

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: P457643

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
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-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39599 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

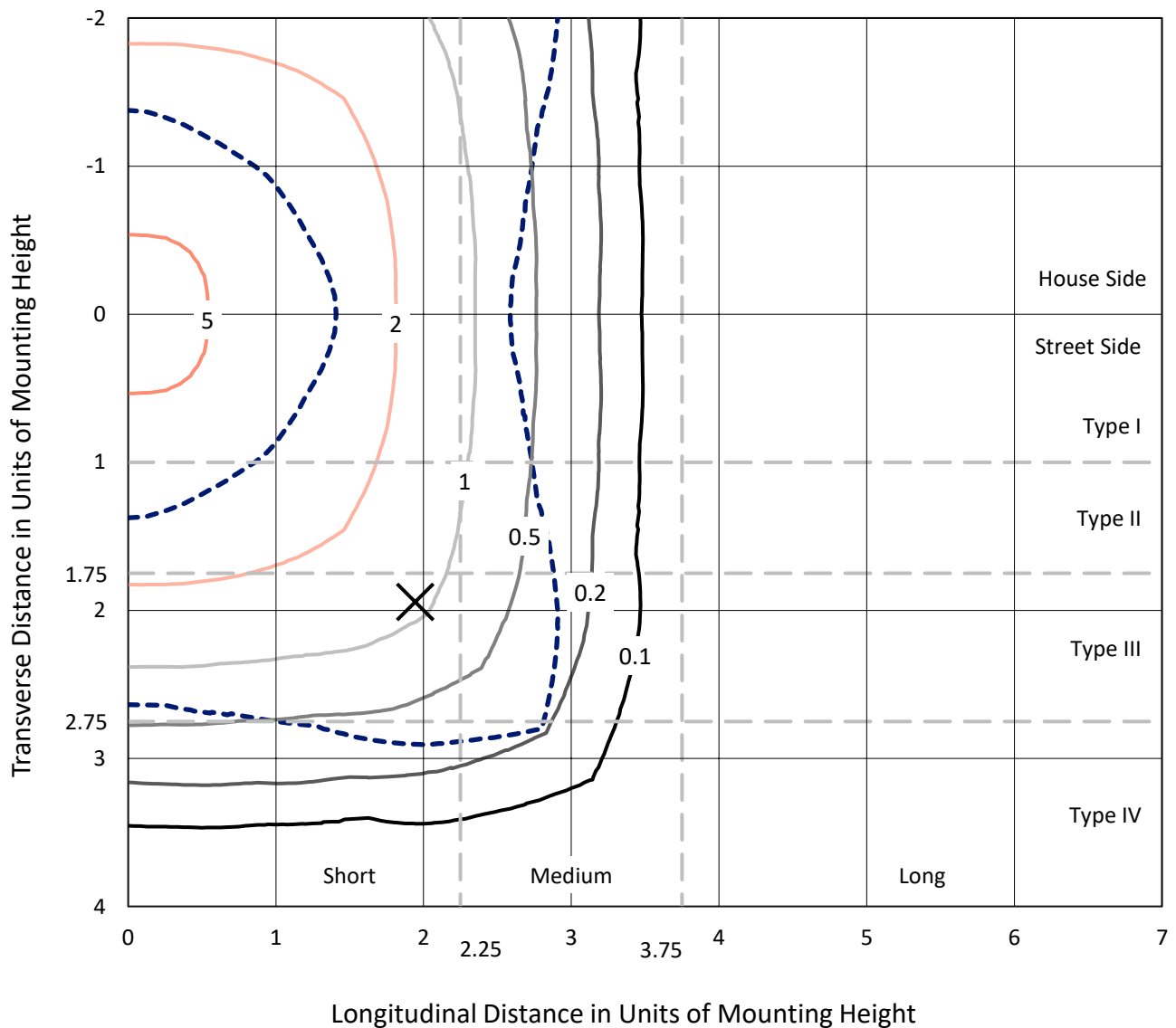




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Iso-Footcandle Lines of Horizontal Illumination

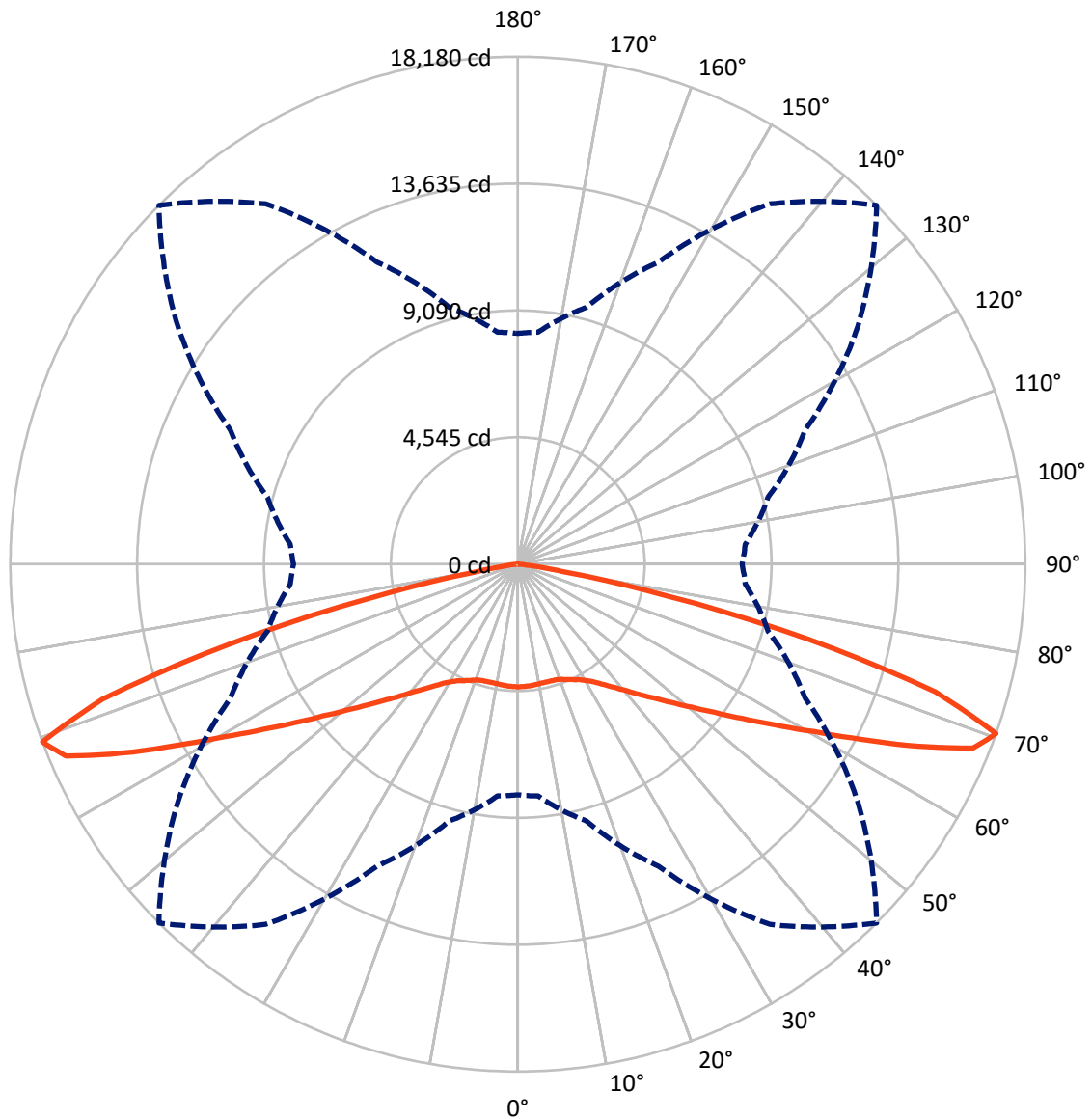
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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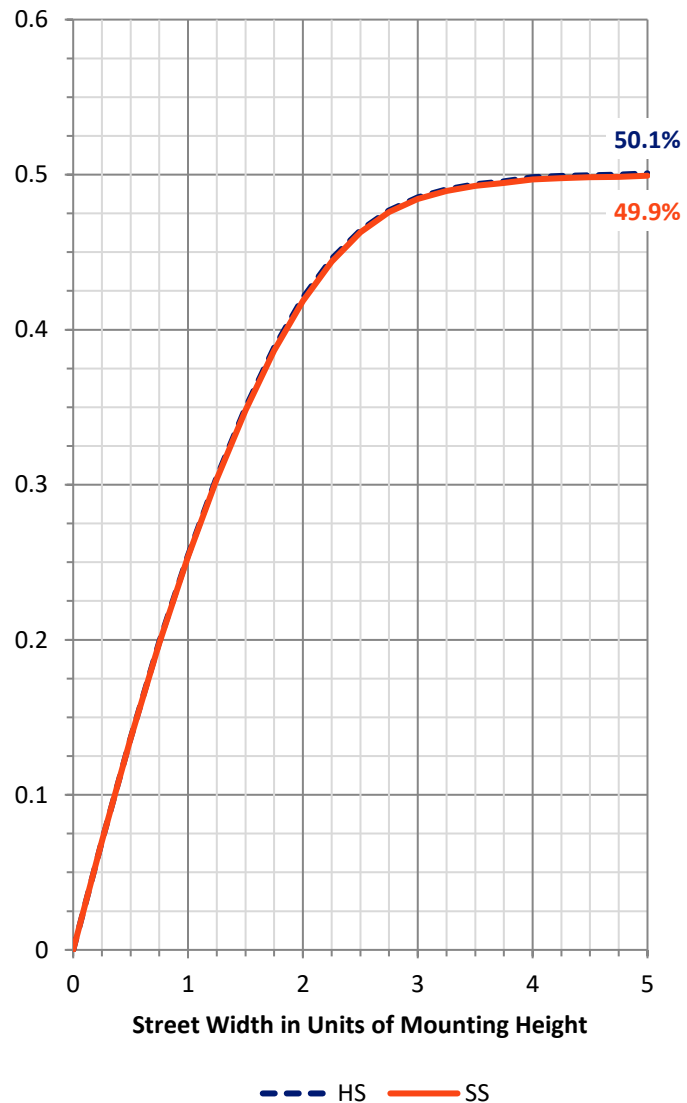
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19799.5	0.0	19799.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19799.5	0.0	19799.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39599.0	0.0	39599.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.0	1.1
10°-20°	1223.6	3.1
20°-30°	2092.8	5.3
30°-40°	3321.7	8.4
40°-50°	5358.7	13.5
50°-60°	8718.8	22.0
60°-70°	12639.1	31.9
70°-80°	5606.3	14.2
80°-90°	221.1	0.6
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°	39599.0	100.0
0°-180°	39599.0	100.0



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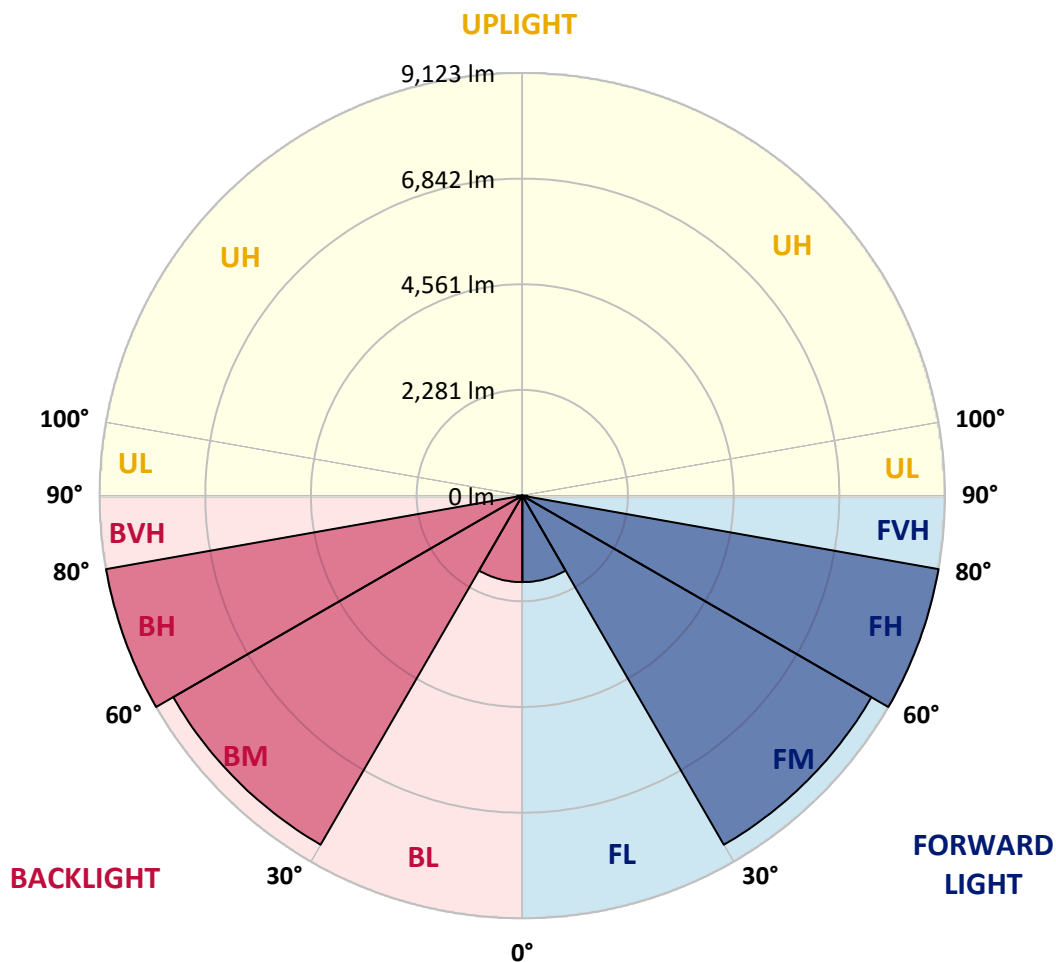
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1866.7	4.7			
FM (30°-60°)	8699.6	22.0			
FH (60°-80°)	9122.7	23.0			G4/12000
FVH (80°-90°)	110.6	0.3			G2/225
BL (0°-30°)	1866.7	4.7	B3/2500		
BM (30°-60°)	8699.6	22.0	B5		
BH (60°-80°)	9122.7	23.0	B5		G4/12000
BVH (80°-90°)	110.6	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4397.3	4397.3	4397.3	4397.3	4397.3	4397.3	4397.3	4397.3	4397.3	4397.3	4397.3
2.5°	4397.3	4401.5	4395.2	4391.0	4388.9	4388.9	4386.8	4388.9	4401.5	4403.5	4397.3
5°	4384.8	4388.9	4386.8	4382.7	4380.6	4380.6	4378.5	4376.4	4386.8	4391.0	4388.9
7.5°	4368.1	4370.2	4368.1	4366.0	4368.1	4366.0	4359.7	4355.5	4363.9	4363.9	4361.8
10°	4338.8	4343.0	4340.9	4343.0	4347.2	4347.2	4338.8	4330.5	4332.6	4328.4	4328.4
12.5°	4303.4	4309.6	4311.7	4320.1	4330.5	4343.0	4324.2	4305.5	4301.3	4299.2	4297.1
15°	4280.4	4286.7	4295.0	4303.4	4322.2	4349.3	4322.2	4292.9	4284.6	4276.2	4272.1
17.5°	4274.2	4282.5	4295.0	4307.5	4332.6	4359.7	4336.8	4307.5	4286.7	4274.2	4270.0
20°	4290.8	4297.1	4315.9	4338.8	4374.3	4401.5	4378.5	4347.2	4315.9	4297.1	4290.8
22.5°	4324.2	4334.7	4357.6	4399.4	4449.5	4489.1	4457.8	4405.6	4355.5	4330.5	4322.2
25°	4397.3	4405.6	4432.8	4489.1	4547.5	4585.1	4551.7	4491.2	4422.3	4388.9	4378.5
27.5°	4507.9	4520.4	4549.6	4616.4	4664.4	4685.3	4662.3	4620.6	4570.5	4535.0	4526.7
30°	4664.4	4679.0	4722.9	4793.8	4825.1	4837.6	4827.2	4800.1	4764.6	4727.0	4718.7
32.5°	4875.2	4883.6	4933.6	5000.4	5029.6	5033.8	5021.3	5008.8	4950.3	4887.7	4883.6
35°	5111.0	5125.6	5186.2	5265.5	5292.6	5294.7	5269.6	5250.9	5182.0	5131.9	5131.9
37.5°	5424.1	5430.3	5488.8	5578.5	5607.7	5599.4	5586.9	5570.2	5497.1	5432.4	5434.5
40°	5791.4	5803.9	5854.0	5958.3	5958.3	5947.9	5956.3	5943.7	5870.7	5808.1	5810.2
42.5°	6227.6	6233.8	6294.4	6405.0	6396.6	6375.7	6384.1	6367.4	6321.5	6250.5	6225.5
45°	6693.0	6718.0	6822.4	6928.8	6912.1	6845.3	6878.7	6874.5	6832.8	6726.4	6732.6
47.5°	7254.4	7296.1	7396.3	7523.6	7504.8	7400.5	7438.0	7463.1	7404.6	7287.8	7266.9
50°	7886.7	7913.9	8062.0	8181.0	8164.3	8053.7	8139.3	8143.4	7997.3	7832.5	7832.5
52.5°	8560.8	8588.0	8788.3	8974.0	8984.5	8823.8	8892.7	8888.5	8650.6	8433.5	8391.8
55°	9316.3	9328.8	9587.6	9861.0	9919.5	9762.9	9771.3	9687.8	9378.9	9126.4	9103.4
57.5°	10096.8	10142.8	10428.7	10783.5	10956.7	10860.7	10816.9	10593.5	10295.1	10005.0	9990.4
60°	10960.9	10962.9	11334.4	11753.9	12104.5	12169.2	11989.7	11691.3	11305.2	10921.2	10904.5
62.5°	11559.8	11649.6	12119.1	12828.7	13456.9	13820.0	13346.3	12720.2	11960.5	11340.7	11278.1
65°	11683.0	11743.5	12459.3	13661.4	14944.9	15727.5	14631.9	13300.4	12004.4	11177.9	11136.2
67.5°	10687.5	10752.2	11716.3	13561.2	15988.4	17593.3	15466.7	13020.7	11261.4	10238.8	10157.4
70°	8266.6	8339.6	9531.3	11937.6	15756.8	18179.7	14871.9	11357.4	9287.1	8183.1	8034.9
72.5°	4395.2	4664.4	5682.9	8193.5	12789.1	15652.4	12194.3	8287.4	5989.7	4896.1	4699.9
75°	1604.9	1638.3	2205.9	3633.4	7440.1	10733.4	7726.0	3952.8	2272.7	1755.2	1665.4
77.5°	663.7	661.6	726.3	1097.8	2702.6	5497.1	3015.7	1160.4	724.2	669.9	661.6
80°	392.4	392.4	432.0	457.1	711.7	1659.2	795.1	517.6	434.1	396.5	402.8
82.5°	175.3	185.7	273.4	288.0	344.4	455.0	384.0	329.7	283.8	196.2	177.4
85°	96.0	83.5	144.0	150.3	164.9	169.0	181.6	179.5	164.9	96.0	98.1
87.5°	18.8	23.0	41.7	31.3	35.5	31.3	41.7	58.4	60.5	33.4	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)