

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: P457702

Luminaire Tested: **GALN-SA9A-750-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457702  
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-750-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 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: 43266 lumens  
Efficiency: N/A  
Efficacy: 157.9 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

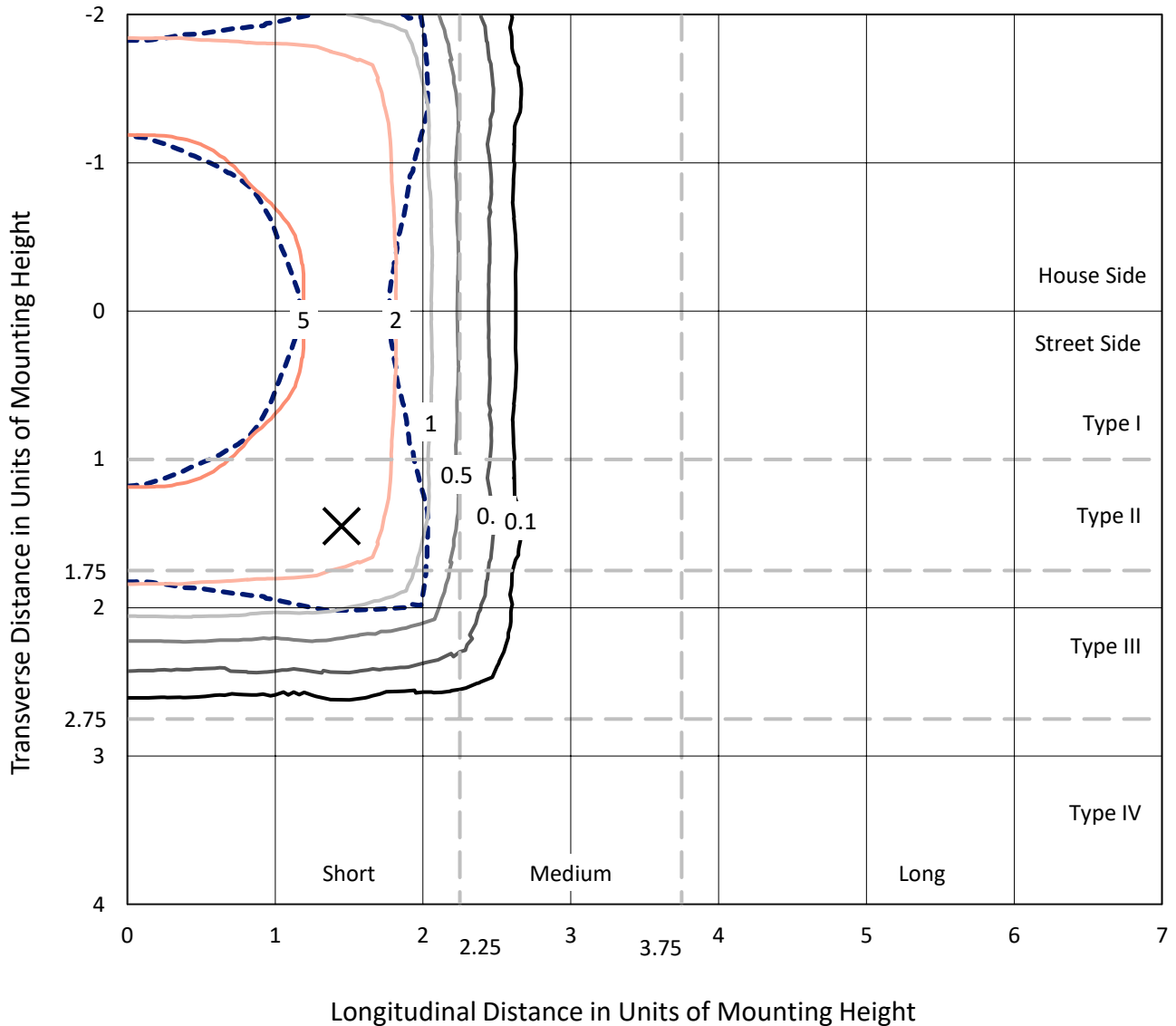
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

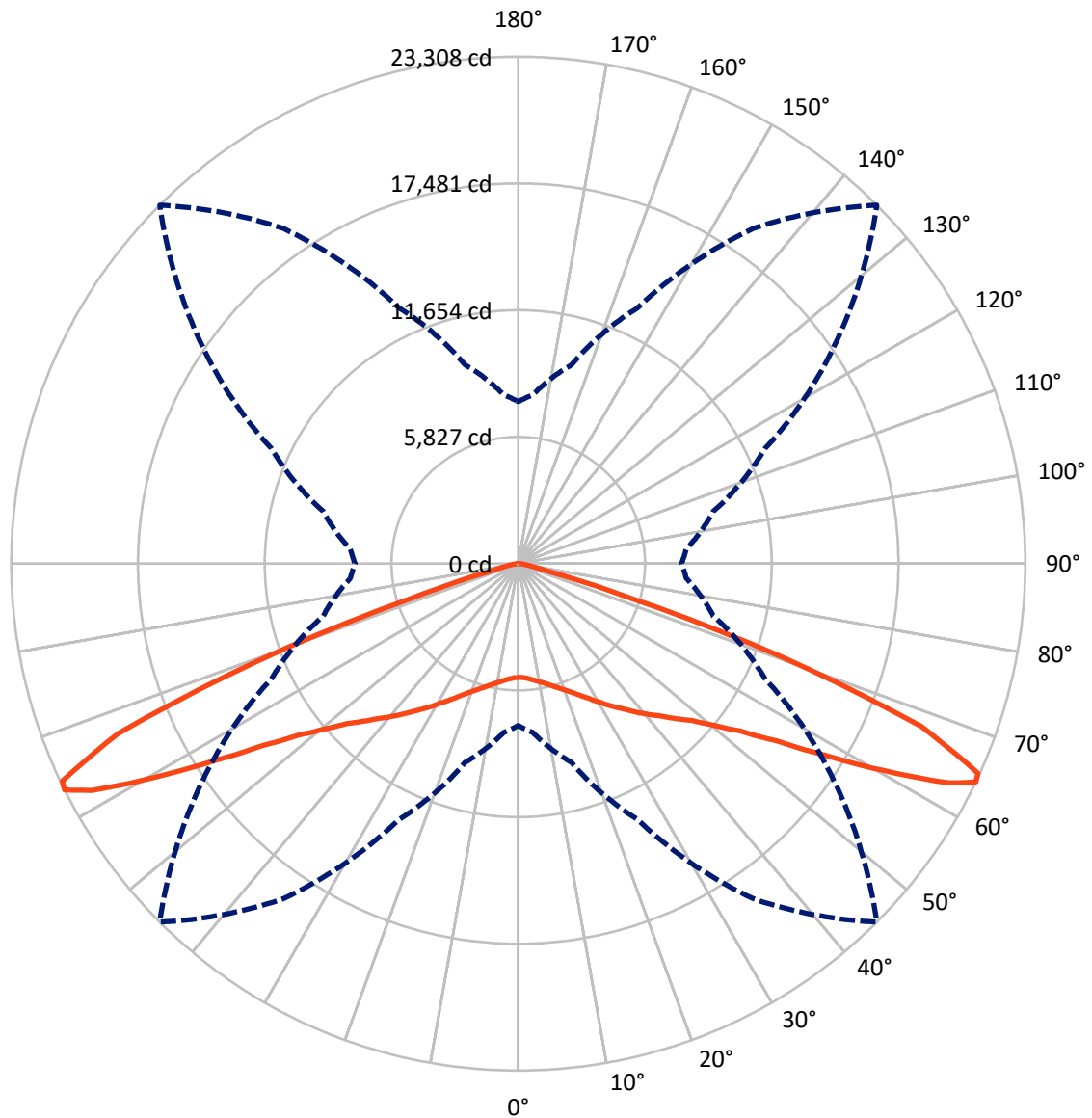
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	21633.0	0.0	21633.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21633.0	0.0	21633.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43266.0	0.0	43266.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.8	1.2
10°-20°	1657.2	3.8
20°-30°	3131.6	7.2
30°-40°	5186.3	12.0
40°-50°	8096.7	18.7
50°-60°	12517.3	28.9
60°-70°	10793.5	24.9
70°-80°	1223.2	2.8
80°-90°	146.6	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°	43266.0	100.0
0°-180°	43266.0	100.0

**Coefficient of Utilization**



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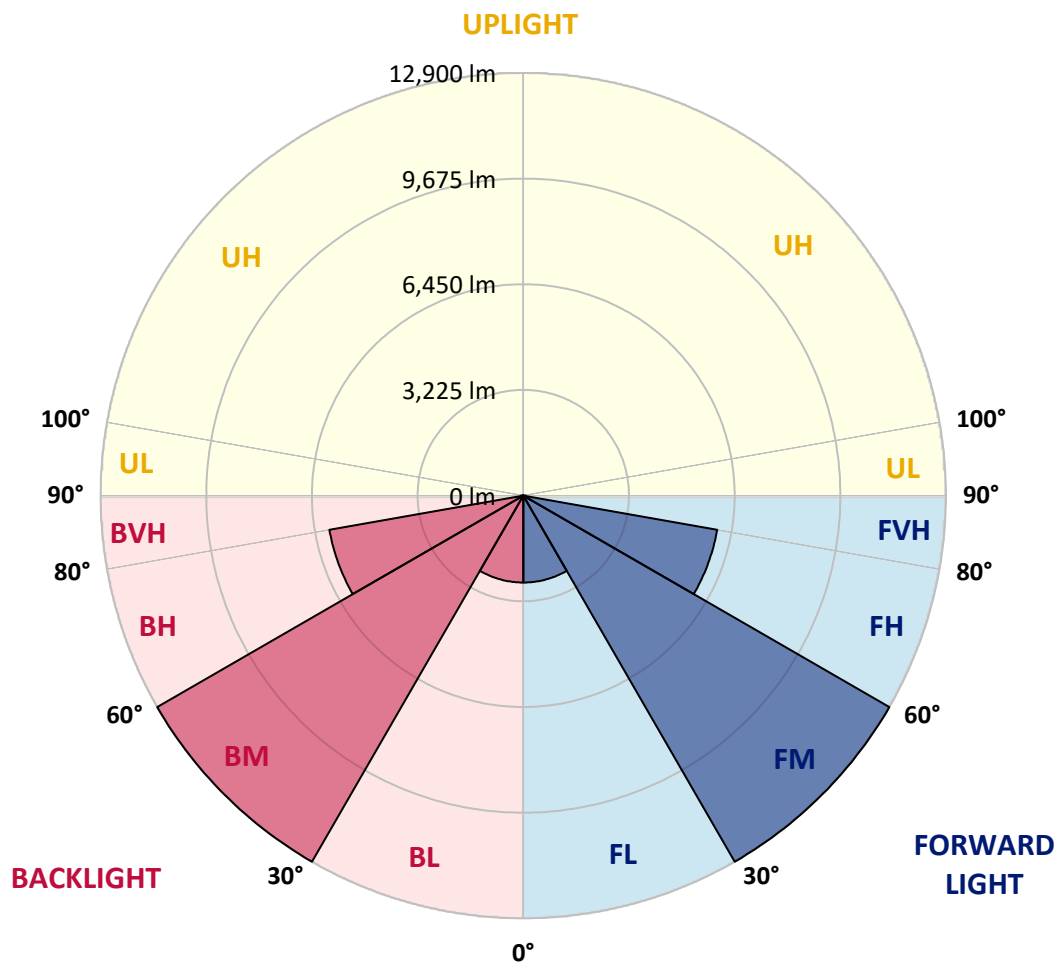
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2651.3	6.1			
FM (30°-60°)	12900.1	29.8			
FH (60°-80°)	6008.3	13.9			G3/7500
FVH (80°-90°)	73.3	0.2			G1/100
BL (0°-30°)	2651.3	6.1	B4/5000		
BM (30°-60°)	12900.1	29.8	B5		
BH (60°-80°)	6008.3	13.9	B5		G3/7500
BVH (80°-90°)	73.3	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°	5229.4	5229.4	5229.4	5229.4	5229.4	5229.4	5229.4	5229.4	5229.4	5229.4	5229.4
2.5°	5250.0	5261.5	5252.3	5250.0	5247.8	5247.8	5247.8	5250.0	5259.2	5266.1	5261.5
5°	5316.5	5325.7	5321.1	5318.8	5316.5	5318.8	5314.2	5311.9	5318.8	5318.8	5316.5
7.5°	5399.0	5410.5	5405.9	5410.5	5412.8	5415.0	5403.6	5394.4	5392.1	5399.0	5394.4
10°	5511.3	5520.5	5522.7	5525.0	5529.6	5527.3	5513.6	5497.5	5495.2	5493.0	5490.7
12.5°	5637.3	5644.2	5646.5	5655.7	5662.5	5664.8	5648.8	5635.0	5612.1	5616.7	5607.5
15°	5779.4	5793.2	5790.9	5804.6	5822.9	5827.5	5811.5	5788.6	5767.9	5756.5	5749.6
17.5°	5953.6	5962.7	5958.2	5971.9	5994.8	6006.3	5992.5	5962.7	5942.1	5916.9	5903.2
20°	6159.8	6175.9	6180.4	6180.4	6201.1	6212.5	6191.9	6182.7	6150.6	6132.3	6120.9
22.5°	6393.6	6400.4	6414.2	6427.9	6448.6	6444.0	6437.1	6423.3	6393.6	6377.5	6359.2
25°	6657.1	6664.0	6698.3	6728.1	6735.0	6730.4	6721.3	6714.4	6686.9	6650.2	6636.5
27.5°	6964.2	6977.9	7023.7	7051.2	7051.2	7053.5	7035.2	7058.1	6998.5	6955.0	6950.4
30°	7349.2	7358.3	7397.3	7424.8	7411.0	7399.6	7395.0	7417.9	7353.7	7275.8	7257.5
32.5°	7729.6	7761.6	7796.0	7855.6	7807.5	7786.6	7782.3	7798.3	7725.0	7637.9	7612.7
35°	8137.5	8160.4	8224.5	8275.0	8231.4	8183.3	8203.9	8254.3	8167.3	8050.4	8045.8
37.5°	8588.9	8609.5	8692.0	8744.7	8712.7	8630.2	8664.5	8724.1	8637.0	8492.7	8462.9
40°	9058.7	9102.2	9205.3	9260.3	9207.6	9097.6	9161.8	9226.0	9148.1	8980.8	8914.3
42.5°	9585.7	9654.5	9803.5	9830.9	9730.1	9581.2	9693.5	9796.6	9741.6	9549.1	9523.9
45°	10202.2	10243.4	10426.8	10486.3	10346.6	10160.9	10300.7	10488.6	10447.4	10225.1	10177.0
47.5°	10892.0	10930.9	11121.1	11210.5	11034.0	10784.3	11036.3	11281.5	11256.3	11018.0	10995.1
50°	11707.8	11716.9	11980.5	12081.3	11904.8	11689.4	11914.0	12218.8	12118.0	11813.2	11808.6
52.5°	12601.5	12612.9	12945.2	13140.0	13041.5	12798.6	13064.4	13250.0	12993.4	12594.6	12564.8
55°	13376.0	13433.3	13887.1	14405.0	14540.2	14363.7	14443.9	14356.9	13724.4	13165.2	13078.1
57.5°	13692.3	13804.6	14494.3	15461.4	16341.4	16602.6	15983.9	15154.3	14015.4	13224.8	13140.0
60°	12920.0	13041.5	14111.7	15947.2	18193.0	19327.3	17588.0	15289.5	13353.1	12241.7	12108.8
62.5°	10346.6	10380.9	11955.3	14803.7	19272.3	22210.2	18264.0	14136.9	11425.9	9915.7	9863.0
64°	7445.4	7798.3	9466.6	12979.6	18800.3	23307.8	17874.5	12521.3	9281.0	7752.5	7505.0
65°	5568.6	5664.8	7631.0	11084.5	17968.4	23225.3	17118.2	10976.7	7686.0	5932.9	5658.0
67.5°	2103.7	2115.1	2816.4	5525.0	12791.7	19982.7	13064.4	5971.9	3238.0	2342.0	2257.2
70°	873.1	889.1	1033.5	1858.5	5497.5	12830.6	6299.6	2154.1	1184.8	960.2	946.4
72.5°	639.4	648.5	692.1	825.0	1691.2	5268.4	2071.6	914.3	694.4	621.0	614.1
75°	501.9	506.4	538.5	607.3	788.3	1459.7	861.6	627.9	529.4	476.7	472.1
77.5°	382.7	394.2	417.1	462.9	529.4	692.1	570.6	469.8	407.9	364.4	357.5
80°	263.5	277.3	320.8	339.2	355.2	449.2	389.6	355.2	318.5	265.8	249.8
82.5°	162.7	171.9	215.4	231.5	224.6	252.1	249.8	254.4	226.9	165.0	153.5
85°	84.8	89.4	116.9	121.5	112.3	103.1	128.3	149.0	139.8	94.0	91.7
87.5°	18.3	20.6	25.2	22.9	25.2	25.2	32.1	48.1	50.4	32.1	29.8
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)