

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: P651008

Luminaire Tested: **GALN-SA7C-840-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651008  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-840-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42489 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

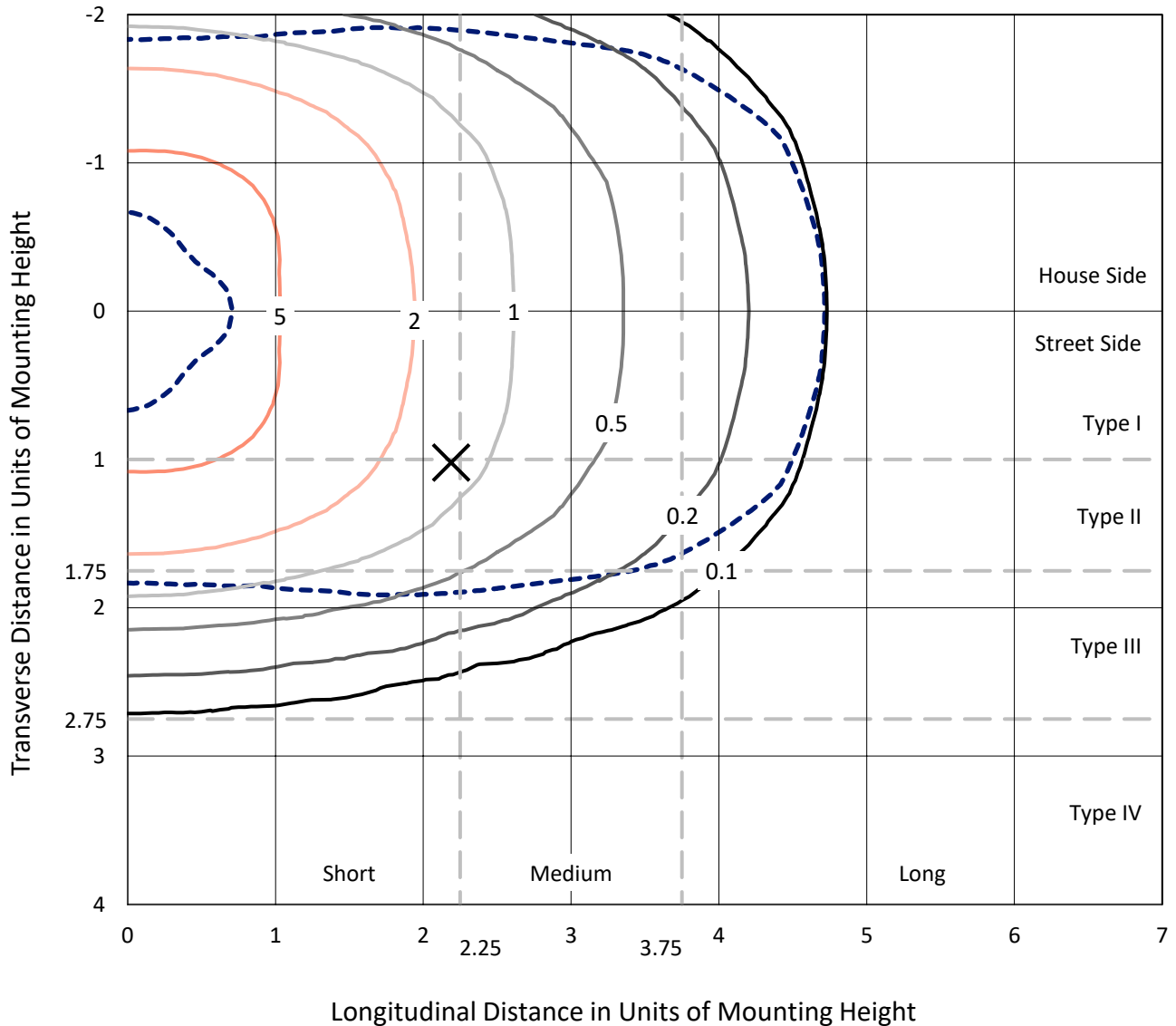
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

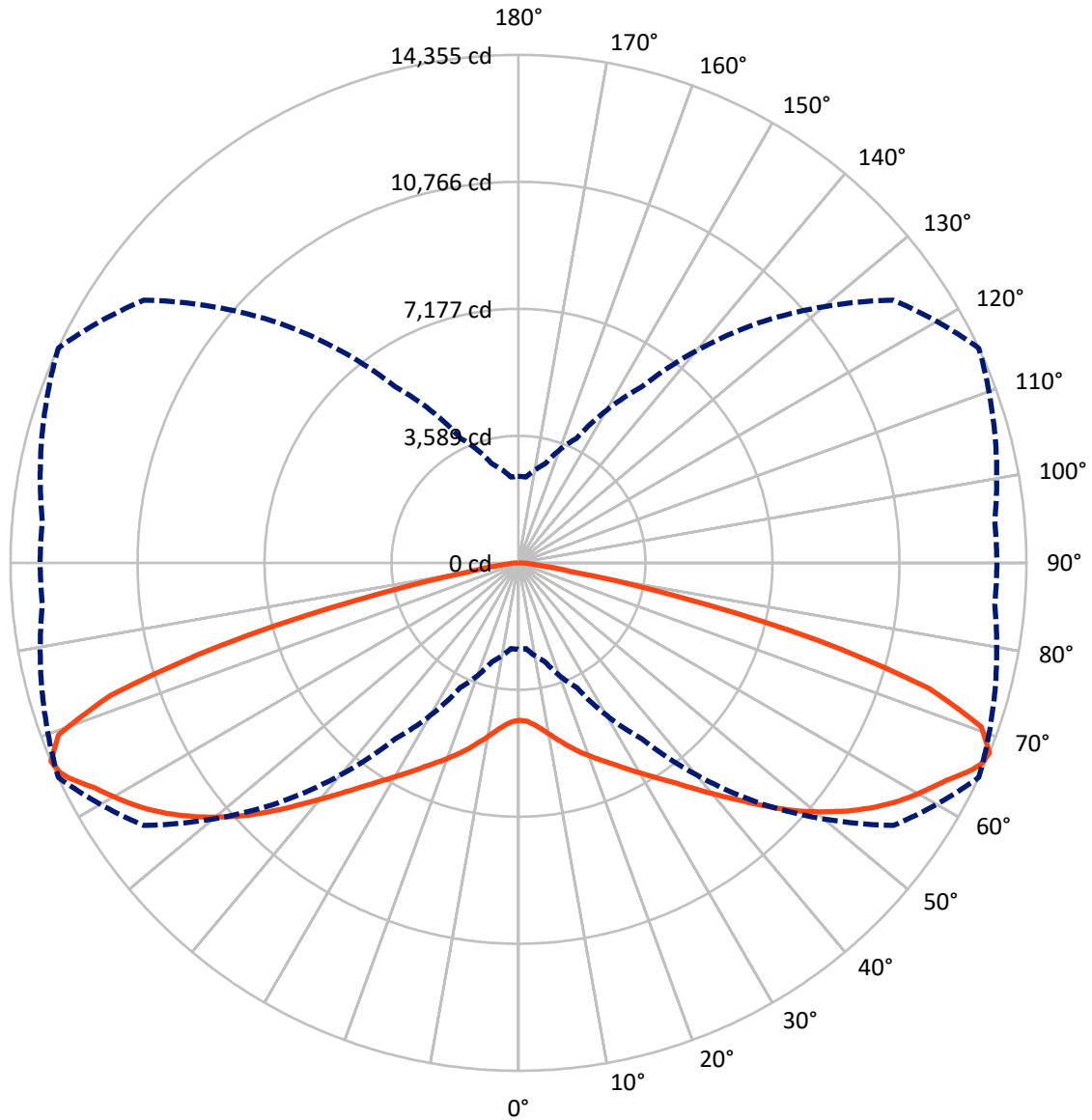
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21244.5	0.0	21244.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21244.5	0.0	21244.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42489.0	0.0	42489.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.9	1.0
10°-20°	1469.0	3.5
20°-30°	2873.5	6.8
30°-40°	4887.5	11.5
40°-50°	7735.5	18.2
50°-60°	10257.1	24.1
60°-70°	9675.6	22.8
70°-80°	4783.1	11.3
80°-90°	368.6	0.9
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°	42489.0	100.0
0°-180°	42489.0	100.0

**Coefficient of Utilization**

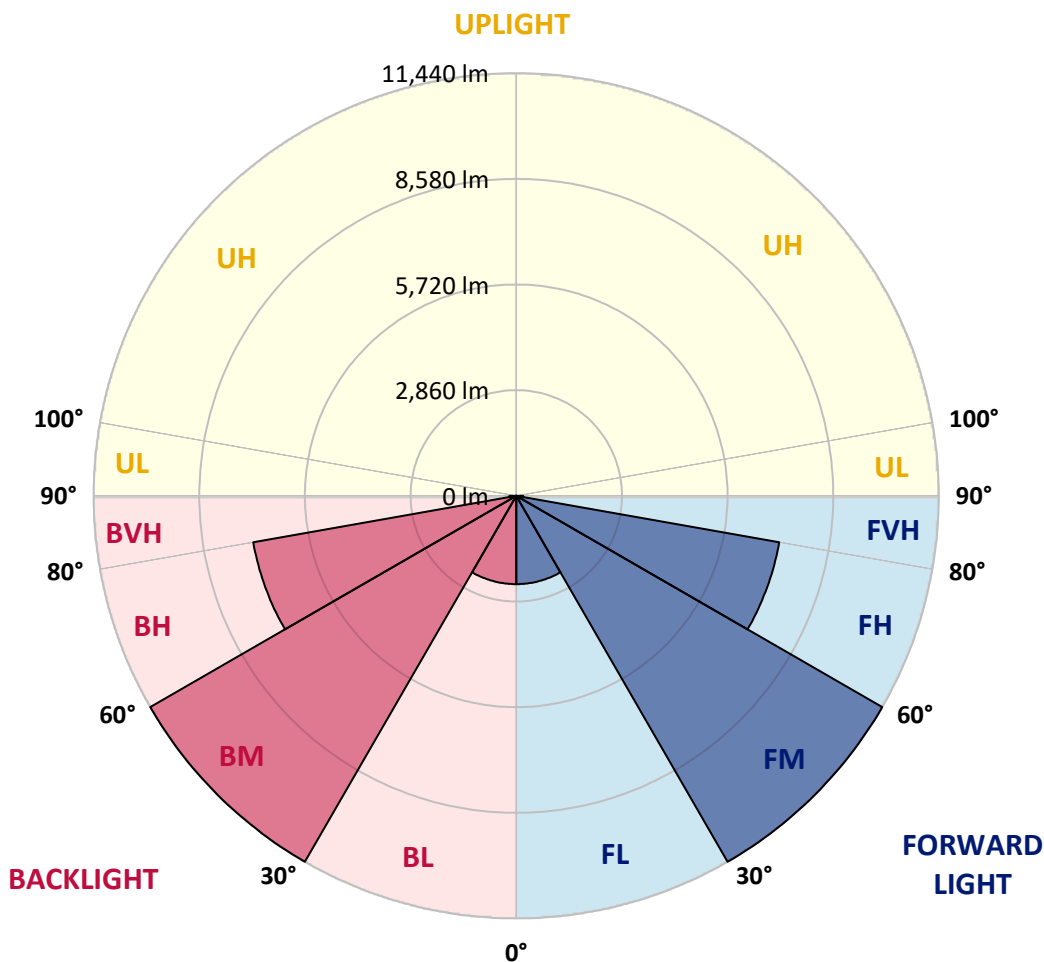


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2390.8	5.6			
FM	(30°-60°)	11440.1	26.9			
FH	(60°-80°)	7229.4	17.0			G3/7500
FVH	(80°-90°)	184.3	0.4			G2/225
BL	(0°-30°)	2390.8	5.6	B3/2500		
BM	(30°-60°)	11440.1	26.9	B5		
BH	(60°-80°)	7229.4	17.0	B5		G5
BVH	(80°-90°)	184.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3	4450.3
2.5°	4427.6	4432.2	4436.7	4443.5	4452.6	4466.3	4475.4	4482.2	4500.4	4502.7	4500.4
5°	4411.6	4416.2	4427.6	4448.0	4477.7	4518.6	4550.5	4589.2	4618.8	4639.3	4634.8
7.5°	4409.4	4418.4	4436.7	4479.9	4536.9	4607.4	4680.2	4746.3	4803.2	4848.7	4841.9
10°	4445.8	4457.2	4486.7	4550.5	4639.3	4741.7	4844.2	4942.1	5024.0	5083.2	5103.7
12.5°	4507.3	4516.3	4571.0	4666.6	4794.1	4921.5	5037.7	5158.3	5272.1	5372.3	5372.3
15°	4614.2	4630.2	4698.5	4837.3	4994.4	5142.4	5260.7	5388.2	5511.2	5624.9	5659.1
17.5°	4762.2	4785.0	4887.4	5065.0	5265.3	5401.9	5513.4	5618.1	5725.1	5834.4	5850.3
20°	4964.8	4987.6	5124.1	5338.2	5574.9	5738.8	5813.9	5839.0	5891.3	5996.0	6009.7
22.5°	5240.3	5263.1	5415.5	5656.8	5920.9	6098.4	6130.3	6071.2	6057.5	6139.5	6148.6
25°	5552.1	5572.6	5747.9	6007.4	6280.6	6474.1	6464.9	6319.3	6237.3	6287.4	6301.0
27.5°	5902.7	5932.2	6109.9	6378.5	6674.3	6845.2	6817.8	6606.1	6430.8	6421.7	6426.2
30°	6351.1	6383.0	6551.5	6808.7	7100.1	7257.2	7200.2	6915.7	6644.8	6553.7	6553.7
32.5°	6824.6	6904.3	7075.0	7343.6	7571.3	7685.1	7598.6	7257.2	6897.5	6770.0	6763.2
35°	7441.5	7484.8	7653.3	7915.0	8085.7	8174.5	8008.3	7641.8	7227.6	7077.3	7056.8
37.5°	8044.8	8081.2	8277.0	8527.4	8734.5	8730.0	8504.6	8099.4	7637.3	7468.8	7455.2
40°	8661.7	8700.4	8923.4	9153.4	9360.5	9342.3	9069.2	8616.1	8124.5	7935.5	7971.9
42.5°	9196.6	9239.9	9492.5	9820.4	10007.1	10002.4	9686.0	9176.2	8664.0	8495.5	8527.4
45°	9683.8	9722.5	10016.1	10391.7	10664.9	10699.0	10353.0	9813.5	9287.7	9071.4	9080.5
47.5°	10027.5	10100.3	10407.6	10837.9	11208.9	11329.6	10990.4	10462.3	9856.8	9631.4	9645.1
50°	10289.3	10334.8	10669.4	11158.9	11627.8	11878.2	11605.0	11063.3	10425.9	10186.9	10218.7
52.5°	10321.2	10375.8	10740.0	11304.6	11905.5	12285.7	12151.4	11650.5	11006.3	10760.5	10828.8
55°	10061.6	10093.5	10528.3	11213.5	12014.8	12588.4	12622.6	12196.9	11559.5	11372.8	11418.4
57.5°	9321.8	9403.8	9954.7	10787.8	11864.6	12750.1	12975.5	12693.1	12119.5	11935.1	12008.0
60°	8108.5	8190.5	8743.6	9799.8	11297.7	12675.0	13266.9	13132.6	12627.1	12479.2	12517.9
62.5°	6353.4	6346.6	7031.8	8327.1	10170.9	12306.2	13483.1	13555.9	13127.9	12941.3	13000.5
65°	4118.0	4138.5	4800.9	6196.3	8470.5	11368.3	13530.8	14095.4	13619.7	13337.4	13380.6
66°	3312.1	3373.6	3935.9	5222.0	7603.1	10753.7	13387.5	14254.8	13769.9	13428.4	13448.9
67.5°	2444.9	2433.4	2895.6	3888.1	6071.2	9585.9	12939.0	14354.9	13940.7	13510.4	13519.5
70°	1395.4	1393.1	1557.0	2135.2	3569.4	6749.5	10906.2	13874.6	14286.7	13806.4	13781.3
72.5°	1019.8	1013.0	1035.8	1179.2	1741.5	3407.7	7523.5	12126.4	14109.1	13758.5	13687.9
75°	855.9	851.3	846.8	865.1	976.6	1543.4	3992.8	8723.1	12242.4	12914.0	12841.1
77.5°	698.9	698.9	701.1	696.6	701.1	812.7	1654.9	4675.7	7455.2	8322.5	8525.1
80°	546.3	544.0	582.7	566.8	530.4	521.3	733.0	1504.7	2474.5	2460.8	2030.5
82.5°	402.9	375.6	443.9	432.5	391.6	332.4	428.0	641.9	826.4	537.2	398.4
85°	255.0	252.7	314.1	286.9	239.0	157.1	204.9	275.4	341.4	207.1	168.5
87.5°	45.5	43.2	100.2	72.8	72.8	45.5	56.9	75.1	111.5	77.4	56.9
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)