

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: P454888

Luminaire Tested: **GALN-SA6A-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28442 lumens
Efficiency: N/A
Efficacy: 156.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

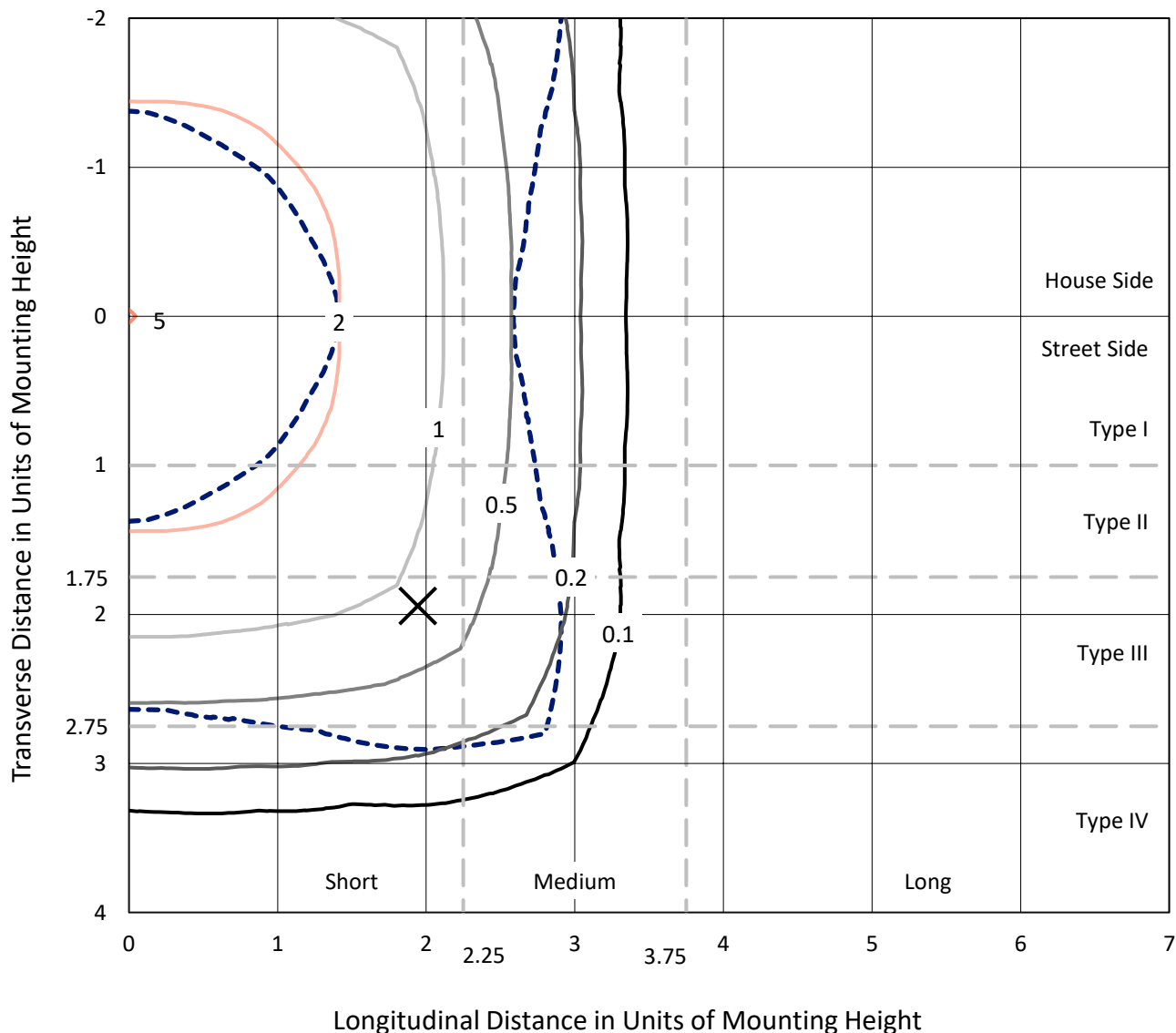
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

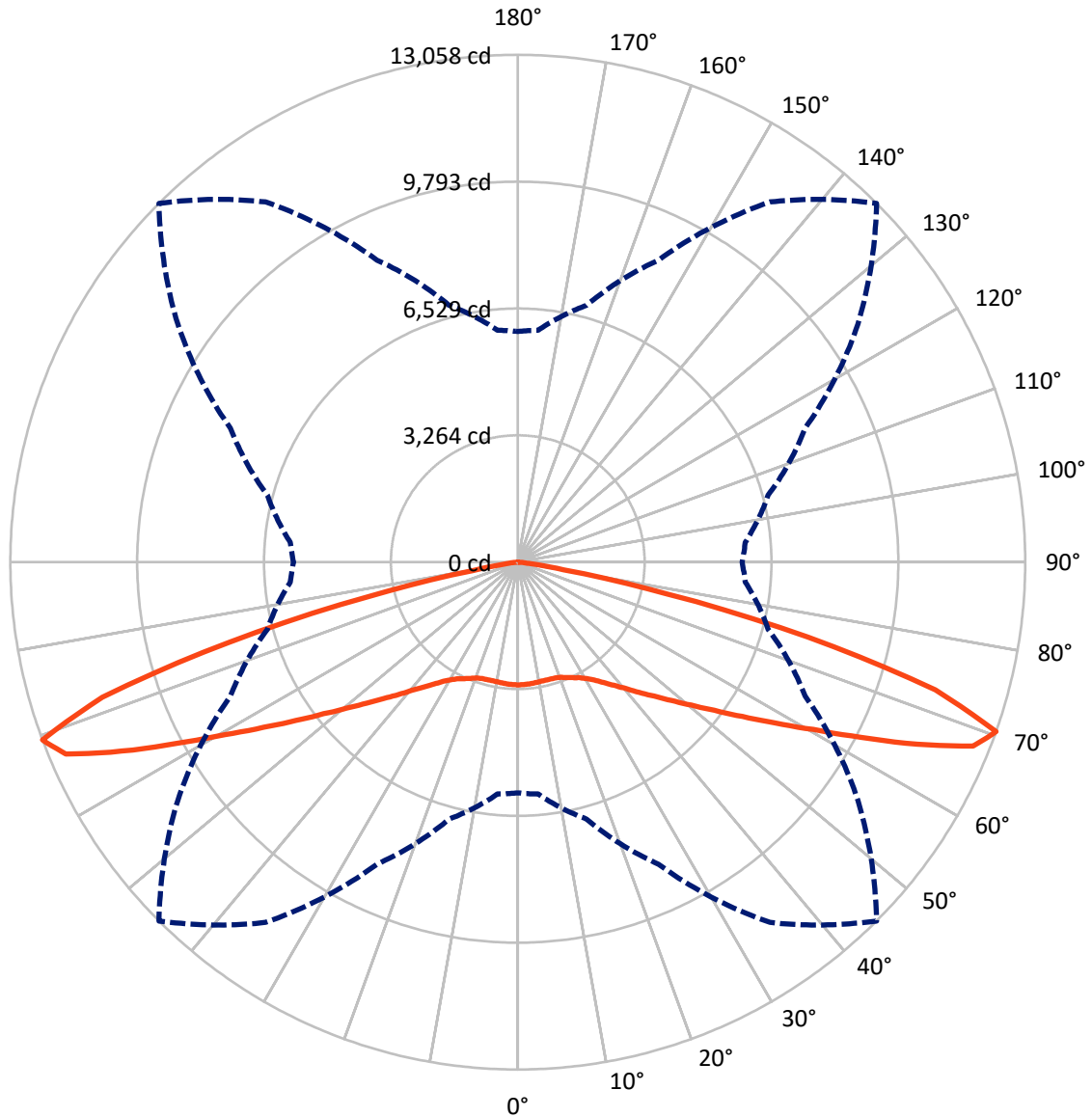
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	14221.0	0.0	14221.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14221.0	0.0	14221.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28442.0	0.0	28442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.5	1.1
10°-20°	878.9	3.1
20°-30°	1503.1	5.3
30°-40°	2385.8	8.4
40°-50°	3848.9	13.5
50°-60°	6262.3	22.0
60°-70°	9078.0	31.9
70°-80°	4026.7	14.2
80°-90°	158.8	0.6
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°	28442.0	100.0
0°-180°	28442.0	100.0

Coefficient of Utilization



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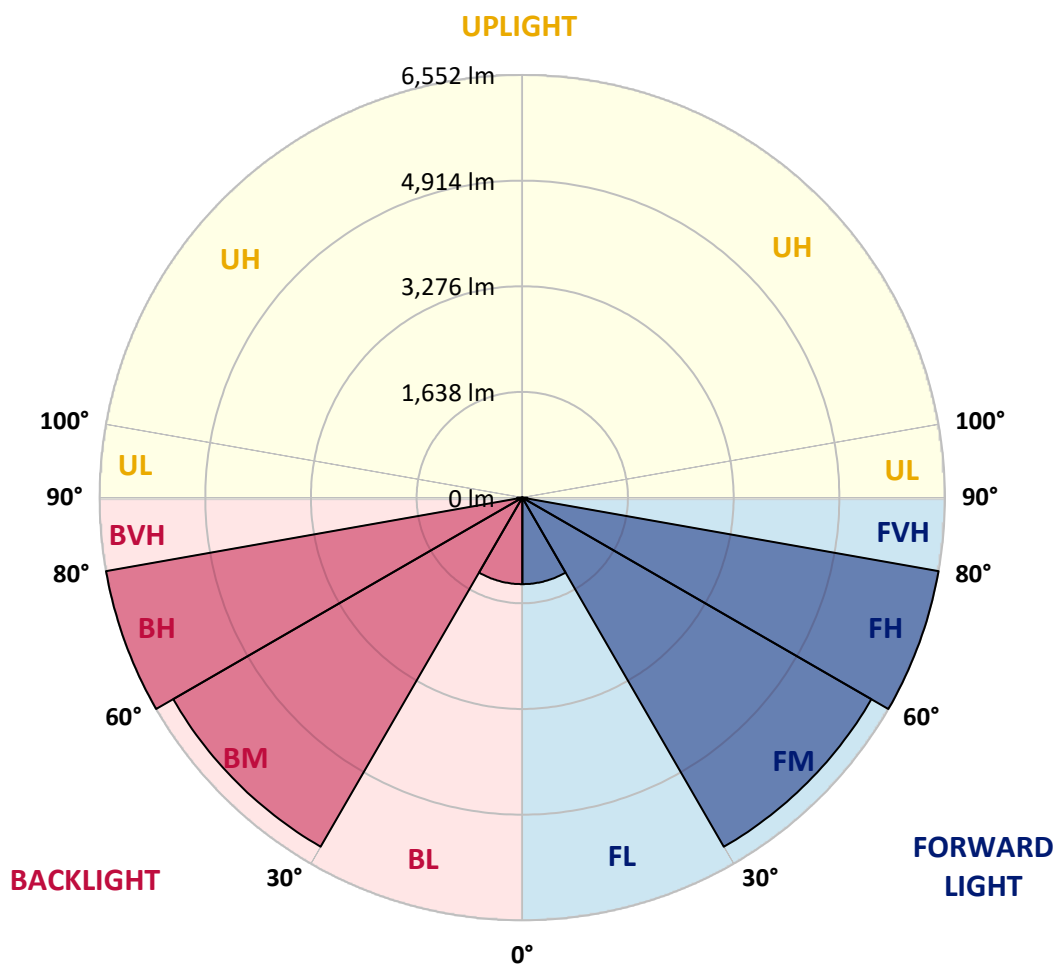
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1340.8	4.7			
FM	(30°-60°)	6248.5	22.0			
FH	(60°-80°)	6552.4	23.0			G3/7500
FVH	(80°-90°)	79.4	0.3			G1/100
BL	(0°-30°)	1340.8	4.7	B3/2500		
BM	(30°-60°)	6248.5	22.0	B4/8500		
BH	(60°-80°)	6552.4	23.0	B5		G3/7500
BVH	(80°-90°)	79.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4
2.5°	3158.4	3161.3	3156.9	3153.9	3152.4	3152.4	3150.9	3152.4	3161.3	3162.8	3158.4
5°	3149.4	3152.4	3150.9	3147.9	3146.4	3146.4	3144.9	3143.4	3150.9	3153.9	3152.4
7.5°	3137.4	3138.9	3137.4	3135.9	3137.4	3135.9	3131.4	3128.4	3134.4	3134.4	3132.9
10°	3116.4	3119.4	3117.9	3119.4	3122.4	3122.4	3116.4	3110.4	3111.9	3108.9	3108.9
12.5°	3090.9	3095.4	3096.9	3102.9	3110.4	3119.4	3105.9	3092.4	3089.4	3087.9	3086.4
15°	3074.4	3078.9	3084.9	3090.9	3104.4	3123.9	3104.4	3083.4	3077.4	3071.4	3068.4
17.5°	3069.9	3075.9	3084.9	3093.9	3111.9	3131.4	3114.9	3093.9	3078.9	3069.9	3066.9
20°	3081.9	3086.4	3099.9	3116.4	3141.9	3161.3	3144.9	3122.4	3099.9	3086.4	3081.9
22.5°	3105.9	3113.4	3129.9	3159.8	3195.8	3224.3	3201.8	3164.3	3128.4	3110.4	3104.4
25°	3158.4	3164.3	3183.8	3224.3	3266.3	3293.3	3269.3	3225.8	3176.3	3152.4	3144.9
27.5°	3237.8	3246.8	3267.8	3315.7	3350.2	3365.2	3348.7	3318.7	3282.8	3257.3	3251.3
30°	3350.2	3360.7	3392.2	3443.2	3465.6	3474.6	3467.1	3447.7	3422.2	3395.2	3389.2
32.5°	3501.6	3507.6	3543.6	3591.6	3612.5	3615.5	3606.5	3597.6	3555.6	3510.6	3507.6
35°	3671.0	3681.5	3725.0	3781.9	3801.4	3802.9	3784.9	3771.4	3722.0	3686.0	3686.0
37.5°	3895.8	3900.3	3942.3	4006.8	4027.8	4021.8	4012.8	4000.8	3948.3	3901.8	3903.3
40°	4159.7	4168.7	4204.6	4279.6	4279.6	4272.1	4278.1	4269.1	4216.6	4171.7	4173.2
42.5°	4473.0	4477.5	4520.9	4600.4	4594.4	4579.4	4585.4	4573.4	4540.4	4489.4	4471.5
45°	4807.2	4825.2	4900.2	4976.6	4964.6	4916.7	4940.6	4937.6	4907.7	4831.2	4835.7
47.5°	5210.5	5240.4	5312.4	5403.8	5390.3	5315.4	5342.4	5360.4	5318.4	5234.4	5219.4
50°	5664.6	5684.1	5790.6	5876.0	5864.0	5784.6	5846.0	5849.0	5744.1	5625.7	5625.7
52.5°	6148.8	6168.3	6312.2	6445.6	6453.1	6337.7	6387.2	6384.2	6213.3	6057.4	6027.4
55°	6691.4	6700.4	6886.3	7082.7	7124.7	7012.2	7018.2	6958.3	6736.4	6555.0	6538.5
57.5°	7252.1	7285.0	7490.4	7745.2	7869.6	7800.7	7769.2	7608.8	7394.5	7186.1	7175.6
60°	7872.6	7874.1	8141.0	8442.3	8694.1	8740.6	8611.6	8397.3	8120.0	7844.2	7832.2
62.5°	8302.8	8367.3	8704.6	9214.2	9665.4	9926.2	9586.0	9136.3	8590.7	8145.5	8100.5
65°	8391.3	8434.8	8948.9	9812.3	10734.2	11296.3	10509.3	9553.0	8622.1	8028.5	7998.6
67.5°	7676.3	7722.7	8415.3	9740.4	11483.7	12636.4	11108.9	9352.1	8088.5	7354.0	7295.5
70°	5937.5	5989.9	6845.8	8574.2	11317.3	13057.6	10681.7	8157.4	6670.5	5877.5	5771.1
72.5°	3156.9	3350.2	4081.7	5885.0	9185.7	11242.3	8758.5	5952.4	4302.1	3516.6	3375.7
75°	1152.7	1176.7	1584.4	2609.7	5343.9	7709.3	5549.2	2839.1	1632.4	1260.6	1196.2
77.5°	476.7	475.2	521.6	788.5	1941.2	3948.3	2166.0	833.4	520.1	481.2	475.2
80°	281.8	281.8	310.3	328.3	511.2	1191.7	571.1	371.7	311.8	284.8	289.3
82.5°	125.9	133.4	196.4	206.9	247.3	326.8	275.8	236.8	203.9	140.9	127.4
85°	69.0	60.0	103.4	107.9	118.4	121.4	130.4	128.9	118.4	69.0	70.5
87.5°	13.5	16.5	30.0	22.5	25.5	22.5	30.0	42.0	43.5	24.0	19.5
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)