

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: P455789

Luminaire Tested: **GALN-SA7A-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455789  
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-SA7A-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 30360 lumens  
Efficiency: N/A  
Efficacy: 141.2 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

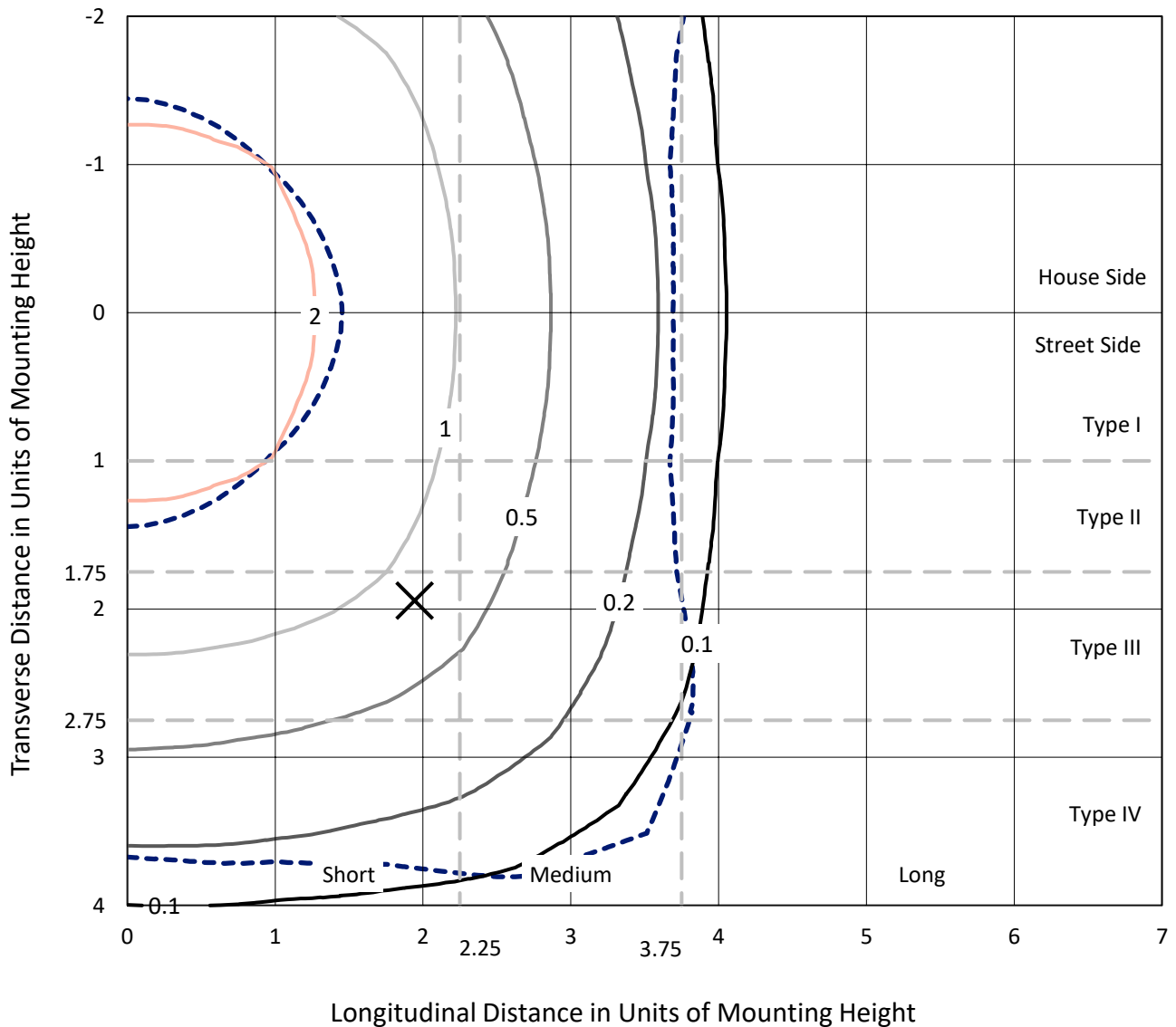
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

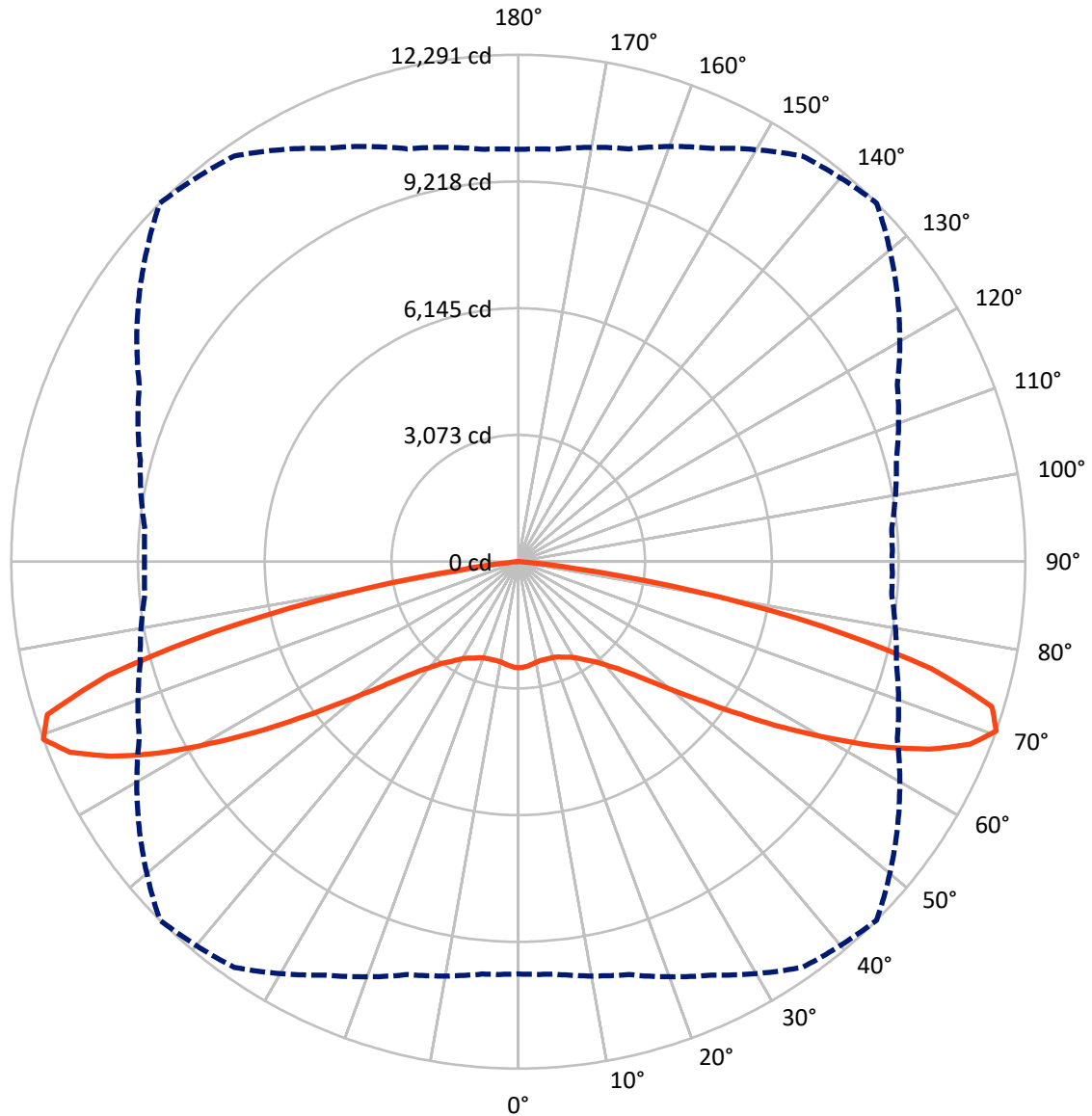
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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
<b>House Side</b>	Lumens	15180.0	0.0	15180.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15180.0	0.0	15180.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30360.0	0.0	30360.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.4	0.8
10°-20°	703.7	2.3
20°-30°	1199.0	3.9
30°-40°	1858.4	6.1
40°-50°	3127.9	10.3
50°-60°	5691.1	18.7
60°-70°	9634.9	31.7
70°-80°	7457.8	24.6
80°-90°	446.9	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°	30360.0	100.0
0°-180°	30360.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P455789

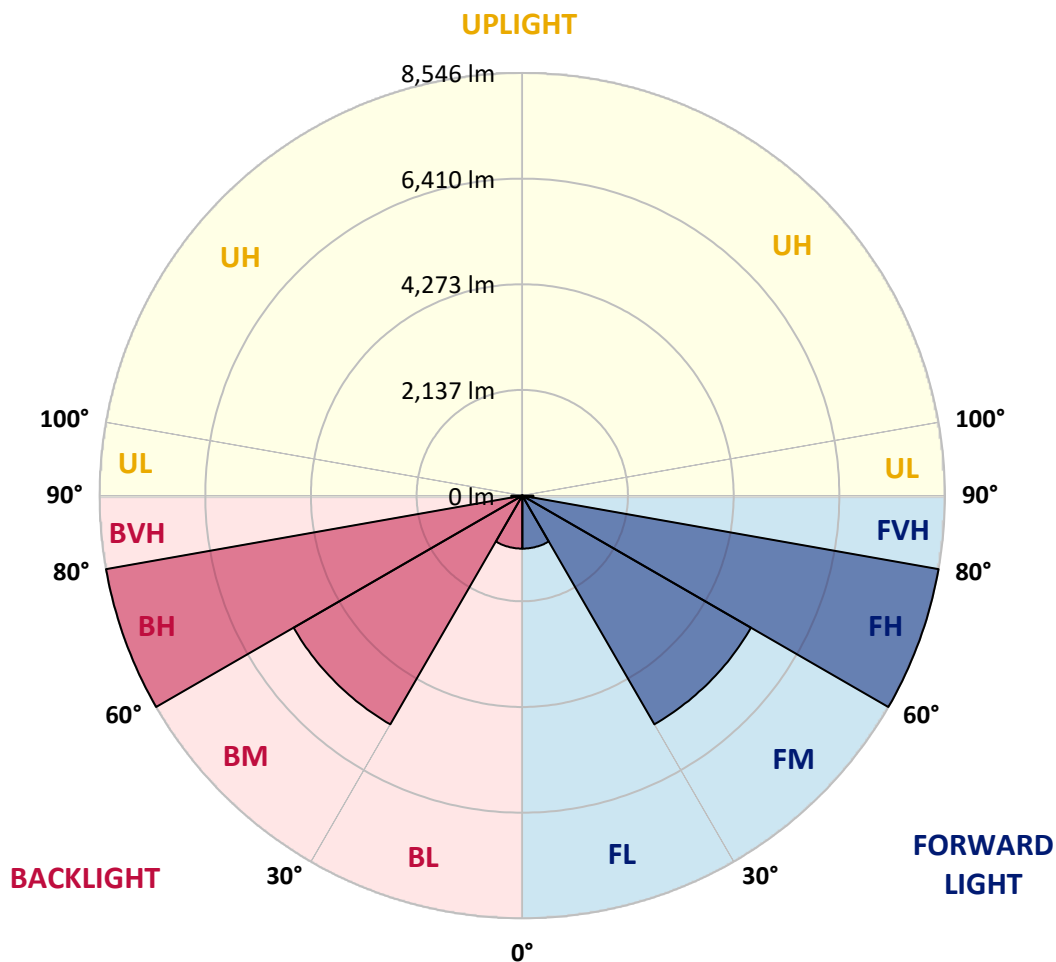
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1071.5	3.5			
FM (30°-60°)	5338.7	17.6			
FH (60°-80°)	8546.3	28.2			G4/12000
FVH (80°-90°)	223.4	0.7			G2/225
BL (0°-30°)	1071.5	3.5	B3/2500		
BM (30°-60°)	5338.7	17.6	B4/8500		
BH (60°-80°)	8546.3	28.2	B5		G4/12000
BVH (80°-90°)	223.4	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-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3	2570.3
2.5°	2563.9	2565.5	2565.5	2562.3	2560.7	2560.7	2559.1	2559.1	2563.9	2565.5	2567.1
5°	2541.5	2541.5	2541.5	2539.9	2536.7	2536.7	2533.5	2533.5	2535.1	2539.9	2536.7
7.5°	2511.0	2514.2	2514.2	2507.8	2503.0	2503.0	2501.4	2503.0	2504.6	2509.4	2507.8
10°	2501.4	2503.0	2495.0	2483.8	2475.7	2470.9	2472.5	2475.7	2483.8	2487.0	2488.6
12.5°	2507.8	2507.8	2493.4	2477.3	2462.9	2456.5	2454.9	2466.1	2480.6	2490.2	2493.4
15°	2515.8	2512.6	2495.0	2474.1	2459.7	2458.1	2456.5	2464.5	2485.4	2504.6	2506.2
17.5°	2520.6	2519.0	2496.6	2470.9	2462.9	2462.9	2461.3	2467.7	2490.2	2514.2	2515.8
20°	2536.7	2531.9	2506.2	2478.9	2472.5	2475.7	2470.9	2478.9	2503.0	2531.9	2538.3
22.5°	2568.7	2563.9	2538.3	2511.0	2507.8	2507.8	2506.2	2514.2	2539.9	2570.3	2575.2
25°	2607.2	2602.4	2578.4	2559.1	2562.3	2568.7	2565.5	2567.1	2588.0	2613.6	2621.7
27.5°	2658.5	2650.5	2629.7	2613.6	2623.3	2623.3	2623.3	2621.7	2634.5	2658.5	2666.6
30°	2721.1	2717.9	2695.4	2693.8	2701.8	2693.8	2693.8	2695.4	2697.0	2719.5	2727.5
32.5°	2802.8	2796.4	2785.2	2782.0	2804.5	2810.9	2788.4	2767.6	2778.8	2801.2	2806.1
35°	2937.5	2927.9	2911.9	2894.2	2911.9	2942.3	2894.2	2878.2	2907.1	2937.5	2940.7
37.5°	3120.3	3115.5	3089.9	3057.8	3056.2	3088.3	3038.6	3037.0	3091.5	3128.3	3133.2
40°	3349.6	3354.4	3322.4	3291.9	3275.9	3301.5	3263.0	3277.5	3330.4	3372.1	3368.9
42.5°	3671.9	3654.3	3604.6	3575.7	3558.1	3548.5	3538.8	3561.3	3620.6	3665.5	3700.8
45°	4048.7	4042.3	3979.8	3944.5	3906.0	3891.6	3888.4	3928.5	4000.6	4055.1	4060.0
47.5°	4475.3	4460.8	4420.7	4383.9	4369.4	4351.8	4335.8	4366.2	4438.4	4476.9	4488.1
50°	4914.6	4917.8	4917.8	4911.4	4925.8	4929.0	4885.7	4897.0	4937.1	4933.8	4930.6
52.5°	5416.5	5434.1	5517.5	5525.5	5594.5	5641.0	5562.4	5515.9	5501.5	5414.9	5421.3
55°	6006.6	6022.6	6147.7	6272.7	6458.7	6537.3	6372.1	6227.8	6125.2	5993.7	6000.1
57.5°	6742.5	6750.6	6869.2	7109.7	7404.8	7589.2	7298.9	7013.5	6805.1	6680.0	6630.3
60°	7534.7	7542.7	7715.8	8009.3	8467.9	8692.4	8333.2	7866.6	7603.6	7412.8	7425.6
62.5°	8485.5	8517.6	8673.1	9077.2	9633.6	9885.3	9409.1	8785.4	8429.4	8192.1	8201.7
65°	9503.7	9558.2	9728.2	10172.3	10685.5	10956.4	10372.8	9652.8	9210.3	8920.0	8950.5
67.5°	10164.3	10212.4	10457.8	10948.4	11588.2	11812.7	11059.1	10220.5	9667.3	9320.9	9256.8
70°	9996.0	10036.1	10363.2	11059.1	12006.7	12290.5	11222.6	10137.1	9486.1	9086.8	9061.2
72.5°	8823.8	8740.5	9218.3	10217.2	11528.9	12005.1	10707.9	9258.4	8439.0	8028.5	7980.4
75°	5847.8	6029.0	6734.5	7911.5	9753.8	10343.9	9139.7	7433.6	6402.6	6061.1	6008.2
77.5°	1954.6	2094.1	2721.1	4484.9	6649.5	7536.3	6659.2	4861.7	3439.4	2770.8	2783.6
80°	517.9	511.5	662.2	1233.1	2873.4	4364.6	3344.8	1646.8	901.1	652.6	618.9
82.5°	186.0	208.4	267.8	341.5	761.6	1356.5	957.3	461.8	338.3	250.1	242.1
85°	81.8	80.2	115.4	136.3	190.8	253.3	224.5	195.6	171.6	113.8	105.8
87.5°	17.6	17.6	27.3	20.8	33.7	33.7	41.7	49.7	51.3	33.7	27.3
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)