

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: P534149

Luminaire Tested: **GALN-SA9C-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28119 lumens
Efficiency: N/A
Efficacy: 58.5 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

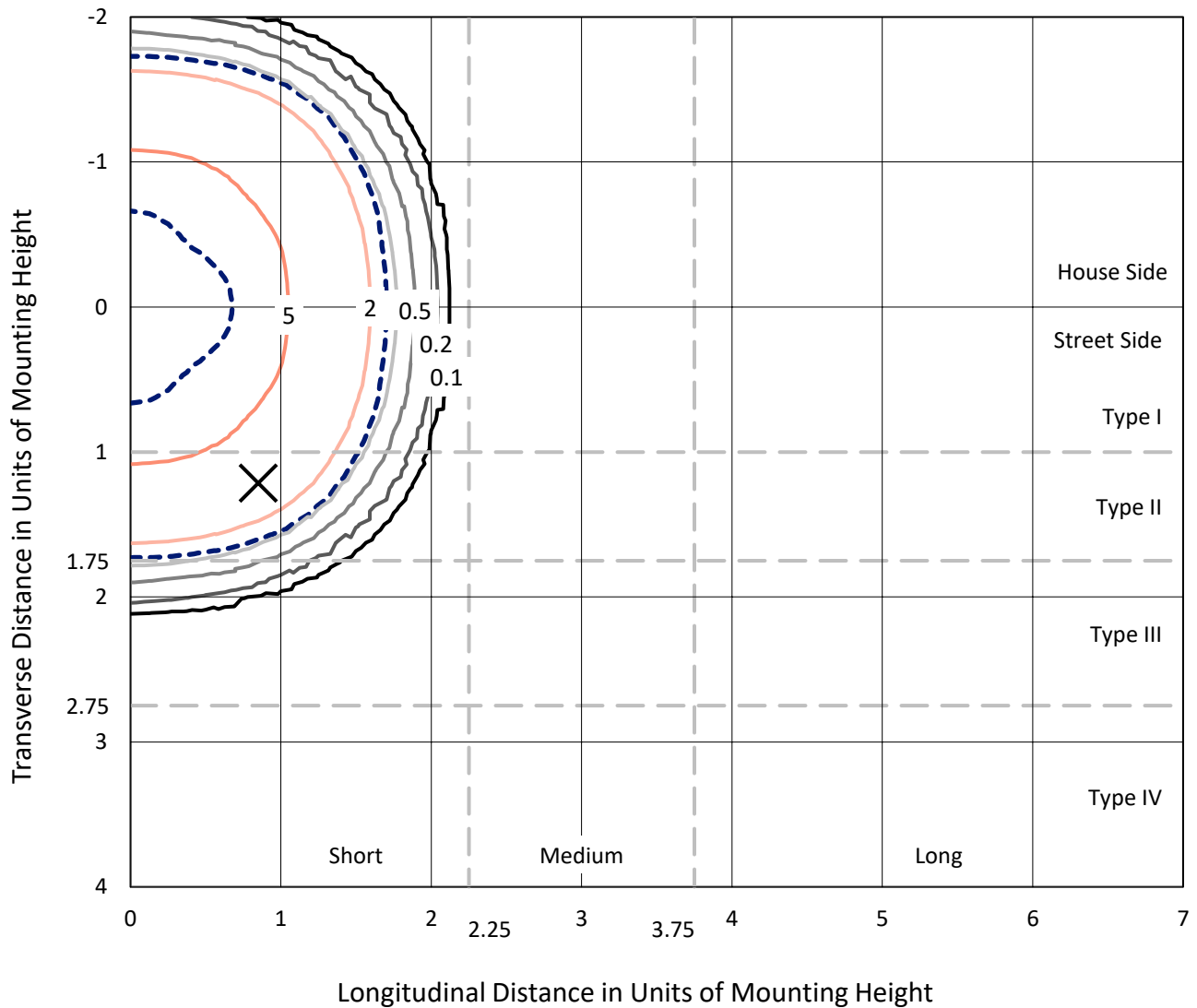
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

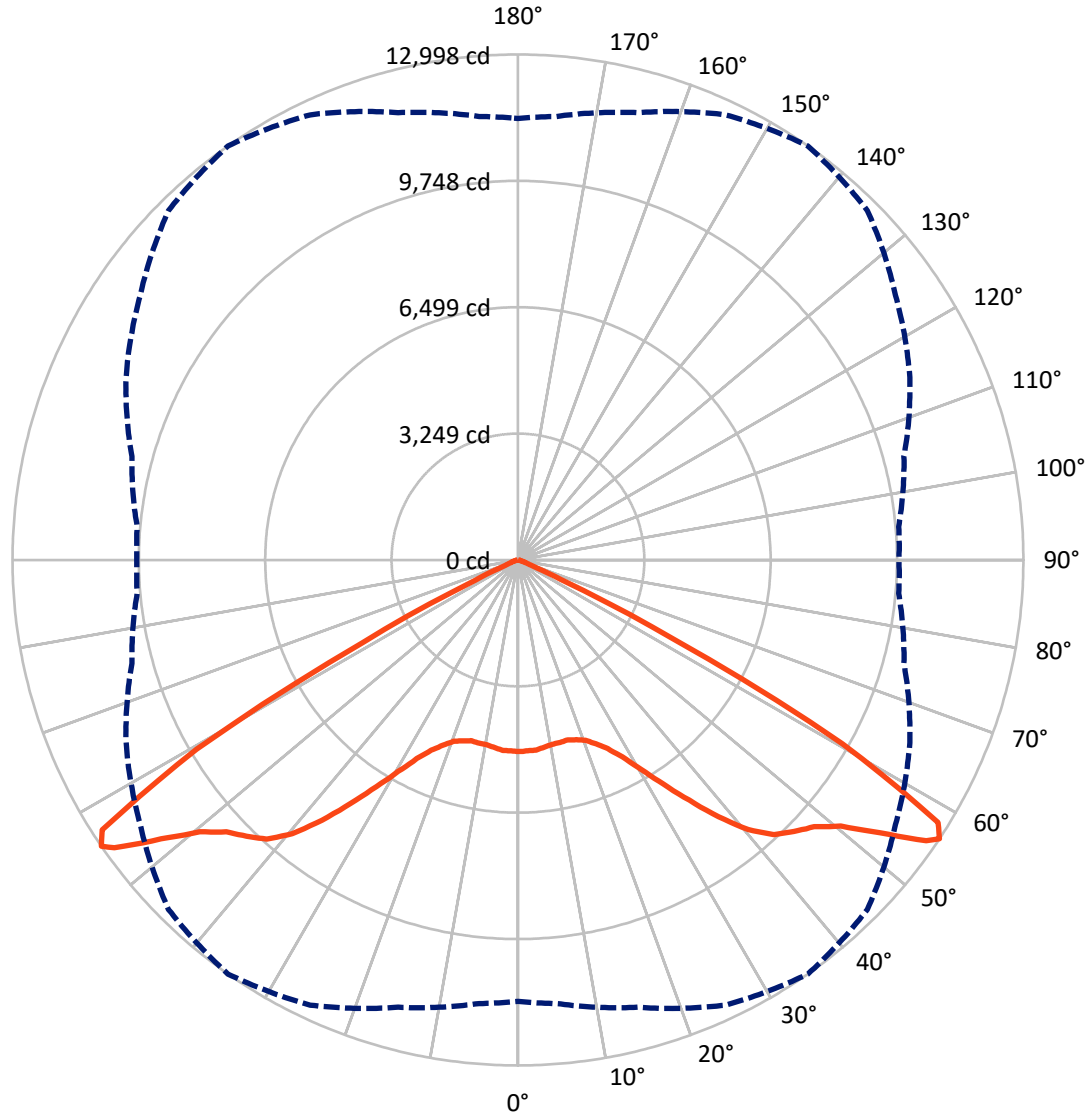
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14059.5	0.0	14059.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14059.5	0.0	14059.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28119.0	0.0	28119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.1	1.6
10°-20°	1351.9	4.8
20°-30°	2448.2	8.7
30°-40°	4539.8	16.1
40°-50°	7451.7	26.5
50°-60°	9600.0	34.1
60°-70°	2115.7	7.5
70°-80°	122.8	0.4
80°-90°	25.8	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°	28119.0	100.0
0°-180°	28119.0	100.0

Coefficient of Utilization

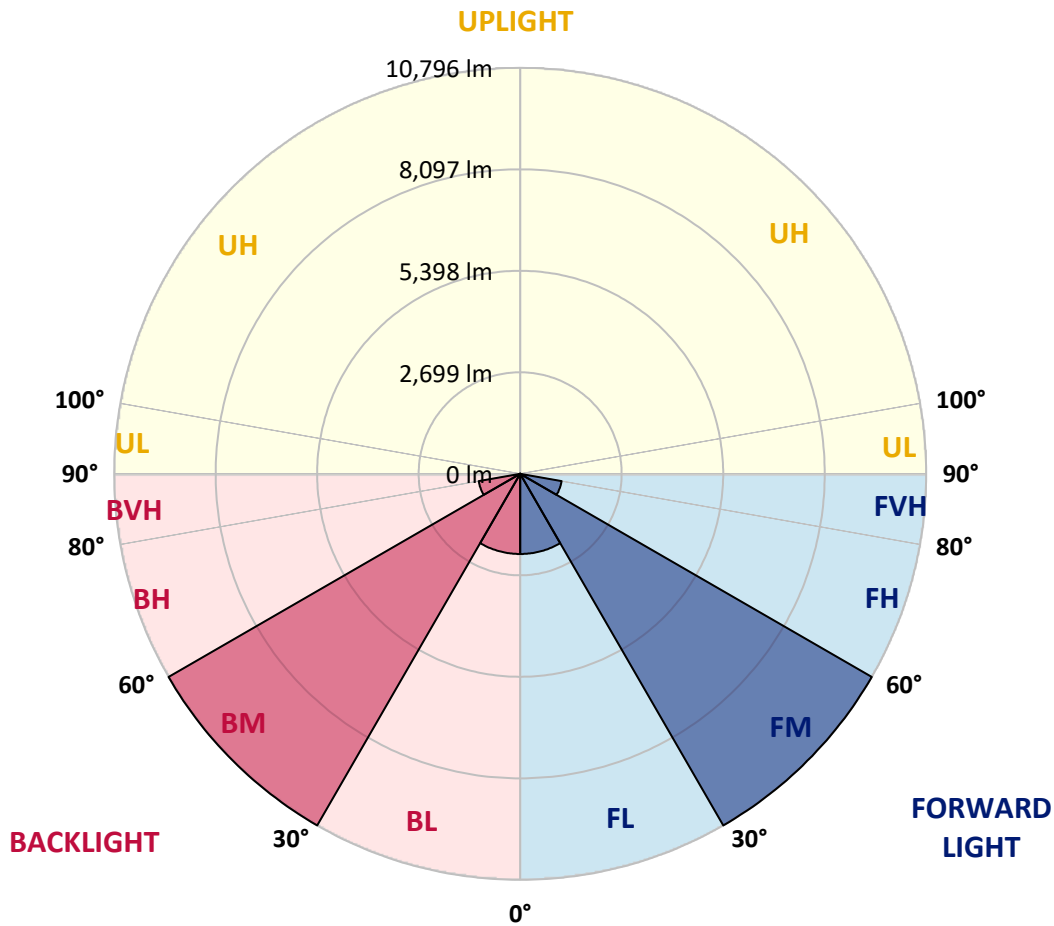


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2131.6	7.6			
FM (30°-60°)	10795.8	38.4			
FH (60°-80°)	1119.2	4.0			G1/1800
FVH (80°-90°)	12.9	0.0			G1/100
BL (0°-30°)	2131.6	7.6	B3/2500		
BM (30°-60°)	10795.8	38.4	B5		
BH (60°-80°)	1119.2	4.0	B3/2500		G1/1800
BVH (80°-90°)	12.9	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°	4927.1	4927.1	4927.1	4927.1	4927.1	4927.1	4927.1	4927.1	4927.1	4927.1	4927.1
2.5°	4937.2	4937.2	4942.3	4947.4	4911.8	4896.5	4901.6	4891.4	4886.3	4901.6	4901.6
5°	4922.0	4922.0	4906.7	4911.8	4911.8	4865.9	4865.9	4876.1	4876.1	4845.5	4835.3
7.5°	4881.2	4871.0	4850.6	4876.1	4860.8	4860.8	4825.1	4799.7	4789.5	4809.9	4789.5
10°	4794.6	4799.7	4820.1	4830.2	4820.1	4850.6	4789.5	4753.8	4718.2	4702.9	4702.9
12.5°	4753.8	4784.4	4753.8	4779.3	4815.0	4789.5	4753.8	4728.3	4677.4	4657.0	4657.0
15°	4748.7	4769.1	4779.3	4815.0	4799.7	4809.9	4738.5	4708.0	4631.5	4595.9	4580.6
17.5°	4743.6	4769.1	4784.4	4850.6	4860.8	4865.9	4809.9	4718.2	4651.9	4616.2	4580.6
20°	4799.7	4809.9	4840.4	4906.7	4947.4	5018.8	4916.9	4820.1	4677.4	4636.6	4621.3
22.5°	4871.0	4922.0	4952.5	5023.9	5130.9	5192.0	5059.5	4937.2	4789.5	4738.5	4677.4
25°	5100.3	5090.1	5141.1	5288.8	5375.4	5421.3	5314.3	5136.0	4942.3	4881.2	4891.4
27.5°	5385.6	5395.8	5441.7	5604.7	5732.1	5803.4	5676.0	5441.7	5253.1	5151.2	5141.1
30°	5757.6	5747.4	5798.3	6017.4	6246.7	6353.7	6129.5	5854.4	5671.0	5538.5	5569.0
32.5°	6149.9	6155.0	6297.7	6496.4	6868.3	7077.2	6715.5	6379.2	6104.0	6012.3	5966.5
35°	6730.8	6756.2	6868.3	7174.0	7586.7	7856.8	7459.4	7056.8	6740.9	6572.8	6593.2
37.5°	7449.2	7423.7	7612.2	7943.4	8376.5	8575.2	8238.9	7780.4	7459.4	7347.3	7418.6
40°	8213.5	8238.9	8335.7	8636.4	9120.4	9252.9	8753.5	8503.9	8223.6	8167.6	8254.2
42.5°	8977.7	8962.4	9033.8	9303.8	9655.4	9563.7	9268.2	9120.4	8921.7	8809.6	8926.8
45°	9538.2	9512.7	9645.2	9828.6	9956.0	9782.8	9650.3	9599.3	9497.4	9375.2	9482.2
47.5°	10083.4	10063.0	10190.4	10241.3	10251.5	10022.2	10047.7	10139.4	9884.7	9629.9	9752.2
50°	10547.1	10511.4	10669.3	10781.4	10756.0	10389.1	10480.8	10389.1	9991.7	9691.1	9645.2
52.5°	11321.5	11336.8	11505.0	11708.8	11647.6	11341.9	11209.4	10791.6	10282.1	10012.1	9854.1
55°	11810.7	11734.2	12024.7	12671.7	12743.1	12427.2	11841.2	11224.7	10460.4	10129.2	10088.5
56°	11352.1	11448.9	11907.5	12631.0	12997.8	12707.4	11856.5	11117.7	10277.0	9828.6	9798.1
57.5°	10185.3	10134.3	10756.0	11744.4	12743.1	12620.8	11438.7	10353.4	9375.2	8870.7	8809.6
60°	6338.4	6486.2	7031.4	8254.2	9589.2	9650.3	8478.4	7546.0	6404.7	5956.3	6063.3
62.5°	2481.4	2354.0	2695.4	3607.4	4524.5	4728.3	4285.1	3561.5	2924.6	2481.4	2450.8
65°	575.8	560.5	631.8	871.3	1217.8	1411.4	1340.0	963.0	708.2	672.6	621.6
67.5°	326.1	326.1	310.8	310.8	341.4	361.8	346.5	341.4	356.7	371.9	366.9
70°	229.3	224.2	214.0	219.1	208.9	208.9	224.2	249.7	270.0	270.0	275.1
72.5°	137.6	137.6	137.6	152.9	152.9	152.9	168.1	188.5	193.6	188.5	183.4
75°	61.1	61.1	71.3	86.6	96.8	101.9	117.2	127.4	137.6	127.4	117.2
77.5°	15.3	15.3	25.5	35.7	45.9	56.0	76.4	91.7	96.8	91.7	76.4
80°	5.1	5.1	10.2	25.5	45.9	56.0	76.4	81.5	86.6	76.4	61.1
82.5°	5.1	5.1	10.2	25.5	35.7	45.9	61.1	71.3	76.4	66.2	61.1
85°	0.0	5.1	10.2	20.4	30.6	40.8	40.8	30.6	25.5	15.3	20.4
87.5°	0.0	0.0	5.1	5.1	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)