

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: P651998

Luminaire Tested: **GALN-SA7A-840-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651998  
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-SA7A-840-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27637.8 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

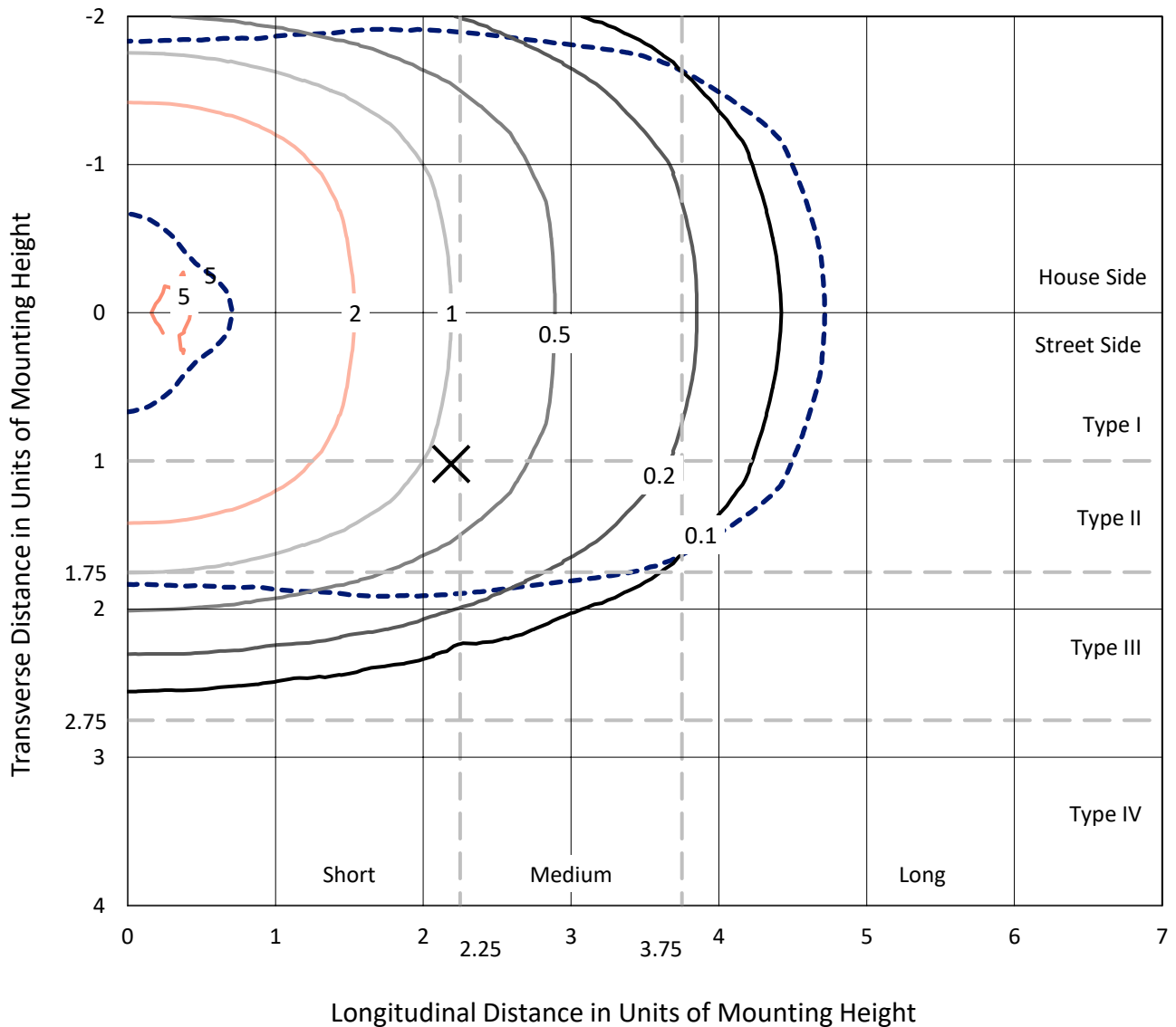
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

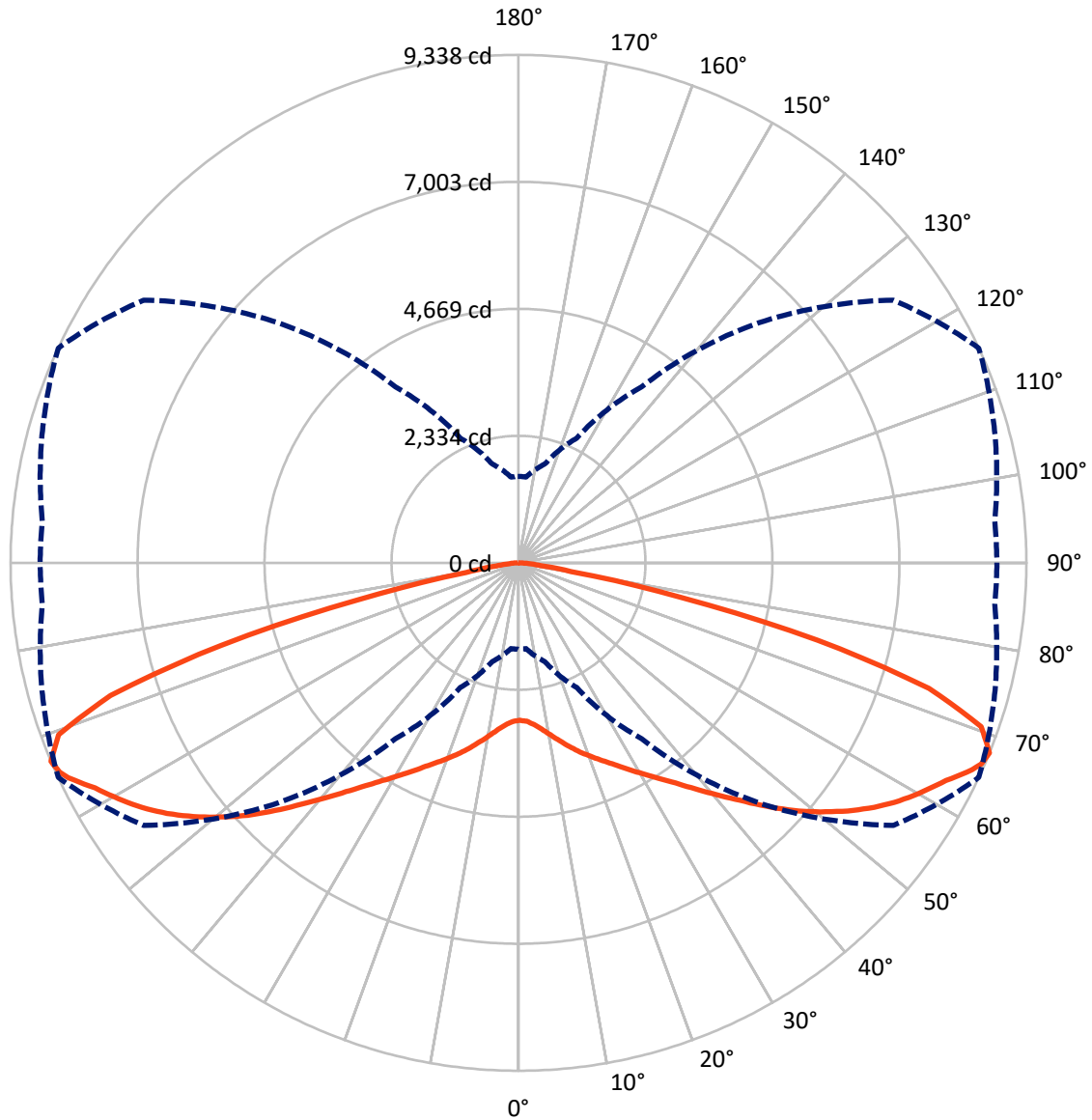
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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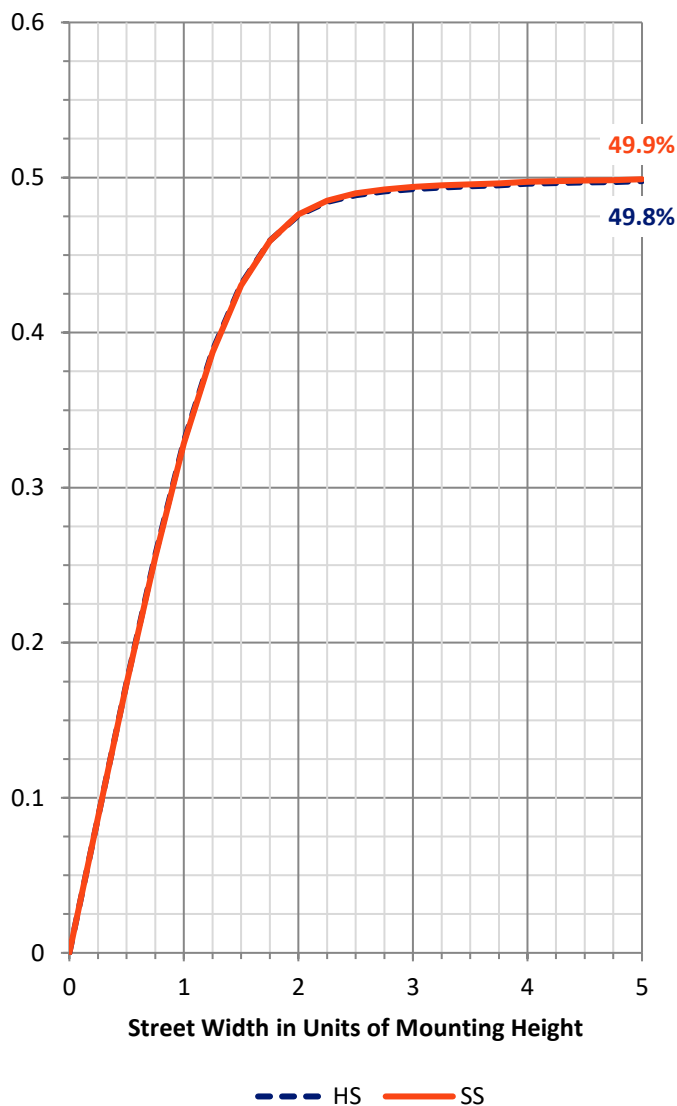
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13818.9	0.0	13818.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13818.9	0.0	13818.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27637.8	0.0	27637.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.5	1.0
10°-20°	955.6	3.5
20°-30°	1869.2	6.8
30°-40°	3179.2	11.5
40°-50°	5031.7	18.2
50°-60°	6671.9	24.1
60°-70°	6293.7	22.8
70°-80°	3111.3	11.3
80°-90°	239.8	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°	27637.8	100.0
0°-180°	27637.8	100.0

**Coefficient of Utilization**

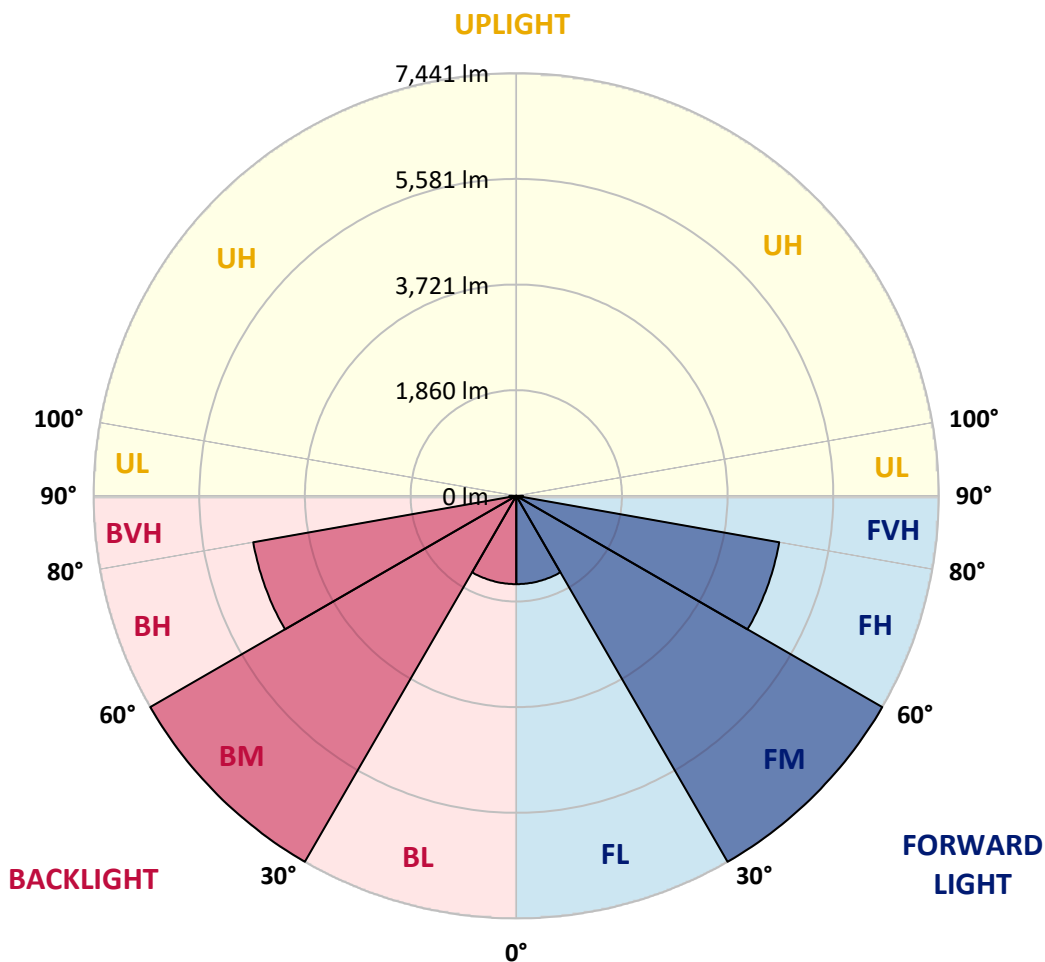


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1555.1	5.6			
FM	(30°-60°)	7441.4	26.9			
FH	(60°-80°)	4702.5	17.0			G2/5000
FVH	(80°-90°)	119.9	0.4			G2/225
BL	(0°-30°)	1555.1	5.6	B3/2500		
BM	(30°-60°)	7441.4	26.9	B4/8500		
BH	(60°-80°)	4702.5	17.0	B4/5000		G4/5000
BVH	(80°-90°)	119.9	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8	2894.8
2.5°	2880.0	2882.9	2885.9	2890.3	2896.3	2905.2	2911.1	2915.6	2927.4	2928.9	2927.4
5°	2869.7	2872.6	2880.0	2893.3	2912.6	2939.2	2960.0	2985.1	3004.4	3017.7	3014.7
7.5°	2868.1	2874.1	2885.9	2914.1	2951.1	2997.0	3044.3	3087.3	3124.3	3153.9	3149.5
10°	2891.9	2899.3	2918.5	2960.0	3017.7	3084.4	3151.0	3214.6	3268.0	3306.5	3319.8
12.5°	2931.8	2937.8	2973.3	3035.5	3118.4	3201.4	3276.9	3355.3	3429.3	3494.5	3494.5
15°	3001.4	3011.8	3056.2	3146.5	3248.7	3345.0	3421.9	3504.9	3584.8	3658.9	3681.1
17.5°	3097.7	3112.5	3179.1	3294.6	3424.9	3513.8	3586.3	3654.4	3724.0	3795.1	3805.4
20°	3229.4	3244.2	3333.1	3472.3	3626.3	3732.9	3781.8	3798.0	3832.1	3900.2	3909.1
22.5°	3408.7	3423.5	3522.6	3679.6	3851.4	3966.8	3987.6	3949.1	3940.2	3993.5	3999.5
25°	3611.5	3624.8	3738.8	3907.6	4085.3	4211.1	4205.3	4110.5	4057.2	4089.8	4098.6
27.5°	3839.5	3858.8	3974.2	4149.0	4341.5	4452.5	4434.8	4297.1	4183.0	4177.1	4180.1
30°	4131.2	4151.9	4261.5	4428.9	4618.4	4720.5	4683.5	4498.4	4322.2	4263.0	4263.0
32.5°	4439.2	4491.0	4602.1	4776.8	4924.9	4998.9	4942.6	4720.5	4486.6	4403.6	4399.2
35°	4840.5	4868.6	4978.2	5148.4	5259.5	5317.3	5209.2	4970.8	4701.3	4603.5	4590.3
37.5°	5232.9	5256.6	5383.9	5546.8	5681.5	5678.6	5532.0	5268.4	4967.8	4858.3	4849.4
40°	5634.1	5659.3	5804.4	5954.0	6088.8	6076.9	5899.2	5604.5	5284.7	5161.8	5185.5
42.5°	5982.1	6010.3	6174.6	6387.8	6509.3	6506.3	6300.4	5968.8	5635.6	5526.0	5546.8
45°	6299.0	6324.2	6515.1	6759.5	6937.2	6959.4	6734.3	6383.4	6041.3	5900.7	5906.6
47.5°	6522.6	6570.0	6769.9	7049.7	7291.0	7369.6	7148.9	6805.4	6411.5	6264.9	6273.9
50°	6692.8	6722.4	6940.2	7258.5	7563.5	7726.4	7548.7	7196.4	6781.7	6626.2	6646.9
52.5°	6713.6	6749.1	6986.0	7353.3	7744.2	7991.4	7904.1	7578.3	7159.3	6999.4	7043.8
55°	6544.8	6565.5	6848.3	7294.1	7815.2	8188.4	8210.6	7933.7	7519.1	7397.7	7427.3
57.5°	6063.5	6116.8	6475.2	7017.1	7717.5	8293.5	8440.1	8256.5	7883.4	7763.4	7810.8
60°	5274.3	5327.7	5687.4	6374.5	7348.8	8244.7	8629.7	8542.3	8213.5	8117.3	8142.5
62.5°	4132.7	4128.2	4573.9	5416.5	6615.9	8004.8	8770.3	8817.7	8539.3	8417.9	8456.4
65°	2678.7	2692.0	3122.9	4030.5	5509.8	7394.7	8801.4	9168.7	8859.2	8675.6	8703.7
66°	2154.5	2194.4	2560.2	3396.8	4945.6	6994.9	8708.1	9272.3	8956.9	8734.8	8748.1
67.5°	1590.3	1582.9	1883.5	2529.1	3949.1	6235.3	8416.4	9337.5	9067.9	8788.1	8794.0
70°	907.7	906.2	1012.8	1388.9	2321.7	4390.4	7094.2	9025.0	9293.0	8980.6	8964.3
72.5°	663.4	658.9	673.7	767.0	1132.7	2216.6	4893.8	7887.8	9177.5	8949.5	8903.6
75°	556.7	553.8	550.9	562.7	635.2	1003.9	2597.2	5674.1	7963.3	8400.2	8352.7
77.5°	454.6	454.6	456.1	453.1	456.1	528.7	1076.5	3041.4	4849.4	5413.5	5545.3
80°	355.4	353.9	379.0	368.7	345.0	339.1	476.8	978.8	1609.5	1600.7	1320.8
82.5°	262.1	244.3	288.7	281.3	254.7	216.2	278.4	417.6	537.5	349.4	259.1
85°	165.8	164.3	204.4	186.5	155.5	102.2	133.3	179.1	222.1	134.7	109.6
87.5°	29.6	28.2	65.2	47.3	47.3	29.6	37.0	48.9	72.6	50.4	37.0
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)