

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: P533553

Luminaire Tested: **GALN-SA9A-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533553  
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-SA9A-730-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 25937 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

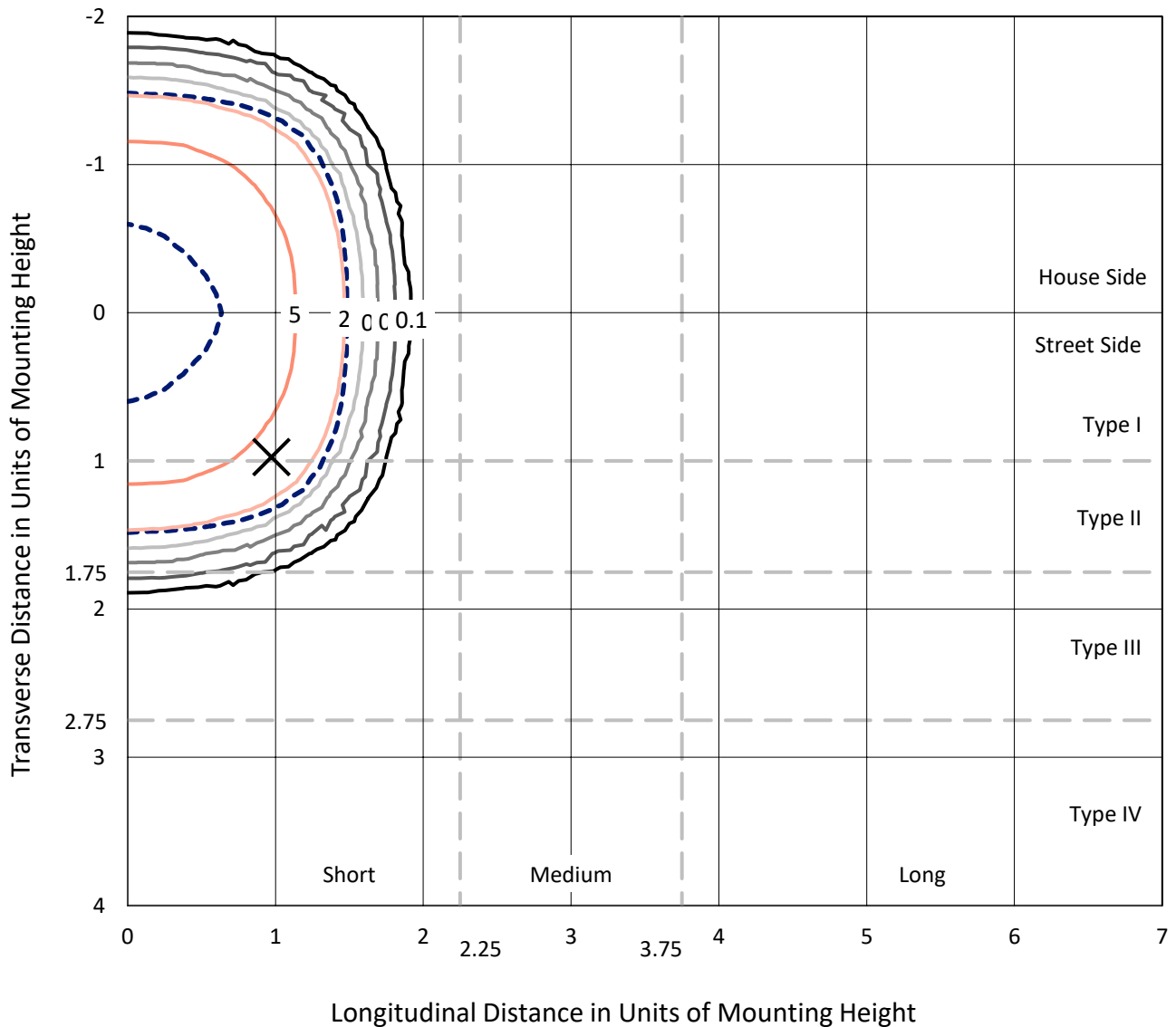
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

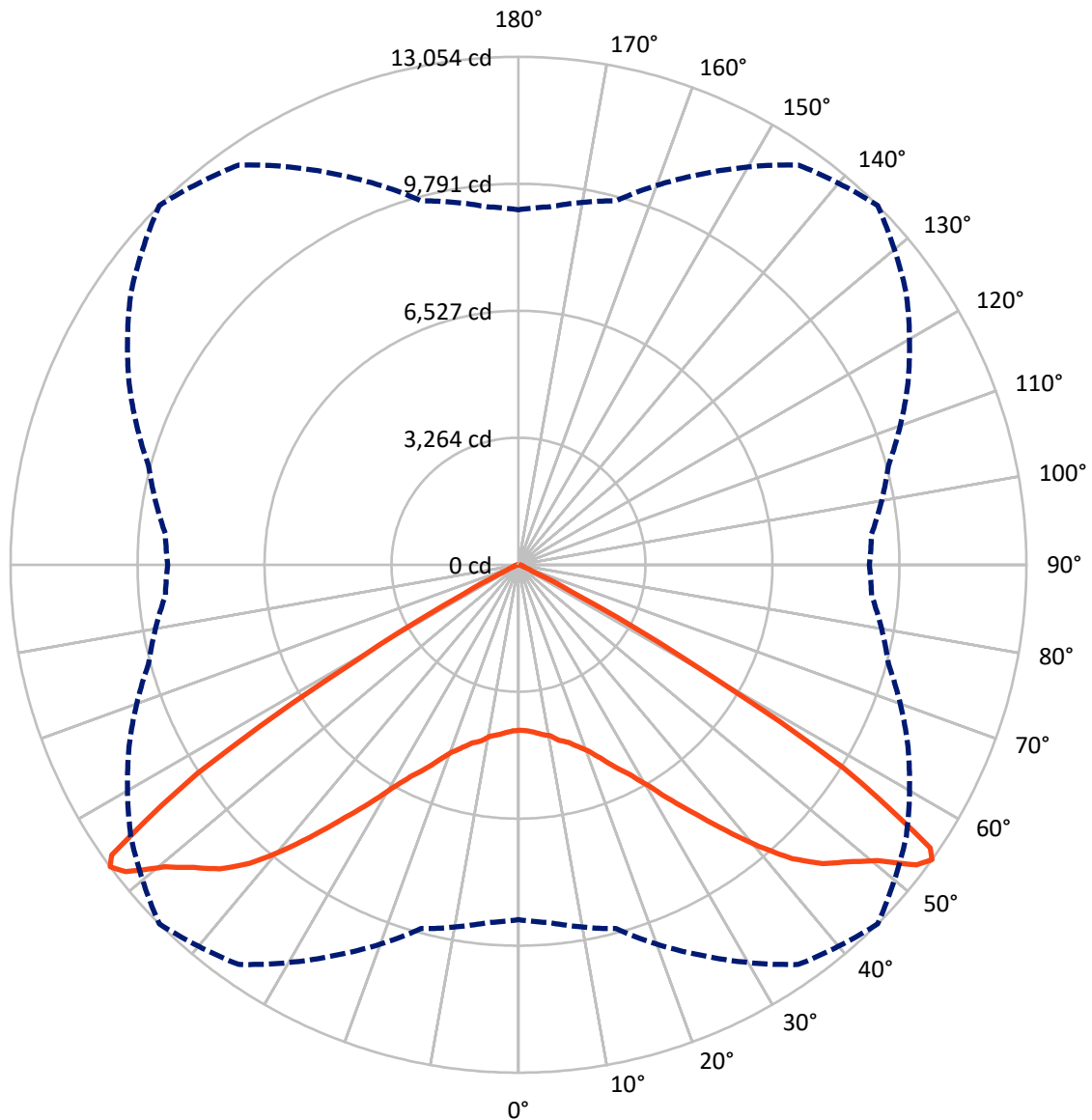
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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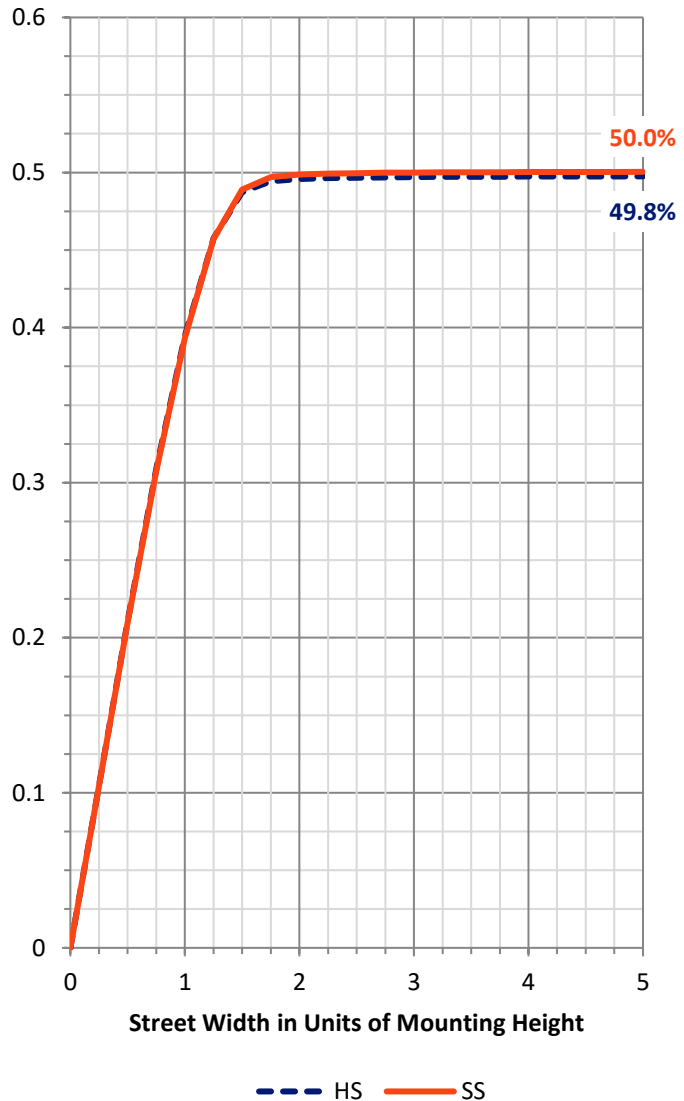
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12968.5	0.0	12968.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12968.5	0.0	12968.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25937.0	0.0	25937.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	416.3	1.6
10°-20°	1348.0	5.2
20°-30°	2642.0	10.2
30°-40°	4750.8	18.3
40°-50°	8132.5	31.4
50°-60°	7869.0	30.3
60°-70°	673.6	2.6
70°-80°	79.8	0.3
80°-90°	25.0	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°	25937.0	100.0
0°-180°	25937.0	100.0

**Coefficient of Utilization**



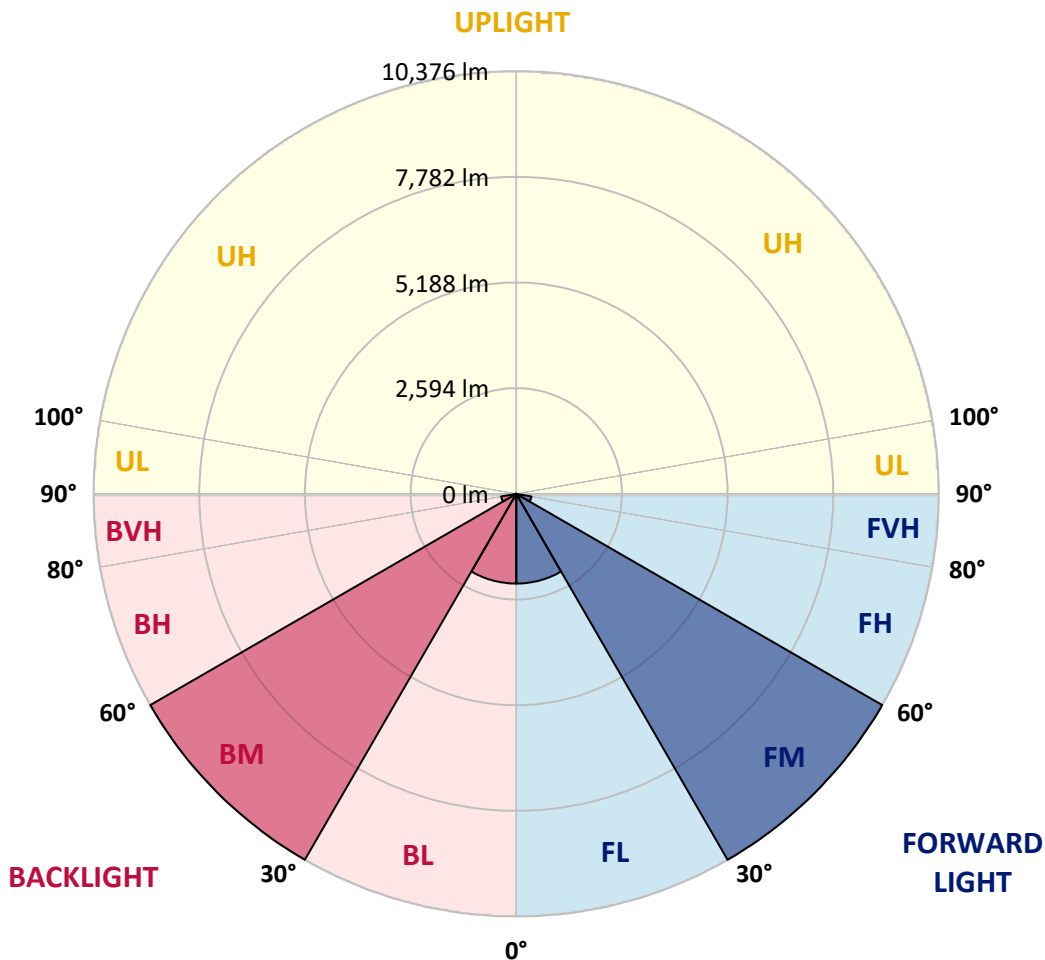
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2203.1	8.5			
FM (30°-60°)	10376.1	40.0			
FH (60°-80°)	376.7	1.5			G0/660
FVH (80°-90°)	12.5	0.0			G1/100
BL (0°-30°)	2203.1	8.5	B3/2500		
BM (30°-60°)	10376.1	40.0	B5		
BH (60°-80°)	376.7	1.5	B1/500		G0/660
BVH (80°-90°)	12.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4252.9	4252.9	4252.9	4252.9	4252.9	4252.9	4252.9	4252.9	4252.9	4252.9	4252.9
2.5°	4273.4	4298.1	4281.6	4294.0	4294.0	4273.4	4285.7	4236.4	4269.3	4244.6	4248.8
5°	4339.1	4335.0	4335.0	4339.1	4322.7	4330.9	4314.5	4298.1	4285.7	4269.3	4318.6
7.5°	4421.3	4421.3	4392.6	4400.8	4392.6	4404.9	4372.0	4339.1	4326.8	4314.5	4306.3
10°	4499.4	4491.2	4478.9	4515.8	4487.1	4470.6	4454.2	4433.7	4388.5	4372.0	4355.6
12.5°	4614.5	4610.3	4593.9	4630.9	4614.5	4630.9	4569.3	4515.8	4507.6	4454.2	4483.0
15°	4750.1	4787.0	4758.3	4758.3	4750.1	4729.5	4704.9	4680.2	4606.2	4585.7	4589.8
17.5°	4926.7	4914.4	4918.5	4918.5	4959.6	4906.2	4856.9	4795.3	4758.3	4745.9	4704.9
20°	5095.2	5111.6	5107.5	5136.3	5161.0	5103.4	5050.0	5041.8	4939.1	4955.5	4898.0
22.5°	5391.1	5378.7	5399.3	5419.8	5403.4	5395.2	5345.9	5284.2	5193.8	5152.7	5144.5
25°	5703.4	5682.8	5645.8	5695.1	5719.8	5756.8	5662.3	5629.4	5489.7	5428.0	5432.2
27.5°	5970.4	5999.2	6040.3	6060.8	6122.5	6110.1	6044.4	5937.6	5830.7	5760.9	5715.7
30°	6336.1	6352.6	6422.4	6451.2	6558.0	6586.8	6484.1	6360.8	6171.8	6081.4	6028.0
32.5°	6673.1	6788.1	6784.0	6927.8	7100.4	7219.6	7034.7	6845.7	6656.7	6549.8	6455.3
35°	7219.6	7199.0	7318.2	7470.2	7749.7	7885.3	7683.9	7466.1	7178.5	7005.9	6932.0
37.5°	7729.1	7737.3	7897.6	8140.0	8460.5	8670.1	8493.4	8135.9	7840.1	7618.2	7515.4
40°	8468.7	8485.2	8649.5	8924.8	9286.4	9512.4	9307.0	8945.4	8550.9	8378.3	8378.3
42.5°	9335.7	9405.6	9512.4	9750.8	10075.4	10326.0	10141.1	9857.6	9459.0	9237.1	9270.0
45°	10227.4	10260.3	10330.1	10683.5	10835.5	10958.8	10786.2	10654.7	10387.7	10116.5	10071.3
47.5°	11061.5	11073.9	11279.3	11390.3	11509.4	11406.7	11517.6	11345.1	11045.1	10782.1	10728.7
50°	11431.4	11410.8	11702.6	12039.5	12129.9	11949.1	11854.6	11739.5	11283.4	10967.0	10827.3
52.5°	10354.8	10474.0	11016.3	11953.2	12660.0	12812.0	12261.4	11731.3	10880.7	10264.4	10169.9
54°	9122.1	9233.0	9680.9	11069.8	12540.8	13054.4	12166.9	11041.0	9841.2	9109.7	9015.2
55°	7901.7	7778.4	8592.0	10009.6	11982.0	12840.8	11793.0	10149.3	8776.9	8107.1	7975.7
57.5°	4277.5	4298.1	4984.3	6323.8	8419.4	9845.3	8694.7	6866.2	5185.6	4433.7	4367.9
60°	1356.0	1388.9	1688.8	2555.8	4022.8	4803.5	4117.3	2757.2	1906.6	1528.6	1466.9
62.5°	423.2	439.7	480.8	715.0	1101.2	1573.8	1232.7	739.6	550.6	505.4	513.6
65°	258.9	258.9	263.0	279.4	328.7	382.1	369.8	324.6	312.3	304.1	300.0
67.5°	168.5	164.4	172.6	184.9	193.1	197.2	209.6	221.9	217.8	209.6	209.6
70°	102.7	98.6	106.8	123.3	127.4	135.6	147.9	164.4	160.3	152.0	156.1
72.5°	57.5	57.5	61.6	74.0	86.3	94.5	106.8	119.2	123.3	119.2	119.2
75°	20.5	24.7	32.9	45.2	53.4	65.7	78.1	90.4	102.7	94.5	90.4
77.5°	8.2	8.2	16.4	28.8	41.1	53.4	74.0	86.3	94.5	86.3	78.1
80°	4.1	4.1	12.3	24.7	37.0	49.3	61.6	74.0	78.1	69.9	61.6
82.5°	4.1	4.1	12.3	24.7	37.0	45.2	65.7	74.0	82.2	74.0	61.6
85°	0.0	4.1	12.3	24.7	32.9	37.0	37.0	24.7	20.5	12.3	12.3
87.5°	0.0	0.0	4.1	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)