

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: P457644

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457644
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-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 39403 lumens
Efficiency: N/A
Efficacy: 143.8 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

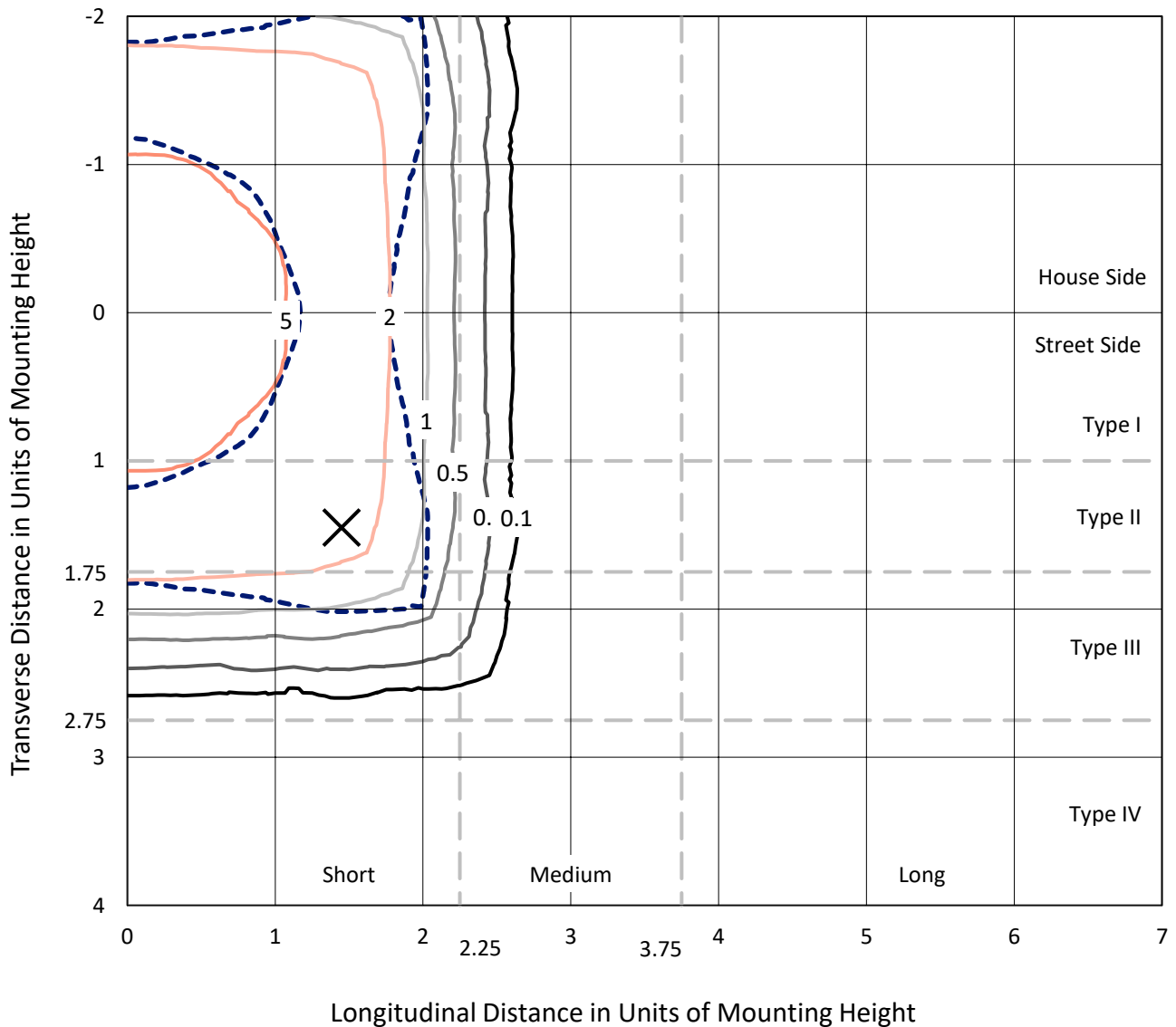
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

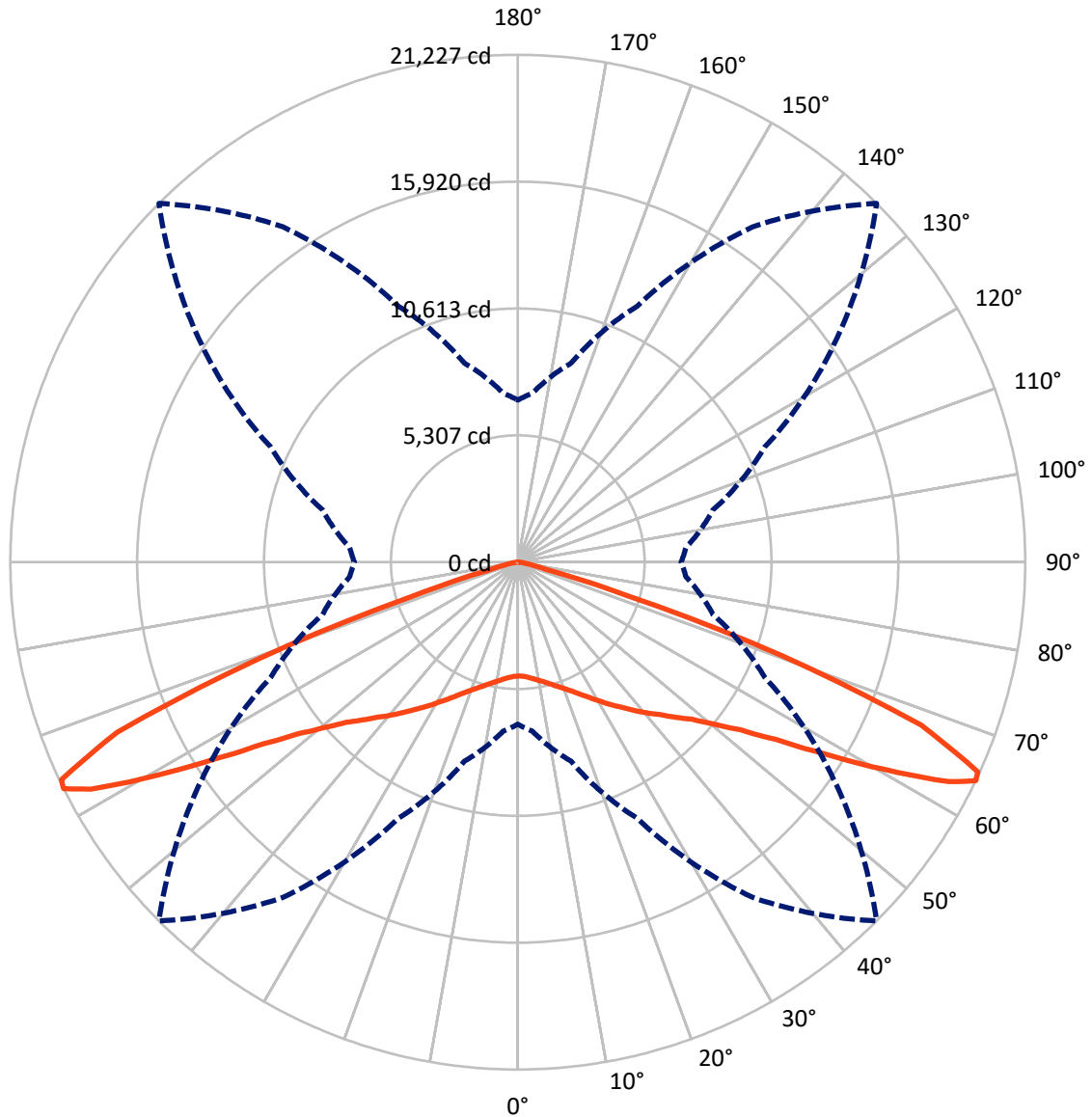
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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
House Side	Lumens	19701.5	0.0	19701.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19701.5	0.0	19701.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39403.0	0.0	39403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.9	1.2
10°-20°	1509.2	3.8
20°-30°	2852.0	7.2
30°-40°	4723.2	12.0
40°-50°	7373.8	18.7
50°-60°	11399.7	28.9
60°-70°	9829.8	24.9
70°-80°	1114.0	2.8
80°-90°	133.5	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°	39403.0	100.0
0°-180°	39403.0	100.0

Coefficient of Utilization



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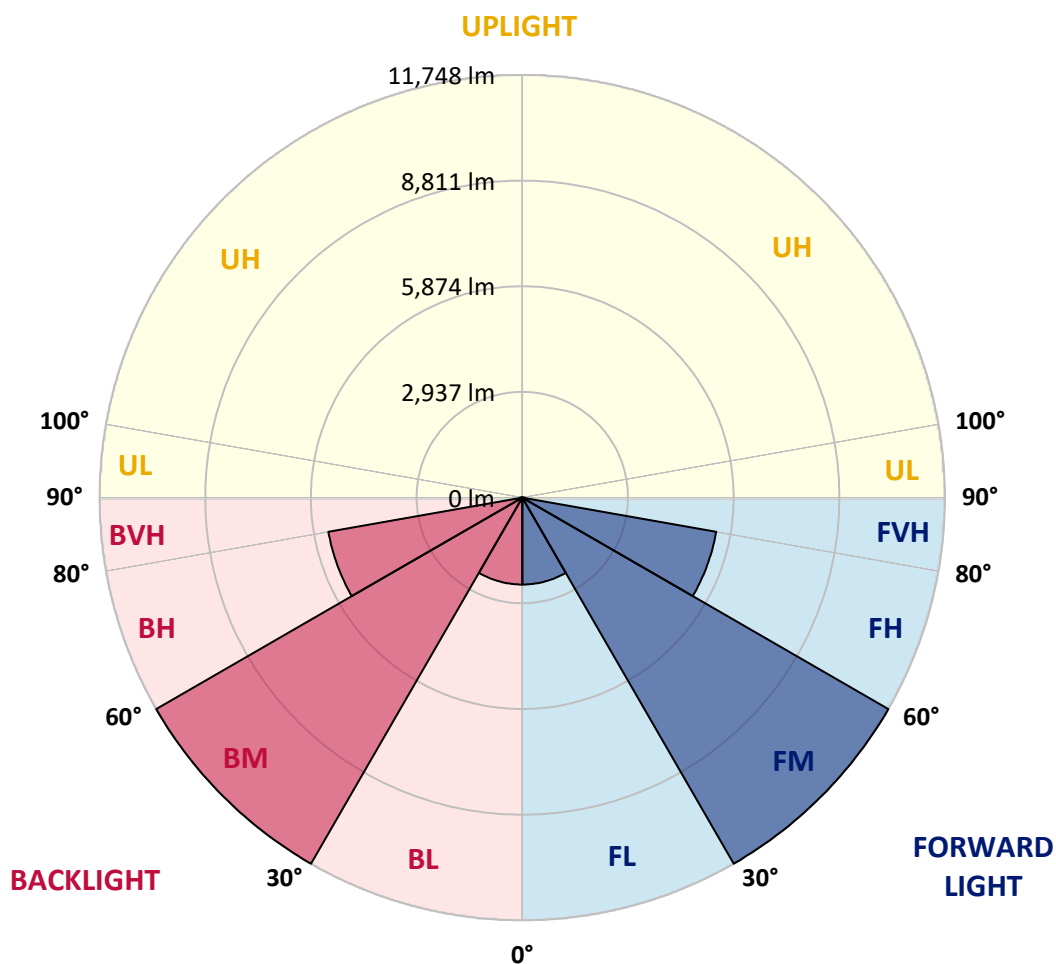
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2414.6	6.1			
FM	(30°-60°)	11748.3	29.8			
FH	(60°-80°)	5471.9	13.9			G3/7500
FVH	(80°-90°)	66.7	0.2			G1/100
BL	(0°-30°)	2414.6	6.1	B3/2500		
BM	(30°-60°)	11748.3	29.8	B5		
BH	(60°-80°)	5471.9	13.9	B5		G3/7500
BVH	(80°-90°)	66.7	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°	4762.5	4762.5	4762.5	4762.5	4762.5	4762.5	4762.5	4762.5	4762.5	4762.5	4762.5
2.5°	4781.3	4791.7	4783.4	4781.3	4779.2	4779.2	4779.2	4781.3	4789.6	4795.9	4791.7
5°	4841.8	4850.2	4846.0	4843.9	4841.8	4843.9	4839.7	4837.6	4843.9	4843.9	4841.8
7.5°	4917.0	4927.4	4923.2	4927.4	4929.5	4931.6	4921.1	4912.8	4910.7	4917.0	4912.8
10°	5019.2	5027.6	5029.7	5031.7	5035.9	5033.8	5021.3	5006.7	5004.6	5002.5	5000.4
12.5°	5134.0	5140.3	5142.3	5150.7	5157.0	5159.0	5144.4	5131.9	5111.0	5115.2	5106.9
15°	5263.4	5275.9	5273.8	5286.4	5303.0	5307.2	5292.6	5271.7	5253.0	5242.5	5236.3
17.5°	5422.0	5430.4	5426.2	5438.7	5459.6	5470.0	5457.5	5430.4	5411.6	5388.6	5376.1
20°	5609.8	5624.4	5628.6	5628.6	5647.4	5657.8	5639.1	5630.7	5601.5	5584.8	5574.4
22.5°	5822.7	5829.0	5841.5	5854.0	5872.8	5868.6	5862.4	5849.8	5822.7	5808.1	5791.4
25°	6062.7	6069.0	6100.3	6127.4	6133.7	6129.5	6121.1	6114.9	6089.8	6056.4	6043.9
27.5°	6342.4	6354.9	6396.6	6421.7	6421.7	6423.8	6407.1	6427.9	6373.7	6334.0	6329.8
30°	6693.0	6701.3	6736.8	6761.9	6749.3	6738.9	6734.7	6755.6	6697.2	6626.2	6609.5
32.5°	7039.4	7068.6	7099.9	7154.2	7110.4	7091.6	7087.4	7102.0	7035.2	6955.9	6933.0
35°	7410.9	7431.8	7490.2	7536.1	7496.5	7452.6	7471.4	7517.3	7438.0	7331.6	7327.4
37.5°	7822.0	7840.8	7916.0	7964.0	7934.7	7859.6	7890.9	7945.2	7865.9	7734.4	7707.3
40°	8249.9	8289.5	8383.4	8433.5	8385.5	8285.4	8343.8	8402.2	8331.3	8178.9	8118.4
42.5°	8729.9	8792.5	8928.2	8953.2	8861.4	8725.7	8828.0	8921.9	8871.8	8696.5	8673.5
45°	9291.3	9328.9	9495.8	9550.1	9422.8	9253.7	9381.0	9552.2	9514.6	9312.2	9268.3
47.5°	9919.5	9955.0	10128.2	10209.6	10048.9	9821.4	10051.0	10274.3	10251.3	10034.3	10013.4
50°	10662.4	10670.8	10910.8	11002.6	10841.9	10645.7	10850.3	11127.8	11036.0	10758.4	10754.3
52.5°	11476.4	11486.8	11789.4	11966.8	11877.1	11655.8	11897.9	12067.0	11833.2	11470.1	11443.0
55°	12181.8	12233.9	12647.2	13118.8	13242.0	13081.3	13154.3	13075.0	12499.0	11989.8	11910.5
57.5°	12469.8	12572.0	13200.2	14080.9	14882.3	15120.3	14556.8	13801.3	12764.0	12044.0	11966.8
60°	11766.5	11877.1	12851.7	14523.4	16568.6	17601.7	16017.7	13924.4	12160.9	11148.7	11027.7
62.5°	9422.8	9454.1	10887.8	13482.0	17551.6	20227.1	16633.3	12874.7	10405.7	9030.4	8982.4
64°	6780.6	7102.0	8621.4	11820.7	17121.7	21226.8	16278.5	11403.3	8452.3	7060.3	6834.9
65°	5071.4	5159.0	6949.7	10094.8	16364.1	21151.7	15589.8	9996.7	6999.8	5403.2	5152.8
67.5°	1915.9	1926.3	2564.9	5031.7	11649.6	18198.6	11897.9	5438.7	2948.9	2132.9	2055.7
70°	795.1	809.8	941.2	1692.6	5006.7	11685.1	5737.1	1961.8	1079.0	874.4	861.9
72.5°	582.3	590.6	630.3	751.3	1540.2	4798.0	1886.6	832.7	632.4	565.6	559.3
75°	457.1	461.2	490.4	553.1	717.9	1329.4	784.7	571.8	482.1	434.1	429.9
77.5°	348.5	359.0	379.8	421.6	482.1	630.3	519.7	427.8	371.5	331.8	325.6
80°	240.0	252.5	292.2	308.9	323.5	409.1	354.8	323.5	290.1	242.1	227.5
82.5°	148.2	156.5	196.2	210.8	204.5	229.6	227.5	231.7	206.6	150.3	139.8
85°	77.2	81.4	106.4	110.6	102.3	93.9	116.9	135.7	127.3	85.6	83.5
87.5°	16.7	18.8	23.0	20.9	23.0	23.0	29.2	43.8	45.9	29.2	27.1
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)