

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: P455821

Luminaire Tested: **GALN-SA7A-740-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455821  
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-740-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 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: 32863 lumens  
Efficiency: N/A  
Efficacy: 152.9 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

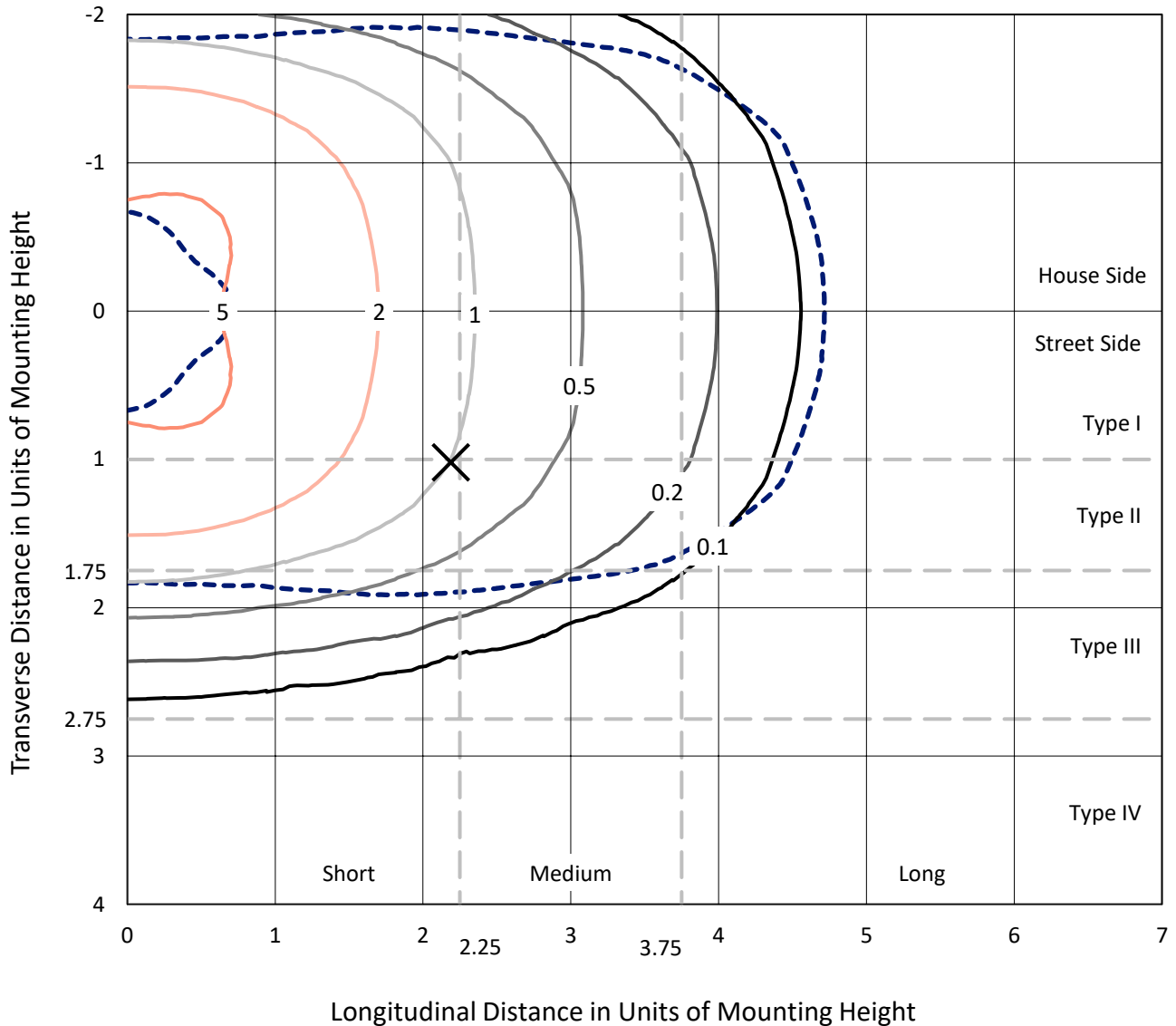
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

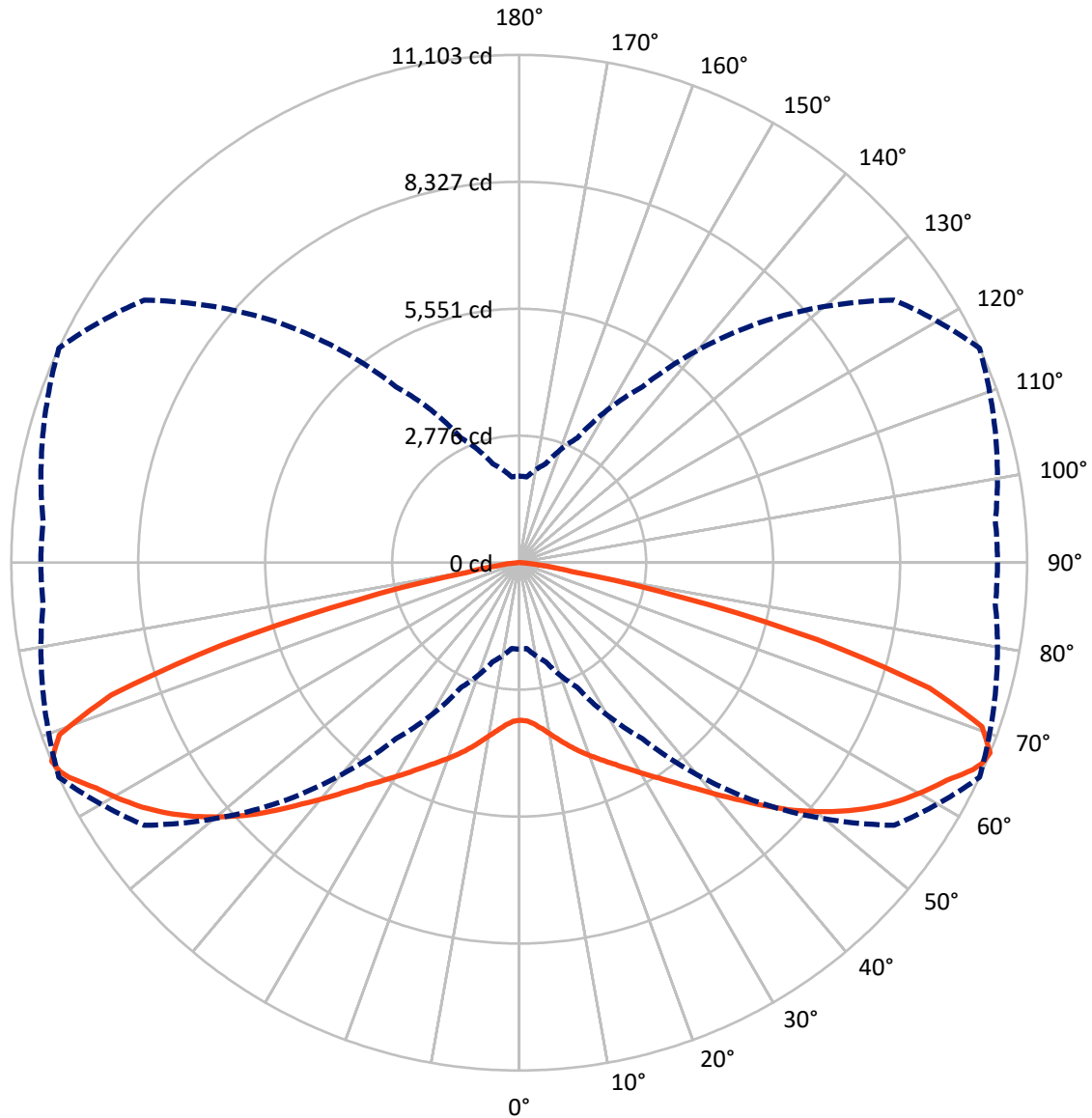
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	16431.5	0.0	16431.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16431.5	0.0	16431.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32863.0	0.0	32863.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.5	1.0
10°-20°	1136.2	3.5
20°-30°	2222.5	6.8
30°-40°	3780.2	11.5
40°-50°	5983.0	18.2
50°-60°	7933.3	24.1
60°-70°	7483.6	22.8
70°-80°	3699.5	11.3
80°-90°	285.1	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°	32863.0	100.0
0°-180°	32863.0	100.0

**Coefficient of Utilization**



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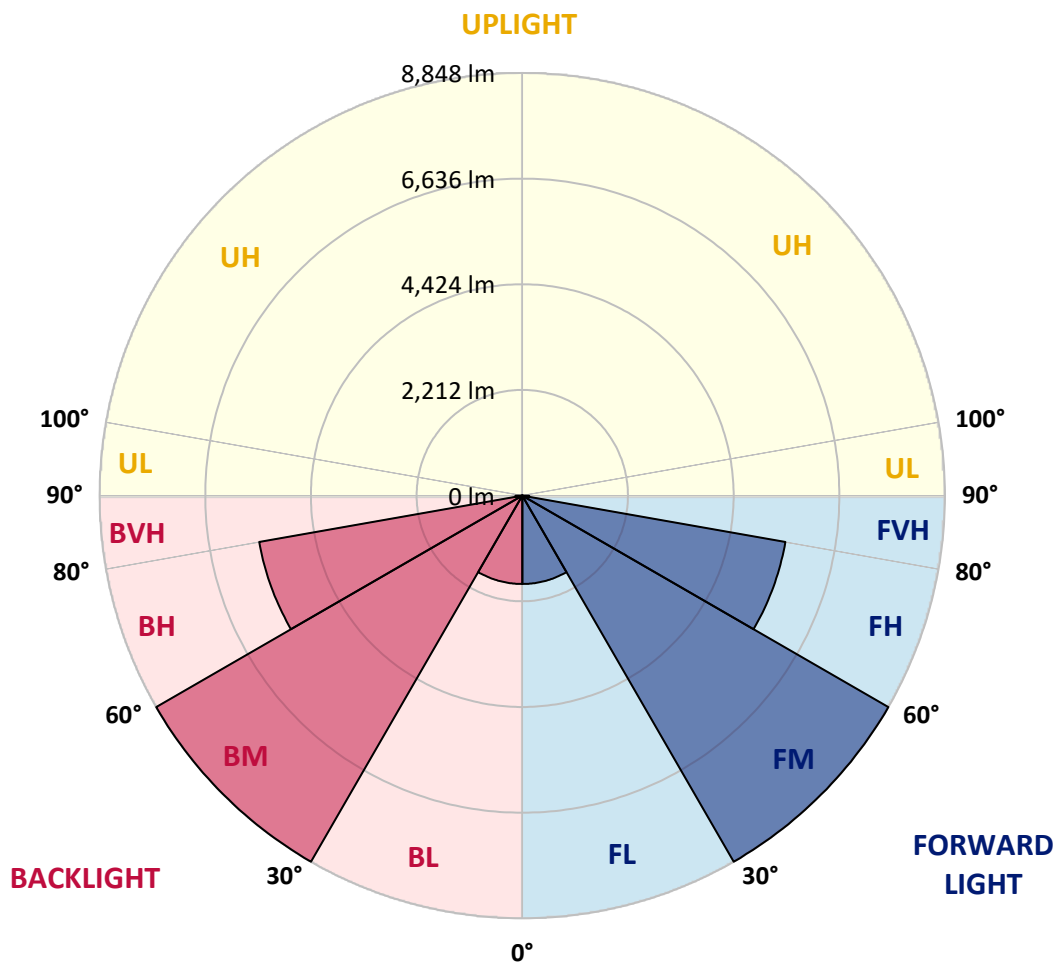
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1849.1	5.6			
FM	(30°-60°)	8848.3	26.9			
FH	(60°-80°)	5591.5	17.0			G3/7500
FVH	(80°-90°)	142.6	0.4			G2/225
BL	(0°-30°)	1849.1	5.6	B3/2500		
BM	(30°-60°)	8848.3	26.9	B5		
BH	(60°-80°)	5591.5	17.0	B5		G5
BVH	(80°-90°)	142.6	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°	3442.1	3442.1	3442.1	3442.1	3442.1	3442.1	3442.1	3442.1	3442.1	3442.1	3442.1
2.5°	3424.5	3428.0	3431.5	3436.8	3443.9	3454.4	3461.5	3466.8	3480.8	3482.6	3480.8
5°	3412.2	3415.7	3424.5	3440.3	3463.2	3494.9	3519.6	3549.5	3572.4	3588.2	3584.7
7.5°	3410.4	3417.5	3431.5	3465.0	3509.0	3563.6	3619.9	3671.0	3715.0	3750.2	3744.9
10°	3438.6	3447.4	3470.3	3519.6	3588.2	3667.5	3746.7	3822.4	3885.8	3931.6	3947.4
12.5°	3486.1	3493.2	3535.4	3609.4	3708.0	3806.6	3896.4	3989.7	4077.7	4155.2	4155.2
15°	3568.9	3581.2	3634.0	3741.4	3862.9	3977.4	4068.9	4167.5	4262.6	4350.6	4377.0
17.5°	3683.3	3700.9	3780.2	3917.5	4072.4	4178.1	4264.3	4345.3	4428.1	4512.6	4524.9
20°	3840.0	3857.6	3963.3	4128.8	4311.9	4438.6	4496.8	4516.1	4556.6	4637.6	4648.2
22.5°	4053.1	4070.7	4188.6	4375.3	4579.5	4716.8	4741.5	4695.7	4685.1	4748.5	4755.6
25°	4294.3	4310.1	4445.7	4646.4	4857.7	5007.3	5000.3	4887.6	4824.2	4863.0	4873.5
27.5°	4565.4	4588.3	4725.6	4933.4	5162.3	5294.3	5273.2	5109.5	4973.9	4966.8	4970.4
30°	4912.3	4936.9	5067.2	5266.2	5491.5	5613.0	5569.0	5348.9	5139.4	5069.0	5069.0
32.5°	5278.5	5340.1	5472.2	5679.9	5856.0	5944.0	5877.1	5613.0	5334.8	5236.2	5230.9
35°	5755.6	5789.1	5919.4	6121.8	6253.9	6322.6	6194.0	5910.6	5590.1	5473.9	5458.1
37.5°	6222.2	6250.4	6401.8	6595.5	6755.7	6752.2	6577.9	6264.5	5907.0	5776.8	5766.2
40°	6699.3	6729.3	6901.8	7079.7	7239.9	7225.8	7014.5	6664.1	6283.8	6137.7	6165.9
42.5°	7113.1	7146.6	7342.0	7595.5	7739.9	7736.4	7491.6	7097.3	6701.1	6570.8	6595.5
45°	7489.9	7519.8	7746.9	8037.5	8248.7	8275.1	8007.5	7590.2	7183.5	7016.3	7023.3
47.5°	7755.8	7812.1	8049.8	8382.5	8669.5	8762.9	8500.5	8092.0	7623.7	7449.4	7460.0
50°	7958.2	7993.4	8252.3	8630.8	8993.5	9187.2	8975.9	8556.9	8063.9	7879.0	7903.6
52.5°	7982.9	8025.1	8306.8	8743.5	9208.3	9502.3	9398.5	9011.1	8512.8	8322.7	8375.5
55°	7782.2	7806.8	8143.1	8673.1	9292.8	9736.5	9762.9	9433.7	8940.7	8796.3	8831.5
57.5°	7209.9	7273.3	7699.4	8343.8	9176.6	9861.5	10035.8	9817.5	9373.8	9231.2	9287.5
60°	6271.5	6334.9	6762.7	7579.7	8738.2	9803.4	10261.2	10157.3	9766.4	9652.0	9681.9
62.5°	4914.0	4908.7	5438.7	6440.5	7866.7	9518.2	10428.4	10484.8	10153.8	10009.4	10055.2
65°	3185.1	3200.9	3713.3	4792.5	6551.5	8792.8	10465.4	10902.1	10534.1	10315.8	10349.2
66°	2561.8	2609.3	3044.2	4039.0	5880.6	8317.4	10354.5	11025.3	10650.3	10386.2	10402.0
67.5°	1891.0	1882.2	2239.6	3007.2	4695.7	7414.2	10007.6	11102.8	10782.3	10449.6	10456.6
70°	1079.3	1077.5	1204.3	1651.5	2760.7	5220.4	8435.4	10731.3	11050.0	10678.5	10659.1
72.5°	788.8	783.5	801.1	912.0	1346.9	2635.7	5819.0	9379.1	10912.6	10641.5	10586.9
75°	662.0	658.5	655.0	669.1	755.3	1193.7	3088.2	6746.9	9468.9	9988.3	9931.9
77.5°	540.5	540.5	542.3	538.8	542.3	628.6	1280.0	3616.4	5766.2	6437.0	6593.7
80°	422.6	420.8	450.7	438.4	410.2	403.2	566.9	1163.8	1913.8	1903.3	1570.5
82.5°	311.6	290.5	343.3	334.5	302.8	257.1	331.0	496.5	639.1	415.5	308.1
85°	197.2	195.4	243.0	221.8	184.9	121.5	158.5	213.0	264.1	160.2	130.3
87.5°	35.2	33.5	77.5	56.3	56.3	35.2	44.0	58.1	86.3	59.9	44.0
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)