

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: P459446

Luminaire Tested: **GALN-SA9A-735-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459446  
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-SA9A-735-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39846 lumens  
Efficiency: N/A  
Efficacy: 145.4 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

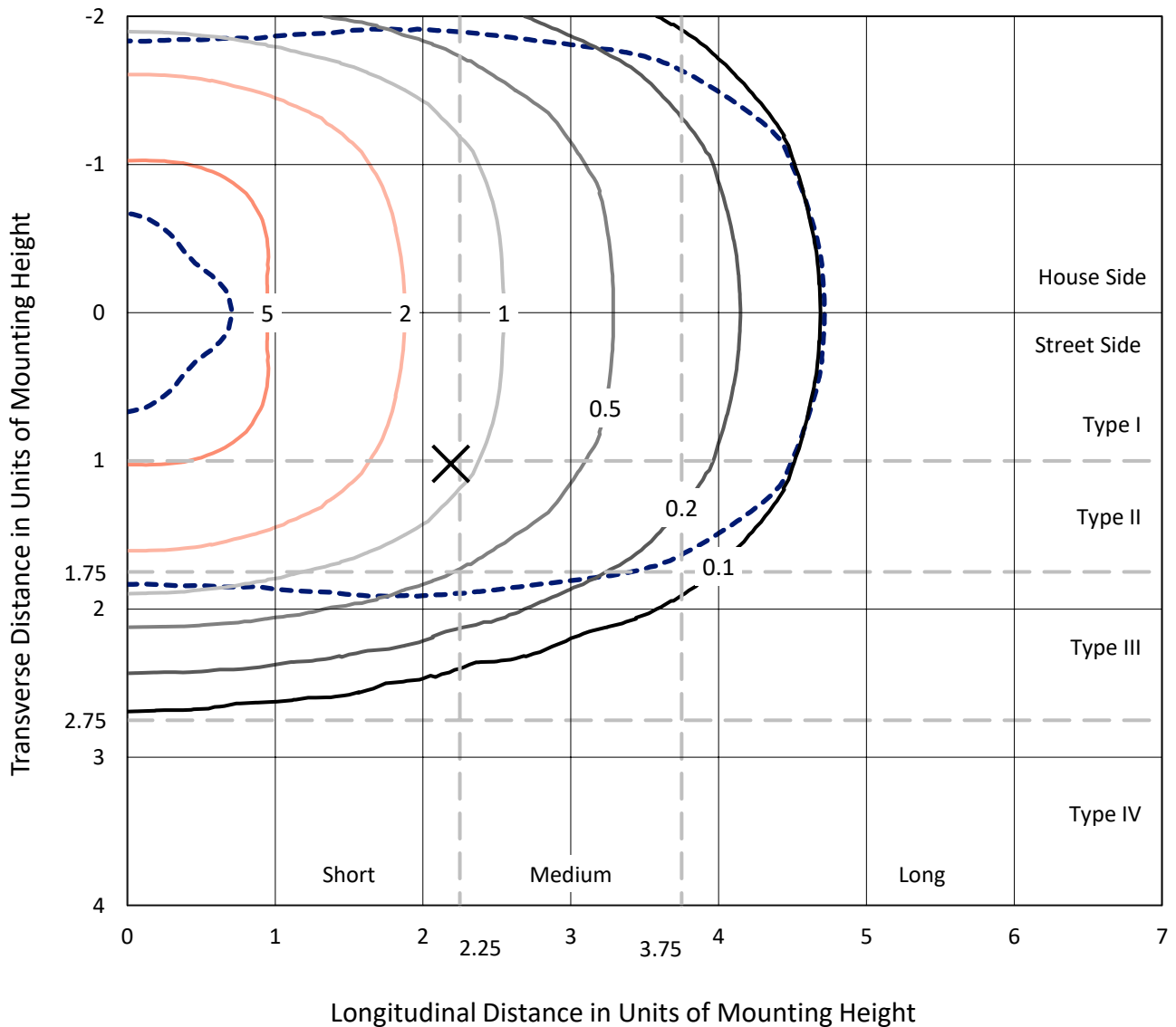
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459446  
 CATALOG NUMBER: GALN-SA9A-735-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

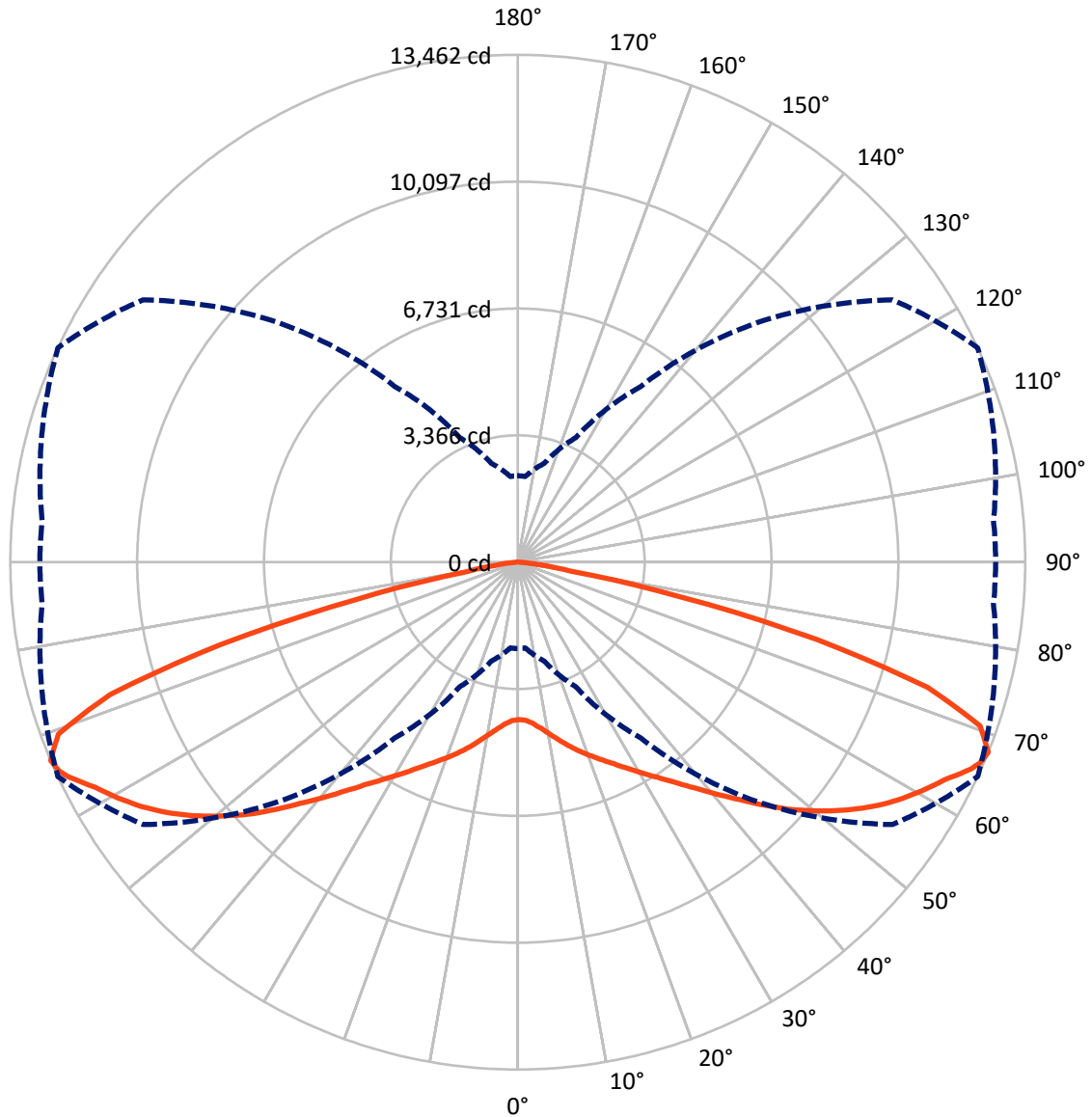
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P459446  
CATALOG NUMBER: GALN-SA9A-735-U-RW

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P459446

CATALOG NUMBER: GALN-SA9A-735-U-RW

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19923.0	0.0	19923.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19923.0	0.0	19923.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39846.0	0.0	39846.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.6	1.0
10°-20°	1377.7	3.5
20°-30°	2694.8	6.8
30°-40°	4583.5	11.5
40°-50°	7254.3	18.2
50°-60°	9619.1	24.1
60°-70°	9073.7	22.8
70°-80°	4485.6	11.3
80°-90°	345.7	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°	39846.0	100.0
0°-180°	39846.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459446

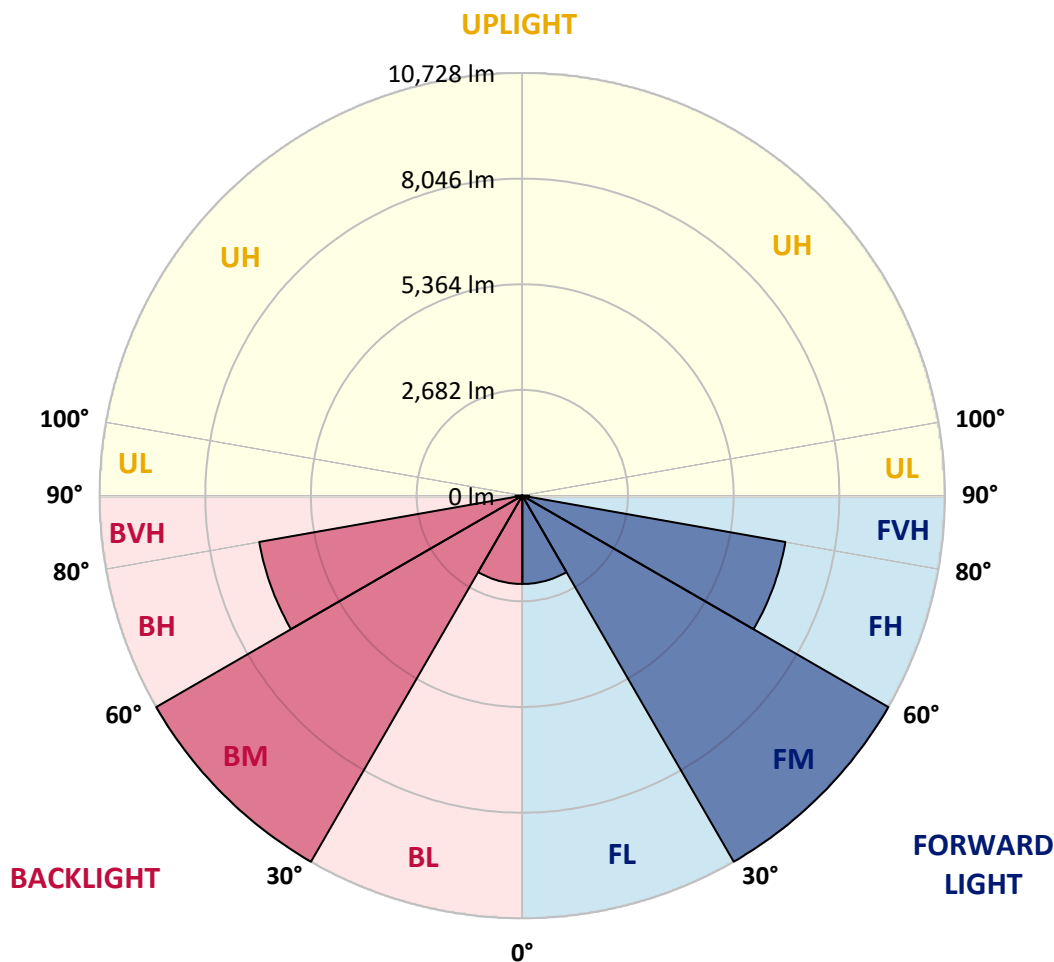
CATALOG NUMBER: GALN-SA9A-735-U-RW

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2242.0	5.6			
FM	(30°-60°)	10728.4	26.9			
FH	(60°-80°)	6779.7	17.0			G3/7500
FVH	(80°-90°)	172.8	0.4			G2/225
BL	(0°-30°)	2242.0	5.6	B3/2500		
BM	(30°-60°)	10728.4	26.9	B5		
BH	(60°-80°)	6779.7	17.0	B5		G5
BVH	(80°-90°)	172.8	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: P459446

CATALOG NUMBER: GALN-SA9A-735-U-RW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4173.5	4173.5	4173.5	4173.5	4173.5	4173.5	4173.5	4173.5	4173.5	4173.5	4173.5
2.5°	4152.2	4156.4	4160.7	4167.1	4175.7	4188.5	4197.0	4203.4	4220.5	4222.6	4220.5
5°	4137.2	4141.5	4152.2	4171.4	4199.1	4237.6	4267.4	4303.7	4331.5	4350.7	4346.4
7.5°	4135.1	4143.6	4160.7	4201.3	4254.6	4320.8	4389.1	4451.0	4504.4	4547.1	4540.7
10°	4169.2	4179.9	4207.7	4267.4	4350.7	4446.8	4542.8	4634.6	4711.5	4767.0	4786.2
12.5°	4226.9	4235.4	4286.7	4376.3	4495.9	4615.4	4724.3	4837.4	4944.2	5038.1	5038.1
15°	4327.2	4342.2	4406.2	4536.4	4683.7	4822.5	4933.5	5053.1	5168.3	5275.1	5307.1
17.5°	4466.0	4487.3	4583.4	4749.9	4937.8	5065.9	5170.5	5268.7	5369.0	5471.5	5486.4
20°	4656.0	4677.3	4805.4	5006.1	5228.1	5381.8	5452.3	5475.7	5524.8	5623.0	5635.8
22.5°	4914.3	4935.6	5078.7	5305.0	5552.6	5719.1	5749.0	5693.5	5680.7	5757.5	5766.1
25°	5206.8	5226.0	5390.3	5633.7	5889.9	6071.3	6062.8	5926.2	5849.3	5896.3	5909.1
27.5°	5535.5	5563.3	5729.8	5981.7	6259.2	6419.3	6393.7	6195.2	6030.8	6022.2	6026.5
30°	5956.1	5986.0	6143.9	6385.2	6658.4	6805.7	6752.3	6485.5	6231.5	6146.1	6146.1
32.5°	6400.1	6474.8	6634.9	6886.8	7100.3	7207.1	7125.9	6805.7	6468.4	6348.9	6342.5
35°	6978.6	7019.2	7177.2	7422.7	7582.8	7666.0	7510.2	7166.5	6778.0	6637.1	6617.9
37.5°	7544.4	7578.5	7762.1	7996.9	8191.2	8186.9	7975.6	7595.6	7162.2	7004.3	6991.4
40°	8122.9	8159.2	8368.4	8584.0	8778.3	8761.2	8505.0	8080.2	7619.1	7441.9	7476.0
42.5°	8624.6	8665.1	8902.1	9209.5	9384.5	9380.3	9083.5	8605.3	8125.0	7967.0	7996.9
45°	9081.4	9117.7	9393.1	9745.3	10001.5	10033.5	9709.0	9203.1	8709.9	8507.1	8515.7
47.5°	9403.8	9472.1	9760.3	10163.7	10511.7	10624.9	10306.8	9811.5	9243.6	9032.3	9045.1
50°	9649.3	9692.0	10005.8	10464.7	10904.5	11139.3	10883.2	10375.1	9777.3	9553.2	9583.1
52.5°	9679.1	9730.4	10071.9	10601.4	11165.0	11521.5	11395.5	10925.9	10321.7	10091.2	10155.2
55°	9435.8	9465.7	9873.4	10516.0	11267.4	11805.4	11837.4	11438.2	10840.5	10665.4	10708.1
57.5°	8742.0	8818.8	9335.4	10116.8	11126.5	11957.0	12168.3	11903.6	11365.6	11192.7	11261.0
60°	7604.1	7681.0	8199.7	9190.3	10595.0	11886.5	12441.6	12315.6	11841.7	11702.9	11739.2
62.5°	5958.2	5951.8	6594.4	7809.1	9538.2	11540.7	12644.4	12712.7	12311.3	12136.3	12191.8
65°	3861.8	3881.1	4502.3	5810.9	7943.6	10661.1	12689.2	13218.6	12772.5	12507.7	12548.3
66°	3106.1	3163.8	3691.1	4897.2	7130.2	10084.8	12554.7	13368.1	12913.4	12593.1	12612.3
67.5°	2292.8	2282.1	2715.5	3646.2	5693.5	8989.6	12134.2	13462.0	13073.5	12670.0	12678.5
70°	1308.6	1306.5	1460.2	2002.4	3347.4	6329.7	10227.8	13011.6	13398.0	12947.5	12924.0
72.5°	956.4	950.0	971.3	1105.8	1633.1	3195.8	7055.5	11372.0	13231.4	12902.7	12836.5
75°	802.7	798.4	794.1	811.2	915.8	1447.4	3744.4	8180.5	11480.9	12110.7	12042.4
77.5°	655.4	655.4	657.5	653.2	657.5	762.1	1552.0	4384.9	6991.4	7804.8	7994.8
80°	512.3	510.2	546.5	531.6	497.4	488.9	687.4	1411.1	2320.5	2307.7	1904.2
82.5°	377.9	352.2	416.3	405.6	367.2	311.7	401.3	602.0	774.9	503.8	373.6
85°	239.1	237.0	294.6	269.0	224.2	147.3	192.1	258.3	320.2	194.3	158.0
87.5°	42.7	40.6	93.9	68.3	68.3	42.7	53.4	70.4	104.6	72.6	53.4
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)