

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: P647920

Luminaire Tested: **GALN-SA5A-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15212.9 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

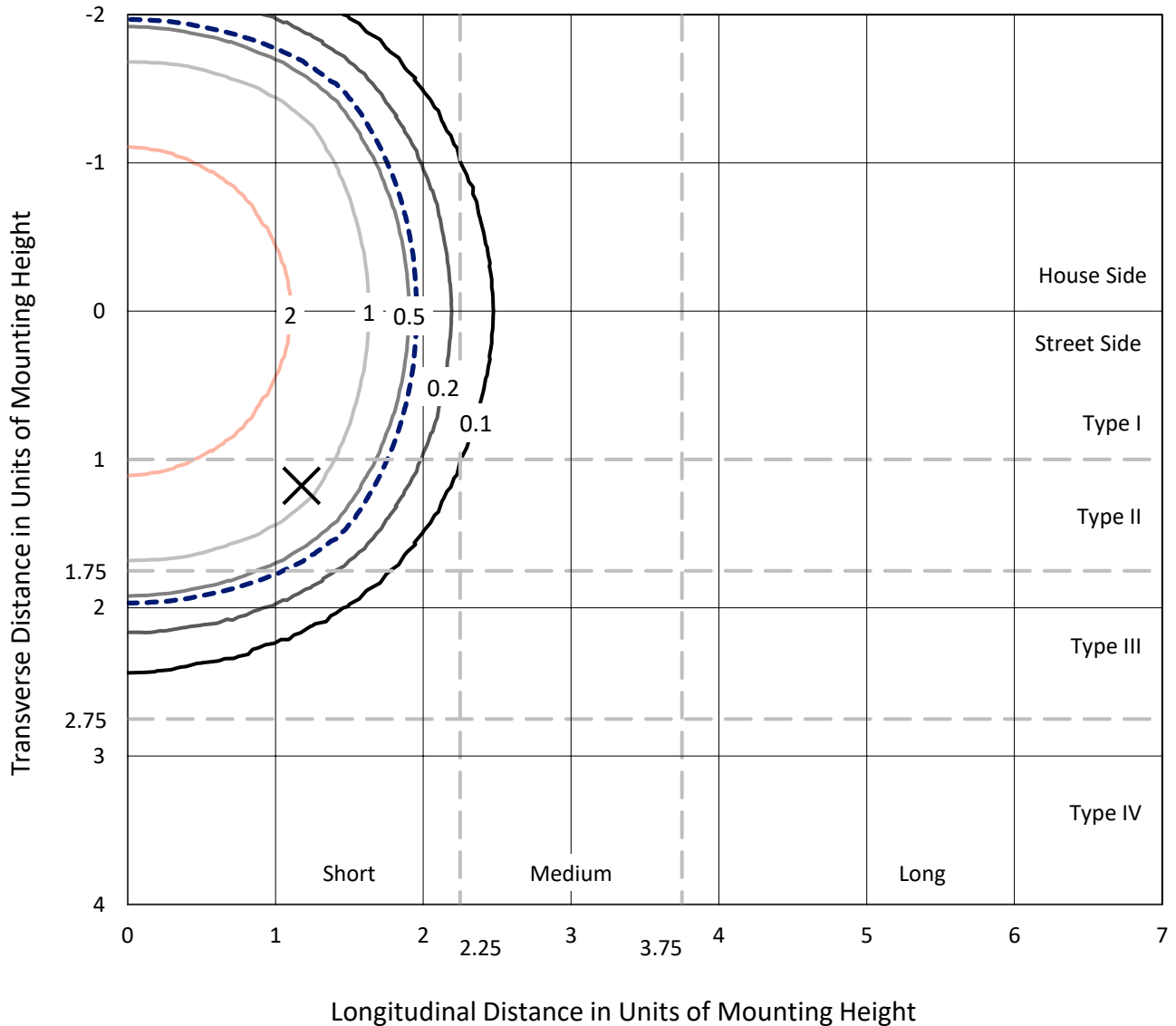
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

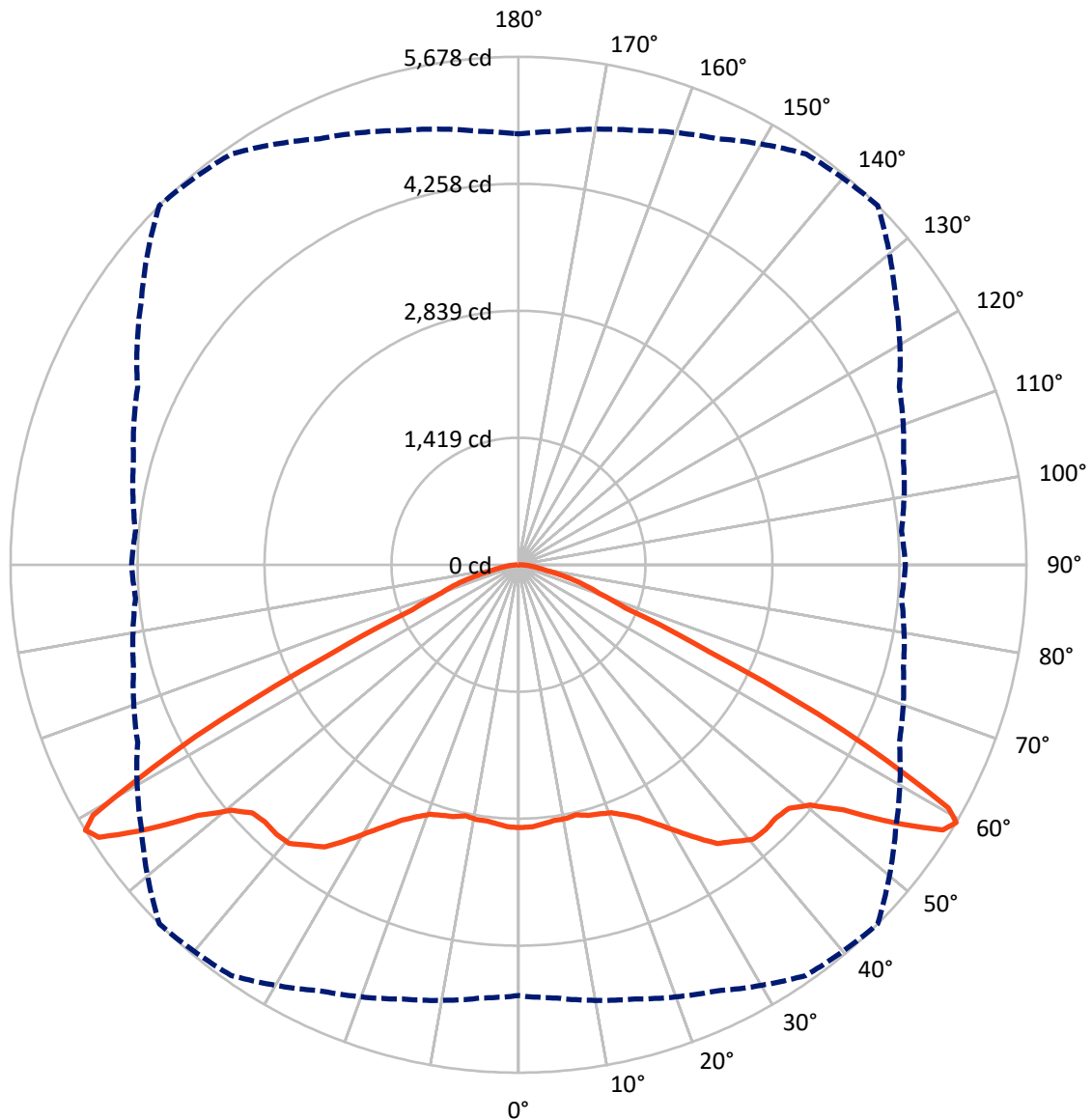
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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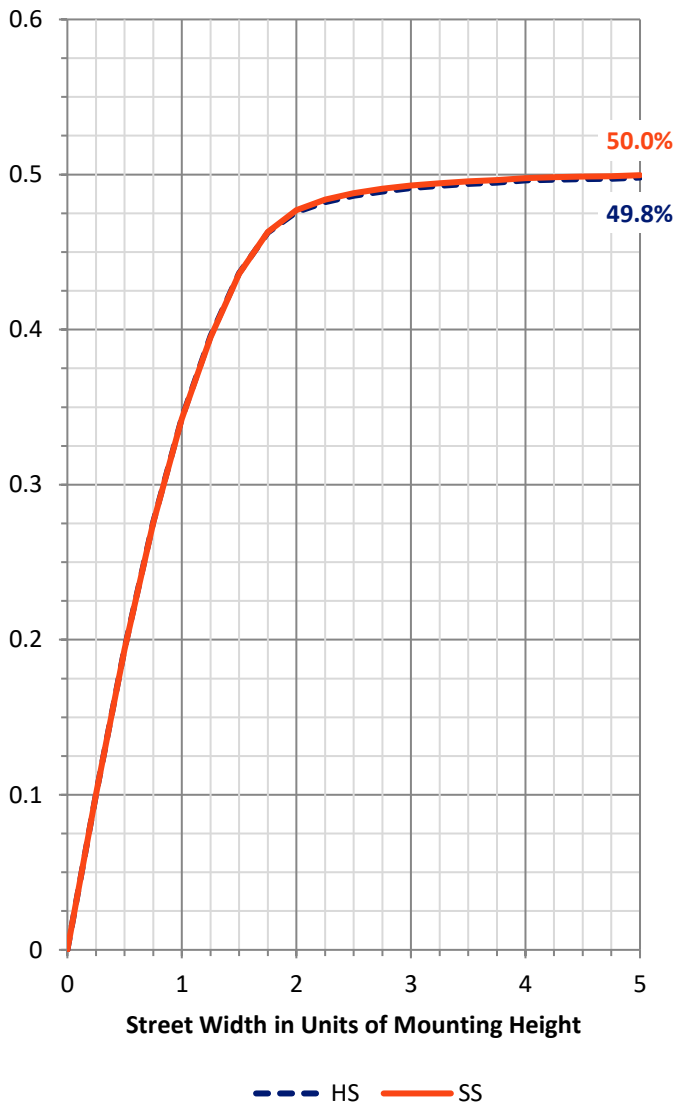
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7606.4	0.0	7606.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7606.4	0.0	7606.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	15212.9	0.0	15212.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.0	1.8
10°-20°	823.7	5.4
20°-30°	1438.3	9.5
30°-40°	2297.2	15.1
40°-50°	3129.3	20.6
50°-60°	4231.7	27.8
60°-70°	2320.6	15.3
70°-80°	593.7	3.9
80°-90°	101.2	0.7
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°	15212.9	100.0
0°-180°	15212.9	100.0

Coefficient of Utilization



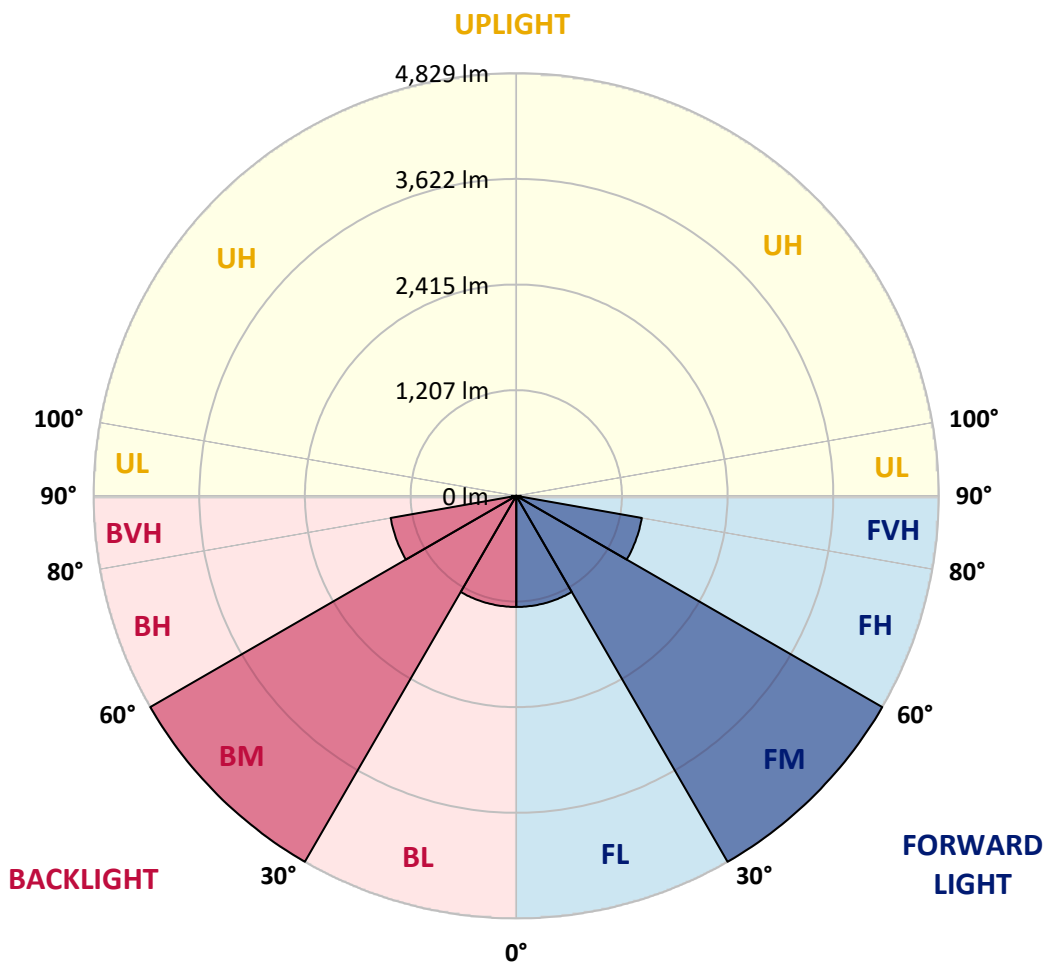
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1269.5	8.3			
FM (30°-60°)	4829.1	31.7			
FH (60°-80°)	1457.2	9.6			G1/1800
FVH (80°-90°)	50.6	0.3			G1/100
BL (0°-30°)	1269.5	8.3	B3/2500		
BM (30°-60°)	4829.1	31.7	B3/5000		
BH (60°-80°)	1457.2	9.6	B3/2500		G1/1800
BVH (80°-90°)	50.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4	2938.4
2.5°	2920.8	2942.3	2926.7	2940.3	2938.4	2932.6	2922.8	2917.0	2909.2	2920.8	2901.3
5°	2909.2	2926.7	2944.2	2920.8	2920.8	2909.2	2903.3	2891.6	2891.6	2889.7	2887.7
7.5°	2928.7	2911.1	2903.3	2907.2	2911.1	2885.7	2903.3	2879.9	2860.4	2874.1	2889.7
10°	2911.1	2918.9	2889.7	2903.3	2881.8	2885.7	2874.1	2889.7	2868.2	2868.2	2868.2
12.5°	2928.7	2907.2	2917.0	2907.2	2901.3	2868.2	2883.8	2866.2	2864.3	2883.8	2866.2
15°	2963.7	2928.7	2920.8	2901.3	2907.2	2907.2	2891.6	2893.6	2872.1	2883.8	2887.7
17.5°	2952.1	2932.6	2926.7	2903.3	2922.8	2928.7	2899.4	2879.9	2893.6	2891.6	2889.7
20°	2961.8	2969.6	2963.7	2967.6	2975.5	2959.8	2932.6	2905.2	2887.7	2913.1	2911.1
22.5°	3024.2	3016.4	3012.5	3008.6	3022.2	3037.9	3000.8	2957.9	2957.9	2975.5	2983.2
25°	3074.9	3073.0	3071.0	3088.5	3135.4	3135.4	3088.5	3034.0	3020.3	3032.0	3022.2
27.5°	3149.0	3170.4	3162.6	3193.9	3262.1	3277.7	3215.3	3150.9	3113.9	3100.2	3117.8
30°	3318.6	3293.3	3299.1	3332.3	3392.7	3443.4	3347.9	3279.6	3228.9	3227.0	3234.8
32.5°	3431.7	3451.2	3468.8	3499.9	3595.5	3634.5	3519.4	3408.3	3377.2	3359.5	3365.4
35°	3657.9	3640.3	3636.5	3667.7	3763.2	3827.5	3683.2	3585.7	3544.8	3583.8	3583.8
37.5°	3872.4	3823.6	3786.6	3827.5	3915.3	3923.1	3800.2	3747.6	3726.1	3771.0	3769.0
40°	3973.8	3969.9	3884.1	3907.5	4024.5	4036.1	3921.1	3858.7	3854.9	3913.4	3971.8
42.5°	4079.0	4042.0	3956.2	3971.8	4044.0	4047.9	3938.6	3921.1	3964.0	4020.5	4024.5
45°	4096.6	4065.4	4010.8	3971.8	4024.5	4036.1	3971.8	3983.5	3987.4	4055.6	4055.6
47.5°	4131.7	4127.8	4096.6	4067.4	4077.1	4067.4	4026.4	4044.0	4102.5	4135.6	4120.0
50°	4229.2	4188.3	4219.4	4194.1	4196.0	4223.3	4186.3	4203.8	4192.2	4162.9	4143.4
52.5°	4443.7	4424.2	4451.5	4469.1	4488.5	4551.0	4508.0	4414.4	4326.7	4248.7	4246.8
55°	4757.6	4771.3	4823.9	4913.6	4989.7	5089.1	4882.4	4658.1	4517.8	4394.9	4402.7
57.5°	5054.0	5044.2	5116.4	5321.1	5543.4	5594.1	5188.5	4868.8	4640.6	4562.6	4529.5
59°	4816.1	4862.9	5026.7	5254.8	5603.9	5677.9	5147.6	4697.1	4455.3	4297.4	4324.7
60°	4441.7	4459.3	4605.5	4923.3	5395.2	5522.0	4872.6	4432.0	4110.3	4018.6	4059.5
62.5°	3139.2	3125.6	3230.9	3490.2	3913.4	4084.9	3622.8	3312.8	3110.0	3008.6	3032.0
65°	1669.0	1731.4	1774.4	1936.2	2160.5	2341.7	2150.7	2016.1	1903.0	1819.2	1817.3
67.5°	1127.0	1119.2	1128.9	1166.0	1242.1	1292.7	1288.8	1220.6	1210.8	1195.2	1212.8
70°	949.5	945.7	928.1	928.1	943.7	955.4	969.0	976.9	992.5	1011.9	1010.0
72.5°	770.2	760.4	748.7	742.9	762.4	768.2	785.8	793.6	807.2	805.3	822.9
75°	508.9	508.9	522.6	538.2	544.0	555.7	557.7	581.1	581.1	585.0	569.3
77.5°	284.7	276.9	286.7	302.2	315.9	337.3	358.8	376.3	386.1	382.2	382.2
80°	165.8	165.8	175.5	193.0	210.5	230.0	245.7	259.3	269.0	265.2	257.4
82.5°	103.4	103.4	113.1	130.6	144.3	156.0	177.4	195.0	206.7	202.8	193.0
85°	52.6	52.6	64.4	76.0	93.6	101.4	99.4	91.6	89.7	79.9	79.9
87.5°	13.6	13.6	19.5	21.5	17.5	19.5	19.5	19.5	19.5	19.5	21.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)