

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: P457759

Luminaire Tested: **GALN-SA9A-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31964 lumens
Efficiency: N/A
Efficacy: 116.7 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

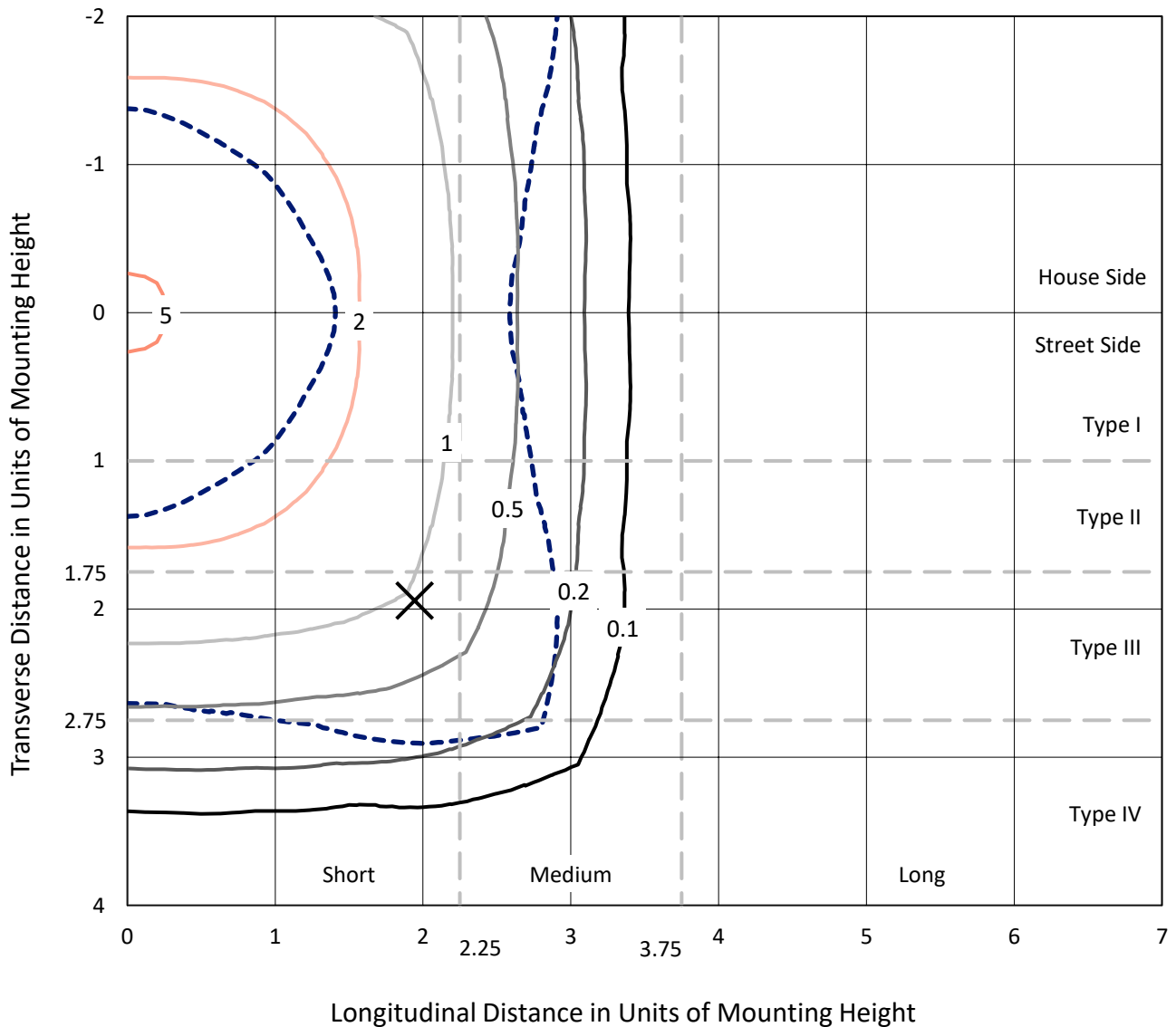
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

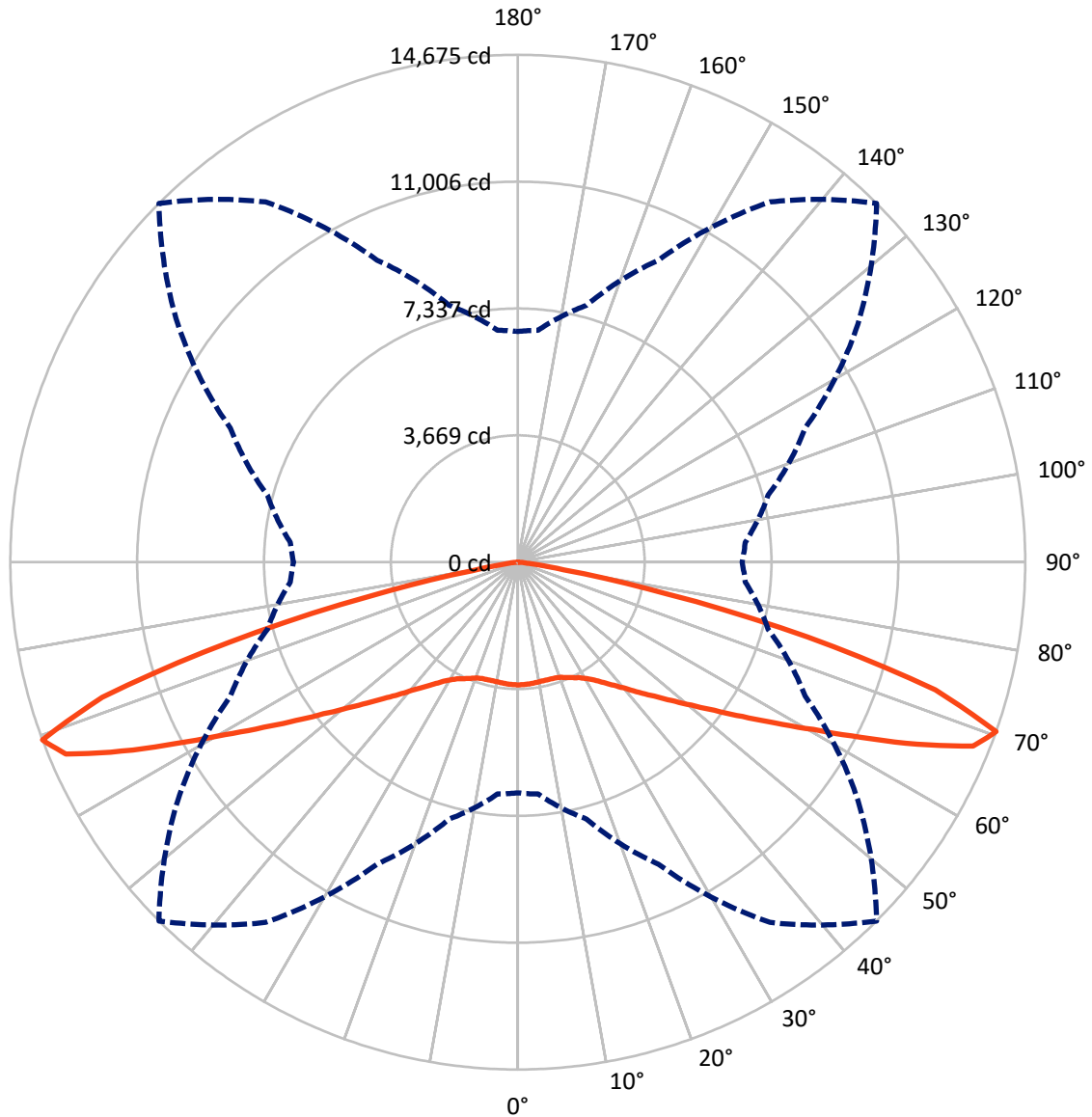
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15982.0	0.0	15982.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15982.0	0.0	15982.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31964.0	0.0	31964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.6	1.1
10°-20°	987.7	3.1
20°-30°	1689.3	5.3
30°-40°	2681.2	8.4
40°-50°	4325.5	13.5
50°-60°	7037.7	22.0
60°-70°	10202.2	31.9
70°-80°	4525.3	14.2
80°-90°	178.5	0.6
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°	31964.0	100.0
0°-180°	31964.0	100.0

Coefficient of Utilization



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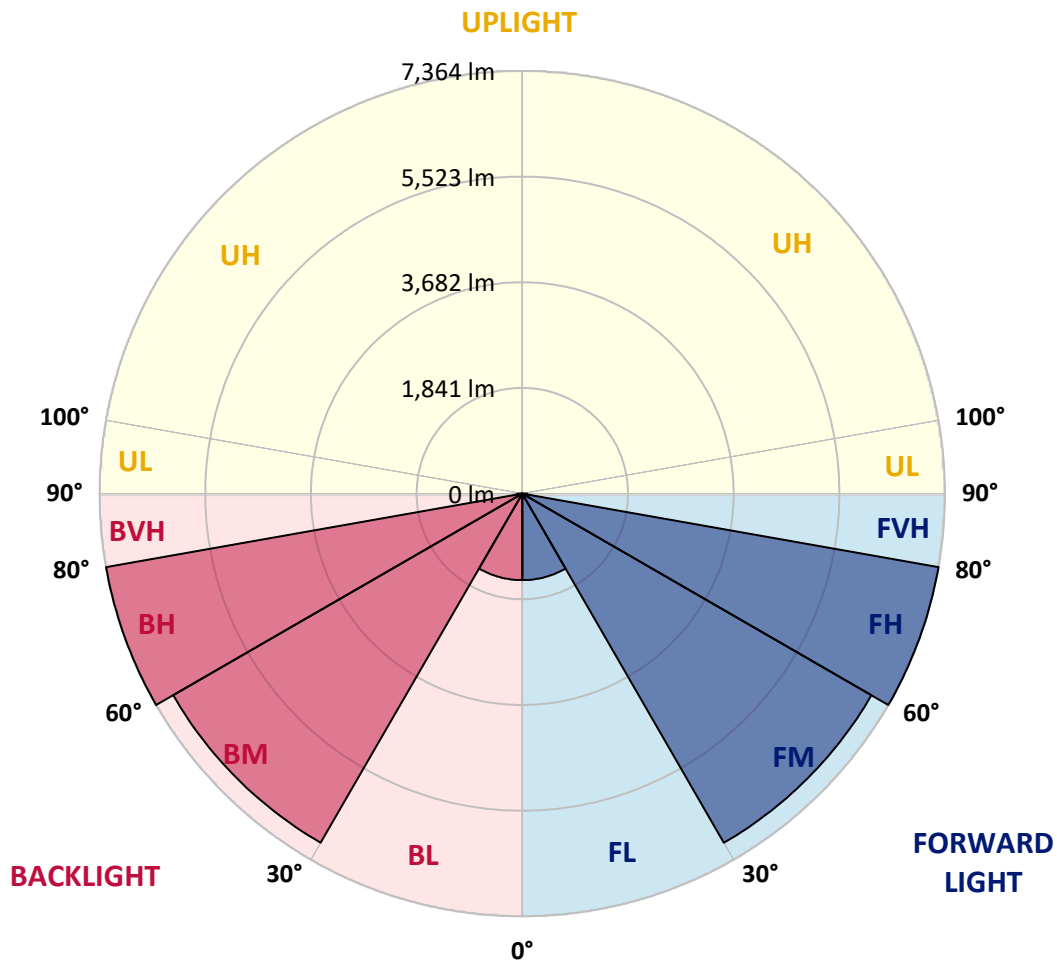
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1506.8	4.7			
FM (30°-60°)	7022.2	22.0			
FH (60°-80°)	7363.7	23.0			G3/7500
FVH (80°-90°)	89.2	0.3			G1/100
BL (0°-30°)	1506.8	4.7	B3/2500		
BM (30°-60°)	7022.2	22.0	B4/8500		
BH (60°-80°)	7363.7	23.0	B5		G3/7500
BVH (80°-90°)	89.2	0.3			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°	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5	3549.5
2.5°	3549.5	3552.8	3547.8	3544.4	3542.7	3542.7	3541.0	3542.7	3552.8	3554.5	3549.5
5°	3539.3	3542.7	3541.0	3537.7	3536.0	3536.0	3534.3	3532.6	3541.0	3544.4	3542.7
7.5°	3525.9	3527.6	3525.9	3524.2	3525.9	3524.2	3519.1	3515.8	3522.5	3522.5	3520.8
10°	3502.3	3505.7	3504.0	3505.7	3509.0	3509.0	3502.3	3495.5	3497.2	3493.9	3493.9
12.5°	3473.6	3478.7	3480.4	3487.1	3495.5	3505.7	3490.5	3475.3	3472.0	3470.3	3468.6
15°	3455.1	3460.2	3466.9	3473.6	3488.8	3510.7	3488.8	3465.2	3458.5	3451.7	3448.4
17.5°	3450.1	3456.8	3466.9	3477.0	3497.2	3519.1	3500.6	3477.0	3460.2	3450.1	3446.7
20°	3463.5	3468.6	3483.8	3502.3	3530.9	3552.8	3534.3	3509.0	3483.8	3468.6	3463.5
22.5°	3490.5	3498.9	3517.4	3551.1	3591.6	3623.6	3598.3	3556.2	3515.8	3495.5	3488.8
25°	3549.5	3556.2	3578.1	3623.6	3670.7	3701.1	3674.1	3625.3	3569.7	3542.7	3534.3
27.5°	3638.7	3648.8	3672.4	3726.3	3765.1	3781.9	3763.4	3729.7	3689.3	3660.6	3653.9
30°	3765.1	3776.9	3812.2	3869.5	3894.8	3904.9	3896.5	3874.6	3845.9	3815.6	3808.9
32.5°	3935.2	3942.0	3982.4	4036.3	4059.9	4063.3	4053.1	4043.0	3995.9	3945.3	3942.0
35°	4125.6	4137.4	4186.2	4250.2	4272.1	4273.8	4253.6	4238.5	4182.9	4142.4	4142.4
37.5°	4378.3	4383.3	4430.5	4502.9	4526.5	4519.8	4509.7	4496.2	4437.2	4385.0	4386.7
40°	4674.8	4684.9	4725.3	4809.5	4809.5	4801.1	4807.8	4797.7	4738.8	4688.2	4689.9
42.5°	5026.8	5031.9	5080.8	5170.0	5163.3	5146.5	5153.2	5139.7	5102.7	5045.4	5025.2
45°	5402.5	5422.7	5507.0	5592.9	5579.4	5525.5	5552.4	5549.1	5515.4	5429.5	5434.5
47.5°	5855.7	5889.4	5970.2	6073.0	6057.8	5973.6	6003.9	6024.1	5977.0	5882.6	5865.8
50°	6366.1	6388.0	6507.6	6603.6	6590.2	6500.9	6569.9	6573.3	6455.4	6322.3	6322.3
52.5°	6910.2	6932.1	7093.8	7243.8	7252.2	7122.5	7178.1	7174.7	6982.7	6807.5	6773.8
55°	7520.1	7530.2	7739.1	7959.7	8006.9	7880.6	7887.3	7819.9	7570.6	7366.8	7348.2
57.5°	8150.1	8187.2	8417.9	8704.3	8844.1	8766.7	8731.3	8551.0	8310.1	8076.0	8064.2
60°	8847.5	8849.2	9149.1	9487.7	9770.7	9822.9	9678.0	9437.1	9125.5	8815.5	8802.0
62.5°	9331.0	9403.4	9782.5	10355.2	10862.3	11155.4	10773.0	10267.6	9654.4	9154.1	9103.6
65°	9430.4	9479.2	10057.1	11027.4	12063.4	12695.1	11810.7	10736.0	9689.8	9022.7	8989.0
67.5°	8626.8	8679.1	9457.3	10946.5	12905.7	14201.2	12484.6	10510.2	9090.1	8264.6	8198.9
70°	6672.7	6731.7	7693.6	9635.9	12718.7	14674.5	12004.5	9167.6	7496.5	6605.3	6485.7
72.5°	3547.8	3765.1	4587.2	6613.7	10323.2	12634.5	9843.1	6689.5	4834.8	3952.1	3793.7
75°	1295.5	1322.4	1780.6	2932.9	6005.6	8663.9	6236.4	3190.6	1834.5	1416.7	1344.3
77.5°	535.7	534.0	586.2	886.1	2181.6	4437.2	2434.2	936.6	584.6	540.8	534.0
80°	316.7	316.7	348.7	368.9	574.4	1339.3	641.8	417.8	350.4	320.1	325.1
82.5°	141.5	149.9	220.7	232.5	278.0	367.2	310.0	266.2	229.1	158.4	143.2
85°	77.5	67.4	116.2	121.3	133.1	136.5	146.6	144.9	133.1	77.5	79.2
87.5°	15.2	18.5	33.7	25.3	28.6	25.3	33.7	47.2	48.9	27.0	21.9
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)