

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: P533447

Luminaire Tested: **GALN-SA8D-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533447
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-SA8D-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA 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: 27560 lumens
Efficiency: N/A
Efficacy: 55.9 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

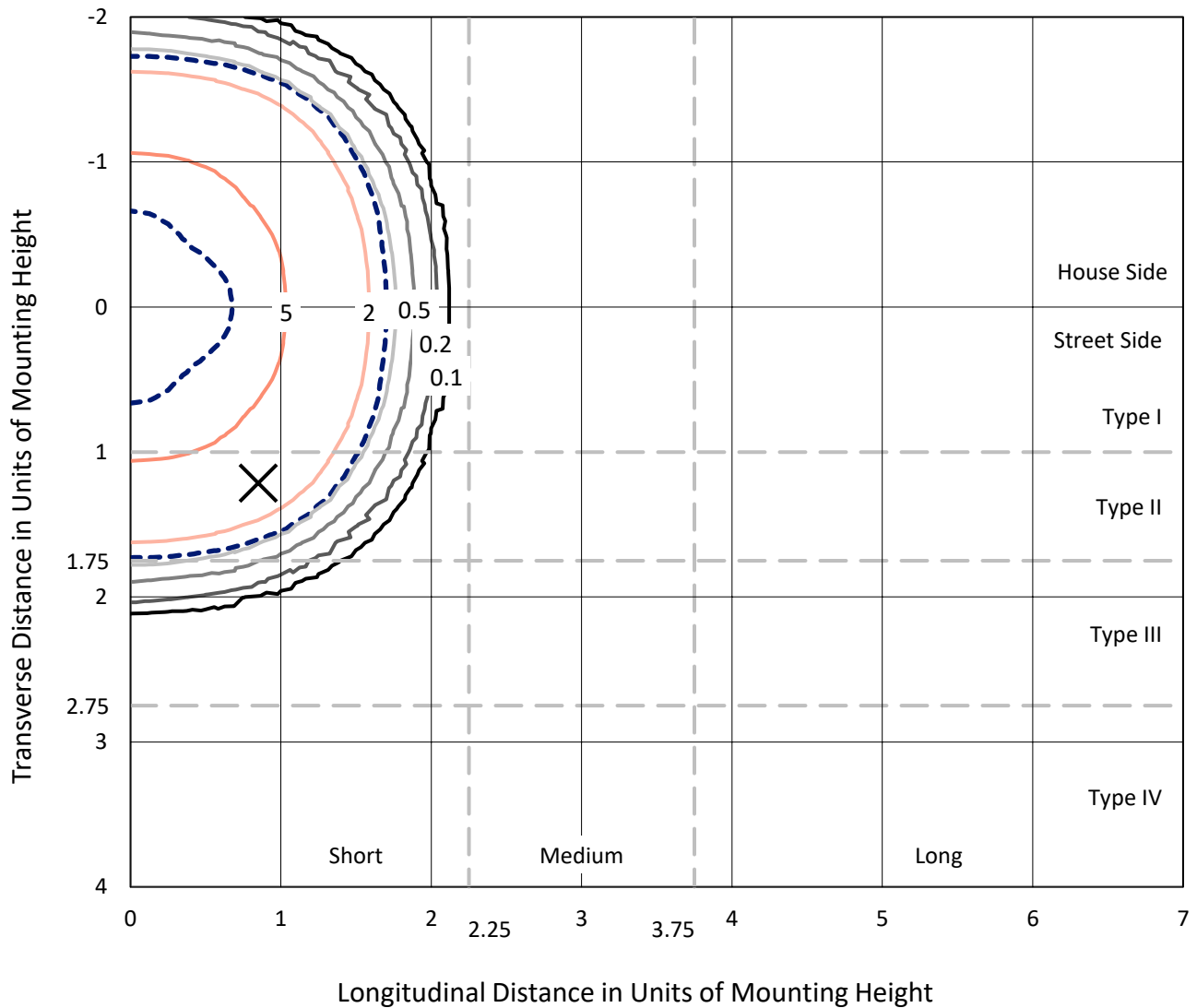
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

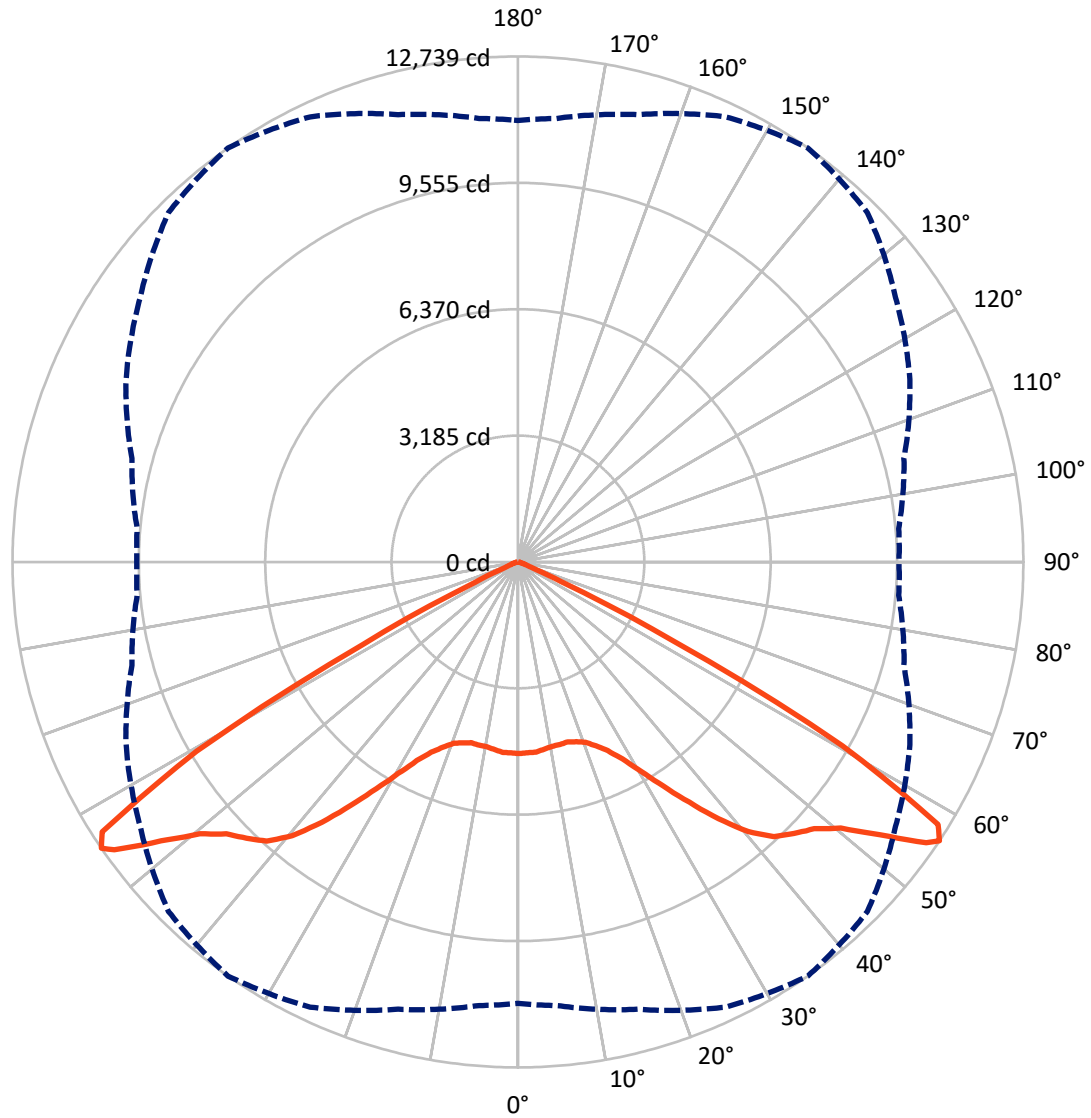
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	13780.0	0.0	13780.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13780.0	0.0	13780.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27560.0	0.0	27560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.9	1.6
10°-20°	1325.1	4.8
20°-30°	2399.5	8.7
30°-40°	4449.5	16.1
40°-50°	7303.6	26.5
50°-60°	9409.2	34.1
60°-70°	2073.7	7.5
70°-80°	120.3	0.4
80°-90°	25.3	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°	27560.0	100.0
0°-180°	27560.0	100.0

Coefficient of Utilization



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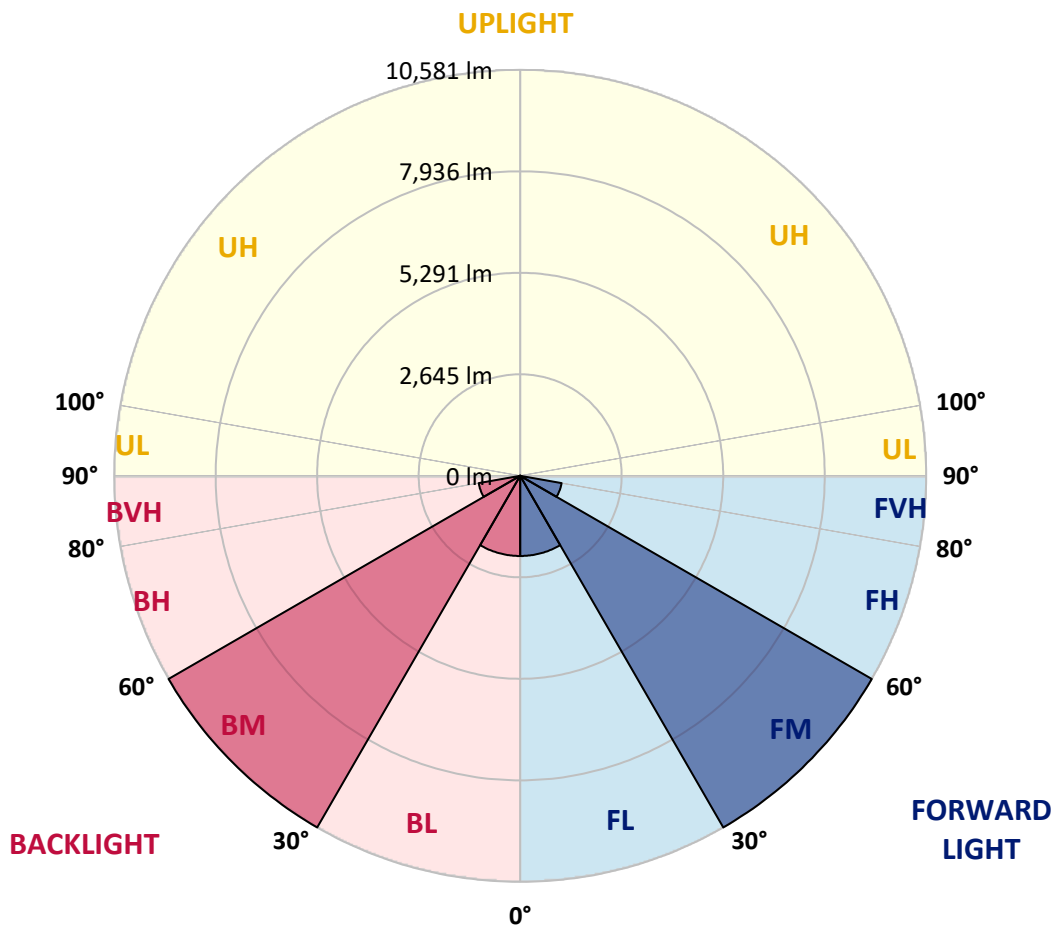
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2089.2	7.6			
FM (30°-60°)	10581.1	38.4			
FH (60°-80°)	1097.0	4.0			G1/1800
FVH (80°-90°)	12.7	0.0			G1/100
BL (0°-30°)	2089.2	7.6	B3/2500		
BM (30°-60°)	10581.1	38.4	B5		
BH (60°-80°)	1097.0	4.0	B3/2500		G1/1800
BVH (80°-90°)	12.7	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°	4829.1	4829.1	4829.1	4829.1	4829.1	4829.1	4829.1	4829.1	4829.1	4829.1	4829.1
2.5°	4839.1	4839.1	4844.1	4849.1	4814.1	4799.1	4804.1	4794.1	4789.2	4804.1	4804.1
5°	4824.1	4824.1	4809.1	4814.1	4814.1	4769.2	4769.2	4779.2	4779.2	4749.2	4739.2
7.5°	4784.2	4774.2	4754.2	4779.2	4764.2	4764.2	4729.2	4704.3	4694.3	4714.2	4694.3
10°	4699.3	4704.3	4724.2	4734.2	4724.2	4754.2	4694.3	4659.3	4624.4	4609.4	4609.4
12.5°	4659.3	4689.3	4659.3	4684.3	4719.2	4694.3	4659.3	4634.3	4584.4	4564.4	4564.4
15°	4654.3	4674.3	4684.3	4719.2	4704.3	4714.2	4644.3	4614.4	4539.5	4504.5	4489.5
17.5°	4649.3	4674.3	4689.3	4754.2	4764.2	4769.2	4714.2	4624.4	4559.4	4524.5	4489.5
20°	4704.3	4714.2	4744.2	4809.1	4849.1	4919.0	4819.1	4724.2	4584.4	4544.5	4529.5
22.5°	4774.2	4824.1	4854.1	4924.0	5028.9	5088.8	4958.9	4839.1	4694.3	4644.3	4584.4
25°	4998.9	4988.9	5038.8	5183.7	5268.6	5313.5	5208.6	5033.9	4844.1	4784.2	4794.1
27.5°	5278.6	5288.5	5333.5	5493.3	5618.1	5688.1	5563.2	5333.5	5148.7	5048.8	5038.8
30°	5643.1	5633.1	5683.1	5897.8	6122.5	6227.4	6007.7	5738.0	5558.2	5428.4	5458.3
32.5°	6027.6	6032.6	6172.5	6367.2	6731.8	6936.5	6582.0	6252.4	5982.7	5892.8	5847.9
35°	6596.9	6621.9	6731.8	7031.4	7435.9	7700.6	7311.1	6916.6	6606.9	6442.1	6462.1
37.5°	7301.1	7276.1	7460.9	7785.5	8210.0	8404.7	8075.1	7625.7	7311.1	7201.2	7271.1
40°	8050.2	8075.1	8170.0	8464.7	8939.1	9068.9	8579.5	8334.8	8060.2	8005.2	8090.1
42.5°	8799.3	8784.3	8854.2	9118.9	9463.4	9373.6	9083.9	8939.1	8744.3	8634.5	8749.3
45°	9348.6	9323.6	9453.5	9633.2	9758.1	9588.3	9458.5	9408.5	9308.6	9188.8	9293.7
47.5°	9882.9	9863.0	9987.8	10037.7	10047.7	9823.0	9848.0	9937.9	9688.2	9438.5	9558.3
50°	10337.4	10302.4	10457.2	10567.1	10542.1	10182.6	10272.5	10182.6	9793.0	9498.4	9453.5
52.5°	11096.5	11111.4	11276.2	11476.0	11416.1	11116.4	10986.6	10577.1	10077.7	9813.0	9658.2
55°	11575.9	11501.0	11785.6	12419.8	12489.8	12180.1	11605.8	11001.6	10252.5	9927.9	9887.9
56°	11126.4	11221.3	11670.8	12379.9	12739.4	12454.8	11620.8	10896.7	10072.7	9633.2	9603.3
57.5°	9982.8	9932.9	10542.1	11510.9	12489.8	12369.9	11211.3	10147.6	9188.8	8694.4	8634.5
60°	6212.4	6357.2	6891.6	8090.1	9398.5	9458.5	8309.9	7396.0	6277.3	5837.9	5942.7
62.5°	2432.0	2307.2	2641.8	3535.7	4434.6	4634.3	4199.9	3490.7	2866.5	2432.0	2402.1
65°	564.3	549.3	619.2	854.0	1193.5	1383.3	1313.4	943.8	694.2	659.2	609.3
67.5°	319.6	319.6	304.6	304.6	334.6	354.6	339.6	334.6	349.6	364.6	359.6
70°	224.7	219.7	209.7	214.7	204.8	204.8	219.7	244.7	264.7	264.7	269.7
72.5°	134.8	134.8	134.8	149.8	149.8	149.8	164.8	184.8	189.8	184.8	179.8
75°	59.9	59.9	69.9	84.9	94.9	99.9	114.9	124.8	134.8	124.8	114.9
77.5°	15.0	15.0	25.0	35.0	44.9	54.9	74.9	89.9	94.9	89.9	74.9
80°	5.0	5.0	10.0	25.0	44.9	54.9	74.9	79.9	84.9	74.9	59.9
82.5°	5.0	5.0	10.0	25.0	35.0	44.9	59.9	69.9	74.9	64.9	59.9
85°	0.0	5.0	10.0	20.0	30.0	40.0	40.0	30.0	25.0	15.0	20.0
87.5°	0.0	0.0	5.0	5.0	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)