

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: P458252

Luminaire Tested: **GALN-SA9C-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458252
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-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 53119 lumens
Efficiency: N/A
Efficacy: 110.4 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

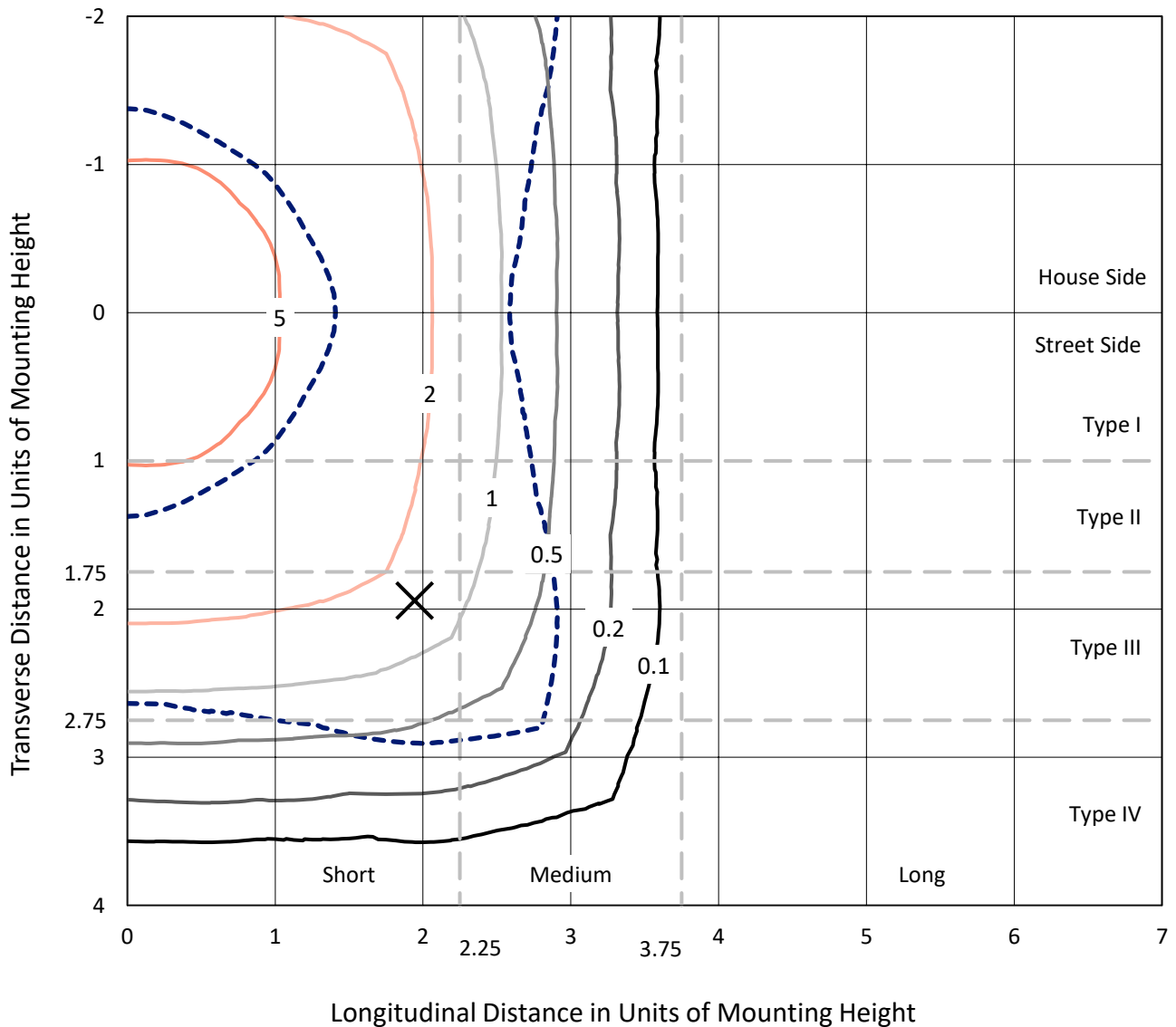
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

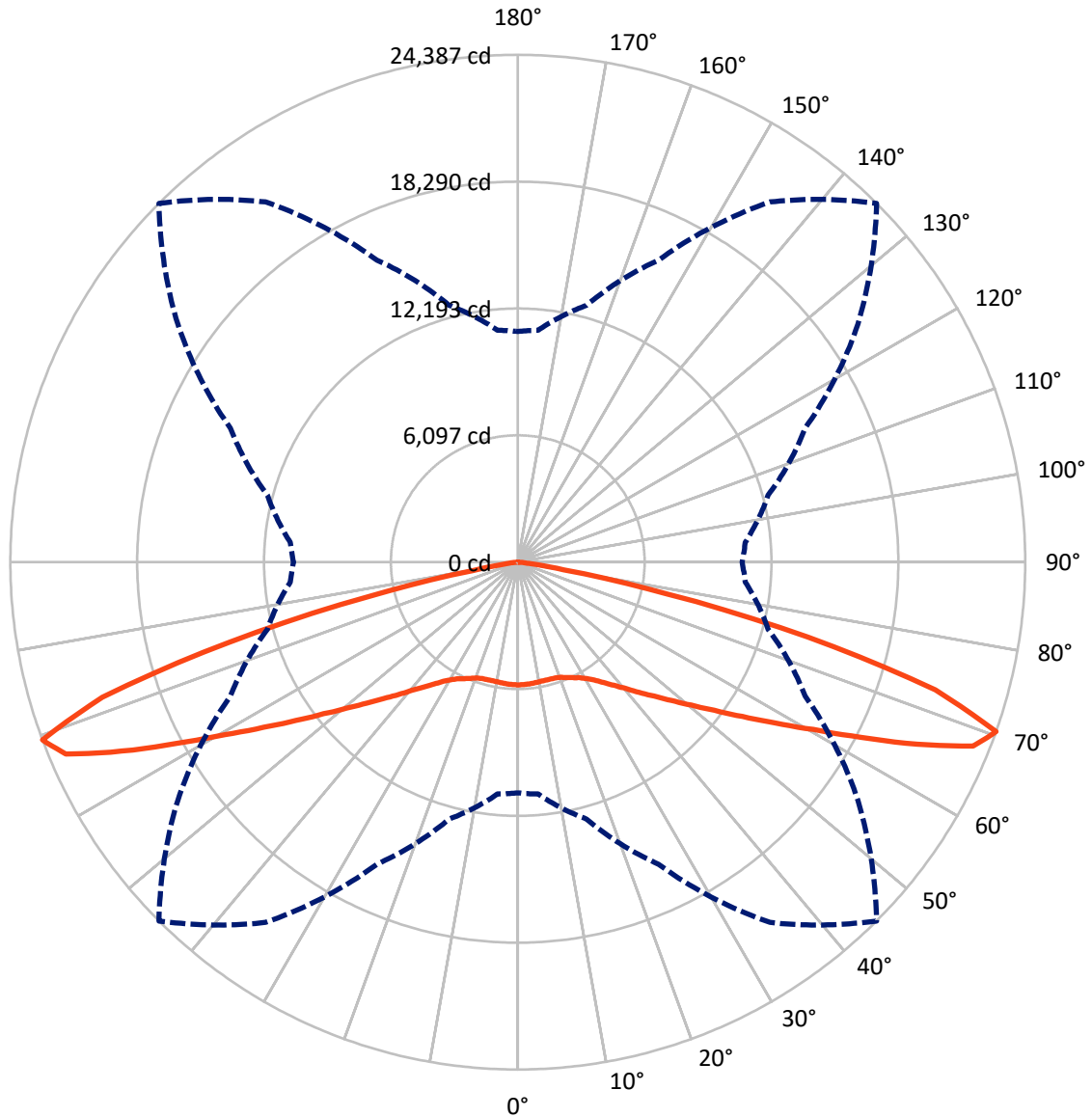
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	26559.5	0.0	26559.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26559.5	0.0	26559.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	53119.0	0.0	53119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.3	1.1
10°-20°	1641.4	3.1
20°-30°	2807.3	5.3
30°-40°	4455.8	8.4
40°-50°	7188.3	13.5
50°-60°	11695.6	22.0
60°-70°	16954.4	31.9
70°-80°	7520.3	14.2
80°-90°	296.6	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°	53119.0	100.0
0°-180°	53119.0	100.0

Coefficient of Utilization



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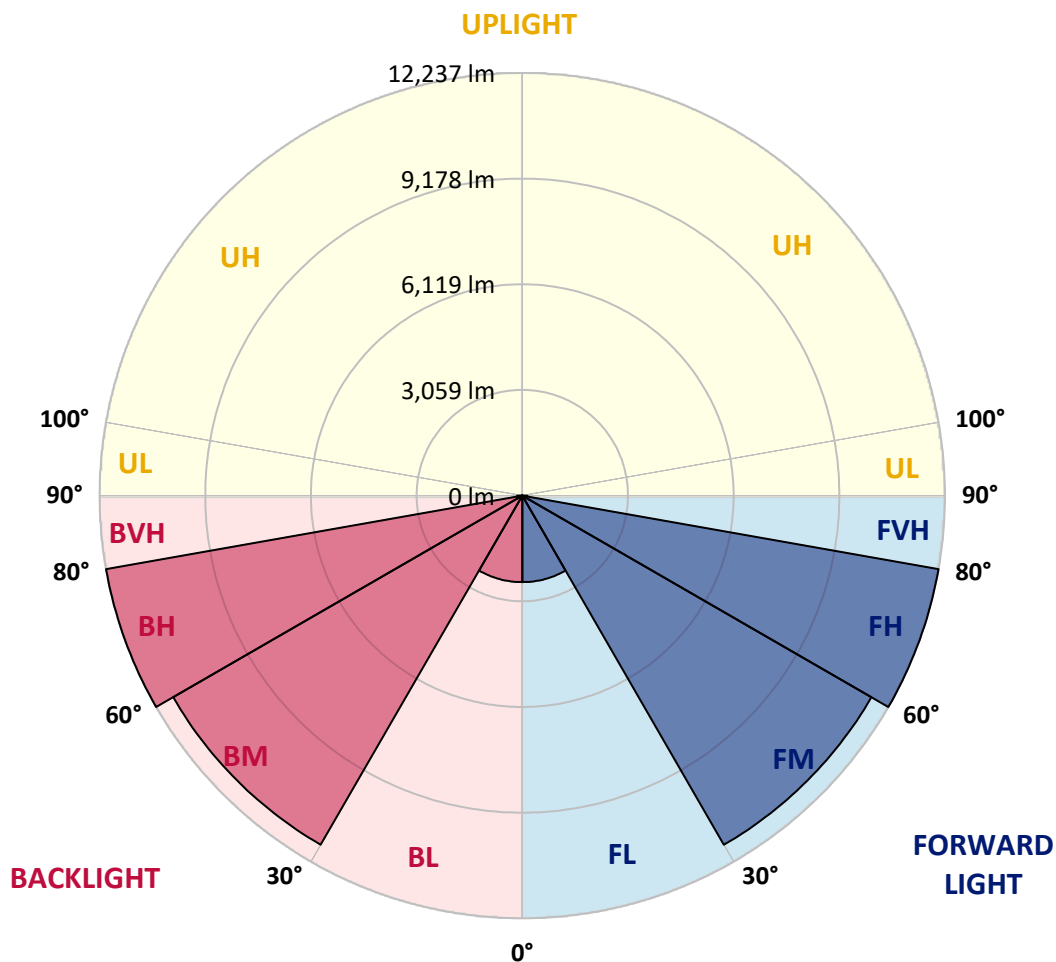
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2504.0	4.7			
FM (30°-60°)	11669.8	22.0			
FH (60°-80°)	12237.3	23.0			G5
FVH (80°-90°)	148.3	0.3			G2/225
BL (0°-30°)	2504.0	4.7	B4/5000		
BM (30°-60°)	11669.8	22.0	B5		
BH (60°-80°)	12237.3	23.0	B5		G5
BVH (80°-90°)	148.3	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°	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6	5898.6
2.5°	5898.6	5904.2	5895.8	5890.2	5887.4	5887.4	5884.6	5887.4	5904.2	5907.0	5898.6
5°	5881.8	5887.4	5884.6	5879.0	5876.2	5876.2	5873.4	5870.6	5884.6	5890.2	5887.4
7.5°	5859.4	5862.2	5859.4	5856.6	5859.4	5856.6	5848.2	5842.6	5853.8	5853.8	5851.0
10°	5820.2	5825.8	5823.0	5825.8	5831.4	5831.4	5820.2	5809.0	5811.8	5806.2	5806.2
12.5°	5772.6	5781.0	5783.8	5795.0	5809.0	5825.8	5800.6	5775.4	5769.8	5767.0	5764.2
15°	5741.8	5750.2	5761.4	5772.6	5797.8	5834.2	5797.8	5758.6	5747.4	5736.2	5730.6
17.5°	5733.4	5744.6	5761.4	5778.2	5811.8	5848.2	5817.4	5778.2	5750.2	5733.4	5727.8
20°	5755.8	5764.2	5789.4	5820.2	5867.8	5904.2	5873.4	5831.4	5789.4	5764.2	5755.8
22.5°	5800.6	5814.6	5845.4	5901.4	5968.6	6021.8	5979.8	5909.8	5842.6	5809.0	5797.8
25°	5898.6	5909.8	5946.2	6021.8	6100.2	6150.6	6105.8	6024.6	5932.2	5887.4	5873.4
27.5°	6047.0	6063.8	6103.0	6192.6	6257.0	6285.0	6254.2	6198.2	6131.0	6083.4	6072.2
30°	6257.0	6276.6	6335.3	6430.5	6472.5	6489.3	6475.3	6438.9	6391.3	6340.9	6329.7
32.5°	6539.7	6550.9	6618.1	6707.7	6746.9	6752.5	6735.7	6718.9	6640.5	6556.5	6550.9
35°	6856.1	6875.7	6956.8	7063.2	7099.6	7102.4	7068.8	7043.6	6951.2	6884.0	6884.0
37.5°	7276.0	7284.4	7362.8	7483.1	7522.3	7511.1	7494.3	7472.0	7374.0	7287.2	7290.0
40°	7768.7	7785.5	7852.7	7992.7	7992.7	7978.7	7989.9	7973.1	7875.1	7791.1	7793.9
42.5°	8353.8	8362.2	8443.4	8591.8	8580.6	8552.6	8563.8	8541.4	8479.8	8384.6	8351.0
45°	8978.1	9011.7	9151.7	9294.4	9272.1	9182.5	9227.3	9221.7	9165.7	9022.9	9031.3
47.5°	9731.2	9787.2	9921.5	10092.3	10067.1	9927.1	9977.5	10011.1	9932.7	9776.0	9748.0
50°	10579.4	10615.8	10814.6	10974.2	10951.8	10803.4	10918.2	10923.8	10727.8	10506.6	10506.6
52.5°	11483.7	11520.1	11788.8	12038.0	12052.0	11836.4	11928.8	11923.2	11604.1	11312.9	11256.9
55°	12497.1	12513.9	12861.1	13227.8	13306.2	13096.2	13107.4	12995.4	12581.1	12242.4	12211.6
57.5°	13544.1	13605.7	13989.3	14465.2	14697.5	14568.8	14510.0	14210.4	13810.1	13421.0	13401.4
60°	14703.1	14705.9	15204.3	15767.0	16237.3	16324.1	16083.3	15683.0	15165.1	14650.0	14627.6
62.5°	15506.6	15627.0	16256.9	17208.7	18051.4	18538.5	17903.0	17063.1	16044.1	15212.7	15128.7
65°	15671.8	15753.0	16713.2	18325.7	20047.5	21097.3	19627.5	17841.4	16102.9	14994.3	14938.3
67.5°	14336.4	14423.2	15716.6	18191.4	21447.2	23600.1	20747.3	17466.3	15106.3	13734.5	13625.3
70°	11088.9	11186.9	12785.5	16013.3	21136.5	24386.7	19949.5	15235.1	12457.9	10977.0	10778.2
72.5°	5895.8	6257.0	7623.1	10991.0	17155.5	20996.5	16357.7	11116.9	8034.7	6567.7	6304.5
75°	2152.8	2197.6	2959.1	4874.0	9980.3	14398.0	10363.9	5302.3	3048.7	2354.4	2234.0
77.5°	890.3	887.5	974.2	1472.6	3625.4	7374.0	4045.3	1556.5	971.4	898.6	887.5
80°	526.3	526.3	579.5	613.1	954.6	2225.6	1066.6	694.3	582.3	531.9	540.3
82.5°	235.2	249.2	366.7	386.3	461.9	610.3	515.1	442.3	380.7	263.2	238.0
85°	128.8	112.0	193.2	201.6	221.2	226.8	243.6	240.8	221.2	128.8	131.6
87.5°	25.2	30.8	56.0	42.0	47.6	42.0	56.0	78.4	81.2	44.8	36.4
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)