

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: P457991

Luminaire Tested: **GALN-SA9B-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457991
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-SA9B-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39772 lumens
Efficiency: N/A
Efficacy: 109.3 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

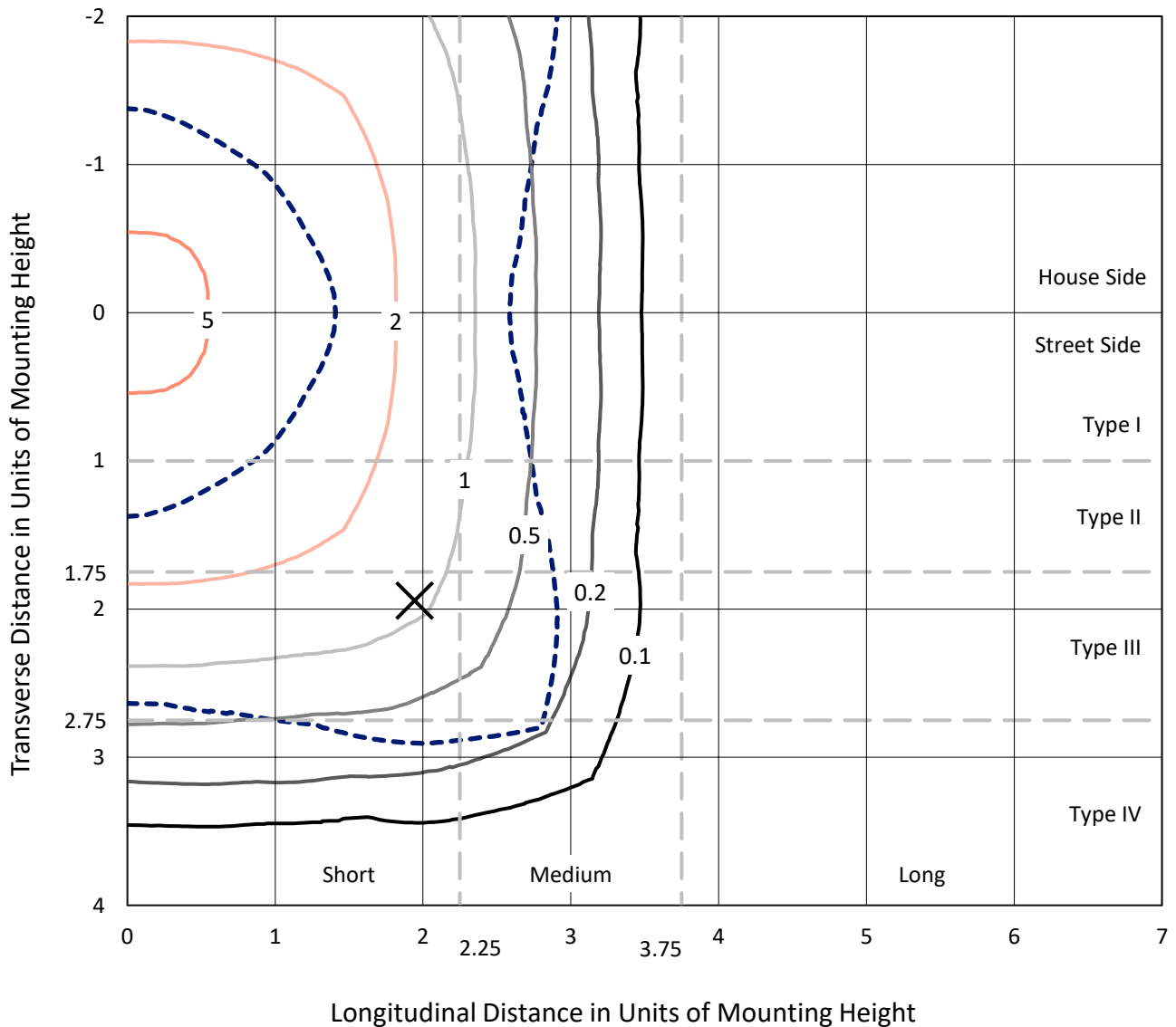
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457991
 CATALOG NUMBER: GALN-SA9B-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

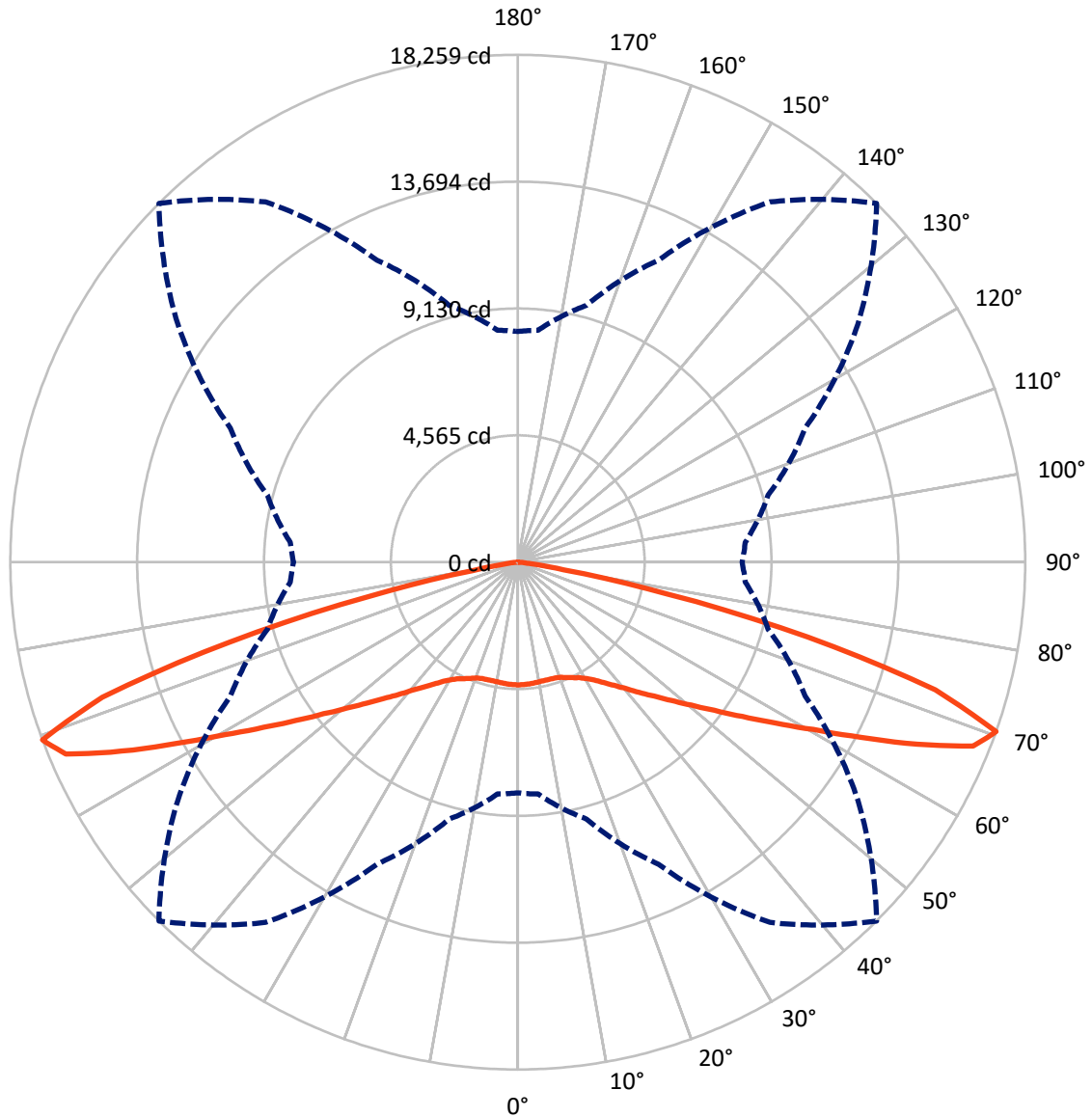
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

REPORT NUMBER: P457991
CATALOG NUMBER: GALN-SA9B-827-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457991

CATALOG NUMBER: GALN-SA9B-827-U-5MQ

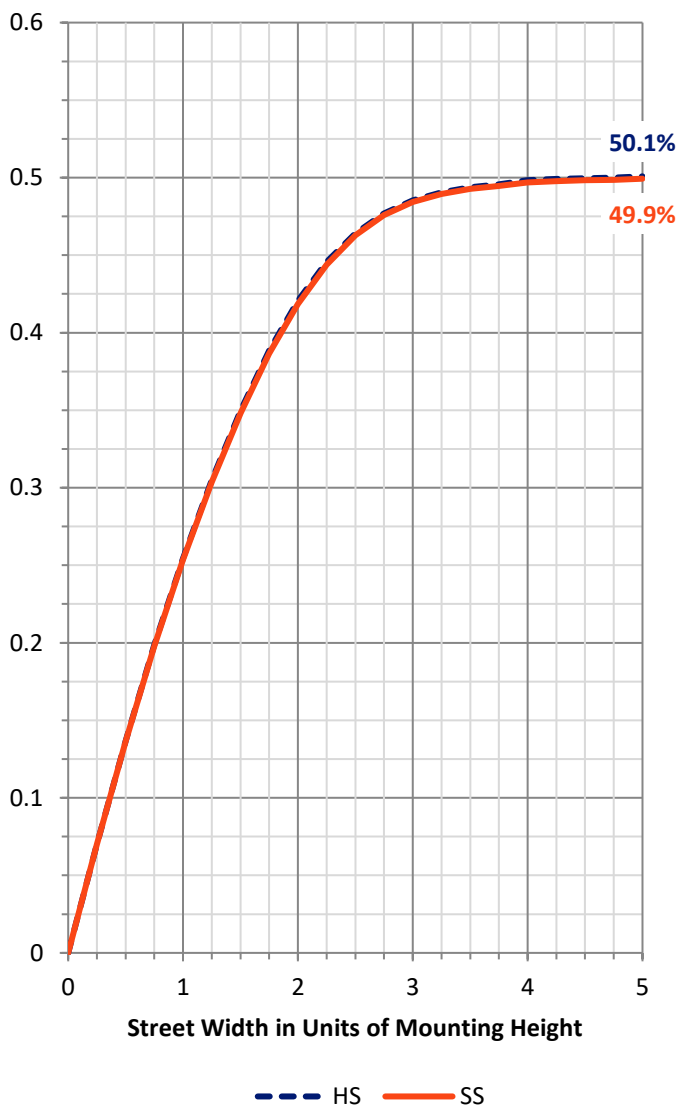
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19886.0	0.0	19886.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19886.0	0.0	19886.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	39772.0	0.0	39772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.8	1.1
10°-20°	1229.0	3.1
20°-30°	2101.9	5.3
30°-40°	3336.2	8.4
40°-50°	5382.2	13.5
50°-60°	8756.9	22.0
60°-70°	12694.3	31.9
70°-80°	5630.7	14.2
80°-90°	222.1	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°	39772.0	100.0
0°-180°	39772.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457991

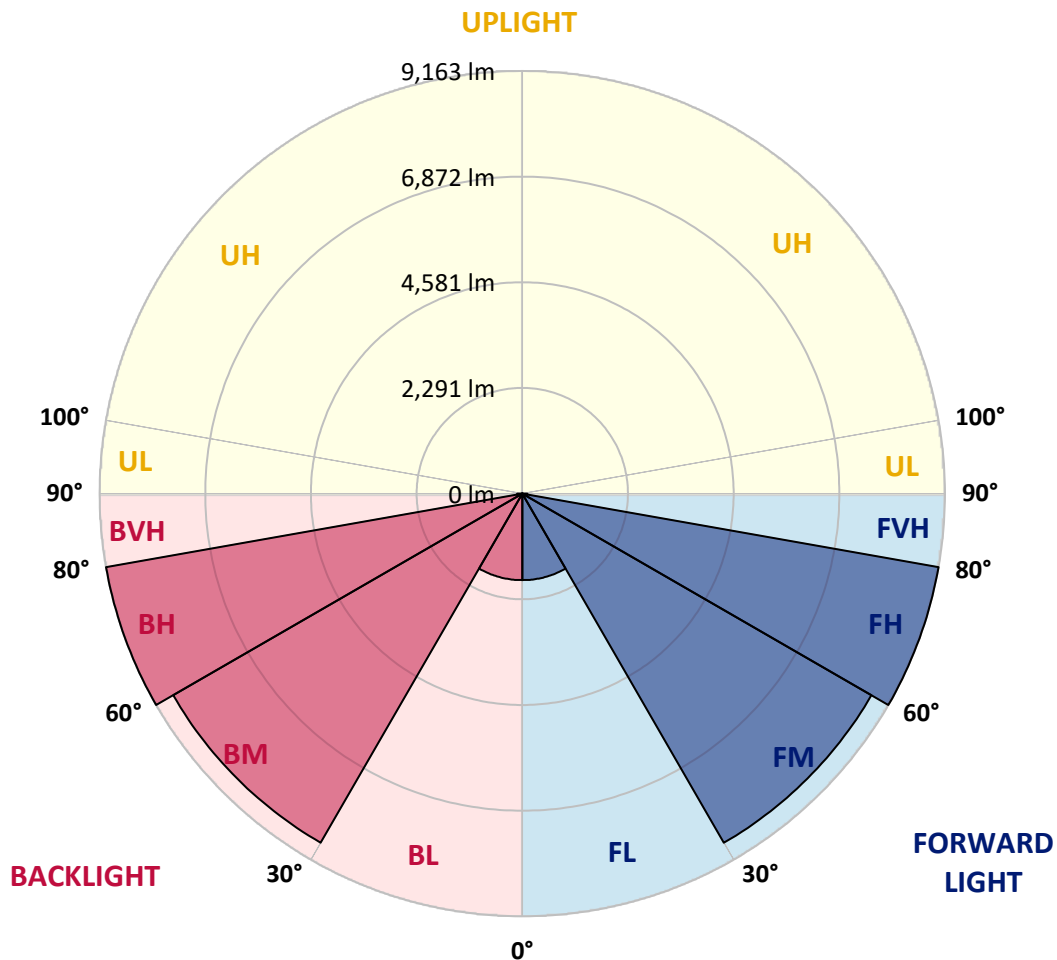
CATALOG NUMBER: GALN-SA9B-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1874.8	4.7			
FM (30°-60°)	8737.6	22.0			
FH (60°-80°)	9162.5	23.0			G4/12000
FVH (80°-90°)	111.0	0.3			G2/225
BL (0°-30°)	1874.8	4.7	B3/2500		
BM (30°-60°)	8737.6	22.0	B5		
BH (60°-80°)	9162.5	23.0	B5		G4/12000
BVH (80°-90°)	111.0	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°	4416.5	4416.5	4416.5	4416.5	4416.5	4416.5	4416.5	4416.5	4416.5	4416.5	4416.5
2.5°	4416.5	4420.7	4414.4	4410.2	4408.1	4408.1	4406.0	4408.1	4420.7	4422.8	4416.5
5°	4403.9	4408.1	4406.0	4401.8	4399.7	4399.7	4397.6	4395.5	4406.0	4410.2	4408.1
7.5°	4387.1	4389.2	4387.1	4385.1	4387.1	4385.1	4378.8	4374.6	4383.0	4383.0	4380.9
10°	4357.8	4362.0	4359.9	4362.0	4366.2	4366.2	4357.8	4349.4	4351.5	4347.3	4347.3
12.5°	4322.2	4328.5	4330.6	4338.9	4349.4	4362.0	4343.1	4324.3	4320.1	4318.0	4315.9
15°	4299.1	4305.4	4313.8	4322.2	4341.0	4368.3	4341.0	4311.7	4303.3	4294.9	4290.7
17.5°	4292.8	4301.2	4313.8	4326.4	4351.5	4378.8	4355.7	4326.4	4305.4	4292.8	4288.6
20°	4309.6	4315.9	4334.7	4357.8	4393.4	4420.7	4397.6	4366.2	4334.7	4315.9	4309.6
22.5°	4343.1	4353.6	4376.7	4418.6	4468.9	4508.7	4477.3	4424.9	4374.6	4349.4	4341.0
25°	4416.5	4424.9	4452.1	4508.7	4567.4	4605.1	4571.6	4510.8	4441.6	4408.1	4397.6
27.5°	4527.6	4540.2	4569.5	4636.6	4684.8	4705.8	4682.7	4640.8	4590.5	4554.8	4546.5
30°	4684.8	4699.5	4743.5	4814.8	4846.2	4858.8	4848.3	4821.0	4785.4	4747.7	4739.3
32.5°	4896.5	4904.9	4955.2	5022.3	5051.6	5055.8	5043.2	5030.7	4972.0	4909.1	4904.9
35°	5133.4	5148.0	5208.8	5288.5	5315.7	5317.8	5292.7	5273.8	5204.6	5154.3	5154.3
37.5°	5447.8	5454.1	5512.8	5602.9	5632.2	5623.8	5611.3	5594.5	5521.1	5456.2	5458.3
40°	5816.7	5829.3	5879.6	5984.4	5984.4	5973.9	5982.3	5969.7	5896.3	5833.5	5835.6
42.5°	6254.8	6261.1	6321.9	6432.9	6424.6	6403.6	6412.0	6395.2	6349.1	6277.8	6252.7
45°	6722.2	6747.4	6852.2	6959.1	6942.3	6875.2	6908.8	6904.6	6862.6	6755.7	6762.0
47.5°	7286.1	7328.0	7428.6	7556.5	7537.6	7432.8	7470.5	7495.7	7437.0	7319.6	7298.6
50°	7921.2	7948.4	8097.3	8216.7	8200.0	8088.9	8174.8	8179.0	8032.3	7866.7	7866.7
52.5°	8598.2	8625.5	8826.7	9013.3	9023.7	8862.3	8931.5	8927.3	8688.4	8470.4	8428.4
55°	9357.0	9369.6	9629.5	9904.1	9962.8	9805.6	9814.0	9730.1	9419.9	9166.3	9143.2
57.5°	10141.0	10187.1	10474.2	10830.6	11004.6	10908.1	10864.1	10639.8	10340.1	10048.7	10034.1
60°	11008.7	11010.8	11383.9	11805.3	12157.4	12222.4	12042.1	11742.4	11354.6	10968.9	10952.1
62.5°	11610.3	11700.5	12172.1	12884.8	13515.7	13880.4	13404.6	12775.8	12012.8	11390.2	11327.4
65°	11734.0	11794.8	12513.7	13721.1	15010.2	15796.2	14695.8	13358.5	12056.8	11226.7	11184.8
67.5°	10734.2	10799.1	11767.5	13620.5	16058.3	17670.2	15534.2	13077.6	11310.6	10283.5	10201.7
70°	8302.7	8376.0	9572.9	11989.7	15825.6	18259.2	14936.8	11407.0	9327.7	8218.8	8070.0
72.5°	4414.4	4684.8	5707.7	8229.3	12844.9	15720.8	12247.5	8323.6	6015.8	4917.5	4720.4
75°	1611.9	1645.4	2215.6	3649.3	7472.6	10780.3	7759.8	3970.0	2282.7	1762.8	1672.7
77.5°	666.6	664.5	729.4	1102.6	2714.5	5521.1	3028.9	1165.4	727.3	672.8	664.5
80°	394.1	394.1	433.9	459.0	714.8	1666.4	798.6	519.8	436.0	398.3	404.5
82.5°	176.1	186.6	274.6	289.3	345.9	457.0	385.7	331.2	285.1	197.0	178.2
85°	96.4	83.8	144.6	150.9	165.6	169.8	182.4	180.3	165.6	96.4	98.5
87.5°	18.9	23.1	41.9	31.4	35.6	31.4	41.9	58.7	60.8	33.5	27.2
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)