

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: P646872

Luminaire Tested: **GALN-SA4C-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-835-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19614.9 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

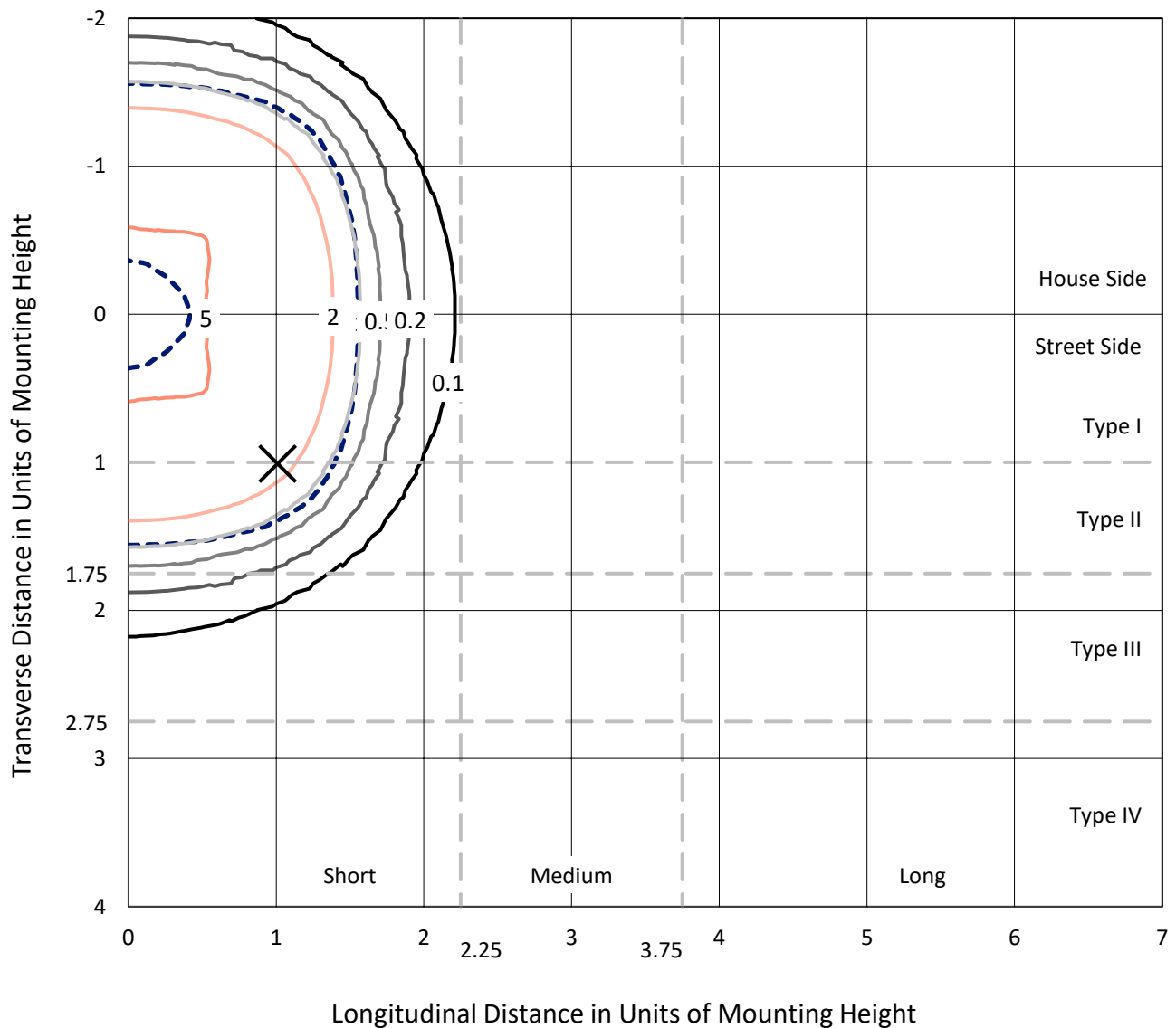
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P646872  
 CATALOG NUMBER: GALN-SA4C-835-U-5NQ-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

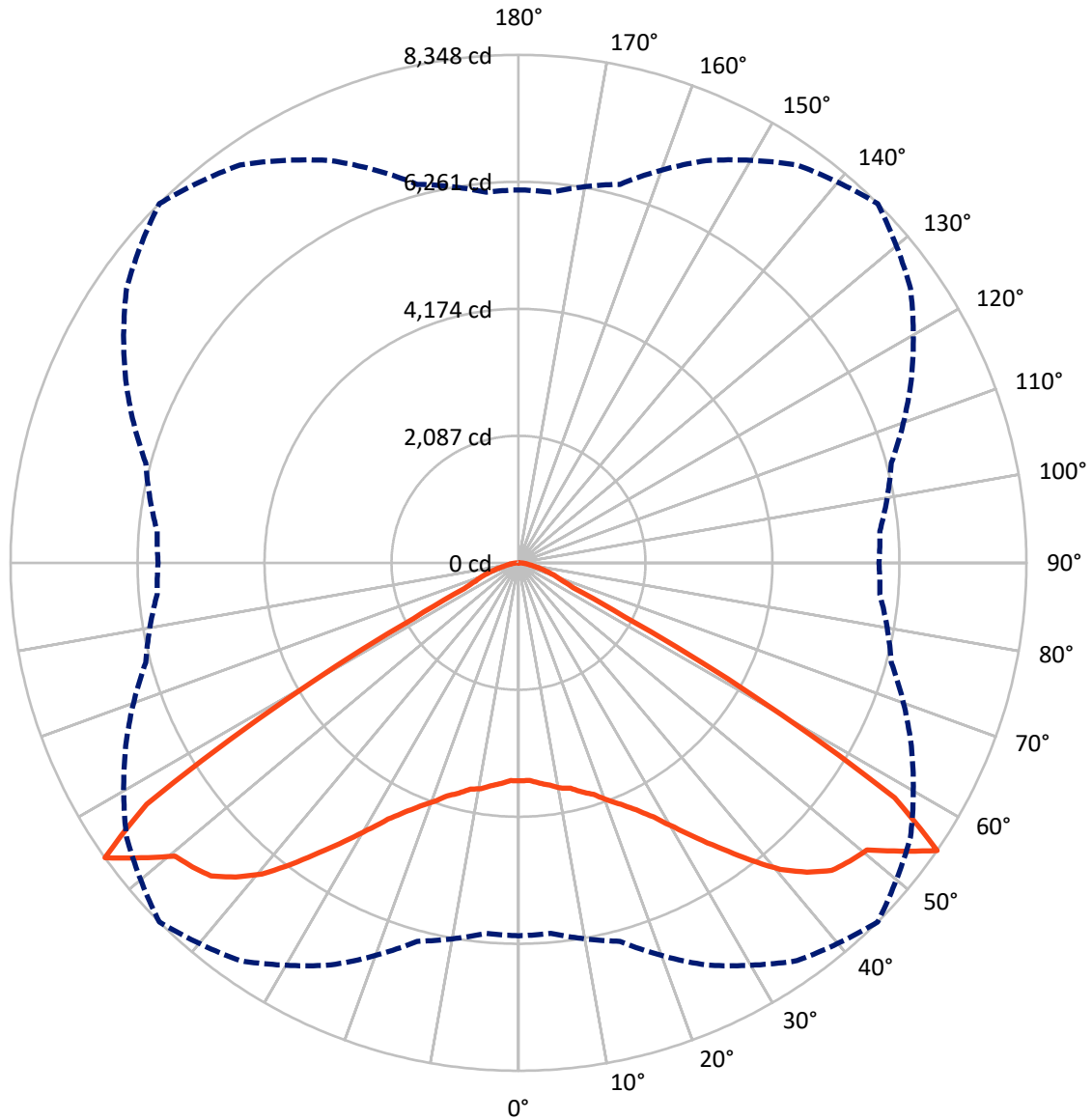
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type V - Short - N/A

REPORT NUMBER: P646872  
CATALOG NUMBER: GALN-SA4C-835-U-5NQ-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P646872  
 CATALOG NUMBER: GALN-SA4C-835-U-5NQ-GRSWH

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9807.5	0.0	9807.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9807.5	0.0	9807.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19614.9	0.0	19614.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.9	1.8
10°-20°	1108.6	5.7
20°-30°	2067.1	10.5
30°-40°	3461.0	17.6
40°-50°	5385.6	27.5
50°-60°	5592.0	28.5
60°-70°	1185.9	6.0
70°-80°	390.5	2.0
80°-90°	74.4	0.4
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°	19614.9	100.0
0°-180°	19614.9	100.0

**Coefficient of Utilization**



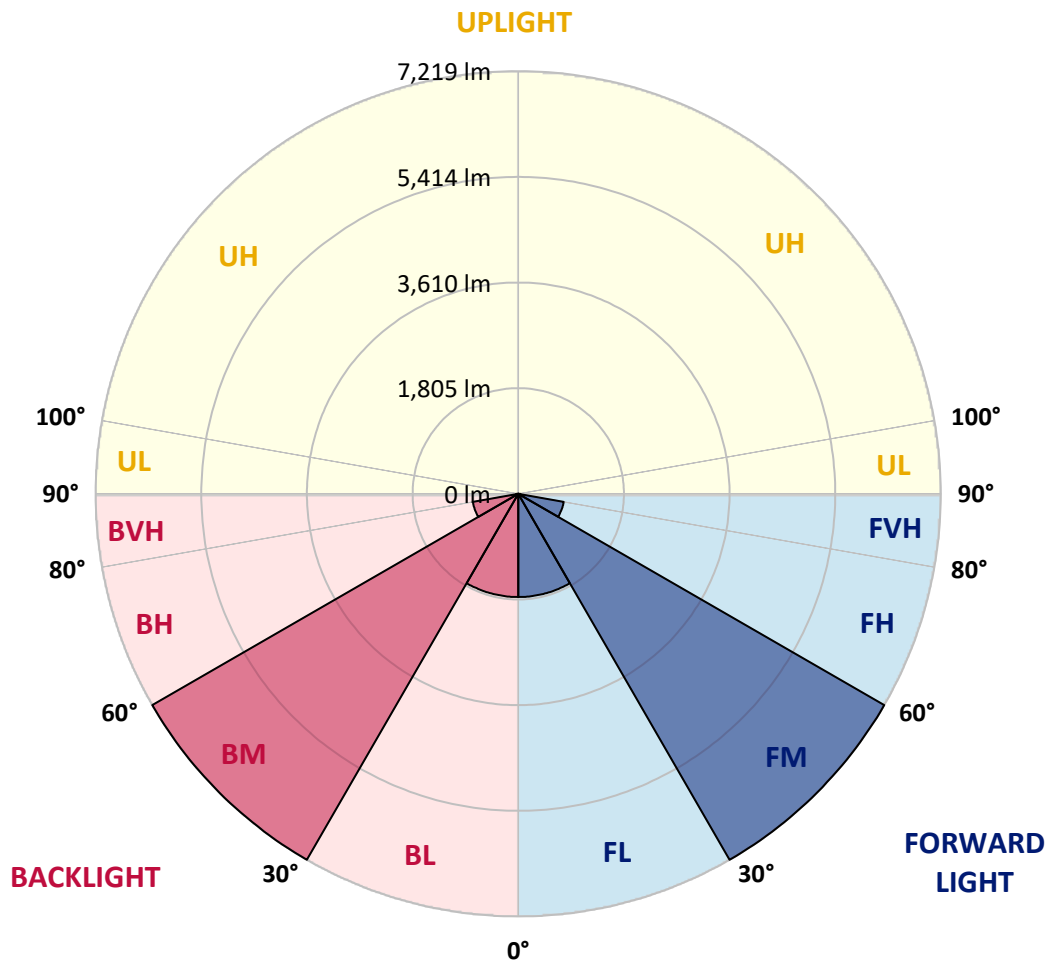
REPORT NUMBER: P646872  
 CATALOG NUMBER: GALN-SA4C-835-U-5NQ-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1762.8	9.0			
FM (30°-60°)	7219.3	36.8			
FH (60°-80°)	788.2	4.0			G1/1800
FVH (80°-90°)	37.2	0.2			G1/100
BL (0°-30°)	1762.8	9.0	B3/2500		
BM (30°-60°)	7219.3	36.8	B4/8500		
BH (60°-80°)	788.2	4.0	B2/1000		G1/1800
BVH (80°-90°)	37.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





REPORT NUMBER: P646872

CATALOG NUMBER: GALN-SA4C-835-U-5NQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4	3581.4
2.5°	3624.0	3607.4	3579.0	3600.4	3616.9	3581.4	3595.6	3602.7	3598.0	3579.0	3586.1
5°	3676.2	3666.7	3643.0	3659.6	3638.3	3638.3	3624.0	3605.1	3633.5	3628.8	3640.6
7.5°	3676.2	3664.4	3711.7	3681.0	3690.4	3690.4	3666.7	3647.8	3662.0	3640.6	3628.8
10°	3749.7	3766.3	3744.9	3752.1	3747.3	3763.9	3728.3	3716.5	3704.6	3697.6	3683.3
12.5°	3837.4	3825.5	3832.6	3827.9	3844.5	3801.9	3780.5	3754.4	3775.8	3744.9	3766.3
15°	3908.5	3901.4	3908.5	3927.4	3910.9	3908.5	3870.5	3844.5	3811.3	3818.4	3785.3
17.5°	4005.7	3998.5	4000.9	4017.5	4015.1	4003.3	3974.8	3925.1	3913.2	3894.3	3873.0
20°	4150.2	4138.4	4133.7	4140.7	4152.6	4162.1	4105.2	4086.2	4045.9	4015.1	3979.6
22.5°	4273.5	4268.8	4287.7	4256.9	4283.0	4311.4	4256.9	4247.5	4147.9	4131.3	4093.4
25°	4444.2	4437.0	4425.2	4470.2	4501.1	4498.6	4446.5	4394.4	4318.6	4299.5	4299.5
27.5°	4624.3	4584.0	4645.6	4657.4	4712.0	4728.6	4683.5	4607.7	4536.6	4496.3	4505.8
30°	4849.4	4811.5	4825.8	4911.1	4982.2	5043.9	4930.1	4818.7	4719.1	4648.0	4636.1
32.5°	5074.6	5036.7	5079.4	5162.3	5304.5	5397.0	5285.6	5091.2	4975.1	4870.8	4892.1
35°	5257.1	5285.6	5354.3	5479.9	5626.9	5776.2	5598.4	5449.1	5283.2	5167.1	5183.7
37.5°	5551.1	5638.8	5693.3	5837.8	6046.4	6200.5	6015.6	5821.2	5643.5	5491.8	5439.7
40°	5935.0	5994.3	6055.9	6226.6	6473.1	6627.2	6451.7	6198.1	6022.7	5866.3	5859.2
42.5°	6356.9	6413.8	6477.8	6686.4	6833.3	6949.4	6788.3	6653.2	6458.8	6335.6	6328.4
45°	6847.6	6807.2	6878.3	7015.8	7139.1	7215.0	7110.7	7044.3	6904.4	6790.6	6778.8
47.5°	7174.6	7139.1	7267.1	7390.3	7409.3	7326.3	7347.7	7409.3	7262.3	7075.1	7134.4
50°	7364.3	7364.3	7449.6	7563.4	7527.8	7421.1	7589.5	7594.2	7447.2	7281.3	7281.3
52.5°	7034.8	7108.3	7350.0	7722.2	7840.6	7871.5	7833.5	7672.4	7288.4	6949.4	6932.8
55°	6129.4	6112.8	6439.9	7293.2	7982.9	8347.9	7864.4	7122.5	6342.7	5961.1	5923.2
57.5°	3986.7	4005.7	4494.0	5363.8	6608.1	7288.4	6473.1	5430.2	4494.0	3967.8	4017.5
60°	1794.2	1858.2	2154.5	2804.0	3873.0	4427.6	3882.4	2946.2	2261.1	1962.5	1988.6
62.5°	1031.1	1042.9	1054.8	1251.5	1649.7	1950.7	1713.7	1322.6	1166.1	1114.0	1114.0
65°	869.8	862.8	865.1	881.7	924.4	986.0	960.0	924.4	929.1	924.4	917.3
67.5°	739.5	749.0	741.9	753.7	756.1	765.6	782.1	796.4	798.7	803.5	798.7
70°	606.7	609.2	613.9	623.3	625.8	632.8	656.5	668.4	675.5	675.5	685.0
72.5°	464.6	462.2	466.9	476.4	488.3	490.6	512.0	528.5	538.1	526.2	528.5
75°	305.8	308.1	315.2	322.4	339.0	355.6	362.6	379.2	381.6	386.3	374.5
77.5°	182.5	187.2	194.3	208.6	222.8	237.0	253.6	265.4	270.2	265.4	251.3
80°	118.5	118.5	128.0	139.8	156.4	168.3	177.7	187.2	194.3	187.2	182.5
82.5°	73.4	73.4	85.3	99.5	111.4	118.5	132.7	144.6	151.7	147.0	139.8
85°	37.9	40.3	49.8	61.6	71.1	75.9	73.4	66.4	59.3	56.9	52.1
87.5°	11.8	11.8	14.3	14.3	11.8	11.8	14.3	11.8	14.3	14.3	14.3
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)