

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: P534046

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
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-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52405 lumens  
Efficiency: N/A  
Efficacy: 109.0 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

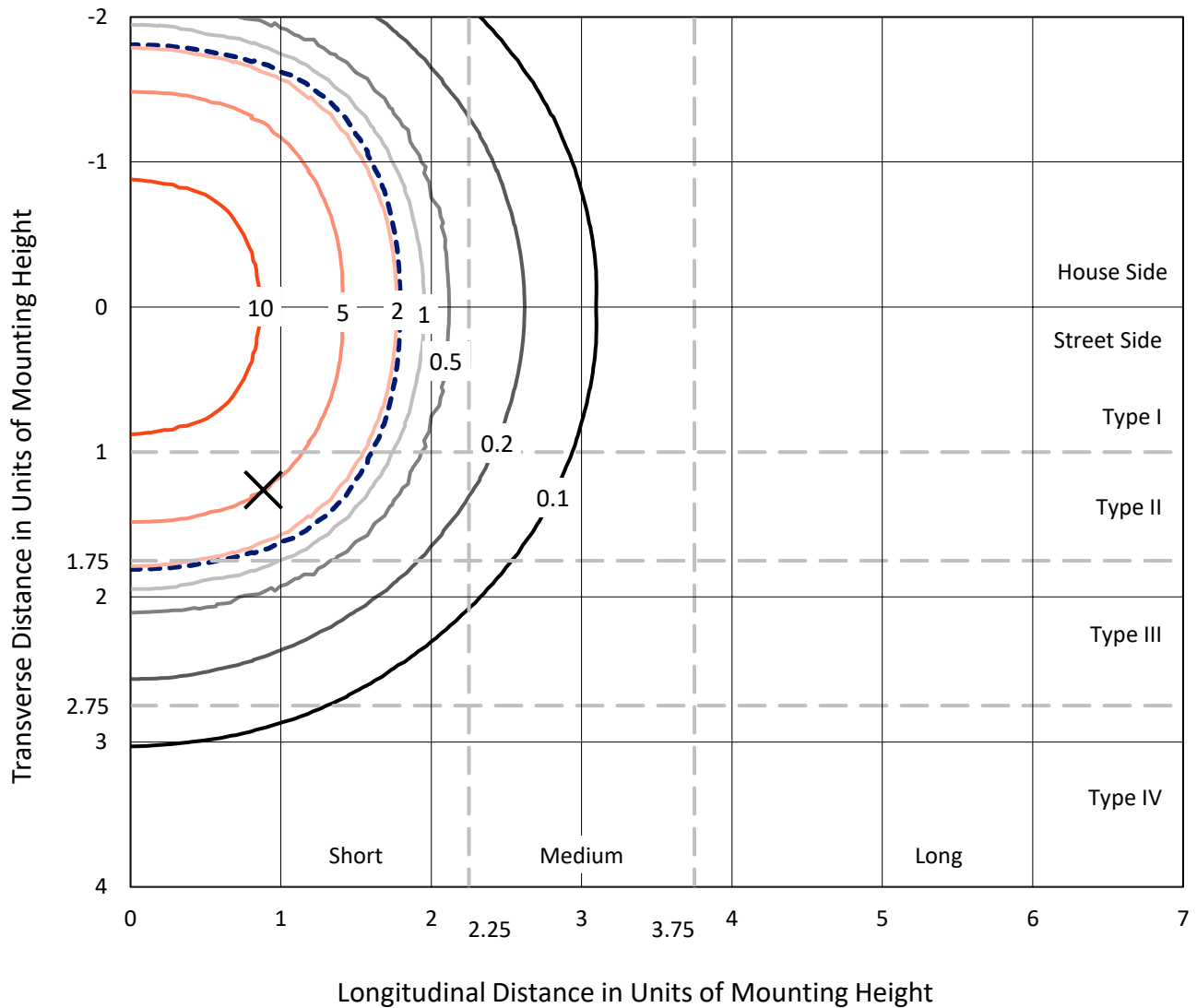
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

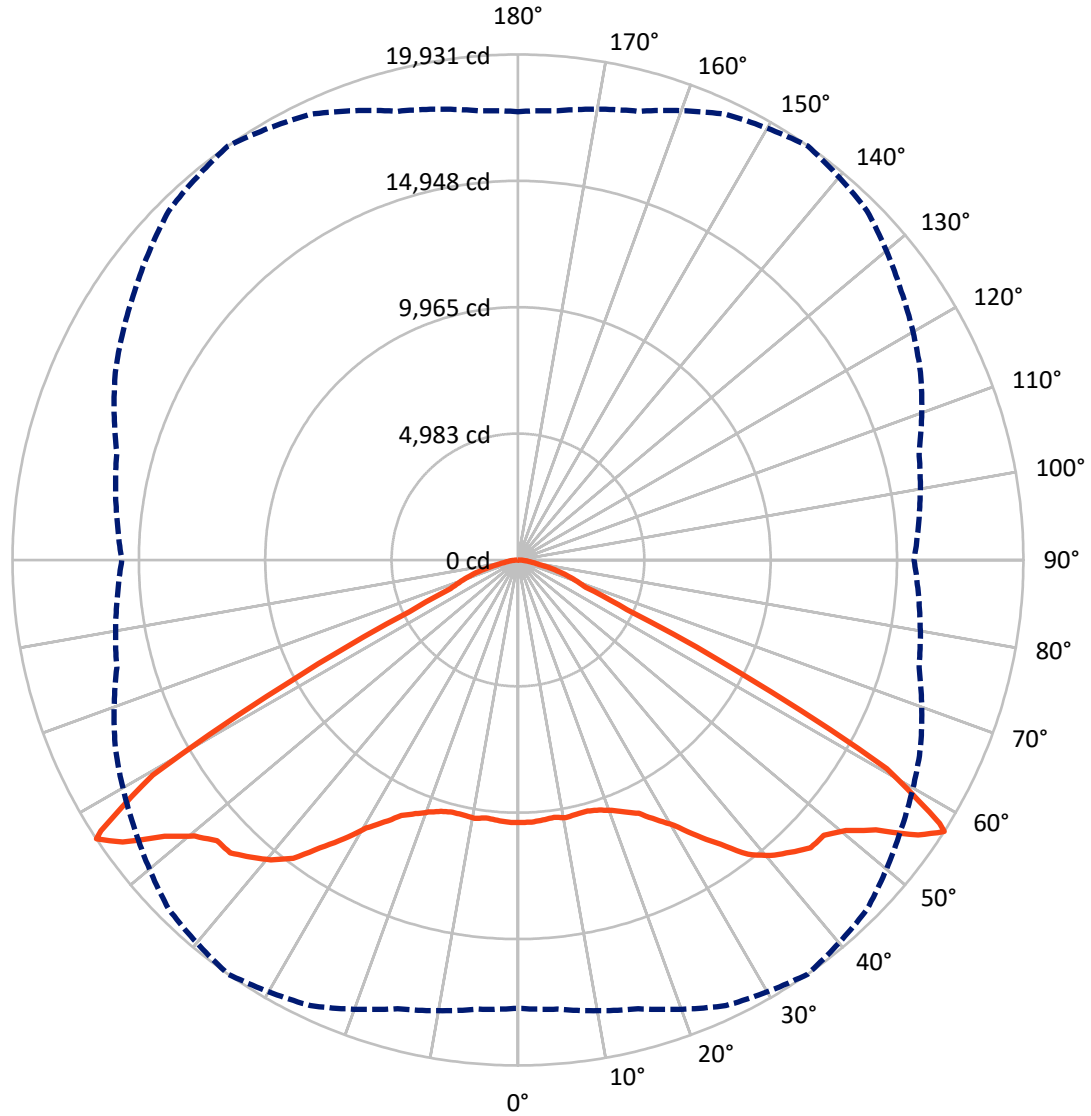
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26202.5	0.0	26202.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26202.5	0.0	26202.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	52405.0	0.0	52405.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	981.2	1.9
10°-20°	2906.0	5.5
20°-30°	5075.2	9.7
30°-40°	8315.9	15.9
40°-50°	12193.2	23.3
50°-60°	15358.2	29.3
60°-70°	5776.1	11.0
70°-80°	1535.8	2.9
80°-90°	263.3	0.5
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°	52405.0	100.0
0°-180°	52405.0	100.0

**Coefficient of Utilization**



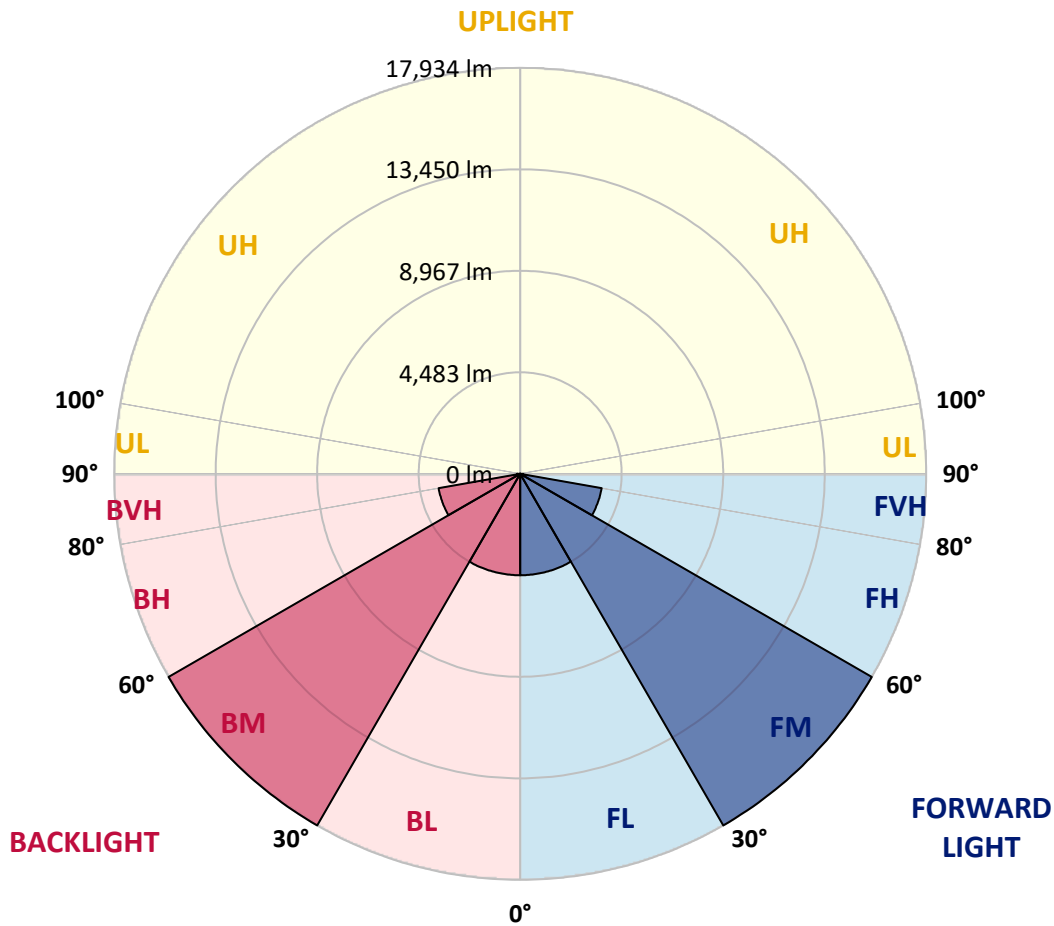
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4481.2	8.6			
FM (30°-60°)	17933.7	34.2			
FH (60°-80°)	3656.0	7.0			G2/5000
FVH (80°-90°)	131.7	0.3			G2/225
BL (0°-30°)	4481.2	8.6	B4/5000		
BM (30°-60°)	17933.7	34.2	B5		
BH (60°-80°)	3656.0	7.0	B4/5000		G2/5000
BVH (80°-90°)	131.7	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°	10349.6	10349.6	10349.6	10349.6	10349.6	10349.6	10349.6	10349.6	10349.6	10349.6	10349.6
2.5°	10298.0	10401.3	10356.1	10330.2	10349.6	10317.3	10265.7	10323.8	10310.9	10259.2	10239.8
5°	10272.1	10349.6	10298.0	10349.6	10298.0	10388.3	10362.5	10265.7	10381.9	10272.1	10310.9
7.5°	10252.8	10278.6	10291.5	10265.7	10246.3	10356.1	10298.0	10252.8	10188.2	10168.8	10201.1
10°	10207.6	10272.1	10175.3	10304.4	10330.2	10252.8	10252.8	10168.8	10117.2	10084.9	10194.6
12.5°	10323.8	10214.0	10201.1	10265.7	10285.0	10317.3	10226.9	10181.7	10084.9	10097.8	10078.4
15°	10188.2	10233.4	10239.8	10252.8	10272.1	10349.6	10265.7	10168.8	10130.1	9994.5	10007.4
17.5°	10239.8	10194.6	10239.8	10388.3	10362.5	10420.6	10330.2	10181.7	10091.3	10013.9	10117.2
20°	10330.2	10310.9	10330.2	10511.0	10543.3	10594.9	10517.5	10381.9	10207.6	10117.2	10168.8
22.5°	10427.1	10414.2	10427.1	10601.4	10788.6	10853.2	10775.7	10459.4	10369.0	10201.1	10143.0
25°	10601.4	10614.3	10749.9	10943.6	11066.3	11188.9	11046.9	10820.9	10530.4	10427.1	10304.4
27.5°	10988.8	11021.1	11098.5	11382.6	11595.7	11705.4	11505.3	11195.4	11014.6	10801.5	10769.3
30°	11466.6	11466.6	11602.1	11847.5	12138.0	12305.9	12060.5	11692.5	11473.0	11356.8	11285.8
32.5°	12099.3	12028.3	12079.9	12512.5	12964.4	13106.5	12777.2	12325.3	11976.6	11821.7	11770.0
35°	12641.6	12686.8	12803.0	13267.9	13771.5	14100.8	13584.3	12996.7	12641.6	12499.6	12473.8
37.5°	13345.4	13422.8	13481.0	14120.1	14727.0	14849.7	14352.6	13881.2	13448.7	13332.5	13267.9
40°	14339.7	14288.0	14307.4	14778.7	15327.5	15405.0	14914.3	14578.5	14223.4	14152.4	14152.4
42.5°	15159.6	15101.5	15166.1	15340.4	15760.1	15702.0	15430.8	15185.4	15036.9	14959.5	15036.9
45°	15656.8	15643.8	15760.1	15889.2	16186.2	15992.5	15779.4	15818.2	15676.1	15547.0	15540.5
47.5°	16199.1	16115.2	16257.2	16450.9	16224.9	16134.5	16121.6	16205.6	16160.4	15934.4	15863.4
50°	16463.8	16431.5	16657.5	16883.5	16760.8	16554.2	16599.4	16735.0	16153.9	15850.5	15676.1
52.5°	17174.0	17180.5	17613.0	17735.7	17684.1	17380.6	17477.5	17109.4	16425.1	15998.9	16018.3
55°	18291.0	18245.8	18730.0	19091.6	19149.7	18762.3	18297.4	17780.9	16922.2	16489.6	16360.5
57°	17677.6	17780.9	18316.8	19388.6	19930.9	19472.5	18458.8	17516.2	16373.4	15850.5	15618.0
57.5°	16857.6	17025.5	17955.2	19033.5	19601.6	19562.9	18258.7	17025.5	16005.4	15191.9	15211.3
60°	12351.1	12383.4	13222.7	14933.6	16709.2	16747.9	15159.6	13526.1	12389.8	11505.3	11628.0
62.5°	6514.5	6663.0	6998.7	8373.9	9910.6	10285.0	9323.0	8483.7	7502.3	6830.9	6895.4
65°	3447.7	3428.3	3589.8	3977.1	4732.5	4926.2	4797.1	4132.1	3789.9	3680.1	3686.6
67.5°	2802.1	2834.4	2815.0	2834.4	2886.0	2969.9	2950.6	2976.4	2995.8	3028.0	3021.6
70°	2376.0	2376.0	2388.9	2395.3	2395.3	2434.1	2479.3	2563.2	2569.6	2601.9	2614.8
72.5°	1872.4	1859.4	1878.8	1924.0	1930.5	1962.7	2027.3	2079.0	2098.3	2098.3	2059.6
75°	1271.9	1284.8	1310.6	1349.4	1388.1	1446.2	1497.9	1530.2	1543.1	1523.7	1504.3
77.5°	716.7	729.6	748.9	807.0	852.2	903.9	962.0	994.3	1026.6	1033.0	994.3
80°	426.1	426.1	458.4	503.6	555.2	606.9	658.6	697.3	710.2	710.2	690.8
82.5°	258.3	264.7	290.5	335.7	380.9	413.2	458.4	490.7	516.5	510.1	497.1
85°	135.6	135.6	161.4	200.1	232.4	264.7	264.7	245.3	232.4	200.1	187.2
87.5°	45.2	38.7	51.7	51.7	45.2	51.7	51.7	58.1	58.1	58.1	58.1
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)