

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: P646928

Luminaire Tested: **GALN-SA5C-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28769.7 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

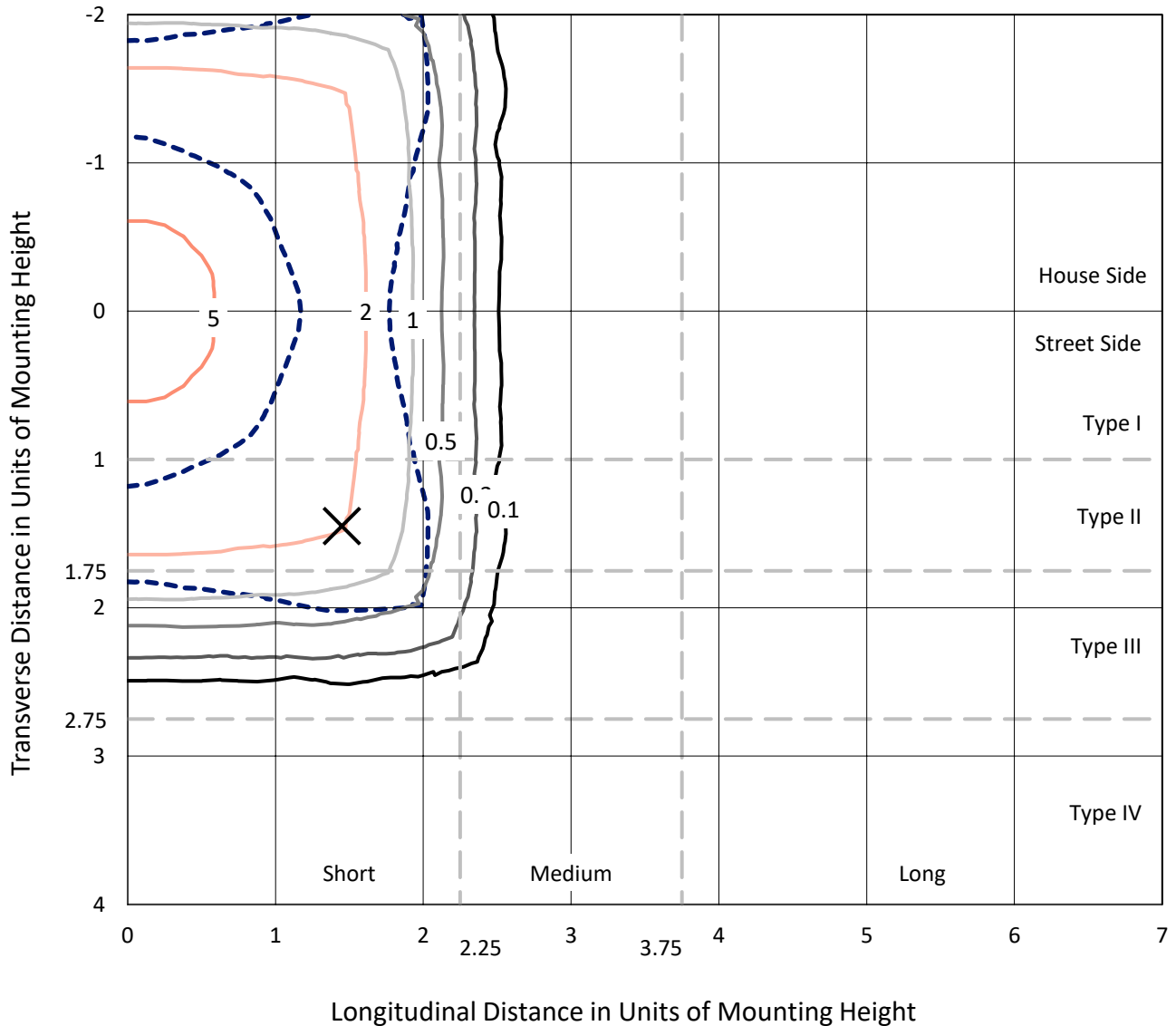
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646928
 CATALOG NUMBER: GALN-SA5C-835-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

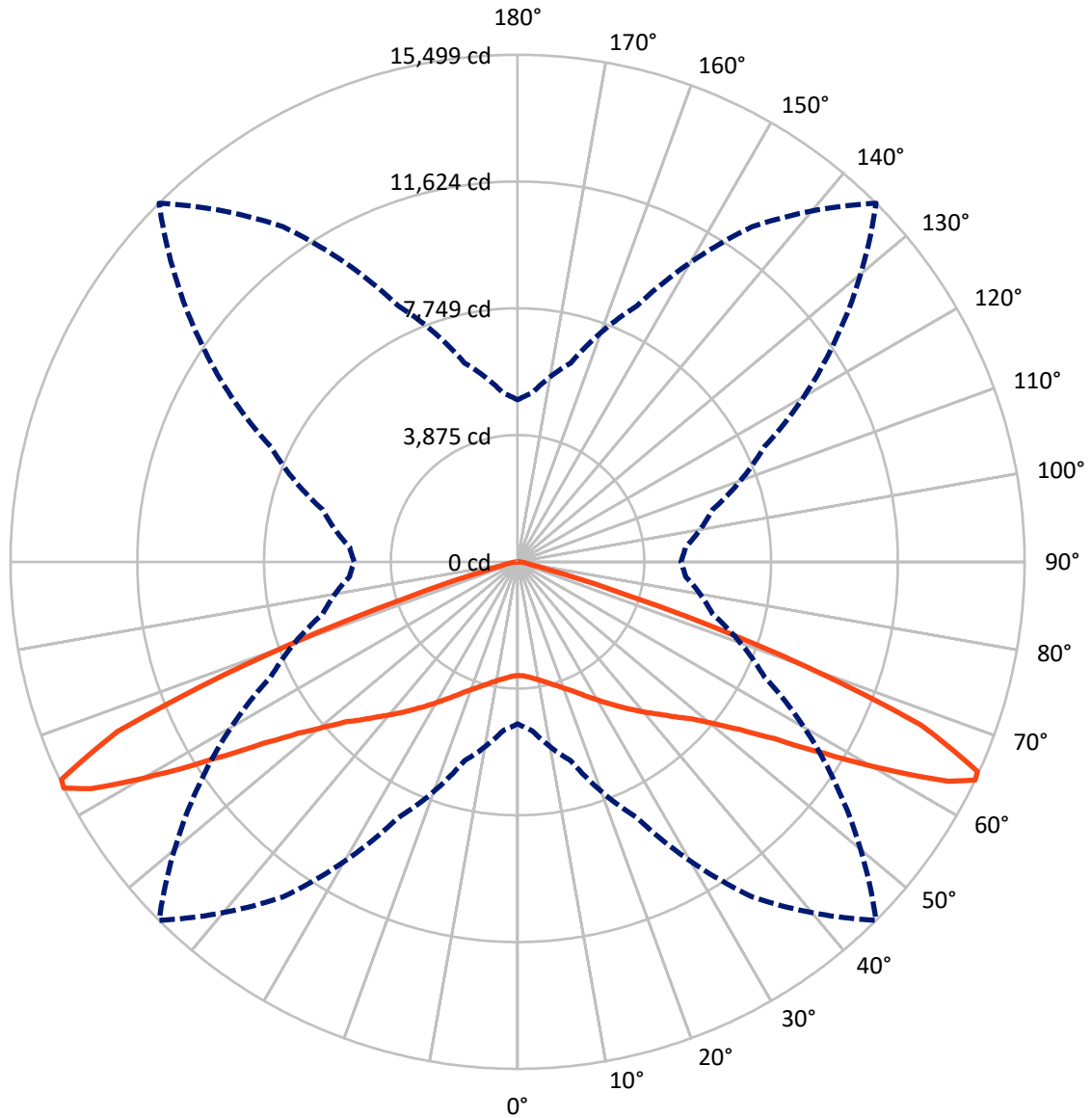
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

REPORT NUMBER: P646928
CATALOG NUMBER: GALN-SA5C-835-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P646928
 CATALOG NUMBER: GALN-SA5C-835-U-5NQ

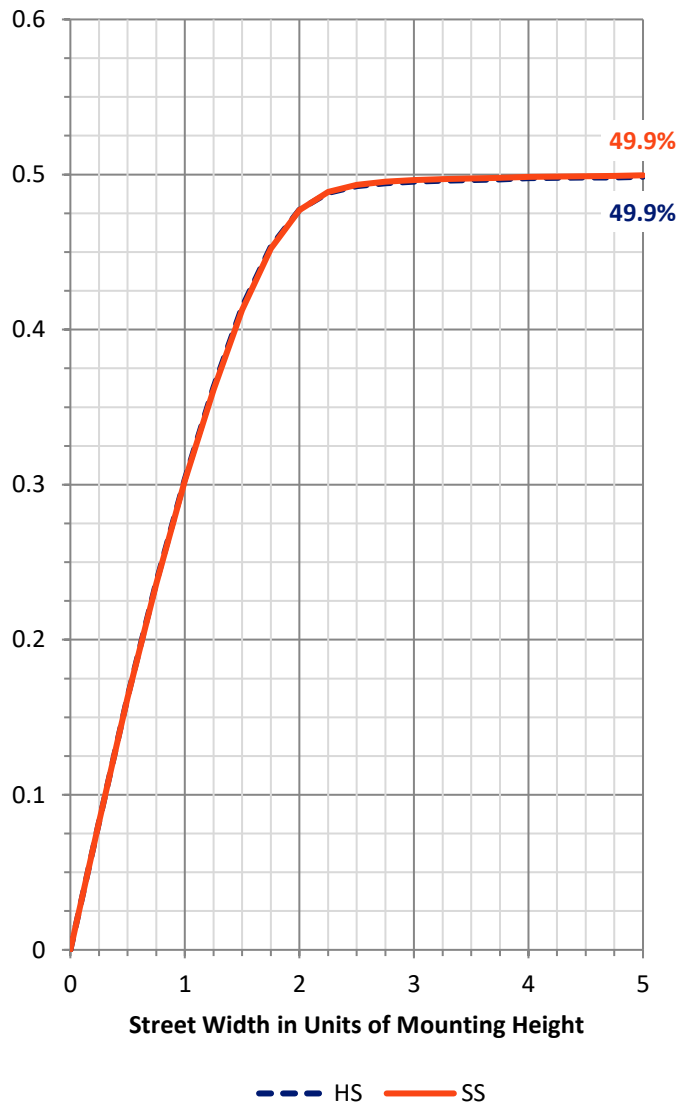
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14384.9	0.0	14384.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14384.9	0.0	14384.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	28769.7	0.0	28769.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.6	1.2
10°-20°	1101.9	3.8
20°-30°	2082.4	7.2
30°-40°	3448.6	12.0
40°-50°	5383.9	18.7
50°-60°	8323.4	28.9
60°-70°	7177.1	24.9
70°-80°	813.3	2.8
80°-90°	97.4	0.3
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°	28769.7	100.0
0°-180°	28769.7	100.0

Coefficient of Utilization



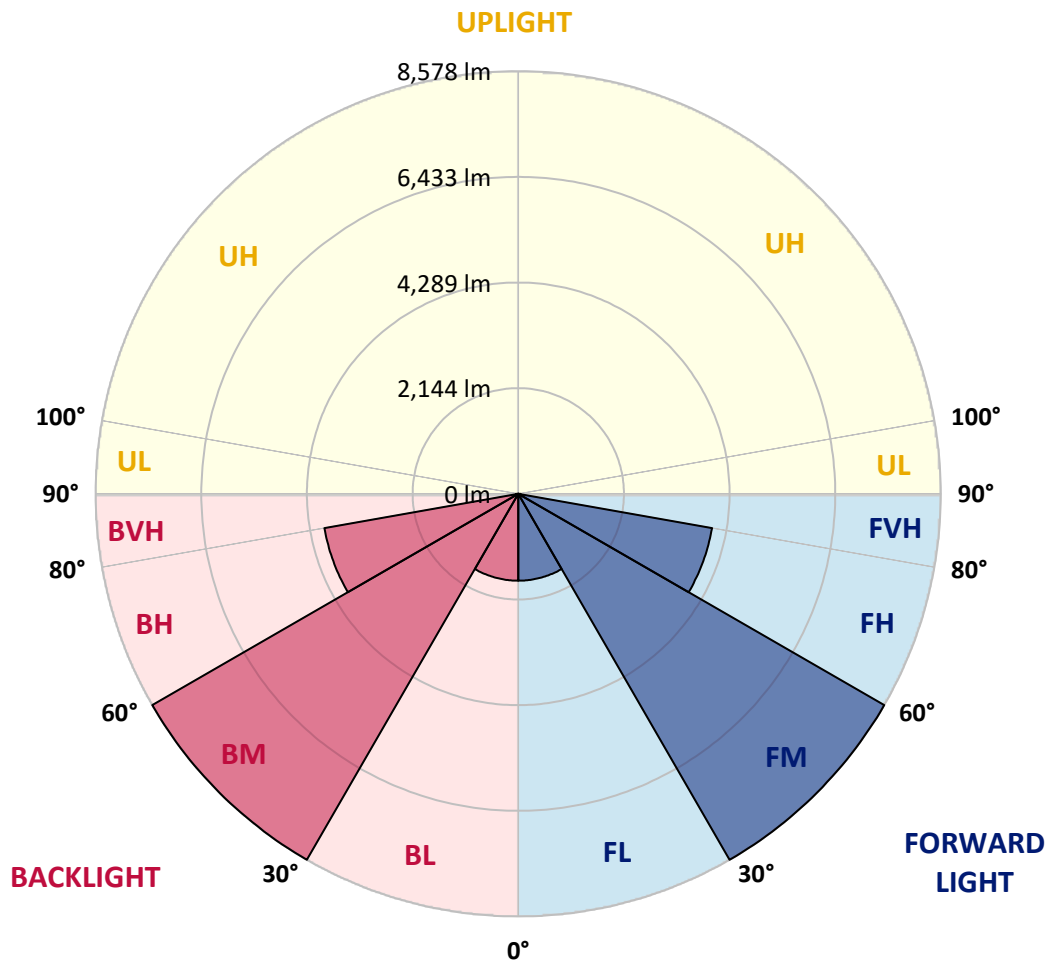
REPORT NUMBER: P646928
 CATALOG NUMBER: GALN-SA5C-835-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1763.0	6.1			
FM (30°-60°)	8577.9	29.8			
FH (60°-80°)	3995.2	13.9			G2/5000
FVH (80°-90°)	48.7	0.2			G1/100
BL (0°-30°)	1763.0	6.1	B3/2500		
BM (30°-60°)	8577.9	29.8	B5		
BH (60°-80°)	3995.2	13.9	B4/5000		G2/5000
BVH (80°-90°)	48.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





REPORT NUMBER: P646928
 CATALOG NUMBER: GALN-SA5C-835-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3477.3	3477.3	3477.3	3477.3	3477.3	3477.3	3477.3	3477.3	3477.3	3477.3	3477.3
2.5°	3491.0	3498.7	3492.6	3491.0	3489.5	3489.5	3489.5	3491.0	3497.1	3501.7	3498.7
5°	3535.2	3541.3	3538.3	3536.7	3535.2	3536.7	3533.7	3532.2	3536.7	3536.7	3535.2
7.5°	3590.1	3597.7	3594.7	3597.7	3599.2	3600.7	3593.1	3587.0	3585.5	3590.1	3587.0
10°	3664.8	3670.9	3672.3	3673.9	3676.9	3675.4	3666.2	3655.6	3654.1	3652.5	3651.1
12.5°	3748.5	3753.2	3754.6	3760.7	3765.3	3766.9	3756.1	3747.0	3731.8	3734.8	3728.7
15°	3843.0	3852.2	3850.6	3859.8	3872.0	3875.0	3864.3	3849.1	3835.4	3827.8	3823.2
17.5°	3958.8	3965.0	3961.9	3971.0	3986.3	3993.8	3984.8	3965.0	3951.2	3934.4	3925.3
20°	4096.0	4106.7	4109.7	4109.7	4123.4	4131.0	4117.3	4111.2	4089.8	4077.7	4070.0
22.5°	4251.4	4256.0	4265.1	4274.2	4287.9	4284.9	4280.3	4271.2	4251.4	4240.7	4228.5
25°	4426.6	4431.2	4454.1	4473.9	4478.4	4475.4	4469.3	4464.7	4446.4	4422.1	4412.9
27.5°	4630.8	4640.0	4670.4	4688.8	4688.8	4690.2	4678.0	4693.3	4653.7	4624.7	4621.7
30°	4886.9	4892.9	4918.8	4937.1	4928.0	4920.4	4917.3	4932.5	4889.8	4838.1	4825.9
32.5°	5139.8	5161.1	5183.9	5223.5	5191.6	5177.9	5174.8	5185.5	5136.7	5078.9	5062.1
35°	5411.0	5426.3	5468.9	5502.5	5473.5	5441.5	5455.2	5488.8	5430.8	5353.1	5350.1
37.5°	5711.2	5724.9	5779.8	5814.8	5793.5	5738.6	5761.5	5801.1	5743.2	5647.2	5627.4
40°	6023.5	6052.5	6121.1	6157.7	6122.6	6049.5	6092.1	6134.8	6083.0	5971.8	5927.5
42.5°	6374.1	6419.7	6518.8	6537.1	6470.1	6371.0	6445.7	6514.2	6477.7	6349.7	6332.9
45°	6784.0	6811.4	6933.3	6972.9	6880.0	6756.5	6849.4	6974.4	6947.0	6799.2	6767.2
47.5°	7242.6	7268.5	7395.0	7454.4	7337.1	7171.0	7338.6	7501.7	7484.9	7326.5	7311.2
50°	7785.1	7791.2	7966.4	8033.5	7916.1	7772.9	7922.2	8124.9	8057.9	7855.2	7852.2
52.5°	8379.4	8387.0	8607.9	8737.5	8672.0	8510.4	8687.2	8810.6	8639.9	8374.8	8355.0
55°	8894.4	8932.5	9234.2	9578.6	9668.5	9551.2	9604.5	9546.6	9126.0	8754.3	8696.3
57.5°	9104.7	9179.3	9638.0	10281.1	10866.2	11039.9	10628.5	10076.9	9319.6	8793.9	8737.5
60°	8591.2	8672.0	9383.6	10604.1	12097.4	12851.7	11695.1	10166.8	8879.1	8140.1	8051.7
62.5°	6880.0	6902.8	7949.6	9843.7	12815.1	14768.6	12144.6	9400.3	7597.7	6593.5	6558.4
64°	4950.8	5185.5	6294.9	8630.8	12501.2	15498.5	11885.6	8326.0	6171.4	5155.0	4990.5
65°	3702.8	3766.9	5074.2	7370.6	11948.1	15443.7	11382.8	7299.0	5110.8	3945.1	3762.2
67.5°	1398.8	1406.5	1872.8	3673.9	8505.9	13287.5	8687.2	3971.0	2153.1	1557.3	1500.9
70°	580.6	591.2	687.2	1235.8	3655.6	8531.7	4188.9	1432.3	787.8	638.5	629.3
72.5°	425.2	431.2	460.2	548.6	1124.5	3503.2	1377.5	608.0	461.7	413.0	408.4
75°	333.7	336.8	358.1	403.8	524.2	970.7	572.9	417.5	352.0	317.0	313.9
77.5°	254.5	262.1	277.3	307.8	352.0	460.2	379.4	312.4	271.2	242.3	237.7
80°	175.2	184.4	213.4	225.5	236.2	298.6	259.0	236.2	211.8	176.7	166.1
82.5°	108.2	114.3	143.2	153.9	149.3	167.6	166.1	169.1	150.9	109.7	102.1
85°	56.4	59.4	77.8	80.7	74.7	68.6	85.3	99.0	92.9	62.5	60.9
87.5°	12.2	13.7	16.8	15.3	16.8	16.8	21.3	32.0	33.5	21.3	19.8
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)