

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: P648138

Luminaire Tested: **GALN-SA9A-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648138
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-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 33877.3 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

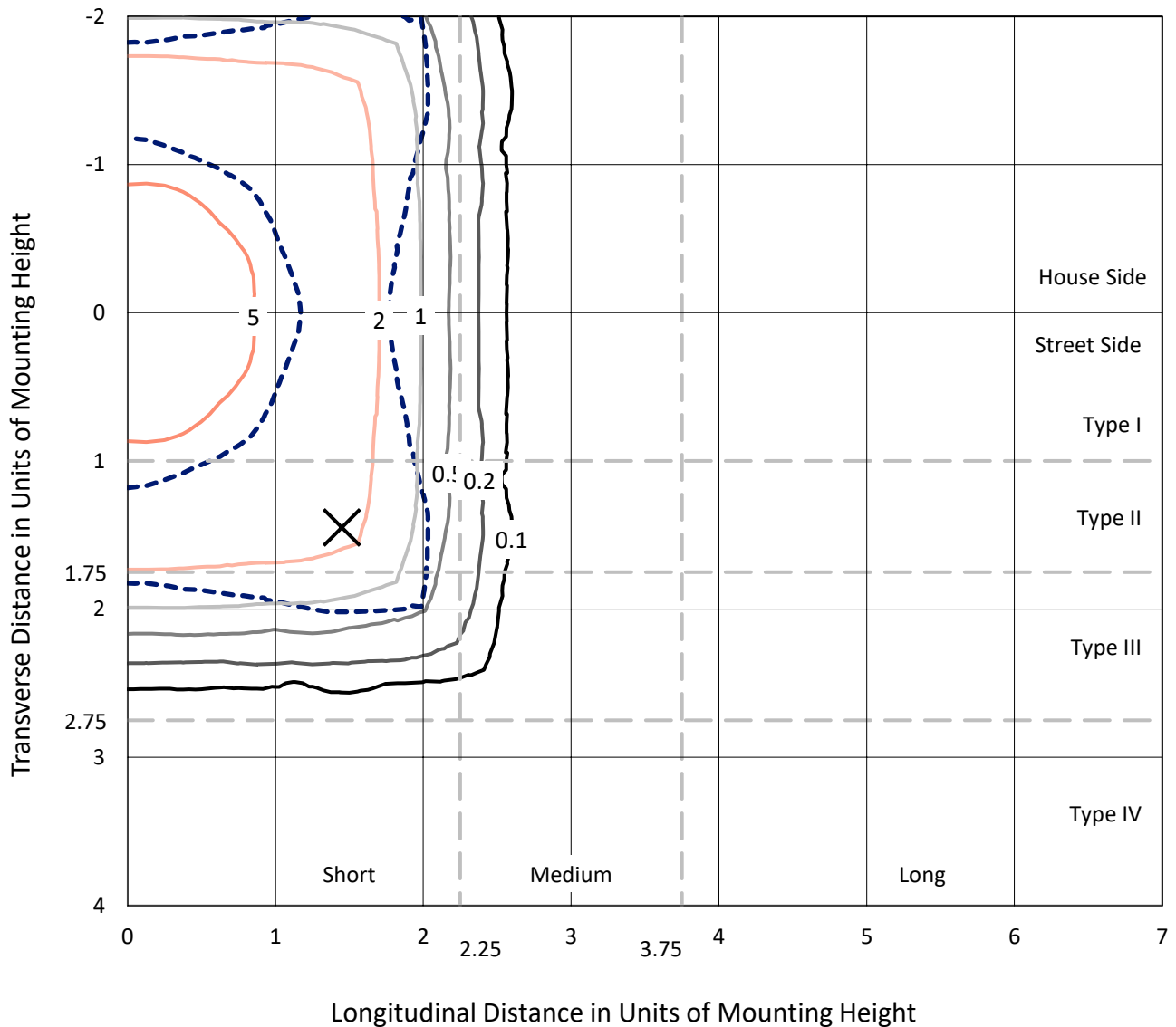
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

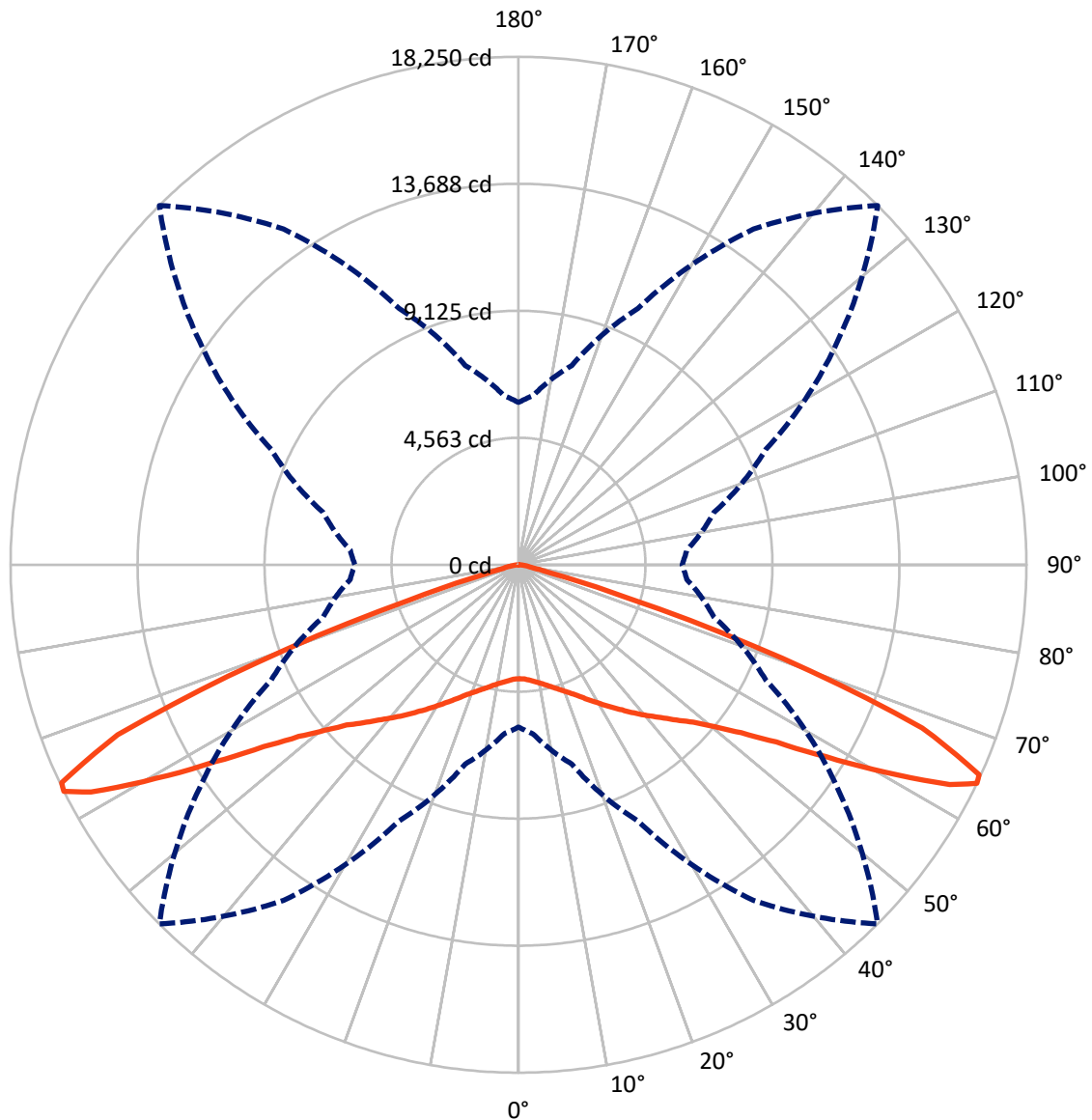
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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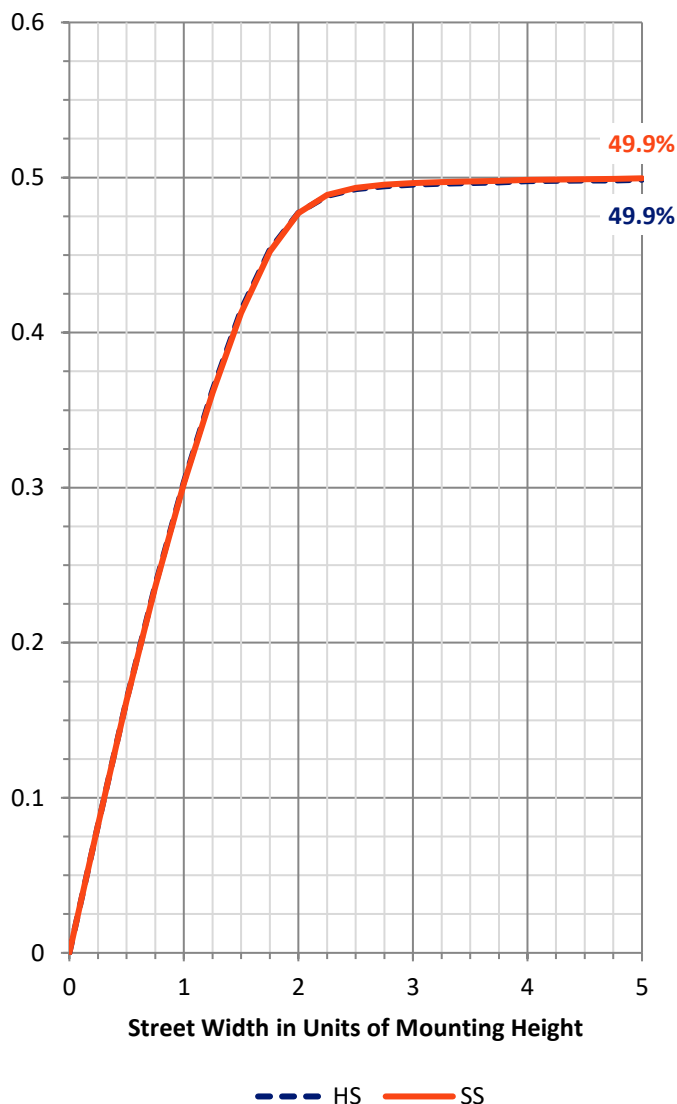
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16938.6	0.0	16938.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16938.6	0.0	16938.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	33877.3	0.0	33877.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.3	1.2
10°-20°	1297.6	3.8
20°-30°	2452.1	7.2
30°-40°	4060.9	12.0
40°-50°	6339.7	18.7
50°-60°	9801.0	28.9
60°-70°	8451.3	24.9
70°-80°	957.8	2.8
80°-90°	114.8	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°	33877.3	100.0
0°-180°	33877.3	100.0

Coefficient of Utilization



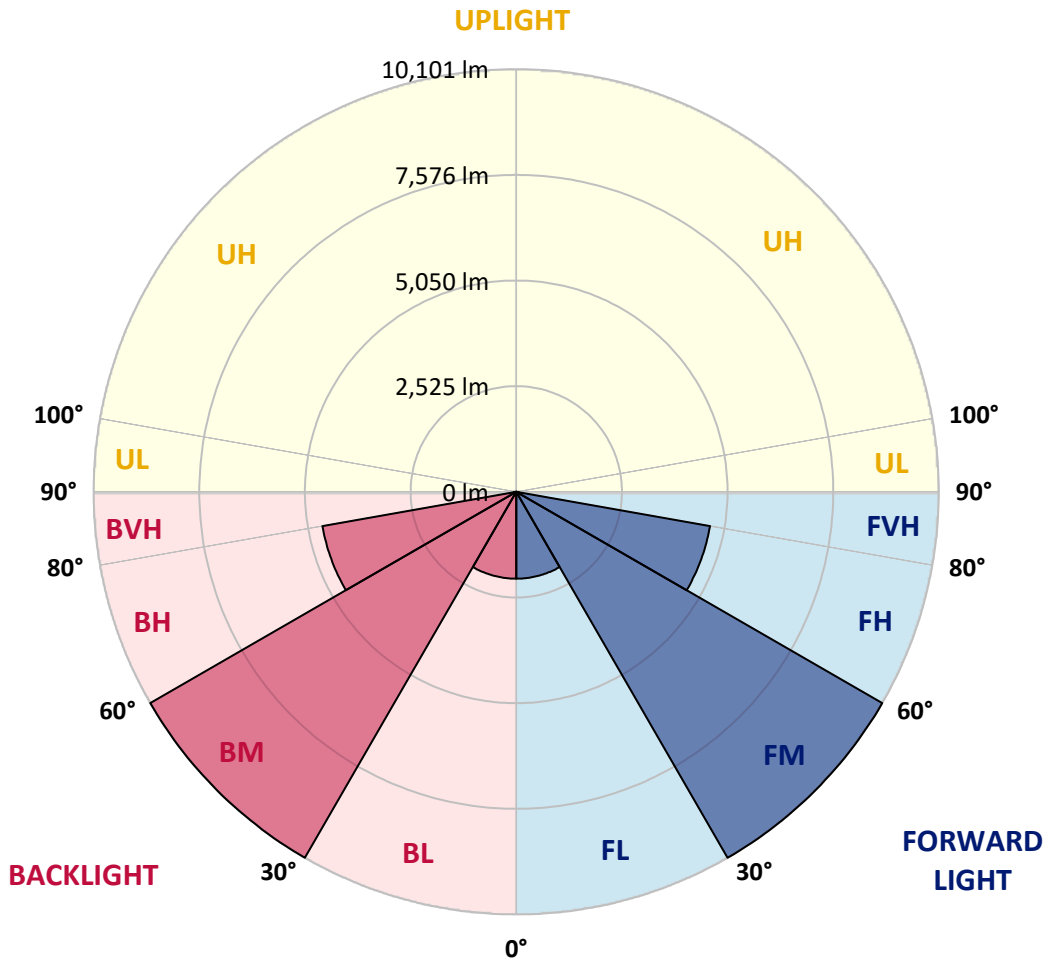
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2076.0	6.1			
FM (30°-60°)	10100.8	29.8			
FH (60°-80°)	4704.5	13.9			G2/5000
FVH (80°-90°)	57.4	0.2			G1/100
BL (0°-30°)	2076.0	6.1	B3/2500		
BM (30°-60°)	10100.8	29.8	B5		
BH (60°-80°)	4704.5	13.9	B4/5000		G2/5000
BVH (80°-90°)	57.4	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4094.6	4094.6	4094.6	4094.6	4094.6	4094.6	4094.6	4094.6	4094.6	4094.6	4094.6
2.5°	4110.8	4119.8	4112.6	4110.8	4109.0	4109.0	4109.0	4110.8	4118.0	4123.4	4119.8
5°	4162.8	4170.0	4166.4	4164.6	4162.8	4164.6	4161.0	4159.2	4164.6	4164.6	4162.8
7.5°	4227.4	4236.4	4232.8	4236.4	4238.2	4239.9	4231.0	4223.8	4222.0	4227.4	4223.8
10°	4315.3	4322.6	4324.3	4326.1	4329.7	4327.9	4317.1	4304.5	4302.7	4301.0	4299.2
12.5°	4414.0	4419.4	4421.2	4428.4	4433.7	4435.5	4423.0	4412.2	4394.3	4397.9	4390.7
15°	4525.3	4536.1	4534.3	4545.0	4559.3	4562.9	4550.4	4532.5	4516.3	4507.3	4501.9
17.5°	4661.7	4668.8	4665.3	4676.0	4693.9	4702.9	4692.1	4668.8	4652.7	4632.9	4622.2
20°	4823.1	4835.7	4839.3	4839.3	4855.5	4864.4	4848.3	4841.1	4815.9	4801.6	4792.7
22.5°	5006.2	5011.5	5022.3	5033.0	5049.3	5045.7	5040.2	5029.4	5006.2	4993.6	4979.3
25°	5212.5	5217.9	5244.8	5268.1	5273.5	5269.9	5262.8	5257.4	5235.8	5207.1	5196.4
27.5°	5453.0	5463.7	5499.6	5521.1	5521.1	5522.9	5508.6	5526.5	5479.8	5445.8	5442.2
30°	5754.4	5761.5	5792.1	5813.6	5802.8	5793.9	5790.3	5808.2	5757.9	5697.0	5682.6
32.5°	6052.3	6077.3	6104.3	6150.9	6113.3	6097.1	6093.5	6106.1	6048.7	5980.5	5960.7
35°	6371.7	6389.6	6439.8	6479.3	6445.2	6407.5	6423.7	6463.1	6395.0	6303.5	6299.9
37.5°	6725.1	6741.2	6805.8	6847.1	6822.0	6757.4	6784.3	6831.0	6762.8	6649.8	6626.5
40°	7093.0	7127.0	7207.7	7250.8	7209.6	7123.4	7173.7	7224.0	7163.0	7032.0	6979.9
42.5°	7505.6	7559.5	7676.1	7697.6	7618.7	7502.1	7590.0	7670.7	7627.7	7476.9	7457.2
45°	7988.3	8020.6	8164.2	8210.8	8101.4	7956.0	8065.4	8212.6	8180.3	8006.3	7968.6
47.5°	8528.4	8558.9	8707.8	8777.8	8639.6	8444.1	8641.4	8833.4	8813.7	8627.1	8609.2
50°	9167.2	9174.3	9380.7	9459.7	9321.5	9152.8	9328.7	9567.3	9488.4	9249.7	9246.1
52.5°	9867.0	9875.9	10136.1	10288.6	10211.5	10021.3	10229.4	10374.8	10173.8	9861.6	9838.2
55°	10473.4	10518.3	10873.6	11279.1	11385.0	11246.8	11309.6	11241.5	10746.2	10308.4	10240.2
57.5°	10721.1	10809.0	11349.0	12106.3	12795.3	12999.8	12515.4	11865.8	10974.1	10355.0	10288.6
60°	10116.4	10211.5	11049.5	12486.7	14245.1	15133.3	13771.4	11971.7	10455.5	9585.3	9481.2
62.5°	8101.4	8128.2	9361.0	11591.3	15090.2	17390.6	14300.7	11069.2	8946.5	7764.0	7722.7
64°	5829.7	6106.1	7412.3	10163.0	14720.6	18250.0	13995.7	9804.2	7267.0	6070.2	5876.4
65°	4360.2	4435.5	5975.1	8679.2	14069.3	18185.4	13403.6	8594.8	6018.1	4645.5	4430.2
67.5°	1647.2	1656.1	2205.2	4326.1	10015.9	15646.5	10229.4	4676.0	2535.4	1833.8	1767.4
70°	683.6	696.2	809.2	1455.2	4304.5	10046.4	4932.6	1686.7	927.7	751.8	741.0
72.5°	500.7	507.8	541.9	646.0	1324.2	4125.2	1622.1	715.9	543.7	486.2	480.8
75°	393.0	396.5	421.6	475.5	617.2	1142.9	674.6	491.6	414.5	373.3	369.7
77.5°	299.7	308.7	326.6	362.5	414.5	541.9	446.8	367.9	319.4	285.3	279.9
80°	206.3	217.1	251.2	265.6	278.1	351.7	305.1	278.1	249.4	208.1	195.6
82.5°	127.4	134.6	168.7	181.3	175.9	197.4	195.6	199.2	177.7	129.2	120.2
85°	66.4	70.0	91.5	95.1	87.9	80.7	100.5	116.7	109.5	73.6	71.8
87.5°	14.3	16.1	19.7	17.9	19.7	19.7	25.1	37.7	39.5	25.1	23.3
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)