

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: P648148

Luminaire Tested: **GALN-SA9A-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648148
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-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33492 lumens
Efficiency: N/A
Efficacy: 122.2 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

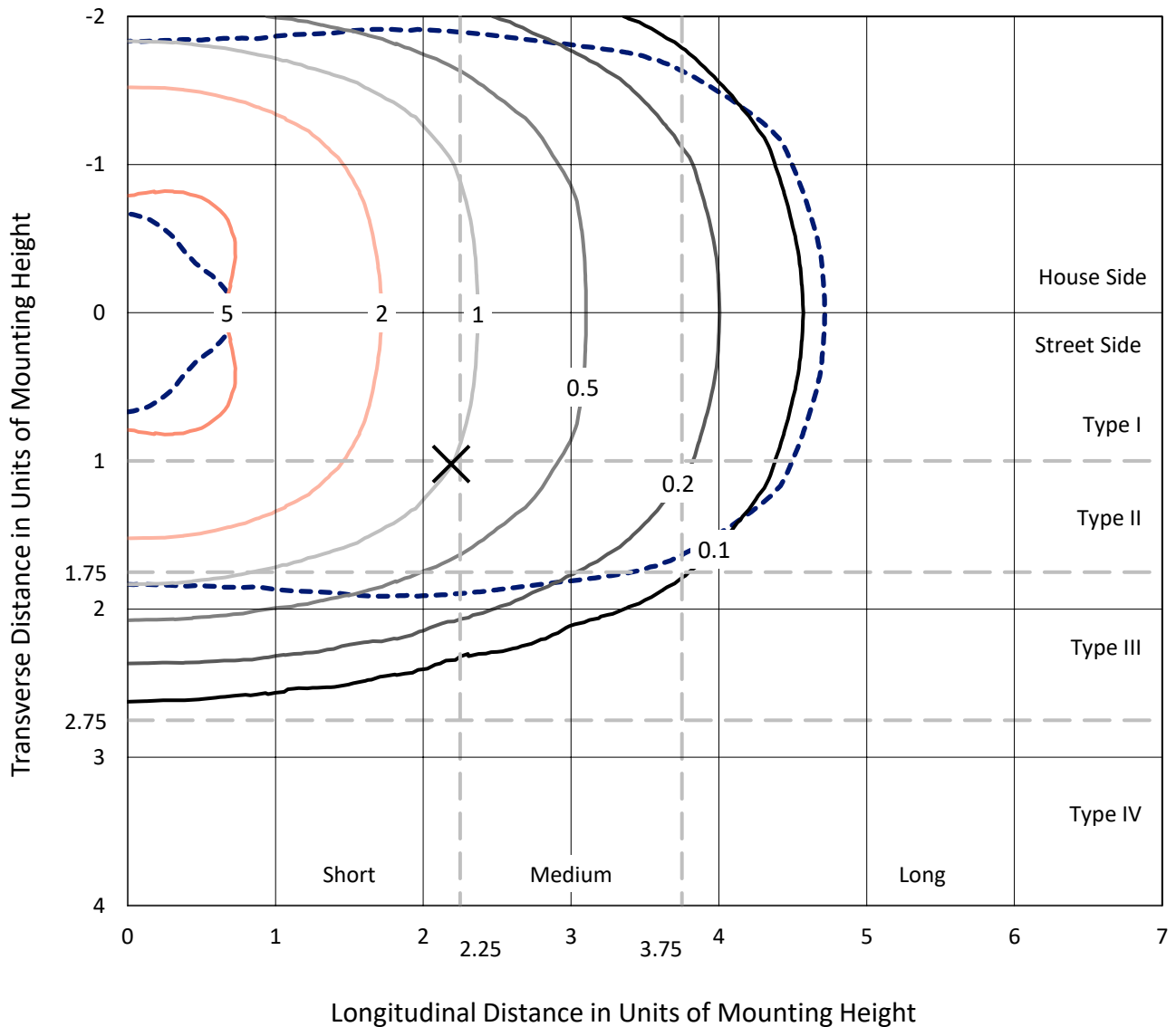
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

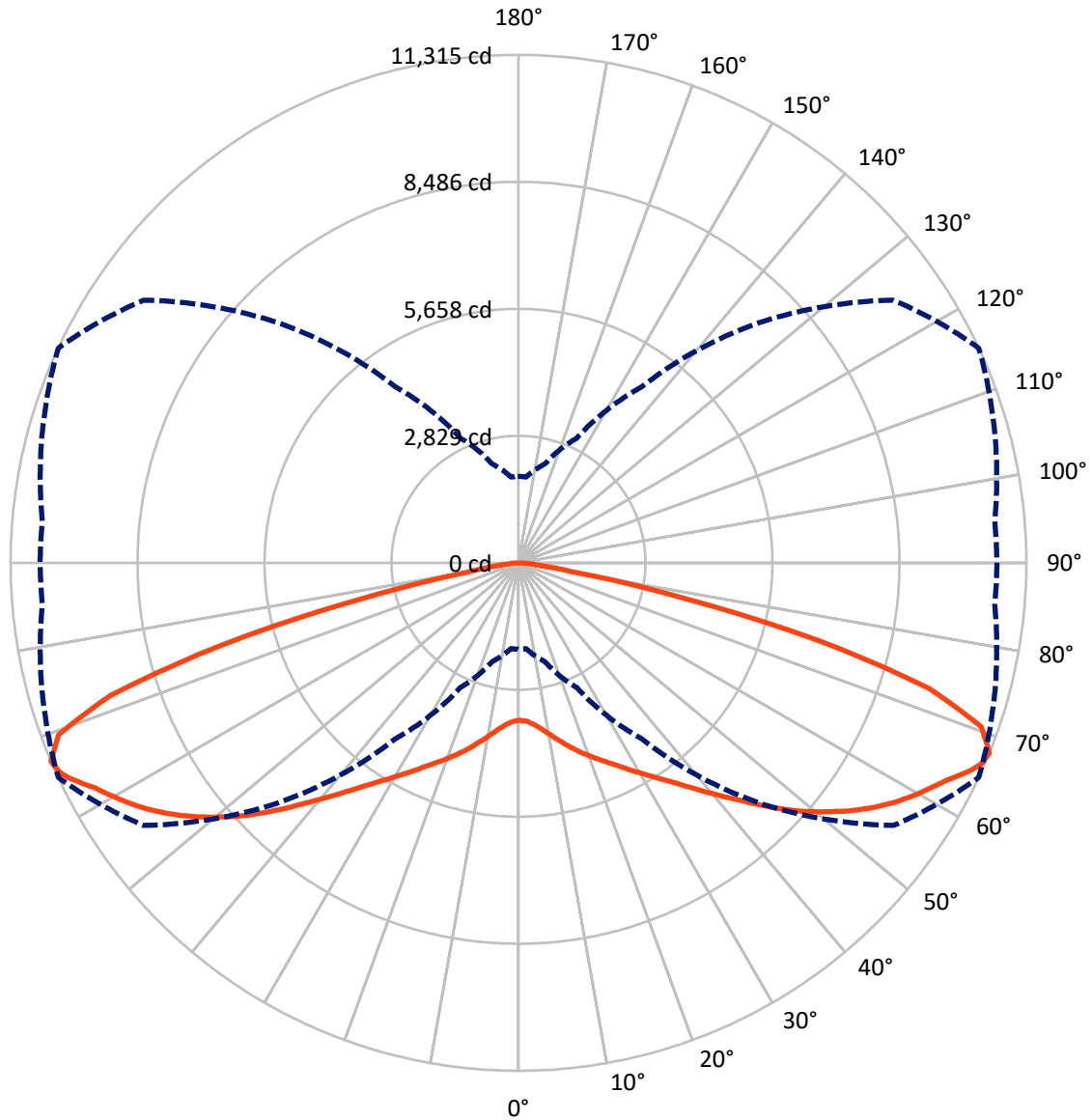
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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CATALOG NUMBER: GALN-SA9A-835-U-RW

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	16746.0	0.0	16746.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16746.0	0.0	16746.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33492.0	0.0	33492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.0	1.0
10°-20°	1158.0	3.5
20°-30°	2265.1	6.8
30°-40°	3852.6	11.5
40°-50°	6097.5	18.2
50°-60°	8085.2	24.1
60°-70°	7626.8	22.8
70°-80°	3770.3	11.3
80°-90°	290.6	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°	33492.0	100.0
0°-180°	33492.0	100.0

Coefficient of Utilization

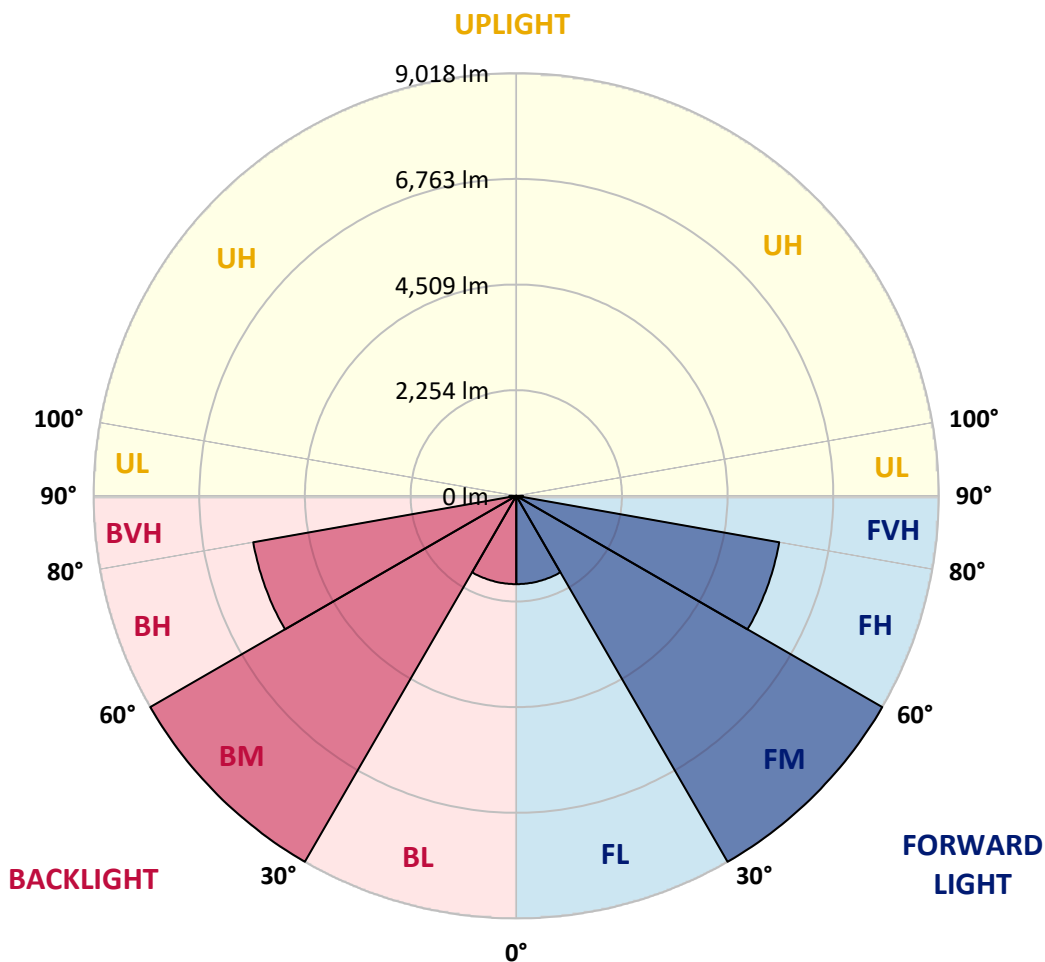


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1884.5	5.6			
FM	(30°-60°)	9017.6	26.9			
FH	(60°-80°)	5698.6	17.0			G3/7500
FVH	(80°-90°)	145.3	0.4			G2/225
BL	(0°-30°)	1884.5	5.6	B3/2500		
BM	(30°-60°)	9017.6	26.9	B5		
BH	(60°-80°)	5698.6	17.0	B5		G5
BVH	(80°-90°)	145.3	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°	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0	3508.0
2.5°	3490.1	3493.7	3497.2	3502.6	3509.8	3520.5	3527.7	3533.1	3547.5	3549.3	3547.5
5°	3477.5	3481.1	3490.1	3506.2	3529.5	3561.8	3586.9	3617.5	3640.8	3656.9	3653.3
7.5°	3475.7	3482.9	3497.2	3531.3	3576.2	3631.8	3689.3	3741.3	3786.1	3822.0	3816.7
10°	3504.4	3513.4	3536.7	3586.9	3656.9	3737.7	3818.5	3895.6	3960.2	4006.8	4023.0
12.5°	3552.9	3560.1	3603.1	3678.5	3778.9	3879.5	3970.9	4066.0	4155.8	4234.7	4234.7
15°	3637.2	3649.7	3703.6	3813.1	3936.8	4053.5	4146.8	4247.3	4344.2	4433.9	4460.8
17.5°	3753.9	3771.8	3852.5	3992.4	4150.4	4258.0	4346.0	4428.5	4512.8	4599.0	4611.6
20°	3913.5	3931.4	4039.1	4207.8	4394.4	4523.6	4582.8	4602.6	4643.8	4726.3	4737.2
22.5°	4130.6	4148.6	4268.8	4459.0	4667.1	4807.2	4832.2	4785.6	4774.8	4839.4	4846.6
25°	4376.5	4392.6	4530.8	4735.3	4950.7	5103.2	5096.0	4981.2	4916.6	4956.1	4966.8
27.5°	4652.8	4676.2	4816.1	5027.8	5261.1	5395.7	5374.1	5207.3	5069.1	5061.9	5065.5
30°	5006.3	5031.4	5164.2	5367.0	5596.6	5720.4	5675.6	5451.3	5237.8	5166.0	5166.0
32.5°	5379.5	5442.3	5576.9	5788.6	5968.1	6057.8	5989.6	5720.4	5436.9	5336.5	5331.1
35°	5865.8	5899.9	6032.7	6239.0	6373.6	6443.6	6312.6	6023.7	5697.1	5578.7	5562.6
37.5°	6341.3	6370.0	6524.3	6721.7	6885.0	6881.4	6703.7	6384.3	6020.1	5887.3	5876.6
40°	6827.6	6858.1	7033.9	7215.2	7378.4	7364.1	7148.8	6791.7	6404.1	6255.2	6283.9
42.5°	7249.2	7283.4	7482.5	7740.9	7888.0	7884.5	7635.0	7233.1	6829.4	6696.6	6721.7
45°	7633.2	7663.8	7895.2	8191.3	8406.6	8433.5	8160.8	7735.6	7321.0	7150.6	7157.7
47.5°	7904.2	7961.6	8203.9	8543.0	8835.5	8930.6	8663.2	8246.9	7769.6	7592.0	7602.8
50°	8110.5	8146.4	8410.2	8796.0	9165.6	9363.0	9147.7	8720.7	8218.2	8029.8	8055.0
52.5°	8135.7	8178.7	8465.9	8910.9	9384.6	9684.2	9578.4	9183.6	8675.8	8482.0	8535.8
55°	7931.1	7956.2	8298.9	8839.1	9470.7	9922.9	9949.8	9614.2	9111.8	8964.6	9000.6
57.5°	7348.0	7412.6	7846.8	8503.5	9352.2	10050.3	10227.9	10005.4	9553.2	9407.9	9465.3
60°	6391.6	6456.1	6892.2	7724.8	8905.5	9991.1	10457.6	10351.7	9953.3	9836.8	9867.2
62.5°	5008.1	5002.7	5542.8	6563.8	8017.2	9700.4	10628.1	10685.4	10348.1	10201.0	10247.7
65°	3246.0	3262.1	3784.3	4884.3	6676.9	8961.1	10665.7	11110.8	10735.7	10513.2	10547.3
66°	2610.8	2659.2	3102.5	4116.3	5993.2	8476.6	10552.7	11236.4	10854.2	10585.0	10601.1
67.5°	1927.1	1918.2	2282.4	3064.8	4785.6	7556.1	10199.2	11315.3	10988.7	10649.6	10656.8
70°	1100.0	1098.2	1227.4	1683.1	2813.6	5320.3	8596.9	10936.7	11261.5	10882.8	10863.1
72.5°	803.9	798.5	816.4	929.5	1372.7	2686.2	5930.4	9558.6	11121.5	10845.2	10789.6
75°	674.7	671.1	667.5	681.8	769.8	1216.5	3147.3	6876.0	9650.2	10179.5	10122.1
77.5°	550.8	550.8	552.6	549.0	552.6	640.6	1304.5	3685.7	5876.6	6560.2	6719.9
80°	430.6	428.8	459.4	446.8	418.1	410.9	577.8	1186.1	1950.5	1939.7	1600.6
82.5°	317.6	296.1	349.9	340.9	308.7	262.0	337.3	506.0	651.4	423.4	314.0
85°	201.0	199.2	247.6	226.1	188.4	123.8	161.5	217.1	269.1	163.3	132.8
87.5°	35.9	34.1	78.9	57.4	57.4	35.9	44.9	59.2	87.9	61.0	44.9
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)