

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: P533581

Luminaire Tested: **GALN-SA9A-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533581  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-735-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20145 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

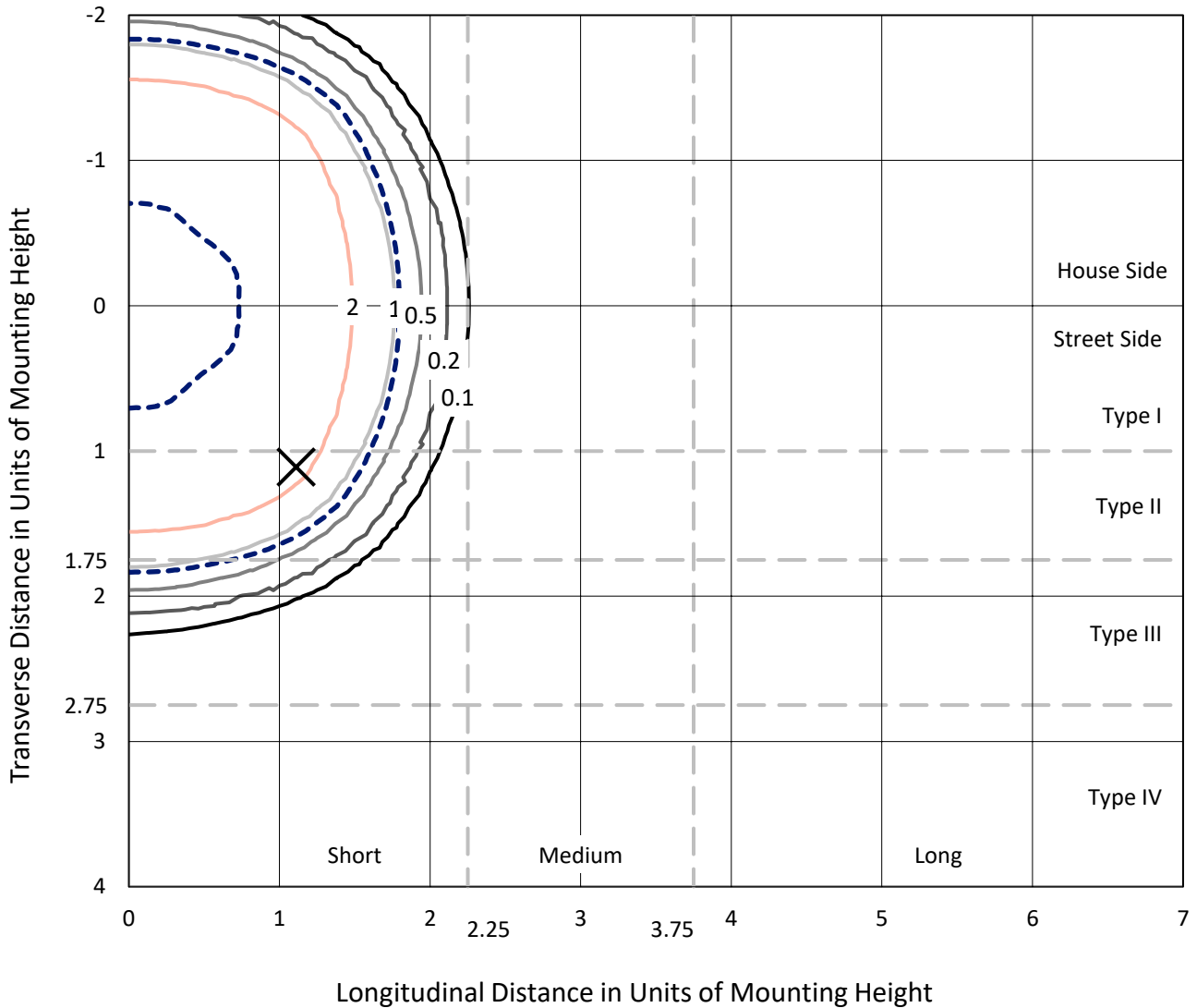
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

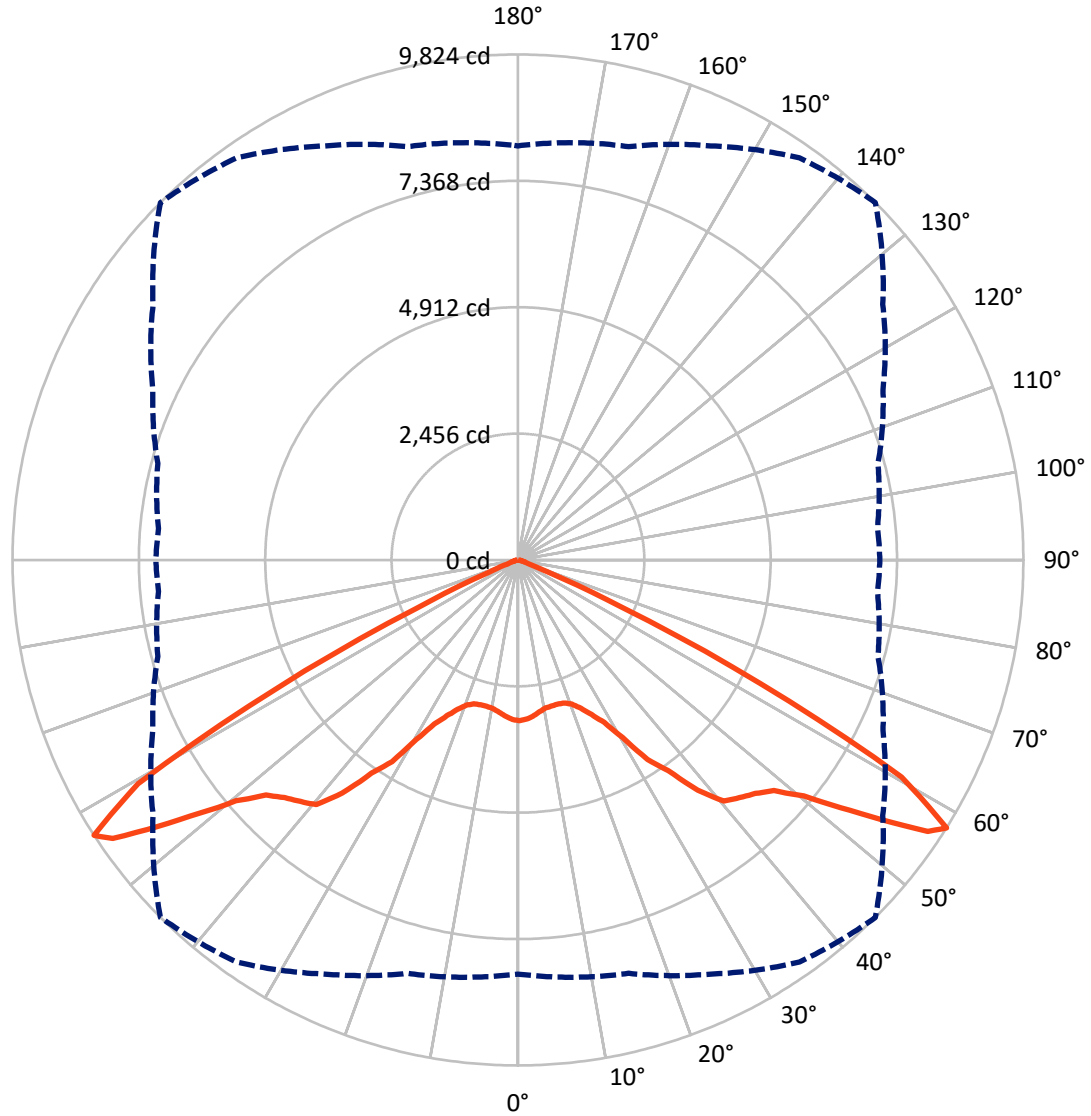
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10072.5	0.0	10072.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10072.5	0.0	10072.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20145.0	0.0	20145.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.1	1.4
10°-20°	830.0	4.1
20°-30°	1532.0	7.6
30°-40°	3012.9	15.0
40°-50°	4907.2	24.4
50°-60°	6998.3	34.7
60°-70°	2423.0	12.0
70°-80°	130.0	0.6
80°-90°	24.4	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°	20145.0	100.0
0°-180°	20145.0	100.0

**Coefficient of Utilization**

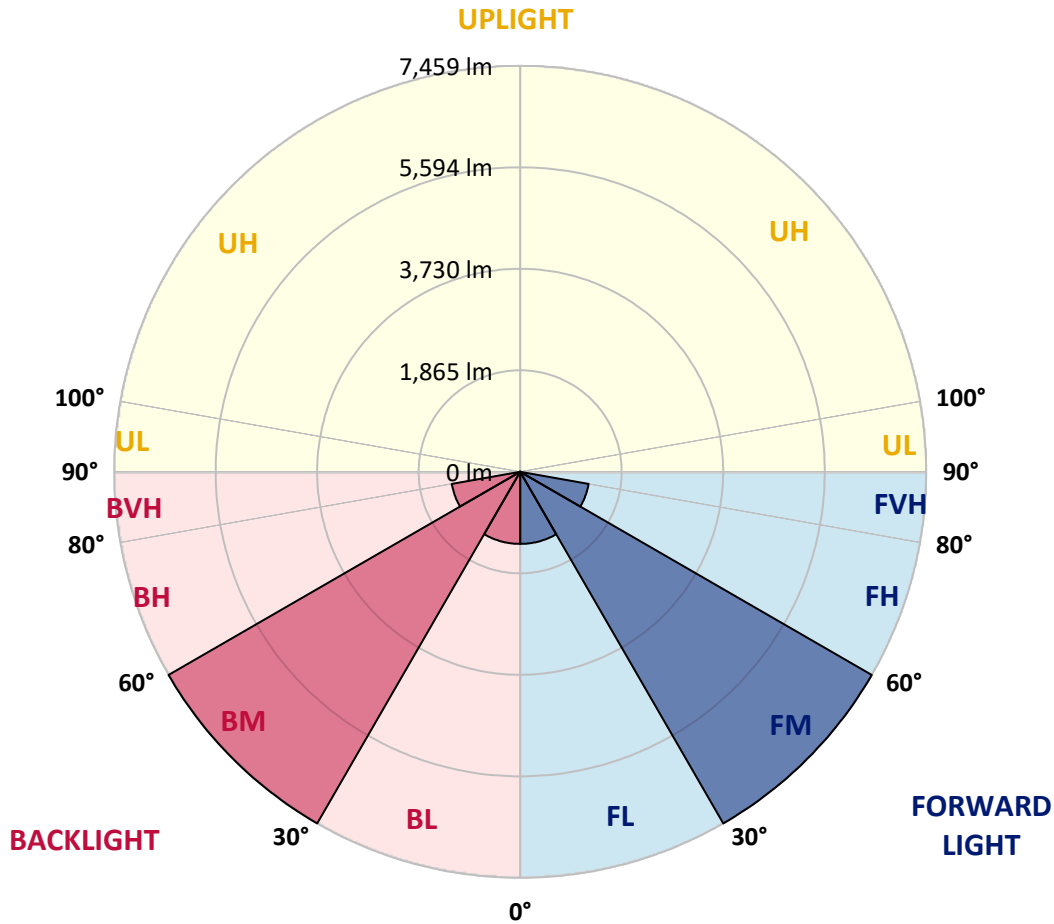


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.6	6.6			
FM (30°-60°)	7459.2	37.0			
FH (60°-80°)	1276.5	6.3			G1/1800
FVH (80°-90°)	12.2	0.1			G1/100
BL (0°-30°)	1324.6	6.6	B3/2500		
BM (30°-60°)	7459.2	37.0	B4/8500		
BH (60°-80°)	1276.5	6.3	B3/2500		G1/1800
BVH (80°-90°)	12.2	0.1			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3124.7	3124.7	3124.7	3124.7	3124.7	3124.7	3124.7	3124.7	3124.7	3124.7	3124.7
2.5°	3116.3	3133.1	3112.1	3103.7	3099.5	3099.5	3086.9	3086.9	3082.7	3086.9	3070.1
5°	3065.9	3082.7	3082.7	3078.5	3053.3	3049.1	3036.5	3028.1	3032.3	3015.5	3028.1
7.5°	3015.5	3028.1	3011.3	3007.1	2998.7	2981.9	2977.7	2939.9	2944.1	2944.1	2952.5
10°	3007.1	3002.9	2977.7	2956.7	2931.5	2927.3	2914.7	2906.3	2906.3	2902.1	2914.7
12.5°	3007.1	2986.1	2981.9	2935.7	2893.7	2910.5	2876.9	2855.9	2885.3	2893.7	2910.5
15°	3002.9	3023.9	2952.5	2931.5	2902.1	2906.3	2876.9	2855.9	2872.7	2881.1	2893.7
17.5°	3028.1	3015.5	2994.5	2952.5	2939.9	2923.1	2885.3	2868.5	2868.5	2889.5	2893.7
20°	3095.3	3061.7	3019.7	2998.7	3011.3	2990.3	2944.1	2881.1	2897.9	2914.7	2927.3
22.5°	3158.3	3133.1	3103.7	3091.1	3162.5	3128.9	3049.1	2977.7	2952.5	2981.9	3002.9
25°	3280.1	3280.1	3225.5	3242.3	3322.1	3326.3	3233.9	3107.9	3091.1	3103.7	3112.1
27.5°	3527.9	3540.5	3494.3	3511.1	3544.7	3574.1	3494.3	3389.3	3351.5	3347.3	3359.9
30°	3796.7	3821.9	3817.7	3889.1	3985.7	4002.5	3884.9	3712.7	3599.3	3578.3	3595.1
32.5°	4149.5	4162.1	4153.7	4237.7	4498.1	4619.9	4313.3	4069.7	3918.5	3956.3	3918.5
35°	4813.0	4800.4	4708.1	4724.8	4939.0	5027.2	4733.2	4577.9	4506.5	4582.1	4565.3
37.5°	5384.2	5338.0	5262.4	5371.6	5594.2	5674.0	5367.4	5094.4	4964.2	5090.2	5144.8
40°	5867.2	5749.6	5644.6	5753.8	6052.0	6161.2	5711.8	5489.2	5438.8	5531.2	5648.8
42.5°	6274.6	6199.0	6060.4	6068.8	6266.2	6316.6	5955.4	5825.2	5774.8	5921.8	5980.6
45°	6564.4	6493.0	6362.8	6354.4	6505.6	6472.0	6148.6	6060.4	6089.8	6186.4	6215.8
47.5°	6711.4	6749.2	6673.6	6694.6	6774.4	6694.6	6438.4	6438.4	6371.2	6430.0	6400.6
50°	7135.6	7018.0	7114.6	7114.6	7198.6	7207.0	6950.8	6858.4	6677.8	6577.0	6577.0
52.5°	7631.2	7639.6	7677.4	7816.0	7958.7	8080.5	7715.2	7320.4	7018.0	6887.8	6871.0
55°	8038.5	8122.5	8273.7	8534.1	8945.7	9113.7	8483.7	7778.2	7408.6	7207.0	7165.0
56°	8261.1	8181.3	8441.7	8798.7	9336.3	9554.7	8609.7	7870.5	7463.2	7236.4	7232.2
57.5°	8046.9	8135.1	8315.7	8878.5	9537.9	9823.5	8655.9	7828.6	7244.8	7013.8	7034.8
60°	6354.4	6438.4	6682.0	7312.0	8345.1	8567.7	7324.6	6455.2	5934.4	5602.6	5606.8
62.5°	3595.1	3658.1	3847.1	4430.9	5073.4	5287.6	4565.3	3985.7	3624.5	3439.7	3380.9
65°	1323.0	1297.8	1327.2	1625.3	2020.1	2200.7	1898.3	1604.3	1415.4	1348.2	1323.0
67.5°	495.6	457.8	428.4	457.8	575.4	609.0	558.6	466.2	436.8	449.4	457.8
70°	306.6	289.8	231.0	218.4	214.2	210.0	222.6	235.2	268.8	315.0	323.4
72.5°	214.2	201.6	163.8	155.4	147.0	142.8	163.8	180.6	210.0	243.6	247.8
75°	84.0	88.2	84.0	92.4	96.6	100.8	117.6	130.2	142.8	142.8	138.6
77.5°	16.8	16.8	25.2	33.6	42.0	54.6	79.8	92.4	96.6	92.4	79.8
80°	0.0	0.0	8.4	16.8	33.6	46.2	71.4	79.8	88.2	79.8	63.0
82.5°	0.0	0.0	8.4	21.0	33.6	42.0	67.2	84.0	96.6	88.2	67.2
85°	0.0	0.0	8.4	16.8	25.2	29.4	29.4	21.0	21.0	12.6	8.4
87.5°	0.0	0.0	0.0	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)