

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: P531681

Luminaire Tested: **GALN-SA7A-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531681  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-730-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19928 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

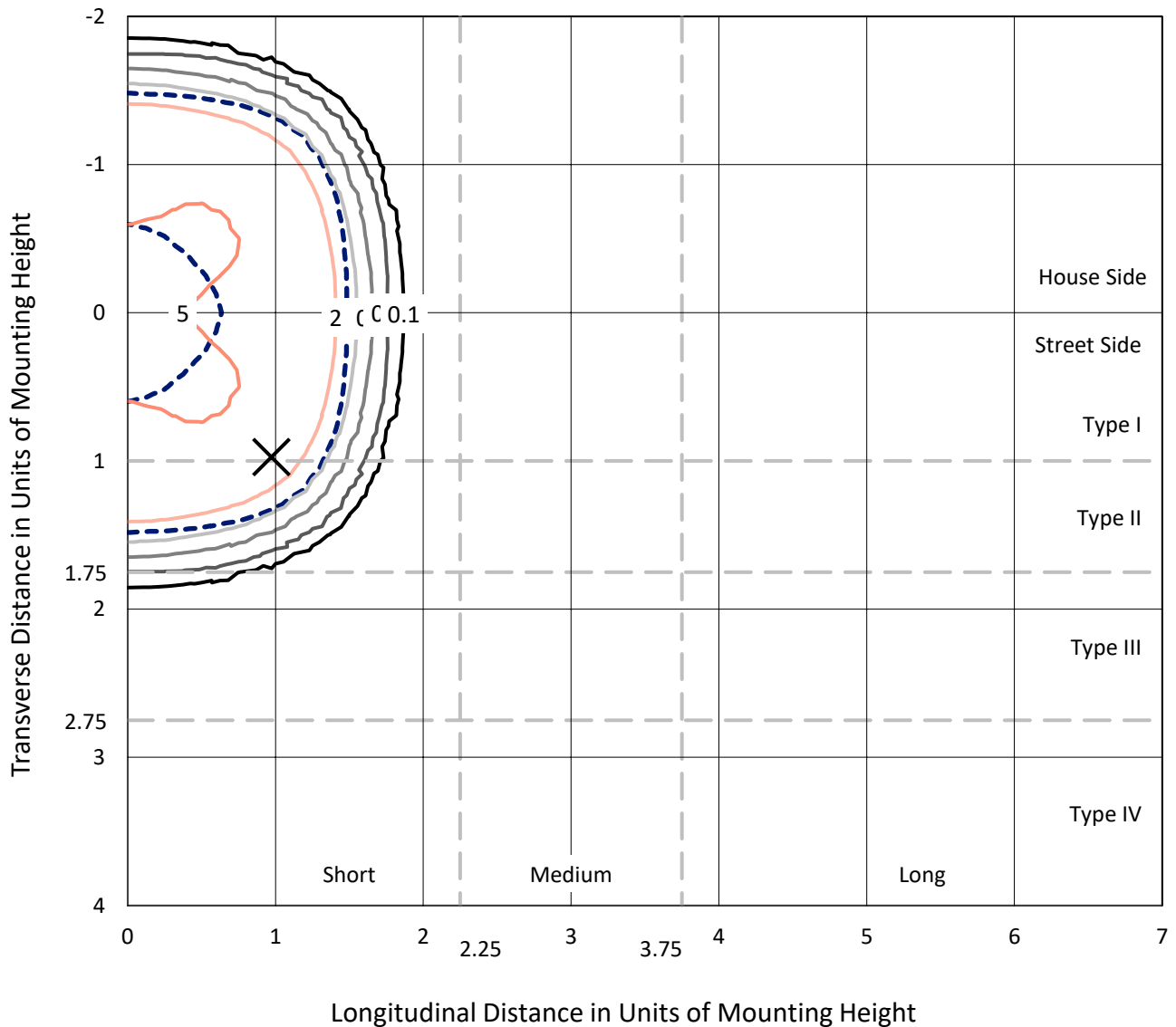
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

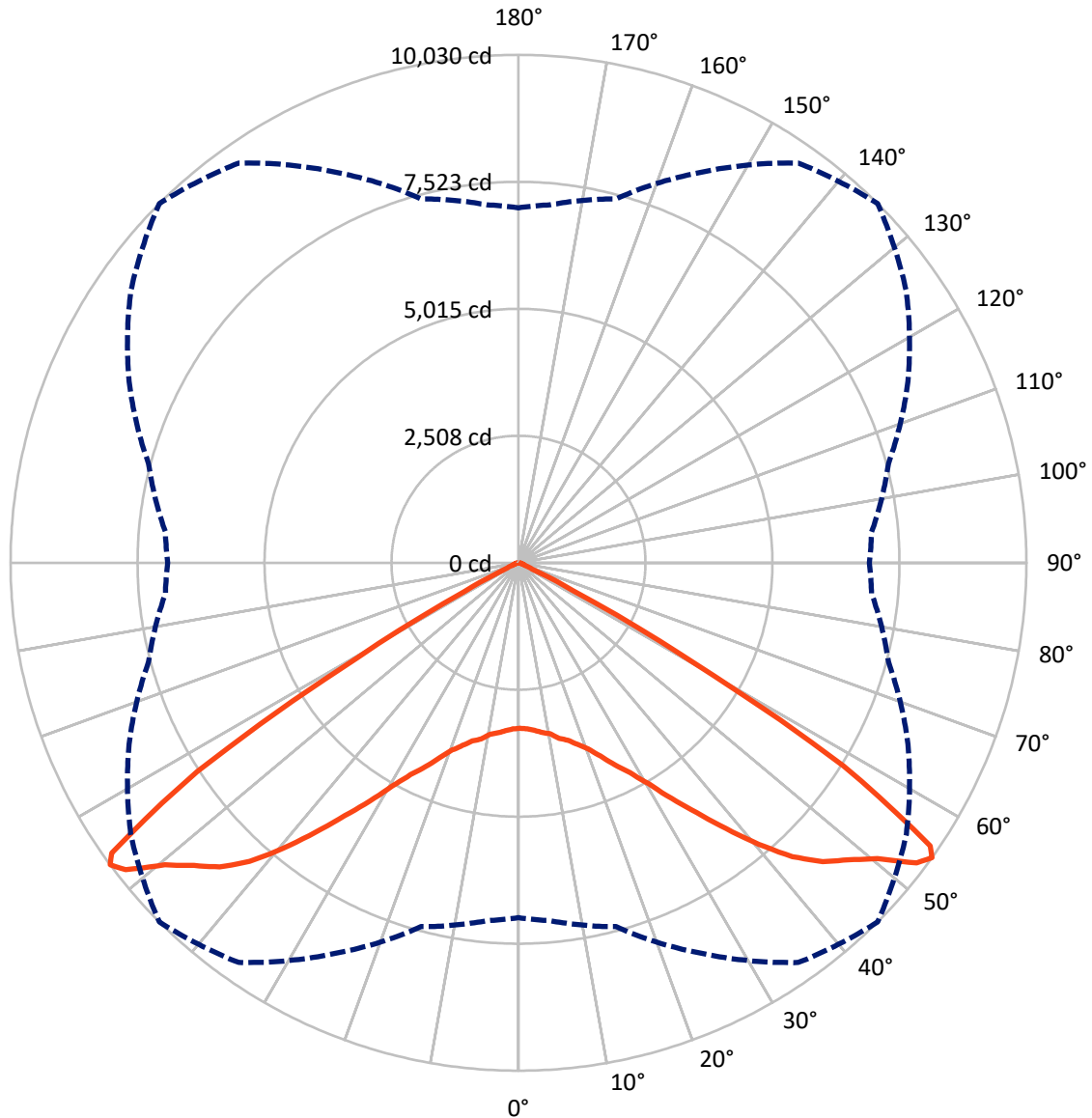
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9964.0	0.0	9964.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9964.0	0.0	9964.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19928.0	0.0	19928.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	319.8	1.6
10°-20°	1035.7	5.2
20°-30°	2029.9	10.2
30°-40°	3650.2	18.3
40°-50°	6248.4	31.4
50°-60°	6045.9	30.3
60°-70°	517.6	2.6
70°-80°	61.3	0.3
80°-90°	19.2	0.1
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°	19928.0	100.0
0°-180°	19928.0	100.0

**Coefficient of Utilization**



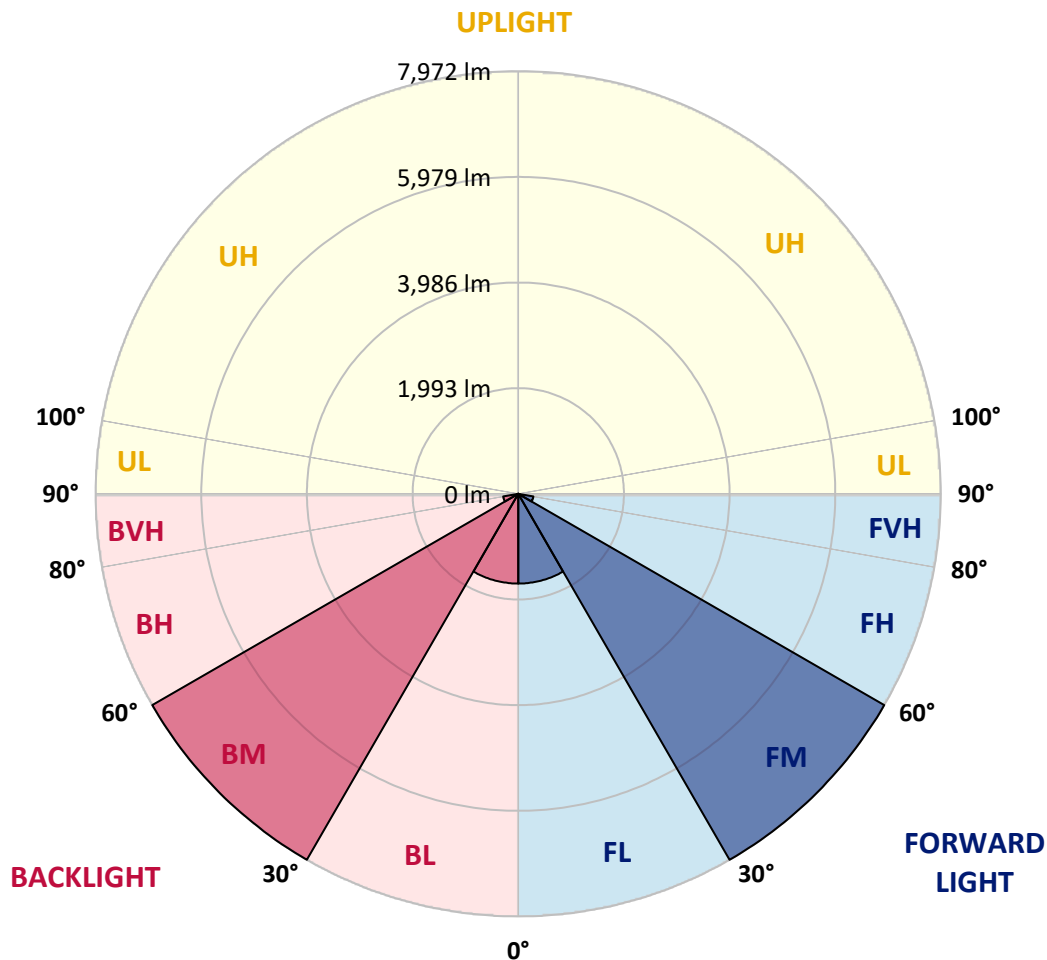
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1692.7	8.5			
FM (30°-60°)	7972.2	40.0			
FH (60°-80°)	289.4	1.5			G0/660
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	1692.7	8.5	B3/2500		
BM (30°-60°)	7972.2	40.0	B4/8500		
BH (60°-80°)	289.4	1.5	B1/500		G0/660
BVH (80°-90°)	9.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3267.6	3267.6	3267.6	3267.6	3267.6	3267.6	3267.6	3267.6	3267.6	3267.6	3267.6
2.5°	3283.4	3302.3	3289.7	3299.1	3299.1	3283.4	3292.8	3254.9	3280.2	3261.3	3264.4
5°	3333.9	3330.7	3330.7	3333.9	3321.2	3327.6	3314.9	3302.3	3292.8	3280.2	3318.1
7.5°	3397.0	3397.0	3374.9	3381.2	3374.9	3384.4	3359.1	3333.9	3324.4	3314.9	3308.6
10°	3457.0	3450.7	3441.2	3469.6	3447.5	3434.9	3422.3	3406.5	3371.8	3359.1	3346.5
12.5°	3545.4	3542.2	3529.6	3558.0	3545.4	3558.0	3510.7	3469.6	3463.3	3422.3	3444.4
15°	3649.6	3678.0	3655.9	3655.9	3649.6	3633.8	3614.8	3595.9	3539.1	3523.3	3526.5
17.5°	3785.3	3775.9	3779.0	3779.0	3810.6	3769.5	3731.7	3684.3	3655.9	3646.4	3614.8
20°	3914.8	3927.4	3924.2	3946.3	3965.3	3921.1	3880.0	3873.7	3794.8	3807.4	3763.2
22.5°	4142.1	4132.6	4148.4	4164.2	4151.6	4145.2	4107.4	4060.0	3990.5	3959.0	3952.7
25°	4382.0	4366.2	4337.8	4375.7	4394.6	4423.1	4350.4	4325.2	4217.9	4170.5	4173.7
27.5°	4587.2	4609.3	4640.9	4656.7	4704.0	4694.6	4644.1	4562.0	4479.9	4426.2	4391.5
30°	4868.2	4880.8	4934.5	4956.6	5038.7	5060.8	4981.9	4887.1	4741.9	4672.5	4631.4
32.5°	5127.1	5215.5	5212.3	5322.8	5455.4	5547.0	5404.9	5259.7	5114.5	5032.4	4959.8
35°	5547.0	5531.2	5622.7	5739.6	5954.2	6058.4	5903.7	5736.4	5515.4	5382.8	5326.0
37.5°	5938.5	5944.8	6067.9	6254.2	6500.4	6661.4	6525.7	6251.0	6023.7	5853.2	5774.3
40°	6506.7	6519.4	6645.6	6857.2	7135.0	7308.6	7150.8	6872.9	6569.9	6437.3	6437.3
42.5°	7172.9	7226.5	7308.6	7491.7	7741.1	7933.7	7791.7	7573.8	7267.6	7097.1	7122.4
45°	7858.0	7883.2	7936.9	8208.4	8325.2	8419.9	8287.3	8186.3	7981.1	7772.7	7738.0
47.5°	8498.8	8508.3	8666.2	8751.4	8843.0	8764.0	8849.3	8716.7	8486.2	8284.2	8243.1
50°	8783.0	8767.2	8991.3	9250.2	9319.7	9180.8	9108.2	9019.8	8669.3	8426.2	8318.9
52.5°	7955.8	8047.4	8464.1	9183.9	9726.9	9843.8	9420.7	9013.4	8359.9	7886.4	7813.8
54°	7008.7	7093.9	7438.1	8505.2	9635.4	10030.0	9348.1	8483.1	7561.2	6999.2	6926.6
55°	6071.1	5976.3	6601.4	7690.6	9206.0	9865.9	9060.8	7798.0	6743.5	6228.9	6127.9
57.5°	3286.5	3302.3	3829.5	4858.7	6468.8	7564.3	6680.4	5275.5	3984.2	3406.5	3356.0
60°	1041.8	1067.1	1297.6	1963.7	3090.8	3690.6	3163.4	2118.4	1464.9	1174.4	1127.1
62.5°	325.2	337.8	369.4	549.3	846.1	1209.2	947.1	568.3	423.0	388.3	394.6
65°	198.9	198.9	202.1	214.7	252.6	293.6	284.1	249.4	239.9	233.6	230.5
67.5°	129.4	126.3	132.6	142.1	148.4	151.5	161.0	170.5	167.3	161.0	161.0
70°	78.9	75.8	82.1	94.7	97.9	104.2	113.7	126.3	123.1	116.8	120.0
72.5°	44.2	44.2	47.4	56.8	66.3	72.6	82.1	91.6	94.7	91.6	91.6
75°	15.8	18.9	25.3	34.7	41.0	50.5	60.0	69.5	78.9	72.6	69.5
77.5°	6.3	6.3	12.6	22.1	31.6	41.0	56.8	66.3	72.6	66.3	60.0
80°	3.2	3.2	9.5	18.9	28.4	37.9	47.4	56.8	60.0	53.7	47.4
82.5°	3.2	3.2	9.5	18.9	28.4	34.7	50.5	56.8	63.1	56.8	47.4
85°	0.0	3.2	9.5	18.9	25.3	28.4	28.4	18.9	15.8	9.5	9.5
87.5°	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)