

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: P457906

Luminaire Tested: **GALN-SA9B-740-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457906  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53989 lumens  
Efficiency: N/A  
Efficacy: 148.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

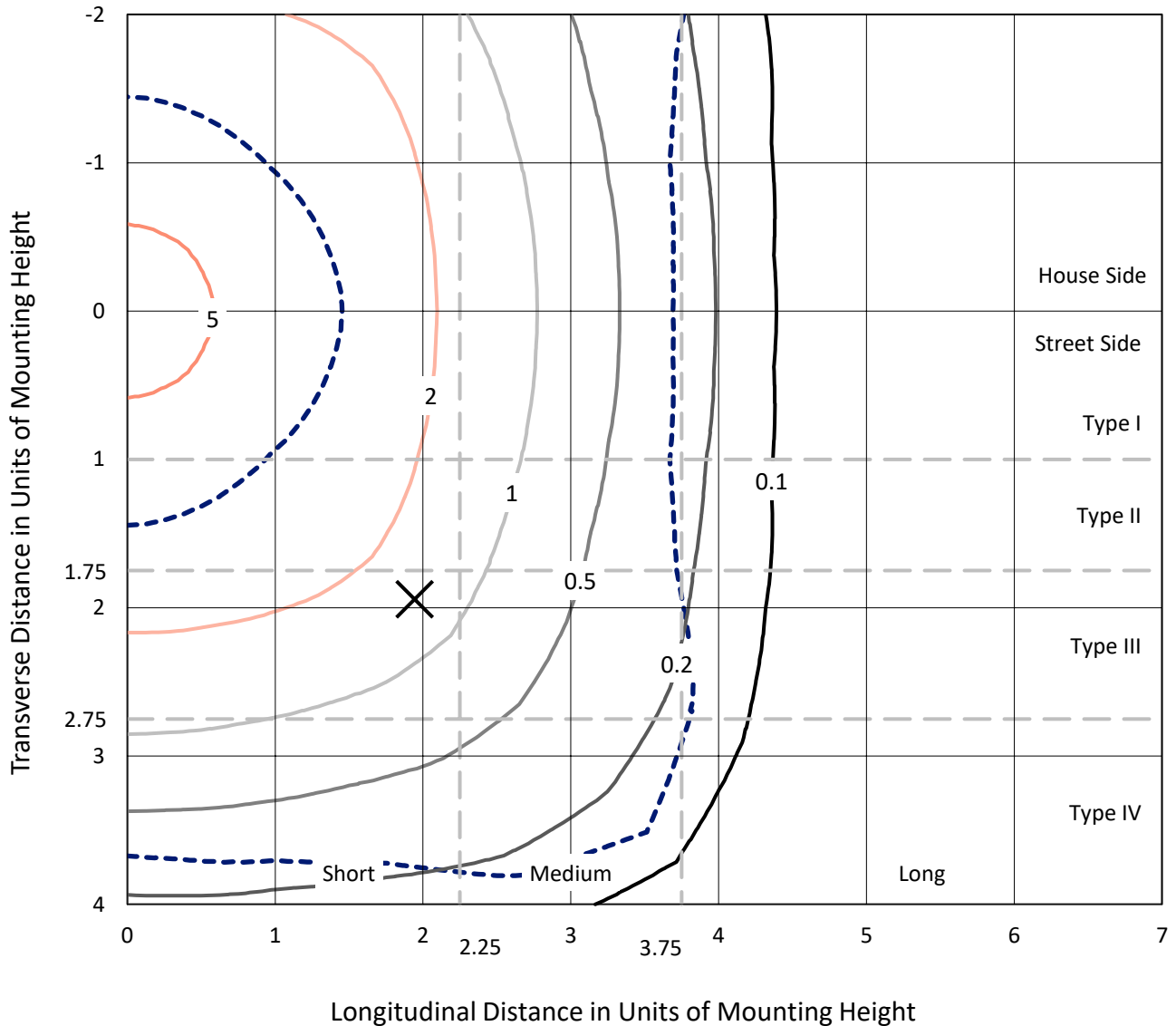
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

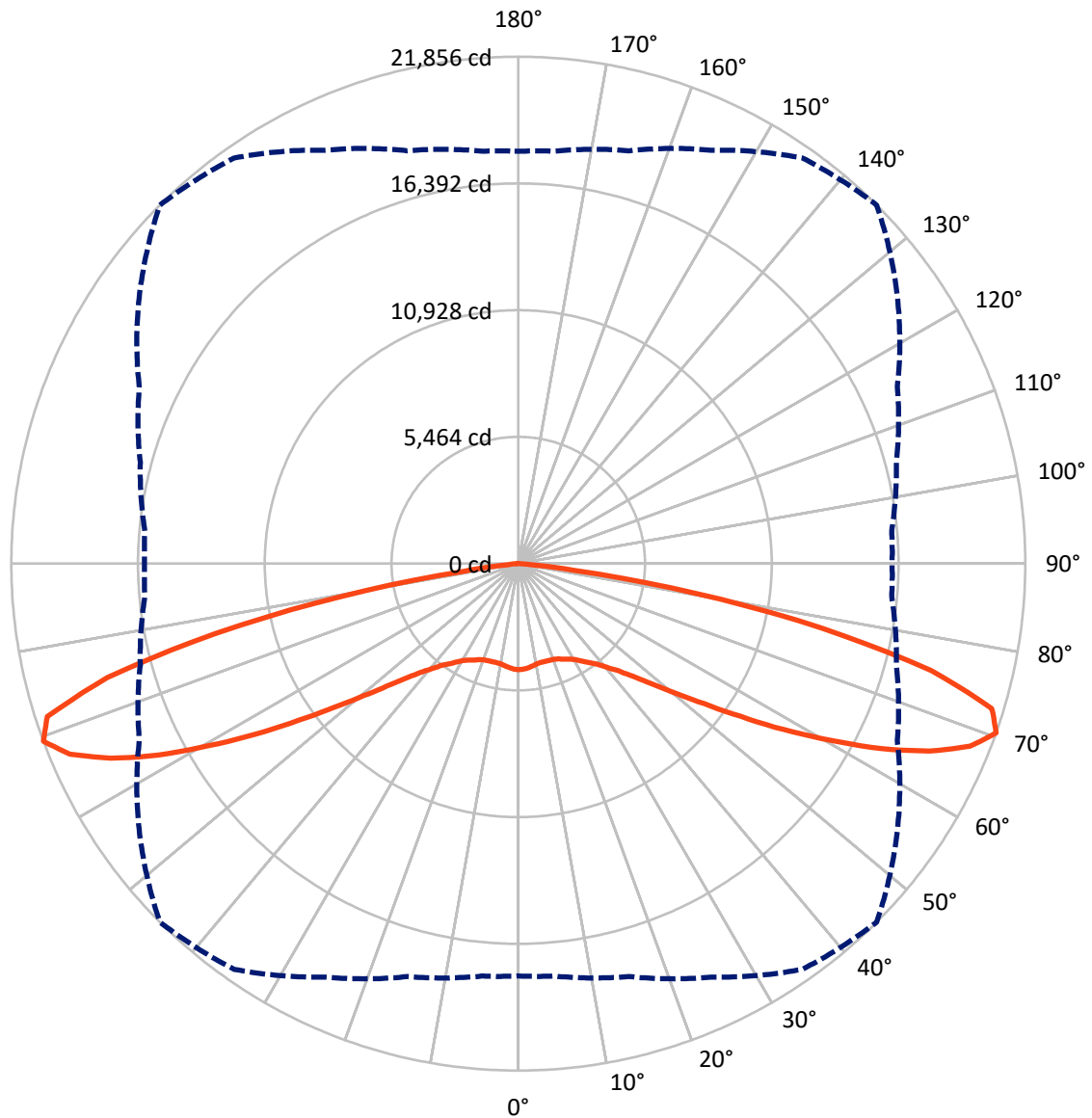
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26994.5	0.0	26994.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26994.5	0.0	26994.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	53989.0	0.0	53989.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.5	0.8
10°-20°	1251.4	2.3
20°-30°	2132.1	3.9
30°-40°	3304.7	6.1
40°-50°	5562.4	10.3
50°-60°	10120.4	18.7
60°-70°	17133.7	31.7
70°-80°	13262.1	24.6
80°-90°	794.7	1.5
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°	53989.0	100.0
0°-180°	53989.0	100.0

**Coefficient of Utilization**



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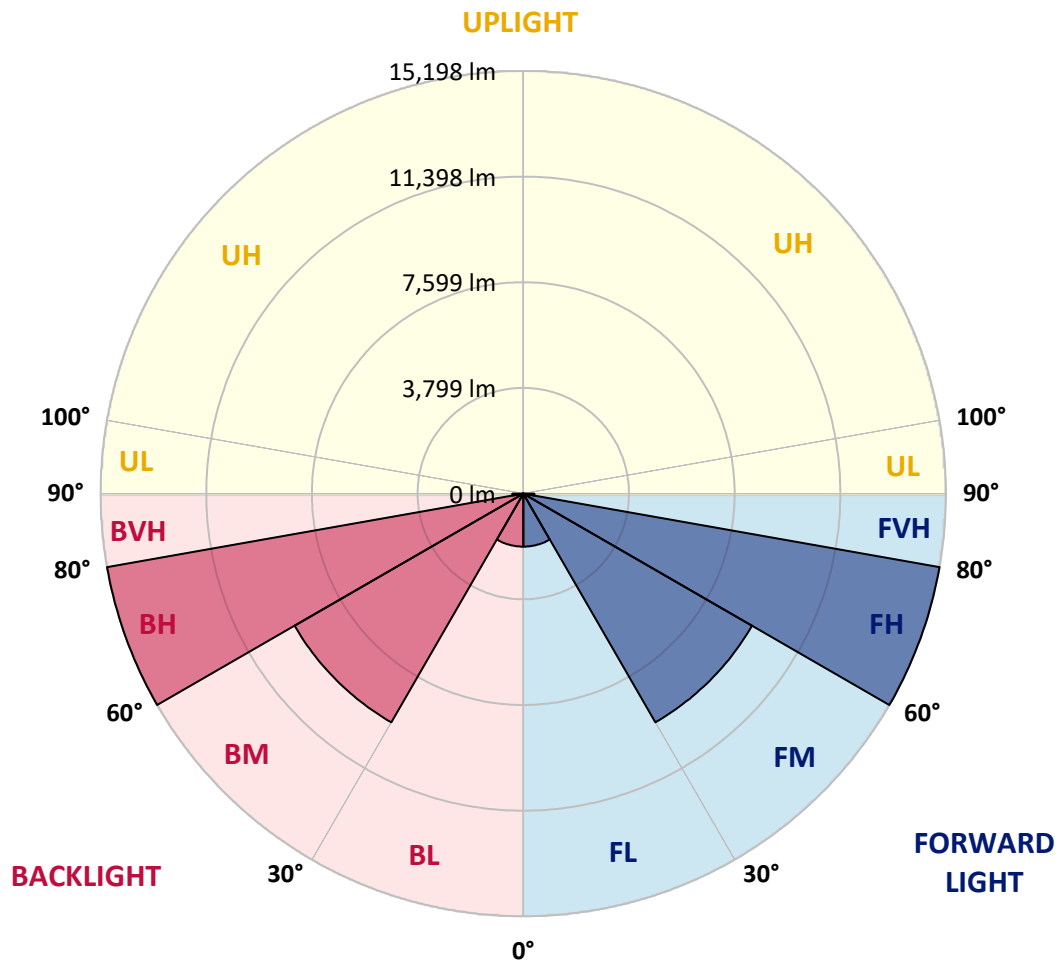
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1905.5	3.5			
FM (30°-60°)	9493.8	17.6			
FH (60°-80°)	15197.9	28.1			G5
FVH (80°-90°)	397.3	0.7			G3/500
BL (0°-30°)	1905.5	3.5	B3/2500		
BM (30°-60°)	9493.8	17.6	B5		
BH (60°-80°)	15197.9	28.1	B5		G5
BVH (80°-90°)	397.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8	4570.8
2.5°	4559.4	4562.3	4562.3	4556.6	4553.7	4553.7	4550.9	4550.9	4559.4	4562.3	4565.1
5°	4519.5	4519.5	4519.5	4516.7	4511.0	4511.0	4505.2	4505.2	4508.1	4516.7	4511.0
7.5°	4465.3	4471.0	4471.0	4459.6	4451.1	4451.1	4448.2	4451.1	4453.9	4462.5	4459.6
10°	4448.2	4451.1	4436.8	4416.9	4402.6	4394.0	4396.9	4402.6	4416.9	4422.6	4425.4
12.5°	4459.6	4459.6	4434.0	4405.4	4379.8	4368.4	4365.5	4385.5	4411.2	4428.3	4434.0
15°	4473.9	4468.2	4436.8	4399.7	4374.1	4371.2	4368.4	4382.6	4419.7	4453.9	4456.8
17.5°	4482.4	4479.6	4439.7	4394.0	4379.8	4379.8	4376.9	4388.3	4428.3	4471.0	4473.9
20°	4511.0	4502.4	4456.8	4408.3	4396.9	4402.6	4394.0	4408.3	4451.1	4502.4	4513.8
22.5°	4568.0	4559.4	4513.8	4465.3	4459.6	4459.6	4456.8	4471.0	4516.7	4570.8	4579.4
25°	4636.4	4627.9	4585.1	4550.9	4556.6	4568.0	4562.3	4565.1	4602.2	4647.8	4662.1
27.5°	4727.7	4713.4	4676.3	4647.8	4664.9	4664.9	4664.9	4662.1	4684.9	4727.7	4741.9
30°	4838.9	4833.2	4793.2	4790.4	4804.6	4790.4	4790.4	4793.2	4796.1	4836.0	4850.3
32.5°	4984.3	4972.9	4952.9	4947.2	4987.1	4998.5	4958.6	4921.6	4941.5	4981.4	4990.0
35°	5223.8	5206.7	5178.2	5146.8	5178.2	5232.4	5146.8	5118.3	5169.6	5223.8	5229.5
37.5°	5548.9	5540.3	5494.7	5437.7	5434.8	5491.8	5403.4	5400.6	5497.5	5563.1	5571.7
40°	5956.6	5965.2	5908.1	5854.0	5825.5	5871.1	5802.6	5828.3	5922.4	5996.5	5990.8
42.5°	6529.8	6498.4	6410.0	6358.7	6327.3	6310.2	6293.1	6333.0	6438.5	6518.4	6581.1
45°	7199.8	7188.4	7077.2	7014.5	6946.1	6920.4	6914.7	6986.0	7114.3	7211.2	7219.8
47.5°	7958.3	7932.7	7861.4	7795.8	7770.1	7738.8	7710.2	7764.4	7892.7	7961.2	7981.1
50°	8739.6	8745.3	8745.3	8733.9	8759.6	8765.3	8688.3	8708.2	8779.5	8773.8	8768.1
52.5°	9632.1	9663.5	9811.7	9826.0	9948.6	10031.3	9891.6	9808.9	9783.2	9629.3	9640.7
55°	10681.4	10709.9	10932.4	11154.8	11485.5	11625.2	11331.6	11074.9	10892.4	10658.6	10670.0
57.5°	11990.2	12004.5	12215.5	12643.2	13167.9	13495.8	12979.7	12472.1	12101.4	11879.0	11790.6
60°	13398.8	13413.1	13721.0	14242.9	15058.4	15457.6	14818.8	13989.1	13521.4	13182.1	13204.9
62.5°	15089.7	15146.8	15423.3	16141.9	17131.3	17579.0	16732.1	15622.9	14989.9	14567.9	14585.0
65°	16900.4	16997.3	17299.6	18089.4	19001.9	19483.8	18445.9	17165.6	16378.6	15862.5	15916.6
67.5°	18075.2	18160.7	18597.0	19469.5	20607.2	21006.4	19666.3	18175.0	17191.2	16575.3	16461.3
70°	17775.8	17847.1	18428.7	19666.3	21351.5	21856.2	19957.1	18026.7	16869.0	16159.0	16113.4
72.5°	15691.4	15543.1	16392.8	18169.3	20501.7	21348.6	19041.8	16464.1	15007.0	14277.1	14191.5
75°	10399.1	10721.3	11976.0	14068.9	17345.2	18394.5	16253.1	13219.2	11385.7	10778.4	10684.3
77.5°	3475.9	3724.0	4838.9	7975.4	11824.8	13401.7	11842.0	8645.5	6116.3	4927.3	4950.1
80°	921.0	909.6	1177.6	2192.7	5109.7	7761.6	5948.1	2928.4	1602.5	1160.5	1100.6
82.5°	330.8	370.7	476.2	607.4	1354.4	2412.3	1702.3	821.2	601.7	444.8	430.6
85°	145.4	142.6	205.3	242.4	339.3	450.5	399.2	347.9	305.1	202.5	188.2
87.5°	31.4	31.4	48.5	37.1	59.9	59.9	74.1	88.4	91.2	59.9	48.5
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)