

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: P457904

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457904
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-SA9B-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54103 lumens
Efficiency: N/A
Efficacy: 148.6 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

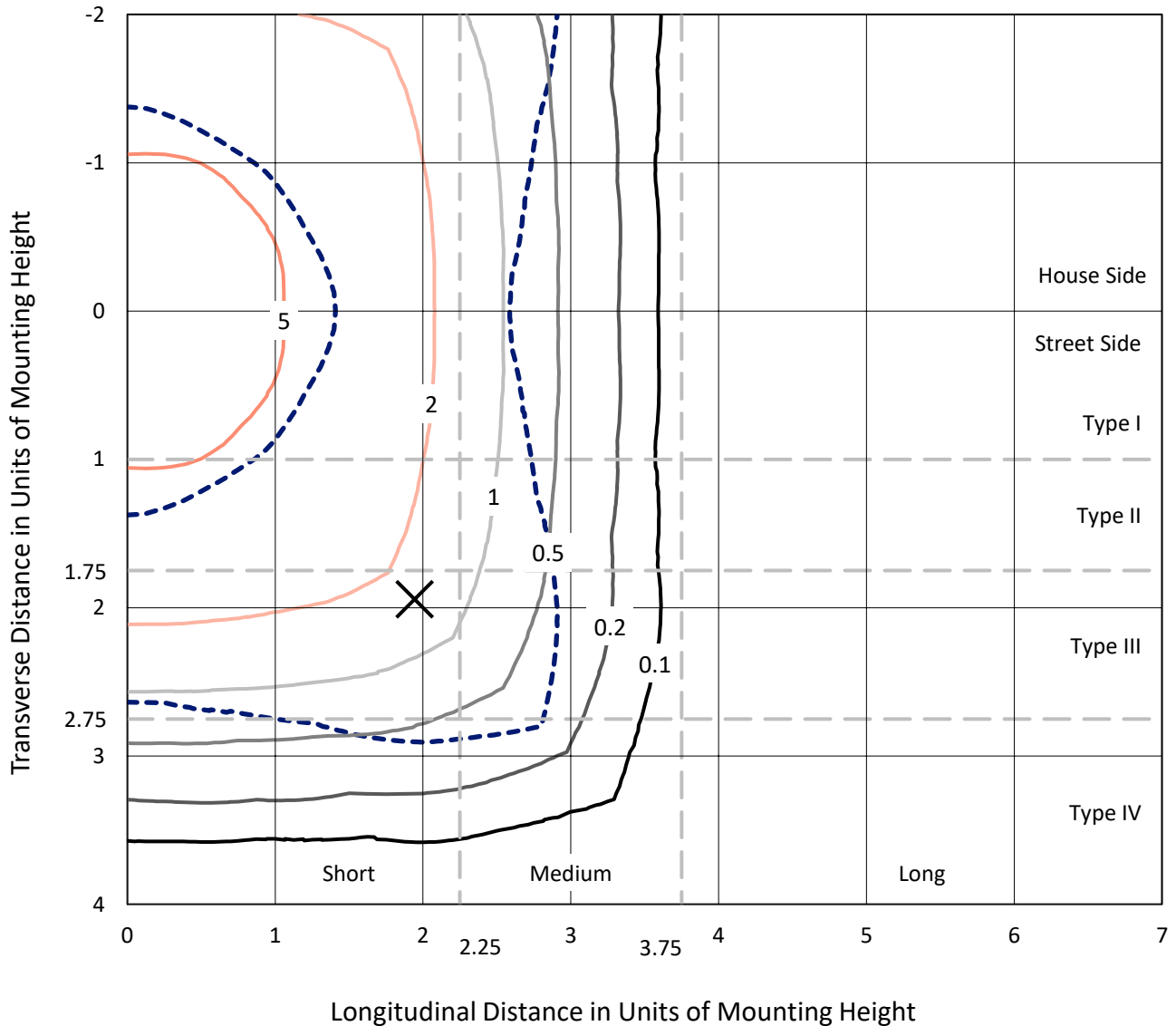
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

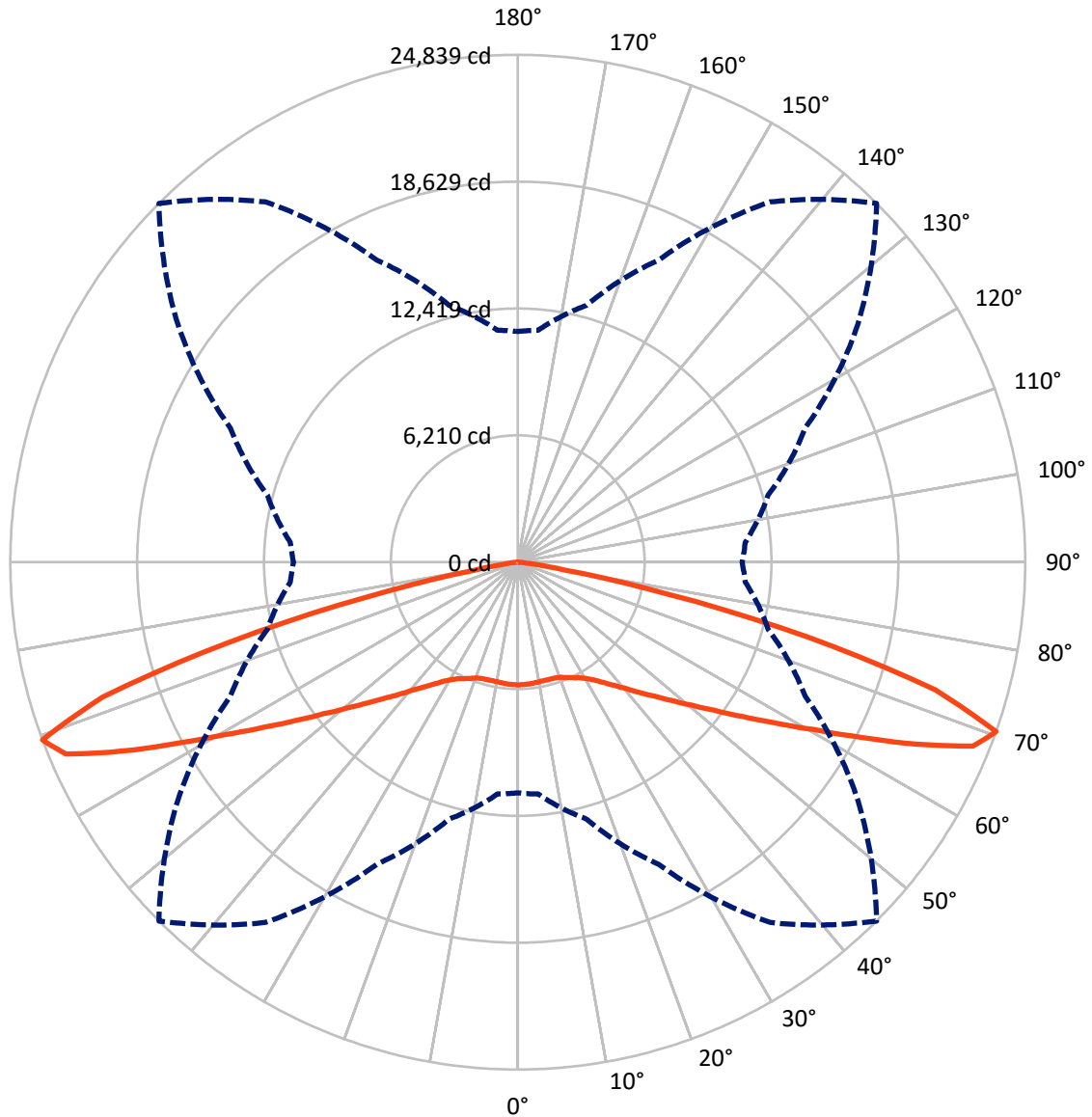
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	27051.5	0.0	27051.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27051.5	0.0	27051.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	54103.0	0.0	54103.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.7	1.1
10°-20°	1671.8	3.1
20°-30°	2859.3	5.3
30°-40°	4538.3	8.4
40°-50°	7321.5	13.5
50°-60°	11912.2	22.0
60°-70°	17268.4	31.9
70°-80°	7659.7	14.2
80°-90°	302.1	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°	54103.0	100.0
0°-180°	54103.0	100.0



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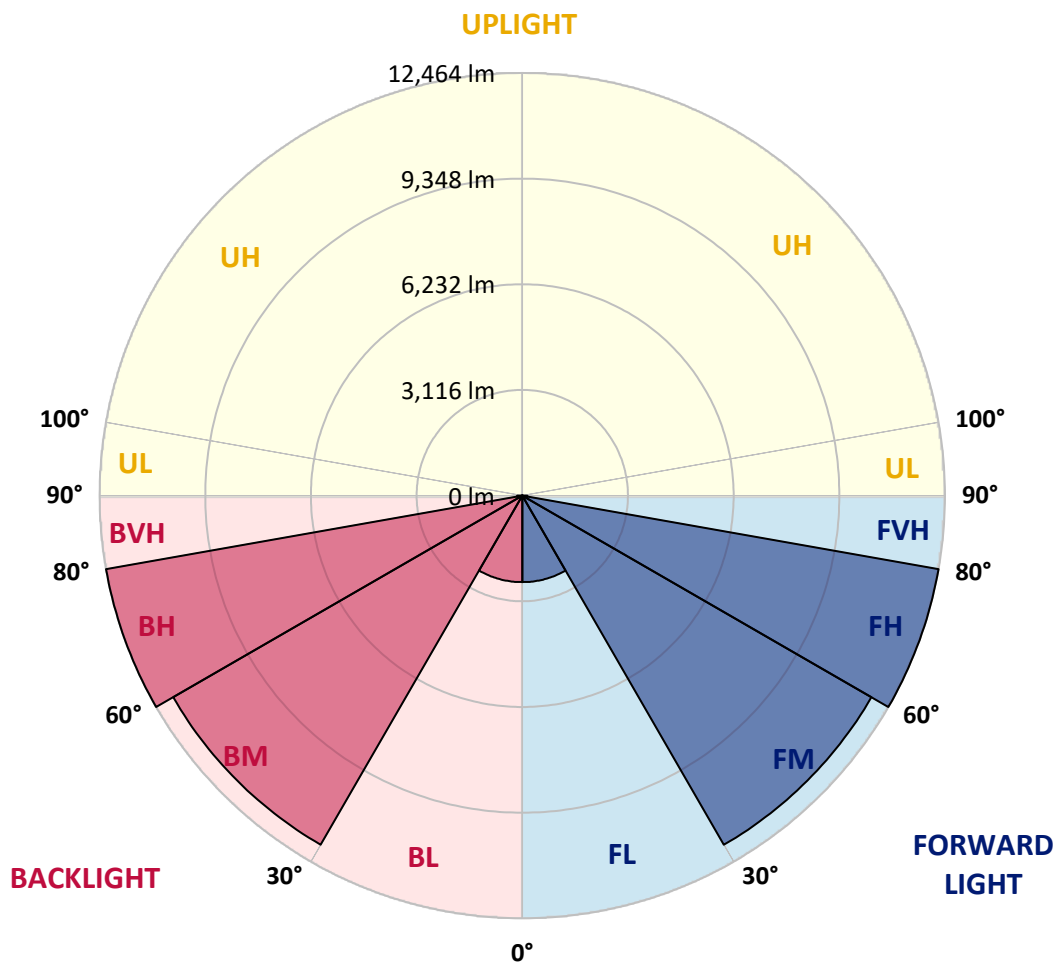
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2550.4	4.7			
FM (30°-60°)	11886.0	22.0			
FH (60°-80°)	12464.0	23.0			G5
FVH (80°-90°)	151.1	0.3			G2/225
BL (0°-30°)	2550.4	4.7	B4/5000		
BM (30°-60°)	11886.0	22.0	B5		
BH (60°-80°)	12464.0	23.0	B5		G5
BVH (80°-90°)	151.1	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°	6007.9	6007.9	6007.9	6007.9	6007.9	6007.9	6007.9	6007.9	6007.9	6007.9	6007.9
2.5°	6007.9	6013.6	6005.0	5999.3	5996.5	5996.5	5993.6	5996.5	6013.6	6016.4	6007.9
5°	5990.8	5996.5	5993.6	5987.9	5985.1	5985.1	5982.2	5979.4	5993.6	5999.3	5996.5
7.5°	5968.0	5970.8	5968.0	5965.1	5968.0	5965.1	5956.6	5950.9	5962.3	5962.3	5959.4
10°	5928.0	5933.7	5930.9	5933.7	5939.4	5939.4	5928.0	5916.6	5919.5	5913.8	5913.8
12.5°	5879.6	5888.1	5891.0	5902.4	5916.6	5933.7	5908.1	5882.4	5876.7	5873.9	5871.0
15°	5848.2	5856.8	5868.2	5879.6	5905.2	5942.3	5905.2	5865.3	5853.9	5842.5	5836.8
17.5°	5839.7	5851.1	5868.2	5885.3	5919.5	5956.6	5925.2	5885.3	5856.8	5839.7	5833.9
20°	5862.5	5871.0	5896.7	5928.0	5976.5	6013.6	5982.2	5939.4	5896.7	5871.0	5862.5
22.5°	5908.1	5922.3	5953.7	6010.7	6079.2	6133.3	6090.6	6019.3	5950.9	5916.6	5905.2
25°	6007.9	6019.3	6056.4	6133.3	6213.2	6264.5	6218.9	6136.2	6042.1	5996.5	5982.2
27.5°	6159.0	6176.1	6216.0	6307.3	6372.9	6401.4	6370.0	6313.0	6244.5	6196.1	6184.7
30°	6372.9	6392.8	6452.7	6549.6	6592.4	6609.5	6595.3	6558.2	6509.7	6458.4	6447.0
32.5°	6660.9	6672.3	6740.7	6831.9	6871.9	6877.6	6860.4	6843.3	6763.5	6678.0	6672.3
35°	6983.1	7003.0	7085.7	7194.1	7231.1	7234.0	7199.8	7174.1	7080.0	7011.6	7011.6
37.5°	7410.8	7419.3	7499.2	7621.8	7661.7	7650.3	7633.2	7610.4	7510.6	7422.2	7425.0
40°	7912.6	7929.7	7998.2	8140.7	8140.7	8126.5	8137.9	8120.8	8021.0	7935.4	7938.3
42.5°	8508.6	8517.1	8599.8	8750.9	8739.5	8711.0	8722.4	8699.6	8636.9	8539.9	8505.7
45°	9144.4	9178.6	9321.2	9466.6	9443.8	9352.6	9398.2	9392.5	9335.5	9190.0	9198.6
47.5°	9911.4	9968.5	10105.3	10279.3	10253.6	10111.0	10162.4	10196.6	10116.7	9957.1	9928.5
50°	10775.4	10812.5	11014.9	11177.5	11154.6	11003.5	11120.4	11126.1	10926.5	10701.3	10701.3
52.5°	11696.4	11733.5	12007.2	12261.0	12275.2	12055.7	12149.8	12144.1	11819.0	11522.5	11465.4
55°	12728.6	12745.7	13099.3	13472.8	13552.7	13338.8	13350.2	13236.2	12814.2	12469.1	12437.8
57.5°	13795.0	13857.8	14248.4	14733.1	14969.8	14838.6	14778.8	14473.7	14065.9	13669.6	13649.6
60°	14975.5	14978.4	15485.9	16059.0	16538.1	16626.5	16381.2	15973.5	15446.0	14921.3	14898.5
62.5°	15793.9	15916.5	16558.0	17527.5	18385.8	18881.9	18234.7	17379.2	16341.3	15494.5	15408.9
65°	15962.1	16044.8	17022.8	18665.2	20418.8	21488.1	19991.1	18171.9	16401.2	15272.1	15215.0
67.5°	14602.0	14690.4	16007.7	18528.3	21844.5	24037.2	21131.7	17789.8	15386.1	13988.9	13877.7
70°	11294.4	11394.2	13022.3	16310.0	21528.0	24838.5	20319.0	15517.3	12688.7	11180.3	10977.9
72.5°	6005.0	6372.9	7764.3	11194.6	17473.3	21385.4	16660.7	11322.9	8183.5	6689.4	6421.3
75°	2192.7	2238.3	3013.9	4964.3	10165.2	14664.7	10555.9	5400.5	3105.2	2398.0	2275.4
77.5°	906.7	903.9	992.3	1499.8	3692.6	7510.6	4120.3	1585.4	989.4	915.3	903.9
80°	536.1	536.1	590.2	624.5	972.3	2266.9	1086.4	707.1	593.1	541.8	550.3
82.5°	239.5	253.8	373.5	393.5	470.5	621.6	524.7	450.5	387.8	268.0	242.4
85°	131.2	114.1	196.7	205.3	225.3	231.0	248.1	245.2	225.3	131.2	134.0
87.5°	25.7	31.4	57.0	42.8	48.5	42.8	57.0	79.8	82.7	45.6	37.1
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)