

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: P647103

Luminaire Tested: **GALN-SA8C-835-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647103  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-835-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45862.7 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

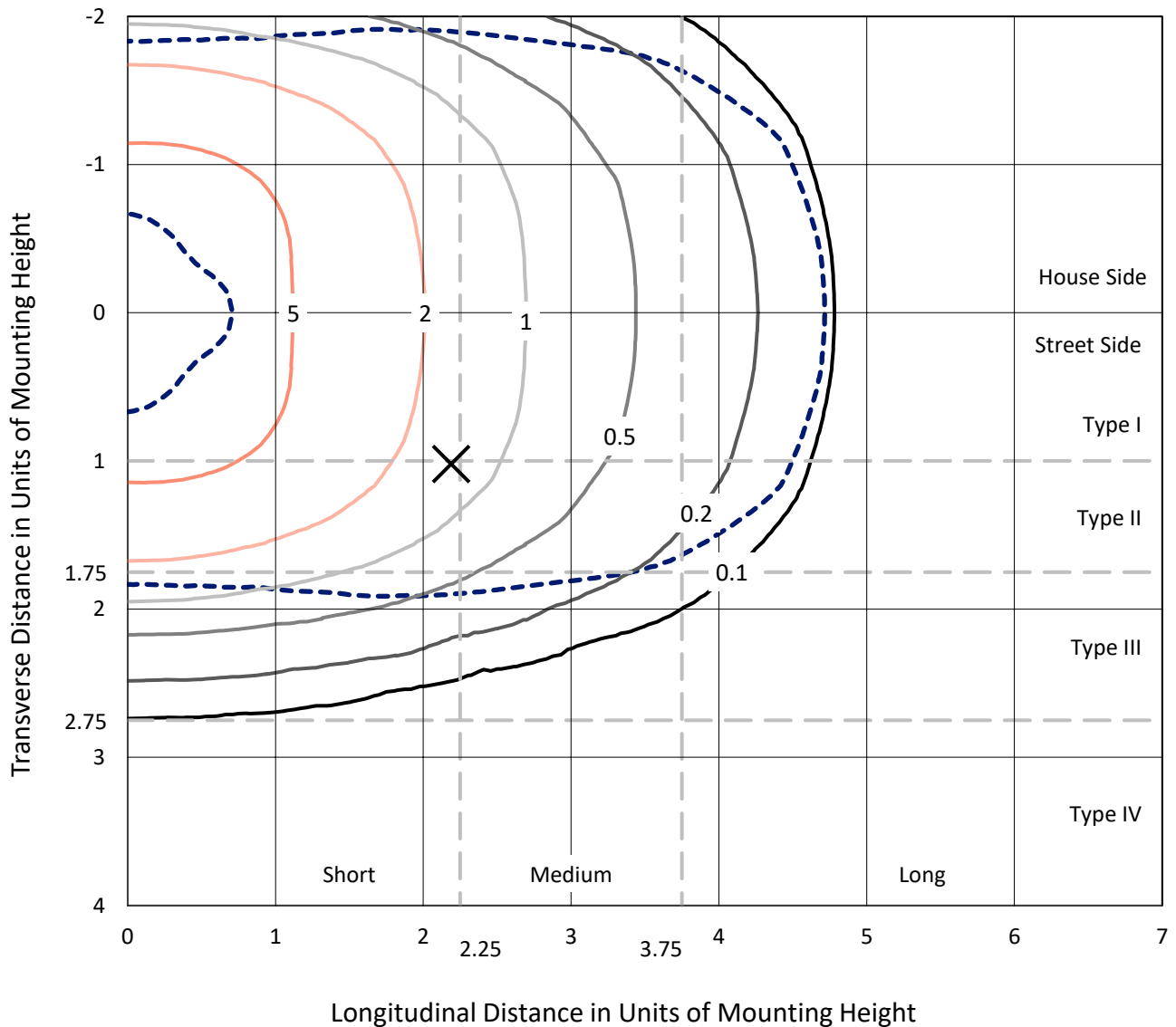
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647103  
 CATALOG NUMBER: GALN-SA8C-835-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

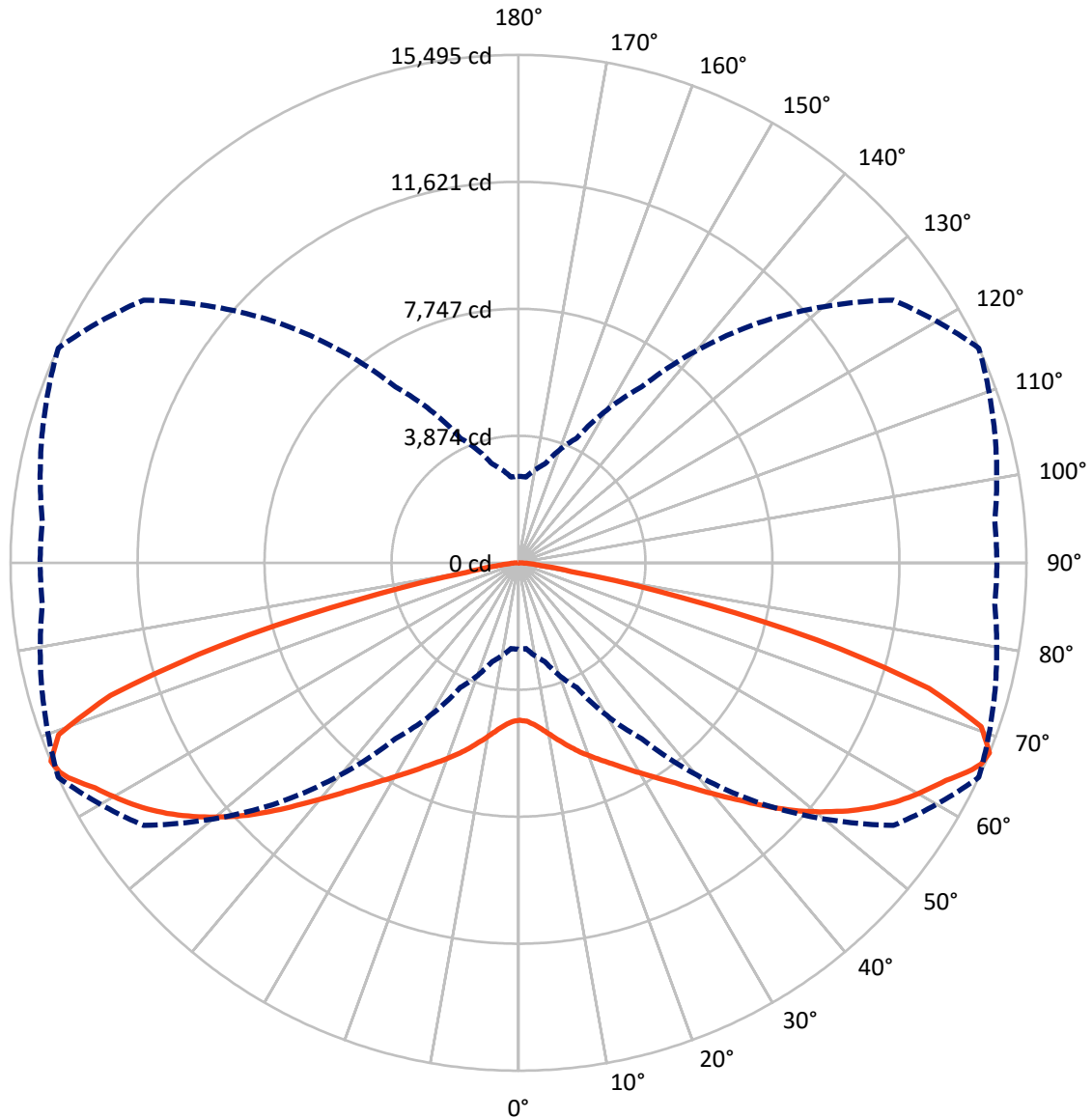
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P647103  
CATALOG NUMBER: GALN-SA8C-835-U-RW

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P647103  
 CATALOG NUMBER: GALN-SA8C-835-U-RW

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22931.3	0.0	22931.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22931.3	0.0	22931.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	45862.7	0.0	45862.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	473.8	1.0
10°-20°	1585.7	3.5
20°-30°	3101.7	6.8
30°-40°	5275.6	11.5
40°-50°	8349.7	18.2
50°-60°	11071.5	24.1
60°-70°	10443.9	22.8
70°-80°	5162.9	11.3
80°-90°	397.9	0.9
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°	45862.7	100.0
0°-180°	45862.7	100.0

**Coefficient of Utilization**

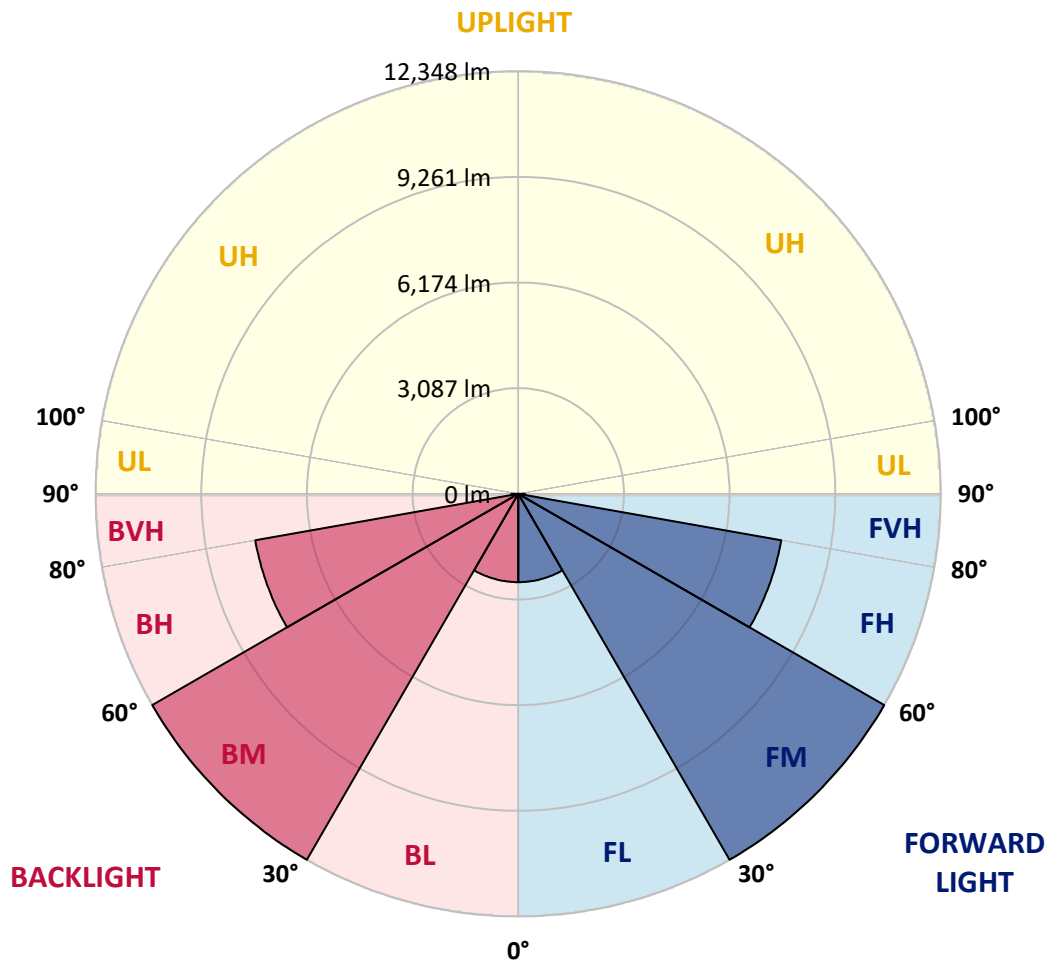


REPORT NUMBER: P647103  
 CATALOG NUMBER: GALN-SA8C-835-U-RW

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2580.6	5.6			
FM (30°-60°)	12348.4	26.9			
FH (60°-80°)	7803.4	17.0			G4/12000
FVH (80°-90°)	198.9	0.4			G2/225
BL (0°-30°)	2580.6	5.6	B4/5000		
BM (30°-60°)	12348.4	26.9	B5		
BH (60°-80°)	7803.4	17.0	B5		G5
BVH (80°-90°)	198.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type III Short





REPORT NUMBER: P647103

CATALOG NUMBER: GALN-SA8C-835-U-RW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4803.7	4803.7	4803.7	4803.7	4803.7	4803.7	4803.7	4803.7	4803.7	4803.7	4803.7
2.5°	4779.1	4784.1	4789.0	4796.3	4806.1	4820.9	4830.7	4838.1	4857.7	4860.2	4857.7
5°	4762.0	4766.8	4779.1	4801.3	4833.2	4877.4	4911.8	4953.6	4985.5	5007.7	5002.7
7.5°	4759.5	4769.3	4789.0	4835.7	4897.1	4973.2	5051.9	5123.2	5184.6	5233.7	5226.4
10°	4798.8	4811.1	4843.0	4911.8	5007.7	5118.2	5228.8	5334.4	5422.9	5486.8	5508.9
12.5°	4865.2	4875.0	4933.9	5037.1	5174.8	5312.3	5437.6	5567.9	5690.8	5798.8	5798.8
15°	4980.6	4997.8	5071.6	5221.4	5391.0	5550.7	5678.5	5816.0	5948.8	6071.6	6108.4
17.5°	5140.3	5164.9	5275.5	5467.1	5683.3	5830.8	5951.2	6064.3	6179.7	6297.7	6314.8
20°	5359.0	5383.6	5531.0	5762.0	6017.5	6194.5	6275.5	6302.6	6359.1	6472.1	6486.8
22.5°	5656.3	5680.9	5845.6	6106.0	6391.0	6582.7	6617.1	6553.2	6538.4	6626.9	6636.7
25°	5993.0	6015.1	6204.3	6484.4	6779.2	6988.1	6978.3	6821.0	6732.5	6786.7	6801.4
27.5°	6371.3	6403.3	6595.0	6884.9	7204.3	7388.6	7359.1	7130.6	6941.5	6931.6	6936.5
30°	6855.4	6889.9	7071.7	7349.3	7663.8	7833.4	7771.9	7464.8	7172.4	7074.1	7074.1
32.5°	7366.5	7452.5	7636.8	7926.7	8172.5	8295.3	8201.9	7833.4	7445.2	7307.5	7300.1
35°	8032.4	8079.1	8260.9	8543.5	8727.8	8823.6	8644.2	8248.6	7801.4	7639.3	7617.1
37.5°	8683.5	8722.9	8934.2	9204.5	9428.0	9423.2	9179.9	8742.5	8243.7	8061.8	8047.1
40°	9349.4	9391.2	9632.0	9880.1	10103.8	10084.1	9789.2	9300.2	8769.5	8565.6	8604.9
42.5°	9926.9	9973.5	10246.3	10600.1	10801.6	10796.7	10455.2	9904.7	9351.8	9170.0	9204.5
45°	10452.7	10494.5	10811.4	11216.9	11511.7	11548.5	11175.1	10592.7	10025.1	9791.7	9801.5
47.5°	10823.7	10902.3	11234.0	11698.4	12099.0	12229.2	11863.1	11293.1	10639.4	10396.1	10410.9
50°	11106.3	11155.4	11516.6	12044.9	12551.1	12821.4	12526.5	11941.7	11253.7	10995.7	11030.1
52.5°	11140.7	11199.6	11592.8	12202.2	12850.8	13261.2	13116.2	12575.6	11880.3	11614.9	11688.6
55°	10860.5	10895.0	11364.3	12103.8	12968.8	13587.9	13624.8	13165.4	12477.3	12275.9	12325.0
57.5°	10062.0	10150.4	10745.1	11644.4	12806.6	13762.5	14005.7	13701.0	13081.8	12882.8	12961.4
60°	8752.3	8840.8	9437.9	10578.0	12194.8	13681.4	14320.2	14175.3	13629.8	13470.0	13511.8
62.5°	6857.9	6850.5	7590.1	8988.2	10978.5	13283.3	14553.6	14632.2	14170.3	13968.9	14032.7
65°	4444.9	4467.1	5182.1	6688.3	9143.0	12270.9	14605.2	15214.6	14701.1	14396.4	14443.1
66°	3575.2	3641.5	4248.4	5636.7	8206.9	11607.5	14450.4	15386.6	14863.2	14494.7	14516.8
67.5°	2638.9	2626.7	3125.5	4196.8	6553.2	10347.0	13966.4	15494.7	15047.5	14583.1	14592.9
70°	1506.3	1503.8	1680.7	2304.8	3852.8	7285.4	11772.2	14976.3	15421.0	14902.5	14875.5
72.5°	1100.8	1093.5	1118.0	1272.8	1879.7	3678.4	8120.9	13089.2	15229.4	14850.9	14774.8
75°	923.9	919.0	914.1	933.7	1054.1	1665.9	4309.8	9415.7	13214.5	13939.4	13860.7
77.5°	754.3	754.3	756.8	751.9	756.8	877.2	1786.3	5047.0	8047.1	8983.3	9202.0
80°	589.7	587.2	629.1	611.8	572.5	562.7	791.2	1624.2	2670.9	2656.2	2191.8
82.5°	434.9	405.4	479.1	466.8	422.7	358.8	462.0	692.9	891.9	579.9	430.0
85°	275.2	272.7	339.1	309.6	258.0	169.5	221.1	297.3	368.6	223.6	181.8
87.5°	49.2	46.7	108.1	78.6	78.6	49.2	61.5	81.1	120.4	83.5	61.5
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)