

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: P533139

Luminaire Tested: **GALN-SA8C-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533139
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-SA8C-740-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 29613 lumens
Efficiency: N/A
Efficacy: 69.0 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

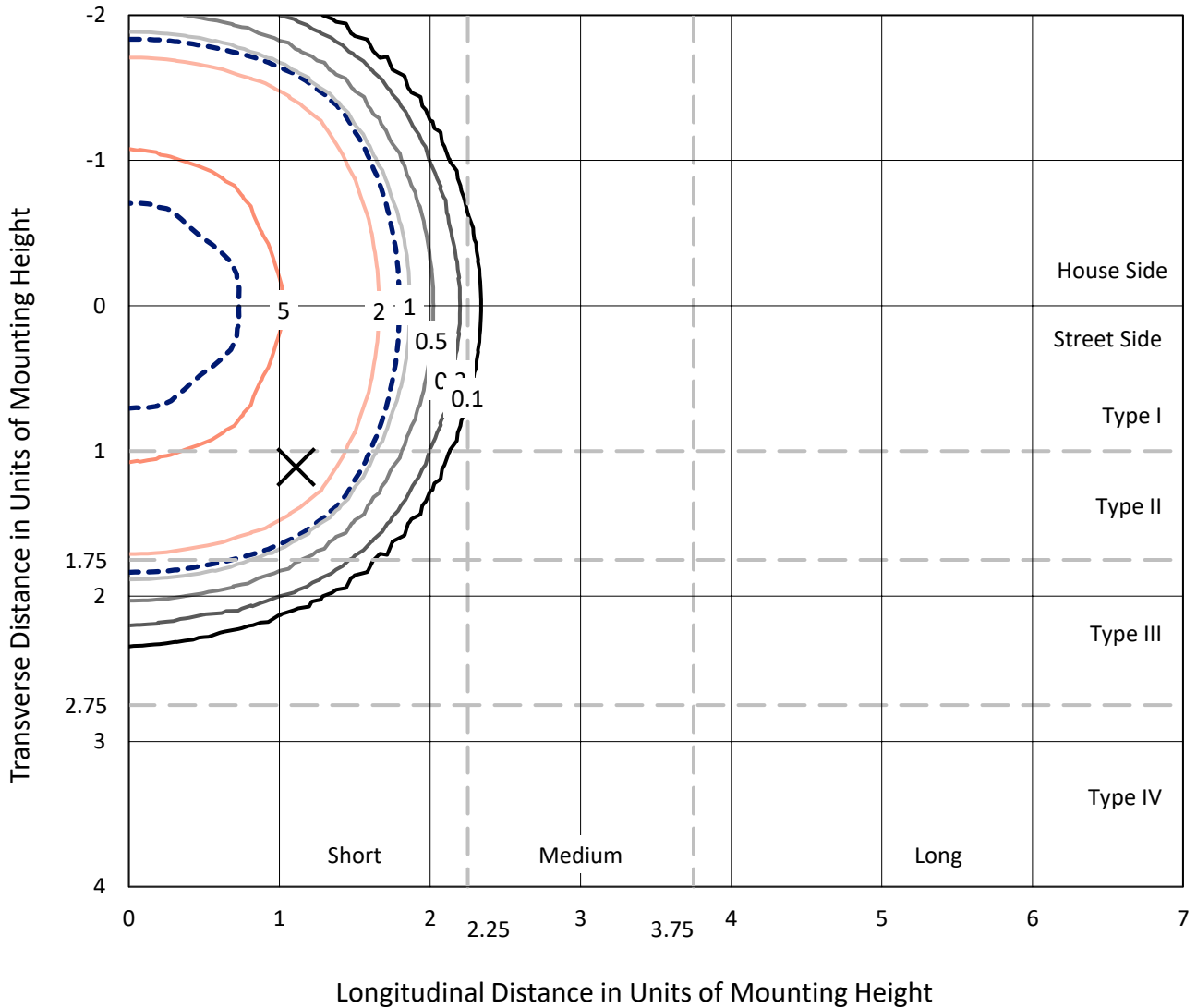
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

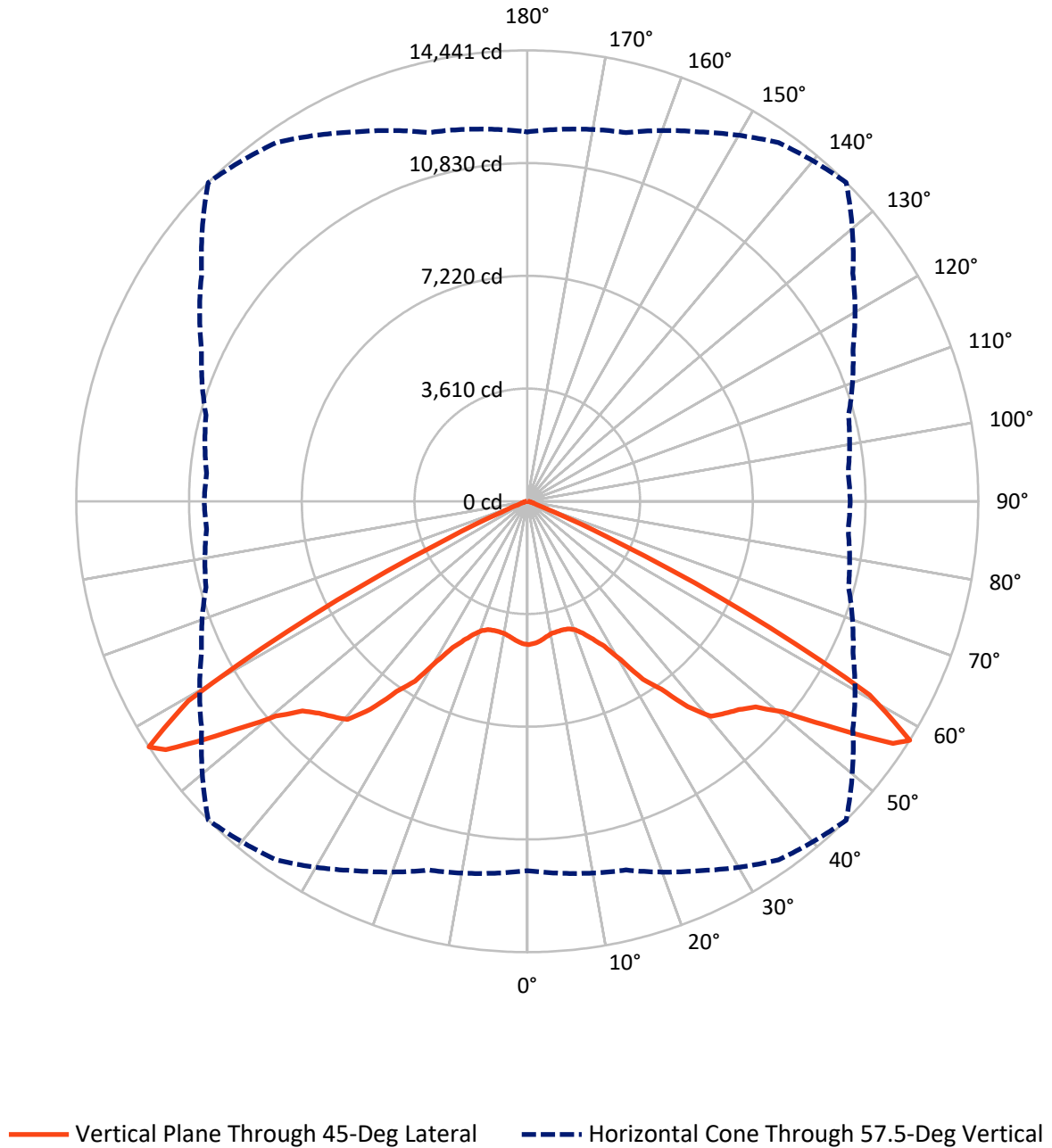
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14806.5	0.0	14806.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14806.5	0.0	14806.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29613.0	0.0	29613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.1	1.4
10°-20°	1220.1	4.1
20°-30°	2252.1	7.6
30°-40°	4429.0	15.0
40°-50°	7213.6	24.4
50°-60°	10287.5	34.7
60°-70°	3561.8	12.0
70°-80°	191.1	0.6
80°-90°	35.9	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°	29613.0	100.0
0°-180°	29613.0	100.0

Coefficient of Utilization



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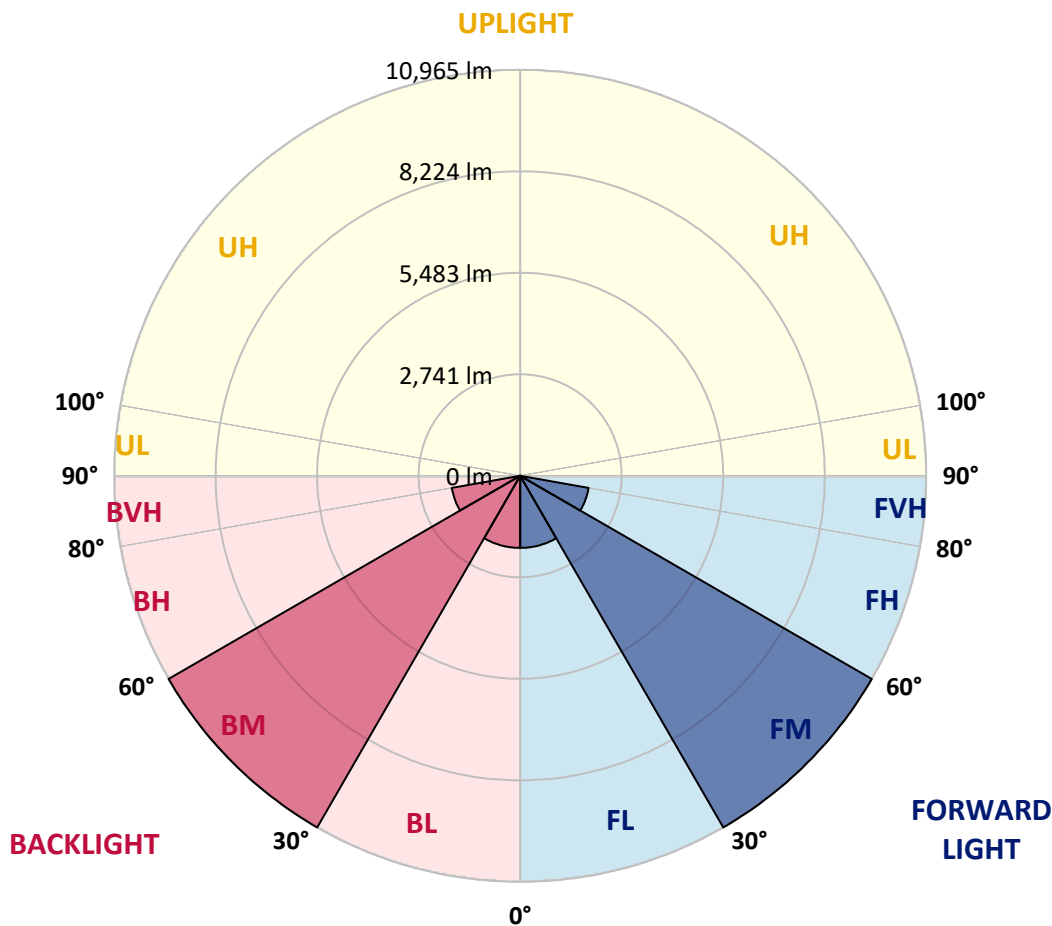
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1947.1	6.6			
FM (30°-60°)	10965.0	37.0			
FH (60°-80°)	1876.4	6.3			G2/5000
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	1947.1	6.6	B3/2500		
BM (30°-60°)	10965.0	37.0	B5		
BH (60°-80°)	1876.4	6.3	B3/2500		G2/5000
BVH (80°-90°)	17.9	0.1			G1/100
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°	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3	4593.3
2.5°	4580.9	4605.6	4574.8	4562.4	4556.2	4556.2	4537.7	4537.7	4531.5	4537.7	4513.0
5°	4506.9	4531.5	4531.5	4525.4	4488.3	4482.2	4463.6	4451.3	4457.5	4432.8	4451.3
7.5°	4432.8	4451.3	4426.6	4420.4	4408.1	4383.4	4377.2	4321.6	4327.8	4327.8	4340.2
10°	4420.4	4414.2	4377.2	4346.3	4309.3	4303.1	4284.6	4272.3	4272.3	4266.1	4284.6
12.5°	4420.4	4389.6	4383.4	4315.5	4253.7	4278.4	4229.0	4198.2	4241.4	4253.7	4278.4
15°	4414.2	4445.1	4340.2	4309.3	4266.1	4272.3	4229.0	4198.2	4222.9	4235.2	4253.7
17.5°	4451.3	4432.8	4401.9	4340.2	4321.6	4296.9	4241.4	4216.7	4216.7	4247.6	4253.7
20°	4550.1	4500.7	4438.9	4408.1	4426.6	4395.7	4327.8	4235.2	4259.9	4284.6	4303.1
22.5°	4642.7	4605.6	4562.4	4543.9	4648.9	4599.5	4482.2	4377.2	4340.2	4383.4	4414.2
25°	4821.7	4821.7	4741.5	4766.2	4883.5	4889.6	4753.8	4568.6	4543.9	4562.4	4574.8
27.5°	5186.0	5204.5	5136.6	5161.3	5210.7	5253.9	5136.6	4982.2	4926.7	4920.5	4939.0
30°	5581.1	5618.1	5612.0	5716.9	5858.9	5883.6	5710.7	5457.6	5290.9	5260.1	5284.7
32.5°	6099.7	6118.2	6105.9	6229.3	6612.1	6791.1	6340.5	5982.4	5760.1	5815.7	5760.1
35°	7075.1	7056.6	6920.8	6945.5	7260.4	7390.0	6957.8	6729.4	6624.5	6735.6	6710.9
37.5°	7914.8	7846.9	7735.7	7896.3	8223.5	8340.8	7890.1	7488.8	7297.4	7482.6	7562.9
40°	8624.8	8451.9	8297.5	8458.1	8896.4	9056.9	8396.3	8069.1	7995.0	8130.9	8303.7
42.5°	9223.6	9112.5	8908.8	8921.1	9211.3	9285.4	8754.4	8563.0	8488.9	8705.0	8791.5
45°	9649.6	9544.7	9353.3	9340.9	9563.2	9513.8	9038.4	8908.8	8952.0	9094.0	9137.2
47.5°	9865.7	9921.3	9810.1	9841.0	9958.3	9841.0	9464.4	9464.4	9365.6	9452.0	9408.8
50°	10489.2	10316.4	10458.4	10458.4	10581.8	10594.2	10217.6	10081.8	9816.3	9668.1	9668.1
52.5°	11217.7	11230.1	11285.7	11489.4	11699.3	11878.3	11341.2	10760.9	10316.4	10125.0	10100.3
55°	11816.6	11940.1	12162.3	12545.1	13150.1	13397.1	12471.0	11433.8	10890.5	10594.2	10532.5
56°	12143.8	12026.5	12409.3	12934.1	13724.3	14045.3	12656.2	11569.6	10970.8	10637.4	10631.2
57.5°	11828.9	11958.6	12224.1	13051.4	14020.6	14440.5	12724.1	11507.9	10649.8	10310.2	10341.1
60°	9340.9	9464.4	9822.5	10748.5	12267.3	12594.5	10767.1	9489.1	8723.5	8235.8	8242.0
62.5°	5284.7	5377.4	5655.2	6513.3	7457.9	7772.8	6710.9	5858.9	5328.0	5056.3	4969.9
65°	1944.7	1907.7	1950.9	2389.2	2969.6	3235.1	2790.5	2358.4	2080.6	1981.8	1944.7
67.5°	728.5	672.9	629.7	672.9	845.8	895.2	821.1	685.3	642.1	660.6	672.9
70°	450.7	426.0	339.6	321.0	314.9	308.7	327.2	345.7	395.1	463.0	475.4
72.5°	314.9	296.3	240.8	228.4	216.1	209.9	240.8	265.5	308.7	358.1	364.3
75°	123.5	129.6	123.5	135.8	142.0	148.2	172.9	191.4	209.9	209.9	203.7
77.5°	24.7	24.7	37.0	49.4	61.7	80.3	117.3	135.8	142.0	135.8	117.3
80°	0.0	0.0	12.3	24.7	49.4	67.9	105.0	117.3	129.6	117.3	92.6
82.5°	0.0	0.0	12.3	30.9	49.4	61.7	98.8	123.5	142.0	129.6	98.8
85°	0.0	0.0	12.3	24.7	37.0	43.2	43.2	30.9	30.9	18.5	12.3
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)