

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: P456746

Luminaire Tested: **GALN-SA8A-740-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456746  
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-SA8A-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38649 lumens  
Efficiency: N/A  
Efficacy: 158.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

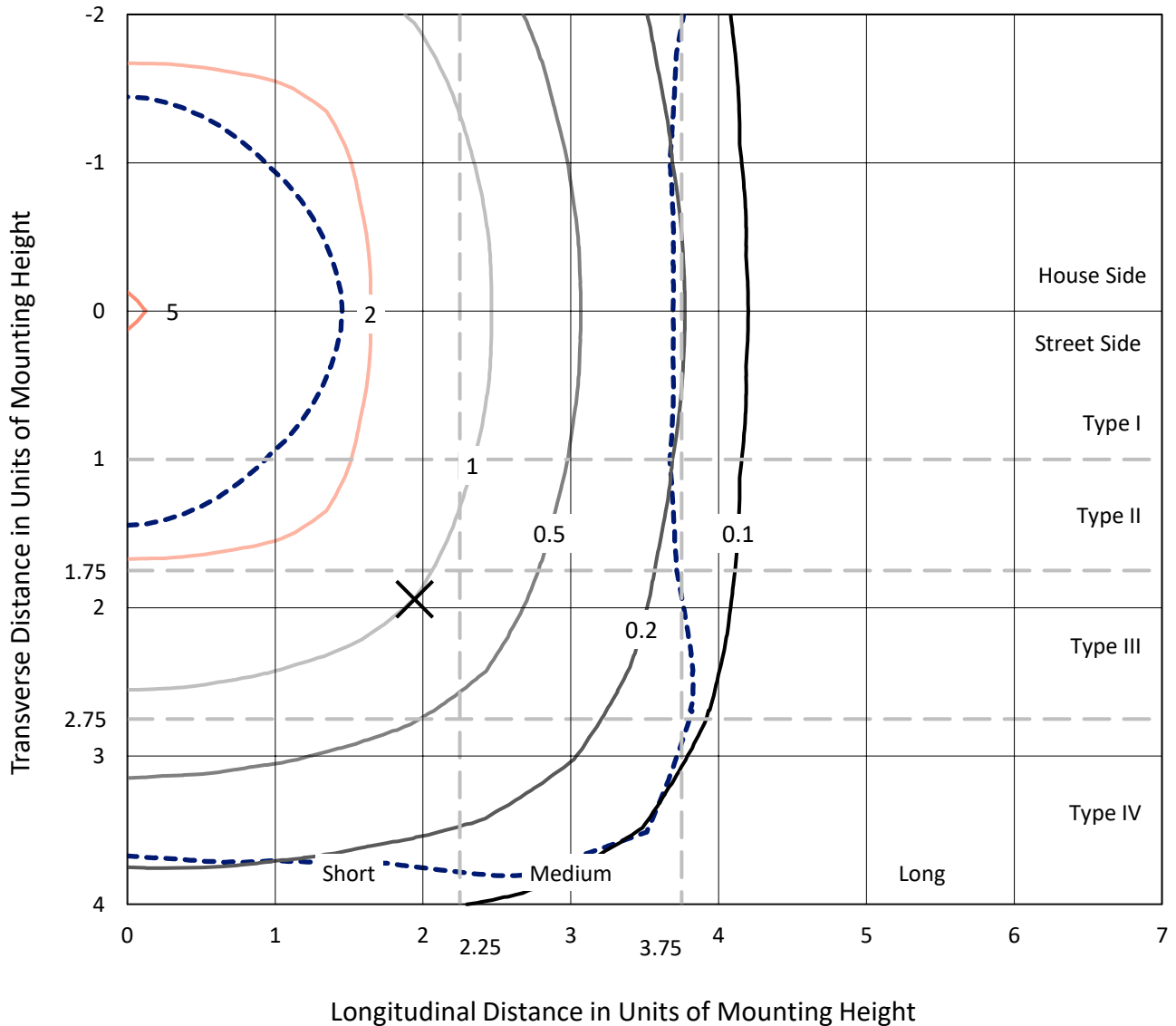
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

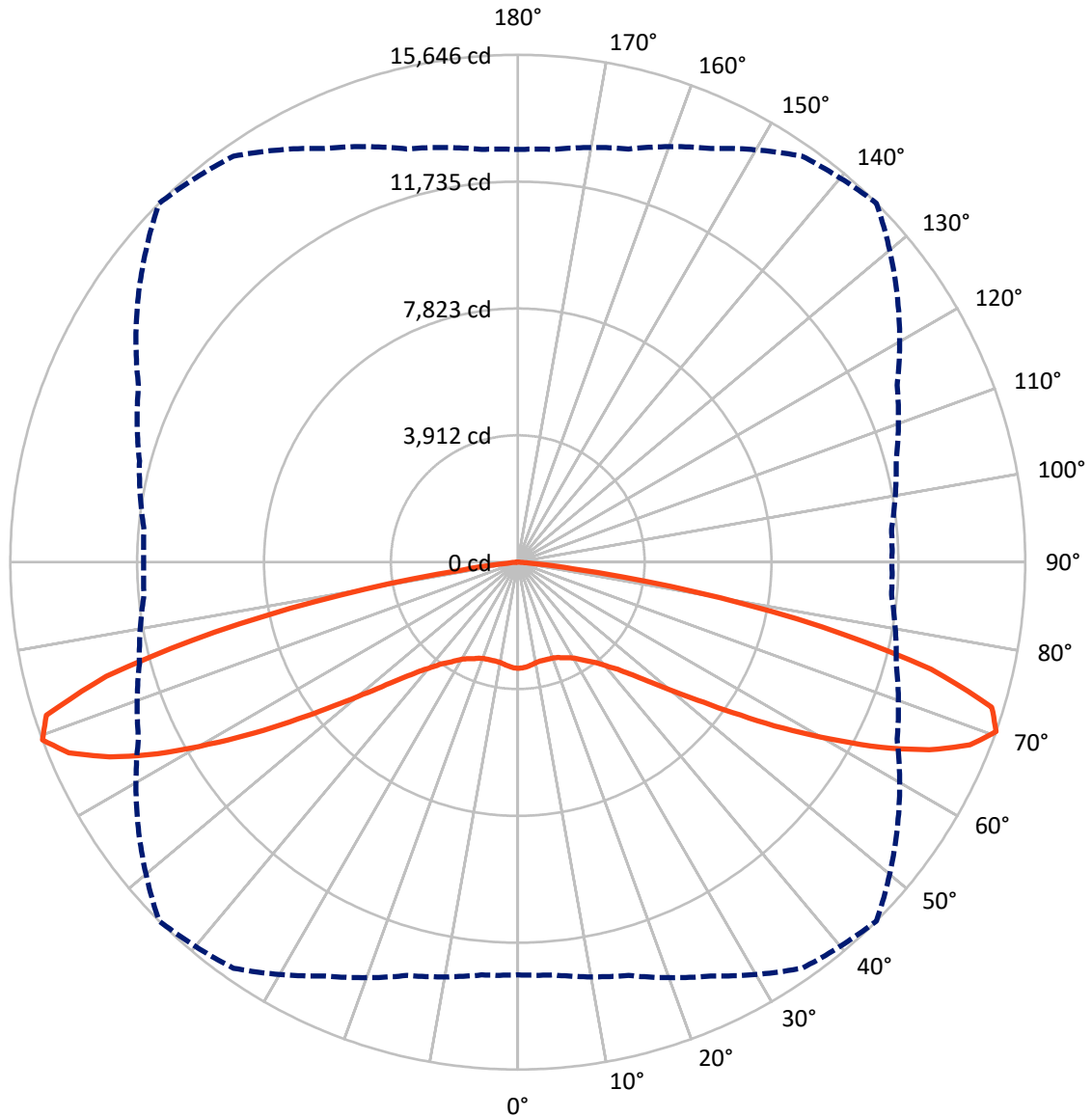
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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
<b>House Side</b>	Lumens	19324.5	0.0	19324.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19324.5	0.0	19324.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38649.0	0.0	38649.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.0	0.8
10°-20°	895.8	2.3
20°-30°	1526.3	3.9
30°-40°	2365.8	6.1
40°-50°	3981.9	10.3
50°-60°	7244.9	18.7
60°-70°	12265.4	31.7
70°-80°	9493.9	24.6
80°-90°	568.9	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°	38649.0	100.0
0°-180°	38649.0	100.0



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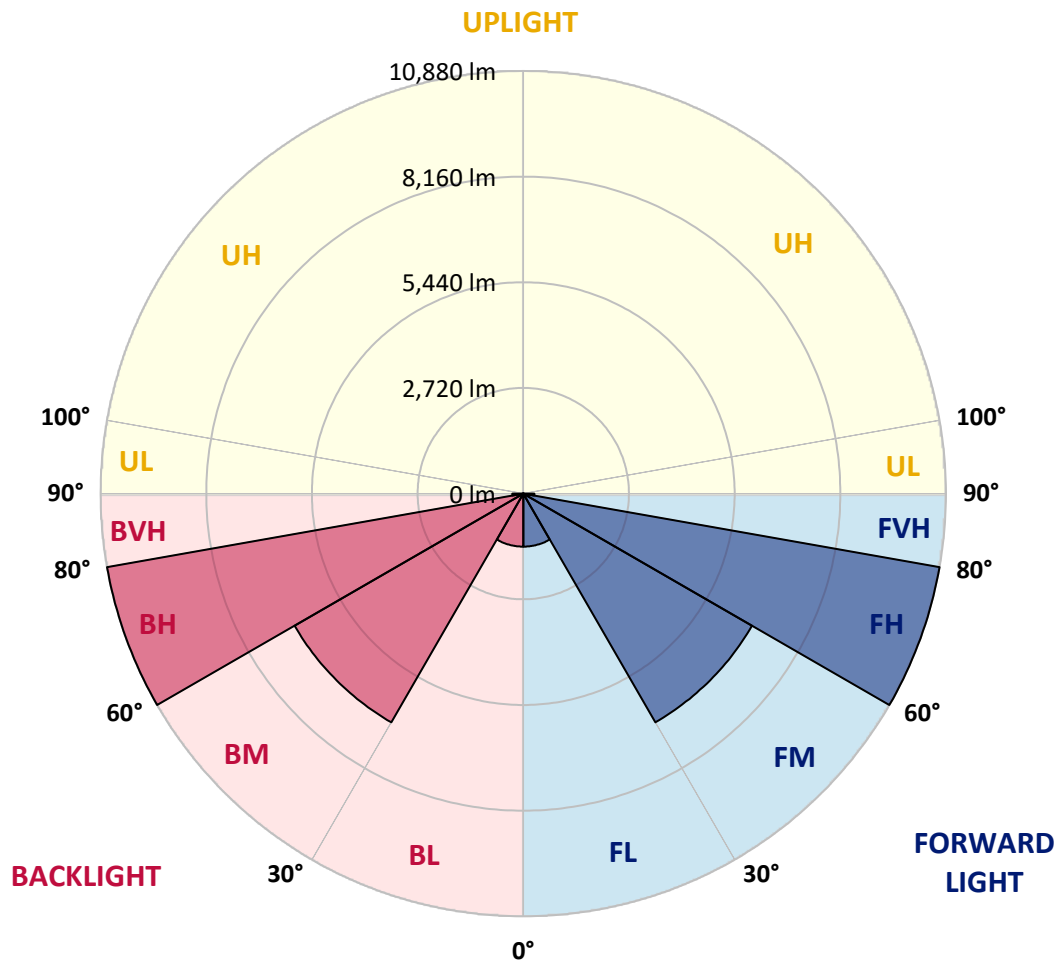
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1364.1	3.5			
FM	(30°-60°)	6796.3	17.6			
FH	(60°-80°)	10879.7	28.1			G4/12000
FVH	(80°-90°)	284.4	0.7			G3/500
BL	(0°-30°)	1364.1	3.5	B3/2500		
BM	(30°-60°)	6796.3	17.6	B4/8500		
BH	(60°-80°)	10879.7	28.1	B5		G4/12000
BVH	(80°-90°)	284.4	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°	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1
2.5°	3263.9	3266.0	3266.0	3261.9	3259.9	3259.9	3257.8	3257.8	3263.9	3266.0	3268.0
5°	3235.4	3235.4	3235.4	3233.3	3229.2	3229.2	3225.2	3225.2	3227.2	3233.3	3229.2
7.5°	3196.6	3200.7	3200.7	3192.5	3186.4	3186.4	3184.3	3186.4	3188.4	3194.5	3192.5
10°	3184.3	3186.4	3176.2	3161.9	3151.7	3145.6	3147.6	3151.7	3161.9	3166.0	3168.0
12.5°	3192.5	3192.5	3174.1	3153.7	3135.3	3127.2	3125.1	3139.4	3157.8	3170.0	3174.1
15°	3202.7	3198.6	3176.2	3149.6	3131.3	3129.2	3127.2	3137.4	3163.9	3188.4	3190.5
17.5°	3208.8	3206.8	3178.2	3145.6	3135.3	3135.3	3133.3	3141.5	3170.0	3200.7	3202.7
20°	3229.2	3223.1	3190.5	3155.8	3147.6	3151.7	3145.6	3155.8	3186.4	3223.1	3231.3
22.5°	3270.1	3263.9	3231.3	3196.6	3192.5	3192.5	3190.5	3200.7	3233.3	3272.1	3278.2
25°	3319.1	3312.9	3282.3	3257.8	3261.9	3270.1	3266.0	3268.0	3294.6	3327.2	3337.4
27.5°	3384.4	3374.2	3347.6	3327.2	3339.5	3339.5	3339.5	3337.4	3353.8	3384.4	3394.6
30°	3464.0	3459.9	3431.3	3429.3	3439.5	3429.3	3429.3	3431.3	3433.4	3461.9	3472.2
32.5°	3568.1	3559.9	3545.6	3541.6	3570.1	3578.3	3549.7	3523.2	3537.5	3566.1	3572.2
35°	3739.6	3727.3	3706.9	3684.4	3706.9	3745.7	3684.4	3664.0	3700.8	3739.6	3743.6
37.5°	3972.3	3966.1	3933.5	3892.6	3890.6	3931.4	3868.2	3866.1	3935.5	3982.5	3988.6
40°	4264.2	4270.3	4229.5	4190.7	4170.3	4202.9	4153.9	4172.3	4239.7	4292.7	4288.6
42.5°	4674.4	4652.0	4588.7	4552.0	4529.5	4517.3	4505.0	4533.6	4609.1	4666.3	4711.2
45°	5154.1	5146.0	5066.4	5021.5	4972.5	4954.1	4950.0	5001.0	5092.9	5162.3	5168.4
47.5°	5697.1	5678.7	5627.7	5580.8	5562.4	5539.9	5519.5	5558.3	5650.2	5699.1	5713.4
50°	6256.4	6260.5	6260.5	6252.3	6270.7	6274.8	6219.7	6234.0	6285.0	6280.9	6276.8
52.5°	6895.3	6917.8	7023.9	7034.1	7121.9	7181.1	7081.1	7021.9	7003.5	6893.3	6901.4
55°	7646.5	7666.9	7826.1	7985.3	8222.1	8322.1	8111.9	7928.2	7797.5	7630.2	7638.3
57.5°	8583.4	8593.6	8744.7	9050.9	9426.5	9661.2	9291.7	8928.4	8663.0	8503.8	8440.5
60°	9591.8	9602.0	9822.5	10196.0	10779.8	11065.6	10608.3	10014.3	9679.6	9436.7	9453.0
62.5°	10802.3	10843.1	11041.1	11555.5	12263.8	12584.3	11978.0	11184.0	10730.8	10428.7	10441.0
65°	12098.4	12167.8	12384.2	12949.6	13602.8	13947.8	13204.8	12288.3	11724.9	11355.4	11394.2
67.5°	12939.4	13000.7	13313.0	13937.6	14752.1	15037.8	14078.4	13010.9	12306.6	11865.7	11784.1
70°	12725.1	12776.1	13192.5	14078.4	15284.8	15646.1	14286.7	12904.7	12076.0	11567.7	11535.1
72.5°	11233.0	11126.8	11735.1	13006.8	14676.5	15282.8	13631.4	11786.1	10743.1	10220.5	10159.3
75°	7444.4	7675.1	8573.2	10071.5	12416.9	13168.1	11635.1	9463.2	8150.7	7715.9	7648.5
77.5°	2488.3	2665.9	3464.0	5709.4	8465.0	9593.8	8477.3	6189.0	4378.5	3527.3	3543.6
80°	659.3	651.2	843.0	1569.7	3657.9	5556.3	4258.0	2096.4	1147.2	830.8	787.9
82.5°	236.8	265.4	340.9	434.8	969.6	1726.9	1218.6	587.9	430.7	318.4	308.2
85°	104.1	102.1	147.0	173.5	242.9	322.5	285.8	249.0	218.4	144.9	134.7
87.5°	22.5	22.5	34.7	26.5	42.9	42.9	53.1	63.3	65.3	42.9	34.7
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)