

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: P529400

Luminaire Tested: **GALN-SA4C-740-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24369 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

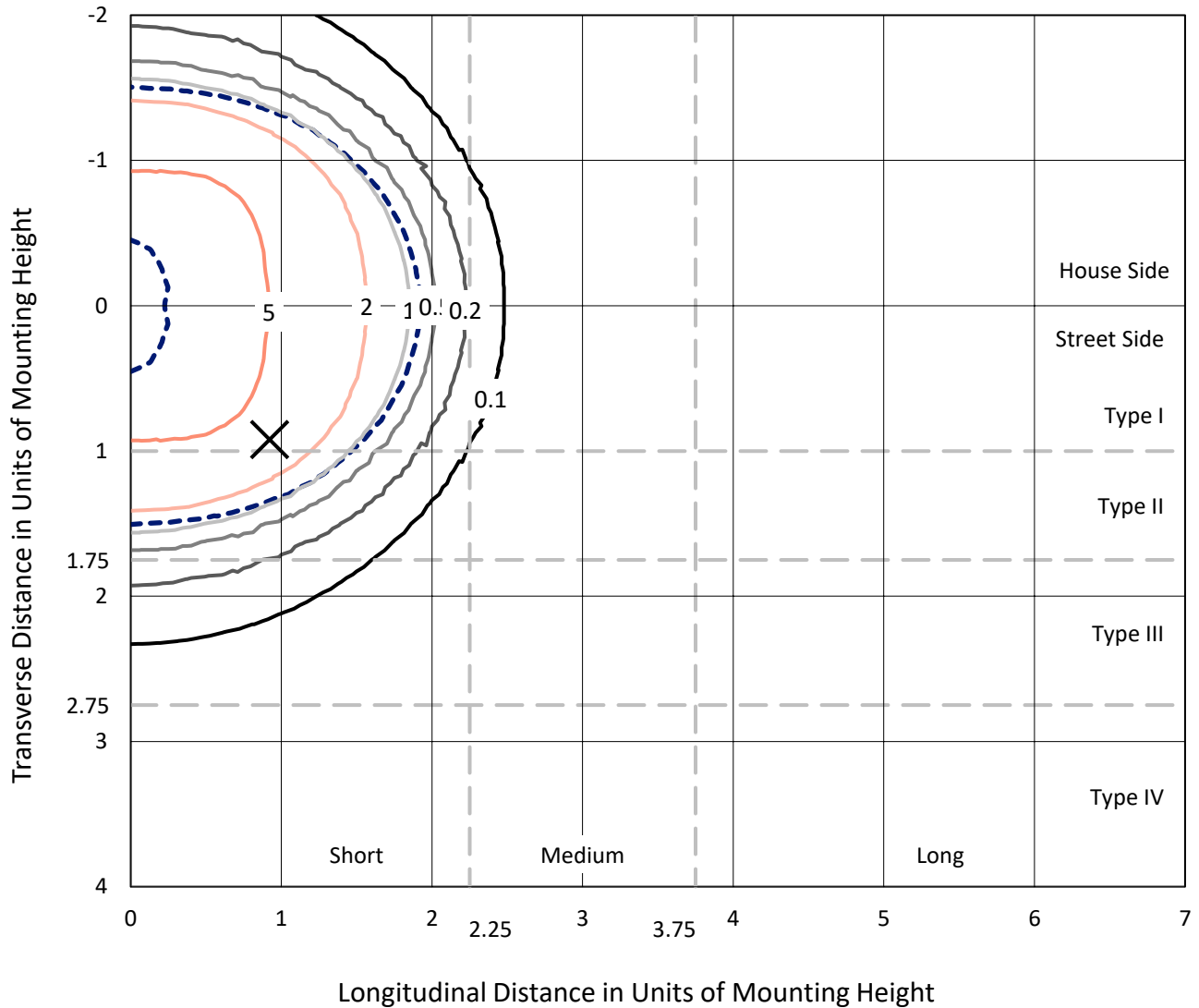
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

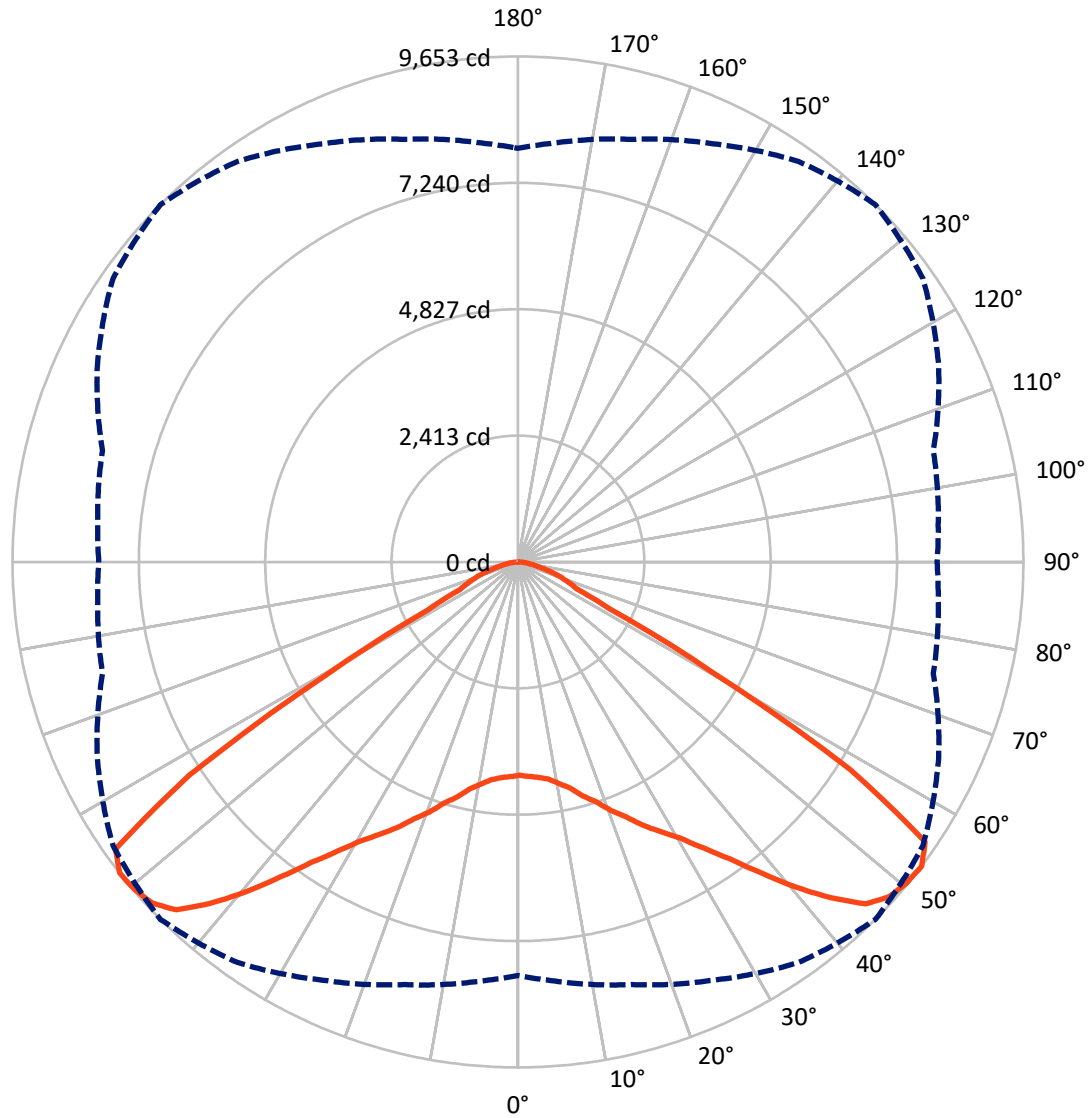
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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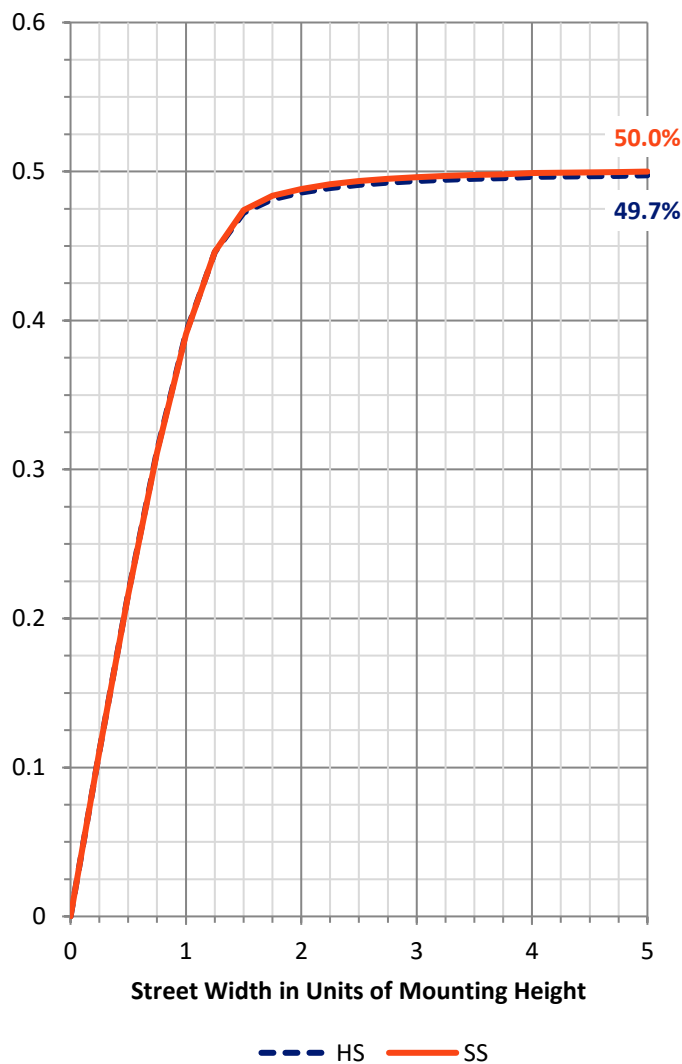
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12184.5	0.0	12184.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12184.5	0.0	12184.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24369.0	0.0	24369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.2	1.6
10°-20°	1315.1	5.4
20°-30°	2503.7	10.3
30°-40°	4299.1	17.6
40°-50°	6607.9	27.1
50°-60°	6710.2	27.5
60°-70°	1870.0	7.7
70°-80°	551.6	2.3
80°-90°	111.1	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°	24369.0	100.0
0°-180°	24369.0	100.0

Coefficient of Utilization



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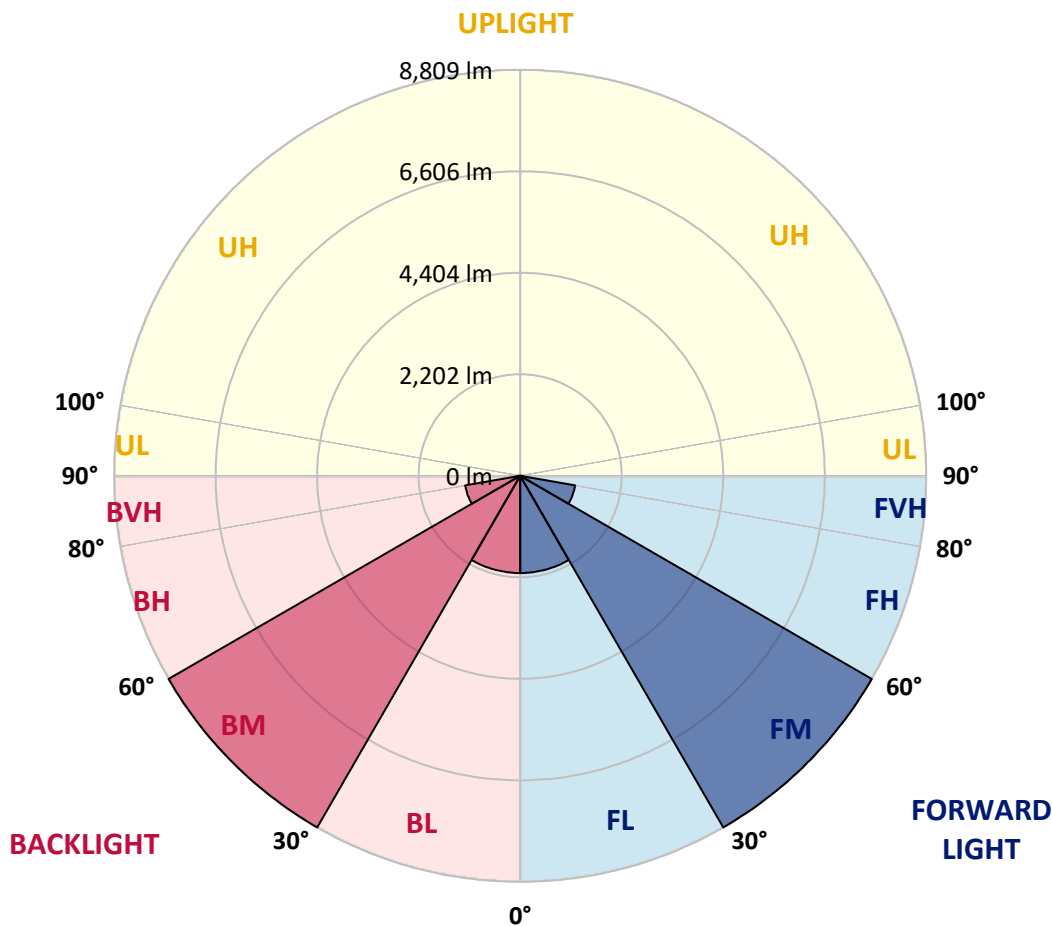
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2109.5	8.7			
FM (30°-60°)	8808.6	36.1			
FH (60°-80°)	1210.8	5.0			G1/1800
FVH (80°-90°)	55.6	0.2			G1/100
BL (0°-30°)	2109.5	8.7	B3/2500		
BM (30°-60°)	8808.6	36.1	B5		
BH (60°-80°)	1210.8	5.0	B3/2500		G1/1800
BVH (80°-90°)	55.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4073.6	4073.6	4073.6	4073.6	4073.6	4073.6	4073.6	4073.6	4073.6	4073.6	4073.6
2.5°	4082.7	4040.3	4055.5	4064.5	4103.8	4100.8	4091.7	4103.8	4115.9	4119.0	4112.9
5°	4079.6	4049.4	4061.5	4070.6	4109.9	4131.1	4125.0	4176.4	4212.7	4203.6	4249.0
7.5°	4055.5	4073.6	4058.5	4103.8	4137.1	4188.5	4243.0	4291.3	4336.7	4388.1	4397.2
10°	4109.9	4109.9	4137.1	4173.4	4261.1	4300.4	4379.0	4448.6	4536.3	4596.8	4572.6
12.5°	4167.3	4176.4	4176.4	4270.2	4342.8	4430.5	4503.0	4596.8	4720.8	4793.4	4829.6
15°	4224.8	4230.9	4261.1	4388.1	4497.0	4636.1	4702.6	4787.3	4856.9	4993.0	4996.0
17.5°	4276.2	4309.5	4400.2	4542.4	4678.4	4811.5	4917.4	5005.1	5065.5	5120.0	5107.9
20°	4469.8	4494.0	4587.7	4729.9	4932.5	5062.5	5098.8	5113.9	5153.2	5262.1	5228.8
22.5°	4657.3	4666.3	4754.0	4971.8	5113.9	5286.3	5325.6	5316.5	5331.7	5358.9	5407.3
25°	4850.8	4865.9	4986.9	5171.4	5371.0	5576.6	5609.9	5540.3	5519.2	5549.4	5552.4
27.5°	5098.8	5101.8	5256.1	5416.3	5643.2	5836.7	5888.1	5833.7	5733.9	5758.1	5797.4
30°	5413.3	5392.2	5546.4	5776.2	6015.1	6124.0	6211.7	6184.5	6075.6	6054.5	6021.2
32.5°	5776.2	5782.3	5921.4	6172.4	6329.7	6511.1	6604.9	6559.5	6489.9	6453.6	6474.8
35°	6287.3	6314.5	6408.3	6617.0	6871.0	6961.7	7109.9	7013.1	6831.7	6877.0	6916.3
37.5°	6707.7	6786.3	6961.7	7209.7	7360.9	7527.2	7581.7	7451.6	7318.6	7264.1	7394.2
40°	7351.8	7327.6	7521.2	7769.2	7993.0	8159.3	8089.7	7959.7	7630.1	7633.1	7669.4
42.5°	7905.3	7917.4	8065.5	8361.9	8667.4	8770.2	8549.4	8231.9	7865.9	7826.6	7905.3
45°	8371.0	8419.4	8504.1	8900.2	9199.6	9311.5	8903.2	8528.2	8038.3	7875.0	8005.1
47.5°	8537.3	8616.0	8800.4	9163.3	9459.7	9550.4	9223.8	8685.5	8198.6	7932.5	8002.0
50°	8561.5	8534.3	8836.7	9169.4	9429.5	9626.0	9338.7	8800.4	8159.3	8020.2	7999.0
52.5°	7899.2	8032.3	8355.9	8812.5	9338.7	9653.3	9441.6	8863.9	8213.7	8056.5	8005.1
55°	6393.2	6235.9	6825.6	7593.8	8561.5	9435.5	9405.3	8897.2	8247.0	8117.0	8047.4
57.5°	3568.6	3613.9	3946.6	4781.3	6030.3	7481.9	8361.9	8546.4	8231.9	8156.3	8192.6
60°	1651.2	1666.3	1808.5	2198.6	2972.8	4243.0	5401.2	6577.6	7119.0	7227.8	7227.8
62.5°	1230.9	1224.8	1261.1	1330.6	1494.0	1950.6	2603.8	3538.3	4282.3	4802.4	4938.5
65°	1112.9	1109.9	1128.0	1152.2	1164.3	1227.8	1373.0	1660.3	1902.2	2041.3	2017.1
67.5°	973.8	970.8	976.8	991.9	1013.1	1046.4	1082.7	1143.1	1227.8	1221.8	1206.7
70°	786.3	786.3	795.4	807.5	831.7	871.0	913.3	955.6	1028.2	1043.3	1040.3
72.5°	580.6	571.6	589.7	613.9	638.1	686.5	731.9	771.2	822.6	837.7	831.7
75°	369.0	375.0	387.1	414.3	456.7	489.9	538.3	571.6	604.8	616.9	620.0
77.5°	205.6	211.7	232.9	266.1	308.5	344.8	387.1	414.3	435.5	438.5	441.5
80°	124.0	127.0	148.2	178.4	214.7	254.0	287.3	314.5	332.7	323.6	320.6
82.5°	75.6	78.6	96.8	124.0	154.2	184.5	220.8	245.0	263.1	251.0	238.9
85°	39.3	42.3	57.5	75.6	99.8	114.9	114.9	102.8	99.8	93.8	90.7
87.5°	12.1	12.1	15.1	18.1	15.1	18.1	21.2	24.2	24.2	27.2	24.2
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)