

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: P457764

Luminaire Tested: **GALN-SA9A-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
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-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31444 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

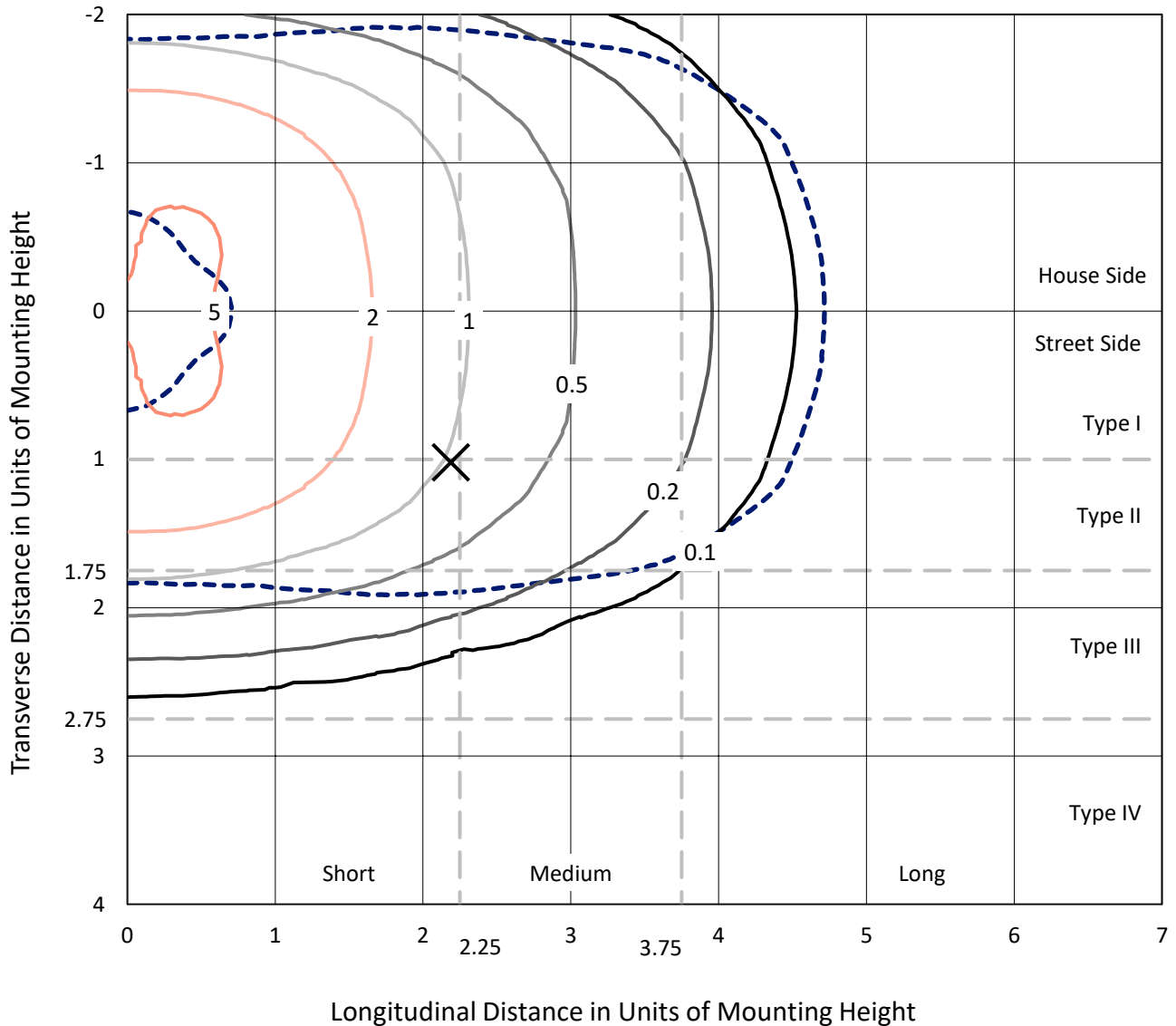
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

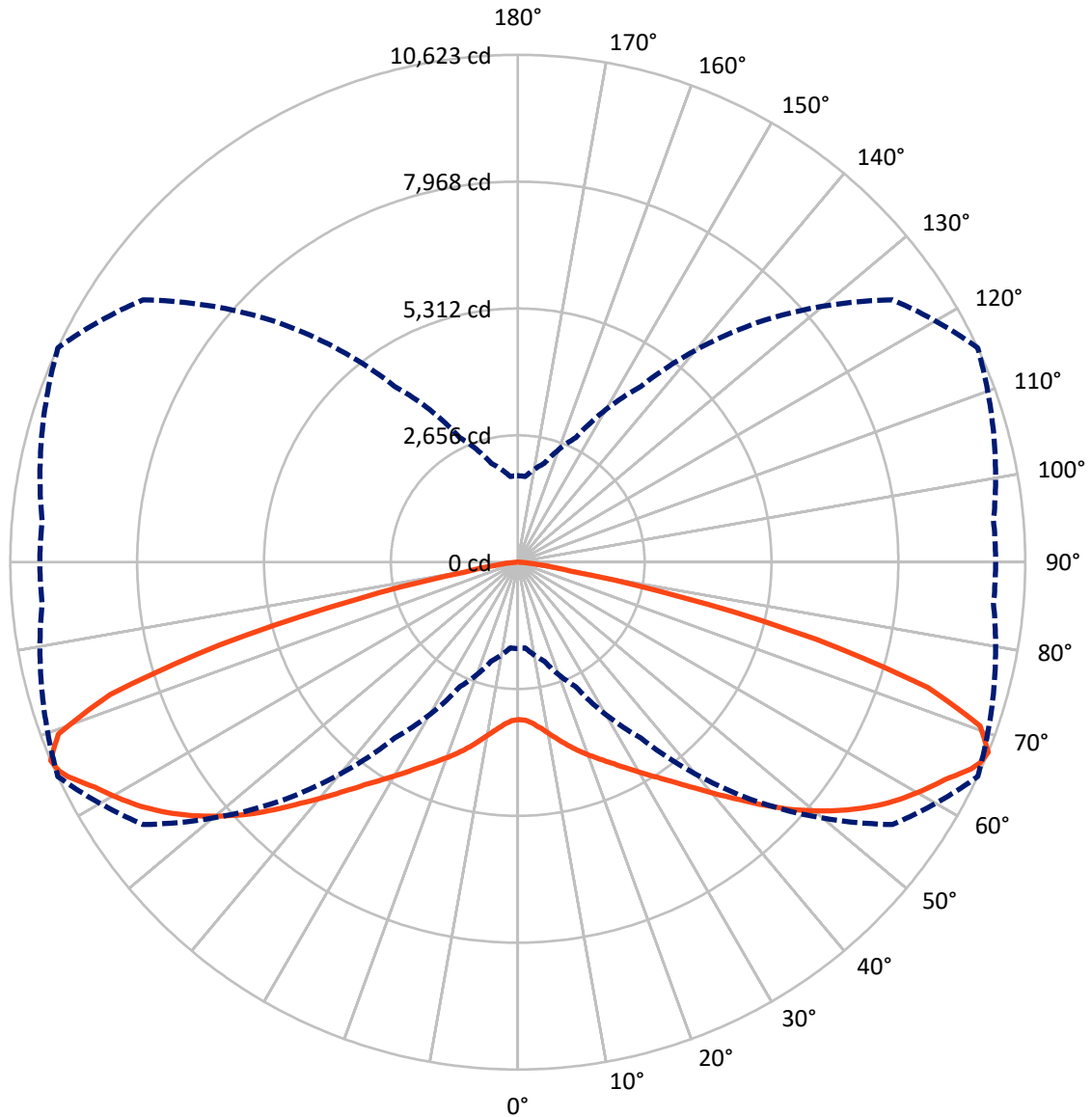
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15722.0	0.0	15722.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15722.0	0.0	15722.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31444.0	0.0	31444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	1.0
10°-20°	1087.2	3.5
20°-30°	2126.6	6.8
30°-40°	3617.0	11.5
40°-50°	5724.7	18.2
50°-60°	7590.8	24.1
60°-70°	7160.4	22.8
70°-80°	3539.8	11.3
80°-90°	272.8	0.9
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°	31444.0	100.0
0°-180°	31444.0	100.0

Coefficient of Utilization



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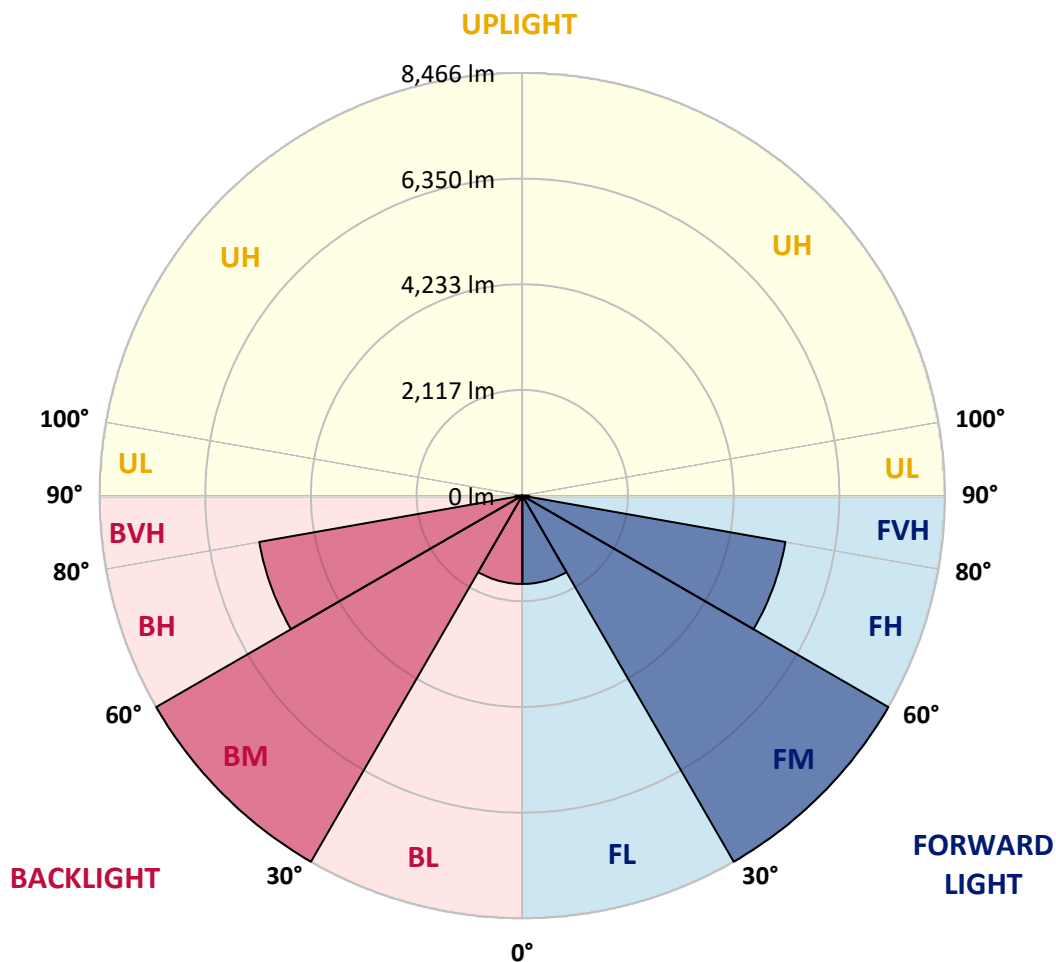
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1769.3	5.6			
FM	(30°-60°)	8466.2	26.9			
FH	(60°-80°)	5350.1	17.0			G3/7500
FVH	(80°-90°)	136.4	0.4			G2/225
BL	(0°-30°)	1769.3	5.6	B3/2500		
BM	(30°-60°)	8466.2	26.9	B4/8500		
BH	(60°-80°)	5350.1	17.0	B5		G5
BVH	(80°-90°)	136.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3293.5	3293.5	3293.5	3293.5	3293.5	3293.5	3293.5	3293.5	3293.5	3293.5	3293.5
2.5°	3276.6	3280.0	3283.4	3288.4	3295.2	3305.3	3312.0	3317.1	3330.5	3332.2	3330.5
5°	3264.8	3268.2	3276.6	3291.8	3313.7	3344.0	3367.6	3396.2	3418.1	3433.3	3429.9
7.5°	3263.2	3269.9	3283.4	3315.4	3357.5	3409.7	3463.6	3512.5	3554.6	3588.3	3583.2
10°	3290.1	3298.5	3320.4	3367.6	3433.3	3509.1	3584.9	3657.4	3718.0	3761.8	3777.0
12.5°	3335.6	3342.3	3382.8	3453.5	3547.9	3642.2	3728.1	3817.4	3901.6	3975.8	3975.8
15°	3414.8	3426.6	3477.1	3579.9	3696.1	3805.6	3893.2	3987.6	4078.5	4162.8	4188.0
17.5°	3524.3	3541.1	3616.9	3748.3	3896.6	3997.7	4080.2	4157.7	4236.9	4317.7	4329.5
20°	3674.2	3691.1	3792.1	3950.5	4125.7	4247.0	4302.6	4321.1	4359.9	4437.4	4447.5
22.5°	3878.1	3894.9	4007.8	4186.3	4381.8	4513.2	4536.7	4492.9	4482.8	4543.5	4550.2
25°	4108.8	4124.0	4253.7	4445.8	4647.9	4791.1	4784.4	4676.6	4615.9	4653.0	4663.1
27.5°	4368.3	4390.2	4521.6	4720.4	4939.4	5065.7	5045.5	4888.8	4759.1	4752.4	4755.8
30°	4700.2	4723.7	4848.4	5038.8	5254.4	5370.6	5328.5	5118.0	4917.5	4850.1	4850.1
32.5°	5050.6	5109.5	5235.9	5434.7	5603.1	5687.4	5623.3	5370.6	5104.5	5010.1	5005.1
35°	5507.1	5539.1	5663.8	5857.5	5983.9	6049.6	5926.6	5655.4	5348.7	5237.6	5222.4
37.5°	5953.5	5980.5	6125.4	6310.7	6464.0	6460.6	6293.8	5994.0	5652.0	5527.3	5517.2
40°	6410.1	6438.7	6603.8	6774.0	6927.3	6913.8	6711.6	6376.4	6012.5	5872.7	5899.6
42.5°	6806.0	6838.0	7025.0	7267.6	7405.7	7402.3	7168.2	6790.8	6411.8	6287.1	6310.7
45°	7166.5	7195.1	7412.4	7690.4	7892.6	7917.8	7661.8	7262.5	6873.4	6713.3	6720.1
47.5°	7420.9	7474.8	7702.2	8020.6	8295.2	8384.5	8133.5	7742.6	7294.5	7127.7	7137.8
50°	7614.6	7648.3	7895.9	8258.1	8605.2	8790.5	8588.3	8187.4	7715.7	7538.8	7562.4
52.5°	7638.2	7678.6	7948.2	8365.9	8810.7	9092.0	8992.6	8622.0	8145.3	7963.3	8013.9
55°	7446.1	7469.7	7791.5	8298.6	8891.6	9316.1	9341.4	9026.3	8554.6	8416.5	8450.2
57.5°	6898.6	6959.3	7367.0	7983.5	8780.4	9435.7	9602.5	9393.6	8969.1	8832.6	8886.5
60°	6000.7	6061.4	6470.7	7252.4	8360.9	9380.1	9818.1	9718.7	9344.7	9235.2	9263.9
62.5°	4701.8	4696.8	5203.9	6162.4	7527.0	9107.2	9978.2	10032.1	9715.3	9577.2	9621.0
65°	3047.5	3062.7	3552.9	4585.6	6268.6	8413.1	10013.5	10431.3	10079.2	9870.3	9902.3
66°	2451.2	2496.6	2912.8	3864.6	5626.7	7958.3	9907.4	10549.2	10190.4	9937.7	9952.9
67.5°	1809.3	1800.9	2142.9	2877.4	4492.9	7094.0	9575.5	10623.4	10316.8	9998.4	10005.1
70°	1032.7	1031.0	1152.3	1580.2	2641.5	4995.0	8071.1	10267.9	10572.8	10217.4	10198.8
72.5°	754.7	749.7	766.5	872.6	1288.8	2521.9	5567.8	8974.1	10441.4	10182.0	10129.8
75°	633.4	630.1	626.7	640.2	722.7	1142.2	2954.9	6455.6	9060.0	9557.0	9503.1
77.5°	517.2	517.2	518.9	515.5	518.9	601.4	1224.7	3460.3	5517.2	6159.1	6309.0
80°	404.3	402.6	431.3	419.5	392.5	385.8	542.5	1113.6	1831.2	1821.1	1502.7
82.5°	298.2	278.0	328.5	320.1	289.8	246.0	316.7	475.1	611.5	397.6	294.8
85°	188.7	187.0	232.5	212.3	176.9	116.2	151.6	203.8	252.7	153.3	124.7
87.5°	33.7	32.0	74.1	53.9	53.9	33.7	42.1	55.6	82.5	57.3	42.1
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)