

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: P454426

Luminaire Tested: **GALN-SA5C-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454426
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-SA5C-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 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: 36849 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

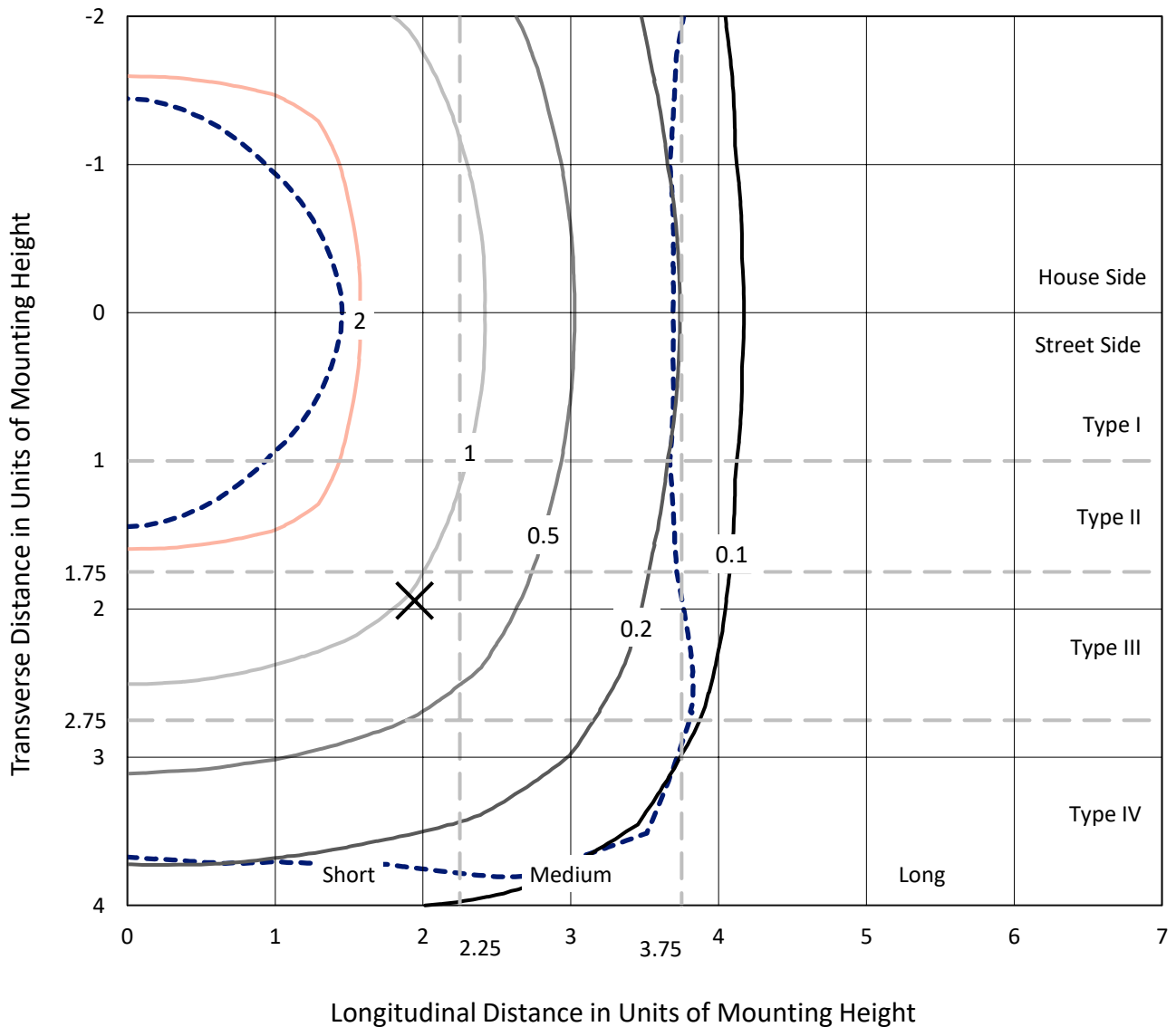
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

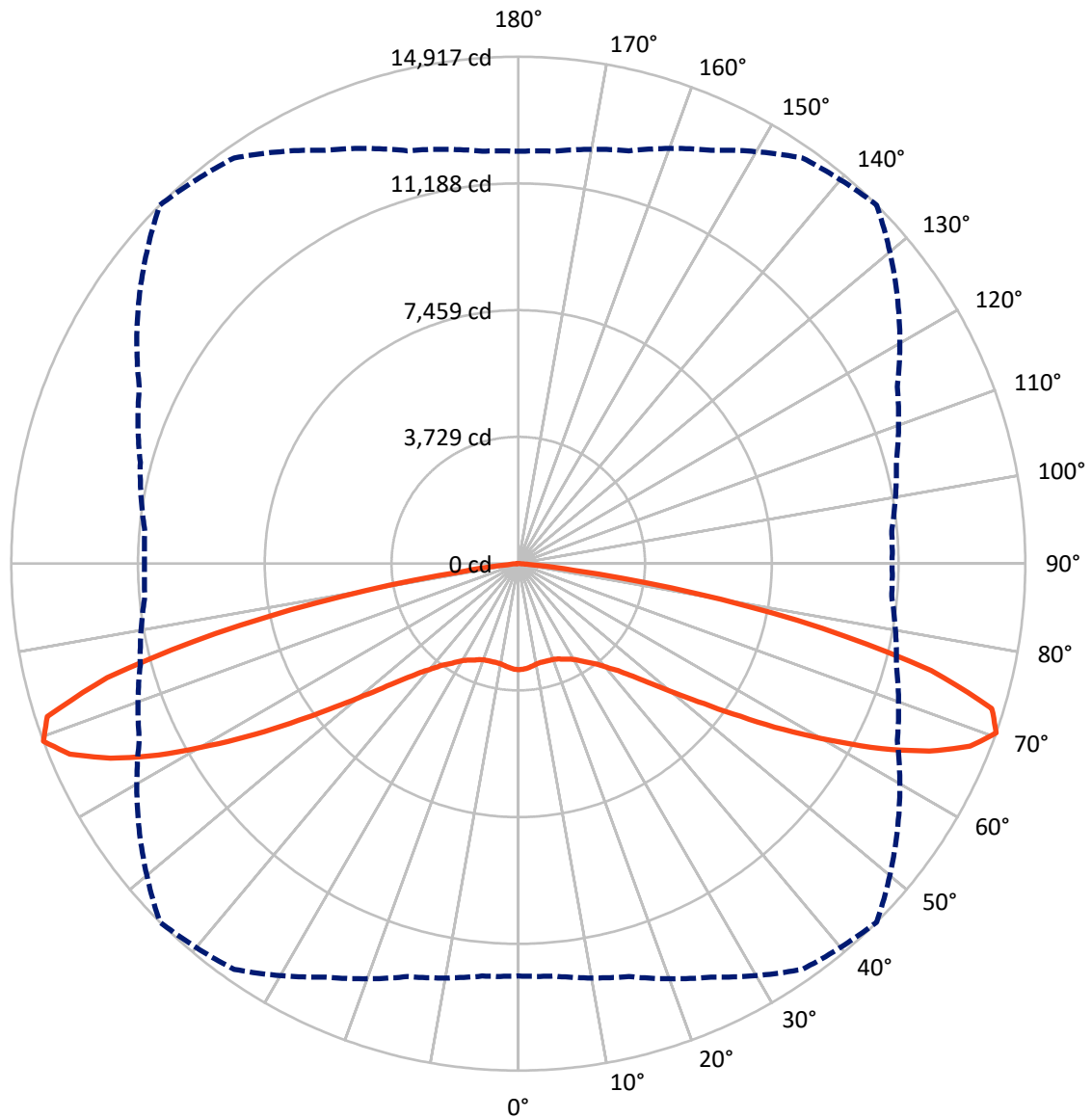
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	18424.5	0.0	18424.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18424.5	0.0	18424.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36849.0	0.0	36849.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	0.8
10°-20°	854.1	2.3
20°-30°	1455.2	3.9
30°-40°	2255.6	6.1
40°-50°	3796.5	10.3
50°-60°	6907.5	18.7
60°-70°	11694.2	31.7
70°-80°	9051.8	24.6
80°-90°	542.4	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°	36849.0	100.0
0°-180°	36849.0	100.0



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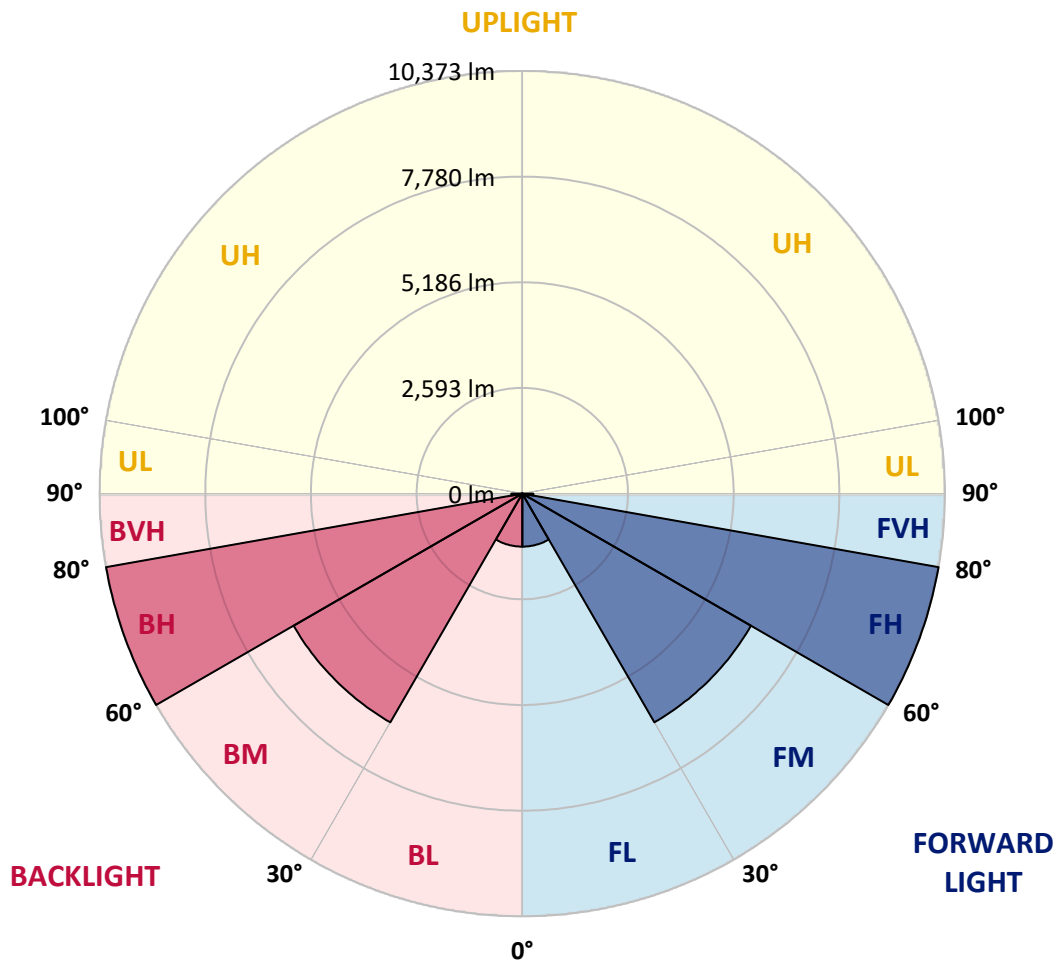
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1300.5	3.5			
FM (30°-60°)	6479.8	17.6			
FH (60°-80°)	10373.0	28.1			G4/12000
FVH (80°-90°)	271.2	0.7			G3/500
BL (0°-30°)	1300.5	3.5	B3/2500		
BM (30°-60°)	6479.8	17.6	B4/8500		
BH (60°-80°)	10373.0	28.1	B5		G4/12000
BVH (80°-90°)	271.2	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3119.7	3119.7	3119.7	3119.7	3119.7	3119.7	3119.7	3119.7	3119.7	3119.7	3119.7
2.5°	3111.9	3113.9	3113.9	3110.0	3108.0	3108.0	3106.1	3106.1	3111.9	3113.9	3115.8
5°	3084.7	3084.7	3084.7	3082.7	3078.8	3078.8	3075.0	3075.0	3076.9	3082.7	3078.8
7.5°	3047.7	3051.6	3051.6	3043.8	3038.0	3038.0	3036.0	3038.0	3039.9	3045.8	3043.8
10°	3036.0	3038.0	3028.2	3014.6	3004.9	2999.1	3001.0	3004.9	3014.6	3018.5	3020.5
12.5°	3043.8	3043.8	3026.3	3006.8	2989.3	2981.5	2979.6	2993.2	3010.7	3022.4	3026.3
15°	3053.5	3049.7	3028.2	3002.9	2985.4	2983.5	2981.5	2991.3	3016.6	3039.9	3041.9
17.5°	3059.4	3057.4	3030.2	2999.1	2989.3	2989.3	2987.4	2995.2	3022.4	3051.6	3053.5
20°	3078.8	3073.0	3041.9	3008.8	3001.0	3004.9	2999.1	3008.8	3038.0	3073.0	3080.8
22.5°	3117.8	3111.9	3080.8	3047.7	3043.8	3043.8	3041.9	3051.6	3082.7	3119.7	3125.6
25°	3164.5	3158.6	3129.4	3106.1	3110.0	3117.8	3113.9	3115.8	3141.1	3172.3	3182.0
27.5°	3226.8	3217.0	3191.7	3172.3	3183.9	3183.9	3183.9	3182.0	3197.6	3226.8	3236.5
30°	3302.7	3298.8	3271.5	3269.6	3279.3	3269.6	3269.6	3271.5	3273.5	3300.7	3310.4
32.5°	3401.9	3394.1	3380.5	3376.6	3403.9	3411.6	3384.4	3359.1	3372.7	3400.0	3405.8
35°	3565.4	3553.7	3534.3	3512.8	3534.3	3571.2	3512.8	3493.4	3528.4	3565.4	3569.3
37.5°	3787.3	3781.4	3750.3	3711.4	3709.4	3748.3	3688.0	3686.1	3752.2	3797.0	3802.8
40°	4065.6	4071.4	4032.5	3995.5	3976.0	4007.2	3960.5	3978.0	4042.2	4092.8	4088.9
42.5°	4456.7	4435.3	4375.0	4340.0	4318.6	4306.9	4295.2	4322.5	4394.5	4449.0	4491.8
45°	4914.1	4906.3	4830.4	4787.6	4740.9	4723.4	4719.5	4768.1	4855.7	4921.9	4927.7
47.5°	5431.8	5414.3	5365.6	5320.8	5303.3	5281.9	5262.5	5299.4	5387.0	5433.7	5447.3
50°	5965.0	5968.9	5968.9	5961.1	5978.7	5982.5	5930.0	5943.6	5992.3	5988.4	5984.5
52.5°	6574.2	6595.6	6696.8	6706.5	6790.2	6846.6	6751.3	6694.8	6677.3	6572.2	6580.0
55°	7290.4	7309.8	7461.6	7613.4	7839.2	7934.6	7734.1	7558.9	7434.4	7274.8	7282.6
57.5°	8183.7	8193.4	8337.4	8629.3	8987.4	9211.2	8859.0	8512.6	8259.6	8107.8	8047.4
60°	9145.1	9154.8	9365.0	9721.1	10277.8	10550.2	10114.3	9547.9	9228.8	8997.2	9012.7
62.5°	10299.2	10338.1	10526.9	11017.3	11692.6	11998.2	11420.2	10663.1	10231.0	9943.0	9954.7
65°	11535.0	11601.2	11807.4	12346.5	12969.3	13298.2	12589.8	11716.0	11178.8	10826.6	10863.6
67.5°	12336.8	12395.2	12693.0	13288.5	14065.0	14337.5	13422.8	12404.9	11733.5	11313.1	11235.3
70°	12132.5	12181.1	12578.1	13422.8	14573.0	14917.4	13621.3	12303.7	11513.6	11029.0	10997.8
72.5°	10709.8	10608.6	11188.6	12401.0	13993.0	14571.0	12996.6	11237.2	10242.7	9744.5	9686.1
75°	7097.7	7317.6	8173.9	9602.4	11838.6	12554.8	11093.2	9022.5	7771.1	7356.5	7292.3
77.5°	2372.4	2541.7	3302.7	5443.5	8070.8	9147.0	8082.5	5900.8	4174.5	3363.0	3378.6
80°	628.6	620.8	803.8	1496.6	3487.5	5297.5	4059.7	1998.7	1093.8	792.1	751.2
82.5°	225.8	253.0	325.0	414.5	924.4	1646.5	1161.9	560.5	410.6	303.6	293.9
85°	99.3	97.3	140.1	165.4	231.6	307.5	272.5	237.4	208.2	138.2	128.4
87.5°	21.4	21.4	33.1	25.3	40.9	40.9	50.6	60.3	62.3	40.9	33.1
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)