

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: P457615

Luminaire Tested: **GALN-SA9A-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36184 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

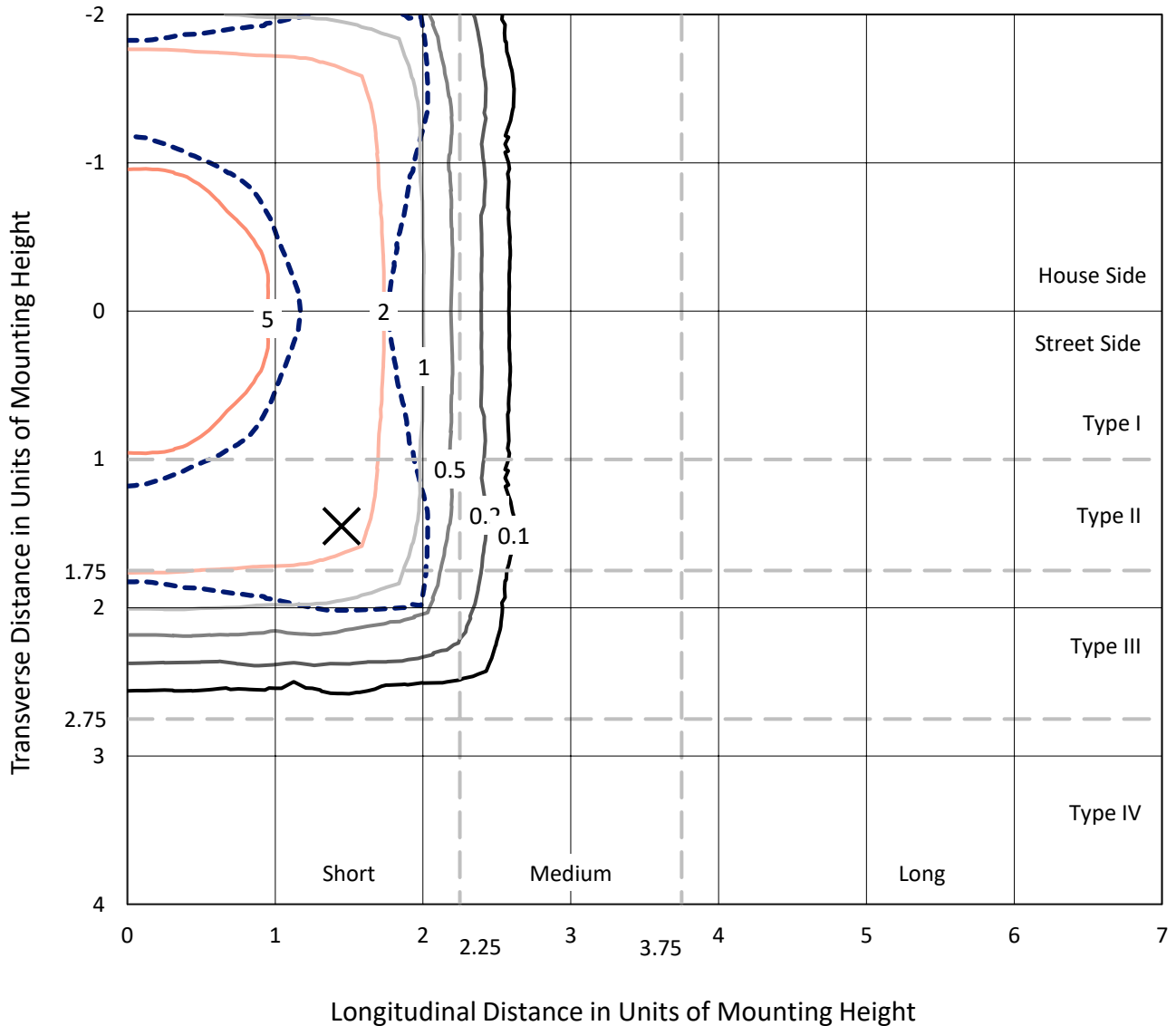
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

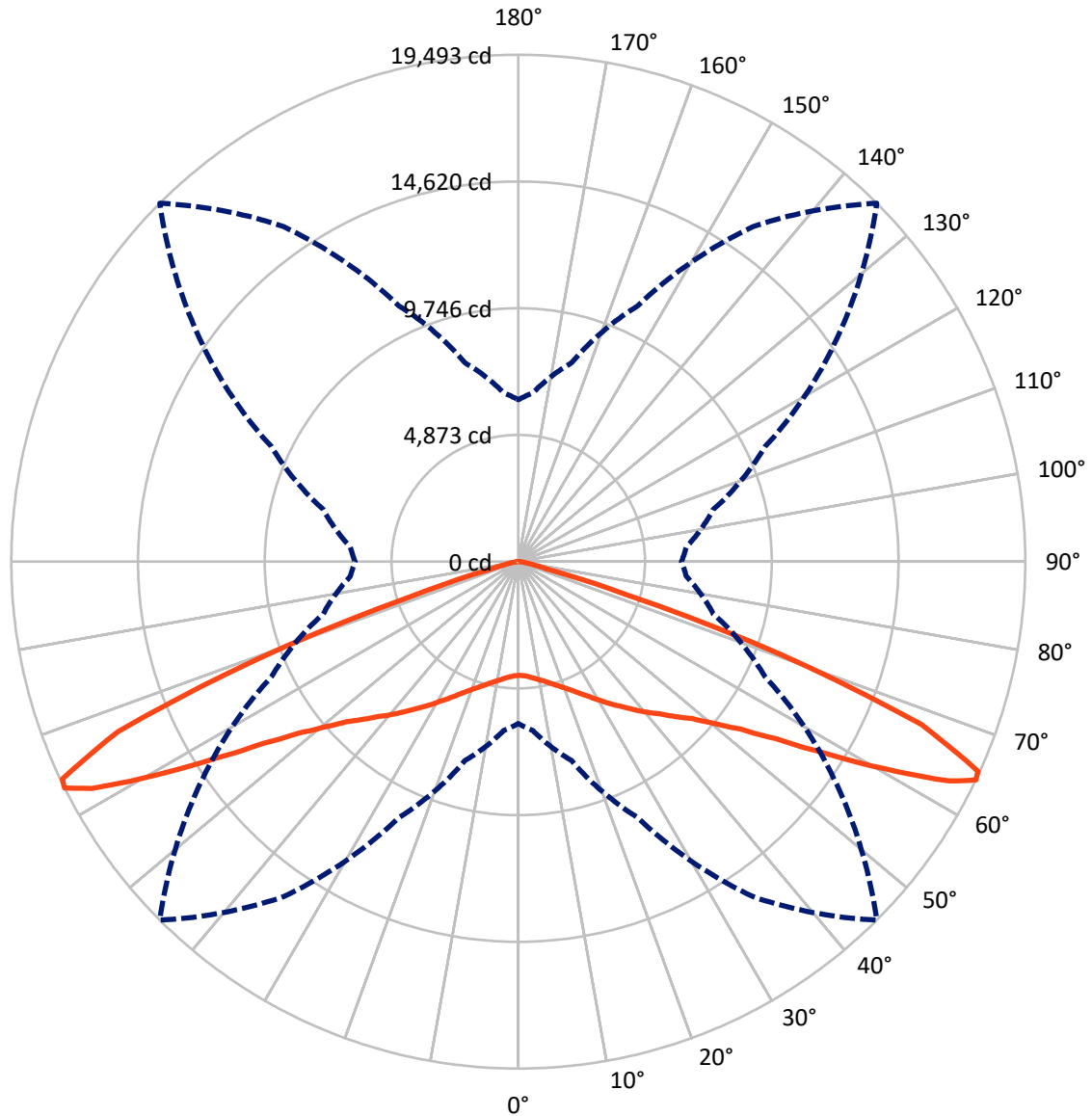
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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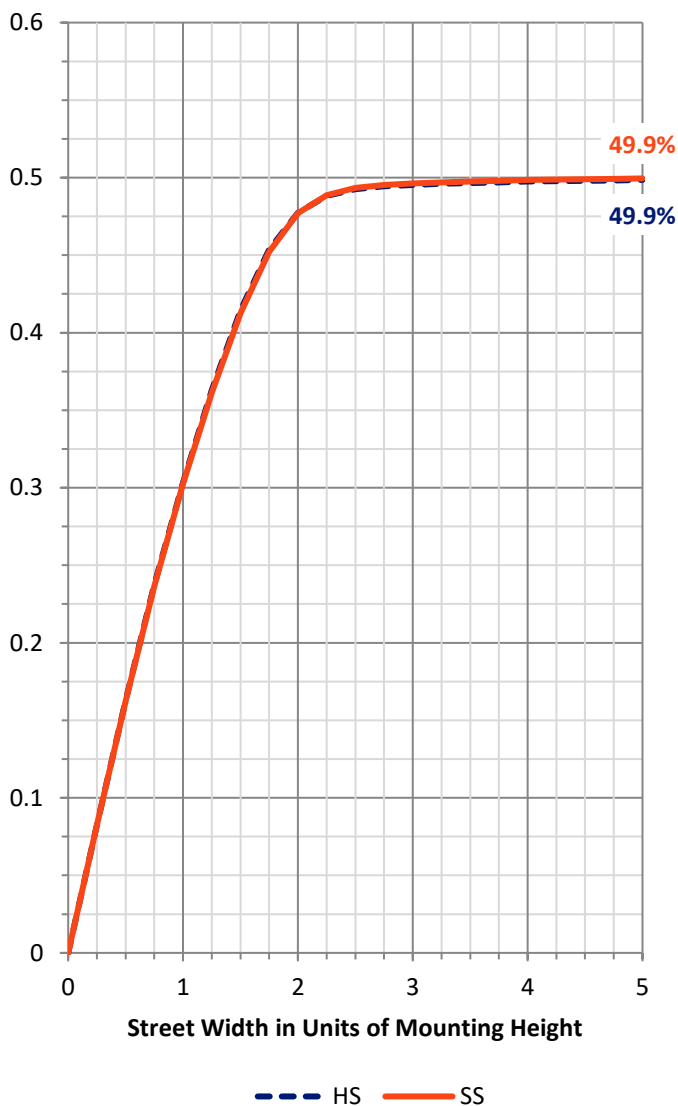
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18092.0	0.0	18092.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18092.0	0.0	18092.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36184.0	0.0	36184.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.7	1.2
10°-20°	1385.9	3.8
20°-30°	2619.0	7.2
30°-40°	4337.4	12.0
40°-50°	6771.4	18.7
50°-60°	10468.4	28.9
60°-70°	9026.7	24.9
70°-80°	1023.0	2.8
80°-90°	122.6	0.3
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°	36184.0	100.0
0°-180°	36184.0	100.0

Coefficient of Utilization



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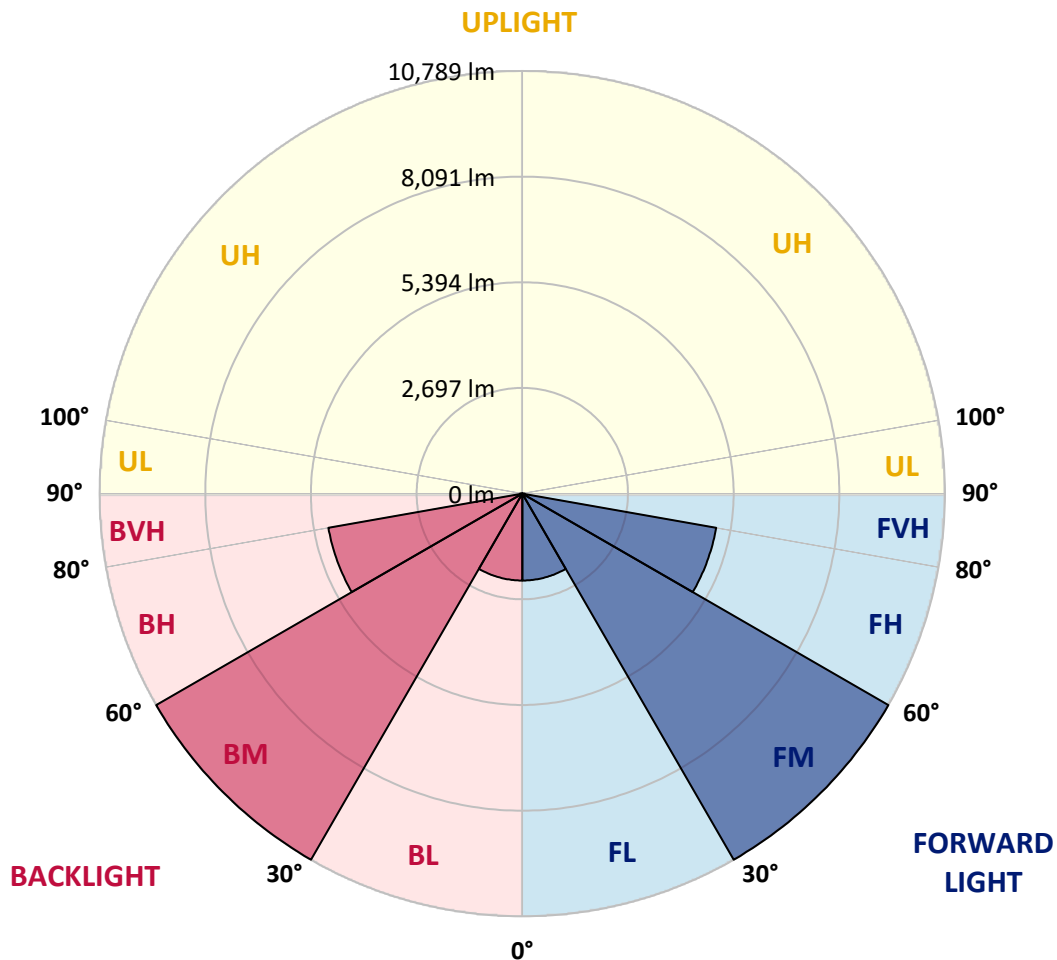
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2217.3	6.1			
FM	(30°-60°)	10788.6	29.8			
FH	(60°-80°)	5024.9	13.9			G3/7500
FVH	(80°-90°)	61.3	0.2			G1/100
BL	(0°-30°)	2217.3	6.1	B3/2500		
BM	(30°-60°)	10788.6	29.8	B5		
BH	(60°-80°)	5024.9	13.9	B5		G3/7500
BVH	(80°-90°)	61.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4
2.5°	4390.7	4400.3	4392.6	4390.7	4388.8	4388.8	4388.8	4390.7	4398.4	4404.1	4400.3
5°	4446.3	4453.9	4450.1	4448.2	4446.3	4448.2	4444.4	4442.4	4448.2	4448.2	4446.3
7.5°	4515.3	4524.8	4521.0	4524.8	4526.8	4528.7	4519.1	4511.4	4509.5	4515.3	4511.4
10°	4609.2	4616.8	4618.8	4620.7	4624.5	4622.6	4611.1	4597.7	4595.8	4593.8	4591.9
12.5°	4714.6	4720.3	4722.2	4729.9	4735.7	4737.6	4724.2	4712.7	4693.5	4697.3	4689.7
15°	4833.4	4844.9	4843.0	4854.5	4869.8	4873.7	4860.2	4841.1	4823.8	4814.2	4808.5
17.5°	4979.1	4986.7	4982.9	4994.4	5013.6	5023.1	5011.6	4986.7	4969.5	4948.4	4936.9
20°	5151.5	5165.0	5168.8	5168.8	5186.0	5195.6	5178.4	5170.7	5143.9	5128.5	5119.0
22.5°	5347.0	5352.8	5364.3	5375.8	5393.0	5389.2	5383.4	5371.9	5347.0	5333.6	5318.3
25°	5567.4	5573.2	5601.9	5626.8	5632.6	5628.8	5621.1	5615.3	5592.3	5561.7	5550.2
27.5°	5824.2	5835.7	5874.1	5897.1	5897.1	5899.0	5883.6	5902.8	5853.0	5816.6	5812.7
30°	6146.2	6153.9	6186.5	6209.4	6197.9	6188.4	6184.5	6203.7	6150.0	6084.9	6069.5
32.5°	6464.3	6491.2	6519.9	6569.7	6529.5	6512.3	6508.4	6521.8	6460.5	6387.7	6366.6
35°	6805.5	6824.6	6878.3	6920.5	6884.1	6843.8	6861.1	6903.2	6830.4	6732.7	6728.8
37.5°	7183.0	7200.3	7269.3	7313.4	7286.5	7217.5	7246.3	7296.1	7223.3	7102.5	7077.6
40°	7575.9	7612.3	7698.6	7744.6	7700.5	7608.5	7662.2	7715.8	7650.7	7510.7	7455.2
42.5°	8016.7	8074.2	8198.8	8221.8	8137.4	8012.9	8106.8	8193.0	8147.0	7986.0	7965.0
45°	8532.2	8566.7	8720.1	8769.9	8653.0	8497.7	8614.7	8771.8	8737.3	8551.4	8511.2
47.5°	9109.1	9141.7	9300.8	9375.5	9227.9	9019.0	9229.8	9434.9	9413.8	9214.5	9195.3
50°	9791.4	9799.0	10019.4	10103.8	9956.2	9776.0	9963.9	10218.8	10134.4	9879.5	9875.7
52.5°	10538.8	10548.4	10826.3	10989.2	10906.8	10703.6	10925.9	11081.2	10866.5	10533.1	10508.1
55°	11186.6	11234.5	11614.0	12047.1	12160.2	12012.6	12079.7	12006.9	11477.9	11010.3	10937.4
57.5°	11451.1	11545.0	12121.8	12930.6	13666.5	13885.0	13367.6	12673.8	11721.3	11060.1	10989.2
60°	10805.2	10906.8	11801.8	13336.9	15215.1	16163.7	14709.1	12786.9	11167.4	10237.9	10126.8
62.5°	8653.0	8681.7	9998.4	12380.6	16117.7	18574.7	15274.5	11822.9	9555.7	8292.7	8248.6
64°	6226.7	6521.8	7917.0	10855.0	15722.9	19492.7	14948.7	10471.7	7761.8	6483.5	6276.5
65°	4657.1	4737.6	6381.9	9270.1	15027.2	19423.7	14316.2	9180.0	6427.9	4961.8	4731.8
67.5°	1759.3	1768.9	2355.4	4620.7	10697.9	16711.8	10925.9	4994.4	2708.0	1958.7	1887.7
70°	730.2	743.6	864.3	1554.3	4597.7	10730.5	5268.4	1801.5	990.8	803.0	791.5
72.5°	534.7	542.4	578.8	689.9	1414.4	4406.0	1732.5	764.7	580.7	519.4	513.6
75°	419.7	423.5	450.4	507.9	659.3	1220.8	720.6	525.1	442.7	398.6	394.8
77.5°	320.1	329.6	348.8	387.1	442.7	578.8	477.2	392.9	341.1	304.7	299.0
80°	220.4	231.9	268.3	283.6	297.1	375.6	325.8	297.1	266.4	222.3	208.9
82.5°	136.1	143.7	180.2	193.6	187.8	210.8	208.9	212.7	189.7	138.0	128.4
85°	70.9	74.7	97.7	101.6	93.9	86.2	107.3	124.6	116.9	78.6	76.7
87.5°	15.3	17.2	21.1	19.2	21.1	21.1	26.8	40.2	42.2	26.8	24.9
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)