

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: P651001

Luminaire Tested: **GALN-SA7C-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651001
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-SA7C-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 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: 43101.2 lumens
Efficiency: N/A
Efficacy: 114.3 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

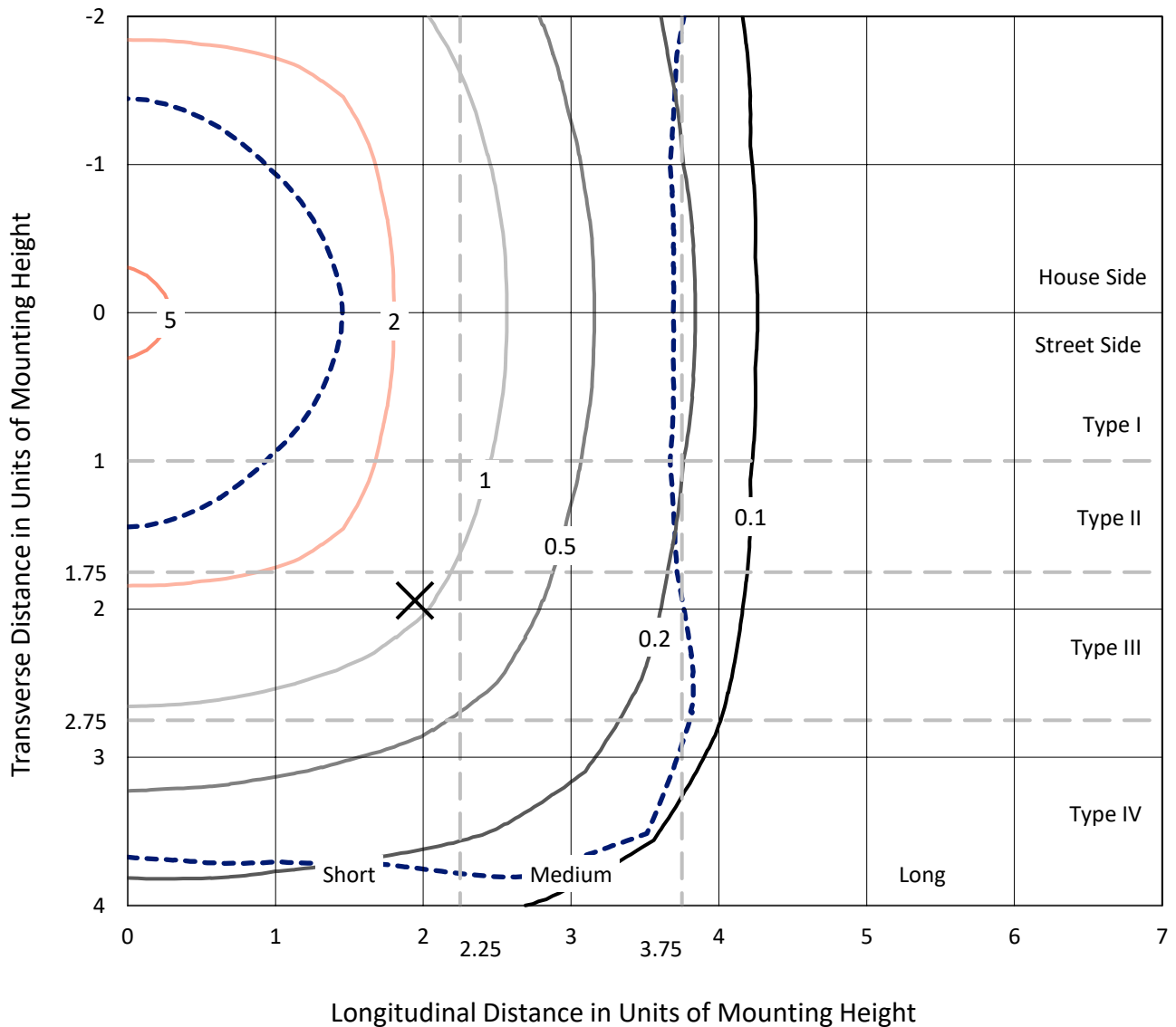
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

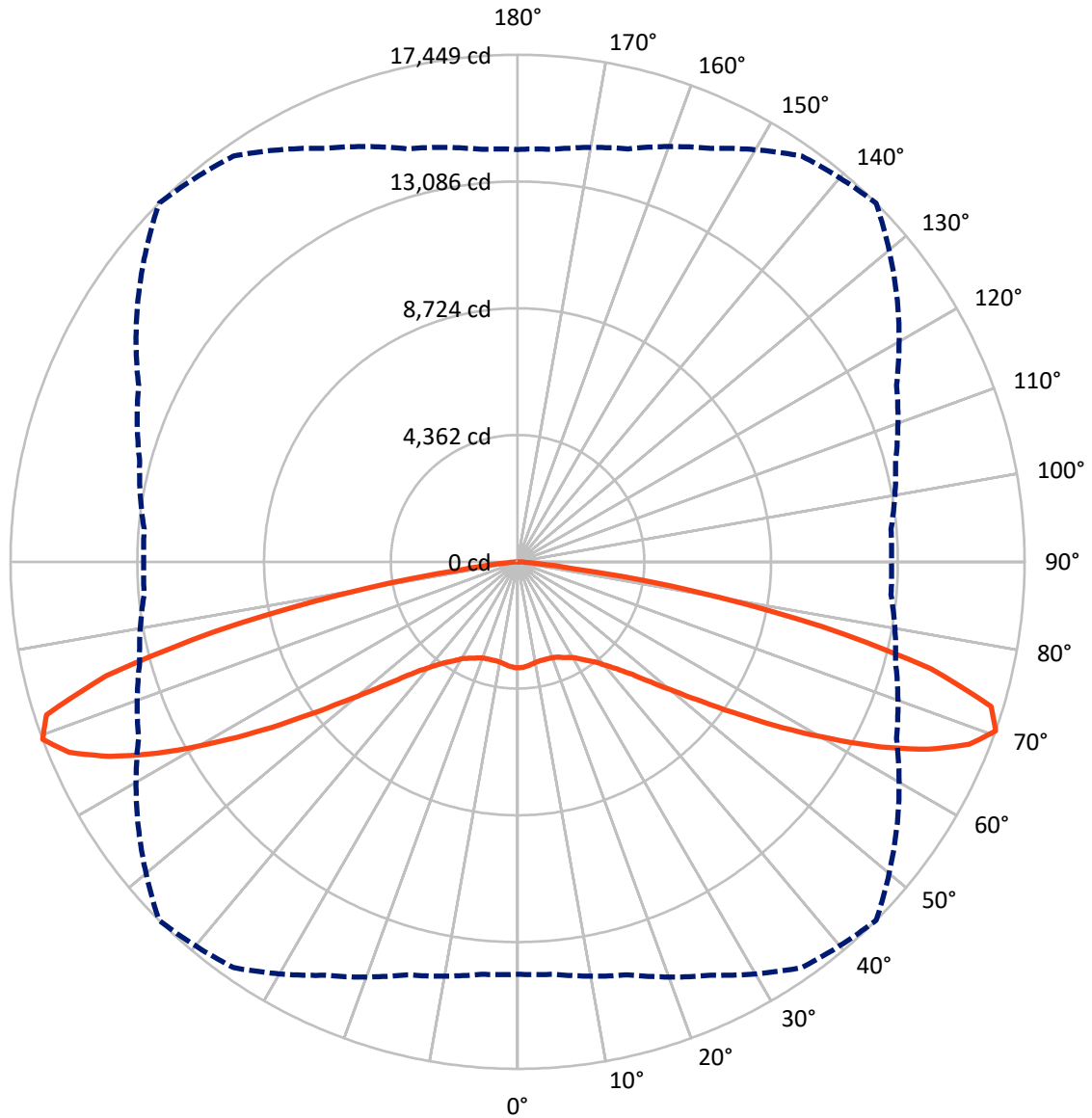
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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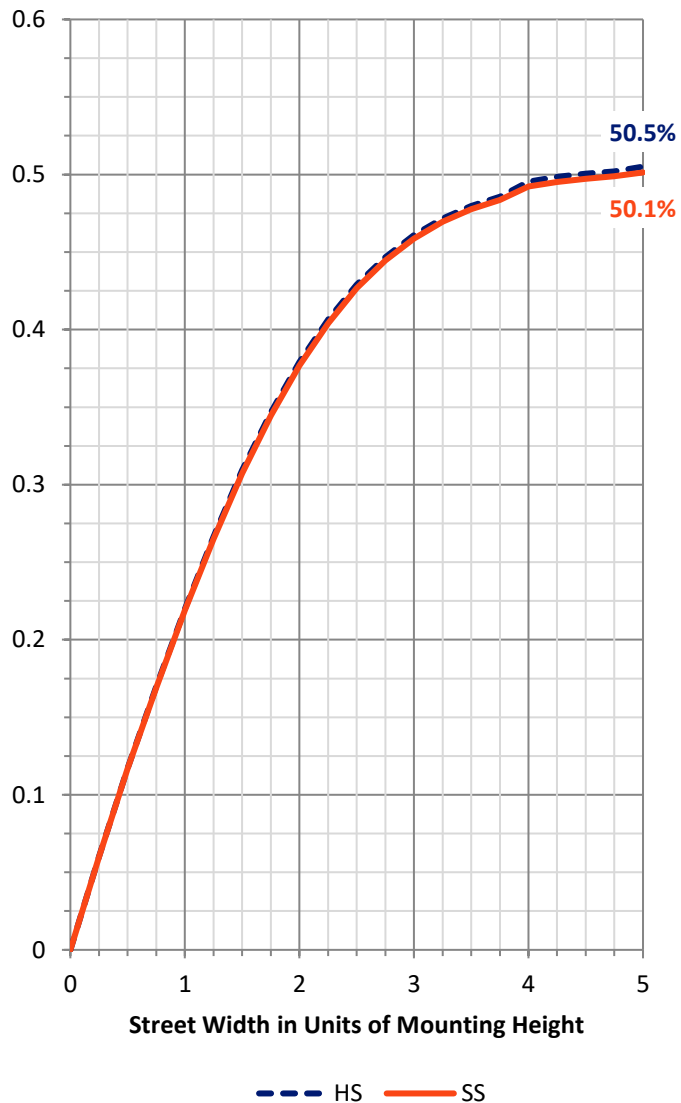
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21550.6	0.0	21550.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21550.6	0.0	21550.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	43101.2	0.0	43101.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.3	0.8
10°-20°	999.0	2.3
20°-30°	1702.1	3.9
30°-40°	2638.3	6.1
40°-50°	4440.6	10.3
50°-60°	8079.5	18.7
60°-70°	13678.4	31.7
70°-80°	10587.6	24.6
80°-90°	634.4	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°	43101.2	100.0
0°-180°	43101.2	100.0

Coefficient of Utilization



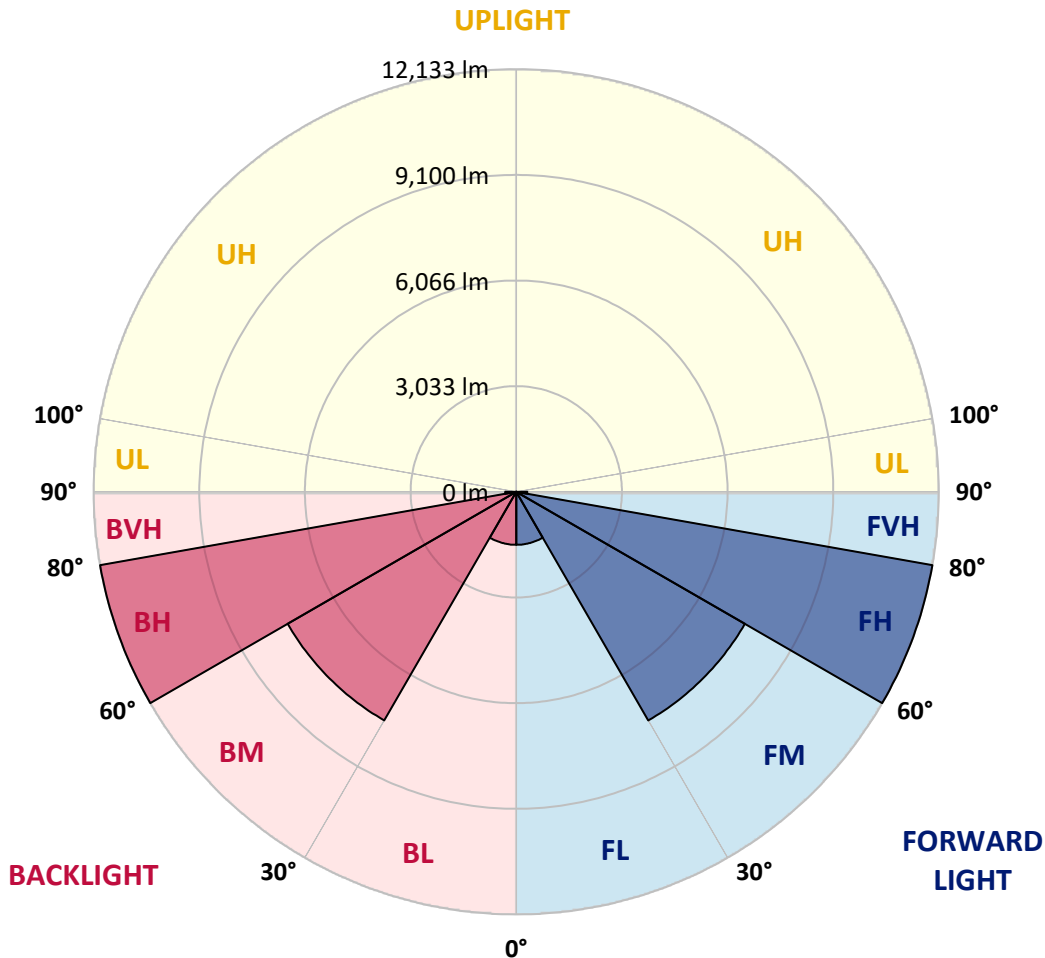
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1521.2	3.5			
FM (30°-60°)	7579.2	17.6			
FH (60°-80°)	12133.0	28.1			G5
FVH (80°-90°)	317.2	0.7			G3/500
BL (0°-30°)	1521.2	3.5	B3/2500		
BM (30°-60°)	7579.2	17.6	B4/8500		
BH (60°-80°)	12133.0	28.1	B5		G5
BVH (80°-90°)	317.2	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°	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0	3649.0
2.5°	3639.9	3642.2	3642.2	3637.7	3635.4	3635.4	3633.1	3633.1	3639.9	3642.2	3644.5
5°	3608.1	3608.1	3608.1	3605.8	3601.2	3601.2	3596.7	3596.7	3599.0	3605.8	3601.2
7.5°	3564.8	3569.4	3569.4	3560.3	3553.5	3553.5	3551.1	3553.5	3555.7	3562.6	3560.3
10°	3551.1	3553.5	3542.0	3526.1	3514.7	3507.9	3510.2	3514.7	3526.1	3530.7	3533.0
12.5°	3560.3	3560.3	3539.8	3517.0	3496.5	3487.5	3485.2	3501.1	3521.6	3535.2	3539.8
15°	3571.6	3567.1	3542.0	3512.4	3492.0	3489.7	3487.5	3498.8	3528.4	3555.7	3558.0
17.5°	3578.5	3576.2	3544.3	3507.9	3496.5	3496.5	3494.3	3503.4	3535.2	3569.4	3571.6
20°	3601.2	3594.4	3558.0	3519.3	3510.2	3514.7	3507.9	3519.3	3553.5	3594.4	3603.5
22.5°	3646.7	3639.9	3603.5	3564.8	3560.3	3560.3	3558.0	3569.4	3605.8	3649.0	3655.9
25°	3701.4	3694.6	3660.5	3633.1	3637.7	3646.7	3642.2	3644.5	3674.1	3710.5	3721.9
27.5°	3774.2	3762.9	3733.3	3710.5	3724.2	3724.2	3724.2	3721.9	3740.1	3774.2	3785.6
30°	3863.0	3858.5	3826.6	3824.4	3835.7	3824.4	3824.4	3826.6	3828.9	3860.8	3872.1
32.5°	3979.1	3970.0	3954.0	3949.5	3981.4	3990.5	3958.7	3929.1	3945.0	3976.8	3983.6
35°	4170.4	4156.6	4133.9	4108.9	4133.9	4177.2	4108.9	4086.1	4127.1	4170.4	4174.9
37.5°	4429.9	4423.0	4386.6	4341.1	4338.8	4384.3	4313.7	4311.5	4388.8	4441.2	4448.0
40°	4755.4	4762.2	4716.7	4673.4	4650.6	4687.1	4632.5	4652.9	4728.0	4787.2	4782.7
42.5°	5212.9	5187.9	5117.3	5076.4	5051.3	5037.7	5024.0	5055.8	5140.1	5203.9	5253.9
45°	5747.9	5738.7	5650.0	5599.9	5545.3	5524.8	5520.2	5577.2	5679.6	5757.0	5763.8
47.5°	6353.4	6332.9	6276.0	6223.7	6203.1	6178.2	6155.4	6198.6	6301.0	6355.7	6371.6
50°	6977.1	6981.6	6981.6	6972.6	6993.1	6997.6	6936.1	6952.1	7009.0	7004.4	6999.9
52.5°	7689.6	7714.7	7833.1	7844.4	7942.3	8008.3	7896.8	7830.8	7810.3	7687.3	7696.5
55°	8527.3	8550.1	8727.6	8905.3	9169.3	9280.9	9046.4	8841.5	8695.8	8509.2	8518.2
57.5°	9572.2	9583.6	9752.1	10093.5	10512.3	10774.1	10362.1	9956.9	9661.0	9483.5	9412.9
60°	10696.8	10708.1	10953.9	11370.6	12021.6	12340.3	11830.3	11168.0	10794.7	10523.8	10541.9
62.5°	12046.7	12092.2	12313.0	12886.6	13676.5	14033.9	13357.9	12472.4	11966.9	11630.0	11643.7
65°	13492.2	13569.5	13810.8	14441.4	15169.9	15554.5	14725.9	13703.8	13075.5	12663.5	12706.8
67.5°	14430.0	14498.3	14846.6	15543.2	16451.5	16770.1	15700.2	14509.7	13724.4	13232.6	13141.6
70°	14191.0	14247.9	14712.3	15700.2	17045.6	17448.5	15932.4	14391.4	13467.1	12900.3	12863.9
72.5°	12526.9	12408.6	13087.0	14505.1	16367.2	17043.3	15201.7	13143.8	11980.6	11397.9	11329.6
75°	8302.0	8559.2	9560.8	11231.7	13847.2	14685.0	12975.4	10553.4	9089.6	8604.8	8529.6
77.5°	2774.9	2972.9	3863.0	6367.0	9440.1	10699.0	9453.8	6902.0	4882.8	3933.6	3951.8
80°	735.3	726.2	940.2	1750.5	4079.3	6196.3	4748.5	2337.8	1279.3	926.5	878.7
82.5°	264.1	295.9	380.1	484.8	1081.3	1925.8	1359.0	655.6	480.3	355.2	343.7
85°	116.1	113.8	163.9	193.5	270.9	359.7	318.7	277.7	243.6	161.6	150.2
87.5°	25.1	25.1	38.7	29.6	47.8	47.8	59.2	70.6	72.8	47.8	38.7
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)