

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: P529395

Luminaire Tested: **GALN-SA4C-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
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-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14507 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

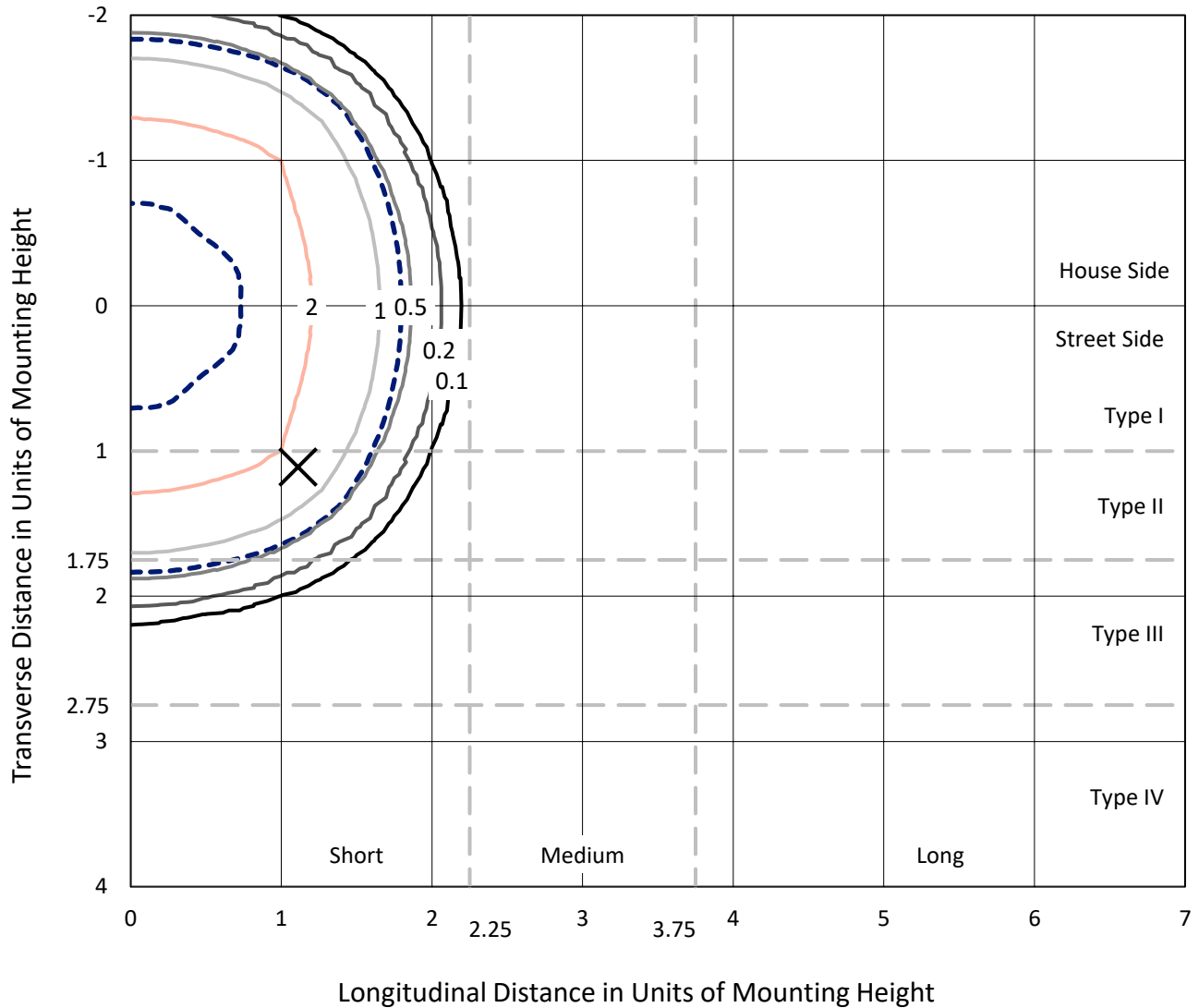
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

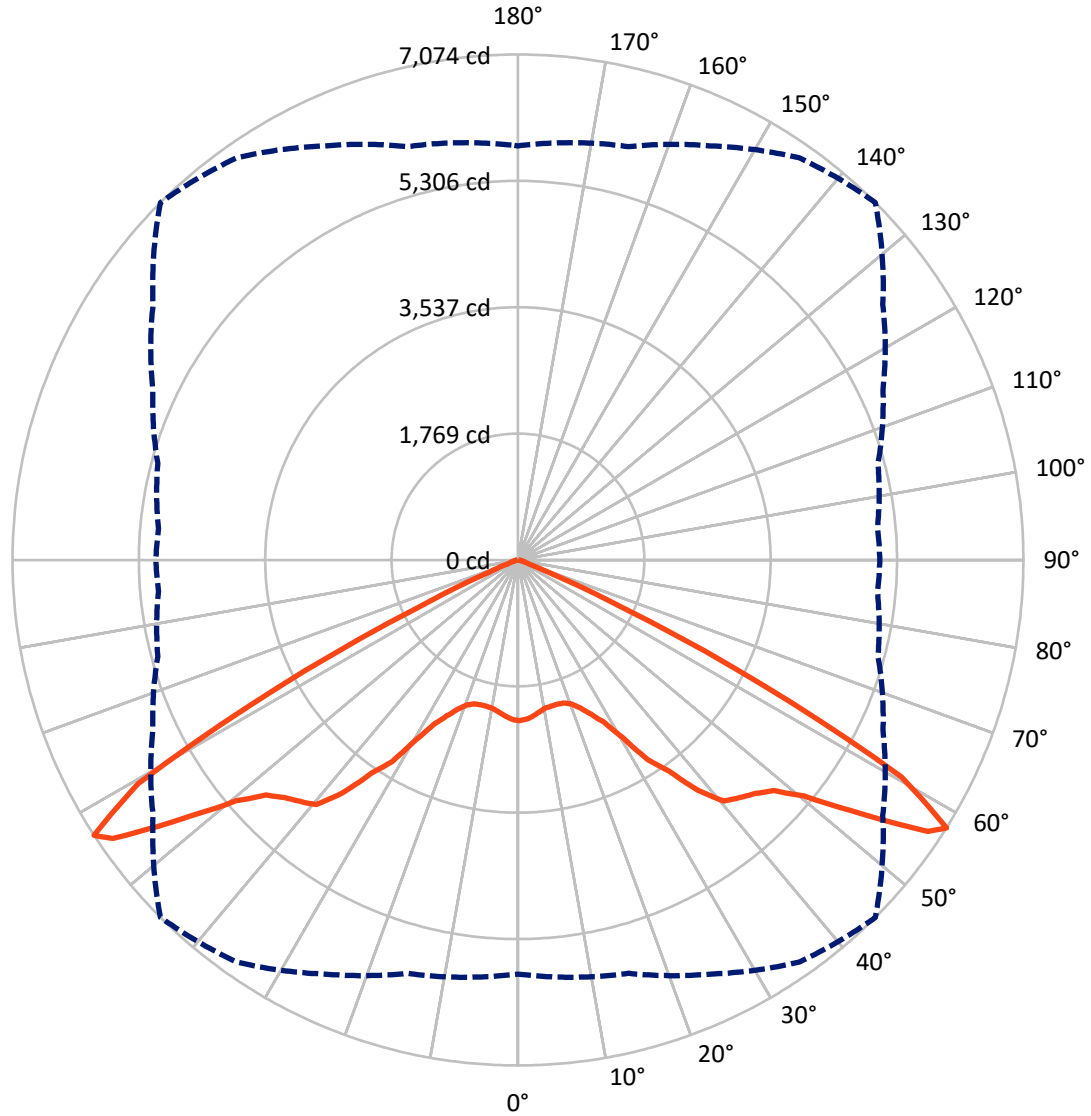
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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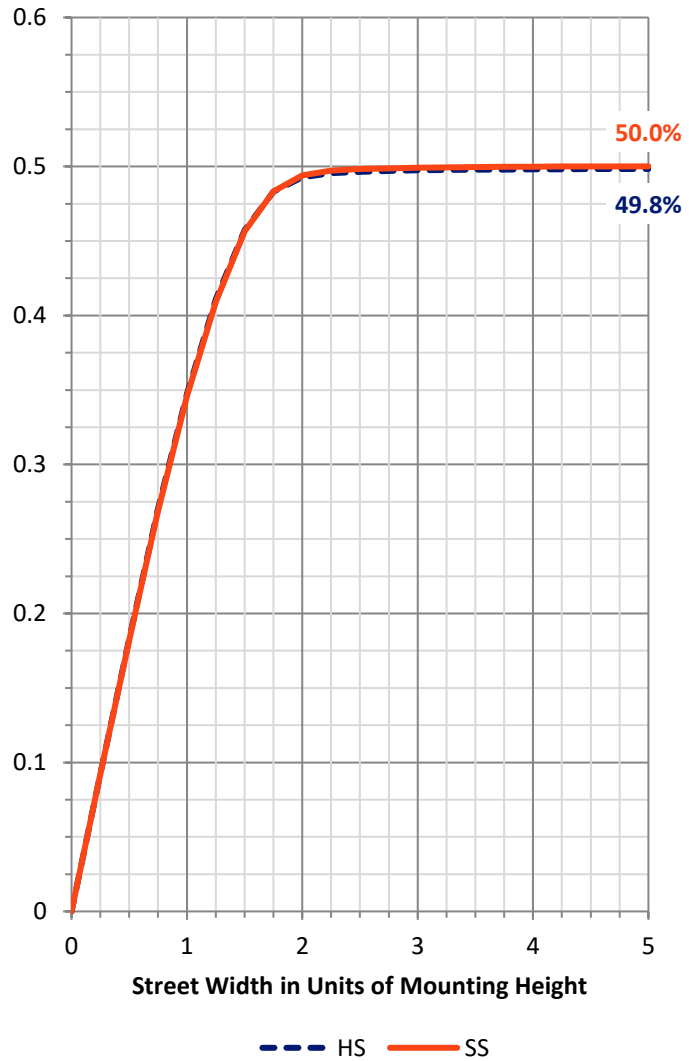
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7253.5	0.0	7253.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7253.5	0.0	7253.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14507.0	0.0	14507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	1.4
10°-20°	597.7	4.1
20°-30°	1103.3	7.6
30°-40°	2169.7	15.0
40°-50°	3533.8	24.4
50°-60°	5039.7	34.7
60°-70°	1744.9	12.0
70°-80°	93.6	0.6
80°-90°	17.6	0.1
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°	14507.0	100.0
0°-180°	14507.0	100.0

Coefficient of Utilization

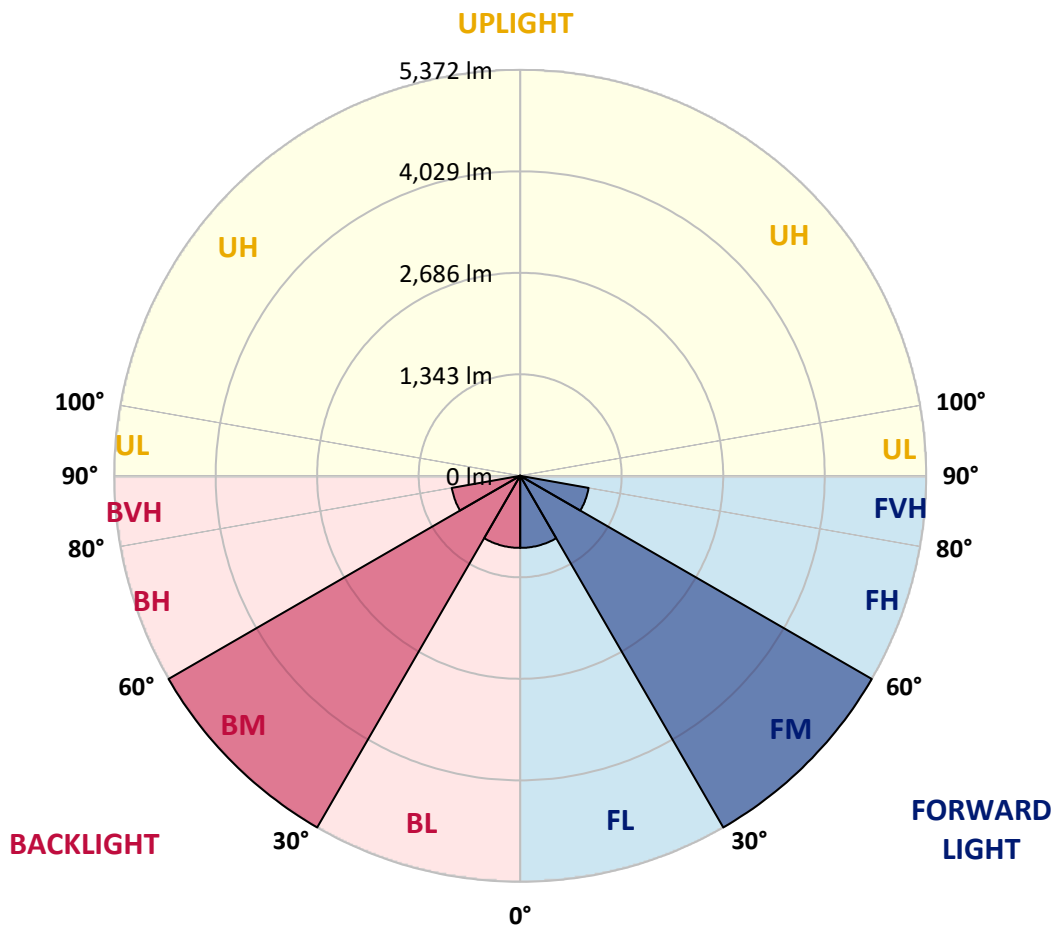


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	953.9	6.6			
FM (30°-60°)	5371.6	37.0			
FH (60°-80°)	919.2	6.3			G1/1800
FVH (80°-90°)	8.8	0.1			G0/10
BL (0°-30°)	953.9	6.6	B2/1000		
BM (30°-60°)	5371.6	37.0	B4/8500		
BH (60°-80°)	919.2	6.3	B2/1000		G1/1800
BVH (80°-90°)	8.8	0.1			G0/10
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°	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2	2250.2
2.5°	2244.1	2256.2	2241.1	2235.1	2232.0	2232.0	2223.0	2223.0	2219.9	2223.0	2210.9
5°	2207.8	2219.9	2219.9	2216.9	2198.8	2195.7	2186.7	2180.6	2183.6	2171.6	2180.6
7.5°	2171.6	2180.6	2168.5	2165.5	2159.5	2147.4	2144.3	2117.1	2120.1	2120.1	2126.2
10°	2165.5	2162.5	2144.3	2129.2	2111.1	2108.0	2099.0	2092.9	2092.9	2089.9	2099.0
12.5°	2165.5	2150.4	2147.4	2114.1	2083.8	2095.9	2071.7	2056.6	2077.8	2083.8	2095.9
15°	2162.5	2177.6	2126.2	2111.1	2089.9	2092.9	2071.7	2056.6	2068.7	2074.8	2083.8
17.5°	2180.6	2171.6	2156.4	2126.2	2117.1	2105.0	2077.8	2065.7	2065.7	2080.8	2083.8
20°	2229.0	2204.8	2174.6	2159.5	2168.5	2153.4	2120.1	2074.8	2086.9	2099.0	2108.0
22.5°	2274.4	2256.2	2235.1	2226.0	2277.4	2253.2	2195.7	2144.3	2126.2	2147.4	2162.5
25°	2362.1	2362.1	2322.8	2334.9	2392.3	2395.4	2328.8	2238.1	2226.0	2235.1	2241.1
27.5°	2540.5	2549.6	2516.3	2528.4	2552.6	2573.8	2516.3	2440.7	2413.5	2410.5	2419.6
30°	2734.1	2752.2	2749.2	2800.6	2870.2	2882.3	2797.6	2673.6	2591.9	2576.8	2588.9
32.5°	2988.2	2997.2	2991.2	3051.7	3239.2	3326.9	3106.1	2930.7	2821.8	2849.0	2821.8
35°	3466.0	3456.9	3390.4	3402.5	3556.7	3620.3	3408.6	3296.6	3245.2	3299.7	3287.6
37.5°	3877.3	3844.1	3789.6	3868.3	4028.6	4086.0	3865.2	3668.7	3574.9	3665.6	3704.9
40°	4225.2	4140.5	4064.9	4143.5	4358.2	4436.9	4113.2	3953.0	3916.7	3983.2	4067.9
42.5°	4518.5	4464.1	4364.3	4370.3	4512.5	4548.8	4288.7	4194.9	4158.6	4264.5	4306.8
45°	4727.2	4675.8	4582.0	4576.0	4684.9	4660.7	4427.8	4364.3	4385.4	4455.0	4476.2
47.5°	4833.1	4860.3	4805.8	4821.0	4878.4	4821.0	4636.5	4636.5	4588.1	4630.4	4609.3
50°	5138.5	5053.8	5123.4	5123.4	5183.9	5189.9	5005.5	4938.9	4808.9	4736.3	4736.3
52.5°	5495.4	5501.5	5528.7	5628.5	5731.3	5819.0	5555.9	5271.6	5053.8	4960.1	4948.0
55°	5788.8	5849.3	5958.2	6145.7	6442.1	6563.0	6109.4	5601.3	5335.1	5189.9	5159.7
56°	5949.1	5891.6	6079.1	6336.2	6723.3	6880.6	6200.1	5667.8	5374.4	5211.1	5208.1
57.5°	5794.8	5858.4	5988.4	6393.7	6868.5	7074.2	6233.4	5637.6	5217.2	5050.8	5065.9
60°	4576.0	4636.5	4811.9	5265.6	6009.6	6169.9	5274.6	4648.6	4273.5	4034.6	4037.6
62.5°	2588.9	2634.3	2770.4	3190.8	3653.5	3807.8	3287.6	2870.2	2610.1	2477.0	2434.7
65°	952.7	934.6	955.7	1170.5	1454.8	1584.8	1367.0	1155.3	1019.2	970.8	952.7
67.5°	356.9	329.7	308.5	329.7	414.3	438.5	402.3	335.7	314.5	323.6	329.7
70°	220.8	208.7	166.3	157.3	154.2	151.2	160.3	169.4	193.6	226.8	232.9
72.5°	154.2	145.2	118.0	111.9	105.9	102.8	118.0	130.1	151.2	175.4	178.4
75°	60.5	63.5	60.5	66.5	69.6	72.6	84.7	93.8	102.8	102.8	99.8
77.5°	12.1	12.1	18.1	24.2	30.2	39.3	57.5	66.5	69.6	66.5	57.5
80°	0.0	0.0	6.0	12.1	24.2	33.3	51.4	57.5	63.5	57.5	45.4
82.5°	0.0	0.0	6.0	15.1	24.2	30.2	48.4	60.5	69.6	63.5	48.4
85°	0.0	0.0	6.0	12.1	18.1	21.2	21.2	15.1	15.1	9.1	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)