

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: P648135

Luminaire Tested: **GALN-SA9A-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34046.4 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

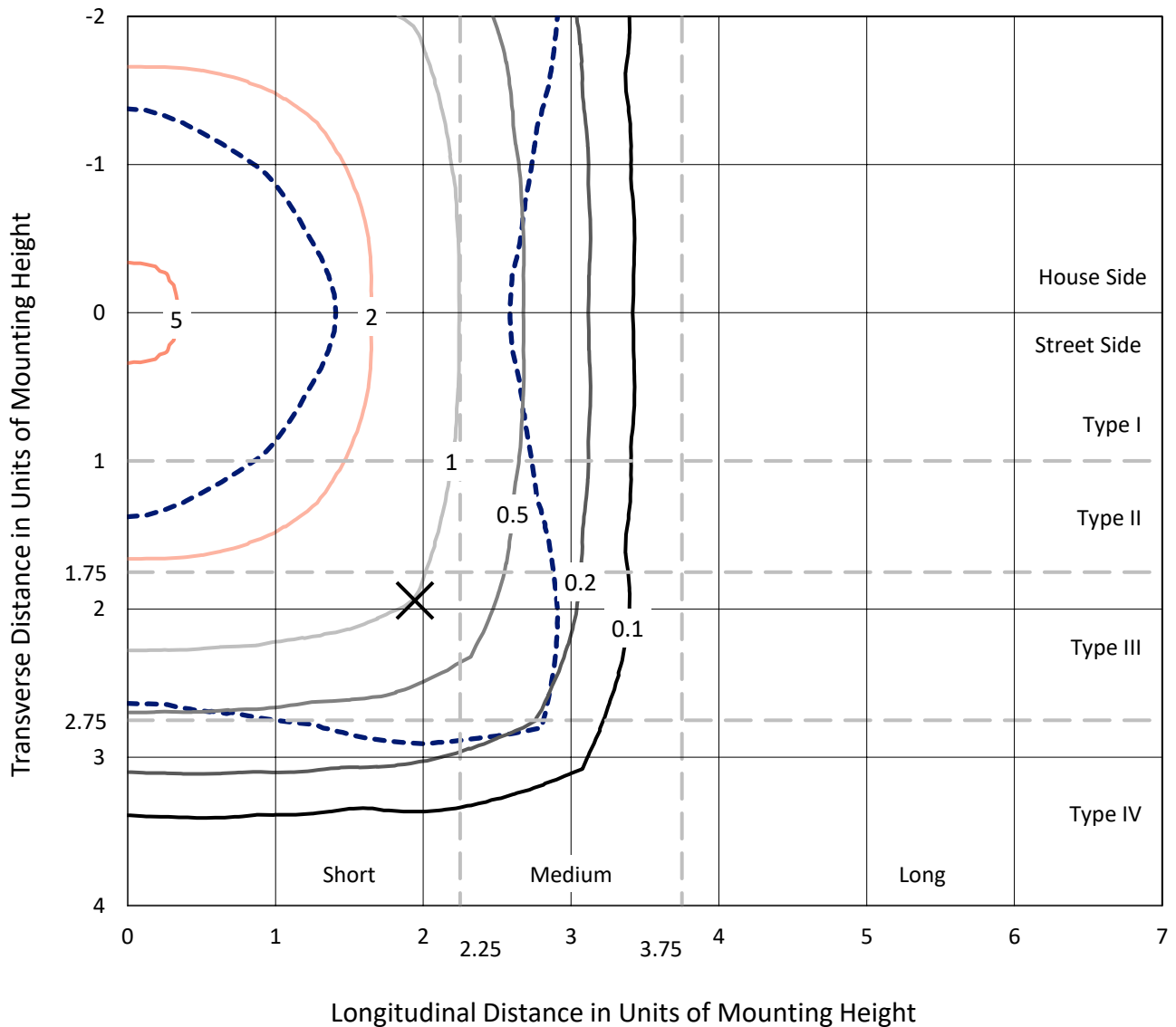
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

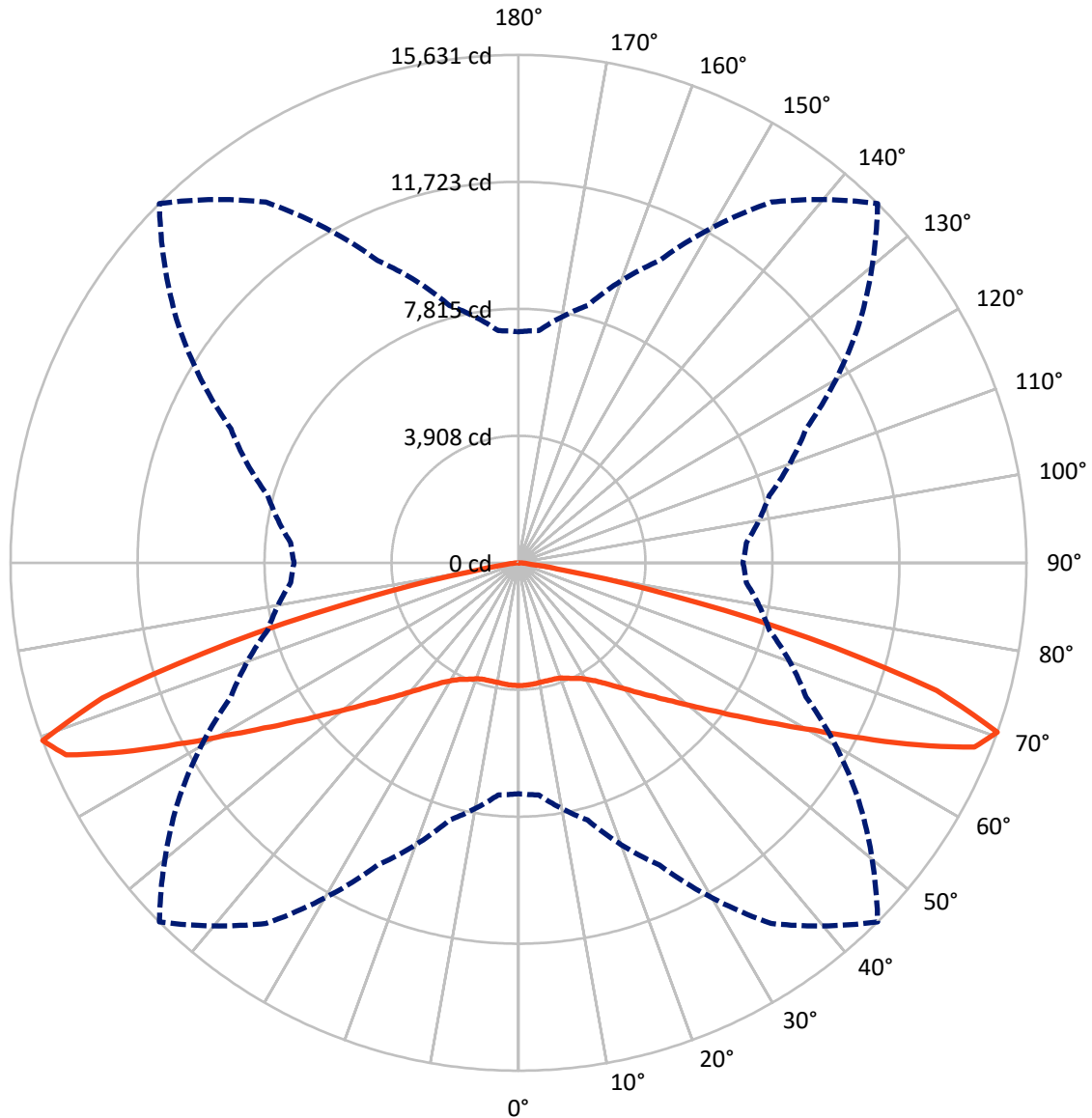
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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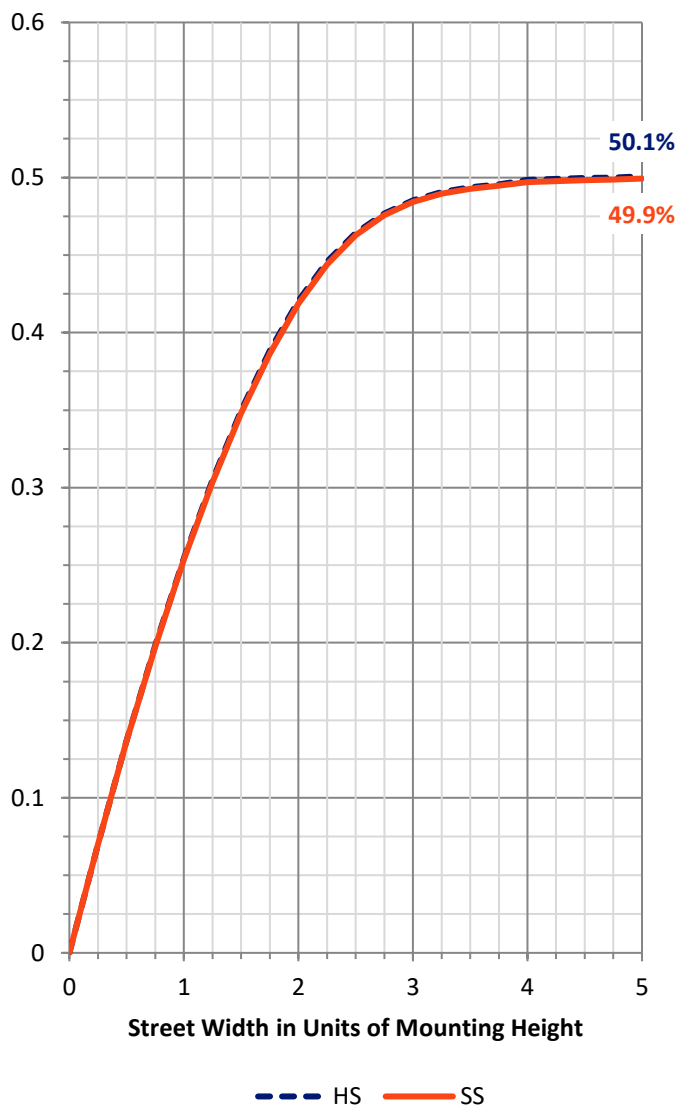
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17023.2	0.0	17023.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17023.2	0.0	17023.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	34046.4	0.0	34046.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.5	1.1
10°-20°	1052.1	3.1
20°-30°	1799.3	5.3
30°-40°	2855.9	8.4
40°-50°	4607.3	13.5
50°-60°	7496.2	22.0
60°-70°	10866.8	31.9
70°-80°	4820.1	14.2
80°-90°	190.1	0.6
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°	34046.4	100.0
0°-180°	34046.4	100.0

Coefficient of Utilization



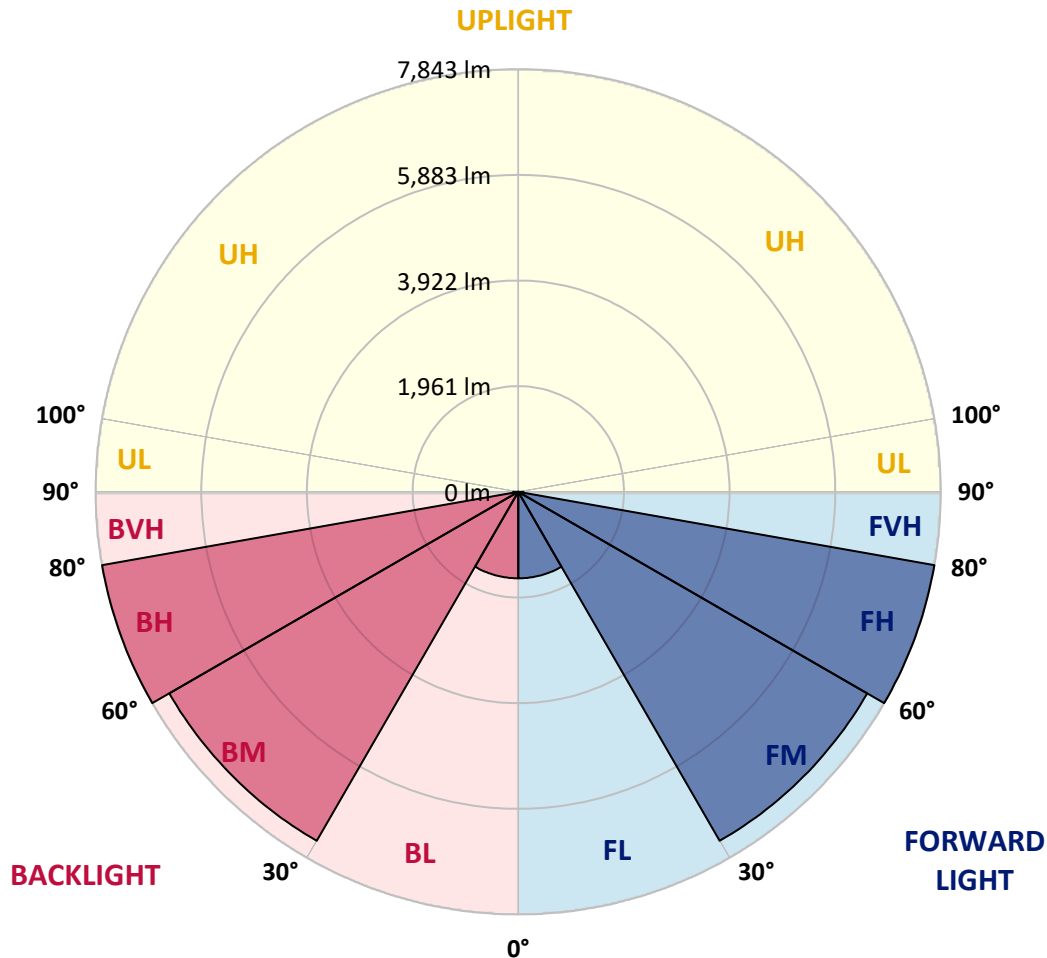
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1604.9	4.7			
FM (30°-60°)	7479.7	22.0			
FH (60°-80°)	7843.5	23.0			G4/12000
FVH (80°-90°)	95.1	0.3			G1/100
BL (0°-30°)	1604.9	4.7	B3/2500		
BM (30°-60°)	7479.7	22.0	B4/8500		
BH (60°-80°)	7843.5	23.0	B5		G4/12000
BVH (80°-90°)	95.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7	3780.7
2.5°	3780.7	3784.3	3778.9	3775.3	3773.5	3773.5	3771.7	3773.5	3784.3	3786.0	3780.7
5°	3769.9	3773.5	3771.7	3768.1	3766.3	3766.3	3764.5	3762.8	3771.7	3775.3	3773.5
7.5°	3755.6	3757.4	3755.6	3753.8	3755.6	3753.8	3748.4	3744.8	3752.0	3752.0	3750.2
10°	3730.4	3734.0	3732.2	3734.0	3737.7	3737.7	3730.4	3723.2	3725.0	3721.4	3721.4
12.5°	3699.9	3705.3	3707.1	3714.3	3723.2	3734.0	3717.9	3701.7	3698.2	3696.4	3694.6
15°	3680.2	3685.6	3692.8	3699.9	3716.1	3739.5	3716.1	3691.0	3683.8	3676.7	3673.1
17.5°	3674.9	3682.0	3692.8	3703.5	3725.0	3748.4	3728.6	3703.5	3685.6	3674.9	3671.3
20°	3689.2	3694.6	3710.7	3730.4	3761.0	3784.3	3764.5	3737.7	3710.7	3694.6	3689.2
22.5°	3717.9	3726.8	3746.6	3782.5	3825.6	3859.6	3832.7	3787.8	3744.8	3723.2	3716.1
25°	3780.7	3787.8	3811.2	3859.6	3909.9	3942.2	3913.5	3861.4	3802.2	3773.5	3764.5
27.5°	3875.8	3886.6	3911.7	3969.1	4010.4	4028.3	4008.6	3972.7	3929.6	3899.1	3892.0
30°	4010.4	4022.9	4060.6	4121.6	4148.6	4159.3	4150.3	4127.0	4096.5	4064.2	4057.0
32.5°	4191.6	4198.8	4241.8	4299.3	4324.4	4328.0	4317.2	4306.4	4256.2	4202.4	4198.8
35°	4394.4	4407.0	4459.0	4527.1	4550.5	4552.3	4530.8	4514.5	4455.3	4412.3	4412.3
37.5°	4663.5	4668.9	4719.1	4796.3	4821.4	4814.3	4803.5	4789.1	4726.3	4670.7	4672.5
40°	4979.3	4990.1	5033.1	5122.9	5122.9	5113.9	5121.1	5110.3	5047.5	4993.7	4995.5
42.5°	5354.3	5359.7	5411.8	5506.8	5499.7	5481.7	5488.9	5474.6	5435.1	5374.0	5352.5
45°	5754.5	5776.0	5865.7	5957.2	5942.9	5885.5	5914.2	5910.6	5874.7	5783.2	5788.6
47.5°	6237.1	6273.0	6359.1	6468.6	6452.5	6362.7	6395.1	6416.6	6366.3	6265.9	6247.9
50°	6780.9	6804.2	6931.6	7033.8	7019.5	6924.4	6998.0	7001.6	6875.9	6734.2	6734.2
52.5°	7360.4	7383.8	7556.0	7715.7	7724.7	7586.5	7645.7	7642.2	7437.6	7251.0	7215.1
55°	8010.0	8020.7	8243.3	8478.3	8528.5	8394.0	8401.1	8329.4	8063.8	7846.7	7826.9
57.5°	8681.0	8720.5	8966.4	9271.4	9420.4	9337.8	9300.1	9108.1	8851.5	8602.1	8589.5
60°	9424.0	9425.7	9745.1	10105.8	10407.2	10462.8	10308.5	10051.9	9720.0	9389.8	9375.5
62.5°	9938.9	10016.1	10419.8	11029.9	11570.0	11882.2	11474.9	10936.6	10283.4	9750.5	9696.7
65°	10044.8	10096.8	10712.3	11745.8	12849.3	13522.2	12580.1	11435.4	10321.1	9610.5	9574.7
67.5°	9188.9	9244.5	10073.5	11659.7	13746.5	15126.4	13297.9	11194.9	9682.3	8803.1	8733.1
70°	7107.4	7170.2	8194.8	10263.6	13547.3	15630.6	12786.5	9764.9	7984.9	7035.6	6908.3
72.5°	3778.9	4010.4	4886.0	7044.7	10995.7	13457.6	10484.4	7125.4	5149.8	4209.6	4040.9
75°	1379.9	1408.5	1896.7	3123.9	6396.9	9228.4	6642.7	3398.5	1954.1	1509.1	1431.9
77.5°	570.6	568.8	624.4	943.8	2323.7	4726.3	2592.8	997.6	622.6	576.0	568.8
80°	337.3	337.3	371.5	393.0	611.8	1426.5	683.6	445.0	373.3	340.9	346.3
82.5°	150.7	159.7	235.1	247.6	296.1	391.2	330.2	283.5	244.1	168.7	152.5
85°	82.5	71.8	123.8	129.2	141.7	145.3	156.1	154.3	141.7	82.5	84.3
87.5°	16.1	19.7	35.9	26.9	30.5	26.9	35.9	50.3	52.1	28.7	23.3
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)