

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: P651049

Luminaire Tested: **GALN-SA8C-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651049
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-SA8C-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 42141.7 lumens
Efficiency: N/A
Efficacy: 98.2 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

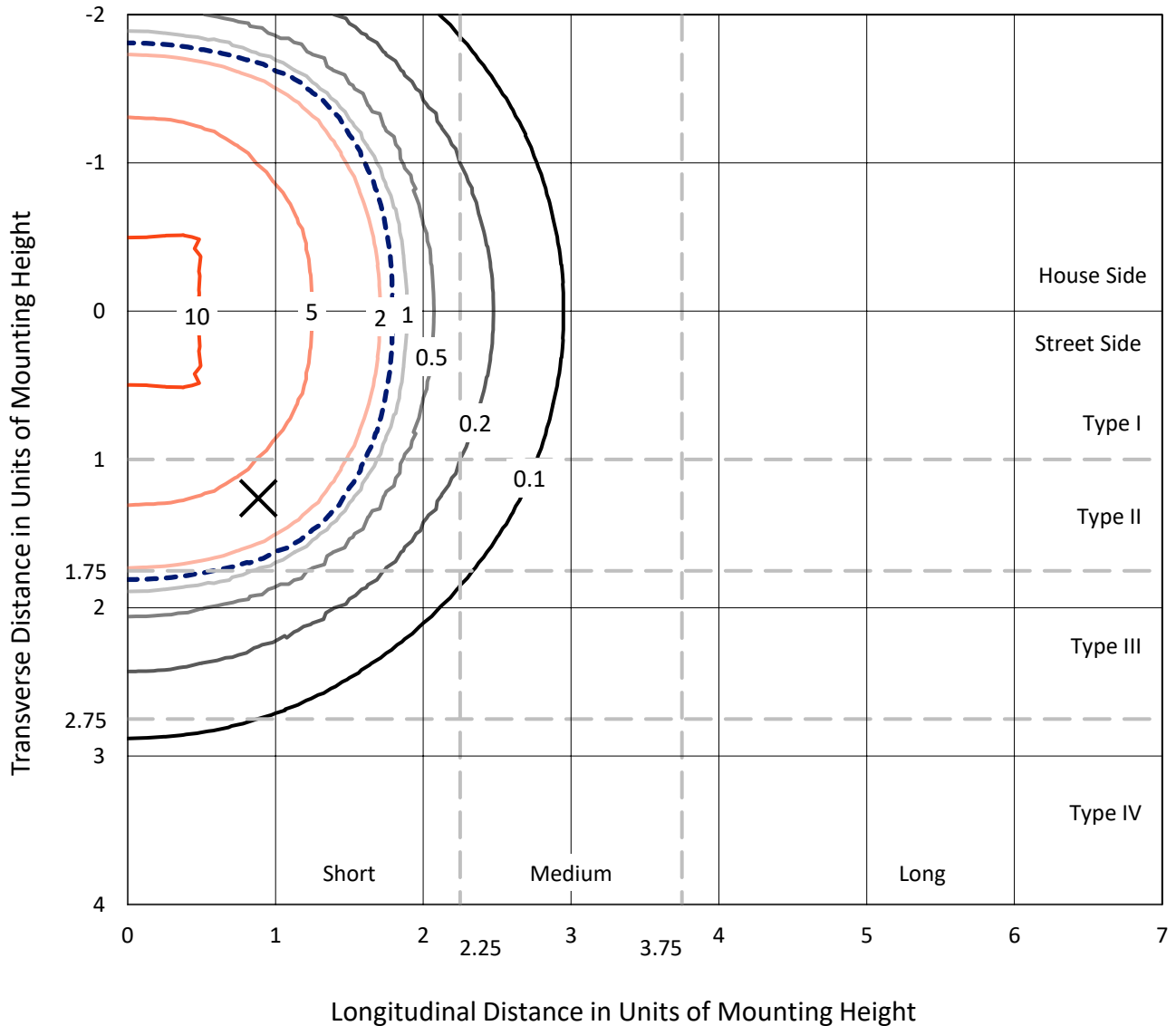
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

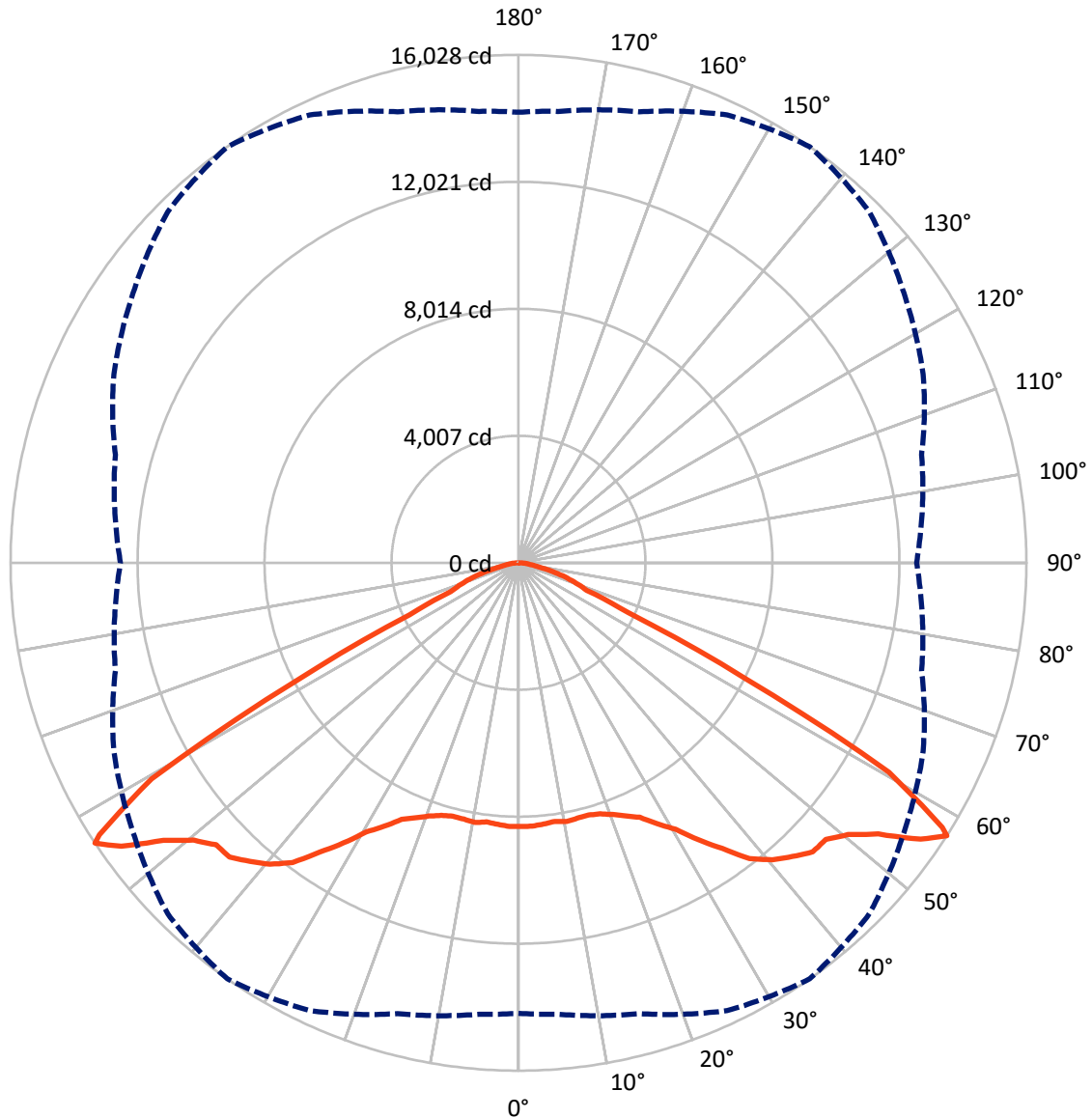
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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
House Side	Lumens	21070.8	0.0	21070.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21070.8	0.0	21070.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	42141.7	0.0	42141.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.0	1.9
10°-20°	2336.9	5.5
20°-30°	4081.3	9.7
30°-40°	6687.3	15.9
40°-50°	9805.2	23.3
50°-60°	12350.4	29.3
60°-70°	4644.9	11.0
70°-80°	1235.0	2.9
80°-90°	211.8	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°	42141.7	100.0
0°-180°	42141.7	100.0

Coefficient of Utilization



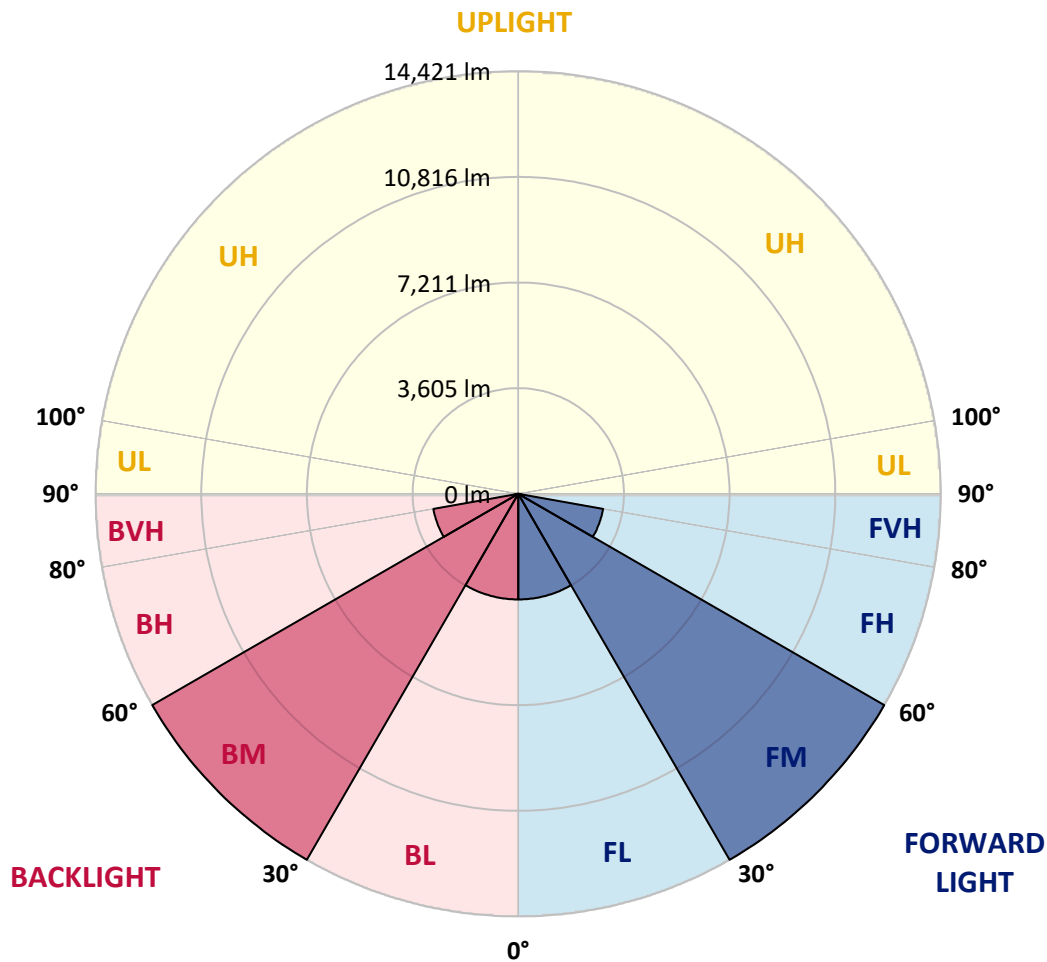
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3603.6	8.6			
FM (30°-60°)	14421.4	34.2			
FH (60°-80°)	2940.0	7.0			G2/5000
FVH (80°-90°)	105.9	0.3			G2/225
BL (0°-30°)	3603.6	8.6	B4/5000		
BM (30°-60°)	14421.4	34.2	B5		
BH (60°-80°)	2940.0	7.0	B4/5000		G2/5000
BVH (80°-90°)	105.9	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°	8322.7	8322.7	8322.7	8322.7	8322.7	8322.7	8322.7	8322.7	8322.7	8322.7	8322.7
2.5°	8281.2	8364.2	8327.8	8307.1	8322.7	8296.7	8255.2	8301.9	8291.5	8250.0	8234.4
5°	8260.4	8322.7	8281.2	8322.7	8281.2	8353.8	8333.0	8255.2	8348.6	8260.4	8291.5
7.5°	8244.8	8265.5	8275.9	8255.2	8239.6	8327.8	8281.2	8244.8	8192.9	8177.3	8203.3
10°	8208.4	8260.4	8182.5	8286.3	8307.1	8244.8	8244.8	8177.3	8135.7	8109.8	8198.1
12.5°	8301.9	8213.6	8203.3	8255.2	8270.7	8296.7	8224.1	8187.6	8109.8	8120.2	8104.6
15°	8192.9	8229.2	8234.4	8244.8	8260.4	8322.7	8255.2	8177.3	8146.2	8037.1	8047.5
17.5°	8234.4	8198.1	8234.4	8353.8	8333.0	8379.8	8307.1	8187.6	8115.0	8052.7	8135.7
20°	8307.1	8291.5	8307.1	8452.5	8478.5	8520.0	8457.7	8348.6	8208.4	8135.7	8177.3
22.5°	8384.9	8374.6	8384.9	8525.1	8675.8	8727.6	8665.3	8410.9	8338.3	8203.3	8156.5
25°	8525.1	8535.6	8644.6	8800.3	8899.0	8997.6	8883.4	8701.7	8468.0	8384.9	8286.3
27.5°	8836.6	8862.6	8924.9	9153.4	9324.7	9413.0	9252.0	9002.8	8857.4	8686.1	8660.1
30°	9220.9	9220.9	9329.9	9527.2	9760.8	9895.8	9698.5	9402.6	9226.1	9132.6	9075.5
32.5°	9729.7	9672.6	9714.1	10062.0	10425.4	10539.7	10274.8	9911.4	9631.0	9506.4	9464.9
35°	10165.8	10202.2	10295.6	10669.4	11074.4	11339.2	10923.8	10451.4	10165.8	10051.5	10030.8
37.5°	10731.7	10794.1	10840.7	11354.8	11842.8	11941.4	11541.6	11162.7	10814.8	10721.3	10669.4
40°	11531.3	11489.7	11505.3	11884.3	12325.6	12387.9	11993.3	11723.4	11437.9	11380.7	11380.7
42.5°	12190.6	12144.0	12195.8	12336.0	12673.5	12626.8	12408.7	12211.4	12092.0	12029.7	12092.0
45°	12590.4	12580.0	12673.5	12777.3	13016.2	12860.4	12689.1	12720.2	12606.0	12502.1	12497.0
47.5°	13026.6	12959.1	13073.3	13229.0	13047.4	12974.6	12964.3	13031.7	12995.4	12813.7	12756.5
50°	13239.4	13213.5	13395.2	13576.9	13478.3	13312.1	13348.4	13457.5	12990.3	12746.2	12606.0
52.5°	13810.6	13815.7	14163.6	14262.3	14220.7	13976.7	14054.5	13758.6	13208.2	12865.6	12881.2
55°	14708.8	14672.4	15061.8	15352.5	15399.3	15087.8	14714.0	14298.6	13608.1	13260.2	13156.4
57°	14215.5	14298.6	14729.5	15591.4	16027.5	15658.8	14843.7	14085.7	13166.8	12746.2	12559.3
57.5°	13556.2	13691.1	14438.8	15305.8	15762.7	15731.6	14682.8	13691.1	12870.8	12216.6	12232.2
60°	9932.2	9958.1	10633.1	12009.0	13436.7	13467.9	12190.6	10877.1	9963.3	9252.0	9350.7
62.5°	5238.7	5358.1	5628.1	6734.0	7969.7	8270.7	7497.2	6822.2	6033.0	5493.1	5545.0
65°	2772.5	2756.9	2886.7	3198.2	3805.7	3961.4	3857.6	3322.9	3047.7	2959.4	2964.6
67.5°	2253.3	2279.3	2263.7	2279.3	2320.8	2388.3	2372.7	2393.5	2409.0	2435.0	2429.8
70°	1910.7	1910.7	1921.0	1926.2	1926.2	1957.3	1993.7	2061.2	2066.4	2092.3	2102.8
72.5°	1505.6	1495.3	1510.9	1547.2	1552.4	1578.4	1630.3	1671.8	1687.4	1687.4	1656.3
75°	1022.8	1033.2	1053.9	1085.1	1116.3	1163.0	1204.6	1230.5	1240.9	1225.3	1209.7
77.5°	576.3	586.7	602.2	649.0	685.3	726.9	773.6	799.5	825.5	830.7	799.5
80°	342.7	342.7	368.6	404.9	446.5	488.0	529.6	560.7	571.1	571.1	555.6
82.5°	207.6	212.9	233.6	270.0	306.3	332.3	368.6	394.6	415.4	410.2	399.8
85°	109.0	109.0	129.8	161.0	186.9	212.9	212.9	197.3	186.9	161.0	150.5
87.5°	36.3	31.1	41.5	41.5	36.3	41.5	41.5	46.8	46.8	46.8	46.8
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)