

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: P533527

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533527
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-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 23818 lumens
Efficiency: N/A
Efficacy: 86.9 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

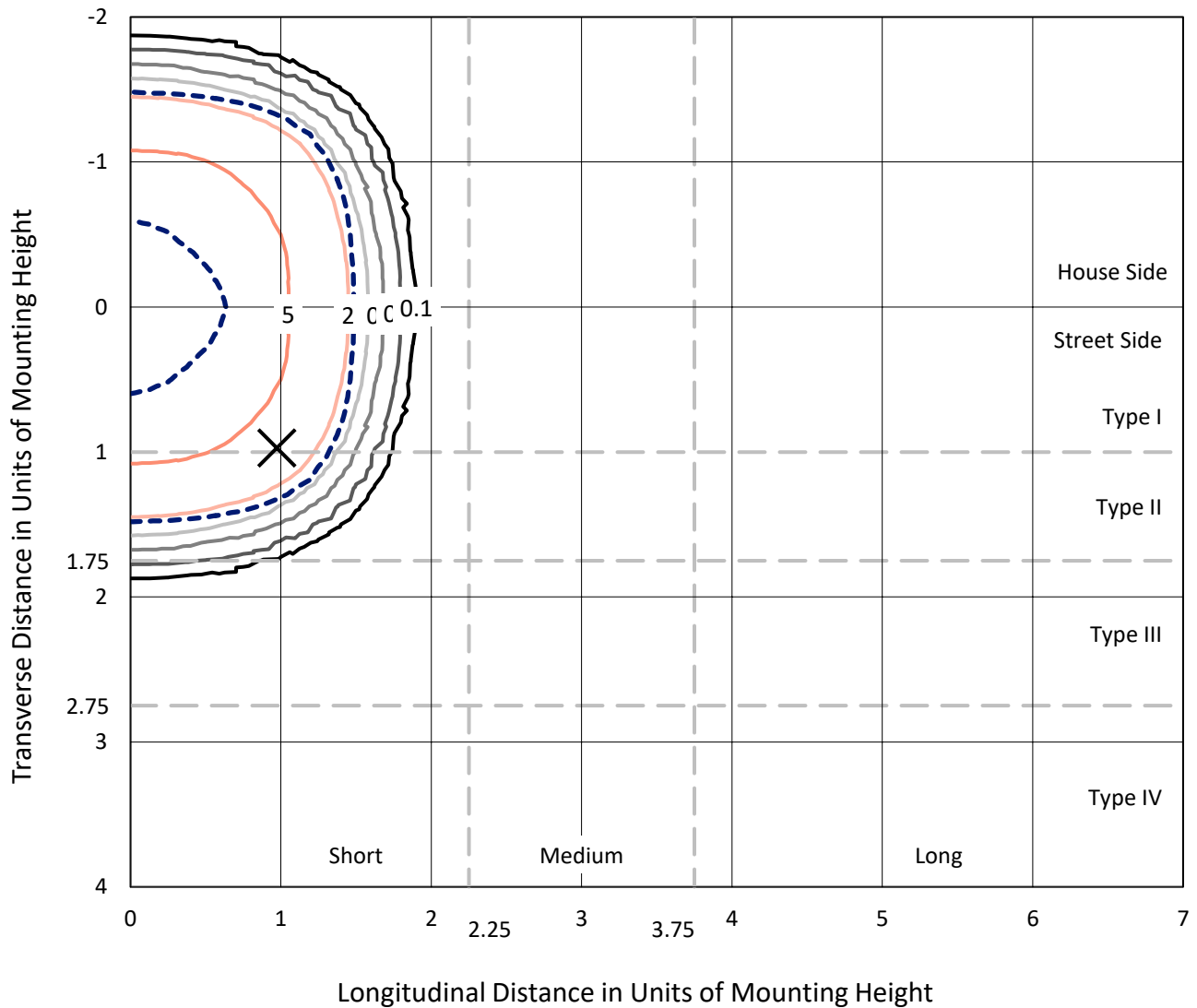
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

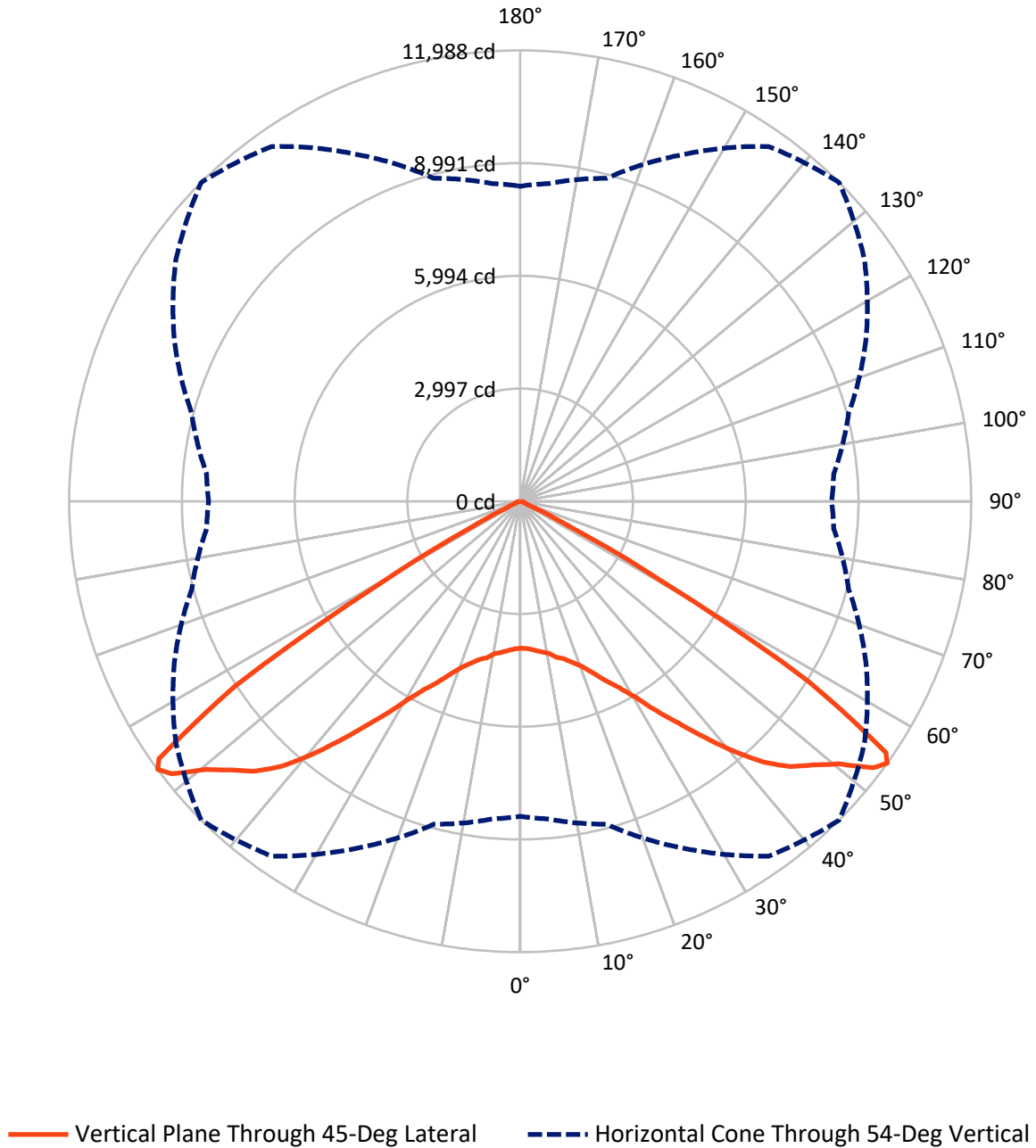
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	11909.0	0.0	11909.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11909.0	0.0	11909.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23818.0	0.0	23818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.2	1.6
10°-20°	1237.9	5.2
20°-30°	2426.1	10.2
30°-40°	4362.7	18.3
40°-50°	7468.1	31.4
50°-60°	7226.1	30.3
60°-70°	618.6	2.6
70°-80°	73.3	0.3
80°-90°	23.0	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°	23818.0	100.0
0°-180°	23818.0	100.0

Coefficient of Utilization



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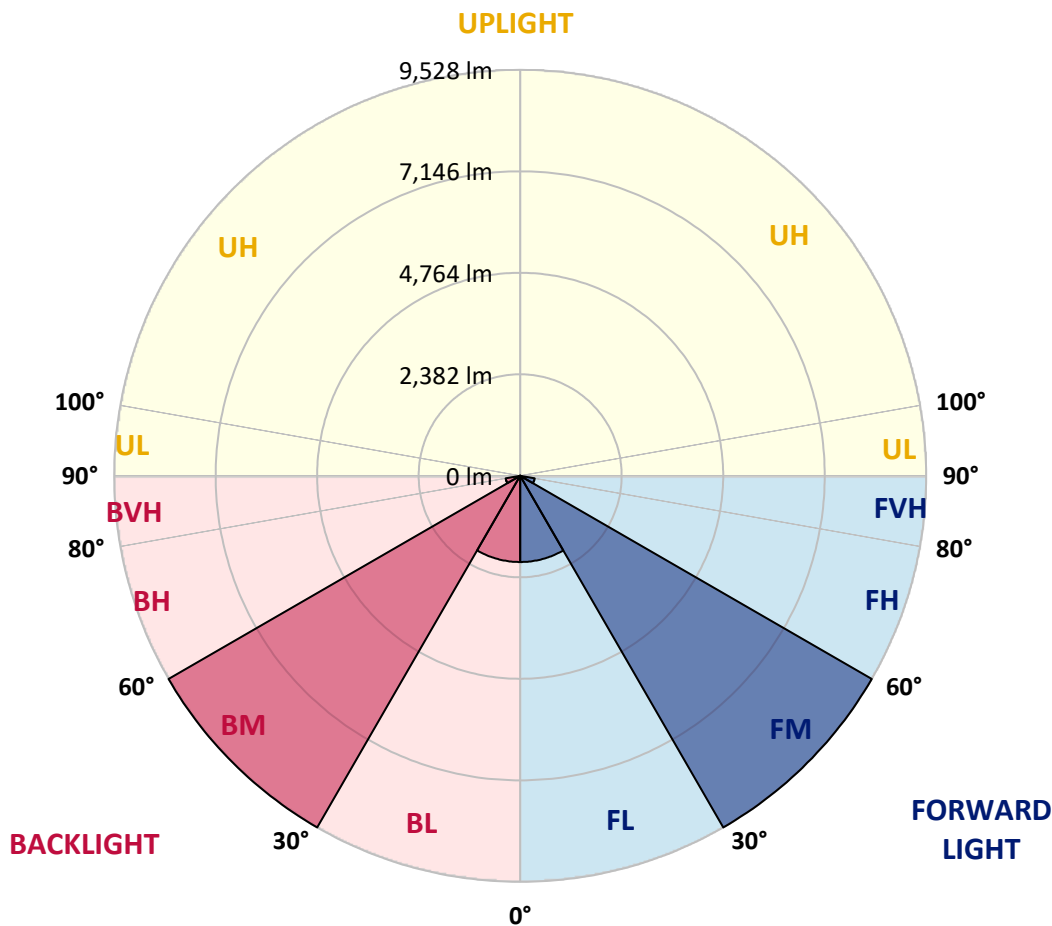
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2023.1	8.5			
FM (30°-60°)	9528.4	40.0			
FH (60°-80°)	345.9	1.5			G0/660
FVH (80°-90°)	11.5	0.0			G1/100
BL (0°-30°)	2023.1	8.5	B3/2500		
BM (30°-60°)	9528.4	40.0	B5		
BH (60°-80°)	345.9	1.5	B1/500		G0/660
BVH (80°-90°)	11.5	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°	3905.4	3905.4	3905.4	3905.4	3905.4	3905.4	3905.4	3905.4	3905.4	3905.4	3905.4
2.5°	3924.3	3946.9	3931.8	3943.1	3943.1	3924.3	3935.6	3890.3	3920.5	3897.9	3901.6
5°	3984.7	3980.9	3980.9	3984.7	3969.6	3977.1	3962.0	3946.9	3935.6	3920.5	3965.8
7.5°	4060.1	4060.1	4033.7	4041.3	4033.7	4045.0	4014.8	3984.7	3973.3	3962.0	3954.5
10°	4131.8	4124.3	4112.9	4146.9	4120.5	4105.4	4090.3	4071.4	4029.9	4014.8	3999.7
12.5°	4237.5	4233.7	4218.6	4252.6	4237.5	4252.6	4196.0	4146.9	4139.4	4090.3	4116.7
15°	4362.0	4395.9	4369.5	4369.5	4362.0	4343.1	4320.5	4297.8	4229.9	4211.1	4214.8
17.5°	4524.2	4512.9	4516.7	4516.7	4554.4	4505.4	4460.1	4403.5	4369.5	4358.2	4320.5
20°	4678.9	4694.0	4690.3	4716.7	4739.3	4686.5	4637.4	4629.9	4535.6	4550.7	4497.8
22.5°	4950.6	4939.3	4958.2	4977.0	4961.9	4954.4	4909.1	4852.5	4769.5	4731.8	4724.2
25°	5237.4	5218.5	5184.6	5229.9	5252.5	5286.5	5199.7	5169.5	5041.2	4984.6	4988.4
27.5°	5482.7	5509.1	5546.8	5565.7	5622.3	5611.0	5550.6	5452.5	5354.4	5290.2	5248.7
30°	5818.5	5833.6	5897.7	5924.1	6022.3	6048.7	5954.3	5841.1	5667.6	5584.5	5535.5
32.5°	6127.9	6233.6	6229.8	6361.9	6520.3	6629.8	6460.0	6286.4	6112.8	6014.7	5927.9
35°	6629.8	6610.9	6720.3	6859.9	7116.5	7241.0	7056.2	6856.2	6592.0	6433.5	6365.6
37.5°	7097.7	7105.2	7252.4	7475.0	7769.3	7961.8	7799.5	7471.2	7199.5	6995.8	6901.4
40°	7776.9	7792.0	7942.9	8195.7	8527.8	8735.3	8546.6	8214.6	7852.3	7693.8	7693.8
42.5°	8573.0	8637.2	8735.3	8954.1	9252.2	9482.4	9312.6	9052.2	8686.2	8482.5	8512.7
45°	9391.9	9422.0	9486.2	9810.7	9950.3	10063.5	9905.0	9784.3	9539.0	9290.0	9248.5
47.5°	10157.8	10169.2	10357.8	10459.7	10569.1	10474.8	10576.7	10418.2	10142.7	9901.3	9852.2
50°	10497.4	10478.6	10746.5	11055.9	11138.9	10972.9	10886.1	10780.4	10361.6	10071.1	9942.8
52.5°	9508.8	9618.3	10116.3	10976.7	11625.7	11765.3	11259.7	10772.9	9991.8	9425.8	9339.0
54°	8376.8	8478.7	8890.0	10165.4	11516.2	11987.9	11172.9	10139.0	9037.2	8365.5	8278.7
55°	7256.1	7142.9	7890.1	9191.9	11003.1	11791.7	10829.5	9320.2	8059.9	7444.8	7324.1
57.5°	3928.0	3946.9	4577.1	5807.2	7731.6	9040.9	7984.4	6305.3	4762.0	4071.4	4011.1
60°	1245.2	1275.4	1550.8	2347.0	3694.1	4411.0	3780.9	2531.9	1750.8	1403.7	1347.1
62.5°	388.7	403.7	441.5	656.6	1011.3	1445.2	1132.0	679.2	505.6	464.1	471.7
65°	237.7	237.7	241.5	256.6	301.9	350.9	339.6	298.1	286.8	279.2	275.5
67.5°	154.7	150.9	158.5	169.8	177.3	181.1	192.4	203.8	200.0	192.4	192.4
70°	94.3	90.6	98.1	113.2	117.0	124.5	135.8	150.9	147.2	139.6	143.4
72.5°	52.8	52.8	56.6	67.9	79.2	86.8	98.1	109.4	113.2	109.4	109.4
75°	18.9	22.6	30.2	41.5	49.1	60.4	71.7	83.0	94.3	86.8	83.0
77.5°	7.5	7.5	15.1	26.4	37.7	49.1	67.9	79.2	86.8	79.2	71.7
80°	3.8	3.8	11.3	22.6	34.0	45.3	56.6	67.9	71.7	64.1	56.6
82.5°	3.8	3.8	11.3	22.6	34.0	41.5	60.4	67.9	75.5	67.9	56.6
85°	0.0	3.8	11.3	22.6	30.2	34.0	34.0	22.6	18.9	11.3	11.3
87.5°	0.0	0.0	3.8	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)