

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: P529342

Luminaire Tested: **GALN-SA4C-730-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22814 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

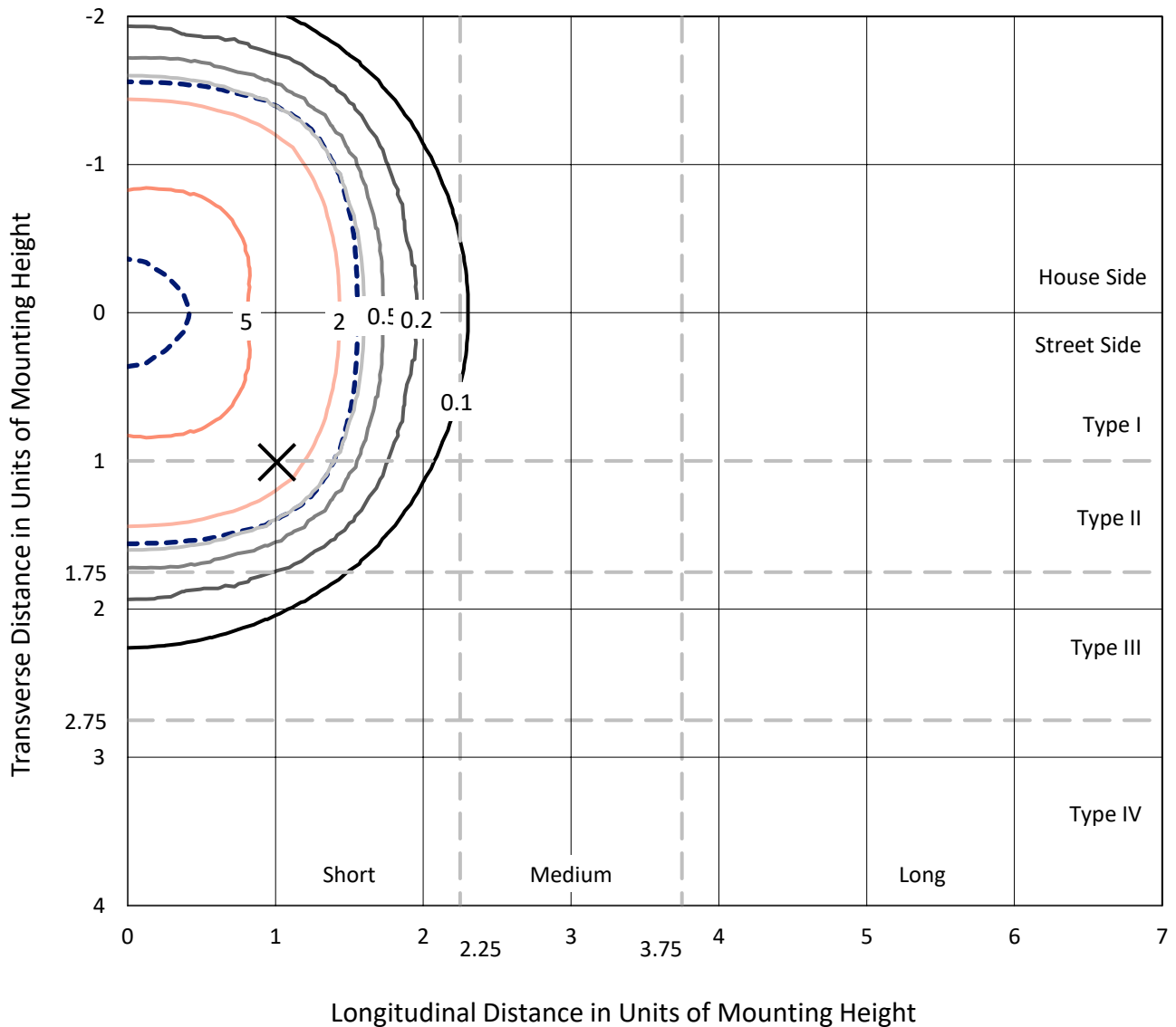
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

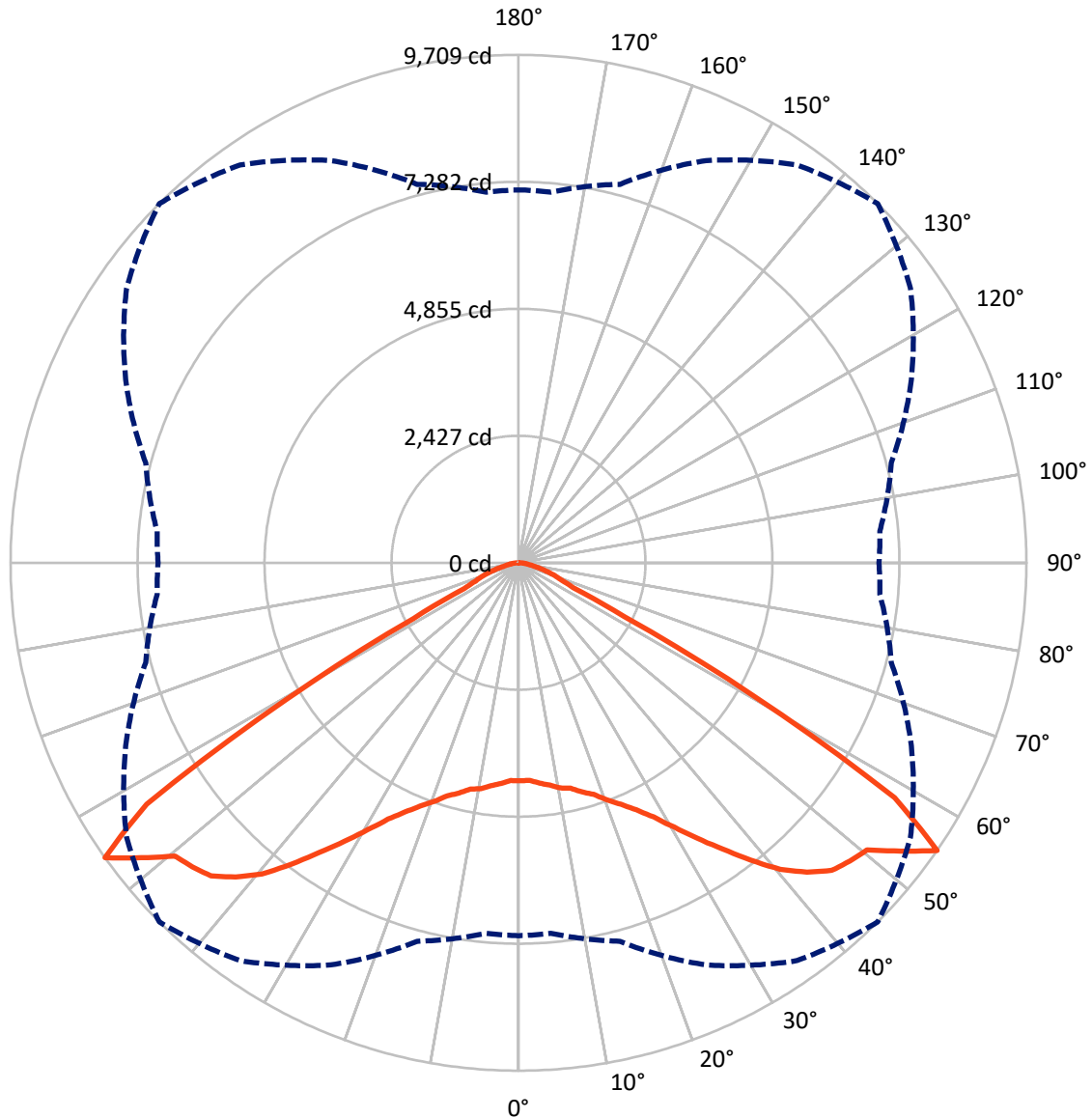
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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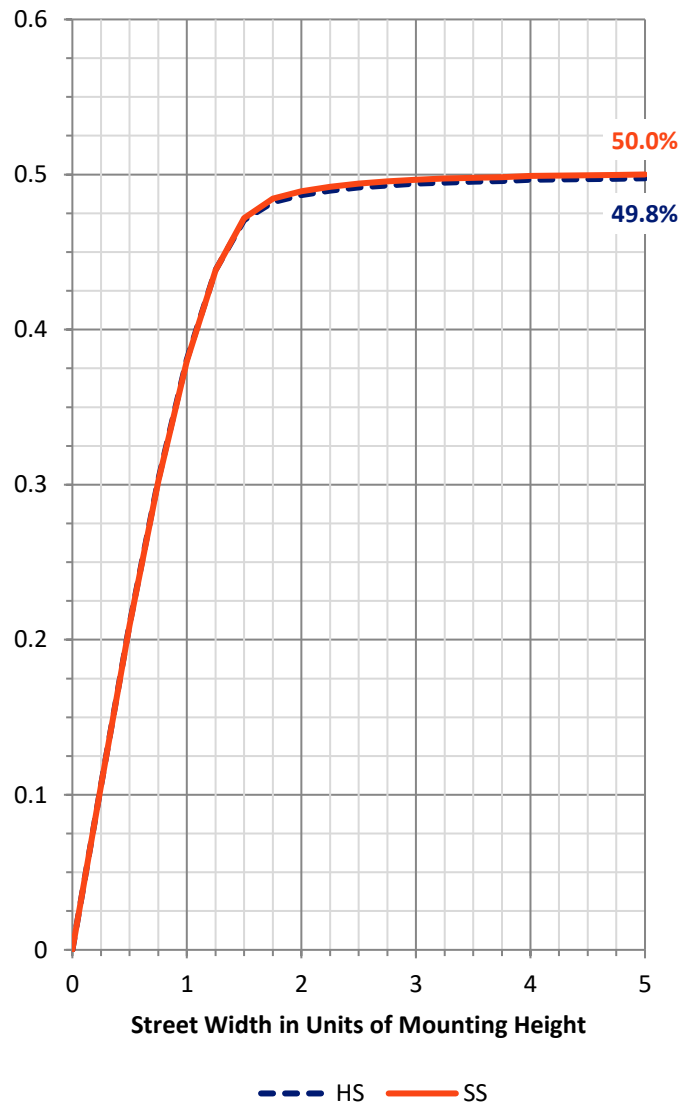
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11407.0	0.0	11407.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11407.0	0.0	11407.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22814.0	0.0	22814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.9	1.8
10°-20°	1289.4	5.7
20°-30°	2404.3	10.5
30°-40°	4025.5	17.6
40°-50°	6264.0	27.5
50°-60°	6504.0	28.5
60°-70°	1379.3	6.0
70°-80°	454.3	2.0
80°-90°	86.5	0.4
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°	22814.0	100.0
0°-180°	22814.0	100.0

Coefficient of Utilization

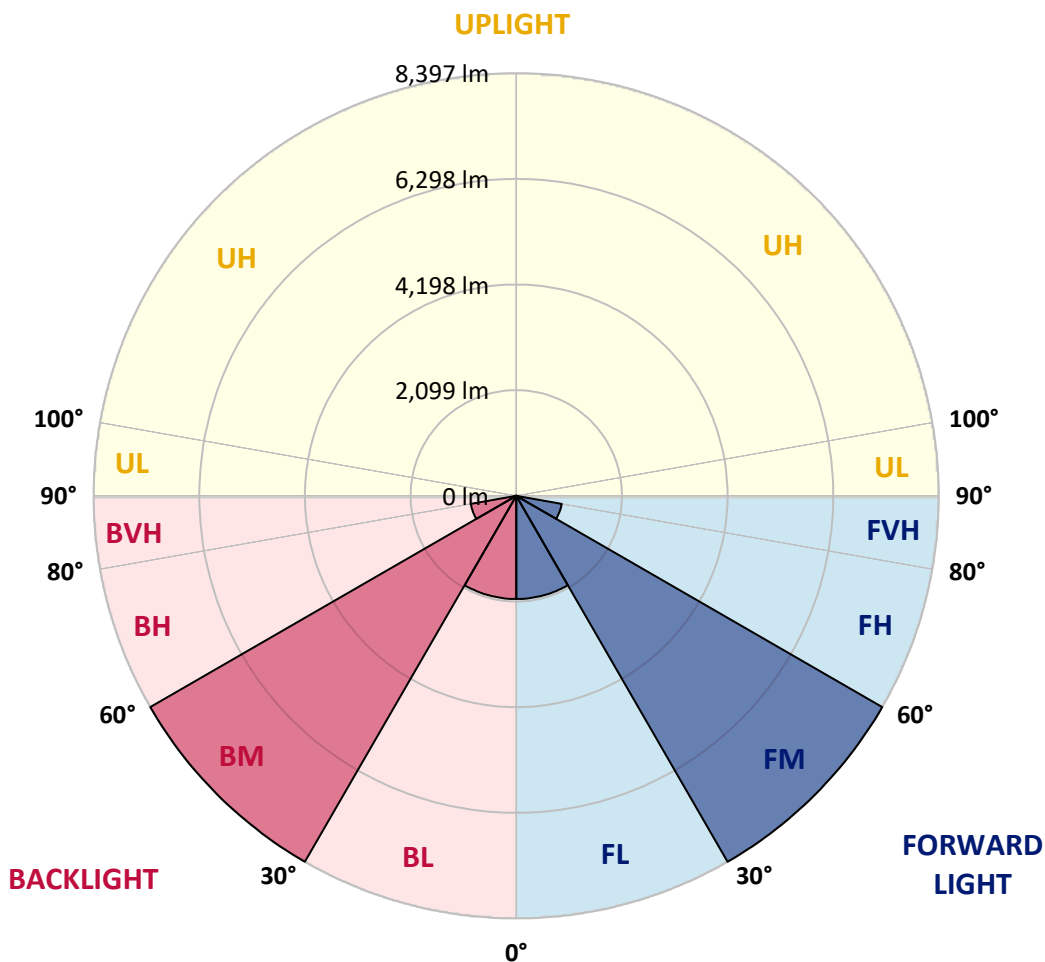


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2050.3	9.0			
FM (30°-60°)	8396.7	36.8			
FH (60°-80°)	916.8	4.0			G1/1800
FVH (80°-90°)	43.3	0.2			G1/100
BL (0°-30°)	2050.3	9.0	B3/2500		
BM (30°-60°)	8396.7	36.8	B4/8500		
BH (60°-80°)	916.8	4.0	B2/1000		G1/1800
BVH (80°-90°)	43.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4165.5	4165.5	4165.5	4165.5	4165.5	4165.5	4165.5	4165.5	4165.5	4165.5	4165.5
2.5°	4215.1	4195.8	4162.7	4187.6	4206.8	4165.5	4182.0	4190.3	4184.8	4162.7	4171.0
5°	4275.8	4264.7	4237.2	4256.5	4231.7	4231.7	4215.1	4193.1	4226.1	4220.6	4234.4
7.5°	4275.8	4262.0	4317.1	4281.3	4292.3	4292.3	4264.7	4242.7	4259.2	4234.4	4220.6
10°	4361.2	4380.5	4355.7	4364.0	4358.5	4377.8	4336.4	4322.6	4308.8	4300.6	4284.0
12.5°	4463.2	4449.4	4457.7	4452.2	4471.5	4421.9	4397.1	4366.7	4391.6	4355.7	4380.5
15°	4545.9	4537.7	4545.9	4568.0	4548.7	4545.9	4501.8	4471.5	4432.9	4441.2	4402.6
17.5°	4659.0	4650.7	4653.4	4672.7	4670.0	4656.2	4623.1	4565.2	4551.4	4529.4	4504.6
20°	4827.1	4813.3	4807.8	4816.1	4829.9	4840.9	4774.7	4752.7	4705.8	4670.0	4628.6
22.5°	4970.5	4965.0	4987.0	4951.2	4981.5	5014.6	4951.2	4940.2	4824.4	4805.1	4761.0
25°	5169.0	5160.7	5146.9	5199.3	5235.1	5232.4	5171.7	5111.1	5022.9	5000.8	5000.8
27.5°	5378.5	5331.6	5403.3	5417.1	5480.5	5499.8	5447.4	5359.2	5276.5	5229.6	5240.6
30°	5640.4	5596.3	5612.8	5712.1	5794.8	5866.4	5734.1	5604.5	5488.8	5406.0	5392.3
32.5°	5902.3	5858.2	5907.8	6004.3	6169.7	6277.2	6147.6	5921.6	5786.5	5665.2	5690.0
35°	6114.5	6147.6	6227.6	6373.7	6544.6	6718.3	6511.5	6337.8	6144.9	6009.8	6029.1
37.5°	6456.4	6558.4	6621.8	6790.0	7032.5	7211.7	6996.7	6770.7	6563.9	6387.5	6326.8
40°	6903.0	6971.9	7043.6	7242.1	7528.8	7708.0	7504.0	7209.0	7005.0	6823.0	6814.8
42.5°	7393.7	7459.8	7534.3	7776.9	7947.8	8082.9	7895.4	7738.3	7512.2	7368.9	7360.6
45°	7964.3	7917.5	8000.2	8160.1	8303.4	8391.6	8270.3	8193.2	8030.5	7898.2	7884.4
47.5°	8344.8	8303.4	8452.3	8595.6	8617.7	8521.2	8546.0	8617.7	8446.8	8229.0	8297.9
50°	8565.3	8565.3	8664.6	8796.9	8755.5	8631.5	8827.2	8832.7	8661.8	8468.8	8468.8
52.5°	8182.1	8267.6	8548.8	8981.6	9119.4	9155.3	9111.2	8923.7	8477.1	8082.9	8063.6
55°	7129.0	7109.7	7490.2	8482.6	9284.8	9709.4	9147.0	8284.1	7377.1	6933.3	6889.2
57.5°	4636.9	4659.0	5226.9	6238.6	7685.9	8477.1	7528.8	6315.8	5226.9	4614.9	4672.7
60°	2086.9	2161.3	2505.9	3261.3	4504.6	5149.7	4515.6	3426.7	2630.0	2282.6	2312.9
62.5°	1199.2	1213.0	1226.8	1455.6	1918.7	2268.8	1993.2	1538.3	1356.3	1295.7	1295.7
65°	1011.7	1003.5	1006.2	1025.5	1075.1	1146.8	1116.5	1075.1	1080.7	1075.1	1066.9
67.5°	860.1	871.1	862.9	876.7	879.4	890.4	909.7	926.3	929.0	934.5	929.0
70°	705.7	708.5	714.0	725.0	727.8	736.1	763.6	777.4	785.7	785.7	796.7
72.5°	540.3	537.6	543.1	554.1	567.9	570.7	595.5	614.8	625.8	612.0	614.8
75°	355.6	358.4	366.7	374.9	394.2	413.5	421.8	441.1	443.8	449.4	435.6
77.5°	212.3	217.8	226.1	242.6	259.1	275.7	295.0	308.8	314.3	308.8	292.2
80°	137.8	137.8	148.9	162.7	181.9	195.7	206.8	217.8	226.1	217.8	212.3
82.5°	85.5	85.5	99.2	115.8	129.6	137.8	154.4	168.2	176.4	170.9	162.7
85°	44.1	46.9	57.9	71.7	82.7	88.2	85.5	77.2	68.9	66.2	60.6
87.5°	13.8	13.8	16.5	16.5	13.8	13.8	16.5	13.8	16.5	16.5	16.5
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)