

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: P652535

Luminaire Tested: **GALN-SA8B-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652535
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-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 40528.6 lumens
Efficiency: N/A
Efficacy: 124.7 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

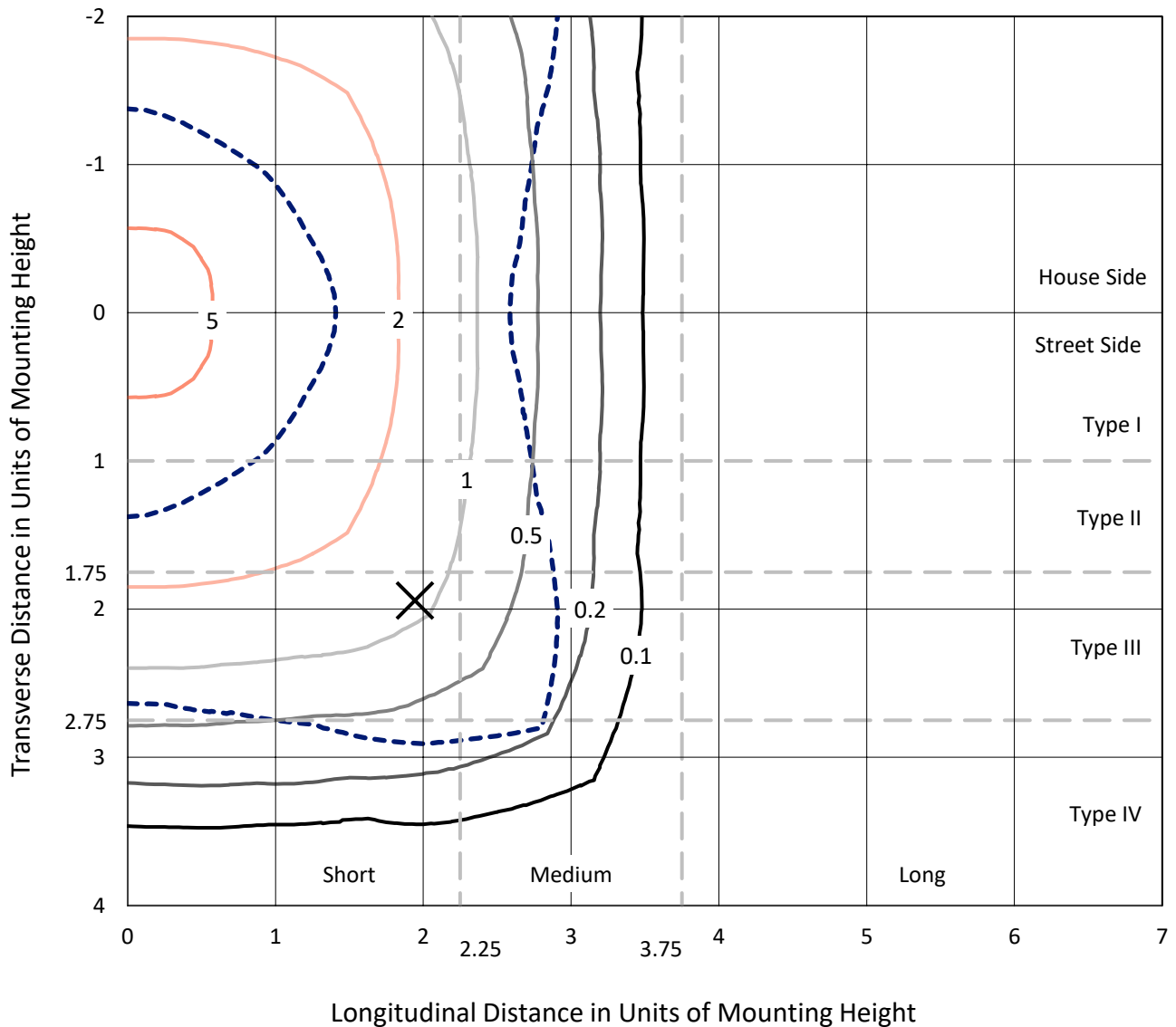
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652535
 CATALOG NUMBER: GALN-SA8B-840-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

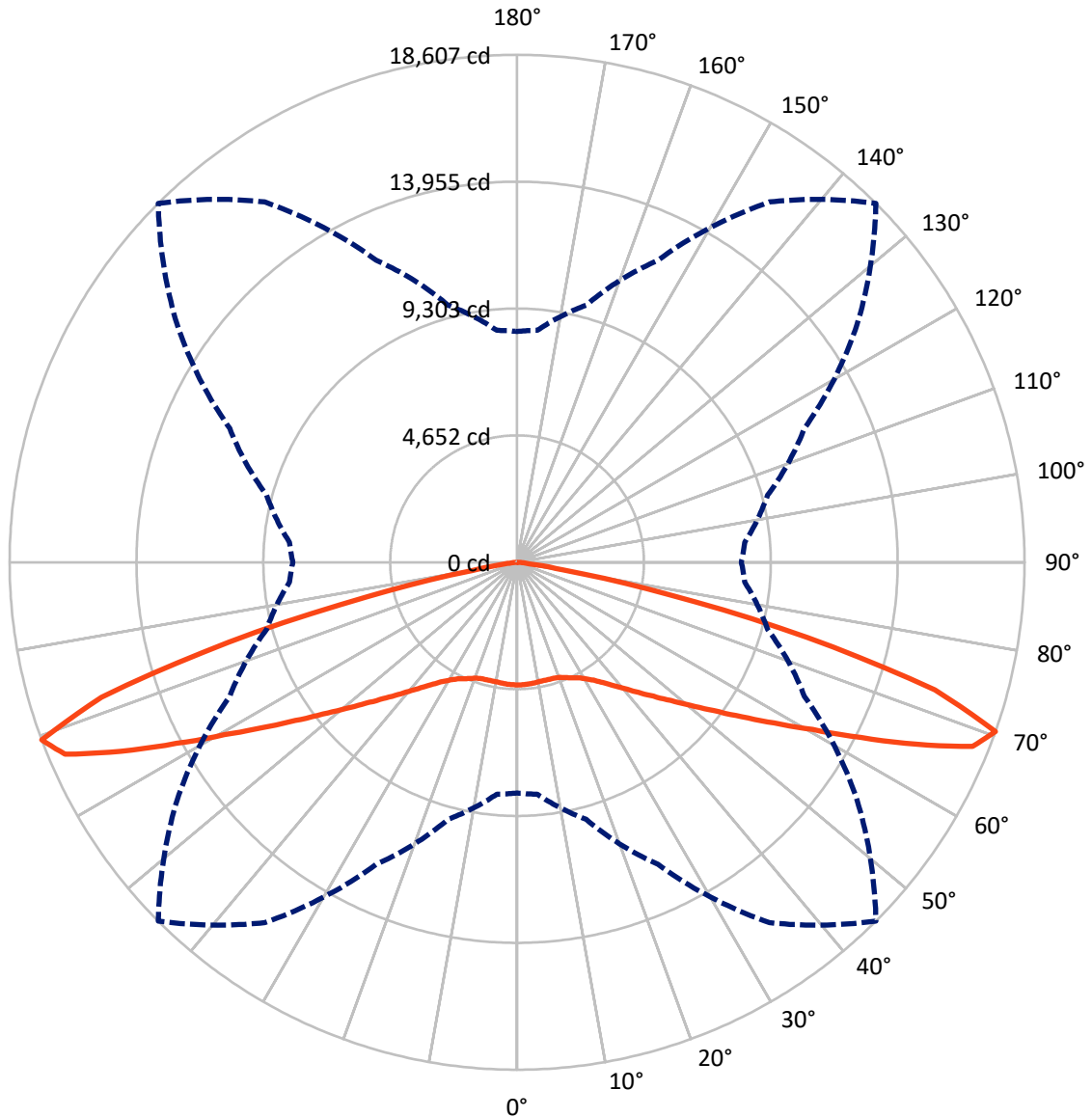
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P652535
CATALOG NUMBER: GALN-SA8B-840-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P652535
 CATALOG NUMBER: GALN-SA8B-840-U-5MQ

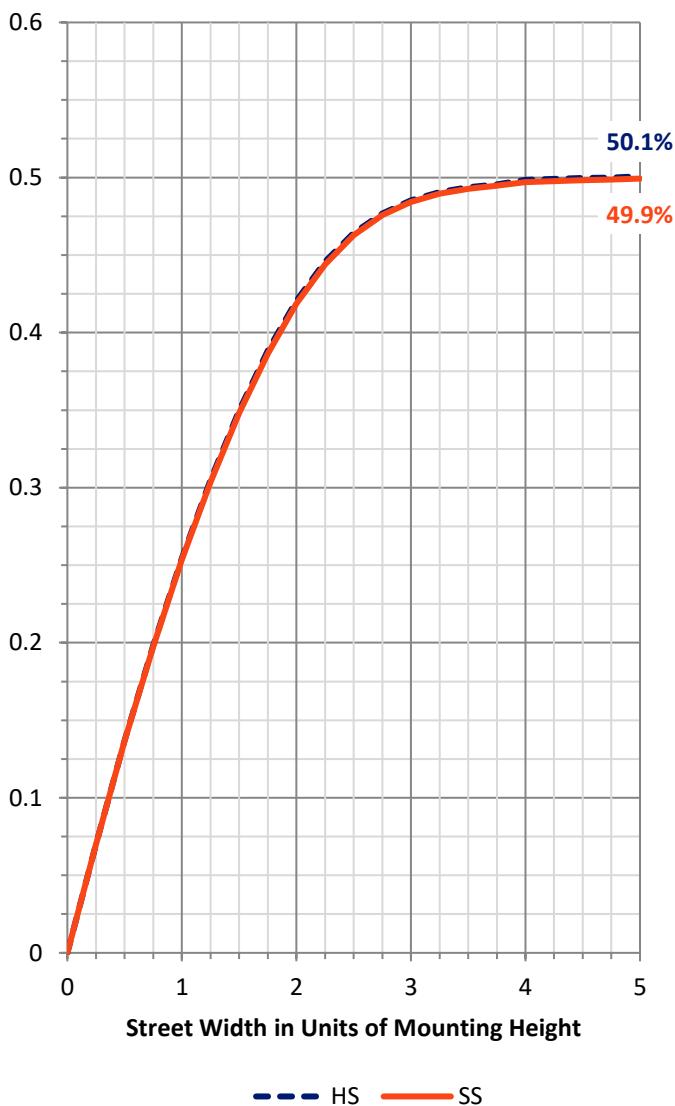
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20264.3	0.0	20264.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20264.3	0.0	20264.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	40528.6	0.0	40528.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.8	1.1
10°-20°	1252.4	3.1
20°-30°	2141.9	5.3
30°-40°	3399.6	8.4
40°-50°	5484.5	13.5
50°-60°	8923.5	22.0
60°-70°	12935.8	31.9
70°-80°	5737.9	14.2
80°-90°	226.3	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°	40528.6	100.0
0°-180°	40528.6	100.0

Coefficient of Utilization

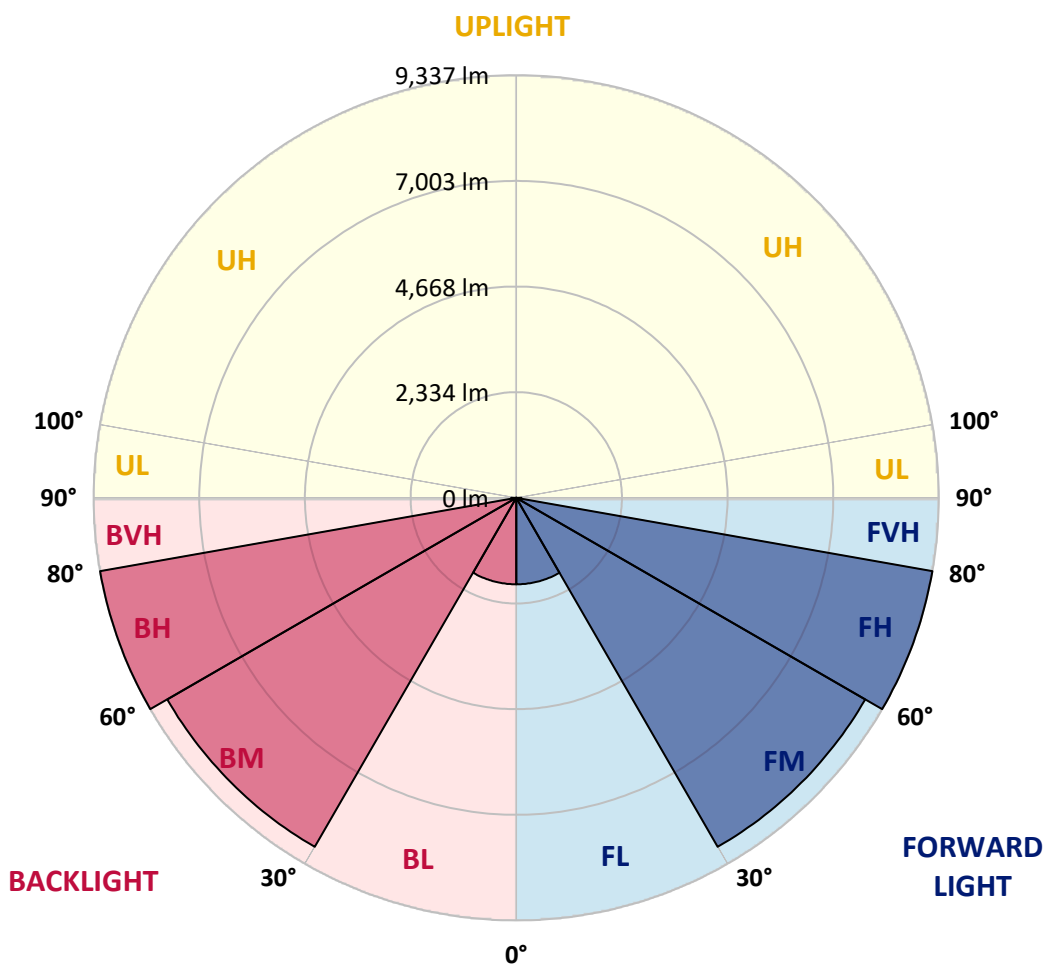


REPORT NUMBER: P652535
 CATALOG NUMBER: GALN-SA8B-840-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1910.5	4.7			
FM (30°-60°)	8903.8	22.0			
FH (60°-80°)	9336.8	23.0			G4/12000
FVH (80°-90°)	113.2	0.3			G2/225
BL (0°-30°)	1910.5	4.7	B3/2500		
BM (30°-60°)	8903.8	22.0	B5		
BH (60°-80°)	9336.8	23.0	B5		G4/12000
BVH (80°-90°)	113.2	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: P652535
 CATALOG NUMBER: GALN-SA8B-840-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5	4500.5
2.5°	4500.5	4504.8	4498.3	4494.1	4491.9	4491.9	4489.8	4491.9	4504.8	4506.9	4500.5
5°	4487.7	4491.9	4489.8	4485.6	4483.5	4483.5	4481.3	4479.2	4489.8	4494.1	4491.9
7.5°	4470.6	4472.8	4470.6	4468.5	4470.6	4468.5	4462.1	4457.8	4466.3	4466.3	4464.2
10°	4440.7	4444.9	4442.8	4444.9	4449.2	4449.2	4440.7	4432.2	4434.3	4430.1	4430.1
12.5°	4404.4	4410.8	4413.0	4421.5	4432.2	4444.9	4425.8	4406.5	4402.3	4400.1	4398.0
15°	4380.9	4387.3	4395.8	4404.4	4423.7	4451.4	4423.7	4393.7	4385.1	4376.6	4372.4
17.5°	4374.5	4383.0	4395.8	4408.7	4434.3	4462.1	4438.5	4408.7	4387.3	4374.5	4370.3
20°	4391.6	4398.0	4417.2	4440.7	4477.0	4504.8	4481.3	4449.2	4417.2	4398.0	4391.6
22.5°	4425.8	4436.4	4459.9	4502.6	4553.9	4594.5	4562.4	4509.0	4457.8	4432.2	4423.7
25°	4500.5	4509.0	4536.9	4594.5	4654.3	4692.8	4658.6	4596.7	4526.2	4491.9	4481.3
27.5°	4613.7	4626.5	4656.4	4724.8	4773.9	4795.3	4771.7	4729.0	4677.8	4641.5	4633.0
30°	4773.9	4788.9	4833.7	4906.3	4938.4	4951.2	4940.5	4912.8	4876.5	4838.0	4829.4
32.5°	4989.7	4998.2	5049.4	5117.8	5147.7	5152.0	5139.2	5126.3	5066.5	5002.4	4998.2
35°	5231.0	5246.0	5307.9	5389.0	5416.9	5419.0	5393.3	5374.2	5303.7	5252.4	5252.4
37.5°	5551.4	5557.8	5617.6	5709.5	5739.4	5730.8	5718.0	5701.0	5626.2	5559.9	5562.1
40°	5927.4	5940.2	5991.5	6098.3	6098.3	6087.6	6096.1	6083.3	6008.5	5944.4	5946.5
42.5°	6373.8	6380.2	6442.1	6555.3	6546.8	6525.4	6534.0	6516.9	6469.9	6397.2	6371.7
45°	6850.1	6875.8	6982.5	7091.5	7074.4	7006.0	7040.2	7035.9	6993.2	6884.3	6890.6
47.5°	7424.7	7467.4	7569.9	7700.2	7681.0	7574.2	7612.6	7638.3	7578.5	7458.8	7437.5
50°	8071.8	8099.7	8251.3	8373.1	8355.9	8242.7	8330.4	8334.6	8185.1	8016.3	8016.3
52.5°	8761.8	8789.5	8994.6	9184.7	9195.4	9030.9	9101.4	9097.2	8853.6	8631.5	8588.8
55°	9535.0	9547.9	9812.7	10092.5	10152.3	9992.1	10000.7	9915.2	9599.1	9340.7	9317.2
57.5°	10333.9	10380.9	10673.5	11036.6	11213.9	11115.7	11070.8	10842.3	10536.8	10239.9	10225.0
60°	11218.2	11220.3	11600.5	12029.8	12388.7	12454.9	12271.2	11965.7	11570.6	11177.6	11160.5
62.5°	11831.2	11923.0	12403.7	13129.9	13772.8	14144.4	13659.6	13018.8	12241.3	11606.9	11542.8
65°	11957.3	12019.2	12751.8	13982.1	15295.8	16096.7	14975.4	13612.6	12286.2	11440.3	11397.6
67.5°	10938.4	11004.6	11991.4	13879.6	16363.8	18006.3	15829.7	13326.4	11525.7	10479.1	10395.9
70°	8460.6	8535.4	9755.0	12217.8	16126.7	18606.5	15221.0	11624.0	9505.2	8375.2	8223.6
72.5°	4498.3	4773.9	5816.3	8385.9	13089.3	16019.9	12480.5	8482.0	6130.3	5011.0	4810.3
75°	1642.6	1676.8	2257.7	3718.7	7614.8	10985.4	7907.4	4045.5	2326.1	1796.4	1704.5
77.5°	679.3	677.1	743.4	1123.5	2766.1	5626.2	3086.5	1187.6	741.2	685.7	677.1
80°	401.6	401.6	442.1	467.8	728.4	1698.1	813.8	529.7	444.3	405.9	412.3
82.5°	179.4	190.1	279.8	294.8	352.5	465.7	393.0	337.5	290.5	200.7	181.6
85°	98.2	85.4	147.3	153.8	168.7	173.0	185.9	183.7	168.7	98.2	100.4
87.5°	19.3	23.5	42.7	32.0	36.3	32.0	42.7	59.8	62.0	34.1	27.8
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)