

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: P453961

Luminaire Tested: **GALN-SA5A-740-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453961
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-SA5A-740-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23901 lumens
Efficiency: N/A
Efficacy: 155.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

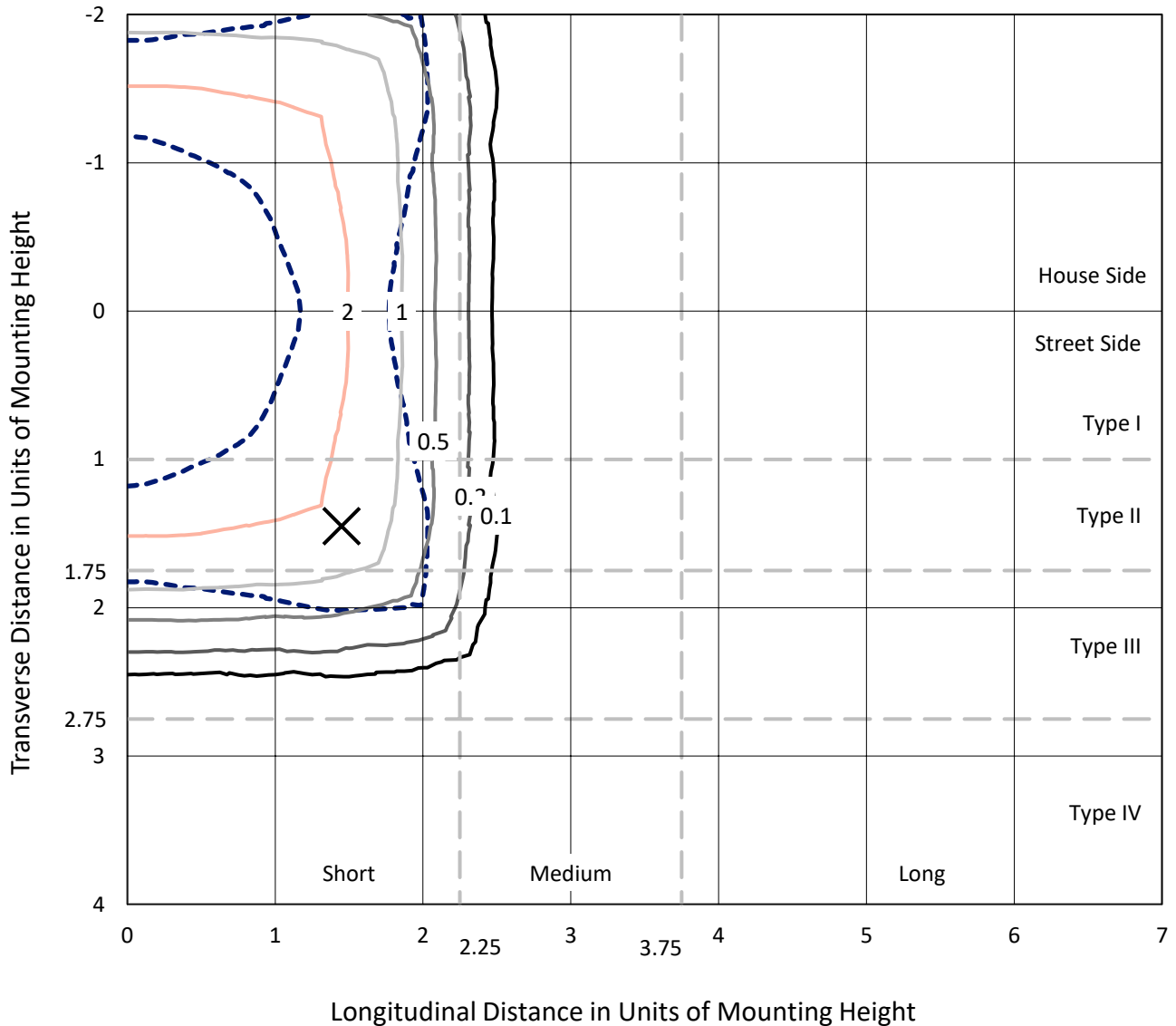
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

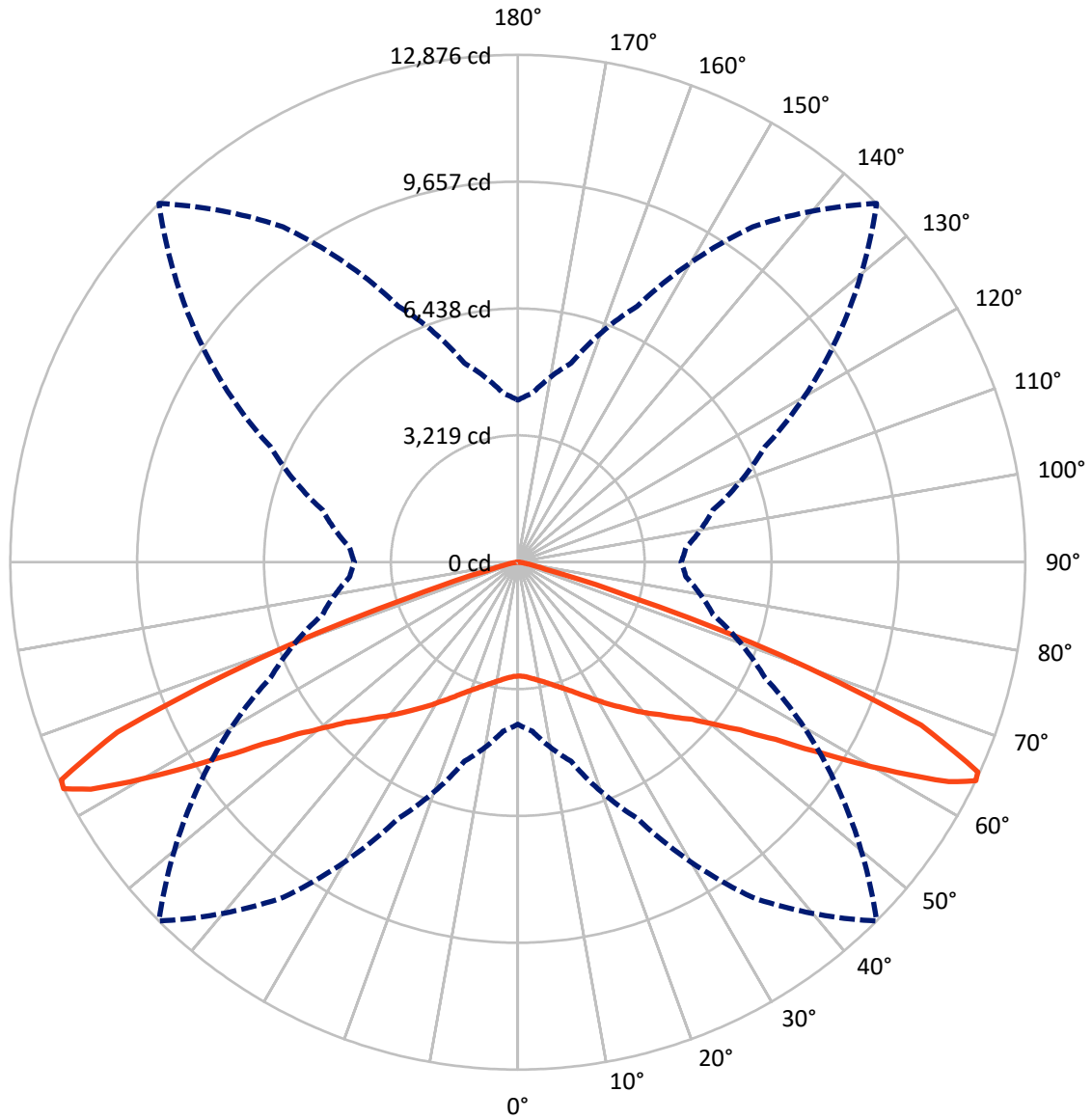
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11950.5	0.0	11950.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11950.5	0.0	11950.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23901.0	0.0	23901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.8	1.2
10°-20°	915.5	3.8
20°-30°	1730.0	7.2
30°-40°	2865.0	12.0
40°-50°	4472.8	18.7
50°-60°	6914.8	28.9
60°-70°	5962.5	24.9
70°-80°	675.7	2.8
80°-90°	81.0	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°	23901.0	100.0
0°-180°	23901.0	100.0

Coefficient of Utilization



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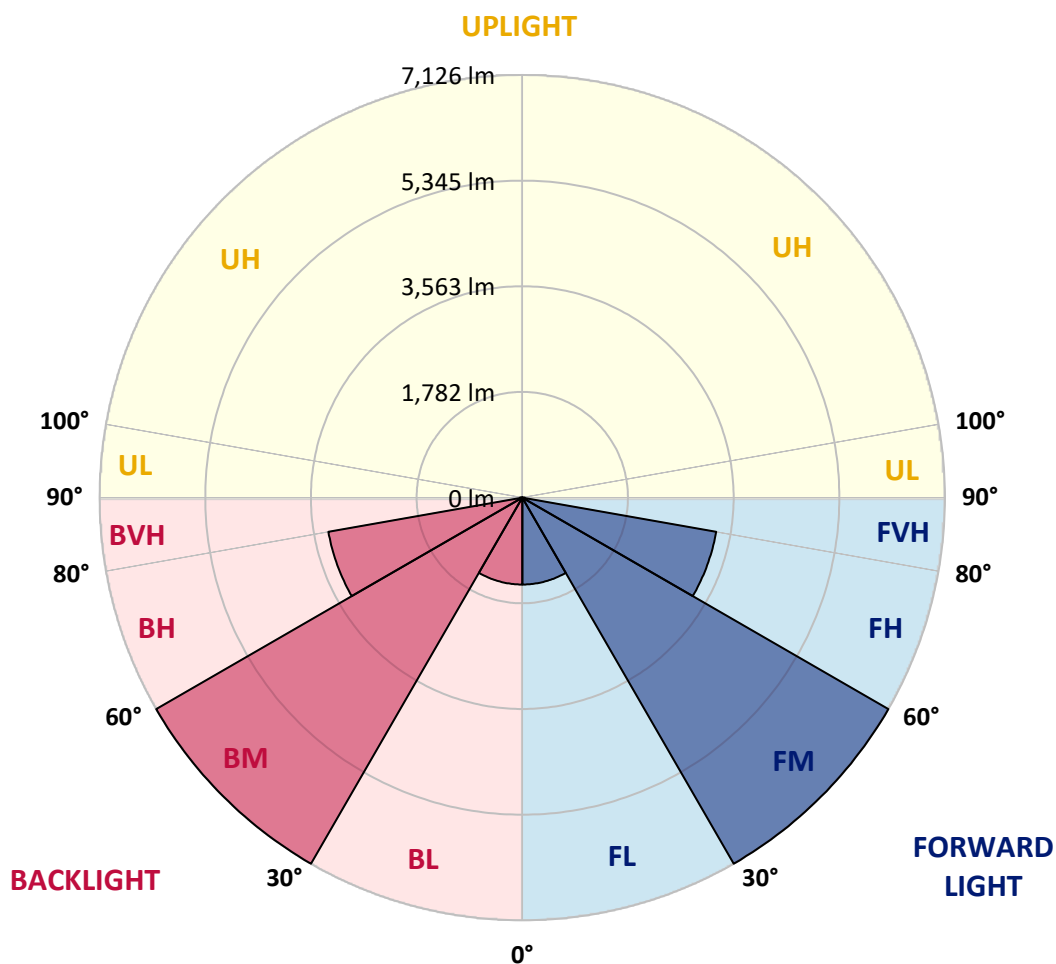
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1464.6	6.1			
FM	(30°-60°)	7126.3	29.8			
FH	(60°-80°)	3319.1	13.9			G2/5000
FVH	(80°-90°)	40.5	0.2			G1/100
BL	(0°-30°)	1464.6	6.1	B3/2500		
BM	(30°-60°)	7126.3	29.8	B4/8500		
BH	(60°-80°)	3319.1	13.9	B4/5000		G2/5000
BVH	(80°-90°)	40.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2888.8	2888.8	2888.8	2888.8	2888.8	2888.8	2888.8	2888.8	2888.8	2888.8	2888.8
2.5°	2900.2	2906.6	2901.5	2900.2	2899.0	2899.0	2899.0	2900.2	2905.3	2909.1	2906.6
5°	2936.9	2942.0	2939.5	2938.2	2936.9	2938.2	2935.7	2934.4	2938.2	2938.2	2936.9
7.5°	2982.5	2988.8	2986.3	2988.8	2990.1	2991.4	2985.0	2980.0	2978.7	2982.5	2980.0
10°	3044.5	3049.6	3050.9	3052.1	3054.7	3053.4	3045.8	3037.0	3035.7	3034.4	3033.2
12.5°	3114.2	3118.0	3119.2	3124.3	3128.1	3129.4	3120.5	3112.9	3100.2	3102.8	3097.7
15°	3192.7	3200.3	3199.0	3206.6	3216.7	3219.2	3210.4	3197.7	3186.3	3180.0	3176.2
17.5°	3288.9	3293.9	3291.4	3299.0	3311.7	3318.0	3310.4	3293.9	3282.5	3268.6	3261.0
20°	3402.8	3411.7	3414.2	3414.2	3425.6	3431.9	3420.5	3415.5	3397.7	3387.6	3381.3
22.5°	3531.9	3535.7	3543.3	3550.9	3562.3	3559.8	3556.0	3548.4	3531.9	3523.1	3512.9
25°	3677.5	3681.3	3700.3	3716.8	3720.5	3718.0	3713.0	3709.2	3694.0	3673.7	3666.1
27.5°	3847.1	3854.7	3880.1	3895.2	3895.2	3896.5	3886.4	3899.0	3866.1	3842.1	3839.5
30°	4059.8	4064.9	4086.4	4101.6	4094.0	4087.7	4085.1	4097.8	4062.3	4019.3	4009.2
32.5°	4270.0	4287.7	4306.7	4339.6	4313.0	4301.6	4299.1	4307.9	4267.4	4219.3	4205.4
35°	4495.3	4508.0	4543.4	4571.3	4547.2	4520.6	4532.0	4559.9	4511.8	4447.2	4444.7
37.5°	4744.7	4756.1	4801.6	4830.8	4813.0	4767.5	4786.5	4819.4	4771.3	4691.5	4675.1
40°	5004.2	5028.2	5085.2	5115.6	5086.5	5025.7	5061.2	5096.6	5053.6	4961.2	4924.4
42.5°	5295.4	5333.3	5415.6	5430.8	5375.1	5292.8	5354.9	5411.8	5381.4	5275.1	5261.2
45°	5635.9	5658.7	5760.0	5792.9	5715.6	5613.1	5690.3	5794.1	5771.3	5648.6	5622.0
47.5°	6016.9	6038.5	6143.5	6192.9	6095.4	5957.4	6096.7	6232.1	6218.2	6086.6	6073.9
50°	6467.6	6472.7	6618.2	6673.9	6576.5	6457.5	6581.5	6749.9	6694.2	6525.8	6523.3
52.5°	6961.3	6967.6	7151.2	7258.8	7204.4	7070.2	7217.0	7319.6	7177.8	6957.5	6941.1
55°	7389.2	7420.8	7671.5	7957.6	8032.3	7934.8	7979.1	7931.0	7581.6	7272.7	7224.6
57.5°	7563.9	7625.9	8007.0	8541.2	9027.3	9171.6	8829.8	8371.6	7742.4	7305.6	7258.8
60°	7137.3	7204.4	7795.6	8809.6	10050.2	10676.8	9716.0	8446.2	7376.5	6762.6	6689.1
62.5°	5715.6	5734.6	6604.3	8177.9	10646.4	12269.3	10089.4	7809.5	6311.9	5477.7	5448.5
64°	4113.0	4307.9	5229.5	7170.2	10385.6	12875.7	9874.2	6917.0	5127.0	4282.6	4145.9
65°	3076.2	3129.4	4215.5	6123.3	9926.1	12830.1	9456.4	6063.8	4245.9	3277.5	3125.6
67.5°	1162.1	1168.4	1555.8	3052.1	7066.4	11038.9	7217.0	3299.0	1788.8	1293.8	1246.9
70°	482.3	491.2	570.9	1026.7	3037.0	7087.9	3480.0	1190.0	654.5	530.4	522.8
72.5°	353.2	358.3	382.3	455.7	934.3	2910.4	1144.4	505.1	383.6	343.1	339.3
75°	277.2	279.8	297.5	335.5	435.5	806.4	476.0	346.9	292.4	263.3	260.8
77.5°	211.4	217.7	230.4	255.7	292.4	382.3	315.2	259.5	225.3	201.3	197.5
80°	145.6	153.2	177.2	187.4	196.2	248.1	215.2	196.2	176.0	146.8	138.0
82.5°	89.9	94.9	119.0	127.9	124.1	139.3	138.0	140.5	125.3	91.1	84.8
85°	46.8	49.4	64.6	67.1	62.0	57.0	70.9	82.3	77.2	51.9	50.6
87.5°	10.1	11.4	13.9	12.7	13.9	13.9	17.7	26.6	27.9	17.7	16.5
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)