

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: P648136

Luminaire Tested: **GALN-SA9A-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648136  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-835-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22299.8 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

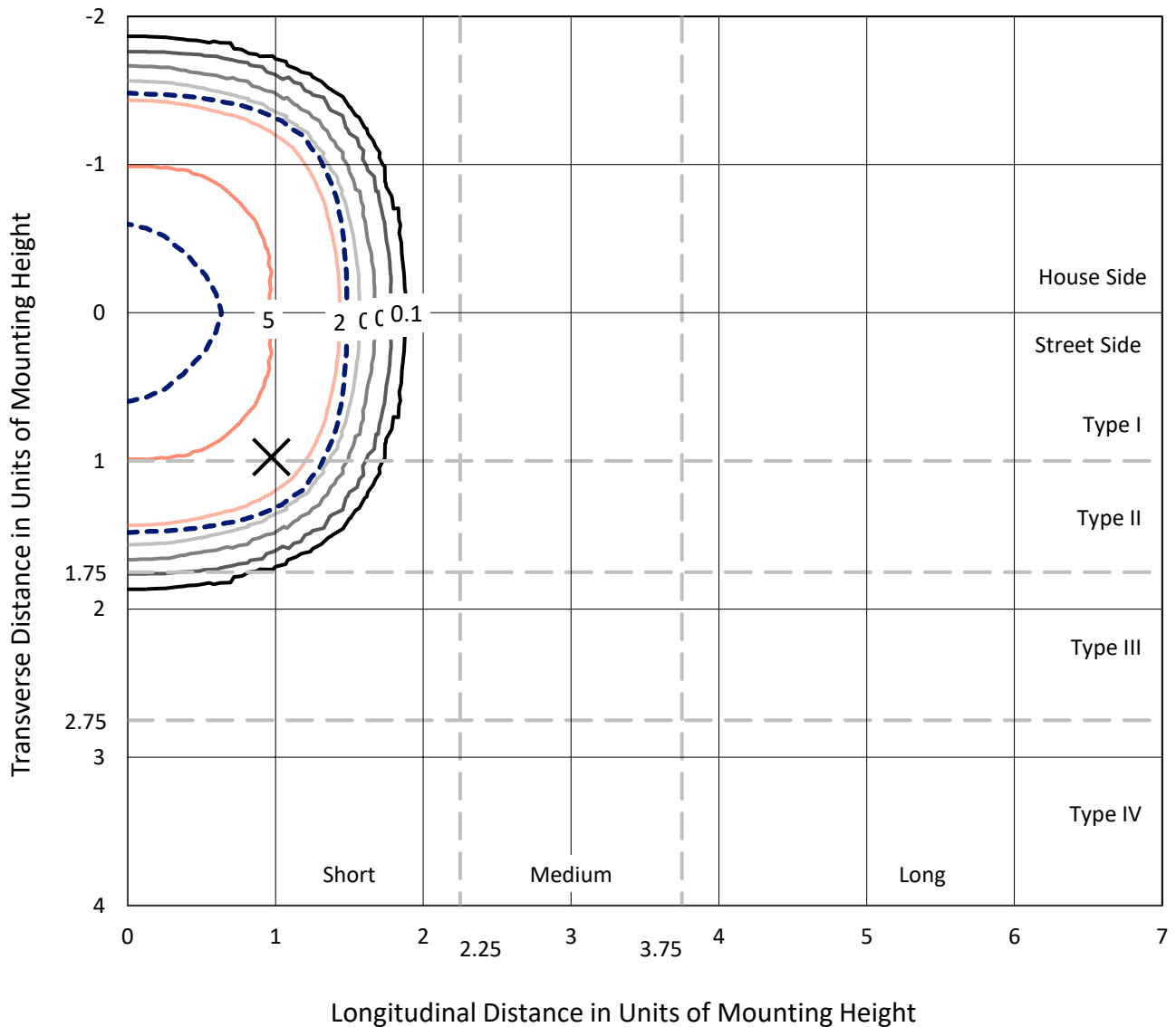
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

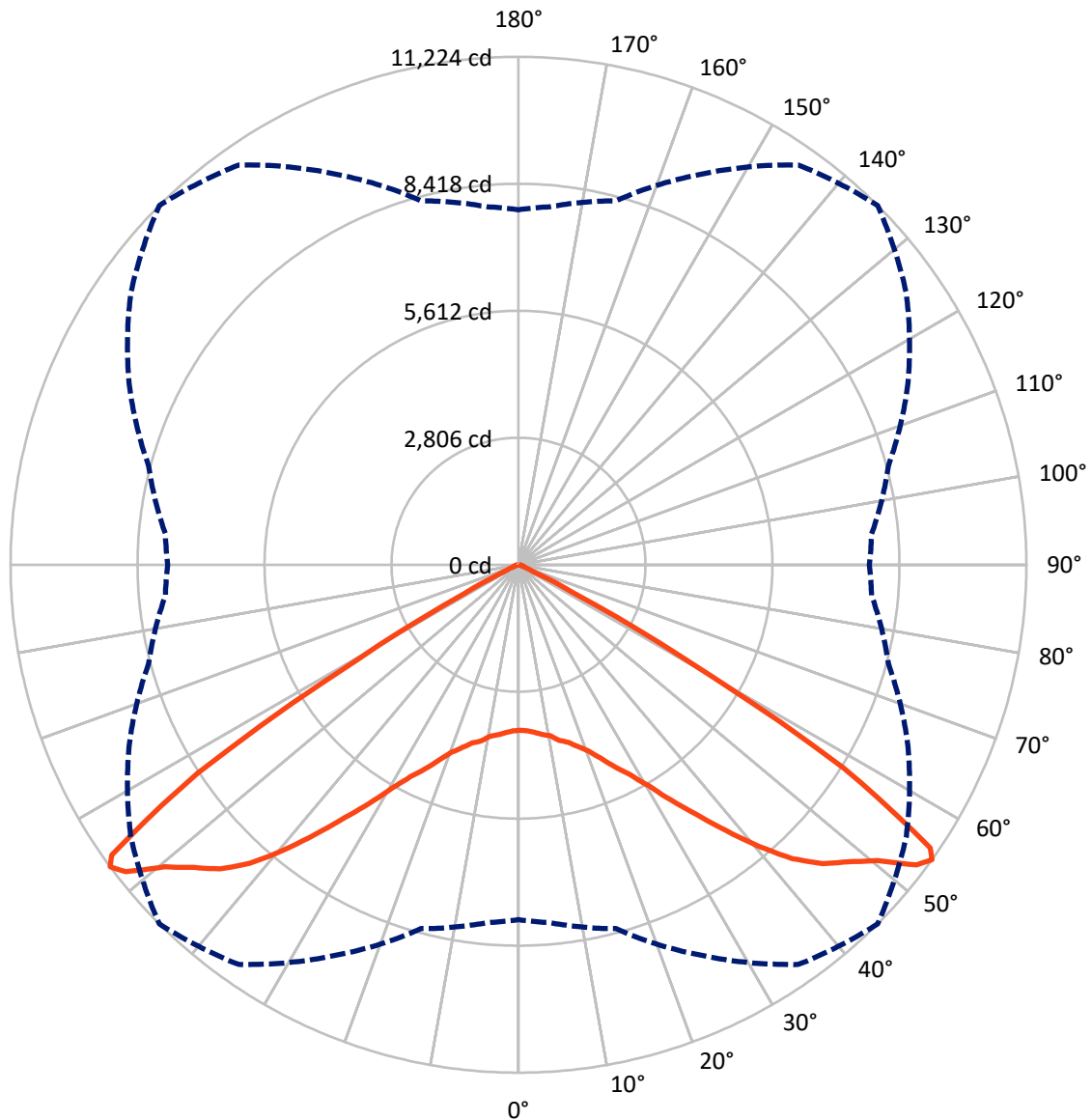
× Max cd  
 - - - 1/2 Max cd



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 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11149.9	0.0	11149.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11149.9	0.0	11149.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22299.8	0.0	22299.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.9	1.6
10°-20°	1159.0	5.2
20°-30°	2271.5	10.2
30°-40°	4084.6	18.3
40°-50°	6992.1	31.4
50°-60°	6765.5	30.3
60°-70°	579.2	2.6
70°-80°	68.6	0.3
80°-90°	21.5	0.1
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°	22299.8	100.0
0°-180°	22299.8	100.0

**Coefficient of Utilization**



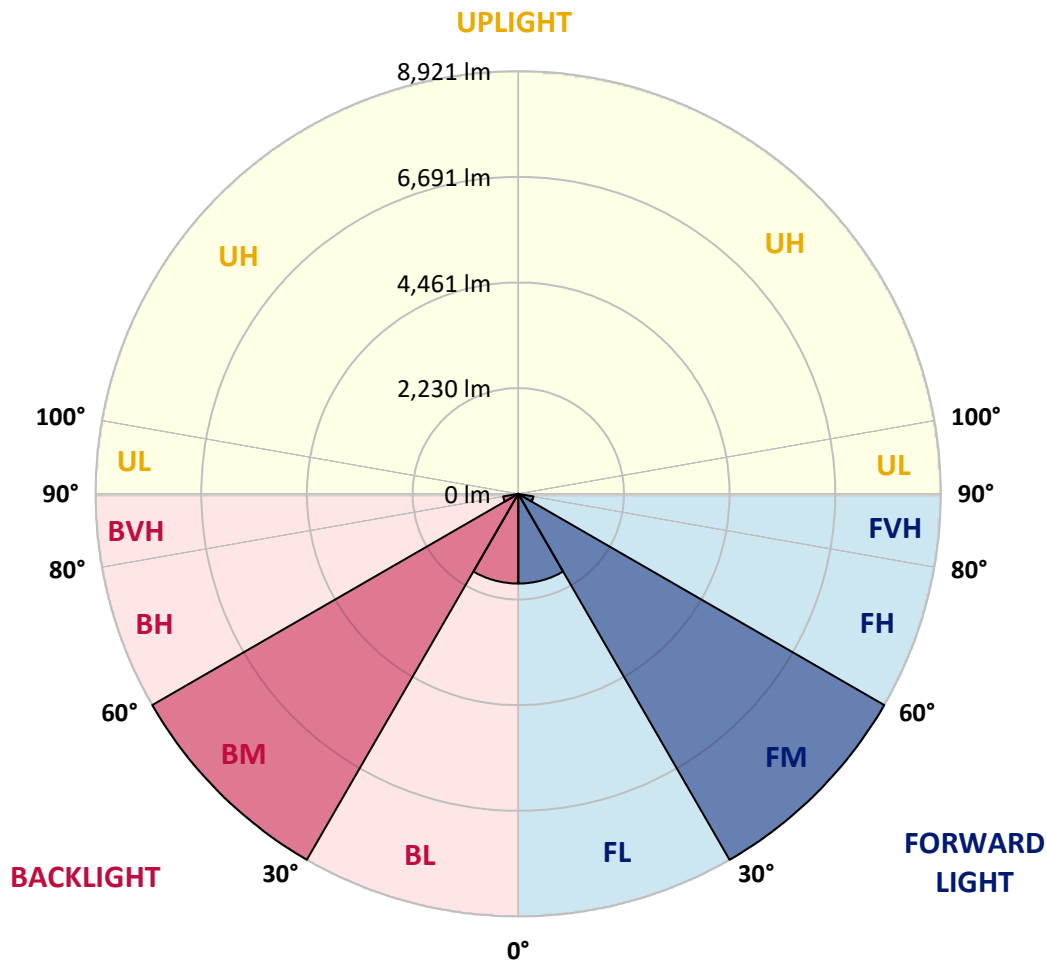
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1894.2	8.5			
FM (30°-60°)	8921.1	40.0			
FH (60°-80°)	323.9	1.5			G0/660
FVH (80°-90°)	10.8	0.0			G1/100
BL (0°-30°)	1894.2	8.5	B3/2500		
BM (30°-60°)	8921.1	40.0	B5		
BH (60°-80°)	323.9	1.5	B1/500		G0/660
BVH (80°-90°)	10.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5	3656.5
2.5°	3674.1	3695.4	3681.2	3691.8	3691.8	3674.1	3684.7	3642.4	3670.6	3649.4	3652.9
5°	3730.7	3727.2	3727.2	3730.7	3716.5	3723.6	3709.5	3695.4	3684.7	3670.6	3713.0
7.5°	3801.3	3801.3	3776.6	3783.7	3776.6	3787.2	3758.9	3730.7	3720.0	3709.5	3702.4
10°	3868.4	3861.4	3850.8	3882.6	3857.8	3843.7	3829.6	3812.0	3773.0	3758.9	3744.8
12.5°	3967.4	3963.9	3949.7	3981.5	3967.4	3981.5	3928.5	3882.6	3875.5	3829.6	3854.3
15°	4084.0	4115.8	4091.0	4091.0	4084.0	4066.3	4045.1	4023.9	3960.3	3942.6	3946.2
17.5°	4235.9	4225.3	4228.8	4228.8	4264.1	4218.2	4175.8	4122.8	4091.0	4080.4	4045.1
20°	4380.7	4394.8	4391.3	4416.0	4437.3	4387.8	4341.8	4334.8	4246.4	4260.6	4211.1
22.5°	4635.0	4624.5	4642.2	4659.8	4645.7	4638.6	4596.2	4543.2	4465.5	4430.1	4423.1
25°	4903.5	4885.9	4854.1	4896.5	4917.7	4949.5	4868.2	4840.0	4719.8	4666.8	4670.4
27.5°	5133.2	5157.9	5193.2	5210.9	5264.0	5253.3	5196.8	5104.9	5013.1	4953.0	4914.2
30°	5447.6	5461.7	5521.8	5546.5	5638.4	5663.1	5574.8	5468.8	5306.3	5228.6	5182.7
32.5°	5737.4	5836.2	5832.7	5956.4	6104.7	6207.2	6048.2	5885.7	5723.2	5631.3	5550.1
35°	6207.2	6189.5	6292.0	6422.7	6662.9	6779.5	6606.4	6419.2	6171.8	6023.5	5959.9
37.5°	6645.2	6652.3	6790.1	6998.5	7274.1	7454.2	7302.3	6995.0	6740.6	6549.9	6461.6
40°	7281.2	7295.3	7436.6	7673.3	7984.2	8178.5	8001.9	7690.9	7351.8	7203.4	7203.4
42.5°	8026.6	8086.7	8178.5	8383.4	8662.5	8878.0	8719.0	8475.3	8132.6	7941.8	7970.1
45°	8793.2	8821.5	8881.6	9185.4	9316.1	9422.1	9273.7	9160.6	8931.0	8697.8	8659.0
47.5°	9510.4	9521.0	9697.6	9793.0	9895.5	9807.2	9902.5	9754.1	9496.2	9270.2	9224.2
50°	9828.3	9810.7	10061.5	10351.2	10428.9	10273.5	10192.2	10093.3	9701.1	9429.1	9309.0
52.5°	8902.7	9005.2	9471.5	10277.0	10884.6	11015.4	10542.0	10086.2	9355.0	8825.0	8743.8
54°	7842.9	7938.3	8323.4	9517.4	10782.2	11223.8	10460.7	9492.7	8461.1	7832.3	7751.0
55°	6793.6	6687.7	7387.1	8606.0	10301.7	11040.1	10139.2	8726.1	7546.2	6970.3	6857.2
57.5°	3677.7	3695.4	4285.4	5437.0	7238.8	8464.6	7475.5	5903.4	4458.4	3812.0	3755.4
60°	1165.8	1194.1	1452.0	2197.4	3458.7	4129.9	3539.9	2370.5	1639.2	1314.2	1261.3
62.5°	363.9	378.0	413.3	614.7	946.8	1353.1	1059.9	635.9	473.4	434.6	441.6
65°	222.6	222.6	226.1	240.2	282.7	328.5	318.0	279.1	268.5	261.4	257.9
67.5°	144.9	141.3	148.4	158.9	166.1	169.6	180.2	190.7	187.2	180.2	180.2
70°	88.3	84.8	91.8	106.0	109.5	116.6	127.2	141.3	137.8	130.7	134.3
72.5°	49.5	49.5	53.0	63.6	74.2	81.3	91.8	102.4	106.0	102.4	102.4
75°	17.7	21.2	28.3	38.8	46.0	56.5	67.1	77.8	88.3	81.3	77.8
77.5°	7.0	7.0	14.1	24.7	35.3	46.0	63.6	74.2	81.3	74.2	67.1
80°	3.5	3.5	10.6	21.2	31.8	42.4	53.0	63.6	67.1	60.1	53.0
82.5°	3.5	3.5	10.6	21.2	31.8	38.8	56.5	63.6	70.6	63.6	53.0
85°	0.0	3.5	10.6	21.2	28.3	31.8	31.8	21.2	17.7	10.6	10.6
87.5°	0.0	0.0	3.5	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

(END OF REPORT)