

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: P453032

Luminaire Tested: **GALN-SA4A-740-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453032  
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-SA4A-740-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 18974 lumens  
Efficiency: N/A  
Efficacy: 156.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

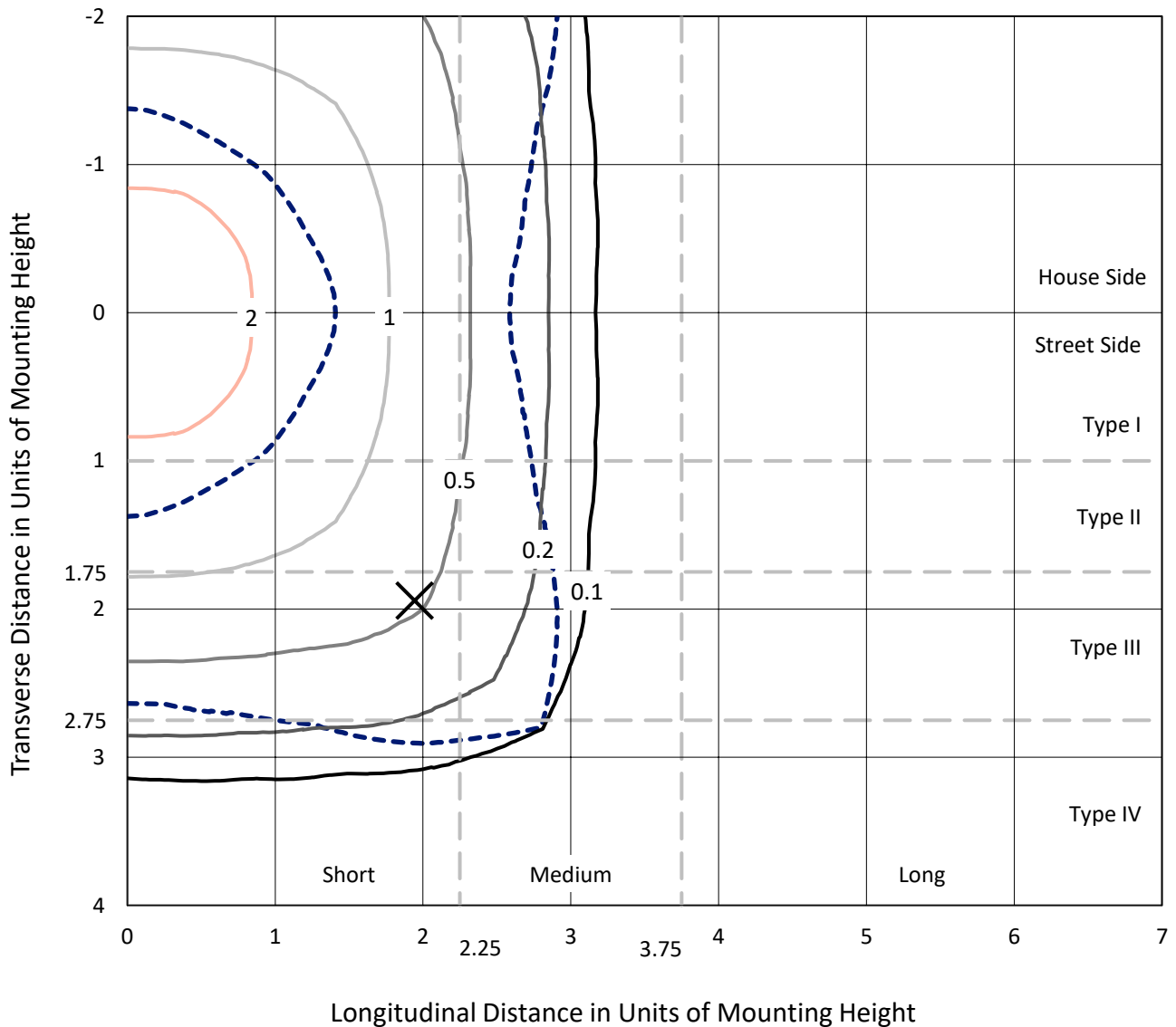
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

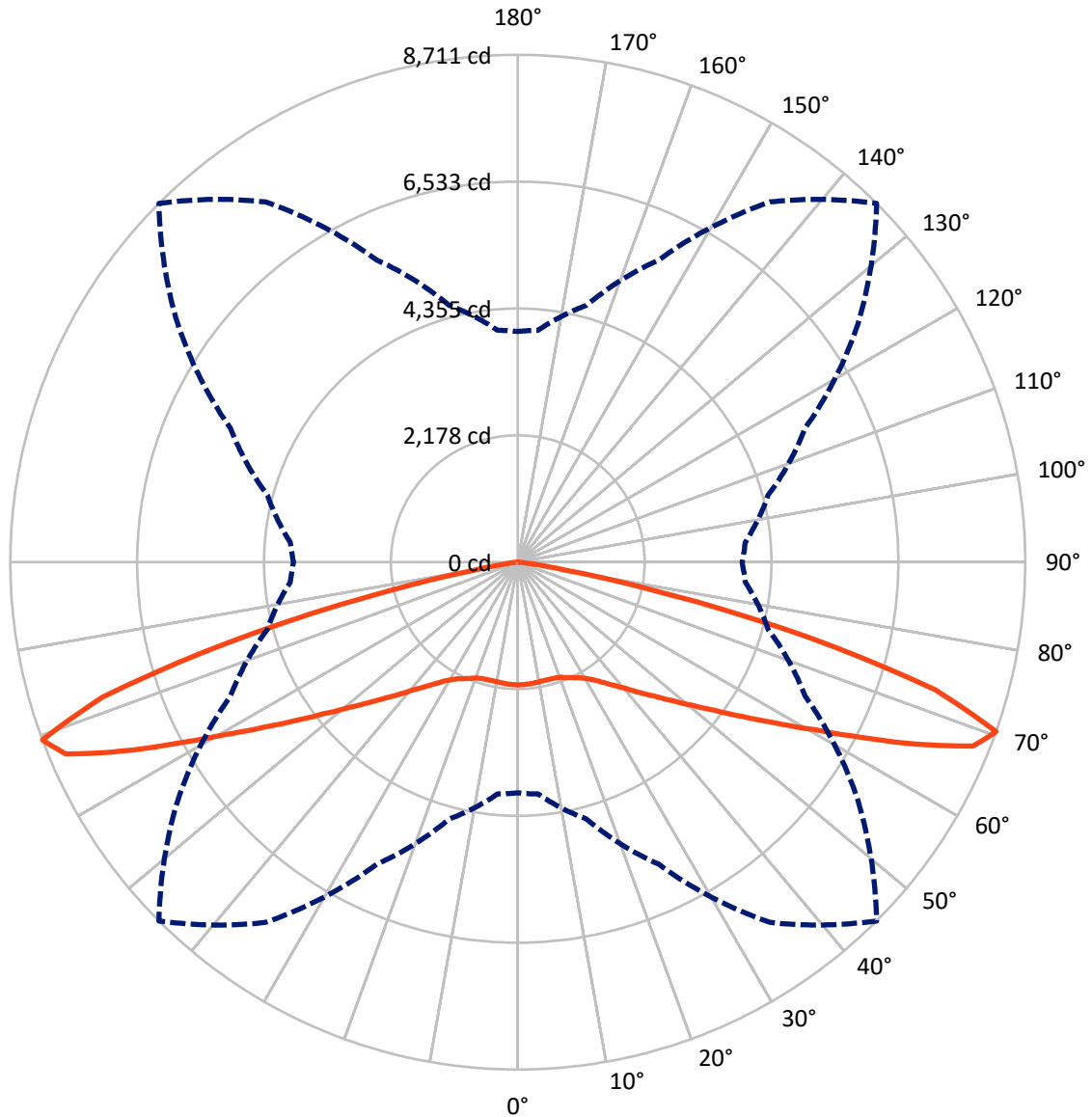
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	9487.0	0.0	9487.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9487.0	0.0	9487.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18974.0	0.0	18974.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.8	1.1
10°-20°	586.3	3.1
20°-30°	1002.8	5.3
30°-40°	1591.6	8.4
40°-50°	2567.7	13.5
50°-60°	4177.6	22.0
60°-70°	6056.0	31.9
70°-80°	2686.3	14.2
80°-90°	105.9	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°	18974.0	100.0
0°-180°	18974.0	100.0



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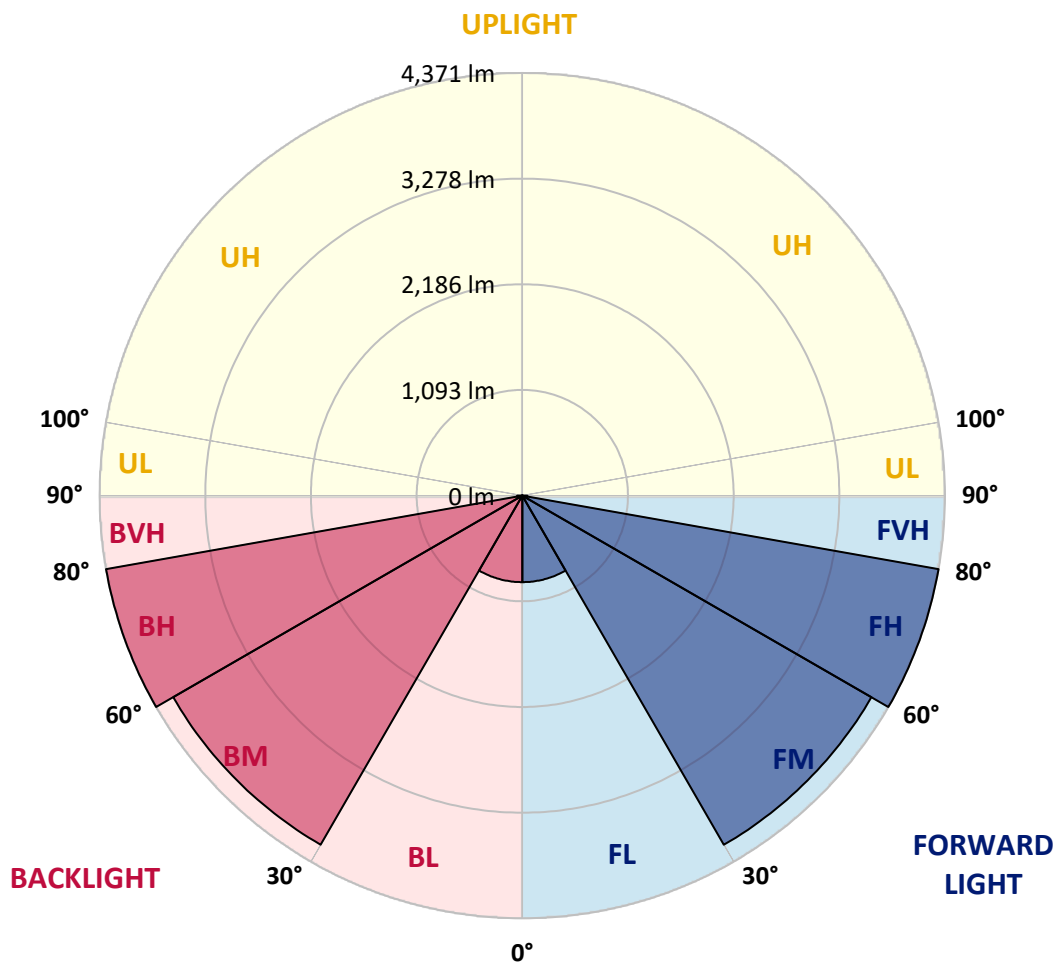
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	894.4	4.7			
FM	(30°-60°)	4168.5	22.0			
FH	(60°-80°)	4371.1	23.0			G2/5000
FVH	(80°-90°)	53.0	0.3			G1/100
BL	(0°-30°)	894.4	4.7	B2/1000		
BM	(30°-60°)	4168.5	22.0	B3/5000		
BH	(60°-80°)	4371.1	23.0	B4/5000		G2/5000
BVH	(80°-90°)	53.0	0.3			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°	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0	2107.0
2.5°	2107.0	2109.0	2106.0	2104.0	2103.0	2103.0	2102.0	2103.0	2109.0	2110.0	2107.0
5°	2101.0	2103.0	2102.0	2100.0	2099.0	2099.0	2098.0	2097.0	2102.0	2104.0	2103.0
7.5°	2093.0	2094.0	2093.0	2092.0	2093.0	2092.0	2089.0	2087.0	2091.0	2091.0	2090.0
10°	2079.0	2081.0	2080.0	2081.0	2083.0	2083.0	2079.0	2075.0	2076.0	2074.0	2074.0
12.5°	2062.0	2065.0	2066.0	2070.0	2075.0	2081.0	2072.0	2063.0	2061.0	2060.0	2059.0
15°	2051.0	2054.0	2058.0	2062.0	2071.0	2084.0	2071.0	2057.0	2053.0	2049.0	2047.0
17.5°	2048.0	2052.0	2058.0	2064.0	2076.0	2089.0	2078.0	2064.0	2054.0	2048.0	2046.0
20°	2056.0	2059.0	2068.0	2079.0	2096.0	2109.0	2098.0	2083.0	2068.0	2059.0	2056.0
22.5°	2072.0	2077.0	2088.0	2108.0	2132.0	2151.0	2136.0	2111.0	2087.0	2075.0	2071.0
25°	2107.0	2111.0	2124.0	2151.0	2179.0	2197.0	2181.0	2152.0	2119.0	2103.0	2098.0
27.5°	2160.0	2166.0	2180.0	2212.0	2235.0	2245.0	2234.0	2214.0	2190.0	2173.0	2169.0
30°	2235.0	2242.0	2263.0	2297.0	2312.0	2318.0	2313.0	2300.0	2283.0	2265.0	2261.0
32.5°	2336.0	2340.0	2364.0	2396.0	2410.0	2412.0	2406.0	2400.0	2372.0	2342.0	2340.0
35°	2449.0	2456.0	2485.0	2523.0	2536.0	2537.0	2525.0	2516.0	2483.0	2459.0	2459.0
37.5°	2599.0	2602.0	2630.0	2673.0	2687.0	2683.0	2677.0	2669.0	2634.0	2603.0	2604.0
40°	2775.0	2781.0	2805.0	2855.0	2855.0	2850.0	2854.0	2848.0	2813.0	2783.0	2784.0
42.5°	2984.0	2987.0	3016.0	3069.0	3065.0	3055.0	3059.0	3051.0	3029.0	2995.0	2983.0
45°	3207.0	3219.0	3269.0	3320.0	3312.0	3280.0	3296.0	3294.0	3274.0	3223.0	3226.0
47.5°	3476.0	3496.0	3544.0	3605.0	3596.0	3546.0	3564.0	3576.0	3548.0	3492.0	3482.0
50°	3779.0	3792.0	3863.0	3920.0	3912.0	3859.0	3900.0	3902.0	3832.0	3753.0	3753.0
52.5°	4101.9	4114.9	4210.9	4299.9	4304.9	4227.9	4260.9	4258.9	4144.9	4040.9	4020.9
55°	4463.9	4469.9	4593.9	4724.9	4752.9	4677.9	4681.9	4641.9	4493.9	4372.9	4361.9
57.5°	4837.9	4859.9	4996.9	5166.9	5249.9	5203.9	5182.9	5075.9	4932.9	4793.9	4786.9
60°	5251.9	5252.9	5430.9	5631.9	5799.9	5830.9	5744.9	5601.9	5416.9	5232.9	5224.9
62.5°	5538.9	5581.9	5806.9	6146.9	6447.9	6621.9	6394.9	6094.9	5730.9	5433.9	5403.9
65°	5597.9	5626.9	5969.9	6545.9	7160.9	7535.9	7010.9	6372.9	5751.9	5355.9	5335.9
67.5°	5120.9	5151.9	5613.9	6497.9	7660.9	8429.9	7410.9	6238.9	5395.9	4905.9	4866.9
70°	3960.9	3995.9	4566.9	5719.9	7549.9	8710.9	7125.9	5441.9	4449.9	3921.0	3850.0
72.5°	2106.0	2235.0	2723.0	3926.0	6127.9	7499.9	5842.9	3970.9	2870.0	2346.0	2252.0
75°	769.0	785.0	1057.0	1741.0	3565.0	5142.9	3702.0	1894.0	1089.0	841.0	798.0
77.5°	318.0	317.0	348.0	526.0	1295.0	2634.0	1445.0	556.0	347.0	321.0	317.0
80°	188.0	188.0	207.0	219.0	341.0	795.0	381.0	248.0	208.0	190.0	193.0
82.5°	84.0	89.0	131.0	138.0	165.0	218.0	184.0	158.0	136.0	94.0	85.0
85°	46.0	40.0	69.0	72.0	79.0	81.0	87.0	86.0	79.0	46.0	47.0
87.5°	9.0	11.0	20.0	15.0	17.0	15.0	20.0	28.0	29.0	16.0	13.0
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)