

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: P533525

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533525
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-SA9A-727-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 20808 lumens
Efficiency: N/A
Efficacy: 75.9 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

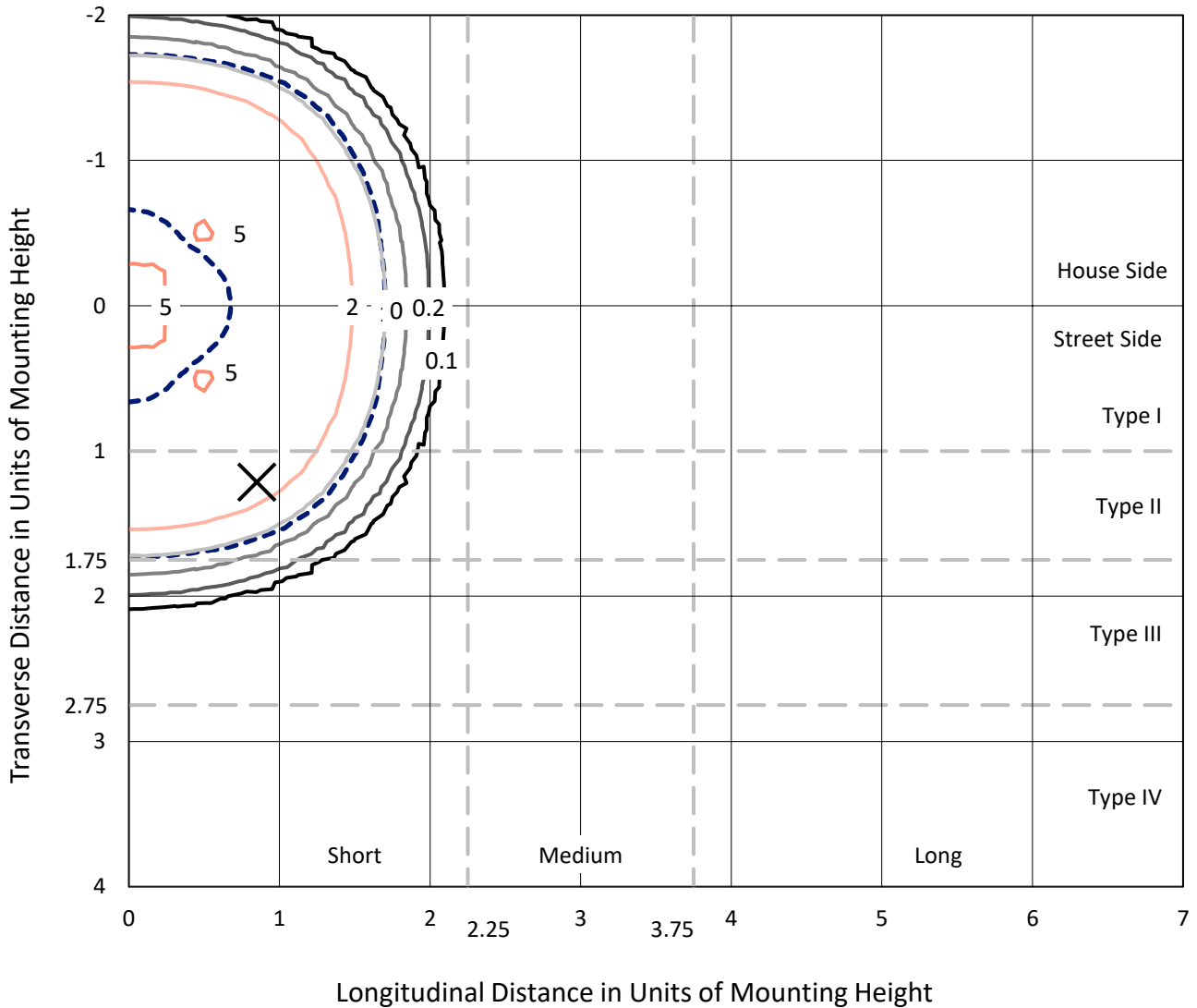
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

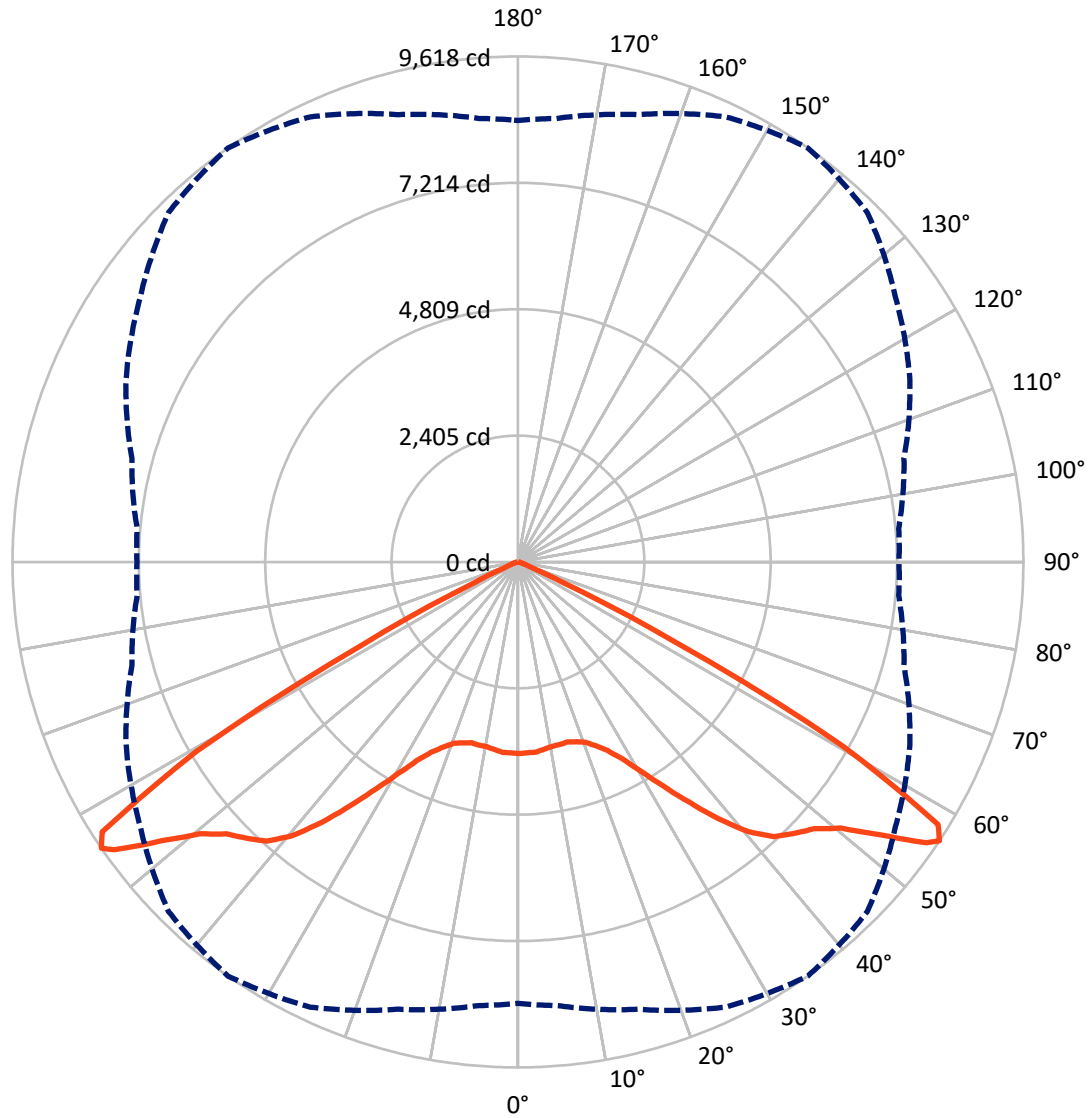
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	10404.0	0.0	10404.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10404.0	0.0	10404.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20808.0	0.0	20808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.7	1.6
10°-20°	1000.4	4.8
20°-30°	1811.6	8.7
30°-40°	3359.4	16.1
40°-50°	5514.3	26.5
50°-60°	7104.0	34.1
60°-70°	1565.6	7.5
70°-80°	90.8	0.4
80°-90°	19.1	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°	20808.0	100.0
0°-180°	20808.0	100.0

Coefficient of Utilization

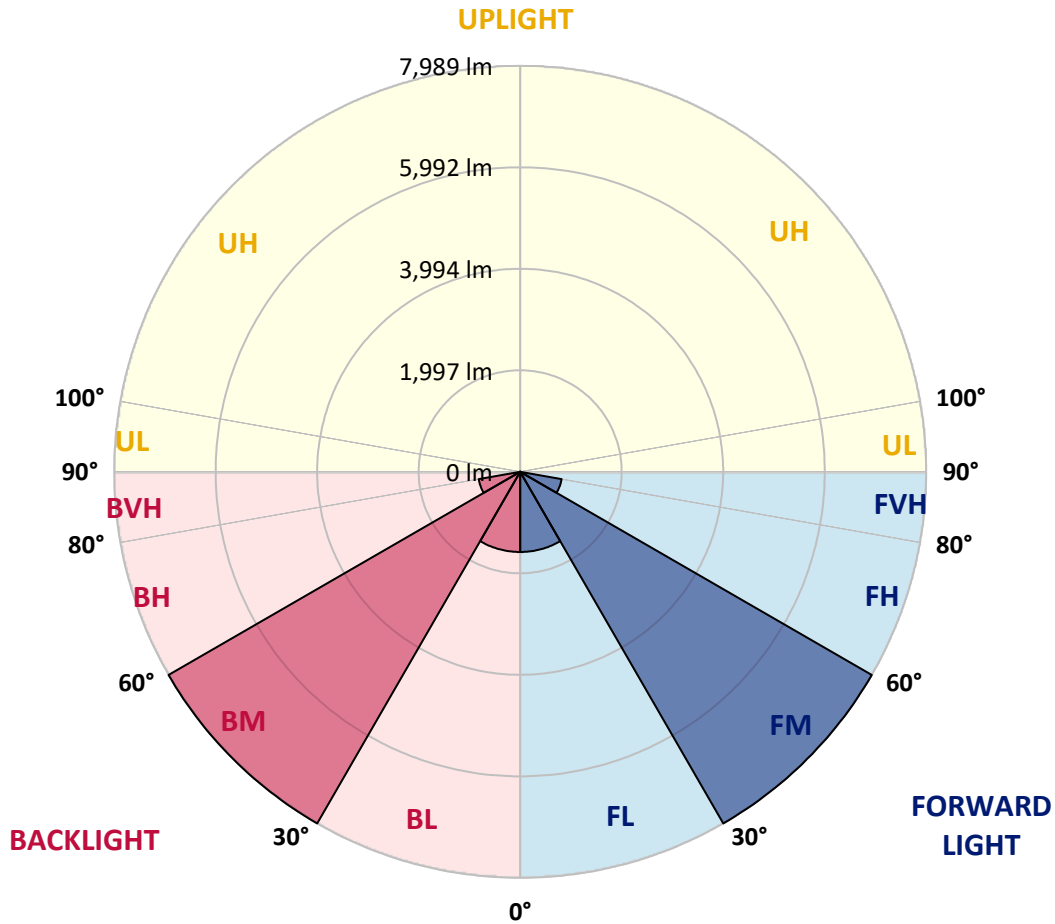


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1577.4	7.6			
FM (30°-60°)	7988.8	38.4			
FH (60°-80°)	828.2	4.0			G1/1800
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	1577.4	7.6	B3/2500		
BM (30°-60°)	7988.8	38.4	B4/8500		
BH (60°-80°)	828.2	4.0	B2/1000		G1/1800
BVH (80°-90°)	9.6	0.0			G0/10
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°	3646.0	3646.0	3646.0	3646.0	3646.0	3646.0	3646.0	3646.0	3646.0	3646.0	3646.0
2.5°	3653.5	3653.5	3657.3	3661.1	3634.7	3623.4	3627.2	3619.6	3615.8	3627.2	3627.2
5°	3642.2	3642.2	3630.9	3634.7	3634.7	3600.8	3600.8	3608.3	3608.3	3585.7	3578.1
7.5°	3612.1	3604.5	3589.5	3608.3	3597.0	3597.0	3570.6	3551.7	3544.2	3559.3	3544.2
10°	3548.0	3551.7	3566.8	3574.4	3566.8	3589.5	3544.2	3517.8	3491.4	3480.1	3480.1
12.5°	3517.8	3540.4	3517.8	3536.7	3563.1	3544.2	3517.8	3499.0	3461.3	3446.2	3446.2
15°	3514.0	3529.1	3536.7	3563.1	3551.7	3559.3	3506.5	3483.9	3427.3	3400.9	3389.6
17.5°	3510.3	3529.1	3540.4	3589.5	3597.0	3600.8	3559.3	3491.4	3442.4	3416.0	3389.6
20°	3551.7	3559.3	3581.9	3630.9	3661.1	3713.9	3638.5	3566.8	3461.3	3431.1	3419.8
22.5°	3604.5	3642.2	3664.9	3717.6	3796.8	3842.1	3744.0	3653.5	3544.2	3506.5	3461.3
25°	3774.2	3766.7	3804.4	3913.7	3977.8	4011.7	3932.6	3800.6	3657.3	3612.1	3619.6
27.5°	3985.3	3992.9	4026.8	4147.5	4241.7	4294.5	4200.3	4026.8	3887.3	3811.9	3804.4
30°	4260.6	4253.0	4290.8	4452.9	4622.6	4701.7	4535.8	4332.2	4196.5	4098.5	4121.1
32.5°	4550.9	4554.7	4660.3	4807.3	5082.5	5237.1	4969.4	4720.6	4517.0	4449.1	4415.2
35°	4980.7	4999.6	5082.5	5308.8	5614.2	5814.0	5519.9	5222.1	4988.3	4863.9	4878.9
37.5°	5512.4	5493.5	5633.0	5878.1	6198.6	6345.6	6096.8	5757.5	5519.9	5437.0	5489.8
40°	6077.9	6096.8	6168.4	6390.9	6749.1	6847.1	6477.6	6292.9	6085.5	6044.0	6108.1
42.5°	6643.5	6632.2	6685.0	6884.8	7145.0	7077.1	6858.4	6749.1	6602.0	6519.1	6605.8
45°	7058.3	7039.4	7137.4	7273.2	7367.4	7239.2	7141.2	7103.5	7028.1	6937.6	7016.8
47.5°	7461.7	7446.6	7540.9	7578.6	7586.1	7416.4	7435.3	7503.2	7314.6	7126.1	7216.6
50°	7804.8	7778.4	7895.3	7978.2	7959.4	7687.9	7755.8	7687.9	7393.8	7171.4	7137.4
52.5°	8377.9	8389.2	8513.6	8664.5	8619.2	8393.0	8295.0	7985.8	7608.7	7408.9	7292.0
55°	8739.9	8683.3	8898.2	9377.1	9429.9	9196.1	8762.5	8306.3	7740.7	7495.6	7465.5
56°	8400.5	8472.2	8811.5	9346.9	9618.4	9403.5	8773.8	8227.1	7605.0	7273.2	7250.5
57.5°	7537.1	7499.4	7959.4	8690.8	9429.9	9339.4	8464.6	7661.5	6937.6	6564.3	6519.1
60°	4690.4	4799.8	5203.2	6108.1	7096.0	7141.2	6274.0	5584.0	4739.4	4407.6	4486.8
62.5°	1836.2	1741.9	1994.6	2669.5	3348.1	3499.0	3170.9	2635.5	2164.2	1836.2	1813.6
65°	426.1	414.7	467.5	644.7	901.1	1044.4	991.6	712.6	524.1	497.7	460.0
67.5°	241.3	241.3	230.0	230.0	252.6	267.7	256.4	252.6	263.9	275.2	271.5
70°	169.7	165.9	158.4	162.1	154.6	154.6	165.9	184.8	199.8	199.8	203.6
72.5°	101.8	101.8	101.8	113.1	113.1	113.1	124.4	139.5	143.3	139.5	135.7
75°	45.2	45.2	52.8	64.1	71.6	75.4	86.7	94.3	101.8	94.3	86.7
77.5°	11.3	11.3	18.9	26.4	33.9	41.5	56.6	67.9	71.6	67.9	56.6
80°	3.8	3.8	7.5	18.9	33.9	41.5	56.6	60.3	64.1	56.6	45.2
82.5°	3.8	3.8	7.5	18.9	26.4	33.9	45.2	52.8	56.6	49.0	45.2
85°	0.0	3.8	7.5	15.1	22.6	30.2	30.2	22.6	18.9	11.3	15.1
87.5°	0.0	0.0	3.8	3.8	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)