

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: P534050

Luminaire Tested: **GALN-SA9C-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-735-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50370 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

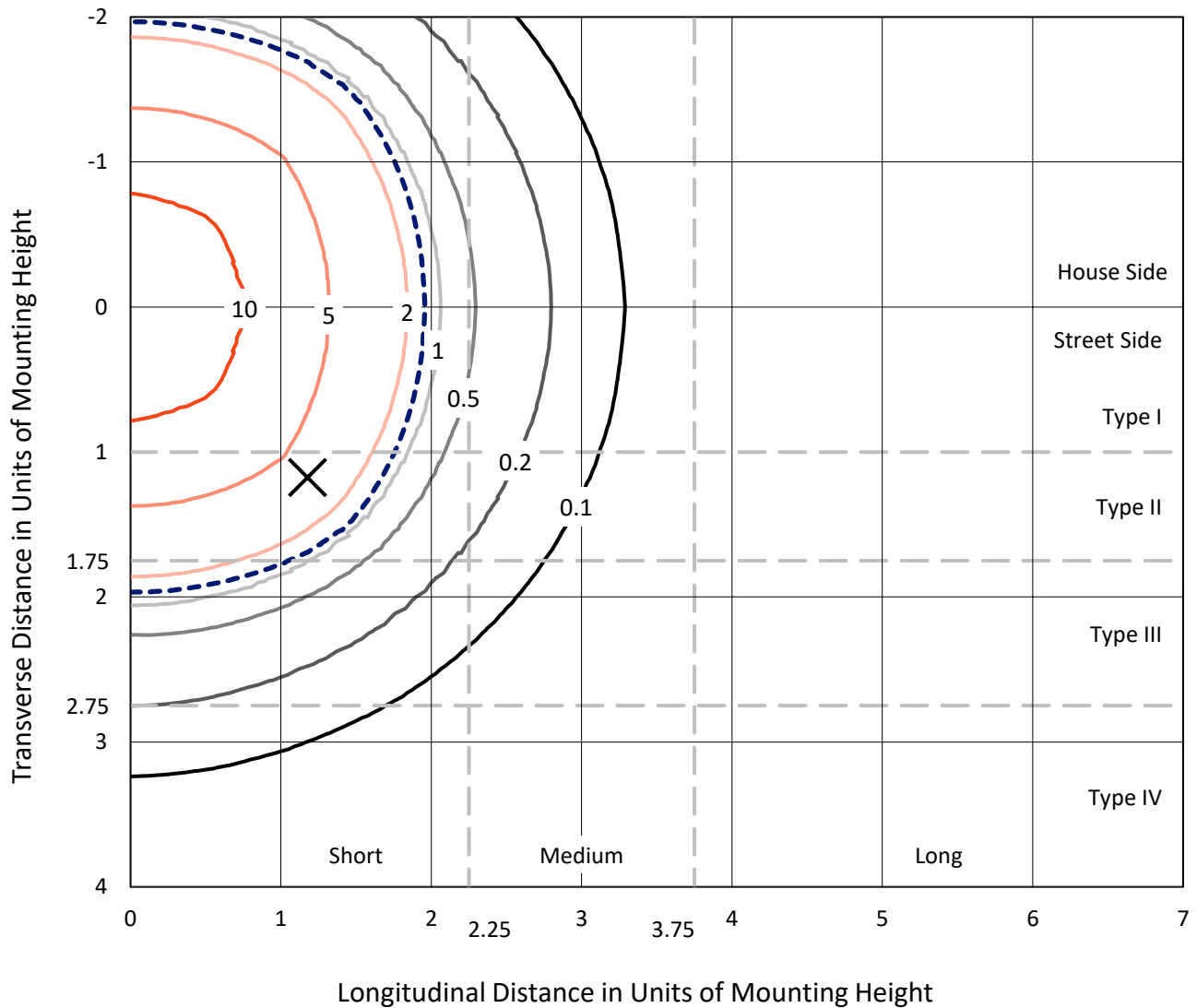
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

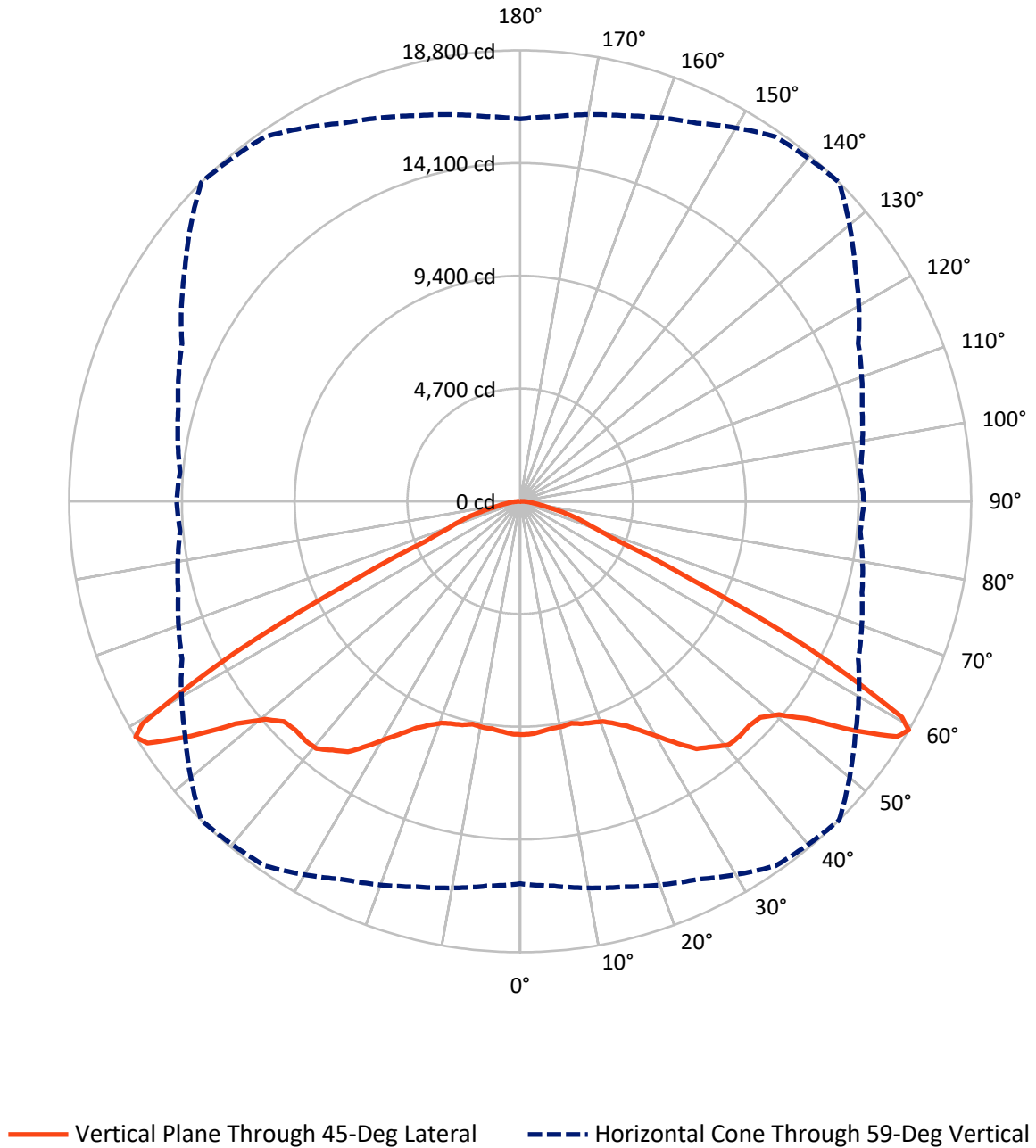
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25185.0	0.0	25185.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25185.0	0.0	25185.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	50370.0	0.0	50370.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	917.1	1.8
10°-20°	2727.4	5.4
20°-30°	4762.4	9.5
30°-40°	7606.2	15.1
40°-50°	10361.2	20.6
50°-60°	14011.1	27.8
60°-70°	7683.7	15.3
70°-80°	1965.7	3.9
80°-90°	335.3	0.7
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°	50370.0	100.0
0°-180°	50370.0	100.0

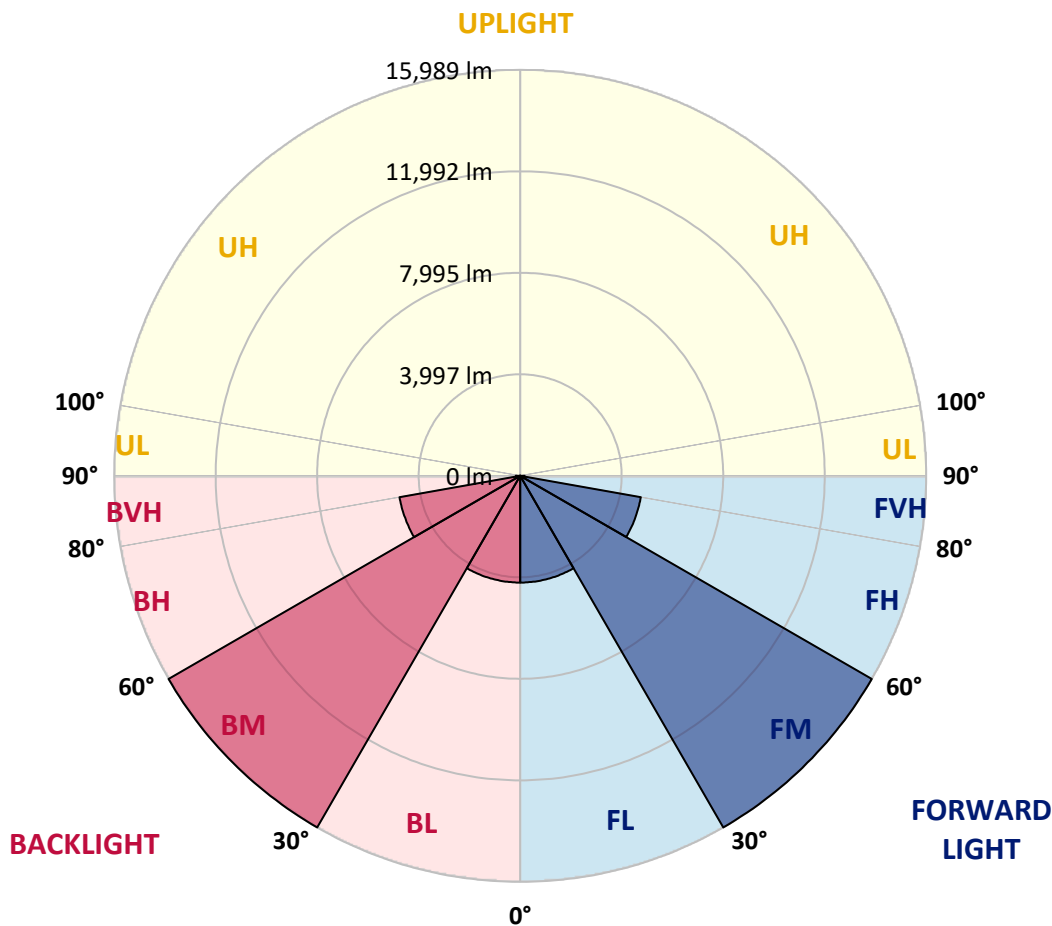


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4203.5	8.3			
FM (30°-60°)	15989.2	31.7			
FH (60°-80°)	4824.7	9.6			G2/5000
FVH (80°-90°)	167.6	0.3			G2/225
BL (0°-30°)	4203.5	8.3	B4/5000		
BM (30°-60°)	15989.2	31.7	B5		
BH (60°-80°)	4824.7	9.6	B4/5000		G2/5000
BVH (80°-90°)	167.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9729.1	9729.1	9729.1	9729.1	9729.1	9729.1	9729.1	9729.1	9729.1	9729.1	9729.1
2.5°	9671.0	9742.0	9690.3	9735.5	9729.1	9709.7	9677.4	9658.1	9632.2	9671.0	9606.4
5°	9632.2	9690.3	9748.4	9671.0	9671.0	9632.2	9612.9	9574.1	9574.1	9567.7	9561.2
7.5°	9696.8	9638.7	9612.9	9625.8	9638.7	9554.8	9612.9	9535.4	9470.8	9516.0	9567.7
10°	9638.7	9664.5	9567.7	9612.9	9541.9	9554.8	9516.0	9567.7	9496.7	9496.7	9496.7
12.5°	9696.8	9625.8	9658.1	9625.8	9606.4	9496.7	9548.3	9490.2	9483.8	9548.3	9490.2
15°	9813.0	9696.8	9671.0	9606.4	9625.8	9625.8	9574.1	9580.6	9509.6	9548.3	9561.2
17.5°	9774.3	9709.7	9690.3	9612.9	9677.4	9696.8	9600.0	9535.4	9580.6	9574.1	9567.7
20°	9806.5	9832.4	9813.0	9825.9	9851.7	9800.1	9709.7	9619.3	9561.2	9645.1	9638.7
22.5°	10013.1	9987.3	9974.4	9961.5	10006.7	10058.3	9935.7	9793.6	9793.6	9851.7	9877.6
25°	10181.0	10174.5	10168.1	10226.2	10381.1	10381.1	10226.2	10045.4	10000.2	10039.0	10006.7
27.5°	10426.3	10497.3	10471.5	10574.8	10800.8	10852.4	10645.8	10432.8	10310.1	10264.9	10323.0
30°	10988.0	10904.1	10923.4	11033.2	11233.3	11401.2	11084.8	10858.9	10691.0	10684.6	10710.4
32.5°	11362.4	11427.0	11485.1	11588.4	11904.7	12033.8	11652.9	11285.0	11181.7	11123.6	11142.9
35°	12111.3	12053.2	12040.3	12143.6	12459.9	12673.0	12195.2	11872.4	11736.9	11866.0	11866.0
37.5°	12821.5	12660.1	12537.4	12673.0	12963.5	12989.3	12582.6	12408.3	12337.3	12485.8	12479.3
40°	13157.2	13144.3	12860.2	12937.7	13325.0	13363.8	12982.9	12776.3	12763.4	12957.0	13150.7
42.5°	13505.8	13383.1	13099.1	13150.7	13389.6	13402.5	13041.0	12982.9	13124.9	13312.1	13325.0
45°	13563.9	13460.6	13279.8	13150.7	13325.0	13363.8	13150.7	13189.4	13202.4	13428.3	13428.3
47.5°	13680.1	13667.2	13563.9	13467.1	13499.3	13467.1	13331.5	13389.6	13583.3	13693.0	13641.4
50°	14002.9	13867.3	13970.6	13886.7	13893.1	13983.5	13860.9	13919.0	13880.2	13783.4	13718.8
52.5°	14713.0	14648.5	14738.9	14797.0	14861.5	15068.1	14926.1	14616.2	14325.7	14067.5	14061.0
55°	15752.5	15797.6	15972.0	16268.9	16520.7	16850.0	16165.6	15423.2	14958.4	14551.6	14577.5
57.5°	16733.8	16701.5	16940.3	17618.2	18354.2	18522.0	17179.2	16120.4	15365.1	15106.9	14997.1
59°	15946.1	16101.1	16643.4	17398.7	18554.3	18799.6	17043.6	15552.3	14751.8	14228.9	14319.2
60°	14706.6	14764.7	15248.9	16301.2	17863.5	18283.2	16133.4	14674.3	13609.1	13305.7	13441.2
62.5°	10394.0	10348.8	10697.5	11556.1	12957.0	13525.2	11995.1	10968.6	10297.2	9961.5	10039.0
65°	5526.3	5732.9	5874.9	6410.7	7153.2	7753.6	7120.9	6675.4	6301.0	6023.4	6016.9
67.5°	3731.5	3705.7	3738.0	3860.6	4112.4	4280.3	4267.4	4041.4	4009.1	3957.5	4015.6
70°	3144.0	3131.1	3073.0	3073.0	3124.7	3163.4	3208.6	3234.4	3286.1	3350.6	3344.2
72.5°	2550.1	2517.8	2479.1	2459.7	2524.3	2543.6	2601.7	2627.6	2672.8	2666.3	2724.4
75°	1685.0	1685.0	1730.2	1781.8	1801.2	1839.9	1846.4	1923.9	1923.9	1936.8	1885.1
77.5°	942.6	916.7	949.0	1000.7	1045.9	1116.9	1187.9	1246.0	1278.3	1265.4	1265.4
80°	548.8	548.8	581.0	639.1	697.2	761.8	813.4	858.6	890.9	878.0	852.2
82.5°	342.2	342.2	374.4	432.5	477.7	516.5	587.5	645.6	684.3	671.4	639.1
85°	174.3	174.3	213.0	251.8	309.9	335.7	329.3	303.4	297.0	264.7	264.7
87.5°	45.2	45.2	64.6	71.0	58.1	64.6	64.6	64.6	64.6	64.6	71.0
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)