

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: P457677

Luminaire Tested: **GALN-SA9A-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42774 lumens
Efficiency: N/A
Efficacy: 156.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

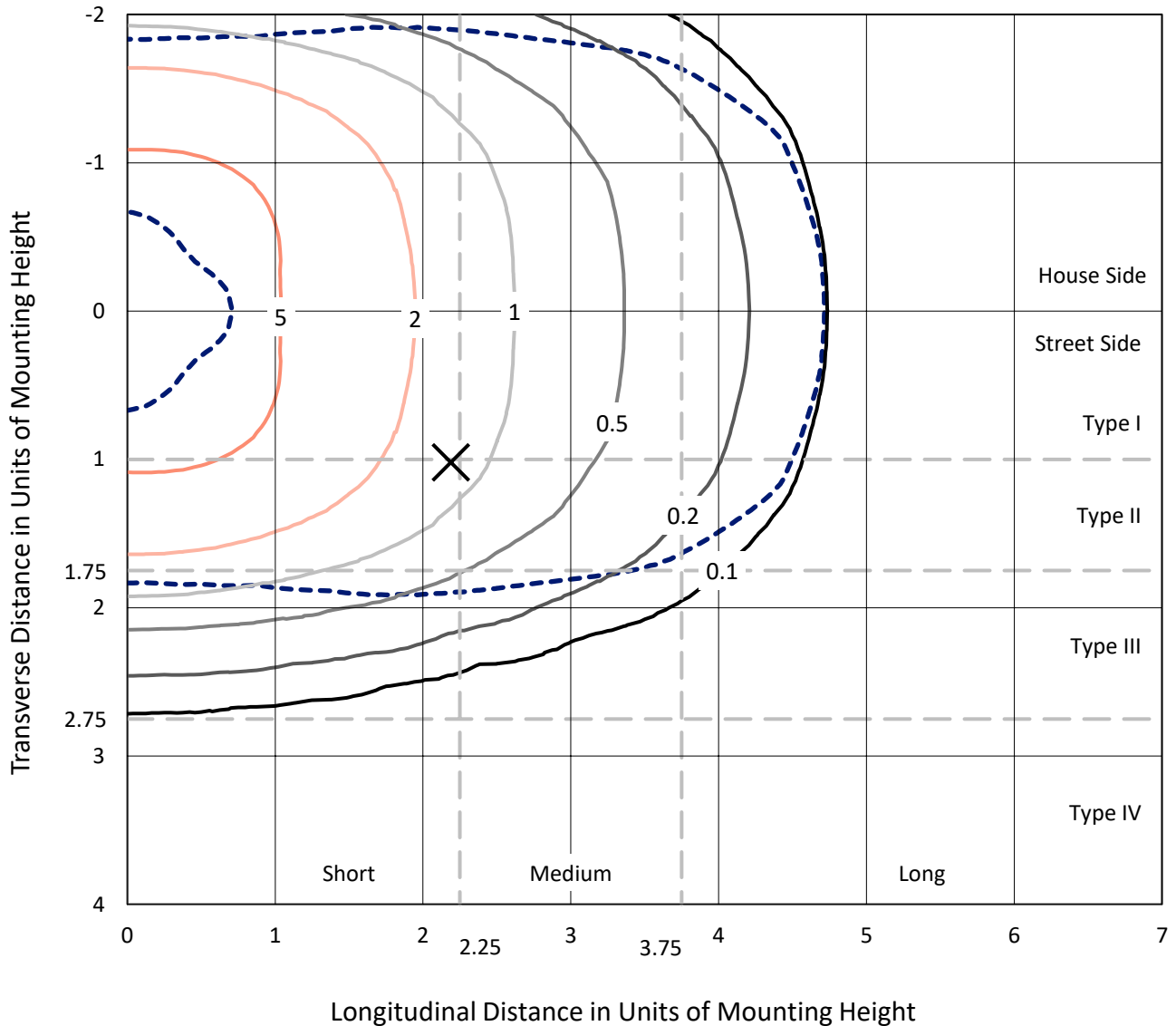
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

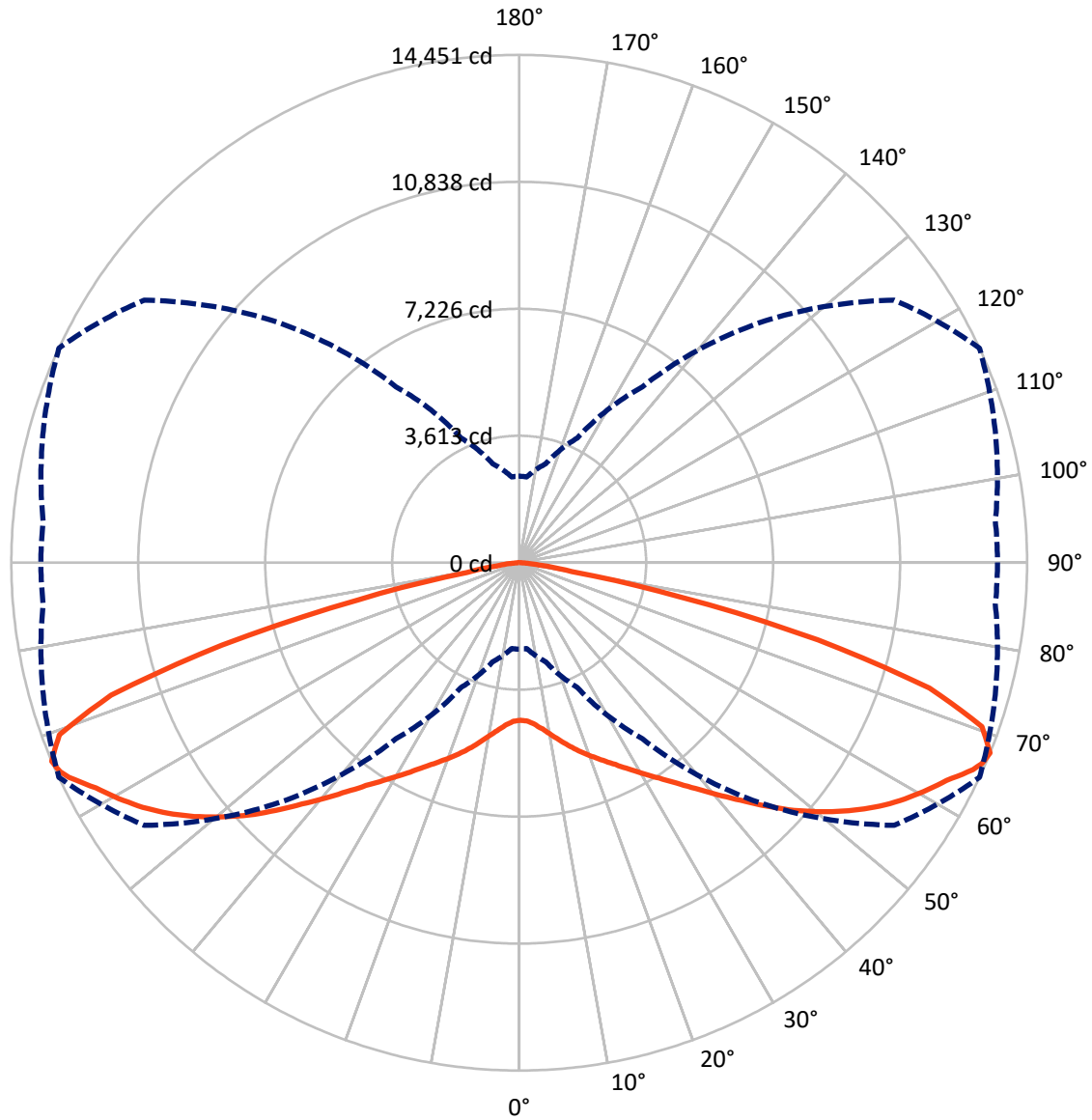
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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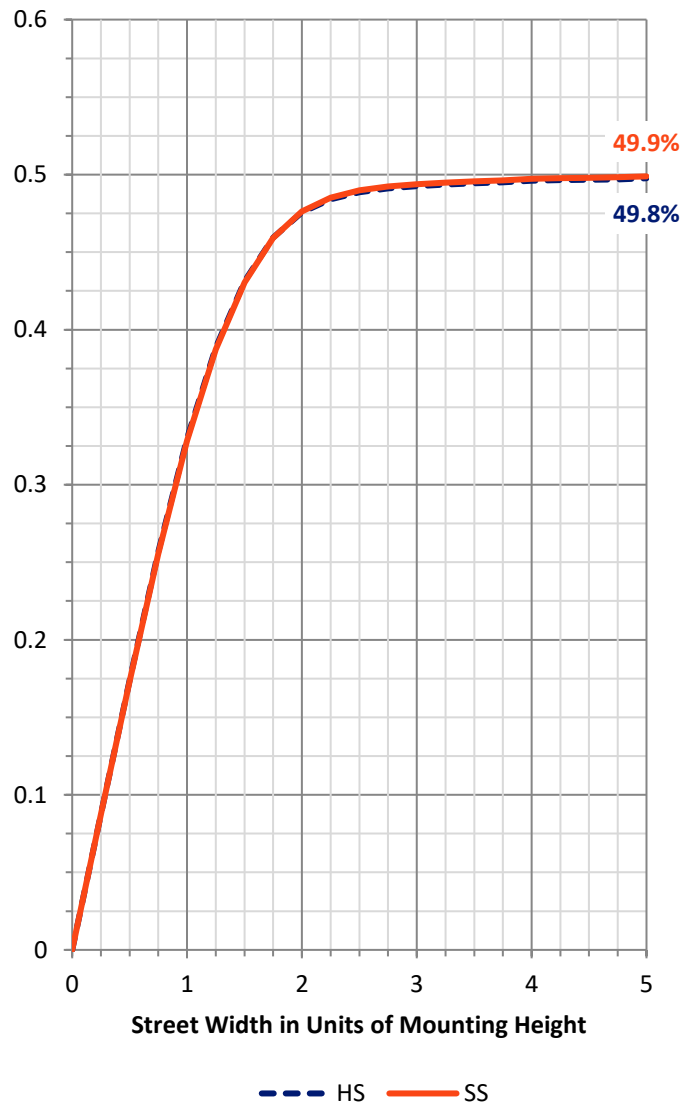
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21387.0	0.0	21387.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21387.0	0.0	21387.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42774.0	0.0	42774.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.9	1.0
10°-20°	1478.9	3.5
20°-30°	2892.8	6.8
30°-40°	4920.3	11.5
40°-50°	7787.4	18.2
50°-60°	10325.9	24.1
60°-70°	9740.5	22.8
70°-80°	4815.2	11.3
80°-90°	371.1	0.9
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°	42774.0	100.0
0°-180°	42774.0	100.0



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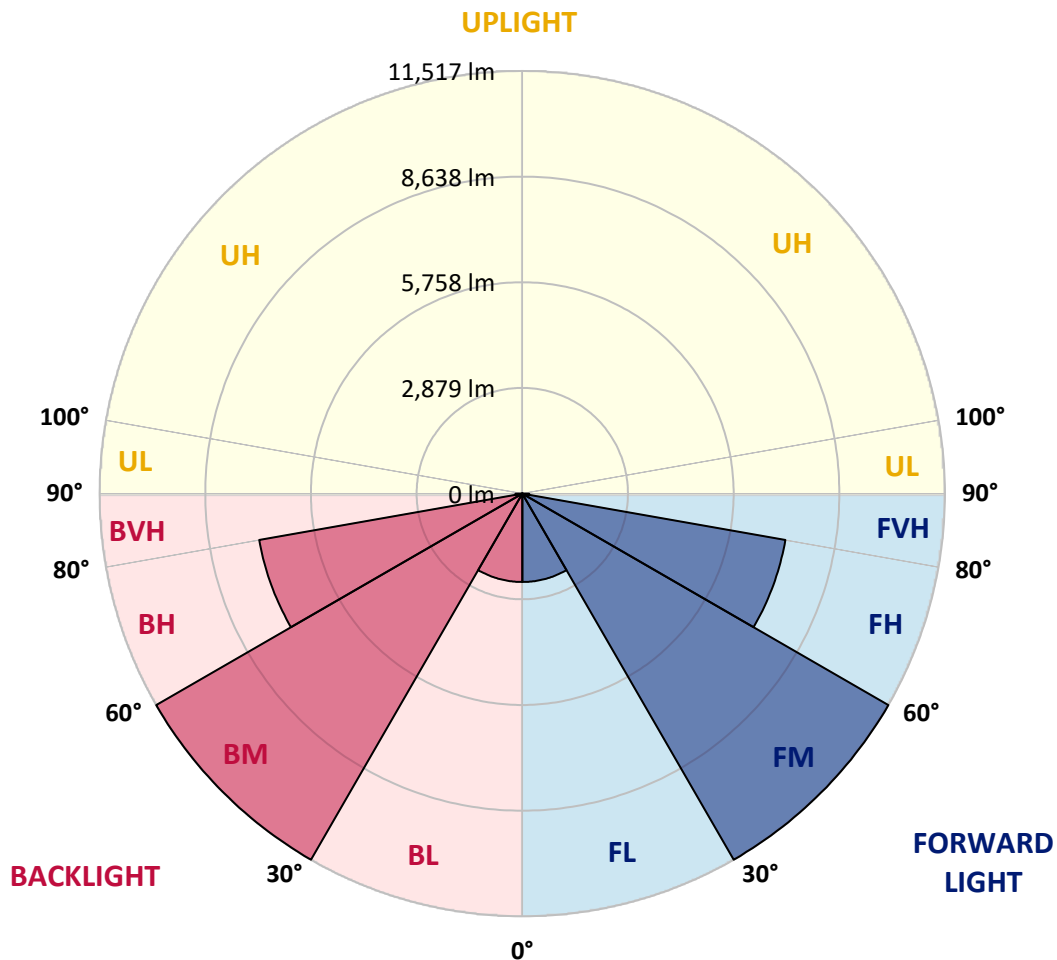
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2406.8	5.6			
FM	(30°-60°)	11516.8	26.9			
FH	(60°-80°)	7277.9	17.0			G3/7500
FVH	(80°-90°)	185.5	0.4			G2/225
BL	(0°-30°)	2406.8	5.6	B3/2500		
BM	(30°-60°)	11516.8	26.9	B5		
BH	(60°-80°)	7277.9	17.0	B5		G5
BVH	(80°-90°)	185.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4480.2	4480.2	4480.2	4480.2	4480.2	4480.2	4480.2	4480.2	4480.2	4480.2	4480.2
2.5°	4457.3	4461.9	4466.4	4473.3	4482.5	4496.2	4505.4	4512.3	4530.6	4532.9	4530.6
5°	4441.2	4445.8	4457.3	4477.9	4507.7	4548.9	4581.0	4620.0	4649.8	4670.4	4665.8
7.5°	4438.9	4448.1	4466.4	4510.0	4567.3	4638.3	4711.7	4778.1	4835.4	4881.2	4874.4
10°	4475.6	4487.1	4516.9	4581.0	4670.4	4773.5	4876.7	4975.2	5057.7	5117.3	5137.9
12.5°	4537.5	4546.7	4601.7	4697.9	4826.2	4954.6	5071.4	5192.9	5307.5	5408.3	5408.3
15°	4645.2	4661.2	4730.0	4869.8	5027.9	5176.9	5296.0	5424.4	5548.1	5662.7	5697.1
17.5°	4794.2	4817.1	4920.2	5098.9	5300.6	5438.1	5550.4	5655.8	5763.5	5873.5	5889.6
20°	4998.1	5021.0	5158.5	5373.9	5612.3	5777.3	5852.9	5878.1	5930.8	6036.2	6050.0
22.5°	5275.4	5298.3	5451.9	5694.8	5960.6	6139.4	6171.4	6111.9	6098.1	6180.6	6189.8
25°	5589.4	5610.0	5786.4	6047.7	6322.7	6517.5	6508.3	6361.7	6279.2	6329.6	6343.3
27.5°	5942.3	5972.1	6150.8	6421.2	6719.2	6891.0	6863.5	6650.4	6473.9	6464.8	6469.4
30°	6393.7	6425.8	6595.4	6854.4	7147.7	7305.8	7248.5	6962.1	6689.4	6597.7	6597.7
32.5°	6870.4	6950.6	7122.5	7392.9	7622.1	7736.7	7649.6	7305.8	6943.7	6815.4	6808.5
35°	7491.4	7535.0	7704.6	7968.1	8140.0	8229.4	8062.1	7693.1	7276.0	7124.8	7104.2
37.5°	8098.7	8135.4	8332.5	8584.6	8793.1	8788.5	8561.6	8153.7	7688.5	7518.9	7505.2
40°	8719.8	8758.7	8983.3	9214.8	9423.3	9405.0	9130.0	8673.9	8178.9	7988.7	8025.4
42.5°	9258.3	9301.9	9556.2	9886.2	10074.1	10069.6	9751.0	9237.7	8722.1	8552.5	8584.6
45°	9748.7	9787.7	10083.3	10461.4	10736.4	10770.8	10422.5	9879.4	9350.0	9132.3	9141.4
47.5°	10094.8	10168.1	10477.5	10910.6	11284.1	11405.6	11064.1	10532.5	9922.9	9696.0	9709.8
50°	10358.3	10404.1	10741.0	11233.7	11705.8	11957.9	11682.9	11137.5	10495.8	10255.2	10287.3
52.5°	10390.4	10445.4	10812.1	11380.4	11985.4	12368.1	12232.9	11728.7	11080.2	10832.7	10901.4
55°	10129.1	10161.2	10598.9	11288.7	12095.4	12672.9	12707.3	12278.7	11637.1	11449.1	11495.0
57.5°	9384.4	9466.9	10021.4	10860.2	11944.1	12835.6	13062.5	12778.3	12200.8	12015.2	12088.5
60°	8162.9	8245.4	8802.3	9865.6	11373.5	12760.0	13355.8	13220.6	12711.8	12562.9	12601.8
62.5°	6396.0	6389.2	7078.9	8382.9	10239.1	12388.7	13573.5	13646.8	13216.0	13028.1	13087.7
65°	4145.6	4166.2	4833.1	6237.9	8527.3	11444.6	13621.6	14190.0	13711.0	13426.8	13470.4
66°	3334.4	3396.2	3962.3	5257.1	7654.2	10825.8	13477.3	14350.4	13862.3	13518.5	13539.1
67.5°	2461.2	2449.8	2915.0	3914.2	6111.9	9650.2	13025.8	14451.2	14034.1	13601.0	13610.2
70°	1404.8	1402.5	1567.5	2149.6	3593.3	6794.8	10979.4	13967.7	14382.5	13898.9	13873.7
72.5°	1026.7	1019.8	1042.7	1187.1	1753.1	3430.6	7573.9	12207.7	14203.7	13850.8	13779.8
75°	861.7	857.1	852.5	870.8	983.1	1553.7	4019.6	8781.6	12324.6	13000.6	12927.3
77.5°	703.5	703.5	705.8	701.2	705.8	818.1	1666.0	4707.1	7505.2	8378.3	8582.3
80°	550.0	547.7	586.7	570.6	534.0	524.8	737.9	1514.8	2491.0	2477.3	2044.2
82.5°	405.6	378.1	446.9	435.4	394.2	334.6	430.8	646.2	831.9	540.8	401.0
85°	256.7	254.4	316.2	288.7	240.6	158.1	206.2	277.3	343.7	208.5	169.6
87.5°	45.8	43.5	100.8	73.3	73.3	45.8	57.3	75.6	112.3	77.9	57.3
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)