

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: P457063

Luminaire Tested: **GALN-SA8B-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457063
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-SA8B-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35426 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

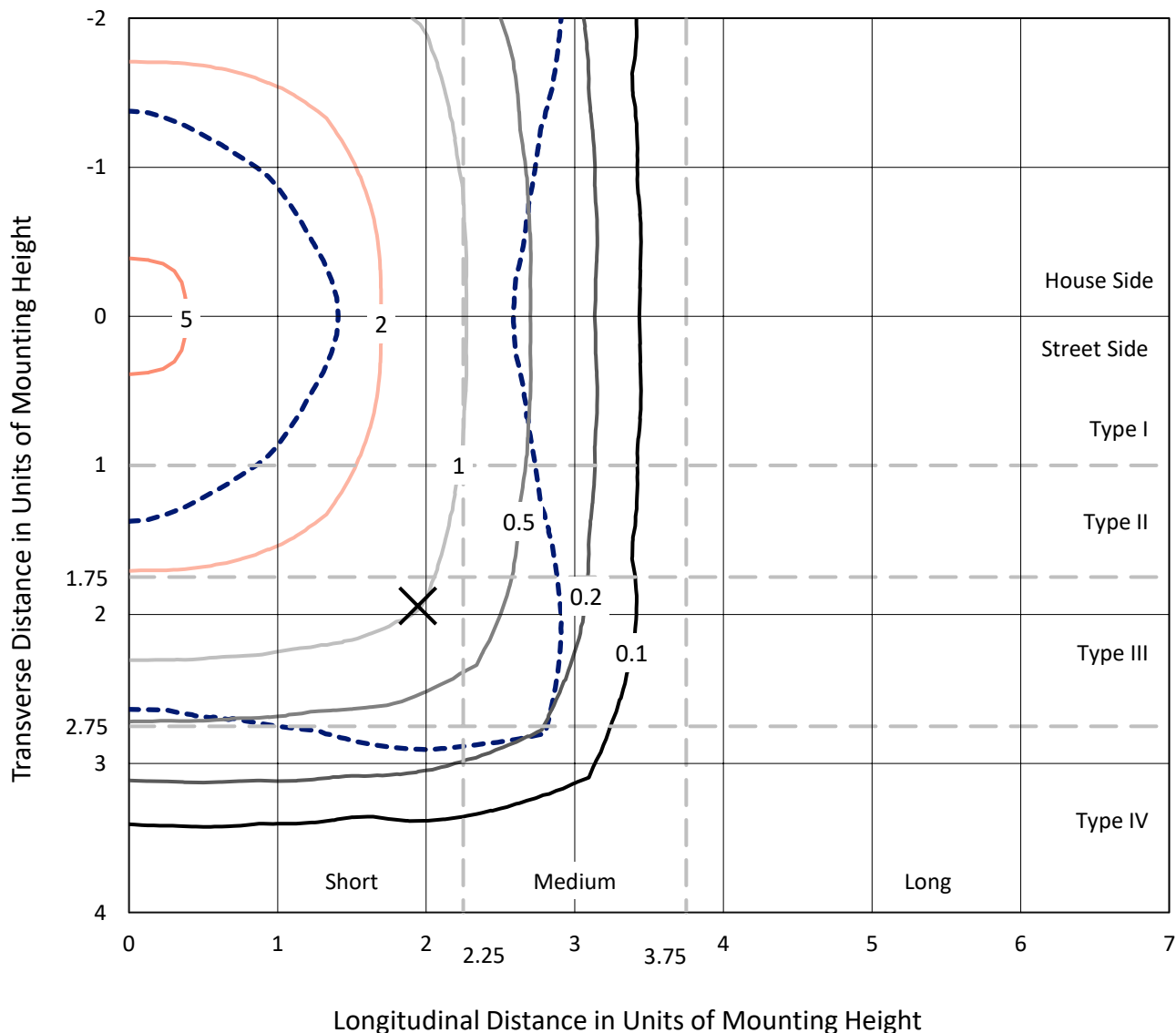
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

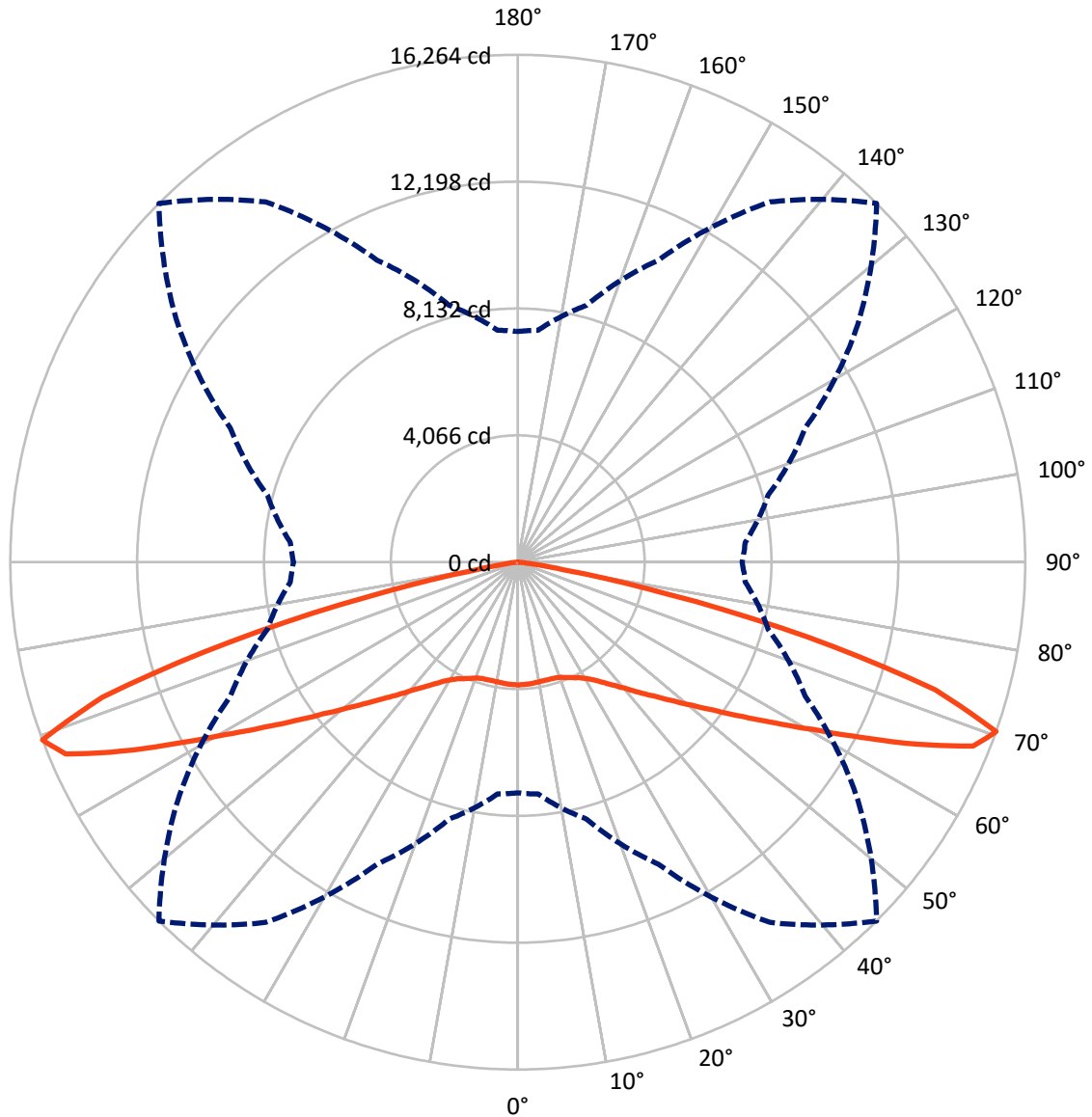
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	17713.0	0.0	17713.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17713.0	0.0	17713.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35426.0	0.0	35426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.0	1.1
10°-20°	1094.7	3.1
20°-30°	1872.2	5.3
30°-40°	2971.6	8.4
40°-50°	4794.0	13.5
50°-60°	7800.0	22.0
60°-70°	11307.2	31.9
70°-80°	5015.4	14.2
80°-90°	197.8	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°	35426.0	100.0
0°-180°	35426.0	100.0

Coefficient of Utilization



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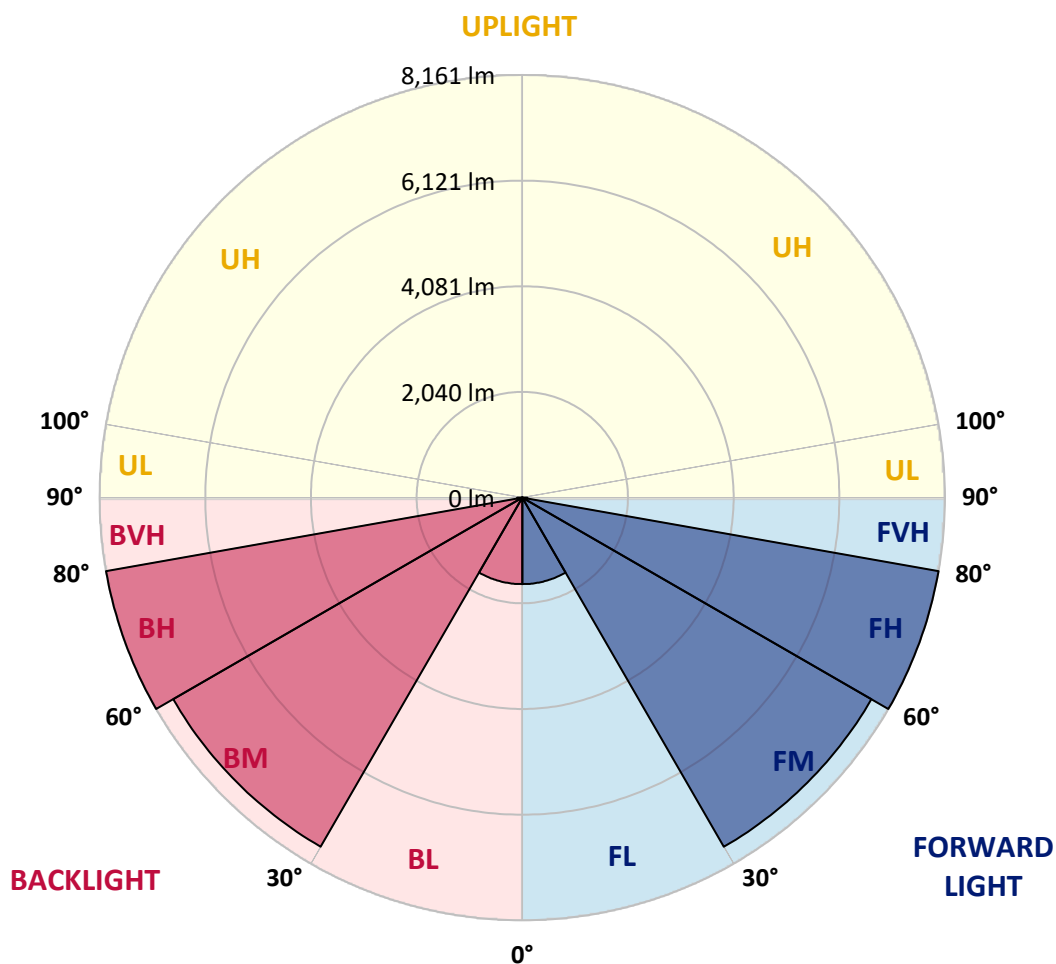
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1670.0	4.7			
FM (30°-60°)	7782.8	22.0			
FH (60°-80°)	8161.3	23.0			G4/12000
FVH (80°-90°)	98.9	0.3			G1/100
BL (0°-30°)	1670.0	4.7	B3/2500		
BM (30°-60°)	7782.8	22.0	B4/8500		
BH (60°-80°)	8161.3	23.0	B5		G4/12000
BVH (80°-90°)	98.9	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9	3933.9
2.5°	3933.9	3937.6	3932.0	3928.3	3926.4	3926.4	3924.6	3926.4	3937.6	3939.5	3933.9
5°	3922.7	3926.4	3924.6	3920.8	3919.0	3919.0	3917.1	3915.2	3924.6	3928.3	3926.4
7.5°	3907.8	3909.6	3907.8	3905.9	3907.8	3905.9	3900.3	3896.5	3904.0	3904.0	3902.2
10°	3881.6	3885.3	3883.5	3885.3	3889.1	3889.1	3881.6	3874.1	3876.0	3872.3	3872.3
12.5°	3849.9	3855.5	3857.3	3864.8	3874.1	3885.3	3868.5	3851.7	3848.0	3846.1	3844.3
15°	3829.3	3834.9	3842.4	3849.9	3866.7	3890.9	3866.7	3840.5	3833.1	3825.6	3821.9
17.5°	3823.7	3831.2	3842.4	3853.6	3876.0	3900.3	3879.7	3853.6	3834.9	3823.7	3820.0
20°	3838.7	3844.3	3861.1	3881.6	3913.4	3937.6	3917.1	3889.1	3861.1	3844.3	3838.7
22.5°	3868.5	3877.9	3898.4	3935.8	3980.6	4016.0	3988.0	3941.4	3896.5	3874.1	3866.7
25°	3933.9	3941.4	3965.6	4016.0	4068.3	4101.9	4072.1	4017.9	3956.3	3926.4	3917.1
27.5°	4032.8	4044.0	4070.2	4129.9	4172.9	4191.5	4171.0	4133.7	4088.9	4057.1	4049.6
30°	4172.9	4185.9	4225.2	4288.6	4316.6	4327.8	4318.5	4294.2	4262.5	4228.9	4221.4
32.5°	4361.4	4368.9	4413.7	4473.5	4499.6	4503.3	4492.1	4480.9	4428.7	4372.6	4368.9
35°	4572.4	4585.5	4639.6	4710.6	4734.9	4736.7	4714.3	4697.5	4635.9	4591.1	4591.1
37.5°	4852.5	4858.1	4910.4	4990.6	5016.8	5009.3	4998.1	4983.2	4917.8	4860.0	4861.8
40°	5181.1	5192.3	5237.1	5330.4	5330.4	5321.1	5328.6	5317.4	5252.0	5196.0	5197.9
42.5°	5571.3	5576.9	5631.0	5730.0	5722.5	5703.9	5711.3	5696.4	5655.3	5591.8	5569.4
45°	5987.7	6010.1	6103.4	6198.6	6183.7	6123.9	6153.8	6150.1	6112.7	6017.5	6023.1
47.5°	6489.9	6527.2	6616.9	6730.7	6713.9	6620.6	6654.2	6676.6	6624.3	6519.8	6501.1
50°	7055.6	7079.9	7212.4	7318.9	7303.9	7205.0	7281.5	7285.3	7154.6	7007.1	7007.1
52.5°	7658.7	7682.9	7862.2	8028.3	8037.7	7893.9	7955.5	7951.8	7739.0	7544.8	7507.4
55°	8334.5	8345.7	8577.3	8821.8	8874.1	8734.1	8741.6	8666.9	8390.6	8164.6	8144.1
57.5°	9032.8	9073.9	9329.7	9647.1	9802.1	9716.2	9677.0	9477.2	9210.2	8950.7	8937.6
60°	9805.8	9807.7	10140.0	10515.3	10828.9	10886.8	10726.2	10459.3	10113.9	9770.3	9755.4
62.5°	10341.6	10421.9	10842.0	11476.8	12038.8	12363.7	11939.8	11379.7	10700.1	10145.6	10089.6
65°	10451.8	10505.9	11146.3	12221.8	13370.0	14070.1	13089.9	11898.8	10739.3	10000.0	9962.6
67.5°	9561.2	9619.1	10481.7	12132.1	14303.5	15739.3	13836.8	11648.6	10074.6	9159.8	9087.0
70°	7395.4	7460.8	8526.9	10679.6	14096.3	16263.9	13304.7	10160.5	8308.4	7320.7	7188.2
72.5°	3932.0	4172.9	5084.0	7330.1	11441.3	14002.9	10909.2	7414.1	5358.5	4380.1	4204.6
75°	1435.8	1465.6	1973.5	3250.5	6656.1	9602.3	6911.8	3536.2	2033.2	1570.2	1489.9
77.5°	593.7	591.9	649.7	982.1	2417.8	4917.8	2697.9	1038.1	647.9	599.3	591.9
80°	351.0	351.0	386.5	408.9	636.7	1484.3	711.3	463.0	388.3	354.7	360.3
82.5°	156.8	166.2	244.6	257.7	308.1	407.0	343.5	295.0	253.9	175.5	158.7
85°	85.9	74.7	128.8	134.4	147.5	151.2	162.4	160.6	147.5	85.9	87.8
87.5°	16.8	20.5	37.3	28.0	31.7	28.0	37.3	52.3	54.1	29.9	24.3
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)