

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: P533605

Luminaire Tested: **GALN-SA9A-740-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-740-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28480 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

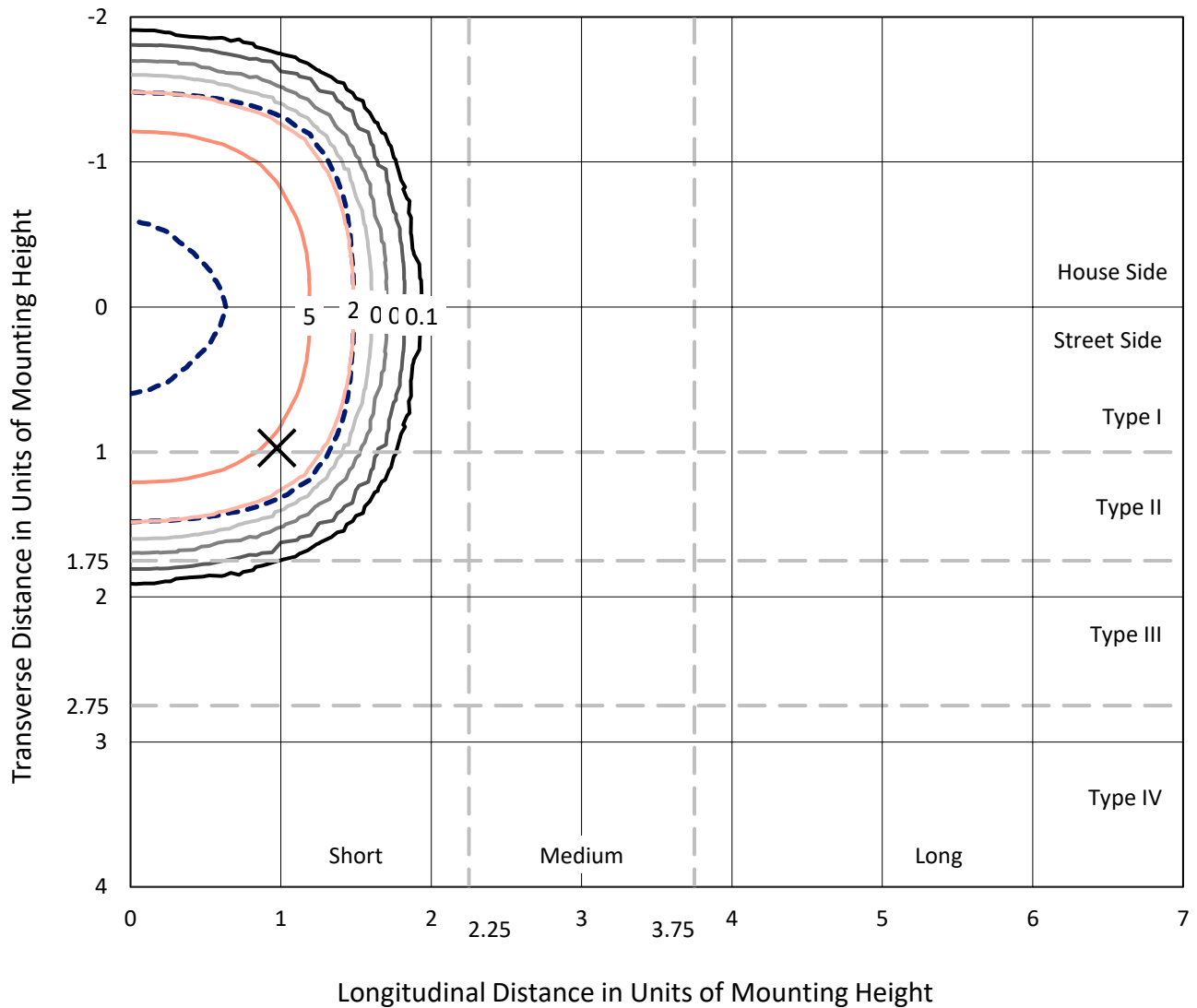
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

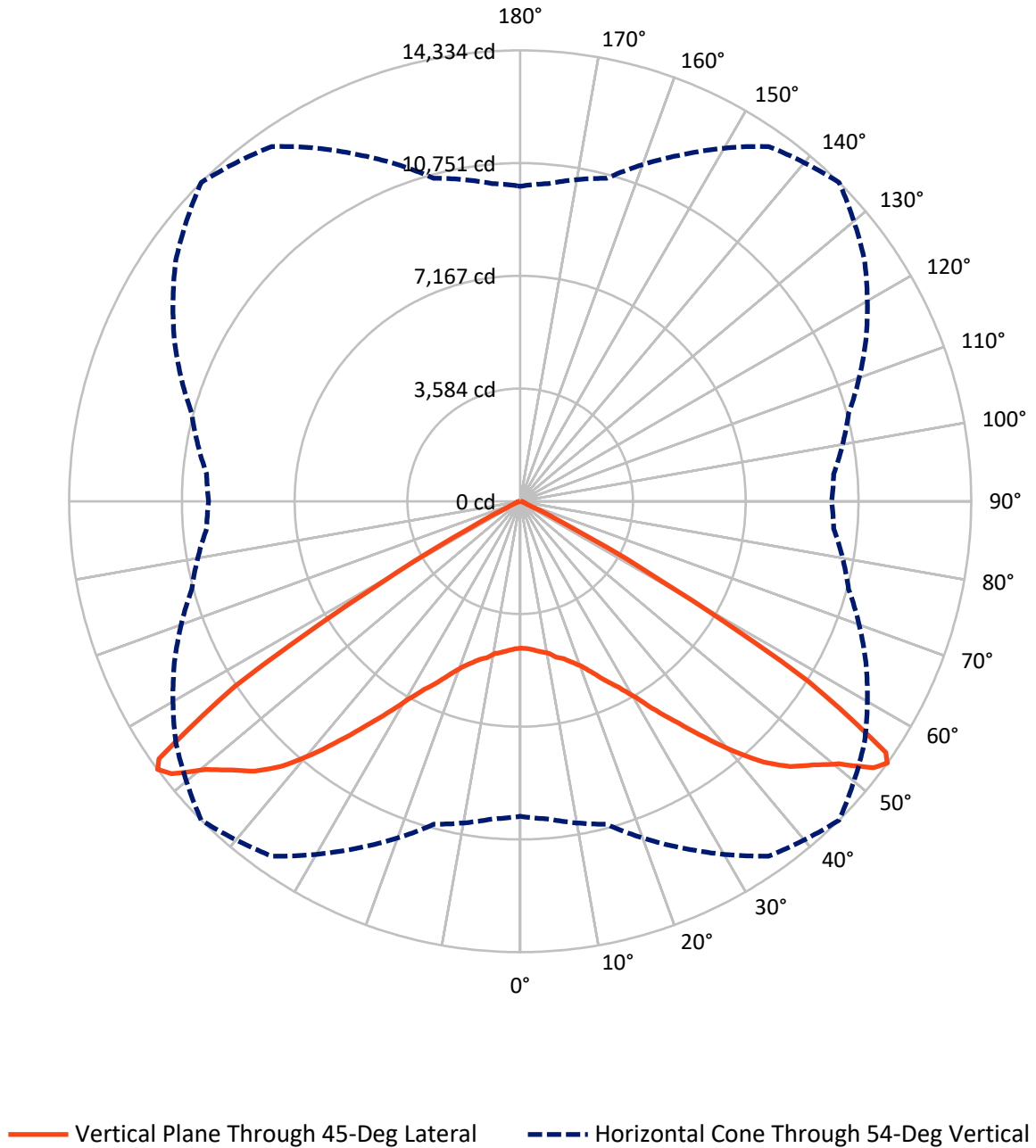
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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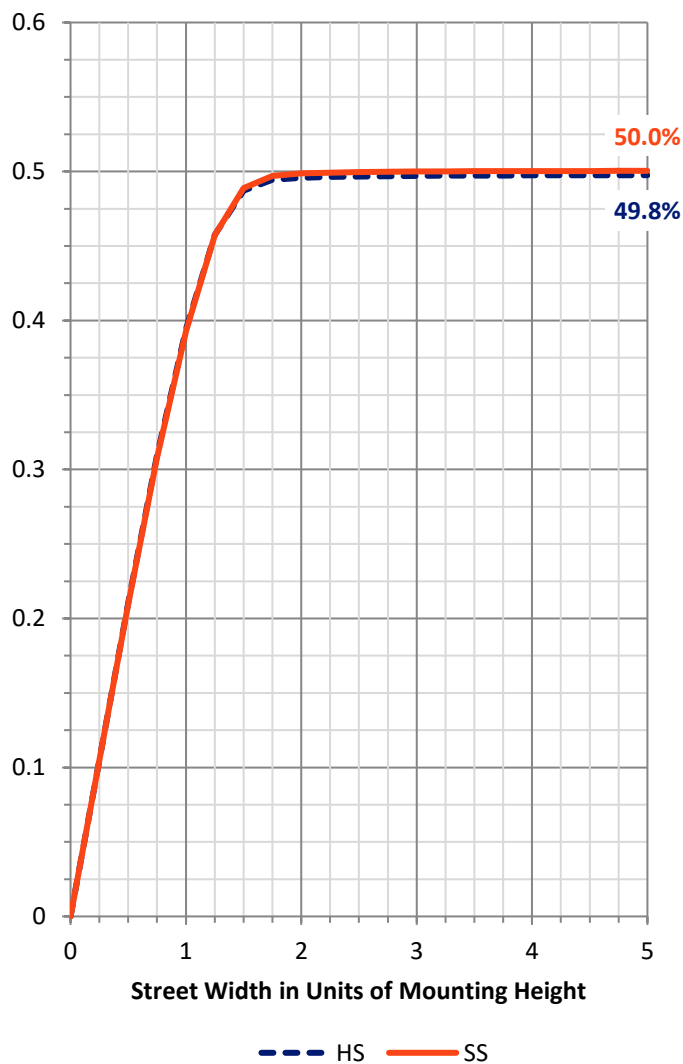
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14240.0	0.0	14240.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14240.0	0.0	14240.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28480.0	0.0	28480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.1	1.6
10°-20°	1480.2	5.2
20°-30°	2901.0	10.2
30°-40°	5216.6	18.3
40°-50°	8929.9	31.4
50°-60°	8640.5	30.3
60°-70°	739.7	2.6
70°-80°	87.7	0.3
80°-90°	27.5	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°	28480.0	100.0
0°-180°	28480.0	100.0

Coefficient of Utilization

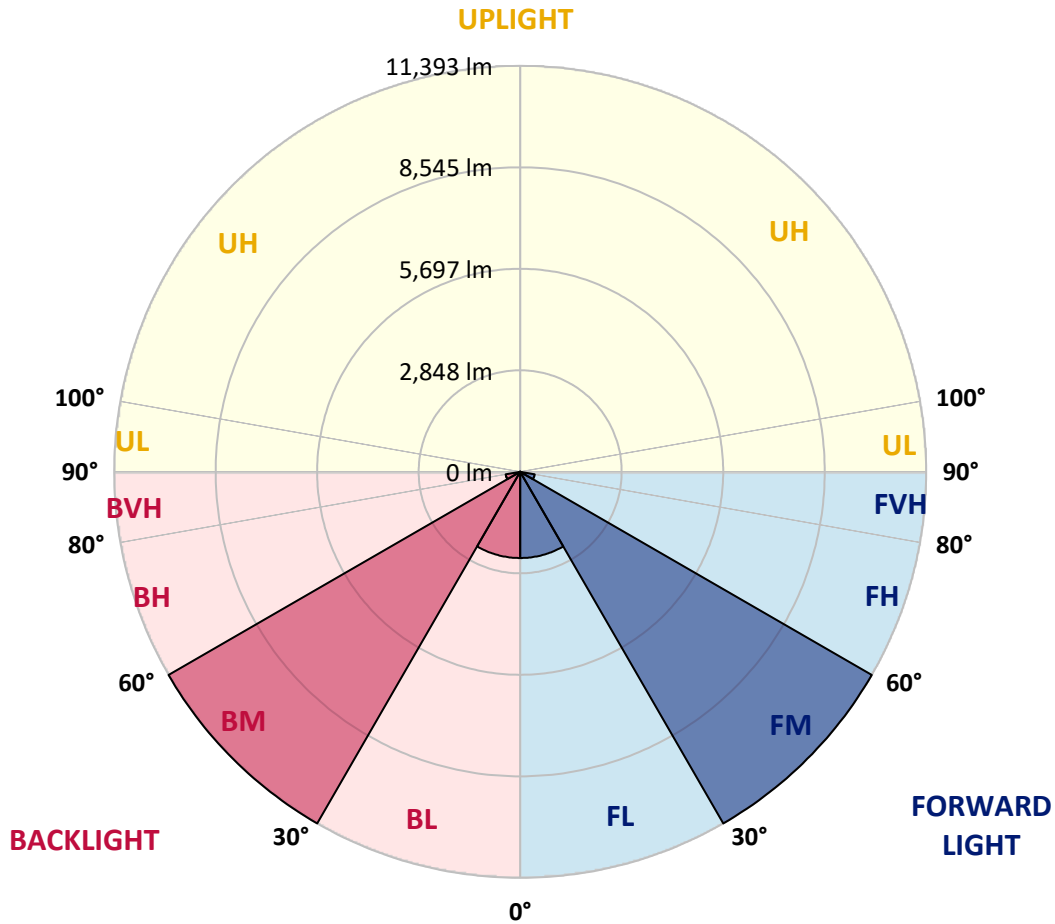


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2419.1	8.5			
FM (30°-60°)	11393.5	40.0			
FH (60°-80°)	413.7	1.5			G0/660
FVH (80°-90°)	13.7	0.0			G1/100
BL (0°-30°)	2419.1	8.5	B3/2500		
BM (30°-60°)	11393.5	40.0	B5		
BH (60°-80°)	413.7	1.5	B1/500		G0/660
BVH (80°-90°)	13.7	0.0			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°	4669.8	4669.8	4669.8	4669.8	4669.8	4669.8	4669.8	4669.8	4669.8	4669.8	4669.8
2.5°	4692.4	4719.5	4701.4	4715.0	4715.0	4692.4	4705.9	4651.8	4687.9	4660.8	4665.3
5°	4764.6	4760.1	4760.1	4764.6	4746.5	4755.6	4737.5	4719.5	4705.9	4687.9	4742.0
7.5°	4854.8	4854.8	4823.2	4832.3	4823.2	4836.8	4800.7	4764.6	4751.0	4737.5	4728.5
10°	4940.5	4931.5	4918.0	4958.6	4927.0	4909.0	4890.9	4868.4	4818.7	4800.7	4782.6
12.5°	5066.9	5062.4	5044.3	5084.9	5066.9	5084.9	5017.3	4958.6	4949.6	4890.9	4922.5
15°	5215.8	5256.4	5224.8	5224.8	5215.8	5193.2	5166.1	5139.1	5057.9	5035.3	5039.8
17.5°	5409.8	5396.3	5400.8	5400.8	5445.9	5387.2	5333.1	5265.4	5224.8	5211.3	5166.1
20°	5594.8	5612.8	5608.3	5639.9	5667.0	5603.8	5545.1	5536.1	5423.3	5441.4	5378.2
22.5°	5919.6	5906.1	5928.7	5951.2	5933.2	5924.1	5870.0	5802.3	5703.1	5657.9	5648.9
25°	6262.5	6240.0	6199.4	6253.5	6280.6	6321.2	6217.4	6181.3	6027.9	5960.2	5964.8
27.5°	6555.8	6587.4	6632.5	6655.1	6722.8	6709.2	6637.0	6519.7	6402.4	6325.7	6276.1
30°	6957.4	6975.4	7052.1	7083.7	7201.0	7232.6	7119.8	6984.4	6776.9	6677.6	6619.0
32.5°	7327.4	7453.7	7449.2	7607.1	7796.6	7927.4	7724.4	7516.9	7309.3	7192.0	7088.2
35°	7927.4	7904.9	8035.7	8202.7	8509.5	8658.4	8437.3	8198.2	7882.3	7692.8	7611.6
37.5°	8486.9	8495.9	8671.9	8938.1	9290.0	9520.1	9326.1	8933.6	8608.7	8365.1	8252.3
40°	9299.1	9317.1	9497.6	9799.9	10196.9	10445.1	10219.5	9822.4	9389.3	9199.8	9199.8
42.5°	10251.1	10327.8	10445.1	10706.8	11063.2	11338.4	11135.4	10824.1	10386.4	10142.8	10178.9
45°	11230.2	11266.3	11343.0	11731.0	11897.9	12033.3	11843.8	11699.4	11406.1	11108.3	11058.7
47.5°	12146.1	12159.6	12385.2	12507.0	12637.9	12525.1	12646.9	12457.4	12128.0	11839.3	11780.6
50°	12552.1	12529.6	12849.9	13219.9	13319.2	13120.7	13016.9	12890.5	12389.7	12042.3	11888.9
52.5°	11370.0	11500.9	12096.4	13125.2	13901.2	14068.2	13463.6	12881.5	11947.6	11270.8	11167.0
54°	10016.5	10138.3	10630.1	12155.1	13770.4	14334.4	13359.8	12123.5	10806.0	10002.9	9899.1
55°	8676.4	8541.1	9434.4	10991.0	13156.7	14099.7	12949.2	11144.4	9637.5	8902.0	8757.6
57.5°	4696.9	4719.5	5473.0	6943.8	9244.9	10810.5	9547.2	7539.4	5694.0	4868.4	4796.2
60°	1488.9	1525.0	1854.4	2806.4	4417.2	5274.4	4520.9	3027.5	2093.5	1678.4	1610.8
62.5°	464.7	482.8	527.9	785.1	1209.2	1728.1	1353.6	812.1	604.6	555.0	564.0
65°	284.3	284.3	288.8	306.8	361.0	419.6	406.1	356.4	342.9	333.9	329.4
67.5°	185.0	180.5	189.5	203.0	212.1	216.6	230.1	243.6	239.1	230.1	230.1
70°	112.8	108.3	117.3	135.4	139.9	148.9	162.4	180.5	176.0	166.9	171.5
72.5°	63.2	63.2	67.7	81.2	94.8	103.8	117.3	130.8	135.4	130.8	130.8
75°	22.6	27.1	36.1	49.6	58.7	72.2	85.7	99.3	112.8	103.8	99.3
77.5°	9.0	9.0	18.0	31.6	45.1	58.7	81.2	94.8	103.8	94.8	85.7
80°	4.5	4.5	13.5	27.1	40.6	54.1	67.7	81.2	85.7	76.7	67.7
82.5°	4.5	4.5	13.5	27.1	40.6	49.6	72.2	81.2	90.2	81.2	67.7
85°	0.0	4.5	13.5	27.1	36.1	40.6	40.6	27.1	22.6	13.5	13.5
87.5°	0.0	0.0	4.5	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)