

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: P648093

Luminaire Tested: **GALN-SA8A-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648093
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-SA8A-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 29832.3 lumens
Efficiency: N/A
Efficacy: 122.3 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

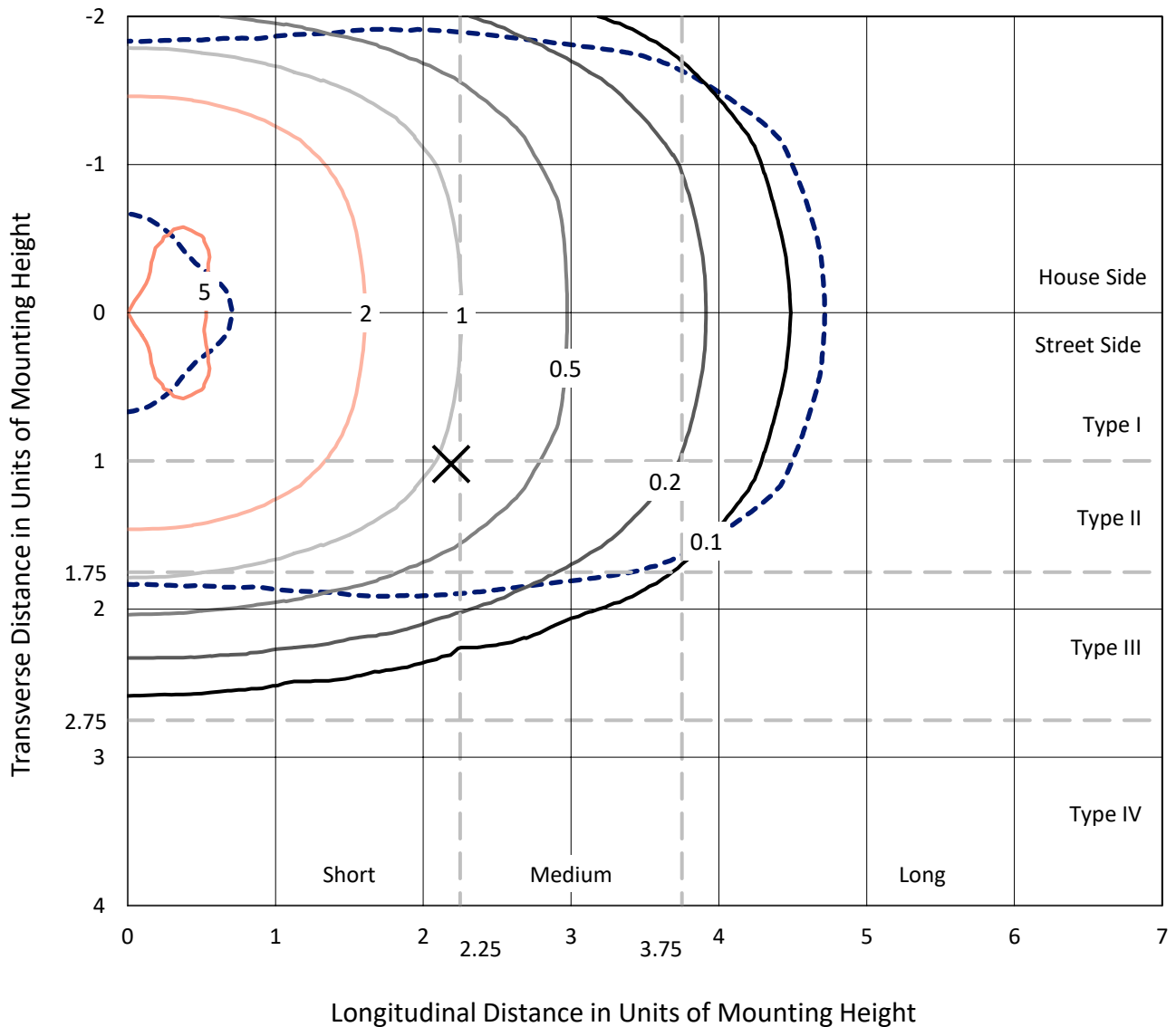
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

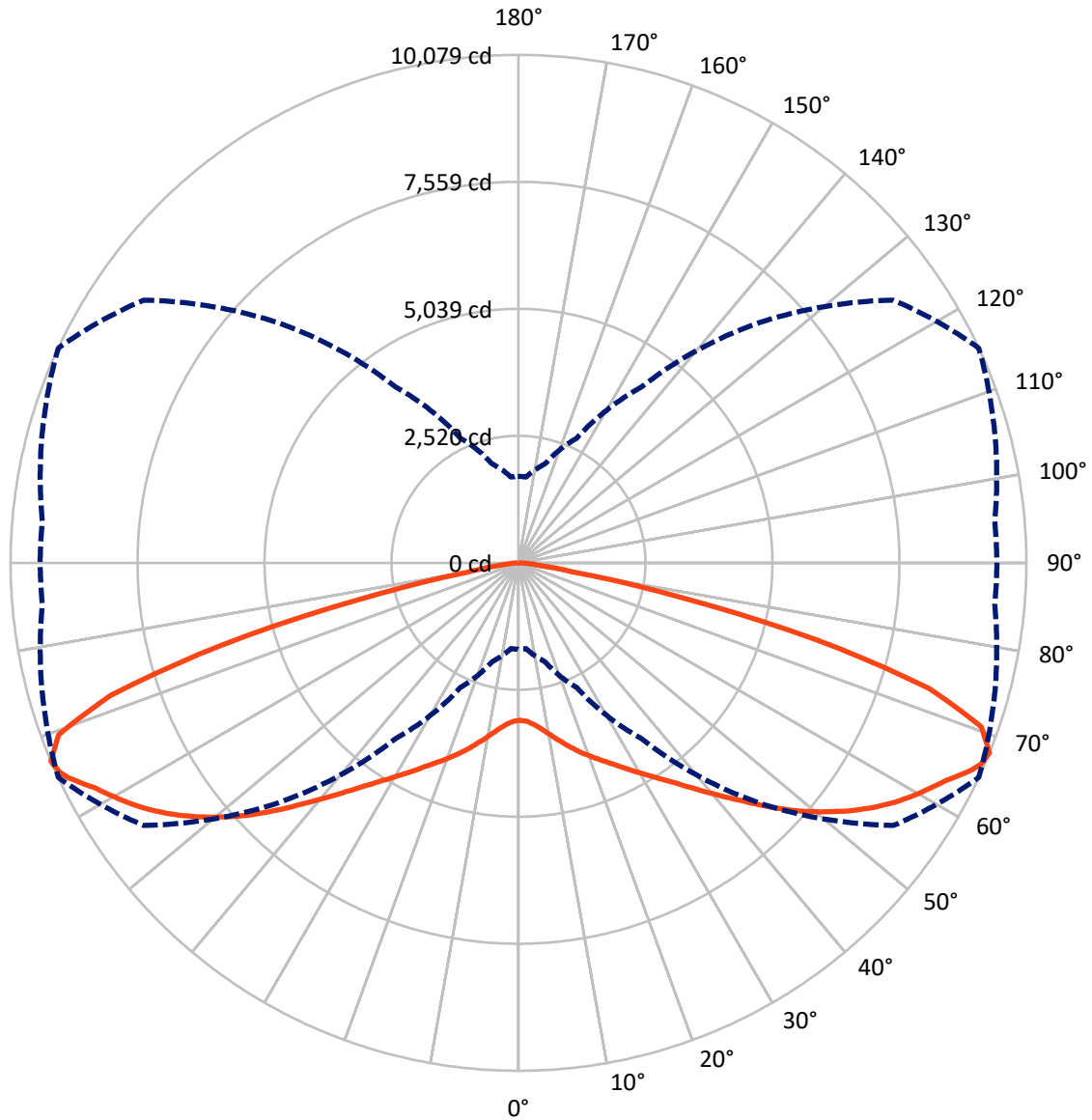
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	14916.2	0.0	14916.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14916.2	0.0	14916.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	29832.3	0.0	29832.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	1.0
10°-20°	1031.4	3.5
20°-30°	2017.6	6.8
30°-40°	3431.6	11.5
40°-50°	5431.2	18.2
50°-60°	7201.7	24.1
60°-70°	6793.4	22.8
70°-80°	3358.3	11.3
80°-90°	258.8	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°	29832.3	100.0
0°-180°	29832.3	100.0

Coefficient of Utilization



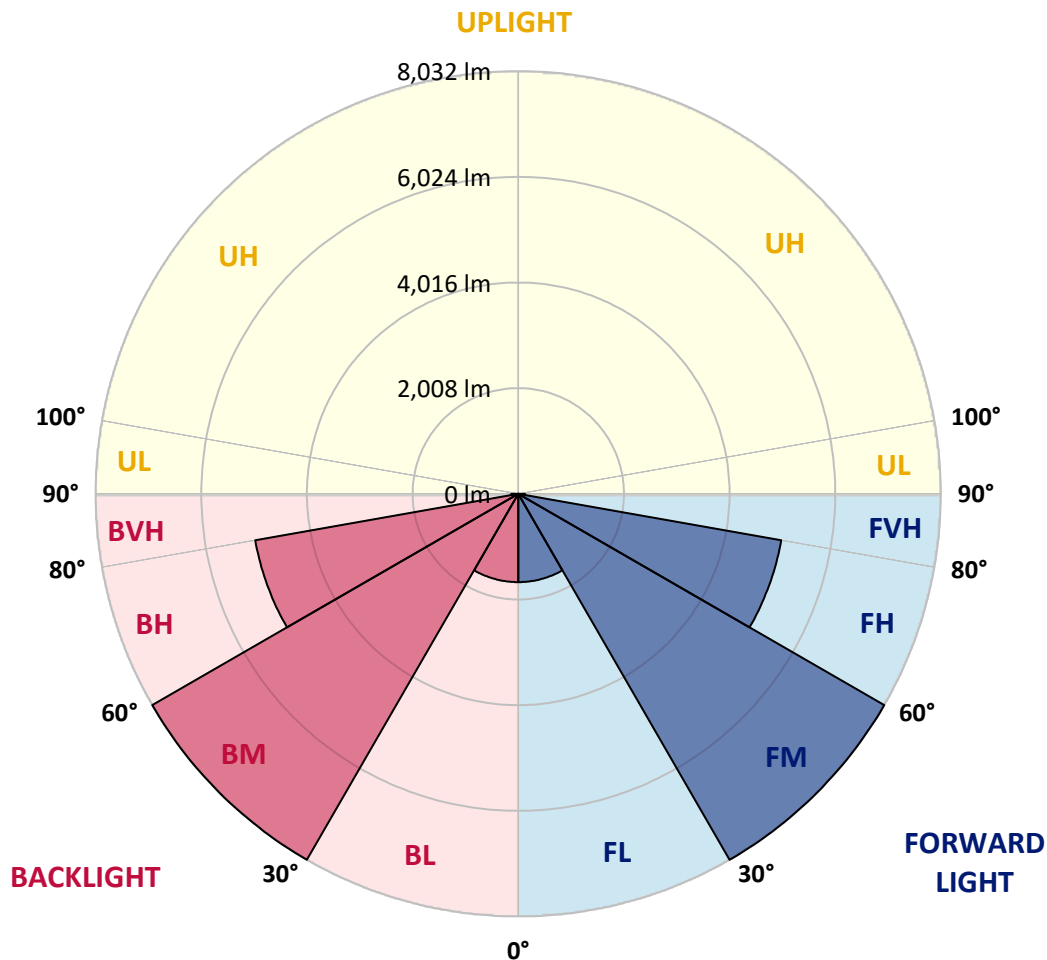
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1678.6	5.6			
FM (30°-60°)	8032.3	26.9			
FH (60°-80°)	5075.9	17.0			G3/7500
FVH (80°-90°)	129.4	0.4			G2/225
BL (0°-30°)	1678.6	5.6	B3/2500		
BM (30°-60°)	8032.3	26.9	B4/8500		
BH (60°-80°)	5075.9	17.0	B5		G5
BVH (80°-90°)	129.4	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°	3124.6	3124.6	3124.6	3124.6	3124.6	3124.6	3124.6	3124.6	3124.6	3124.6	3124.6
2.5°	3108.7	3111.9	3115.1	3119.9	3126.3	3135.8	3142.3	3147.0	3159.8	3161.4	3159.8
5°	3097.5	3100.7	3108.7	3123.1	3143.8	3172.6	3195.0	3222.2	3243.0	3257.4	3254.1
7.5°	3095.9	3102.3	3115.1	3145.5	3185.4	3235.0	3286.1	3332.4	3372.4	3404.4	3399.6
10°	3121.5	3129.5	3150.2	3195.0	3257.4	3329.2	3401.2	3469.9	3527.4	3569.0	3583.4
12.5°	3164.7	3171.0	3209.4	3276.5	3366.0	3455.5	3537.0	3621.8	3701.6	3771.9	3771.9
15°	3239.7	3250.9	3298.9	3396.4	3506.7	3610.6	3693.6	3783.1	3869.5	3949.4	3973.3
17.5°	3343.6	3359.6	3431.6	3556.2	3696.9	3792.8	3871.1	3944.6	4019.7	4096.4	4107.6
20°	3485.9	3501.9	3597.7	3748.0	3914.2	4029.3	4082.0	4099.6	4136.4	4209.9	4219.5
22.5°	3679.3	3695.3	3802.3	3971.8	4157.2	4281.8	4304.2	4262.7	4253.1	4310.6	4317.0
25°	3898.2	3912.7	4035.7	4217.9	4409.7	4545.5	4539.1	4436.9	4379.3	4414.5	4424.1
27.5°	4144.4	4165.2	4289.8	4478.4	4686.2	4806.1	4786.9	4638.3	4515.2	4508.8	4512.0
30°	4459.3	4481.7	4599.9	4780.5	4985.1	5095.4	5055.4	4855.6	4665.4	4601.5	4601.5
32.5°	4791.7	4847.6	4967.5	5156.1	5315.9	5395.9	5335.1	5095.4	4842.9	4753.4	4748.5
35°	5224.8	5255.2	5373.5	5557.3	5677.1	5739.5	5622.8	5365.5	5074.6	4969.1	4954.7
37.5°	5648.4	5673.9	5811.4	5987.2	6132.7	6129.5	5971.2	5686.8	5362.3	5244.0	5234.4
40°	6081.5	6108.7	6265.3	6426.8	6572.2	6559.4	6367.6	6049.5	5704.3	5571.7	5597.2
42.5°	6457.1	6487.5	6664.9	6895.0	7026.1	7022.9	6800.7	6442.8	6083.1	5964.8	5987.2
45°	6799.2	6826.4	7032.5	7296.2	7488.0	7512.0	7269.1	6890.2	6521.1	6369.2	6375.6
47.5°	7040.5	7091.6	7307.4	7609.5	7870.0	7954.7	7716.5	7345.8	6920.6	6762.4	6772.0
50°	7224.3	7256.3	7491.2	7834.9	8164.1	8339.9	8148.1	7767.8	7320.2	7152.4	7174.8
52.5°	7246.7	7285.0	7540.8	7937.1	8359.1	8626.0	8531.7	8180.1	7727.7	7555.2	7603.1
55°	7064.5	7086.9	7392.1	7873.2	8435.8	8838.6	8862.5	8563.7	8116.2	7985.1	8017.1
57.5°	6545.0	6602.6	6989.4	7574.4	8330.3	8952.0	9110.3	8912.1	8509.3	8379.9	8431.0
60°	5693.1	5750.7	6139.0	6880.7	7932.3	8899.3	9314.9	9220.6	8865.8	8761.8	8789.0
62.5°	4460.8	4456.1	4937.1	5846.6	7141.2	8640.4	9466.7	9517.8	9217.4	9086.3	9127.9
65°	2891.3	2905.7	3370.8	4350.6	5947.3	7981.9	9500.3	9896.7	9562.6	9364.4	9394.8
66°	2325.5	2368.7	2763.4	3666.5	5338.3	7550.4	9399.6	10008.5	9668.1	9428.3	9442.7
67.5°	1716.6	1708.6	2033.1	2729.9	4262.7	6730.4	9084.8	10078.9	9788.0	9485.9	9492.3
70°	979.8	978.1	1093.2	1499.2	2506.1	4739.0	7657.4	9741.6	10030.9	9693.7	9676.1
72.5°	716.1	711.3	727.3	827.9	1222.7	2392.6	5282.4	8514.1	9906.3	9660.1	9610.5
75°	601.0	597.7	594.5	607.4	685.7	1083.7	2803.4	6124.7	8595.6	9067.1	9016.0
77.5°	490.7	490.7	492.3	489.1	492.3	570.6	1162.0	3282.9	5234.4	5843.4	5985.6
80°	383.6	382.0	409.2	398.0	372.4	366.0	514.7	1056.5	1737.3	1727.8	1425.7
82.5°	282.9	263.7	311.6	303.6	274.9	233.3	300.5	450.7	580.2	377.2	279.7
85°	179.0	177.4	220.6	201.4	167.8	110.2	143.8	193.4	239.8	145.5	118.3
87.5°	31.9	30.4	70.3	51.1	51.1	31.9	39.9	52.8	78.3	54.3	39.9
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)