

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: P458136

Luminaire Tested: **GALN-SA9C-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458136
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-SA9C-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 66846 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

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

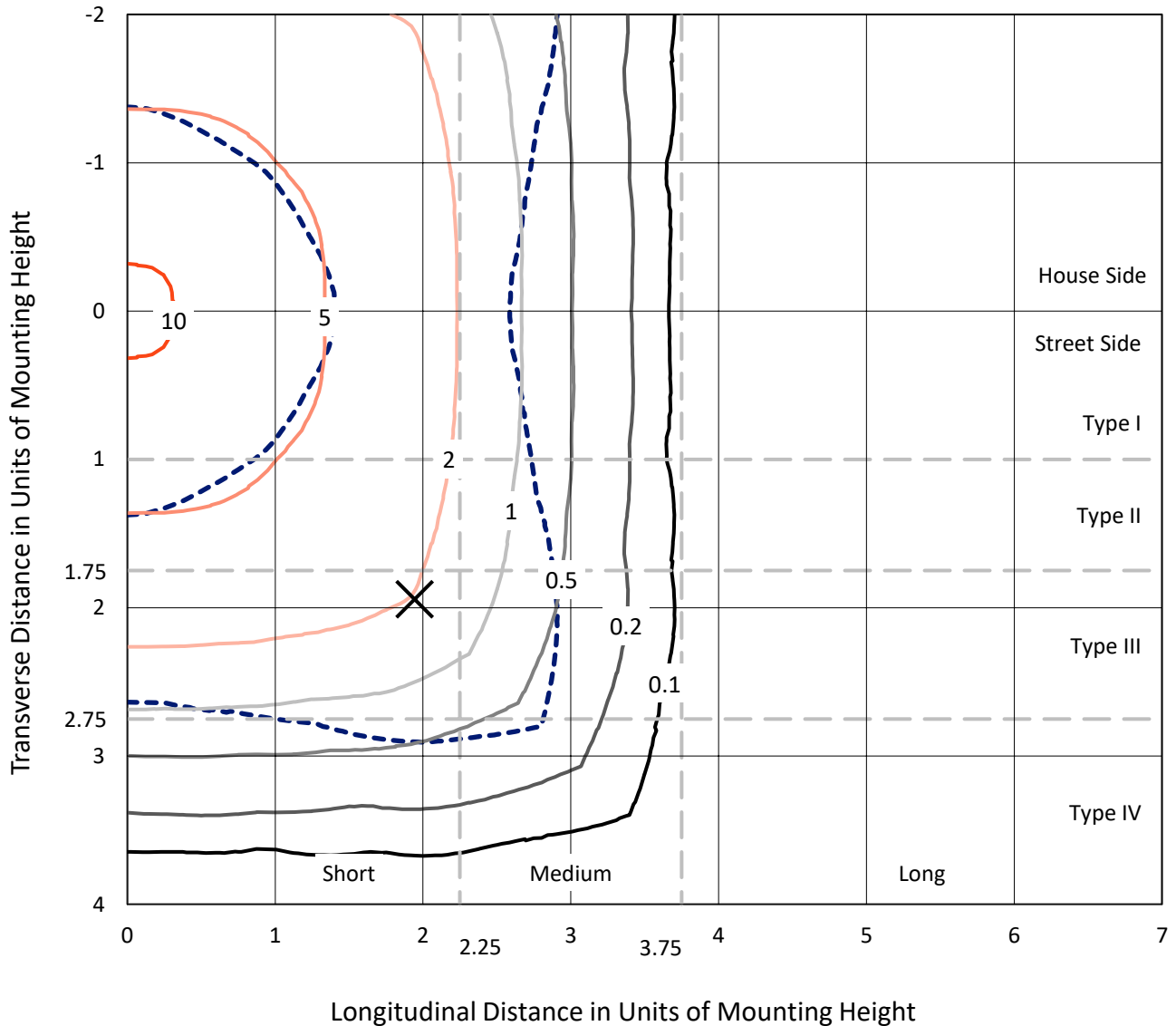




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Iso-Footcandle Lines of Horizontal Illumination

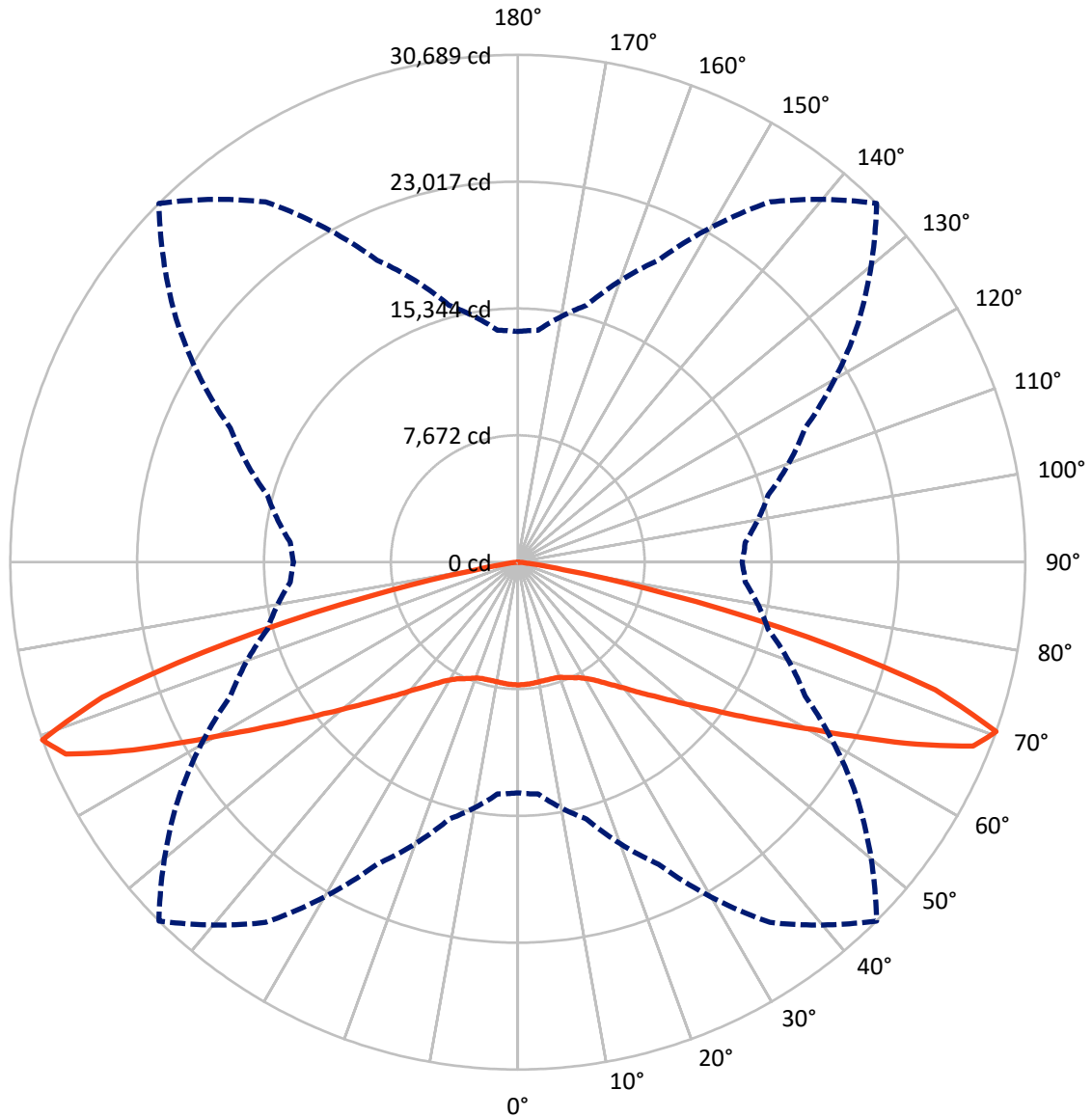
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	33423.0	0.0	33423.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33423.0	0.0	33423.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	66846.0	0.0	66846.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.9	1.1
10°-20°	2065.6	3.1
20°-30°	3532.7	5.3
30°-40°	5607.2	8.4
40°-50°	9045.9	13.5
50°-60°	14717.9	22.0
60°-70°	21335.7	31.9
70°-80°	9463.8	14.2
80°-90°	373.3	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°	66846.0	100.0
0°-180°	66846.0	100.0



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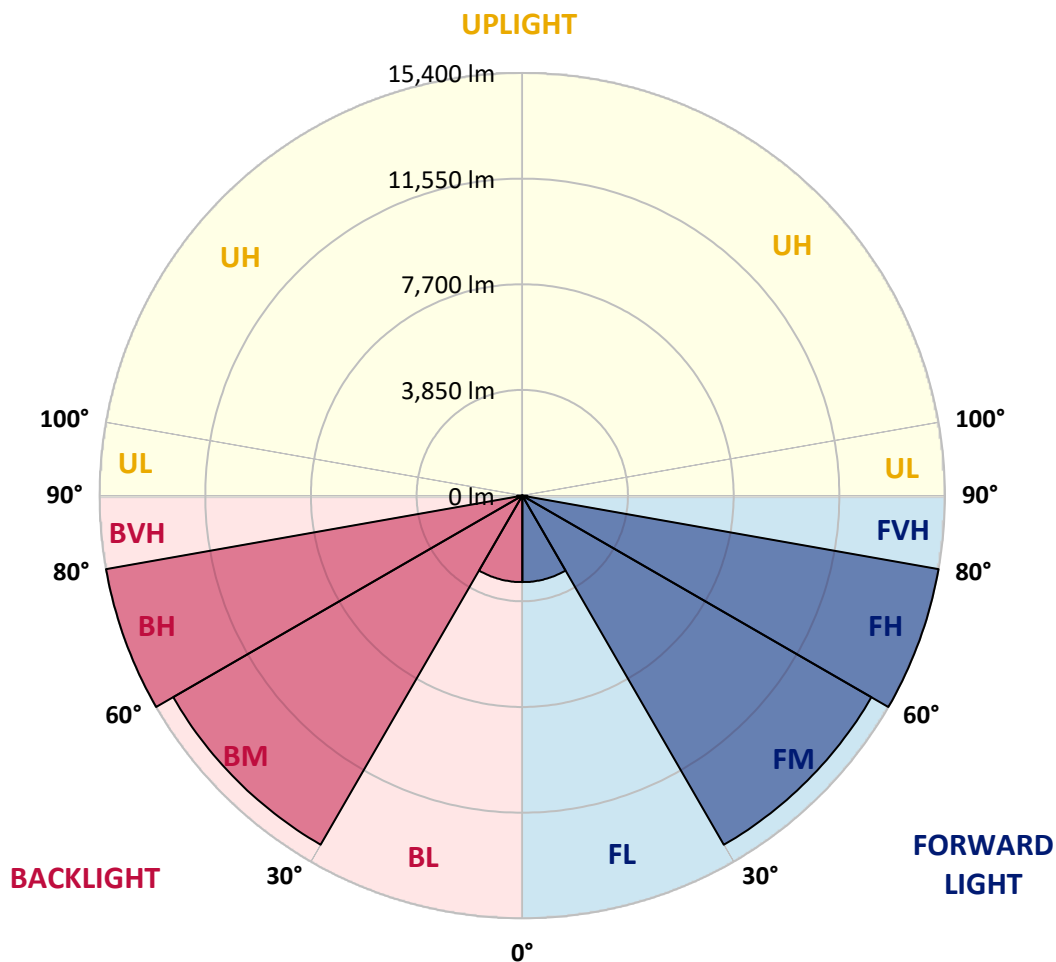
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3151.1	4.7			
FM	(30°-60°)	14685.5	22.0			
FH	(60°-80°)	15399.7	23.0			G5
FVH	(80°-90°)	186.6	0.3			G2/225
BL	(0°-30°)	3151.1	4.7	B4/5000		
BM	(30°-60°)	14685.5	22.0	B5		
BH	(60°-80°)	15399.7	23.0	B5		G5
BVH	(80°-90°)	186.6	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7422.9	7422.9	7422.9	7422.9	7422.9	7422.9	7422.9	7422.9	7422.9	7422.9	7422.9
2.5°	7422.9	7430.0	7419.4	7412.4	7408.8	7408.8	7405.3	7408.8	7430.0	7433.5	7422.9
5°	7401.8	7408.8	7405.3	7398.3	7394.7	7394.7	7391.2	7387.7	7405.3	7412.4	7408.8
7.5°	7373.6	7377.1	7373.6	7370.1	7373.6	7370.1	7359.5	7352.5	7366.6	7366.6	7363.0
10°	7324.3	7331.3	7327.8	7331.3	7338.4	7338.4	7324.3	7310.2	7313.7	7306.7	7306.7
12.5°	7264.4	7275.0	7278.5	7292.6	7310.2	7331.3	7299.6	7267.9	7260.9	7257.4	7253.8
15°	7225.6	7236.2	7250.3	7264.4	7296.1	7341.9	7296.1	7246.8	7232.7	7218.6	7211.6
17.5°	7215.1	7229.2	7250.3	7271.4	7313.7	7359.5	7320.8	7271.4	7236.2	7215.1	7208.0
20°	7243.3	7253.8	7285.5	7324.3	7384.2	7430.0	7391.2	7338.4	7285.5	7253.8	7243.3
22.5°	7299.6	7317.2	7356.0	7426.5	7511.0	7577.9	7525.1	7437.0	7352.5	7310.2	7296.1
25°	7422.9	7437.0	7482.8	7577.9	7676.6	7740.0	7683.6	7581.5	7465.2	7408.8	7391.2
27.5°	7609.7	7630.8	7680.1	7792.8	7873.9	7909.1	7870.4	7799.9	7715.3	7655.5	7641.4
30°	7873.9	7898.5	7972.5	8092.3	8145.1	8166.3	8148.7	8102.9	8043.0	7979.6	7965.5
32.5°	8229.7	8243.8	8328.3	8441.1	8490.4	8497.4	8476.3	8455.2	8356.5	8250.8	8243.8
35°	8627.8	8652.5	8754.6	8888.5	8934.3	8937.8	8895.5	8863.8	8747.6	8663.0	8663.0
37.5°	9156.2	9166.8	9265.5	9416.9	9466.3	9452.2	9431.0	9402.9	9279.5	9170.3	9173.9
40°	9776.3	9797.4	9882.0	10058.1	10058.1	10040.5	10054.6	10033.5	9910.2	9804.5	9808.0
42.5°	10512.6	10523.2	10625.3	10812.0	10798.0	10762.7	10776.8	10748.6	10671.1	10551.3	10509.1
45°	11298.2	11340.5	11516.6	11696.3	11668.1	11555.4	11611.8	11604.7	11534.3	11354.6	11365.2
47.5°	12245.9	12316.4	12485.5	12700.4	12668.7	12492.5	12555.9	12598.2	12499.6	12302.3	12267.0
50°	13313.4	13359.2	13609.3	13810.1	13781.9	13595.2	13739.6	13746.7	13500.1	13221.8	13221.8
52.5°	14451.3	14497.1	14835.3	15148.8	15166.5	14895.2	15011.4	15004.4	14602.8	14236.4	14165.9
55°	15726.6	15747.8	16184.6	16646.1	16744.8	16480.5	16494.6	16353.7	15832.3	15406.0	15367.3
57.5°	17044.2	17121.7	17604.4	18203.3	18495.7	18333.6	18259.6	17882.7	17378.9	16889.2	16864.5
60°	18502.7	18506.2	19133.3	19841.5	20433.3	20542.5	20239.6	19735.8	19084.0	18435.8	18407.6
62.5°	19513.8	19665.3	20458.0	21655.8	22716.2	23329.2	22529.5	21472.6	20190.2	19143.9	19038.2
65°	19721.7	19823.8	21032.2	23061.5	25228.1	26549.2	24699.7	22452.0	20264.2	18869.1	18798.7
67.5°	18041.2	18150.4	19778.0	22892.4	26989.6	29698.8	26108.9	21979.9	19010.0	17283.8	17146.4
70°	13954.6	14077.9	16089.5	20151.5	26598.6	30688.7	25104.8	19172.1	15677.3	13813.6	13563.5
72.5°	7419.4	7873.9	9593.1	13831.2	21588.9	26422.4	20584.8	13989.8	10111.0	8264.9	7933.8
75°	2709.2	2765.5	3723.8	6133.5	12559.4	18118.7	13042.1	6672.5	3836.5	2962.8	2811.3
77.5°	1120.3	1116.8	1226.0	1853.1	4562.3	9279.5	5090.7	1958.8	1222.5	1130.9	1116.8
80°	662.3	662.3	729.3	771.5	1201.3	2800.8	1342.3	873.7	732.8	669.4	679.9
82.5°	295.9	313.5	461.5	486.2	581.3	768.0	648.2	556.6	479.1	331.2	299.5
85°	162.1	140.9	243.1	253.7	278.3	285.4	306.5	303.0	278.3	162.1	165.6
87.5°	31.7	38.8	70.5	52.8	59.9	52.8	70.5	98.6	102.2	56.4	45.8
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)