

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: P647096

Luminaire Tested: **GALN-SA8C-835-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647096
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-SA8C-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46523.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

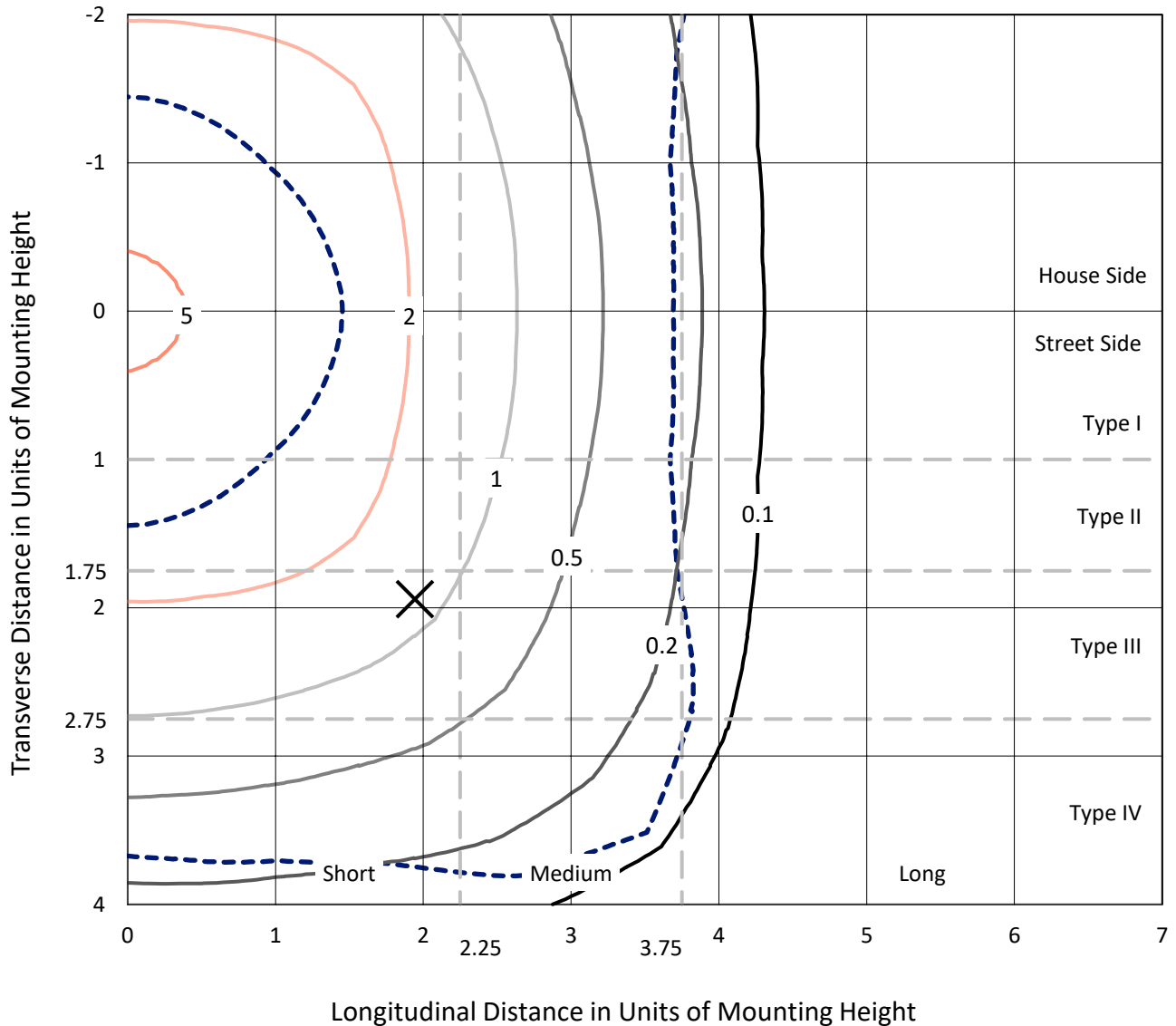
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

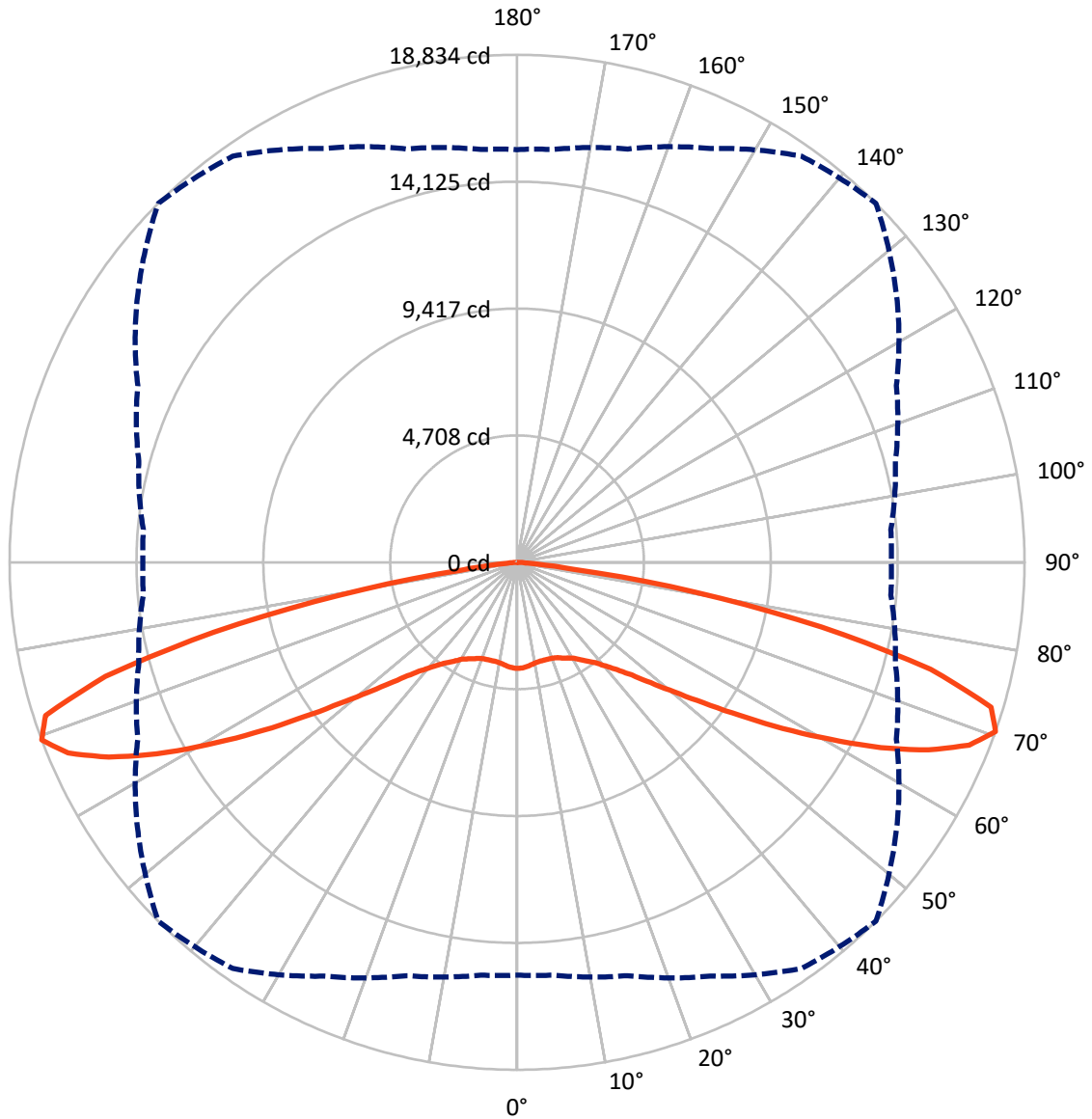
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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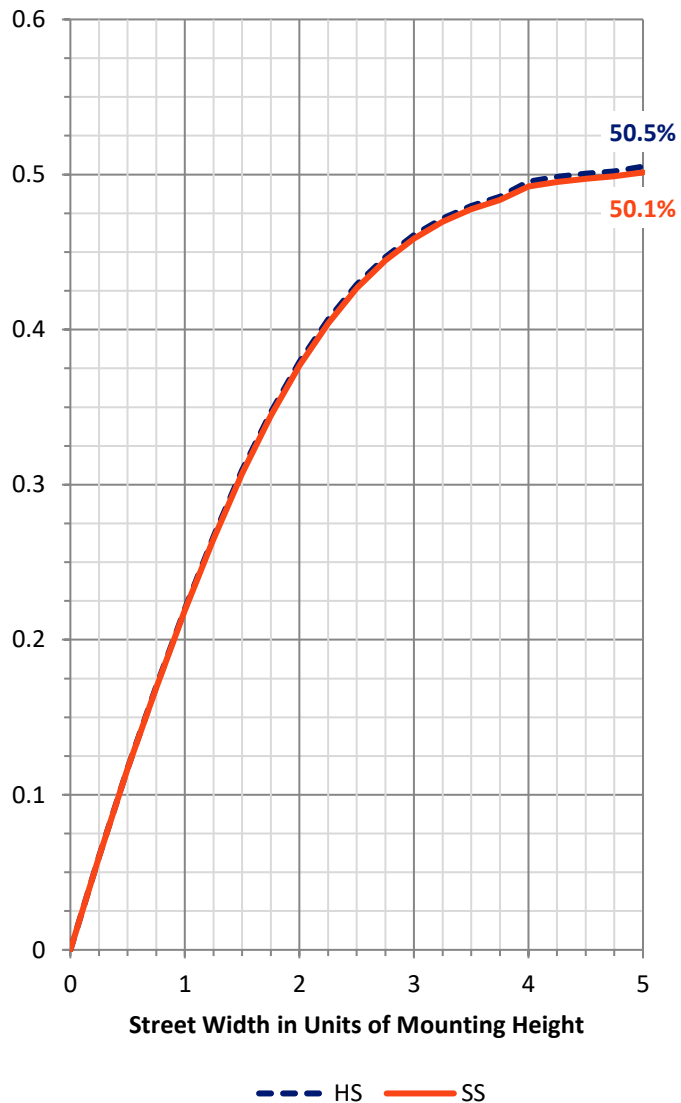
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23261.7	0.0	23261.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23261.7	0.0	23261.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	46523.5	0.0	46523.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.3	0.8
10°-20°	1078.4	2.3
20°-30°	1837.3	3.9
30°-40°	2847.8	6.1
40°-50°	4793.2	10.3
50°-60°	8721.0	18.7
60°-70°	14764.5	31.7
70°-80°	11428.3	24.6
80°-90°	684.8	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°	46523.5	100.0
0°-180°	46523.5	100.0

Coefficient of Utilization

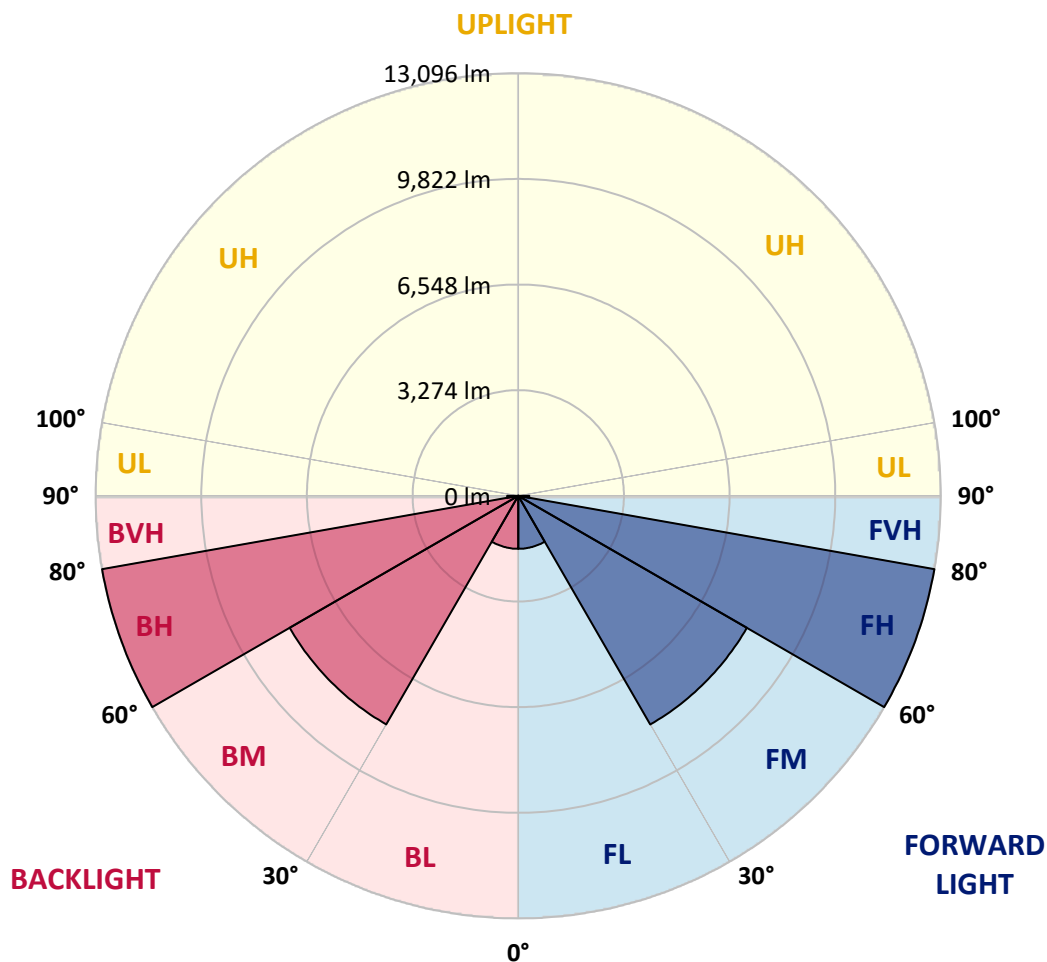


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1642.0	3.5			
FM (30°-60°)	8181.0	17.6			
FH (60°-80°)	13096.4	28.1			G5
FVH (80°-90°)	342.4	0.7			G3/500
BL (0°-30°)	1642.0	3.5	B3/2500		
BM (30°-60°)	8181.0	17.6	B4/8500		
BH (60°-80°)	13096.4	28.1	B5		G5
BVH (80°-90°)	342.4	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-G5
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3938.8	3938.8	3938.8	3938.8	3938.8	3938.8	3938.8	3938.8	3938.8	3938.8	3938.8
2.5°	3928.9	3931.4	3931.4	3926.5	3924.0	3924.0	3921.6	3921.6	3928.9	3931.4	3933.9
5°	3894.6	3894.6	3894.6	3892.1	3887.2	3887.2	3882.3	3882.3	3884.7	3892.1	3887.2
7.5°	3847.9	3852.8	3852.8	3843.0	3835.6	3835.6	3833.1	3835.6	3838.0	3845.4	3843.0
10°	3833.1	3835.6	3823.3	3806.1	3793.8	3786.4	3788.9	3793.8	3806.1	3811.0	3813.4
12.5°	3843.0	3843.0	3820.8	3796.3	3774.1	3764.4	3761.8	3779.1	3801.2	3816.0	3820.8
15°	3855.3	3850.3	3823.3	3791.4	3769.2	3766.8	3764.4	3776.6	3808.6	3838.0	3840.5
17.5°	3862.6	3860.2	3825.7	3786.4	3774.1	3774.1	3771.7	3781.5	3816.0	3852.8	3855.3
20°	3887.2	3879.8	3840.5	3798.7	3788.9	3793.8	3786.4	3798.7	3835.6	3879.8	3889.6
22.5°	3936.3	3928.9	3889.6	3847.9	3843.0	3843.0	3840.5	3852.8	3892.1	3938.8	3946.2
25°	3995.3	3987.9	3951.1	3921.6	3926.5	3936.3	3931.4	3933.9	3965.8	4005.1	4017.4
27.5°	4073.9	4061.7	4029.7	4005.1	4019.8	4019.8	4019.8	4017.4	4037.1	4073.9	4086.2
30°	4169.8	4164.9	4130.4	4128.0	4140.3	4128.0	4128.0	4130.4	4132.9	4167.3	4179.6
32.5°	4295.1	4285.2	4268.1	4263.1	4297.5	4307.4	4273.0	4241.0	4258.2	4292.6	4300.0
35°	4501.5	4486.7	4462.2	4435.1	4462.2	4508.8	4435.1	4410.6	4454.8	4501.5	4506.4
37.5°	4781.5	4774.2	4734.9	4685.8	4683.3	4732.5	4656.3	4653.8	4737.4	4793.8	4801.3
40°	5133.0	5140.3	5091.1	5044.5	5019.9	5059.3	5000.2	5022.4	5103.4	5167.3	5162.5
42.5°	5626.9	5599.8	5523.7	5479.4	5452.3	5437.6	5422.9	5457.3	5548.2	5617.0	5671.0
45°	6204.3	6194.5	6098.6	6044.5	5985.6	5963.5	5958.6	6019.9	6130.6	6214.1	6221.5
47.5°	6857.8	6835.7	6774.3	6717.8	6695.7	6668.7	6644.1	6690.8	6801.4	6860.3	6877.5
50°	7531.1	7536.1	7536.1	7526.2	7548.3	7553.2	7486.9	7504.1	7565.5	7560.6	7555.7
52.5°	8300.2	8327.2	8455.0	8467.3	8572.9	8644.2	8523.8	8452.6	8430.4	8297.8	8307.6
55°	9204.4	9229.0	9420.7	9612.3	9897.4	10017.7	9764.6	9543.5	9386.2	9184.7	9194.6
57.5°	10332.2	10344.5	10526.3	10894.9	11347.1	11629.6	11184.8	10747.5	10428.1	10236.4	10160.2
60°	11546.0	11558.3	11823.7	12273.4	12976.1	13320.1	12769.7	12054.7	11651.7	11359.3	11378.9
62.5°	13003.1	13052.3	13290.6	13909.8	14762.4	15148.2	14418.5	13462.7	12917.2	12553.5	12568.2
65°	14563.4	14647.0	14907.5	15588.0	16374.3	16789.6	15895.2	14792.0	14113.8	13669.1	13715.7
67.5°	15575.7	15649.5	16025.4	16777.3	17757.7	18101.7	16946.9	15661.8	14814.0	14283.3	14185.1
70°	15317.8	15379.2	15880.4	16946.9	18399.0	18833.9	17197.5	15534.0	14536.4	13924.6	13885.3
72.5°	13521.6	13393.8	14126.0	15656.9	17666.8	18396.6	16408.7	14187.5	12931.9	12302.9	12229.1
75°	8961.2	9238.9	10319.9	12123.5	14946.8	15851.0	14005.7	11391.2	9811.3	9287.9	9206.9
77.5°	2995.2	3209.0	4169.8	6872.6	10189.7	11548.5	10204.4	7450.0	5270.5	4245.9	4265.5
80°	793.6	783.9	1014.8	1889.5	4403.2	6688.3	5125.6	2523.5	1380.9	1000.0	948.4
82.5°	285.0	319.5	410.4	523.4	1167.1	2078.7	1466.9	707.7	518.4	383.3	371.1
85°	125.3	122.9	176.9	208.8	292.4	388.2	344.0	299.7	262.9	174.5	162.2
87.5°	27.0	27.0	41.7	31.9	51.6	51.6	63.9	76.2	78.6	51.6	41.7
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)