

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: P650896

Luminaire Tested: **GALN-SA5C-840-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19135.3 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

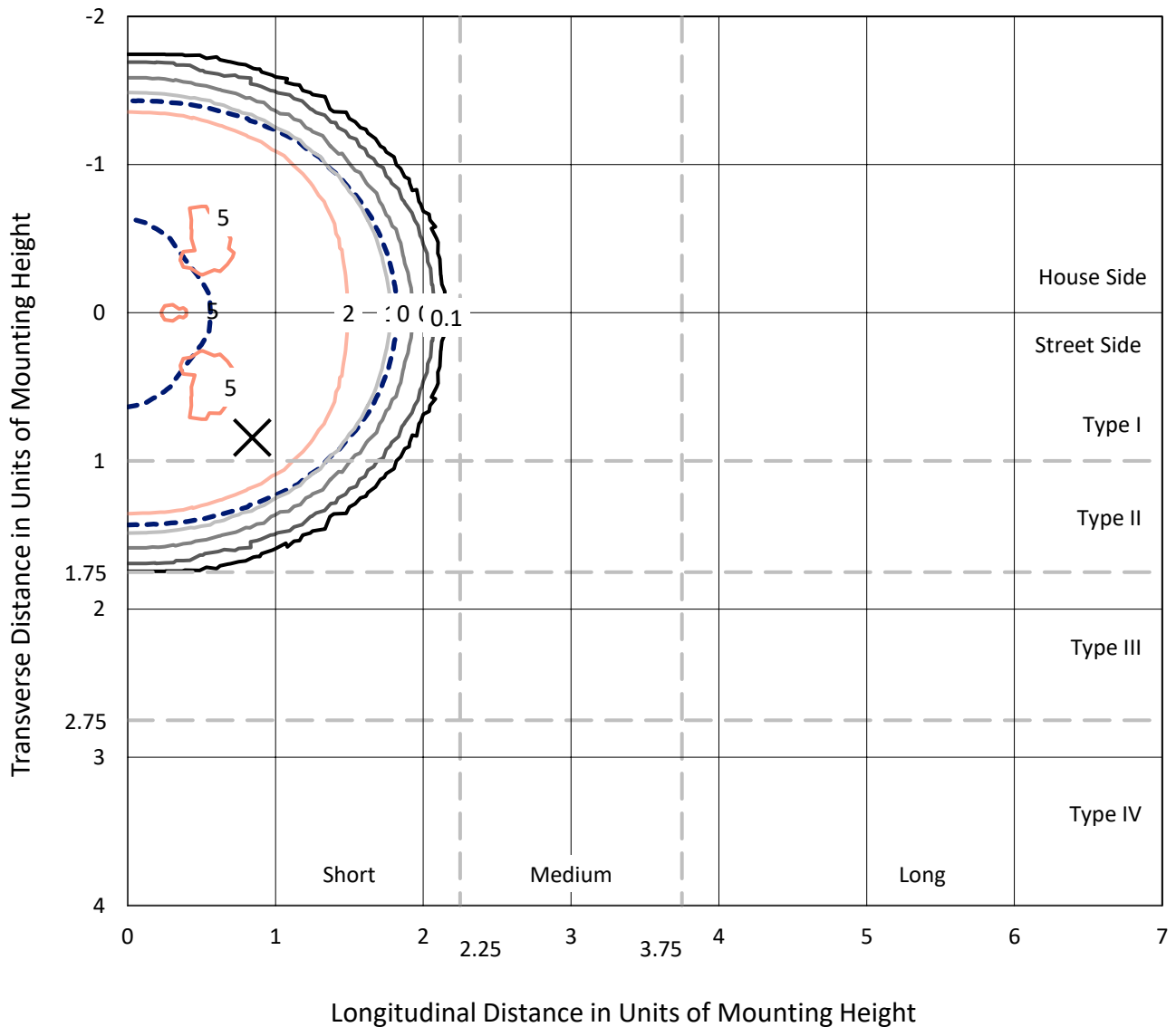
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

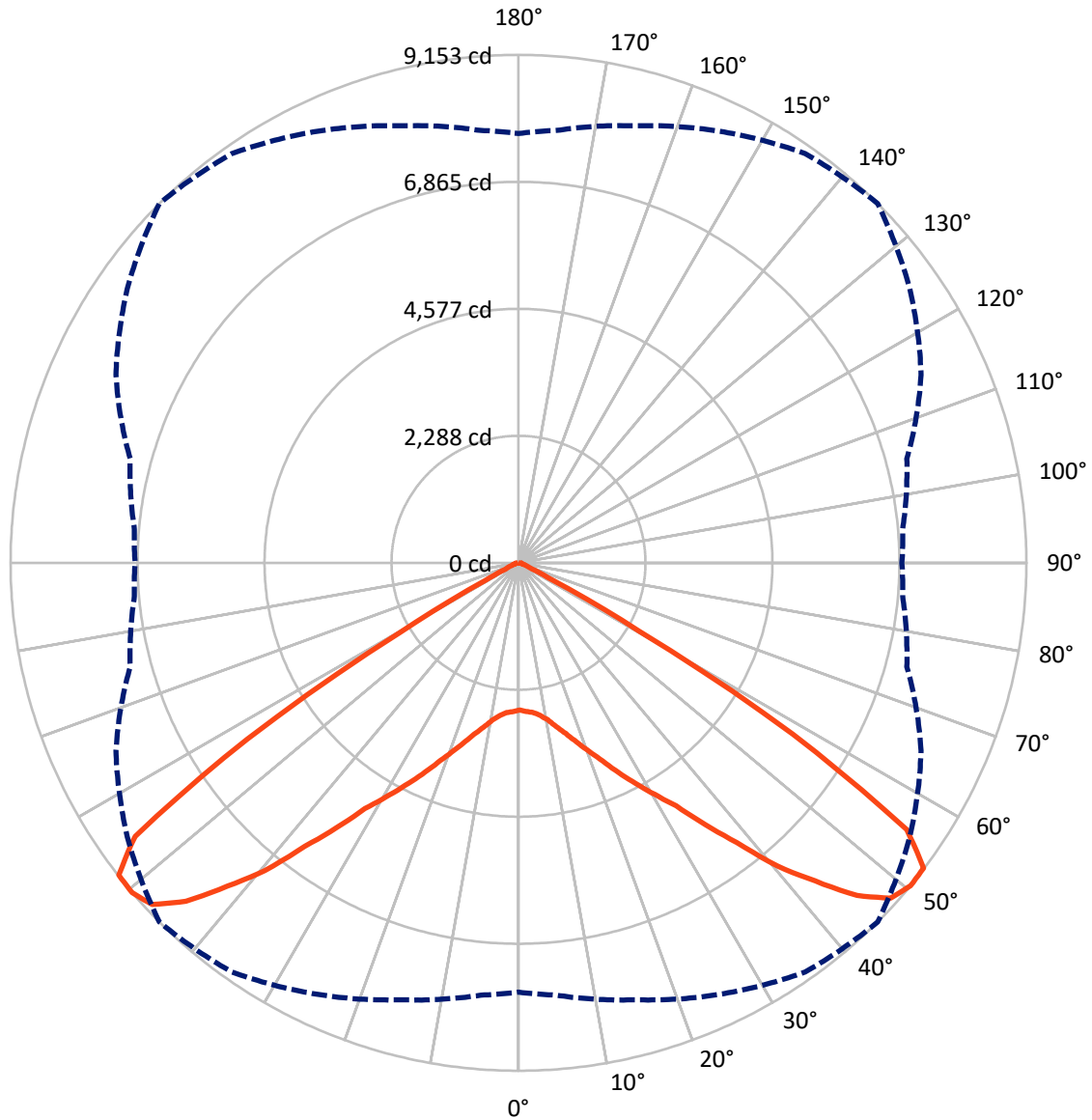
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9567.6	0.0	9567.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9567.6	0.0	9567.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	19135.3	0.0	19135.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.9	1.4
10°-20°	909.6	4.8
20°-30°	1857.8	9.7
30°-40°	3542.9	18.5
40°-50°	5970.2	31.2
50°-60°	5693.7	29.8
60°-70°	794.8	4.2
70°-80°	76.0	0.4
80°-90°	26.3	0.1
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°	19135.3	100.0
0°-180°	19135.3	100.0

Coefficient of Utilization



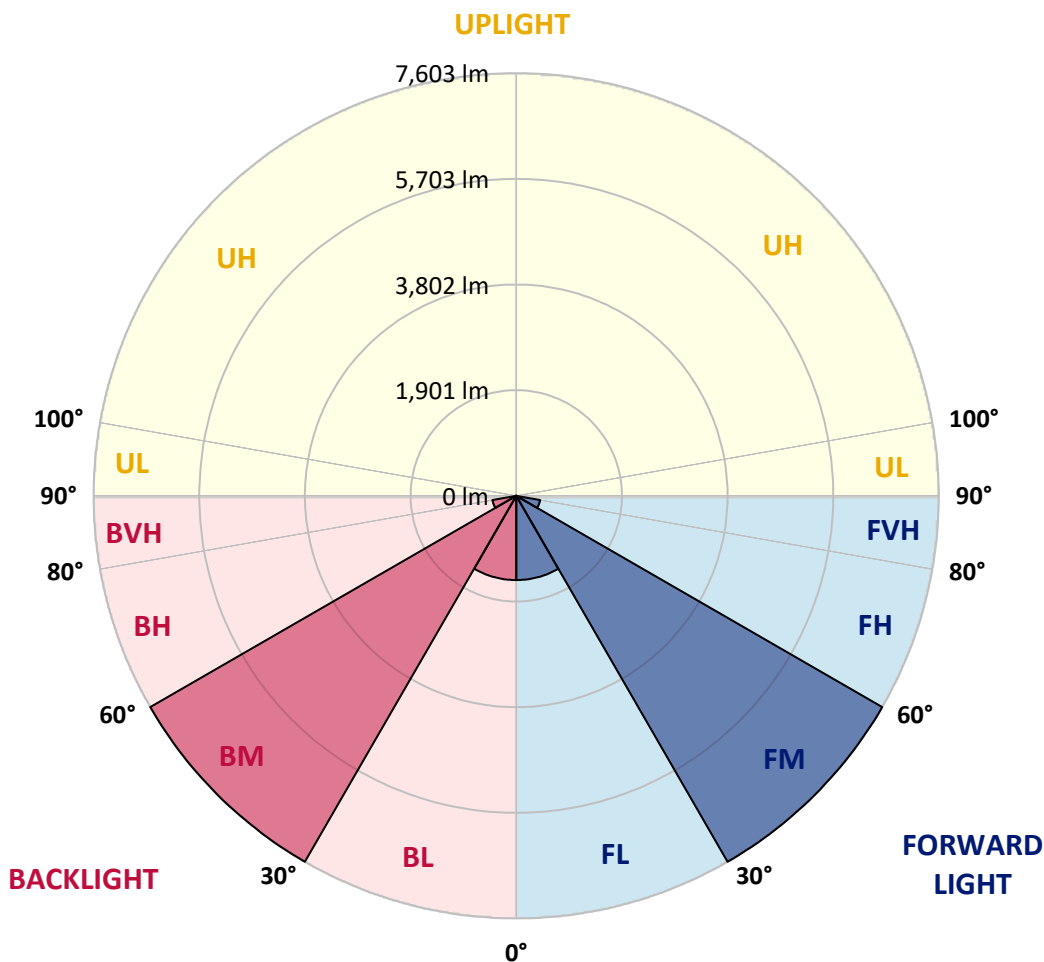
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1515.7	7.9			
FM (30°-60°)	7603.4	39.7			
FH (60°-80°)	435.4	2.3			G0/660
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	1515.7	7.9	B3/2500		
BM (30°-60°)	7603.4	39.7	B4/8500		
BH (60°-80°)	435.4	2.3	B1/500		G0/660
BVH (80°-90°)	13.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2652.9	2652.9	2652.9	2652.9	2652.9	2652.9	2652.9	2652.9	2652.9	2652.9	2652.9
2.5°	2643.3	2643.3	2640.0	2665.8	2652.9	2681.9	2678.7	2688.3	2697.9	2694.7	2720.5
5°	2620.7	2617.4	2617.4	2646.5	2675.5	2707.6	2736.6	2756.0	2788.1	2788.1	2820.3
7.5°	2643.3	2627.1	2649.7	2662.5	2717.3	2772.0	2820.3	2859.0	2933.0	2958.7	2949.1
10°	2649.7	2669.0	2685.1	2723.7	2791.4	2875.0	2916.9	3013.5	3097.2	3155.2	3168.0
12.5°	2691.5	2720.5	2765.5	2859.0	2920.1	3029.6	3087.6	3180.9	3296.8	3361.2	3406.3
15°	2772.0	2781.7	2839.6	2958.7	3090.8	3190.6	3280.7	3348.3	3461.0	3535.1	3538.3
17.5°	2875.0	2916.9	2997.4	3110.1	3248.5	3396.6	3467.4	3541.5	3583.3	3683.2	3705.7
20°	3081.1	3087.6	3164.8	3312.9	3486.8	3621.9	3673.5	3712.1	3696.0	3799.0	3818.4
22.5°	3274.3	3280.7	3377.3	3576.9	3763.6	3879.5	3902.1	3879.5	3831.3	3905.3	3911.7
25°	3470.6	3528.6	3599.4	3799.0	4030.8	4185.4	4188.6	4127.5	4027.6	4040.5	4072.7
27.5°	3776.5	3818.4	3892.4	4075.9	4330.3	4504.1	4475.1	4401.1	4272.3	4282.0	4272.3
30°	4133.9	4172.5	4233.7	4468.7	4655.4	4845.4	4887.2	4816.4	4623.2	4581.4	4629.7
32.5°	4565.3	4620.0	4732.7	4948.4	5106.2	5222.1	5251.0	5225.3	5045.0	5028.9	5061.1
35°	5090.1	5164.2	5267.2	5457.1	5585.9	5795.2	5795.2	5708.2	5544.0	5563.4	5560.1
37.5°	5643.9	5753.3	5914.2	6107.4	6281.3	6394.0	6358.5	6284.5	6120.3	6078.5	6120.3
40°	6339.3	6394.0	6596.8	6847.9	7060.4	7189.2	7037.9	6876.9	6484.1	6545.3	6658.0
42.5°	6973.5	7060.4	7214.9	7491.9	7733.3	7839.5	7659.2	7340.5	6867.3	6819.0	6902.7
45°	7514.4	7607.8	7810.6	8206.6	8461.0	8554.3	8155.1	7640.0	7099.0	6976.8	7012.2
47.5°	7875.0	7923.2	8206.6	8583.2	8815.1	9027.5	8454.5	7846.0	7208.5	6976.8	6963.8
50°	7736.5	7820.2	8151.9	8580.1	9001.8	9153.1	8605.8	8003.8	7244.0	6947.8	6909.2
52.5°	6870.5	7015.4	7385.6	7961.9	8599.4	9140.2	8815.1	7952.2	7231.1	6976.8	7034.7
55°	4781.0	4784.2	5235.0	6084.9	7211.7	8486.7	8509.2	8010.2	7314.8	7157.0	7160.3
57.5°	1922.0	2018.7	2363.1	3216.3	4256.2	5827.4	6928.4	7430.7	7324.4	7285.8	7385.6
60°	486.2	489.4	595.6	907.9	1497.1	2498.4	3628.4	4909.8	5653.5	5907.9	5943.3
62.5°	247.9	251.1	276.9	321.9	408.9	669.7	1191.2	1889.9	2688.3	3094.0	3200.3
65°	202.8	202.8	218.9	241.5	244.6	257.6	309.1	441.1	640.7	727.6	737.3
67.5°	154.6	154.6	167.4	180.3	186.7	183.5	177.1	183.5	222.1	212.5	206.0
70°	96.5	99.8	106.2	119.1	125.6	128.8	132.0	138.4	157.8	164.2	157.8
72.5°	57.9	57.9	61.1	70.8	80.5	87.0	96.5	103.0	112.7	128.8	125.6
75°	25.7	25.7	32.2	41.9	51.6	61.1	70.8	80.5	87.0	96.5	99.8
77.5°	6.5	9.7	16.1	29.0	38.6	51.6	64.4	74.0	80.5	80.5	77.3
80°	3.2	3.2	12.9	22.5	41.9	54.7	70.8	77.3	87.0	80.5	70.8
82.5°	3.2	3.2	12.9	22.5	38.6	54.7	74.0	83.7	90.2	80.5	67.6
85°	0.0	3.2	9.7	19.3	32.2	38.6	32.2	22.5	12.9	12.9	9.7
87.5°	0.0	0.0	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)