

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: P456918

Luminaire Tested: **GALN-SA8B-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456918
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-SA8B-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 40303 lumens
Efficiency: N/A
Efficacy: 124.0 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

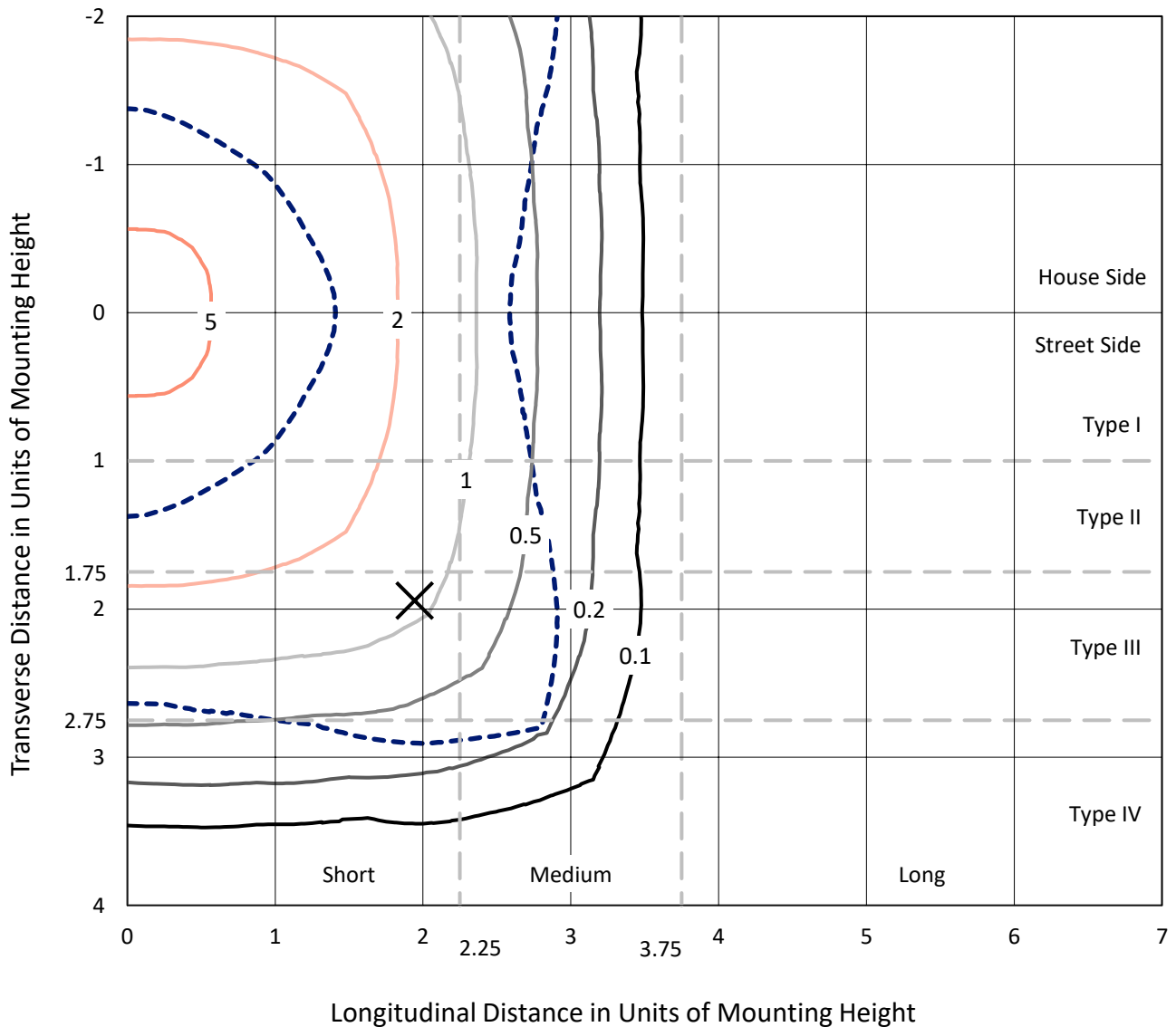
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456918
 CATALOG NUMBER: GALN-SA8B-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

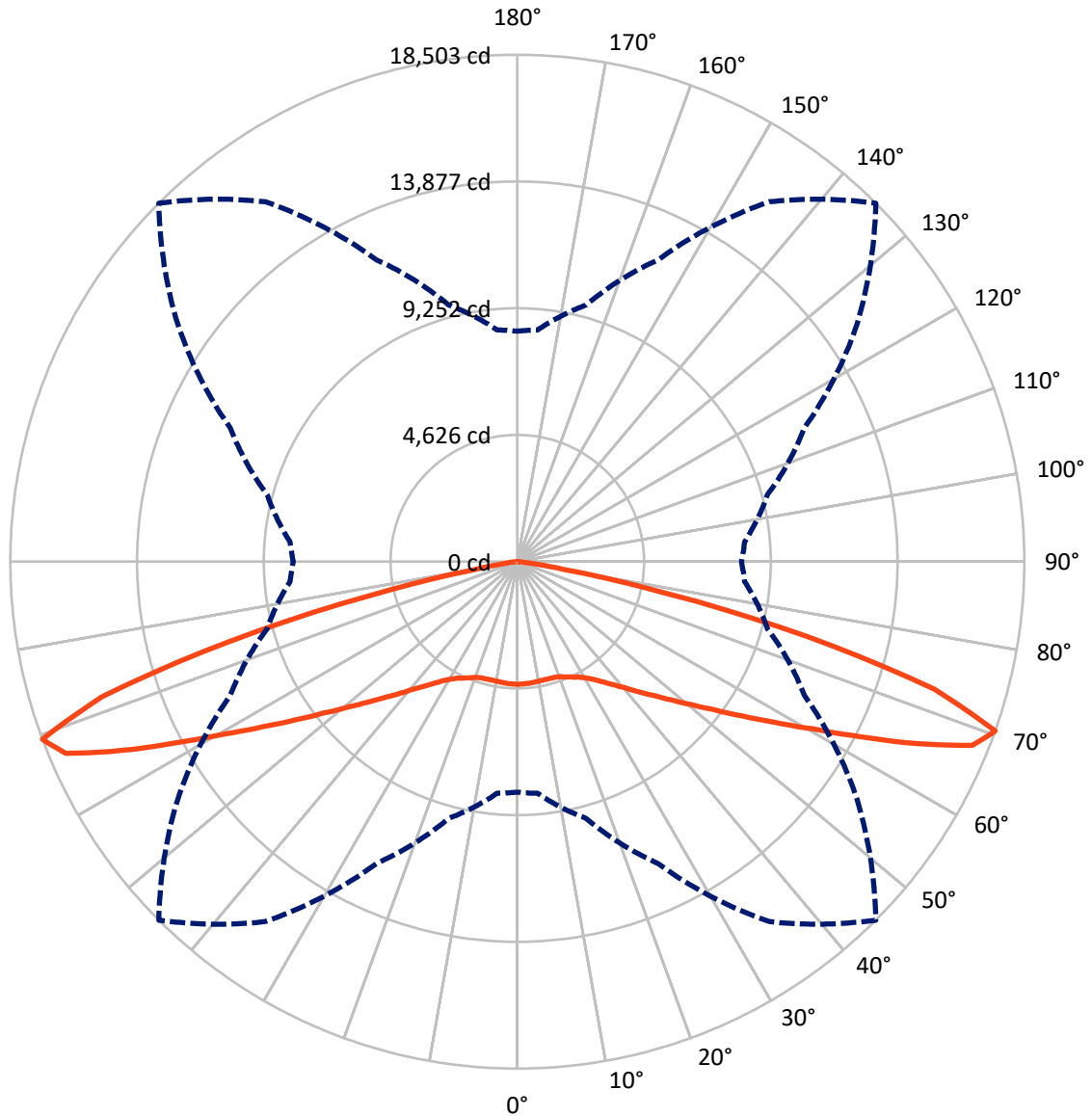
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

REPORT NUMBER: P456918
CATALOG NUMBER: GALN-SA8B-727-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P456918

CATALOG NUMBER: GALN-SA8B-727-U-5MQ

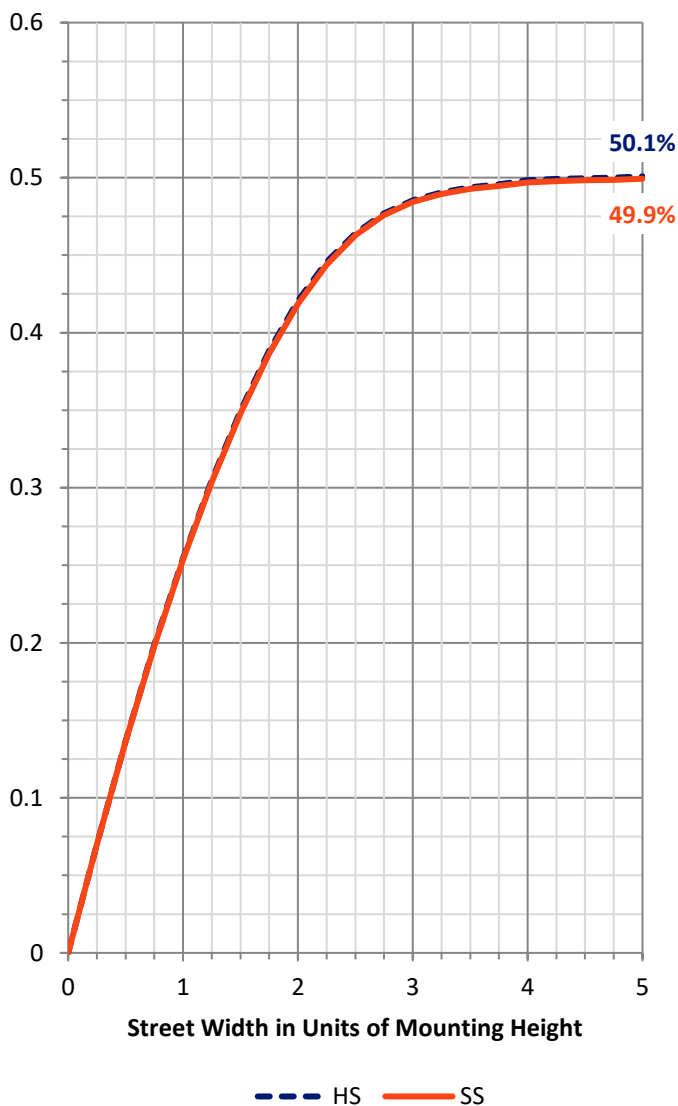
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20151.5	0.0	20151.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20151.5	0.0	20151.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40303.0	0.0	40303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.4	1.1
10°-20°	1245.4	3.1
20°-30°	2130.0	5.3
30°-40°	3380.7	8.4
40°-50°	5454.0	13.5
50°-60°	8873.8	22.0
60°-70°	12863.8	31.9
70°-80°	5705.9	14.2
80°-90°	225.1	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°	40303.0	100.0
0°-180°	40303.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456918

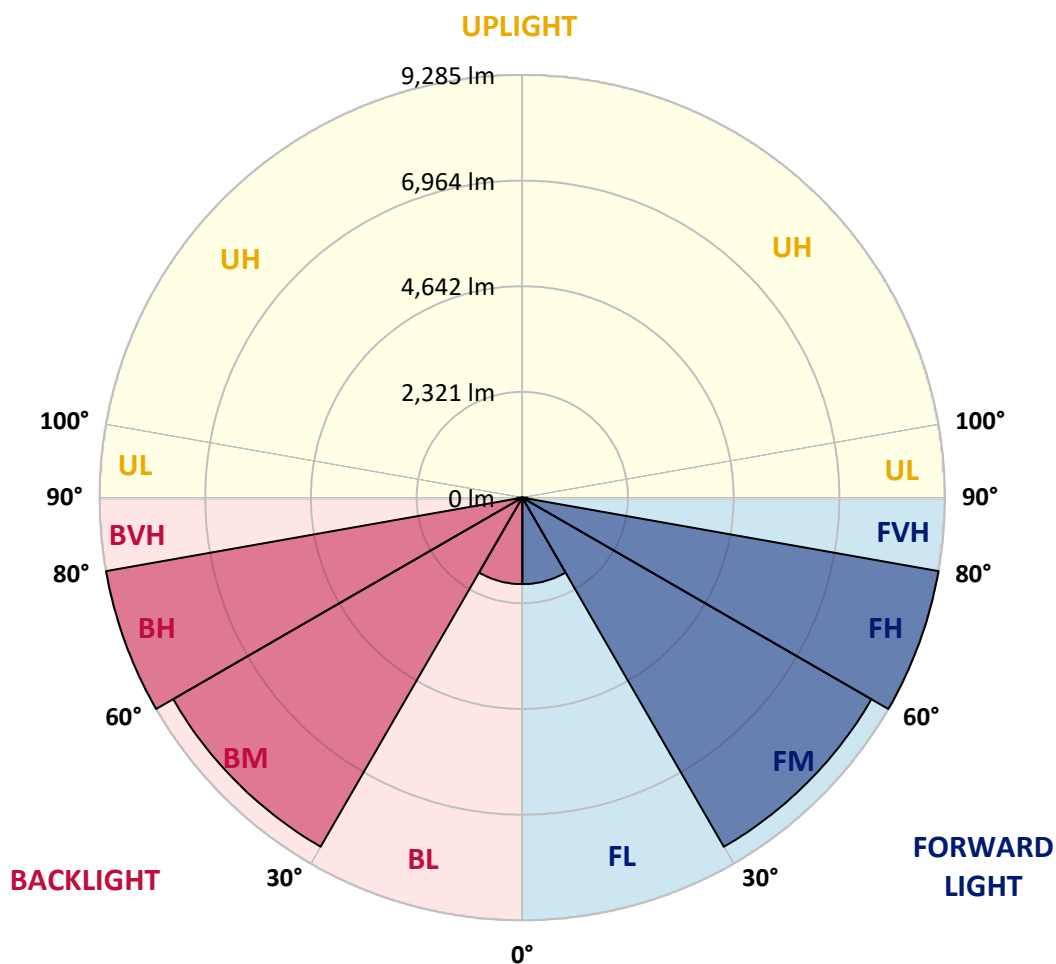
CATALOG NUMBER: GALN-SA8B-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1899.9	4.7			
FM (30°-60°)	8854.3	22.0			
FH (60°-80°)	9284.9	23.0			G4/12000
FVH (80°-90°)	112.5	0.3			G2/225
BL (0°-30°)	1899.9	4.7	B3/2500		
BM (30°-60°)	8854.3	22.0	B5		
BH (60°-80°)	9284.9	23.0	B5		G4/12000
BVH (80°-90°)	112.5	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





REPORT NUMBER: P456918

CATALOG NUMBER: GALN-SA8B-727-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4475.5	4475.5	4475.5	4475.5	4475.5	4475.5	4475.5	4475.5	4475.5	4475.5	4475.5
2.5°	4475.5	4479.7	4473.3	4469.1	4467.0	4467.0	4464.8	4467.0	4479.7	4481.8	4475.5
5°	4462.7	4467.0	4464.8	4460.6	4458.5	4458.5	4456.3	4454.2	4464.8	4469.1	4467.0
7.5°	4445.7	4447.8	4445.7	4443.6	4445.7	4443.6	4437.2	4433.0	4441.5	4441.5	4439.3
10°	4416.0	4420.2	4418.1	4420.2	4424.5	4424.5	4416.0	4407.5	4409.6	4405.4	4405.4
12.5°	4379.9	4386.2	4388.4	4396.9	4407.5	4420.2	4401.1	4382.0	4377.8	4375.6	4373.5
15°	4356.5	4362.9	4371.4	4379.9	4399.0	4426.6	4399.0	4369.3	4360.8	4352.3	4348.0
17.5°	4350.1	4358.6	4371.4	4384.1	4409.6	4437.2	4413.9	4384.1	4362.9	4350.1	4345.9
20°	4367.1	4373.5	4392.6	4416.0	4452.1	4479.7	4456.3	4424.5	4392.6	4373.5	4367.1
22.5°	4401.1	4411.7	4435.1	4477.6	4528.6	4568.9	4537.1	4484.0	4433.0	4407.5	4399.0
25°	4475.5	4484.0	4511.6	4568.9	4628.4	4666.6	4632.6	4571.0	4500.9	4467.0	4456.3
27.5°	4588.0	4600.8	4630.5	4698.5	4747.3	4768.6	4745.2	4702.7	4651.8	4615.6	4607.2
30°	4747.3	4762.2	4806.8	4879.0	4910.9	4923.6	4913.0	4885.4	4849.3	4811.1	4802.6
32.5°	4961.9	4970.4	5021.3	5089.3	5119.1	5123.3	5110.6	5097.8	5038.3	4974.6	4970.4
35°	5201.9	5216.8	5278.4	5359.1	5386.7	5388.8	5363.3	5344.2	5274.1	5223.1	5223.1
37.5°	5520.5	5526.9	5586.4	5677.7	5707.4	5698.9	5686.2	5669.2	5594.9	5529.0	5531.1
40°	5894.4	5907.1	5958.1	6064.3	6064.3	6053.7	6062.2	6049.4	5975.1	5911.3	5913.5
42.5°	6338.3	6344.7	6406.3	6518.8	6510.3	6489.1	6497.6	6480.6	6433.9	6361.7	6336.2
45°	6812.0	6837.4	6943.7	7052.0	7035.0	6967.0	7001.0	6996.8	6954.3	6845.9	6852.3
47.5°	7383.3	7425.8	7527.8	7657.3	7638.2	7532.0	7570.3	7595.7	7536.3	7417.3	7396.1
50°	8026.9	8054.6	8205.4	8326.4	8309.4	8196.9	8284.0	8288.2	8139.5	7971.7	7971.7
52.5°	8713.0	8740.6	8944.5	9133.6	9144.2	8980.7	9050.7	9046.5	8804.4	8583.4	8541.0
55°	9481.9	9494.7	9758.1	10036.3	10095.8	9936.5	9945.0	9860.0	9545.7	9288.6	9265.3
57.5°	10276.3	10323.1	10614.1	10975.2	11151.5	11053.8	11009.2	10781.9	10478.1	10182.9	10168.0
60°	11155.7	11157.8	11535.9	11962.9	12319.7	12385.6	12202.9	11899.2	11506.2	11115.4	11098.4
62.5°	11765.3	11856.7	12334.6	13056.8	13696.1	14065.7	13583.6	12946.3	12173.2	11542.3	11478.6
65°	11890.7	11952.3	12680.8	13904.3	15210.6	16007.1	14892.0	13536.8	12217.8	11376.6	11334.1
67.5°	10877.5	10943.3	11924.6	13802.3	16272.7	17906.1	15741.6	13252.2	11461.6	10420.8	10337.9
70°	8413.5	8487.9	9700.7	12149.8	16036.9	18503.0	15136.3	11559.3	9452.2	8328.6	8177.7
72.5°	4473.3	4747.3	5783.9	8339.2	13016.4	15930.7	12411.1	8434.8	6096.1	4983.1	4783.5
75°	1633.4	1667.4	2245.2	3698.0	7572.4	10924.2	7863.4	4023.0	2313.1	1786.4	1695.0
77.5°	675.5	673.3	739.2	1117.3	2750.7	5594.9	3069.3	1181.0	737.1	681.8	673.3
80°	399.3	399.3	439.7	465.2	724.3	1688.7	809.3	526.8	441.8	403.6	409.9
82.5°	178.4	189.0	278.3	293.1	350.5	463.1	390.8	335.6	288.9	199.7	180.5
85°	97.7	85.0	146.6	152.9	167.8	172.1	184.8	182.7	167.8	97.7	99.8
87.5°	19.1	23.4	42.5	31.9	36.1	31.9	42.5	59.5	61.6	34.0	27.6
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)