

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: P533607

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533607
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-SA9A-740-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 21625 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

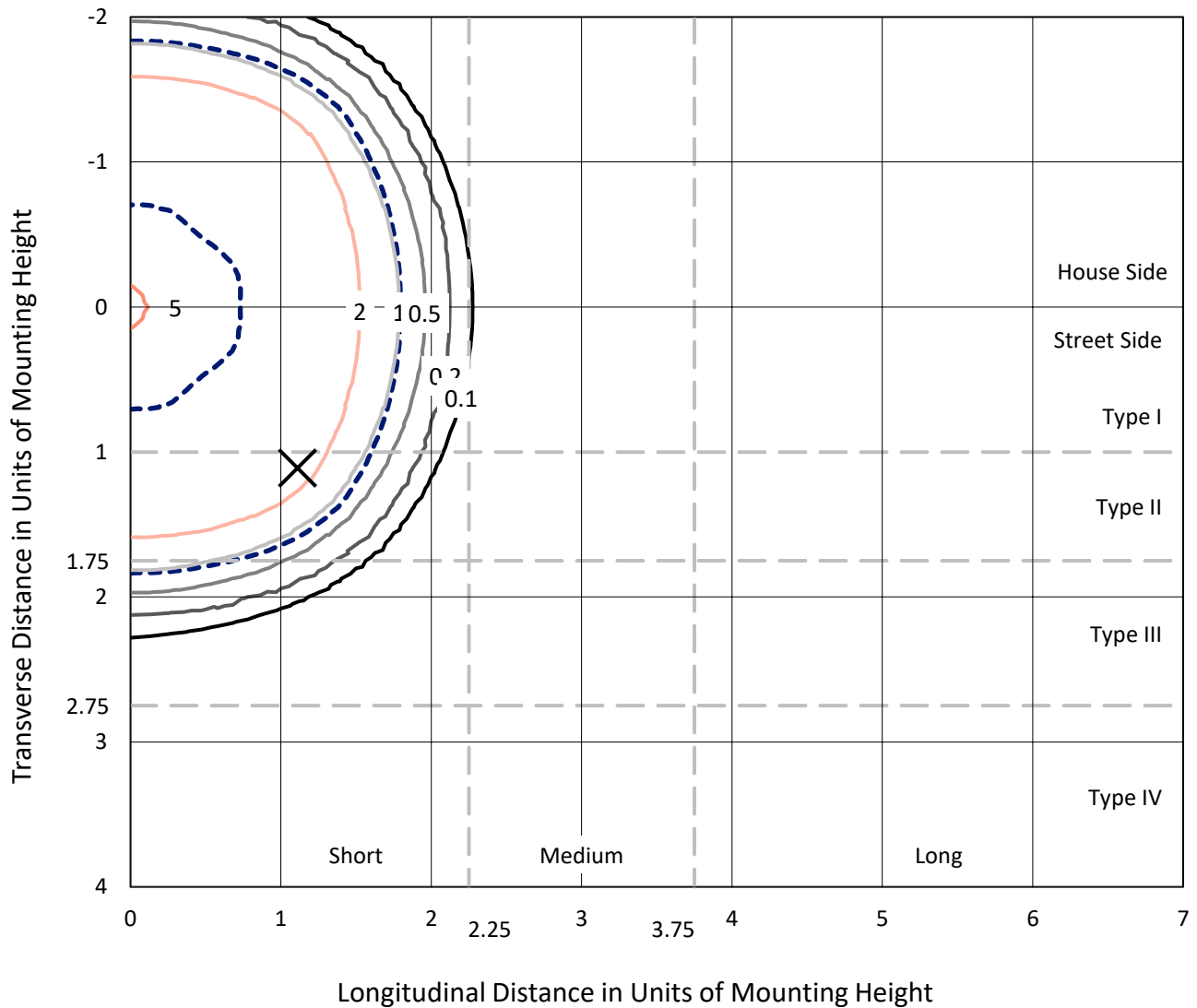
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

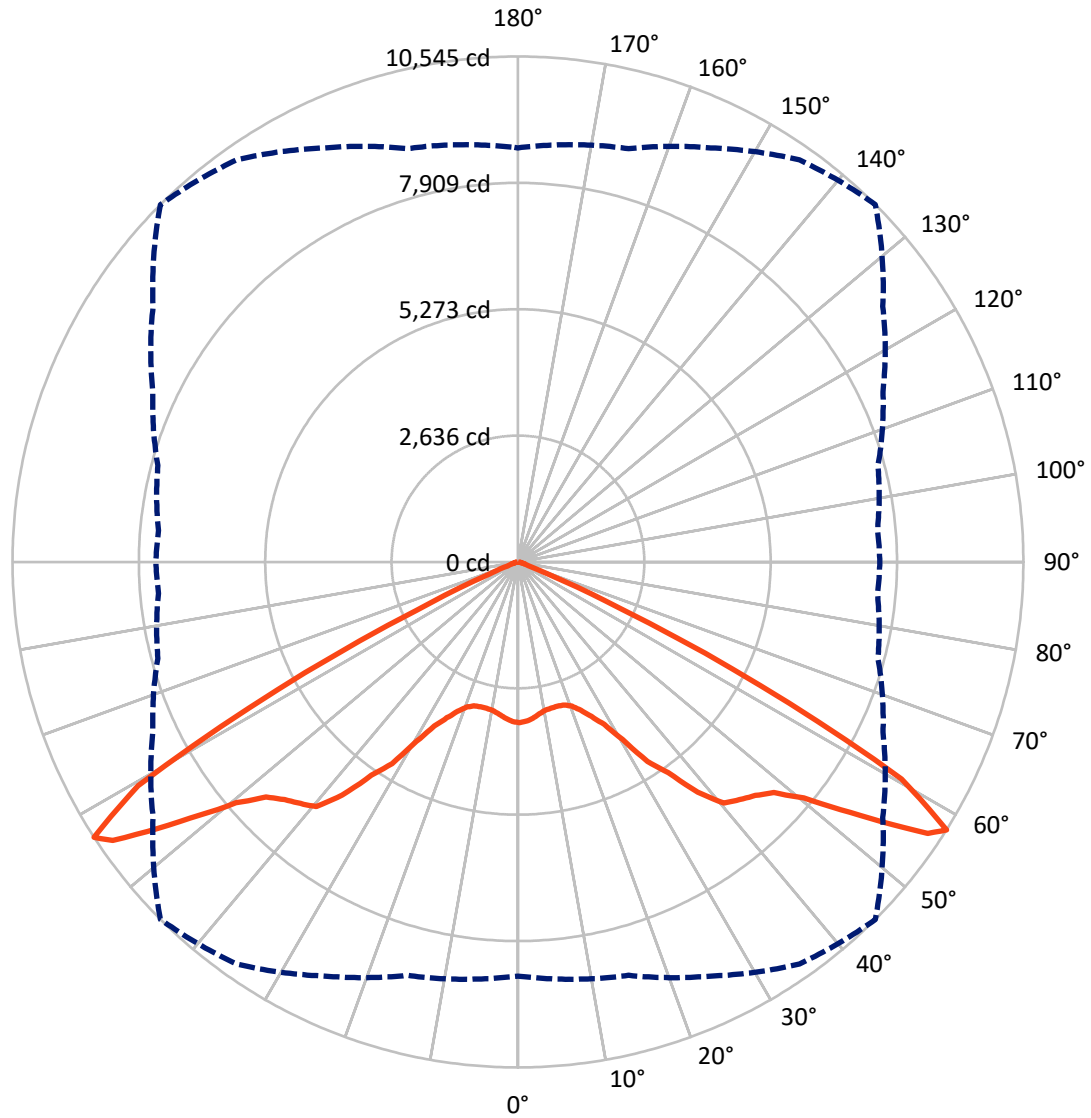
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	10812.5	0.0	10812.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10812.5	0.0	10812.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21625.0	0.0	21625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	1.4
10°-20°	891.0	4.1
20°-30°	1644.6	7.6
30°-40°	3234.3	15.0
40°-50°	5267.7	24.4
50°-60°	7512.5	34.7
60°-70°	2601.0	12.0
70°-80°	139.5	0.6
80°-90°	26.2	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°	21625.0	100.0
0°-180°	21625.0	100.0

Coefficient of Utilization

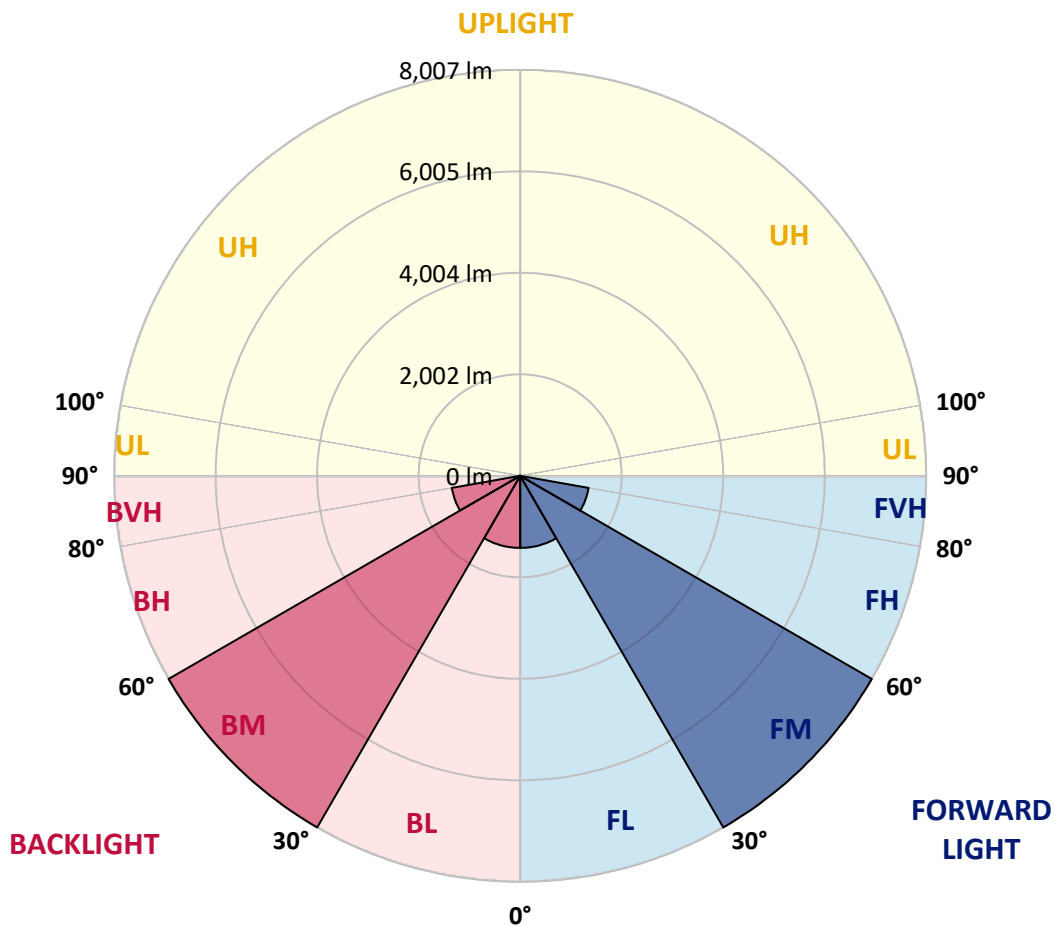


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1421.9	6.6			
FM (30°-60°)	8007.2	37.0			
FH (60°-80°)	1370.3	6.3			G1/1800
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	1421.9	6.6	B3/2500		
BM (30°-60°)	8007.2	37.0	B4/8500		
BH (60°-80°)	1370.3	6.3	B3/2500		G1/1800
BVH (80°-90°)	13.1	0.1			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°	3354.3	3354.3	3354.3	3354.3	3354.3	3354.3	3354.3	3354.3	3354.3	3354.3	3354.3
2.5°	3345.2	3363.3	3340.7	3331.7	3327.2	3327.2	3313.7	3313.7	3309.2	3313.7	3295.7
5°	3291.1	3309.2	3309.2	3304.7	3277.6	3273.1	3259.6	3250.6	3255.1	3237.0	3250.6
7.5°	3237.0	3250.6	3232.5	3228.0	3219.0	3201.0	3196.5	3155.9	3160.4	3160.4	3169.4
10°	3228.0	3223.5	3196.5	3173.9	3146.9	3142.4	3128.8	3119.8	3119.8	3115.3	3128.8
12.5°	3228.0	3205.5	3201.0	3151.4	3106.3	3124.3	3088.3	3065.7	3097.3	3106.3	3124.3
15°	3223.5	3246.1	3169.4	3146.9	3115.3	3119.8	3088.3	3065.7	3083.8	3092.8	3106.3
17.5°	3250.6	3237.0	3214.5	3169.4	3155.9	3137.9	3097.3	3079.3	3079.3	3101.8	3106.3
20°	3322.7	3286.6	3241.6	3219.0	3232.5	3210.0	3160.4	3092.8	3110.8	3128.8	3142.4
22.5°	3390.3	3363.3	3331.7	3318.2	3394.8	3358.8	3273.1	3196.5	3169.4	3201.0	3223.5
25°	3521.1	3521.1	3462.5	3480.5	3566.2	3570.7	3471.5	3336.2	3318.2	3331.7	3340.7
27.5°	3787.1	3800.6	3751.0	3769.0	3805.1	3836.7	3751.0	3638.3	3597.7	3593.2	3606.7
30°	4075.6	4102.7	4098.2	4174.8	4278.5	4296.5	4170.3	3985.4	3863.7	3841.2	3859.2
32.5°	4454.3	4467.8	4458.8	4549.0	4828.5	4959.3	4630.1	4368.7	4206.4	4246.9	4206.4
35°	5166.6	5153.1	5053.9	5072.0	5301.9	5396.6	5081.0	4914.2	4837.5	4918.7	4900.7
37.5°	5779.8	5730.2	5649.0	5766.3	6005.2	6090.9	5761.8	5468.7	5329.0	5464.2	5522.8
40°	6298.3	6172.0	6059.3	6176.5	6496.6	6613.9	6131.5	5892.5	5838.4	5937.6	6063.8
42.5°	6735.6	6654.4	6505.6	6514.7	6726.6	6780.7	6392.9	6253.2	6199.1	6356.9	6420.0
45°	7046.7	6970.0	6830.3	6821.2	6983.5	6947.5	6600.3	6505.6	6537.2	6640.9	6672.5
47.5°	7204.5	7245.0	7163.9	7186.4	7272.1	7186.4	6911.4	6911.4	6839.3	6902.4	6870.8
50°	7659.8	7533.6	7637.3	7637.3	7727.4	7736.4	7461.4	7362.2	7168.4	7060.2	7060.2
52.5°	8191.8	8200.8	8241.4	8390.2	8543.5	8674.2	8282.0	7858.2	7533.6	7393.8	7375.8
55°	8629.1	8719.3	8881.6	9161.1	9602.9	9783.3	9107.0	8349.6	7952.9	7736.4	7691.4
56°	8868.1	8782.4	9061.9	9445.1	10022.2	10256.7	9242.3	8448.8	8011.5	7768.0	7763.5
57.5°	8638.1	8732.8	8926.7	9530.8	10238.6	10545.2	9291.9	8403.7	7777.0	7529.1	7551.6
60°	6821.2	6911.4	7172.9	7849.2	8958.2	9197.2	7862.7	6929.4	6370.4	6014.2	6018.7
62.5°	3859.2	3926.8	4129.7	4756.4	5446.2	5676.1	4900.7	4278.5	3890.8	3692.4	3629.3
65°	1420.2	1393.1	1424.7	1744.8	2168.5	2362.4	2037.8	1722.2	1519.3	1447.2	1420.2
67.5°	532.0	491.4	459.9	491.4	617.7	653.7	599.6	500.4	468.9	482.4	491.4
70°	329.1	311.1	248.0	234.4	229.9	225.4	238.9	252.5	288.5	338.1	347.1
72.5°	229.9	216.4	175.8	166.8	157.8	153.3	175.8	193.9	225.4	261.5	266.0
75°	90.2	94.7	90.2	99.2	103.7	108.2	126.2	139.8	153.3	153.3	148.8
77.5°	18.0	18.0	27.1	36.1	45.1	58.6	85.7	99.2	103.7	99.2	85.7
80°	0.0	0.0	9.0	18.0	36.1	49.6	76.6	85.7	94.7	85.7	67.6
82.5°	0.0	0.0	9.0	22.5	36.1	45.1	72.1	90.2	103.7	94.7	72.1
85°	0.0	0.0	9.0	18.0	27.1	31.6	31.6	22.5	22.5	13.5	9.0
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)