

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: P457993

Luminaire Tested: **GALN-SA9B-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39688 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

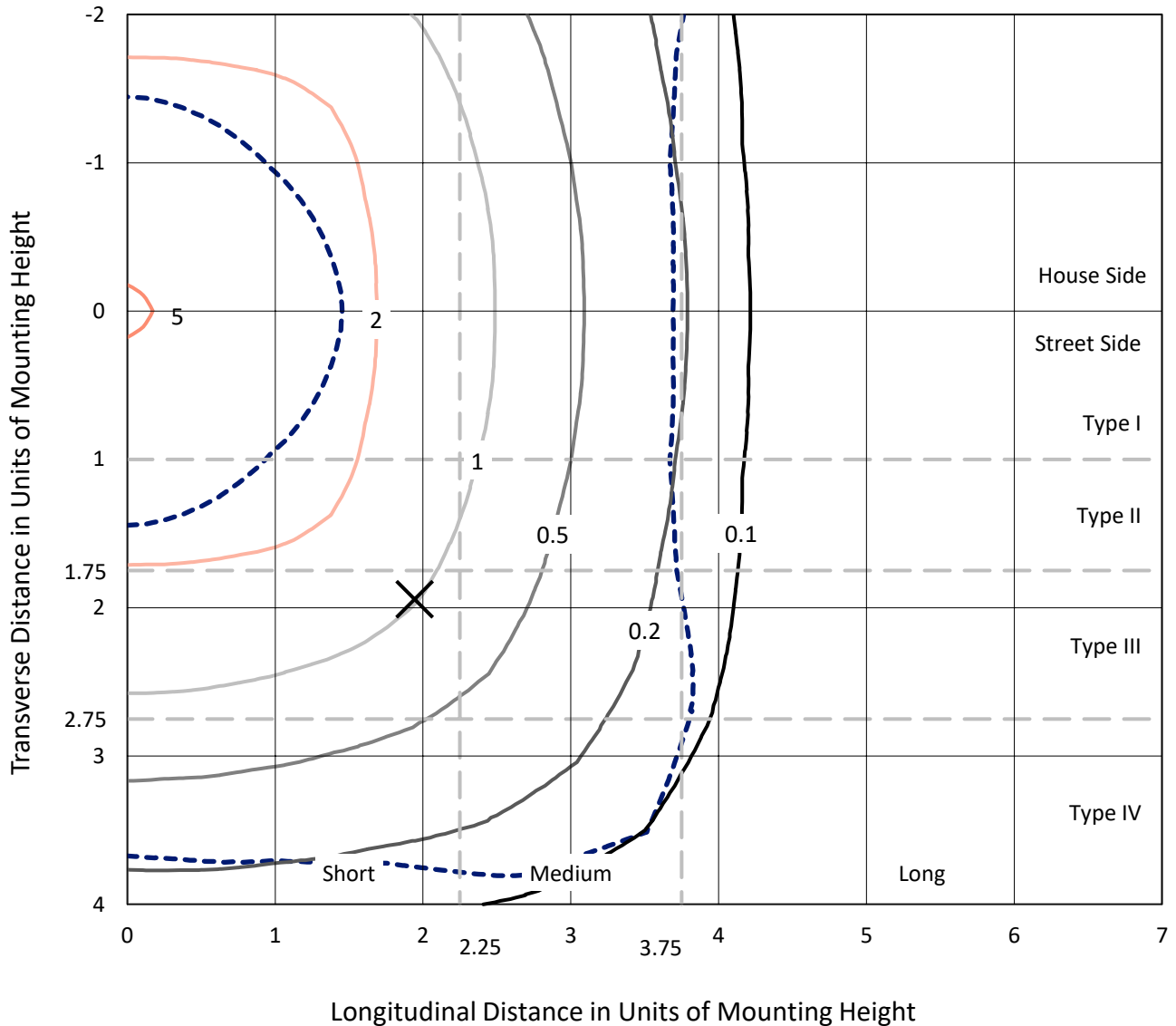
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

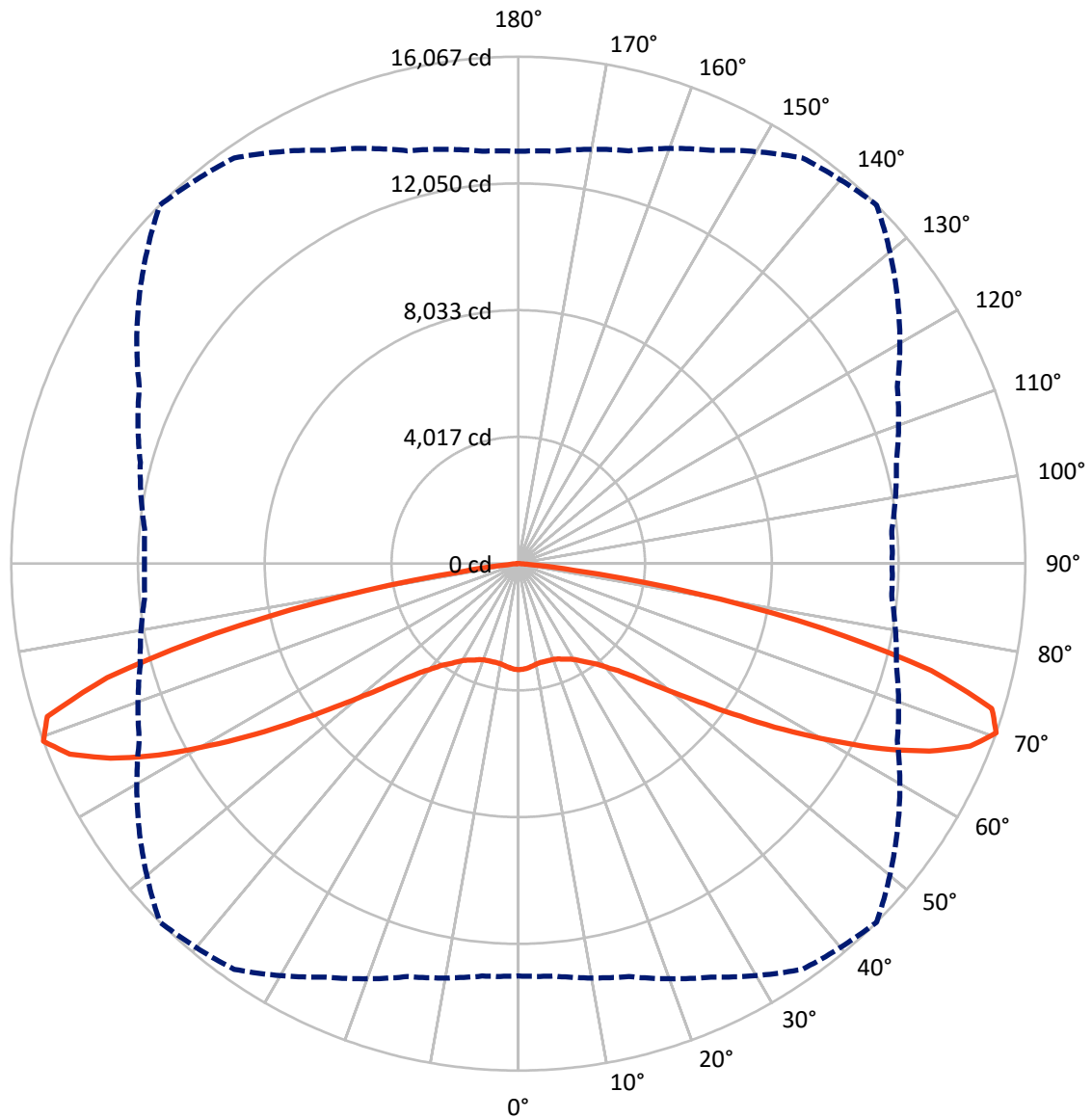
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	19844.0	0.0	19844.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19844.0	0.0	19844.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	39688.0	0.0	39688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.2	0.8
10°-20°	919.9	2.3
20°-30°	1567.3	3.9
30°-40°	2429.4	6.1
40°-50°	4089.0	10.3
50°-60°	7439.7	18.7
60°-70°	12595.2	31.7
70°-80°	9749.2	24.6
80°-90°	584.2	1.5
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°	39688.0	100.0
0°-180°	39688.0	100.0

Coefficient of Utilization



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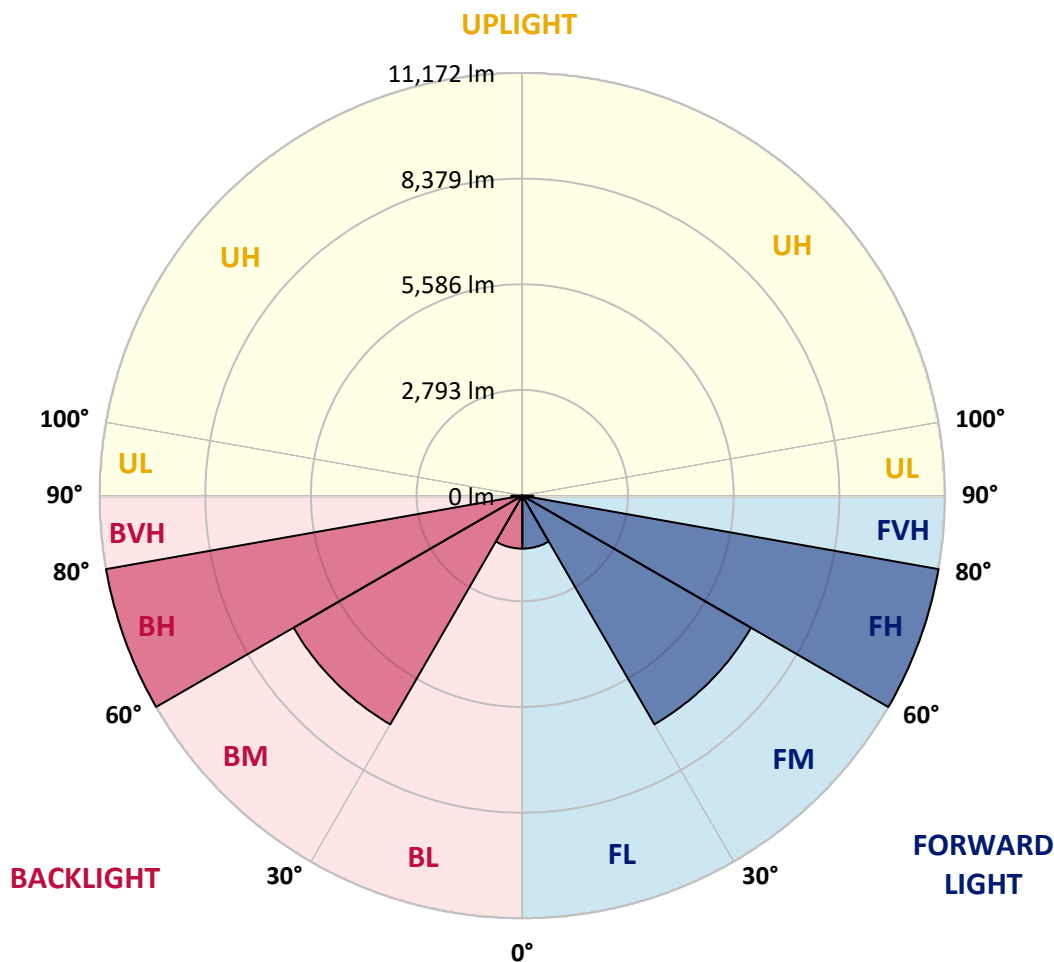
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1400.7	3.5			
FM (30°-60°)	6979.0	17.6			
FH (60°-80°)	11172.2	28.1			G4/12000
FVH (80°-90°)	292.1	0.7			G3/500
BL (0°-30°)	1400.7	3.5	B3/2500		
BM (30°-60°)	6979.0	17.6	B4/8500		
BH (60°-80°)	11172.2	28.1	B5		G4/12000
BVH (80°-90°)	292.1	0.7			G3/500
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°	3360.1	3360.1	3360.1	3360.1	3360.1	3360.1	3360.1	3360.1	3360.1	3360.1	3360.1
2.5°	3351.7	3353.8	3353.8	3349.6	3347.5	3347.5	3345.4	3345.4	3351.7	3353.8	3355.9
5°	3322.3	3322.3	3322.3	3320.2	3316.1	3316.1	3311.9	3311.9	3314.0	3320.2	3316.1
7.5°	3282.5	3286.7	3286.7	3278.3	3272.0	3272.0	3269.9	3272.0	3274.1	3280.4	3278.3
10°	3269.9	3272.0	3261.6	3246.9	3236.4	3230.1	3232.2	3236.4	3246.9	3251.1	3253.2
12.5°	3278.3	3278.3	3259.5	3238.5	3219.6	3211.3	3209.2	3223.8	3242.7	3255.3	3259.5
15°	3288.8	3284.6	3261.6	3234.3	3215.4	3213.3	3211.3	3221.7	3249.0	3274.1	3276.2
17.5°	3295.1	3293.0	3263.7	3230.1	3219.6	3219.6	3217.5	3225.9	3255.3	3286.7	3288.8
20°	3316.1	3309.8	3276.2	3240.6	3232.2	3236.4	3230.1	3240.6	3272.0	3309.8	3318.2
22.5°	3358.0	3351.7	3318.2	3282.5	3278.3	3278.3	3276.2	3286.7	3320.2	3360.1	3366.4
25°	3408.3	3402.0	3370.6	3345.4	3349.6	3358.0	3353.8	3355.9	3383.1	3416.7	3427.2
27.5°	3475.4	3464.9	3437.6	3416.7	3429.2	3429.2	3429.2	3427.2	3443.9	3475.4	3485.8
30°	3557.1	3552.9	3523.6	3521.5	3532.0	3521.5	3521.5	3523.6	3525.7	3555.0	3565.5
32.5°	3664.0	3655.6	3641.0	3636.8	3666.1	3674.5	3645.1	3617.9	3632.6	3661.9	3668.2
35°	3840.1	3827.5	3806.5	3783.5	3806.5	3846.4	3783.5	3762.5	3800.3	3840.1	3844.3
37.5°	4079.0	4072.8	4039.2	3997.3	3995.2	4037.1	3972.1	3970.0	4041.3	4089.5	4095.8
40°	4378.8	4385.1	4343.2	4303.3	4282.4	4315.9	4265.6	4284.5	4353.6	4408.1	4403.9
42.5°	4800.1	4777.1	4712.1	4674.3	4651.3	4638.7	4626.1	4655.5	4733.0	4791.7	4837.8
45°	5292.7	5284.3	5202.6	5156.4	5106.1	5087.3	5083.1	5135.5	5229.8	5301.1	5307.4
47.5°	5850.3	5831.4	5779.0	5730.8	5711.9	5688.9	5667.9	5707.7	5802.1	5852.4	5867.0
50°	6424.6	6428.8	6428.8	6420.4	6439.3	6443.5	6386.9	6401.5	6453.9	6449.8	6445.6
52.5°	7080.7	7103.7	7212.7	7223.2	7313.4	7374.1	7271.4	7210.6	7191.8	7078.6	7087.0
55°	7852.1	7873.0	8036.5	8200.0	8443.2	8545.9	8330.0	8141.3	8007.2	7835.3	7843.7
57.5°	8814.2	8824.7	8979.8	9294.2	9679.9	9920.9	9541.5	9168.4	8895.9	8732.4	8667.4
60°	9849.7	9860.1	10086.5	10470.1	11069.6	11363.0	10893.5	10283.5	9939.8	9690.3	9707.1
62.5°	11092.7	11134.6	11337.9	11866.1	12593.5	12922.6	12300.0	11484.6	11019.3	10709.1	10721.6
65°	12423.7	12495.0	12717.1	13297.8	13968.5	14322.8	13559.8	12618.6	12040.1	11660.7	11700.5
67.5°	13287.3	13350.2	13670.9	14312.3	15148.6	15442.1	14456.9	13360.6	12637.5	12184.7	12100.9
70°	13067.2	13119.6	13547.2	14456.9	15695.7	16066.7	14670.7	13251.7	12400.6	11878.7	11845.2
72.5°	11534.9	11425.9	12050.6	13356.5	15071.1	15693.6	13997.9	12103.0	11031.9	10495.3	10432.4
75°	7644.5	7881.4	8803.7	10342.2	12750.7	13522.0	11947.9	9717.6	8369.8	7923.3	7854.1
77.5°	2555.2	2737.5	3557.1	5862.8	8692.6	9851.7	8705.2	6355.4	4496.2	3622.1	3638.9
80°	677.0	668.7	865.7	1611.9	3756.2	5705.6	4372.5	2152.7	1178.0	853.1	809.1
82.5°	243.1	272.5	350.1	446.5	995.7	1773.3	1251.4	603.7	442.3	327.0	316.5
85°	106.9	104.8	150.9	178.2	249.4	331.2	293.5	255.7	224.3	148.8	138.3
87.5°	23.1	23.1	35.6	27.2	44.0	44.0	54.5	65.0	67.1	44.0	35.6
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)