

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: P457208

Luminaire Tested: **GALN-SA8C-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457208
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59542 lumens
Efficiency: N/A
Efficacy: 138.8 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

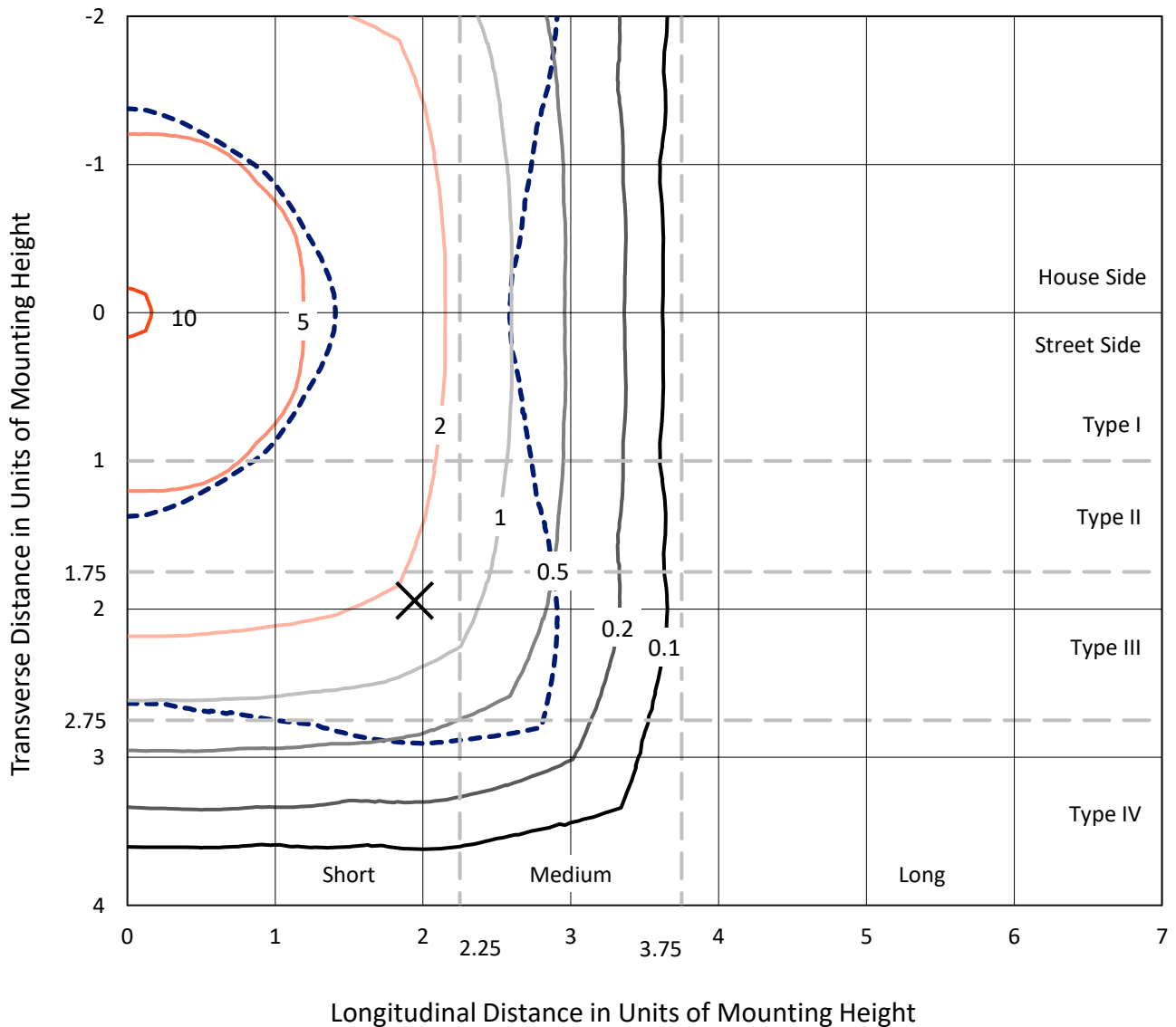
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

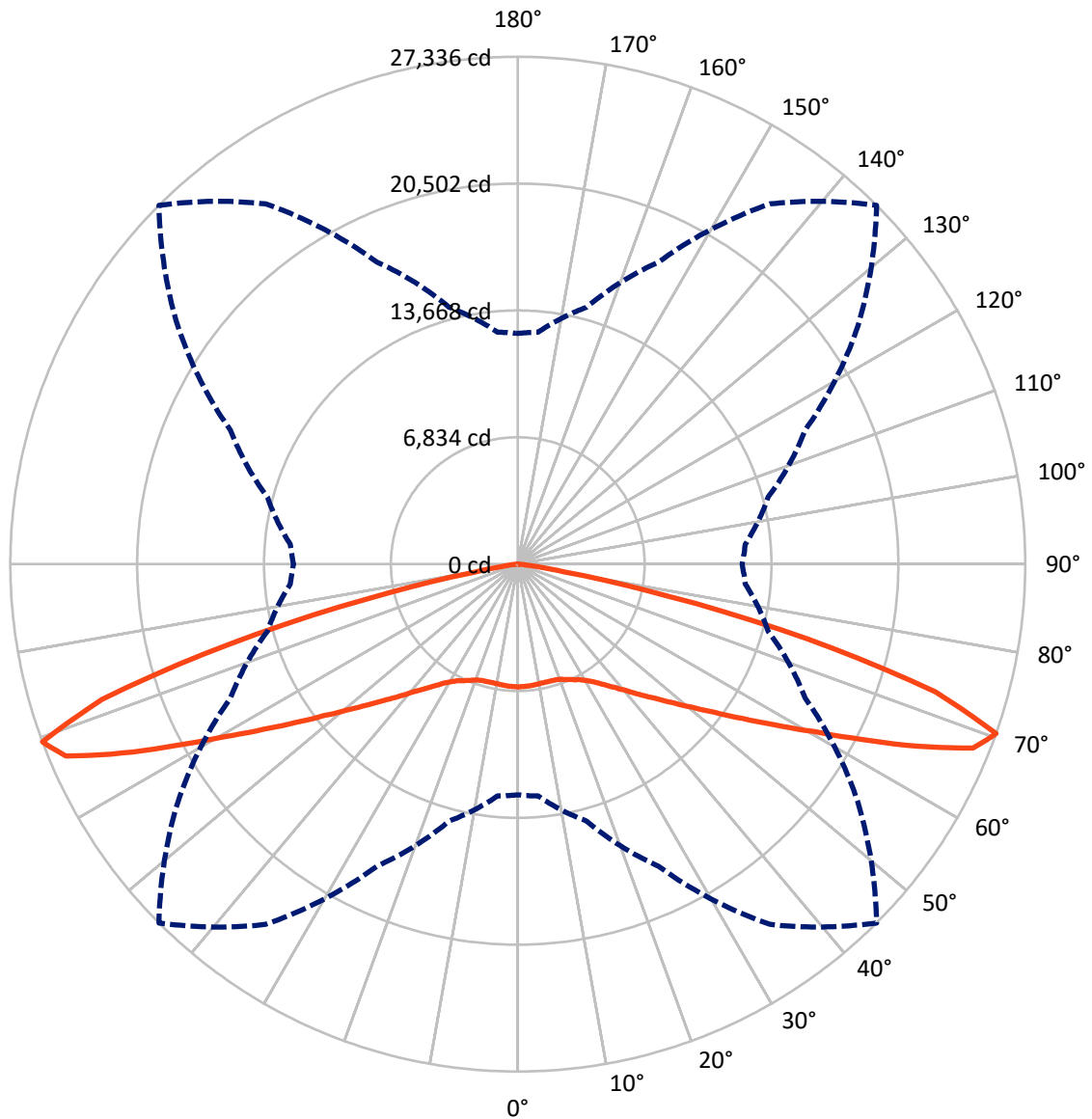
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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
House Side	Lumens	29771.0	0.0	29771.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29771.0	0.0	29771.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	59542.0	0.0	59542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.0	1.1
10°-20°	1839.9	3.1
20°-30°	3146.7	5.3
30°-40°	4994.5	8.4
40°-50°	8057.5	13.5
50°-60°	13109.8	22.0
60°-70°	19004.4	31.9
70°-80°	8429.7	14.2
80°-90°	332.5	0.6
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°	59542.0	100.0
0°-180°	59542.0	100.0

Coefficient of Utilization



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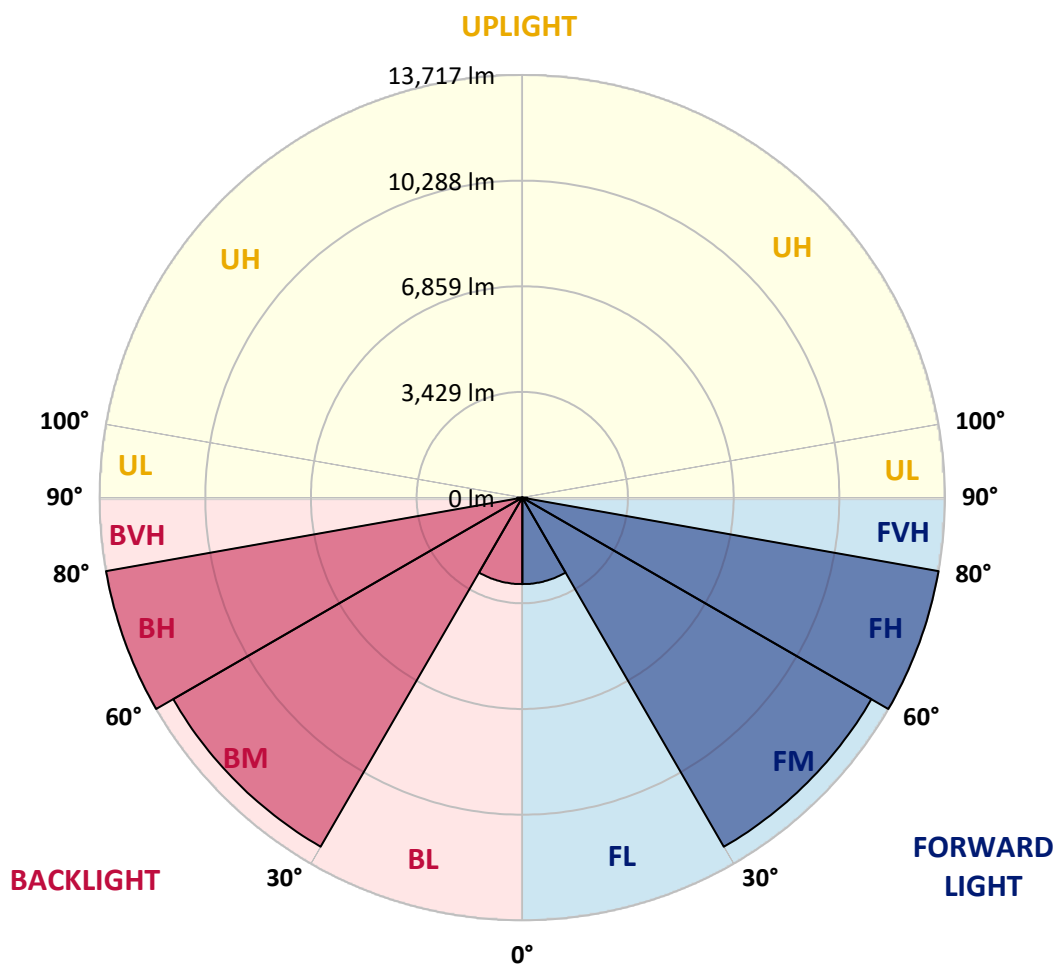
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2806.8	4.7			
FM (30°-60°)	13080.9	22.0			
FH (60°-80°)	13717.1	23.0			G5
FVH (80°-90°)	166.2	0.3			G2/225
BL (0°-30°)	2806.8	4.7	B4/5000		
BM (30°-60°)	13080.9	22.0	B5		
BH (60°-80°)	13717.1	23.0	B5		G5
BVH (80°-90°)	166.2	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6611.9	6611.9	6611.9	6611.9	6611.9	6611.9	6611.9	6611.9	6611.9	6611.9	6611.9
2.5°	6611.9	6618.1	6608.7	6602.4	6599.3	6599.3	6596.2	6599.3	6618.1	6621.3	6611.9
5°	6593.0	6599.3	6596.2	6589.9	6586.8	6586.8	6583.6	6580.5	6596.2	6602.4	6599.3
7.5°	6567.9	6571.1	6567.9	6564.8	6567.9	6564.8	6555.4	6549.1	6561.6	6561.6	6558.5
10°	6524.0	6530.3	6527.1	6530.3	6536.5	6536.5	6524.0	6511.4	6514.6	6508.3	6508.3
12.5°	6470.6	6480.1	6483.2	6495.8	6511.4	6530.3	6502.0	6473.8	6467.5	6464.4	6461.2
15°	6436.1	6445.5	6458.1	6470.6	6498.9	6539.7	6498.9	6455.0	6442.4	6429.9	6423.6
17.5°	6426.7	6439.3	6458.1	6476.9	6514.6	6555.4	6520.9	6476.9	6445.5	6426.7	6420.4
20°	6451.8	6461.2	6489.5	6524.0	6577.3	6618.1	6583.6	6536.5	6489.5	6461.2	6451.8
22.5°	6502.0	6517.7	6552.2	6615.0	6690.3	6749.9	6702.9	6624.4	6549.1	6511.4	6498.9
25°	6611.9	6624.4	6665.2	6749.9	6837.8	6894.3	6844.1	6753.1	6649.5	6599.3	6583.6
27.5°	6778.2	6797.0	6840.9	6941.4	7013.5	7044.9	7010.4	6947.6	6872.3	6819.0	6806.4
30°	7013.5	7035.5	7101.4	7208.1	7255.2	7274.0	7258.3	7217.5	7164.2	7107.7	7095.1
32.5°	7330.5	7343.0	7418.3	7518.8	7562.7	7569.0	7550.1	7531.3	7443.4	7349.3	7343.0
35°	7685.1	7707.0	7798.0	7917.3	7958.1	7961.2	7923.6	7895.3	7791.8	7716.4	7716.4
37.5°	8155.8	8165.2	8253.1	8388.0	8431.9	8419.4	8400.5	8375.4	8265.6	8168.3	8171.5
40°	8708.1	8726.9	8802.2	8959.1	8959.1	8943.4	8956.0	8937.1	8827.3	8733.2	8736.3
42.5°	9363.9	9373.3	9464.3	9630.7	9618.1	9586.7	9599.3	9574.2	9505.1	9398.4	9360.8
45°	10063.7	10101.4	10258.3	10418.3	10393.2	10292.8	10343.0	10336.7	10274.0	10113.9	10123.3
47.5°	10907.8	10970.6	11121.2	11312.6	11284.4	11127.5	11184.0	11221.6	11133.8	10958.0	10926.7
50°	11858.7	11899.5	12122.3	12301.1	12276.0	12109.7	12238.4	12244.6	12025.0	11777.1	11777.1
52.5°	12872.3	12913.1	13214.3	13493.6	13509.3	13267.6	13371.2	13364.9	13007.2	12680.8	12618.1
55°	14008.2	14027.1	14416.2	14827.3	14915.1	14679.8	14692.3	14566.8	14102.4	13722.7	13688.1
57.5°	15181.9	15250.9	15680.8	16214.3	16474.7	16330.4	16264.5	15928.7	15480.0	15043.8	15021.8
60°	16481.0	16484.1	17042.7	17673.5	18200.7	18297.9	18028.1	17579.3	16998.8	16421.4	16396.3
62.5°	17381.6	17516.6	18222.6	19289.6	20234.1	20780.1	20067.8	19126.4	17984.1	17052.1	16958.0
65°	17566.8	17657.8	18734.1	20541.6	22471.5	23648.3	22000.8	19998.8	18050.0	16807.4	16744.6
67.5°	16069.9	16167.2	17617.0	20391.0	24040.6	26453.7	23256.0	19578.3	16932.9	15395.2	15272.9
70°	12429.8	12539.6	14331.4	17949.6	23692.2	27335.5	22361.7	17077.2	13964.3	12304.3	12081.5
72.5°	6608.7	7013.5	8544.9	12320.0	19229.9	23535.3	18335.6	12461.2	9006.2	7361.9	7066.9
75°	2413.2	2463.4	3316.9	5463.3	11187.1	16139.0	11617.0	5943.5	3417.3	2639.1	2504.2
77.5°	997.9	994.8	1092.0	1650.6	4063.8	8265.6	4534.5	1744.8	1088.9	1007.3	994.8
80°	590.0	590.0	649.6	687.2	1070.1	2494.7	1195.6	778.2	652.7	596.2	605.6
82.5°	263.6	279.3	411.1	433.1	517.8	684.1	577.4	495.8	426.8	295.0	266.7
85°	144.4	125.5	216.5	225.9	247.9	254.2	273.0	269.9	247.9	144.4	147.5
87.5°	28.2	34.5	62.8	47.1	53.3	47.1	62.8	87.9	91.0	50.2	40.8
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)