
70°	1252.0	1245.1	1312.1	1618.4	2652.7	6790.9	12748.5	13274.3	10937.7	8630.3	6426.7
72.5°	893.7	897.6	996.4	1257.5	1665.5	3956.6	10963.1	12207.6	10618.3	7523.7	4885.0
75°	606.8	617.1	758.7	1031.5	1460.1	2012.9	7779.8	9279.9	8646.6	5468.0	2807.8
77.5°	326.3	337.7	504.7	831.1	1320.1	1398.5	5004.4	6386.8	5431.3	2458.2	813.8
80°	136.2	142.7	236.2	604.1	1140.7	1228.3	2944.5	3872.8	2314.4	484.7	181.6
82.5°	58.9	62.2	98.4	360.4	852.7	1037.0	1559.0	1863.2	701.4	106.4	91.3
85°	11.4	11.9	40.5	190.8	544.2	585.2	1010.5	990.5	315.1	45.9	66.5
87.5°	0.0	0.0	9.8	60.0	160.0	318.8	616.5	609.0	107.0	22.2	24.9
90°	0.0	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°
0°	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8	3838.8
2.5°	3808.6	3771.3	3692.9	3596.2	3522.2	3440.5	3375.7	3293.6	3257.9	3259.5	3240.1
5°	3723.2	3646.4	3473.0	3254.2	3085.5	2911.6	2761.8	2612.7	2524.6	2496.0	2469.0
7.5°	3601.1	3479.5	3202.8	2865.6	2580.3	2301.4	2058.9	1845.3	1710.3	1644.4	1620.1
10°	3463.3	3292.5	2892.1	2447.9	2040.5	1663.3	1348.8	1075.3	966.2	892.1	873.3
12.5°	3342.3	3111.0	2588.4	2019.4	1535.7	1080.8	780.8	610.6	536.6	507.4	502.6
15°	3228.2	2941.2	2296.1	1631.4	1063.5	665.2	496.6	438.8	421.5	416.6	416.6
17.5°	3120.7	2779.7	2010.2	1249.4	703.6	466.3	411.3	398.3	392.9	392.3	392.9
20°	3008.3	2618.1	1729.2	915.4	491.2	395.0	379.9	372.8	371.2	371.2	371.2
22.5°	2900.8	2456.5	1455.8	653.8	393.9	360.4	352.8	348.0	346.4	345.9	344.8
25°	2797.5	2303.1	1188.8	462.0	345.9	330.2	323.7	317.2	312.3	309.6	308.0
27.5°	2712.7	2166.3	940.2	370.7	312.3	298.8	290.7	281.0	269.1	263.7	261.5
30°	2645.1	2041.6	724.6	312.9	281.0	267.4	255.0	238.3	221.0	211.8	211.3
32.5°	2592.2	1918.9	550.1	276.7	252.9	236.2	218.3	197.3	177.3	166.9	166.5
35°	2566.2	1810.8	420.4	250.2	228.1	206.9	184.8	161.6	142.1	132.4	131.3
37.5°	2583.5	1719.5	328.0	228.1	206.9	182.6	156.7	132.4	115.1	106.4	105.9
40°	2646.7	1661.1	266.4	209.1	189.1	159.4	131.3	108.6	94.0	87.0	86.4
42.5°	2781.4	1639.5	227.5	193.4	171.8	137.8	109.2	89.7	76.2	71.3	70.3
45°	3006.2	1671.4	201.0	178.3	154.0	117.2	90.3	73.5	61.6	57.9	57.3
47.5°	3305.4	1755.2	182.1	163.7	137.8	98.9	75.2	59.5	50.3	46.5	45.9
50°	3691.3	1888.1	166.5	149.2	122.7	83.8	62.2	47.0	38.9	36.2	36.2
52.5°	4111.2	2046.4	152.4	135.6	107.6	69.7	50.3	36.2	30.8	27.5	27.5
55°	4458.1	2184.7	137.2	125.4	89.1	57.9	38.3	27.5	22.7	21.0	21.0
57.5°	4804.5	2332.2	120.0	107.6	71.3	47.0	29.2	20.6	16.7	15.7	15.7
60°	5253.6	2512.8	103.2	87.6	56.2	35.7	21.6	14.6	12.4	11.9	11.9
62.5°	5747.4	2618.7	88.1	70.3	43.8	26.5	15.7	9.8	9.2	9.2	8.6
65°	6049.5	2469.0	74.0	56.2	34.0	20.0	10.2	7.0	8.1	7.6	6.5
67.5°	5664.3	1932.9	60.5	43.8	26.5	15.1	6.5	4.9	8.6	7.0	5.4
70°	4689.9	1353.1	47.0	30.8	21.0	13.0	4.3	3.3	9.2	7.0	4.3
72.5°	3509.8	905.7	37.3	20.6	15.7	11.4	3.8	1.6	8.1	5.9	3.8
75°	1917.8	364.8	29.7	13.0	9.8	8.1	2.7	1.1	5.4	4.3	2.7
77.5°	504.7	96.2	21.6	8.6	5.4	3.3	1.6	0.6	2.7	2.2	1.1
80°	128.6	37.3	14.1	5.9	3.8	1.6	0.0	0.0	0.6	0.0	0.0
82.5°	68.7	15.7	8.6	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.9	10.2	4.9	2.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.0	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245982

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