

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: P459442

Luminaire Tested: **GALN-SA9A-735-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9A-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40305 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

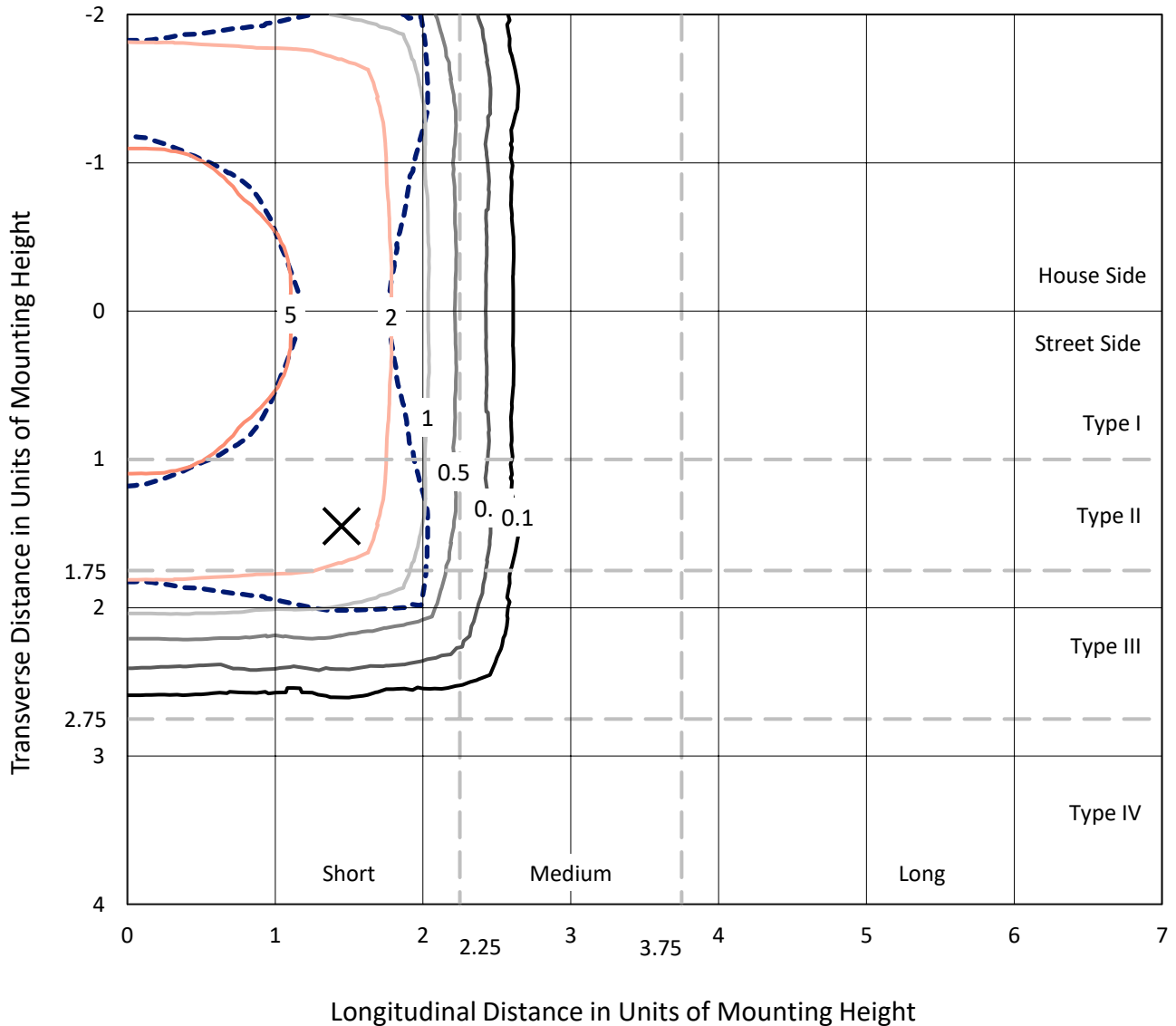
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

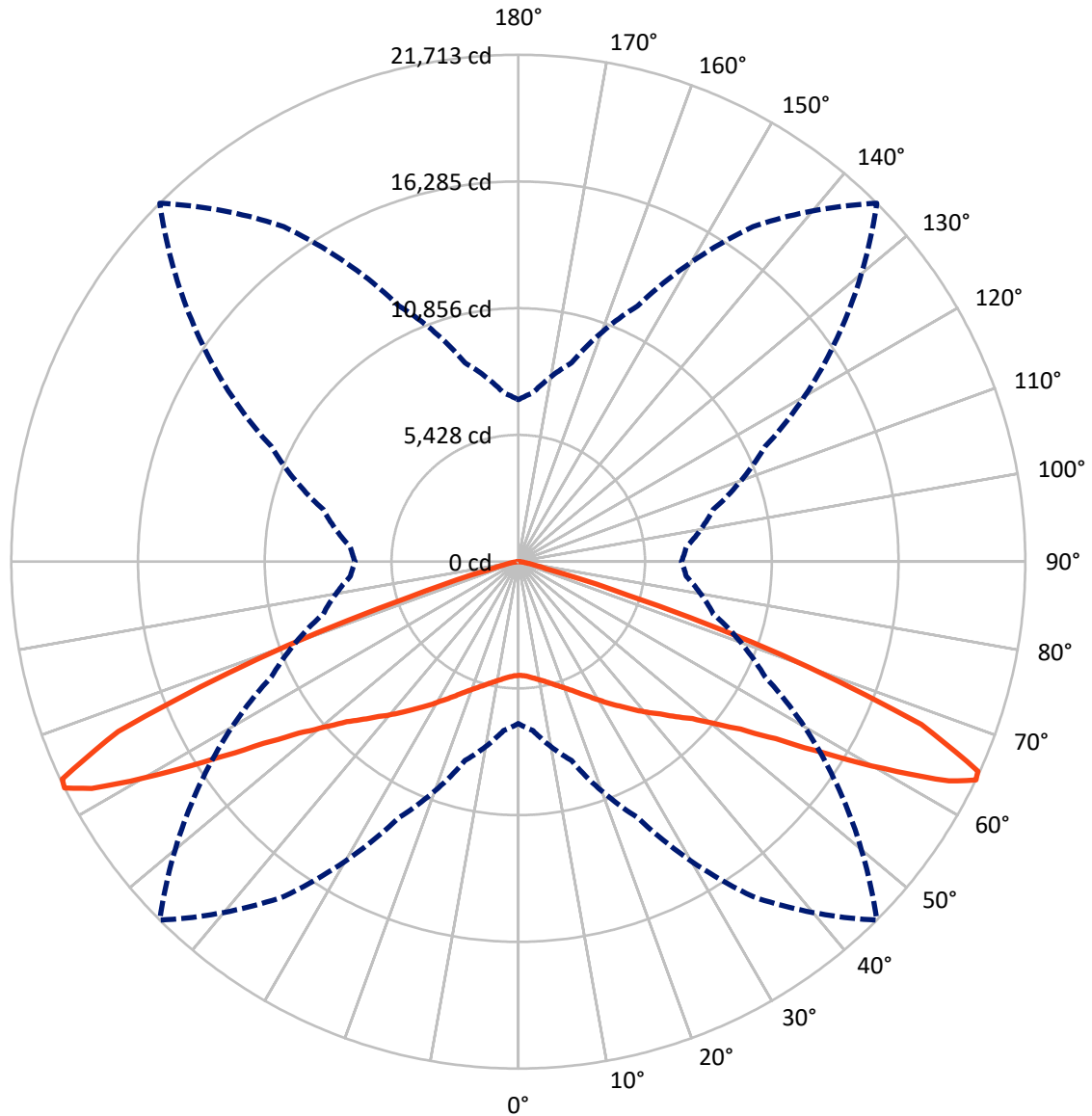
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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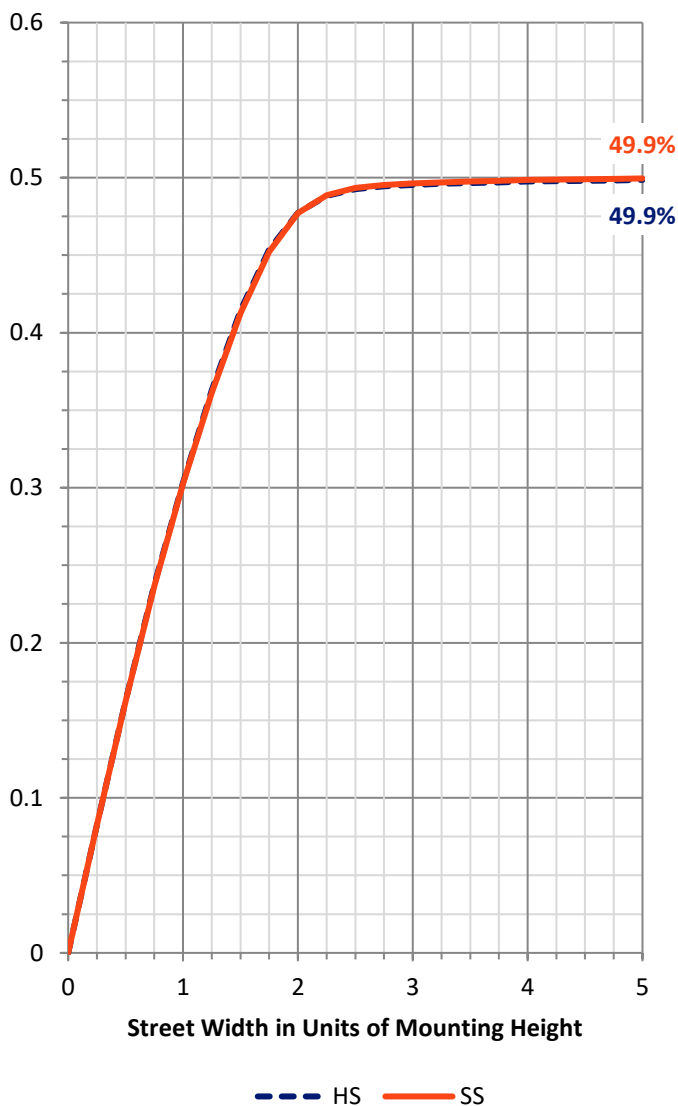
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20152.5	0.0	20152.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20152.5	0.0	20152.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40305.0	0.0	40305.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.6	1.2
10°-20°	1543.8	3.8
20°-30°	2917.3	7.2
30°-40°	4831.4	12.0
40°-50°	7542.6	18.7
50°-60°	11660.6	28.9
60°-70°	10054.8	24.9
70°-80°	1139.5	2.8
80°-90°	136.5	0.3
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°	40305.0	100.0
0°-180°	40305.0	100.0

**Coefficient of Utilization**



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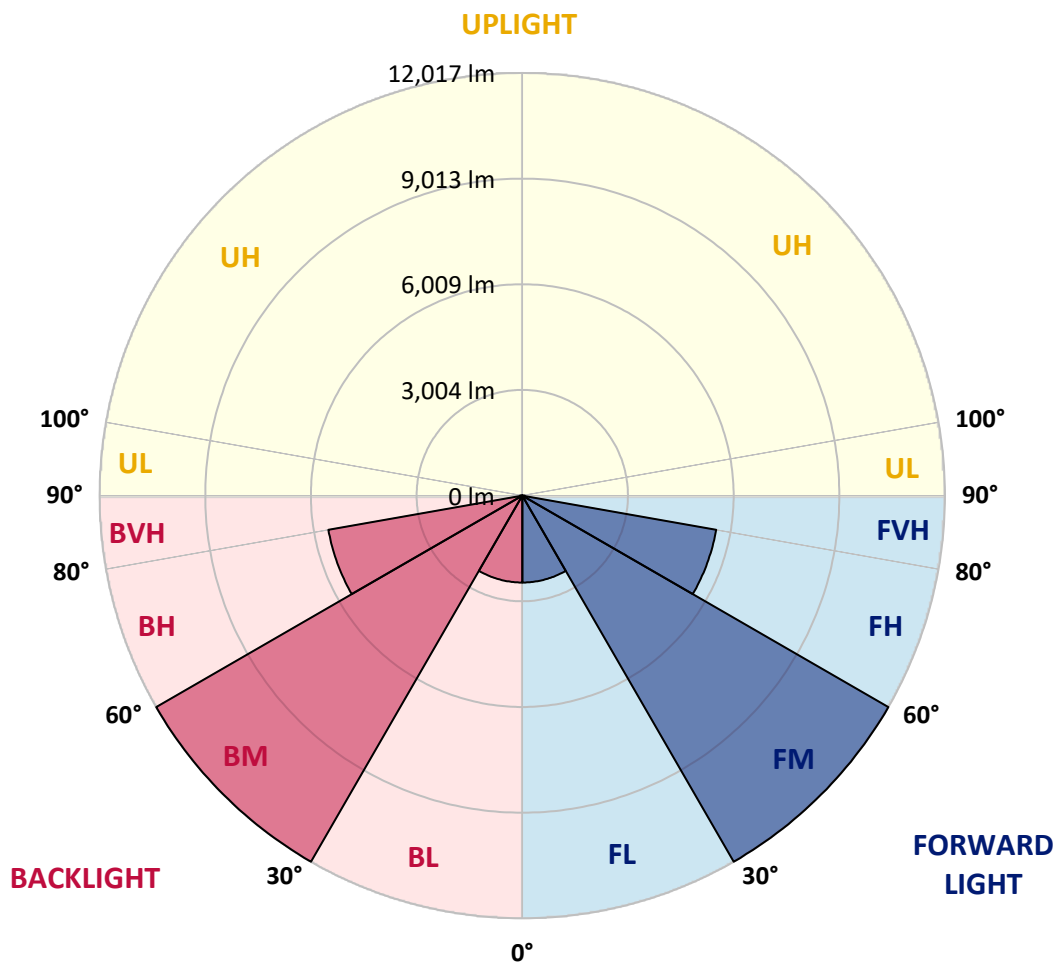
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2469.8	6.1			
FM	(30°-60°)	12017.3	29.8			
FH	(60°-80°)	5597.1	13.9			G3/7500
FVH	(80°-90°)	68.3	0.2			G1/100
BL	(0°-30°)	2469.8	6.1	B3/2500		
BM	(30°-60°)	12017.3	29.8	B5		
BH	(60°-80°)	5597.1	13.9	B5		G3/7500
BVH	(80°-90°)	68.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5	4871.5
2.5°	4890.7	4901.4	4892.9	4890.7	4888.6	4888.6	4888.6	4890.7	4899.3	4905.7	4901.4
5°	4952.7	4961.2	4956.9	4954.8	4952.7	4954.8	4950.5	4948.4	4954.8	4954.8	4952.7
7.5°	5029.5	5040.2	5035.9	5040.2	5042.3	5044.5	5033.8	5025.2	5023.1	5029.5	5025.2
10°	5134.1	5142.7	5144.8	5146.9	5151.2	5149.1	5136.2	5121.3	5119.2	5117.0	5114.9
12.5°	5251.5	5257.9	5260.1	5268.6	5275.0	5277.1	5262.2	5249.4	5228.0	5232.3	5223.8
15°	5383.9	5396.7	5394.6	5407.4	5424.4	5428.7	5413.8	5392.4	5373.2	5362.5	5356.1
17.5°	5546.1	5554.7	5550.4	5563.2	5584.5	5595.2	5582.4	5554.7	5535.4	5512.0	5499.2
20°	5738.3	5753.2	5757.5	5757.5	5776.7	5787.4	5768.1	5759.6	5729.7	5712.6	5702.0
22.5°	5956.0	5962.4	5975.2	5988.0	6007.2	6003.0	5996.6	5983.8	5956.0	5941.1	5924.0
25°	6201.5	6207.9	6239.9	6267.7	6274.1	6269.8	6261.3	6254.9	6229.2	6195.1	6182.3
27.5°	6487.6	6500.4	6543.1	6568.7	6568.7	6570.8	6553.7	6575.1	6519.6	6479.0	6474.7
30°	6846.2	6854.7	6891.0	6916.6	6903.8	6893.2	6888.9	6910.2	6850.5	6777.9	6760.8
32.5°	7200.6	7230.5	7262.5	7318.0	7273.1	7253.9	7249.7	7264.6	7196.3	7115.2	7091.7
35°	7580.6	7601.9	7661.7	7708.6	7668.1	7623.3	7642.5	7689.4	7608.3	7499.4	7495.2
37.5°	8001.1	8020.3	8097.2	8146.3	8116.4	8039.5	8071.6	8127.1	8045.9	7911.4	7883.7
40°	8438.7	8479.3	8575.4	8626.6	8577.5	8475.0	8534.8	8594.6	8522.0	8366.1	8304.2
42.5°	8929.7	8993.8	9132.5	9158.1	9064.2	8925.5	9030.1	9126.1	9074.9	8895.6	8872.1
45°	9504.0	9542.4	9713.2	9768.7	9638.5	9465.6	9595.8	9770.8	9732.4	9525.3	9480.5
47.5°	10146.5	10182.8	10360.0	10443.3	10278.9	10046.2	10281.0	10509.5	10486.0	10264.0	10242.6
50°	10906.5	10915.1	11160.6	11254.5	11090.1	10889.4	11098.7	11382.6	11288.6	11004.7	11000.5
52.5°	11739.1	11749.8	12059.3	12240.8	12149.0	11922.7	12170.3	12343.2	12104.1	11732.7	11704.9
55°	12460.6	12514.0	12936.7	13419.1	13545.1	13380.7	13455.4	13374.3	12785.1	12264.2	12183.1
57.5°	12755.2	12859.8	13502.4	14403.3	15223.0	15466.4	14890.0	14117.2	13056.2	12319.7	12240.8
60°	12035.8	12149.0	13145.9	14855.8	16947.9	18004.6	16384.3	14243.2	12439.3	11403.9	11280.1
62.5°	9638.5	9670.5	11137.1	13790.6	17953.4	20690.2	17014.1	13169.4	10643.9	9237.1	9188.0
64°	6935.9	7264.6	8818.7	12091.3	17513.6	21712.7	16651.2	11664.4	8645.8	7221.9	6991.4
65°	5187.5	5277.1	7108.8	10325.9	16738.7	21635.9	15946.7	10225.5	7160.0	5526.9	5270.7
67.5°	1959.7	1970.4	2623.6	5146.9	11916.3	18615.2	12170.3	5563.2	3016.4	2181.7	2102.7
70°	813.3	828.3	962.8	1731.3	5121.3	11952.6	5868.5	2006.7	1103.7	894.5	881.7
72.5°	595.6	604.1	644.7	768.5	1575.5	4907.8	1929.8	851.8	646.8	578.5	572.1
75°	467.5	471.8	501.7	565.7	734.4	1359.8	802.7	584.9	493.1	444.0	439.8
77.5°	356.5	367.2	388.5	431.2	493.1	644.7	531.6	437.6	380.0	339.4	333.0
80°	245.5	258.3	298.9	315.9	330.9	418.4	362.9	330.9	296.7	247.6	232.7
82.5°	151.6	160.1	200.7	215.6	209.2	234.8	232.7	237.0	211.3	153.7	143.0
85°	79.0	83.3	108.9	113.1	104.6	96.1	119.5	138.8	130.2	87.5	85.4
87.5°	17.1	19.2	23.5	21.3	23.5	23.5	29.9	44.8	47.0	29.9	27.8
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)