

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: P453469

Luminaire Tested: **GALN-SA4C-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453469  
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-SA4C-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 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: 26509 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

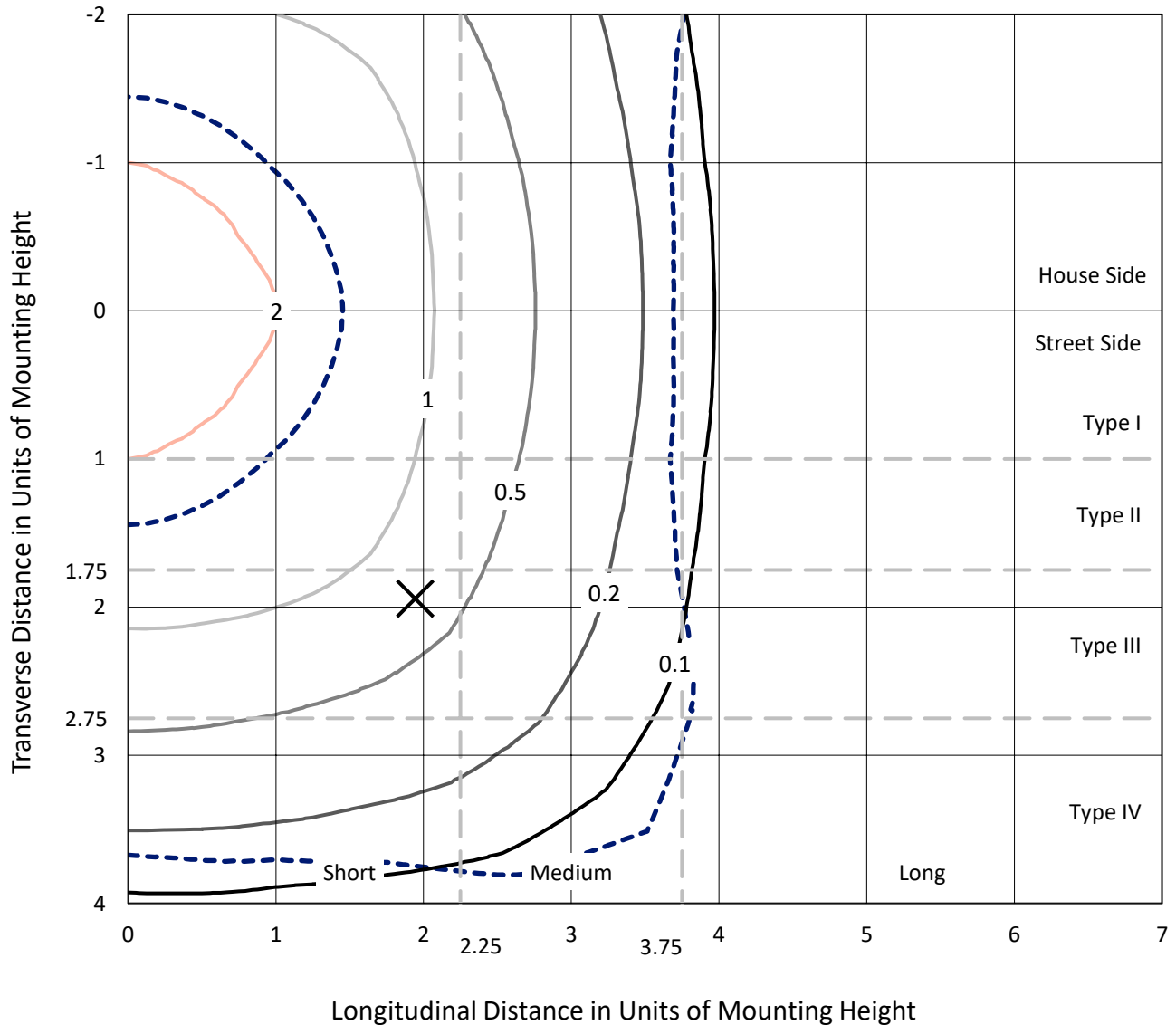
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

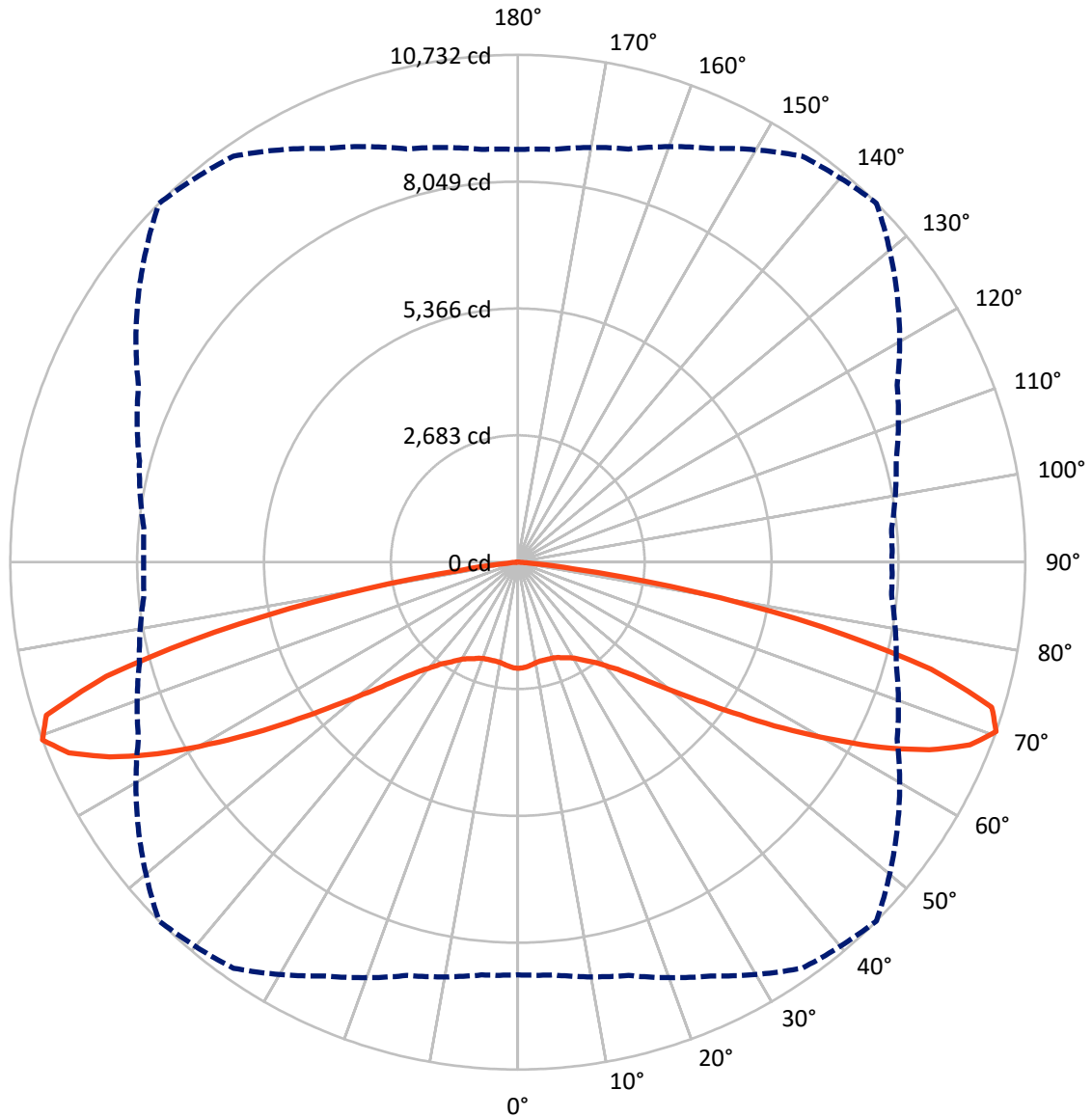
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P453469  
CATALOG NUMBER: GALN-SA4C-730-U-5WQ

### 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	13254.5	0.0	13254.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13254.5	0.0	13254.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26509.0	0.0	26509.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.9	0.8
10°-20°	614.4	2.3
20°-30°	1046.9	3.9
30°-40°	1622.6	6.1
40°-50°	2731.2	10.3
50°-60°	4969.2	18.7
60°-70°	8412.8	31.7
70°-80°	6511.8	24.6
80°-90°	390.2	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°	26509.0	100.0
0°-180°	26509.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P453469

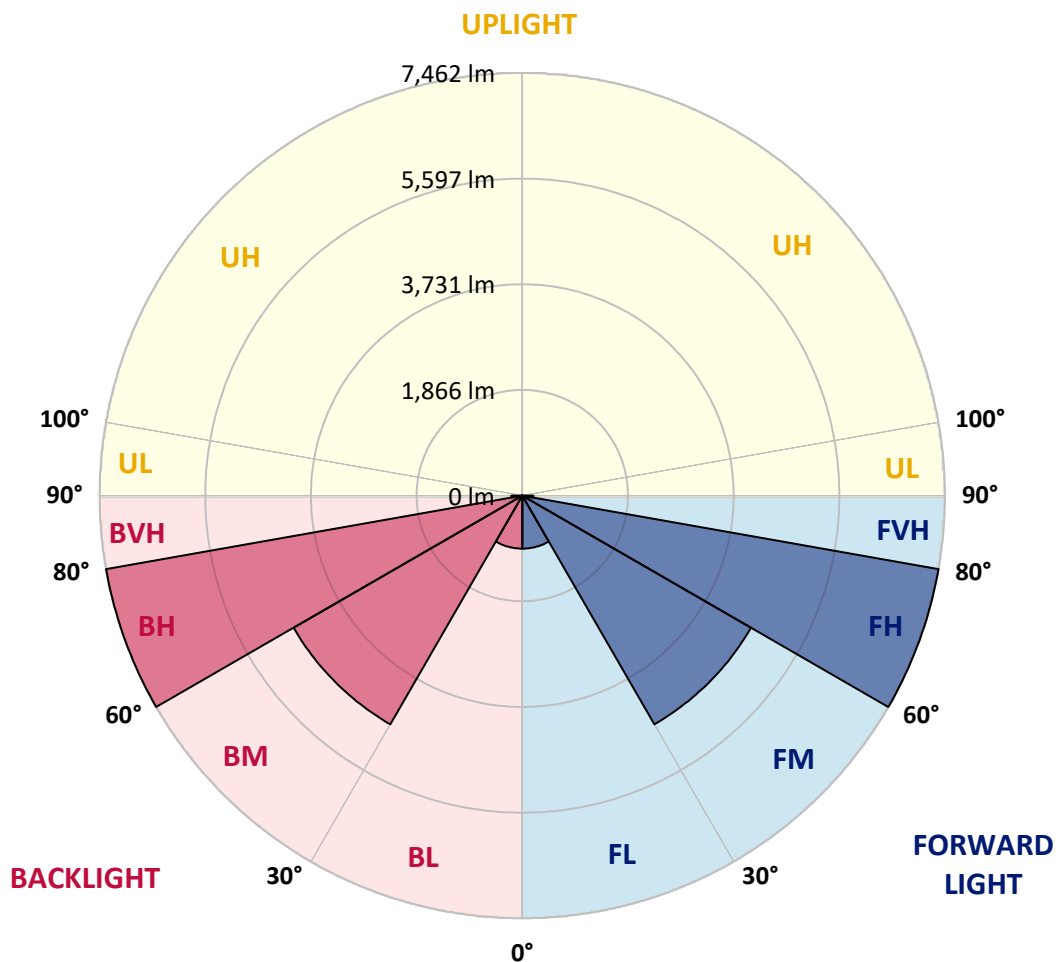
CATALOG NUMBER: GALN-SA4C-730-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	935.6	3.5			
FM (30°-60°)	4661.5	17.6			
FH (60°-80°)	7462.3	28.2			G3/7500
FVH (80°-90°)	195.1	0.7			G2/225
BL (0°-30°)	935.6	3.5	B2/1000		
BM (30°-60°)	4661.5	17.6	B3/5000		
BH (60°-80°)	7462.3	28.2	B5		G3/7500
BVH (80°-90°)	195.1	0.7			G2/225
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°	2244.3	2244.3	2244.3	2244.3	2244.3	2244.3	2244.3	2244.3	2244.3	2244.3	2244.3
2.5°	2238.7	2240.1	2240.1	2237.3	2235.9	2235.9	2234.5	2234.5	2238.7	2240.1	2241.5
5°	2219.1	2219.1	2219.1	2217.7	2214.9	2214.9	2212.1	2212.1	2213.5	2217.7	2214.9
7.5°	2192.5	2195.3	2195.3	2189.7	2185.5	2185.5	2184.1	2185.5	2186.9	2191.1	2189.7
10°	2184.1	2185.5	2178.5	2168.7	2161.7	2157.5	2158.9	2161.7	2168.7	2171.5	2172.9
12.5°	2189.7	2189.7	2177.1	2163.1	2150.5	2144.9	2143.5	2153.3	2165.9	2174.3	2177.1
15°	2196.7	2193.9	2178.5	2160.3	2147.7	2146.3	2144.9	2151.9	2170.1	2186.9	2188.3
17.5°	2200.9	2199.5	2179.9	2157.5	2150.5	2150.5	2149.1	2154.7	2174.3	2195.3	2196.7
20°	2214.9	2210.7	2188.3	2164.5	2158.9	2161.7	2157.5	2164.5	2185.5	2210.7	2216.3
22.5°	2242.9	2238.7	2216.3	2192.5	2189.7	2189.7	2188.3	2195.3	2217.7	2244.3	2248.5
25°	2276.5	2272.3	2251.3	2234.5	2237.3	2242.9	2240.1	2241.5	2259.7	2282.1	2289.1
27.5°	2321.3	2314.3	2296.1	2282.1	2290.5	2290.5	2290.5	2289.1	2300.3	2321.3	2328.3
30°	2375.9	2373.1	2353.5	2352.1	2359.1	2352.1	2352.1	2353.5	2354.9	2374.5	2381.5
32.5°	2447.3	2441.7	2431.9	2429.1	2448.7	2454.3	2434.7	2416.5	2426.3	2445.9	2450.1
35°	2564.9	2556.5	2542.5	2527.1	2542.5	2569.1	2527.1	2513.1	2538.3	2564.9	2567.7
37.5°	2724.5	2720.3	2697.9	2669.9	2668.5	2696.5	2653.1	2651.7	2699.3	2731.5	2735.7
40°	2924.7	2928.9	2900.9	2874.3	2860.3	2882.7	2849.1	2861.7	2907.9	2944.3	2941.5
42.5°	3206.2	3190.8	3147.4	3122.2	3106.8	3098.4	3090.0	3109.6	3161.4	3200.6	3231.4
45°	3535.2	3529.6	3475.0	3444.2	3410.6	3398.0	3395.2	3430.2	3493.2	3540.8	3545.0
47.5°	3907.6	3895.0	3860.0	3827.8	3815.2	3799.8	3785.8	3812.4	3875.4	3909.0	3918.8
50°	4291.2	4294.0	4294.0	4288.4	4301.0	4303.8	4266.0	4275.8	4310.8	4308.0	4305.2
52.5°	4729.4	4744.8	4817.6	4824.6	4884.8	4925.4	4856.8	4816.2	4803.6	4728.0	4733.6
55°	5244.7	5258.7	5367.9	5477.1	5639.5	5708.1	5563.9	5437.9	5348.3	5233.5	5239.1
57.5°	5887.3	5894.3	5997.9	6207.9	6465.5	6626.5	6373.1	6123.9	5941.9	5832.7	5789.3
60°	6578.9	6585.9	6737.1	6993.3	7393.8	7589.8	7276.2	6868.7	6639.1	6472.5	6483.7
62.5°	7409.2	7437.2	7573.0	7925.8	8411.6	8631.4	8215.6	7671.0	7360.2	7153.0	7161.4
65°	8298.2	8345.8	8494.2	8882.0	9330.1	9566.7	9057.0	8428.4	8042.0	7788.6	7815.2
67.5°	8875.0	8917.0	9131.3	9559.7	10118.3	10314.3	9656.3	8924.0	8441.0	8138.6	8082.6
70°	8728.0	8763.0	9048.6	9656.3	10483.7	10731.5	9799.1	8851.2	8282.8	7934.2	7911.8
72.5°	7704.6	7631.8	8049.0	8921.2	10066.5	10482.3	9349.7	8084.0	7368.6	7010.1	6968.1
75°	5106.1	5264.3	5880.3	6907.9	8516.6	9031.8	7980.4	6490.7	5590.5	5292.3	5246.1
77.5°	1706.7	1828.5	2375.9	3916.0	5806.1	6580.3	5814.5	4245.0	3003.1	2419.3	2430.5
80°	452.2	446.6	578.2	1076.7	2508.9	3811.0	2920.5	1437.9	786.8	569.8	540.4
82.5°	162.4	182.0	233.8	298.2	665.0	1184.5	835.8	403.2	295.4	218.4	211.4
85°	71.4	70.0	100.8	119.0	166.6	221.2	196.0	170.8	149.8	99.4	92.4
87.5°	15.4	15.4	23.8	18.2	29.4	29.4	36.4	43.4	44.8	29.4	23.8
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)