

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: P457068

Luminaire Tested: **GALN-SA8B-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457068
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-SA8B-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34849 lumens
Efficiency: N/A
Efficacy: 107.2 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

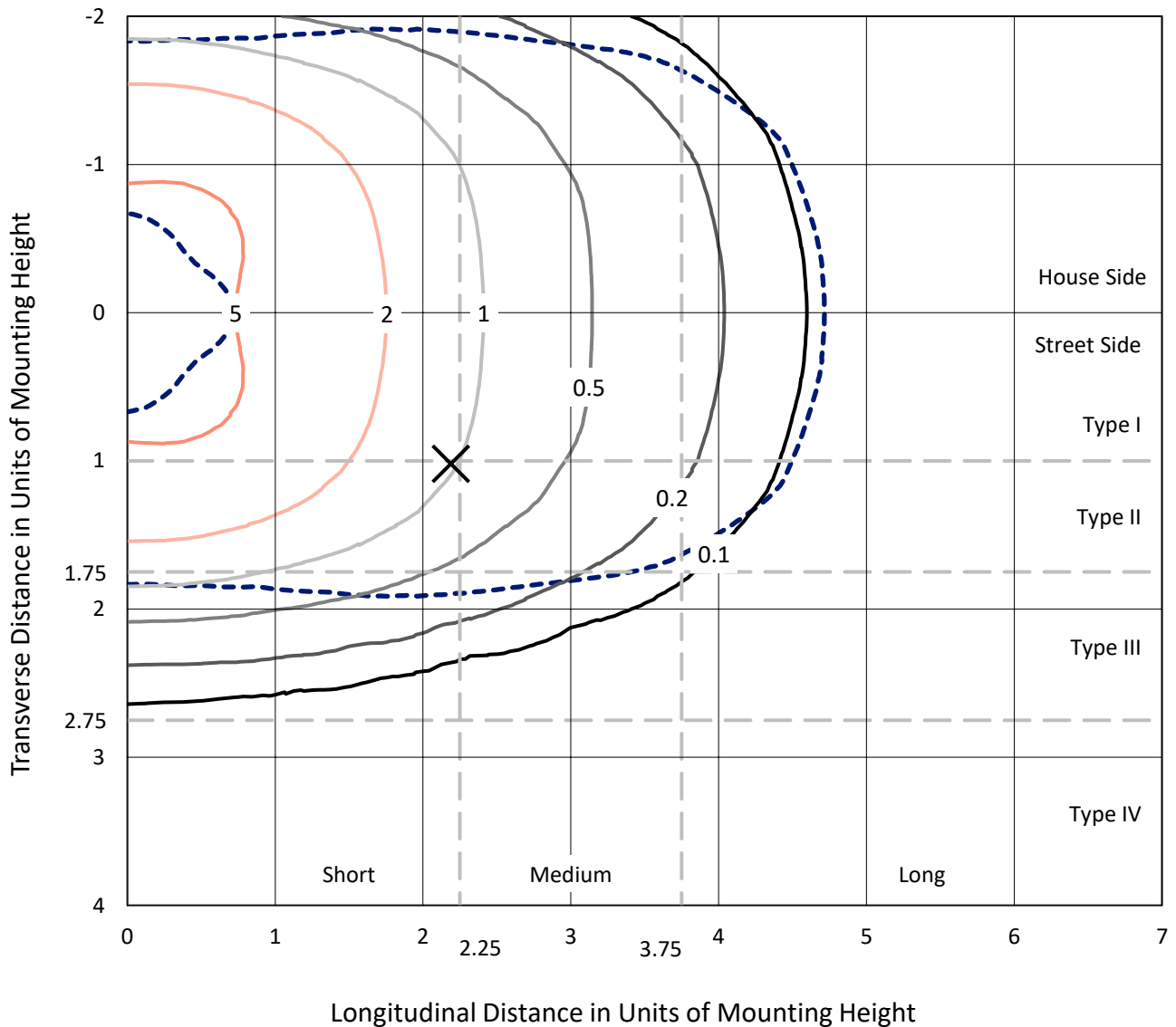
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

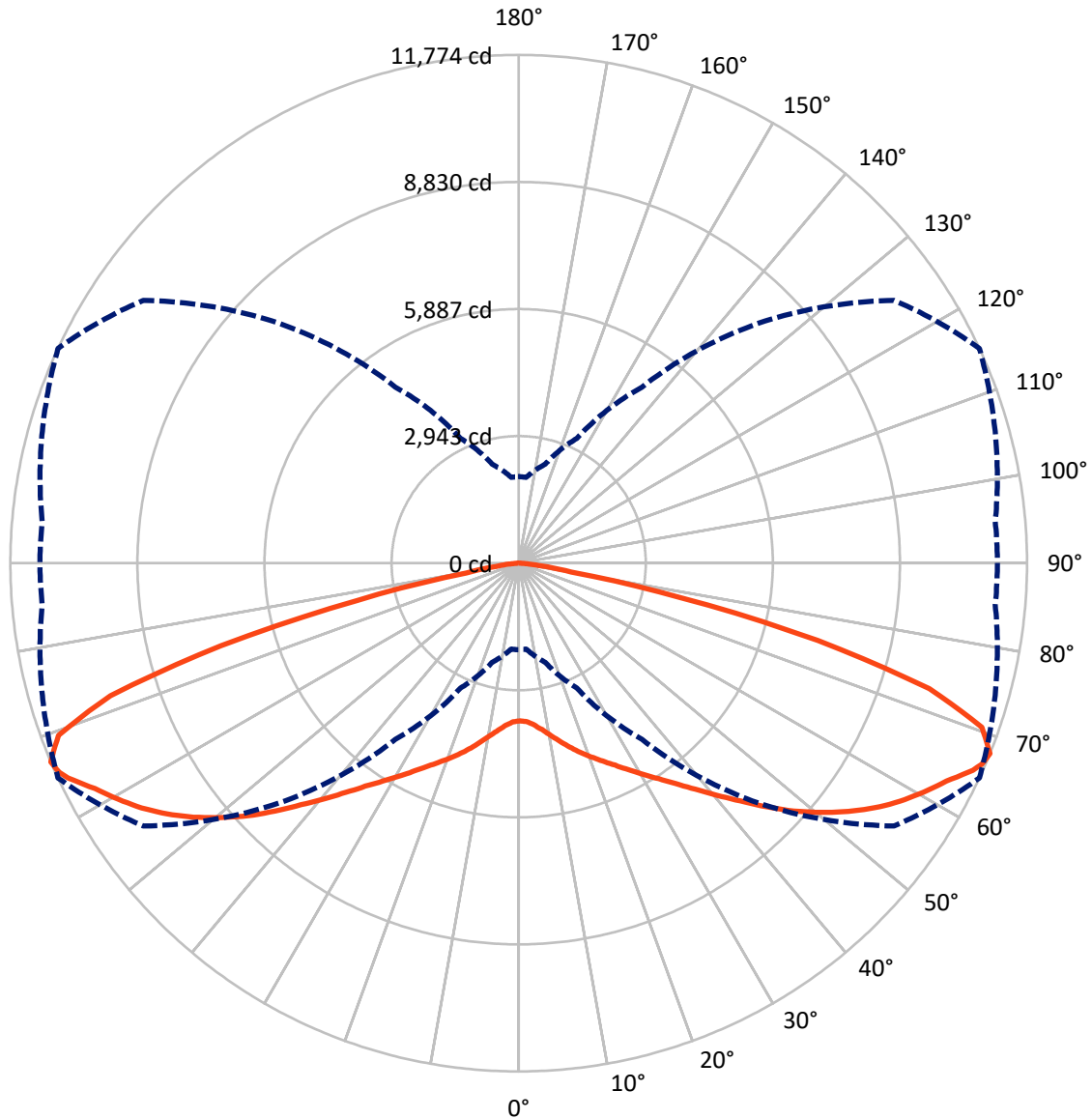
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	17424.5	0.0	17424.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17424.5	0.0	17424.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34849.0	0.0	34849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.0	1.0
10°-20°	1204.9	3.5
20°-30°	2356.9	6.8
30°-40°	4008.7	11.5
40°-50°	6344.6	18.2
50°-60°	8412.8	24.1
60°-70°	7935.8	22.8
70°-80°	3923.1	11.3
80°-90°	302.3	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°	34849.0	100.0
0°-180°	34849.0	100.0

Coefficient of Utilization



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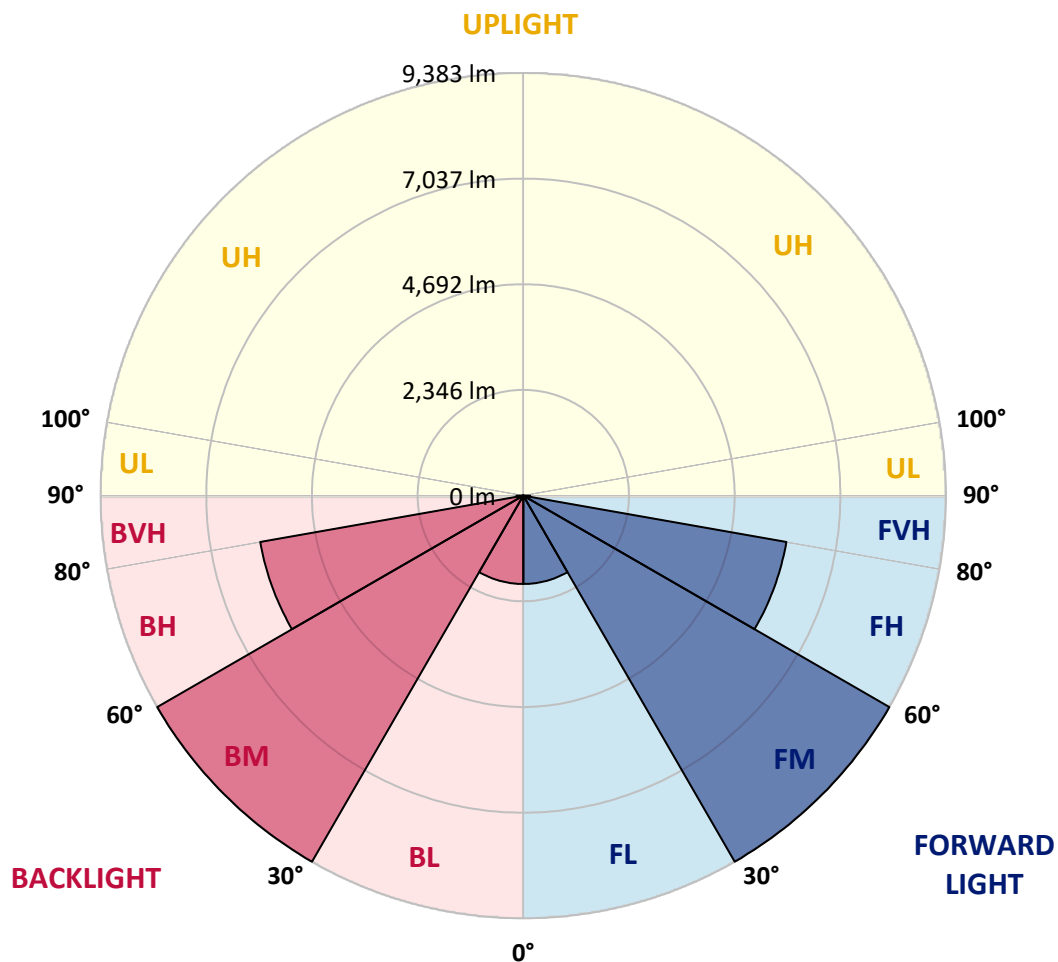
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1960.9	5.6			
FM	(30°-60°)	9383.0	26.9			
FH	(60°-80°)	5929.5	17.0			G3/7500
FVH	(80°-90°)	151.2	0.4			G2/225
BL	(0°-30°)	1960.9	5.6	B3/2500		
BM	(30°-60°)	9383.0	26.9	B5		
BH	(60°-80°)	5929.5	17.0	B5		G5
BVH	(80°-90°)	151.2	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°	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1	3650.1
2.5°	3631.5	3635.2	3638.9	3644.5	3652.0	3663.2	3670.7	3676.3	3691.2	3693.1	3691.2
5°	3618.4	3622.1	3631.5	3648.3	3672.5	3706.1	3732.3	3764.0	3788.3	3805.1	3801.4
7.5°	3616.5	3624.0	3638.9	3674.4	3721.1	3779.0	3838.7	3892.8	3939.5	3976.9	3971.3
10°	3646.4	3655.7	3680.0	3732.3	3805.1	3889.1	3973.1	4053.4	4120.6	4169.2	4186.0
12.5°	3696.8	3704.3	3749.1	3827.5	3932.1	4036.6	4131.8	4230.8	4324.1	4406.3	4406.3
15°	3784.6	3797.6	3853.6	3967.5	4096.4	4217.7	4314.8	4419.4	4520.2	4613.5	4641.5
17.5°	3905.9	3924.6	4008.6	4154.2	4318.5	4430.6	4522.0	4607.9	4695.7	4785.3	4798.4
20°	4072.1	4090.8	4202.8	4378.3	4572.5	4706.9	4768.5	4789.0	4832.0	4917.9	4929.1
22.5°	4298.0	4316.7	4441.8	4639.7	4856.3	5001.9	5028.0	4979.5	4968.3	5035.5	5043.0
25°	4553.8	4570.6	4714.4	4927.2	5151.3	5310.0	5302.5	5183.0	5115.8	5156.9	5168.1
27.5°	4841.3	4865.6	5011.2	5231.5	5474.3	5614.3	5591.9	5418.2	5274.5	5267.0	5270.7
30°	5209.1	5235.3	5373.4	5584.4	5823.4	5952.2	5905.5	5672.2	5450.0	5375.3	5375.3
32.5°	5597.5	5662.8	5802.9	6023.2	6209.9	6303.2	6232.3	5952.2	5657.2	5552.7	5547.1
35°	6103.5	6138.9	6277.1	6491.8	6631.8	6704.7	6568.4	6267.8	5928.0	5804.7	5787.9
37.5°	6598.2	6628.1	6788.7	6994.1	7164.0	7160.2	6975.4	6643.0	6264.0	6125.9	6114.7
40°	7104.2	7135.9	7318.9	7507.5	7677.4	7662.5	7438.4	7066.9	6663.6	6508.6	6538.5
42.5°	7543.0	7578.4	7785.7	8054.5	8207.6	8203.9	7944.4	7526.2	7106.1	6967.9	6994.1
45°	7942.5	7974.3	8215.1	8523.2	8747.2	8775.2	8491.4	8048.9	7617.7	7440.3	7447.7
47.5°	8224.5	8284.2	8536.3	8889.1	9193.5	9292.4	9014.2	8581.1	8084.4	7899.6	7910.8
50°	8439.2	8476.5	8751.0	9152.4	9537.0	9742.4	9518.3	9074.0	8551.2	8355.1	8381.3
52.5°	8465.3	8510.1	8808.8	9271.9	9764.8	10076.6	9966.4	9555.7	9027.3	8825.6	8881.7
55°	8252.5	8278.6	8635.2	9197.2	9854.4	10324.9	10352.9	10003.8	9481.0	9327.9	9365.2
57.5°	7645.7	7712.9	8164.7	8848.1	9731.2	10457.5	10642.3	10410.8	9940.3	9789.1	9848.8
60°	6650.5	6717.7	7171.4	8037.7	9266.3	10395.9	10881.3	10771.1	10356.6	10235.3	10267.0
62.5°	5211.0	5205.4	5767.4	6829.7	8342.1	10093.4	11058.7	11118.4	10767.4	10614.3	10662.8
65°	3377.5	3394.3	3937.7	5082.2	6947.4	9324.2	11097.9	11560.9	11170.7	10939.2	10974.6
66°	2716.6	2767.0	3228.2	4283.1	6236.0	8820.0	10980.2	11691.6	11293.9	11013.9	11030.7
67.5°	2005.2	1995.9	2374.9	3189.0	4979.5	7862.2	10612.4	11773.8	11433.9	11081.1	11088.5
70°	1144.5	1142.6	1277.1	1751.3	2927.6	5535.9	8945.1	11379.8	11717.7	11323.8	11303.3
72.5°	836.4	830.8	849.5	967.1	1428.3	2795.0	6170.7	9945.9	11572.1	11284.6	11226.7
75°	702.0	698.3	694.6	709.5	801.0	1265.9	3274.8	7154.6	10041.1	10591.9	10532.2
77.5°	573.2	573.2	575.1	571.3	575.1	666.5	1357.4	3835.0	6114.7	6826.0	6992.2
80°	448.1	446.2	478.0	464.9	435.0	427.6	601.2	1234.1	2029.5	2018.3	1665.4
82.5°	330.5	308.1	364.1	354.7	321.1	272.6	351.0	526.5	677.7	440.6	326.7
85°	209.1	207.2	257.7	235.3	196.0	128.8	168.0	225.9	280.1	169.9	138.2
87.5°	37.3	35.5	82.2	59.7	59.7	37.3	46.7	61.6	91.5	63.5	46.7
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)