

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: P648575

Luminaire Tested: **GALN-SA8B-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648575
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-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 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: 37733.6 lumens
Efficiency: N/A
Efficacy: 116.1 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

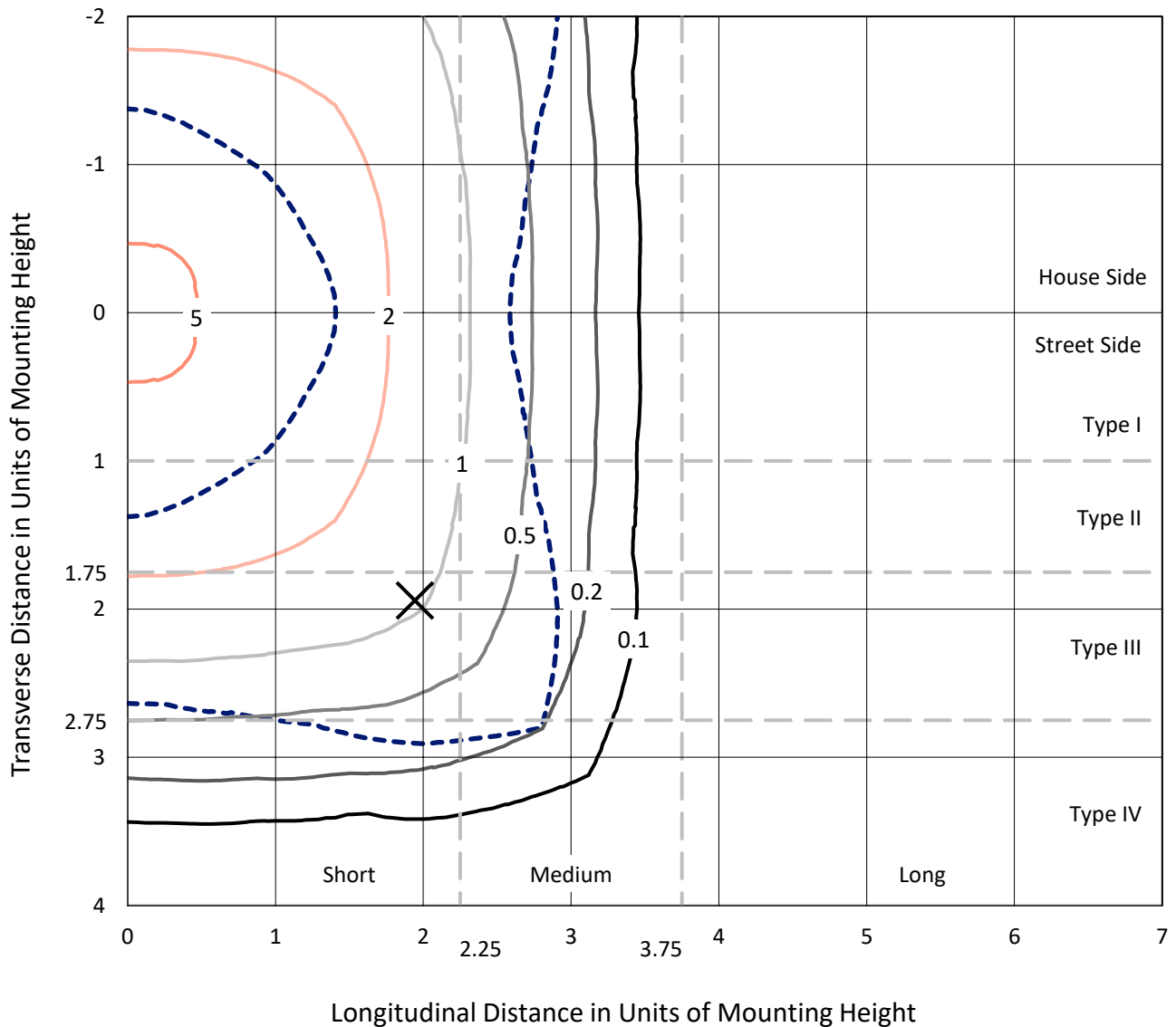
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

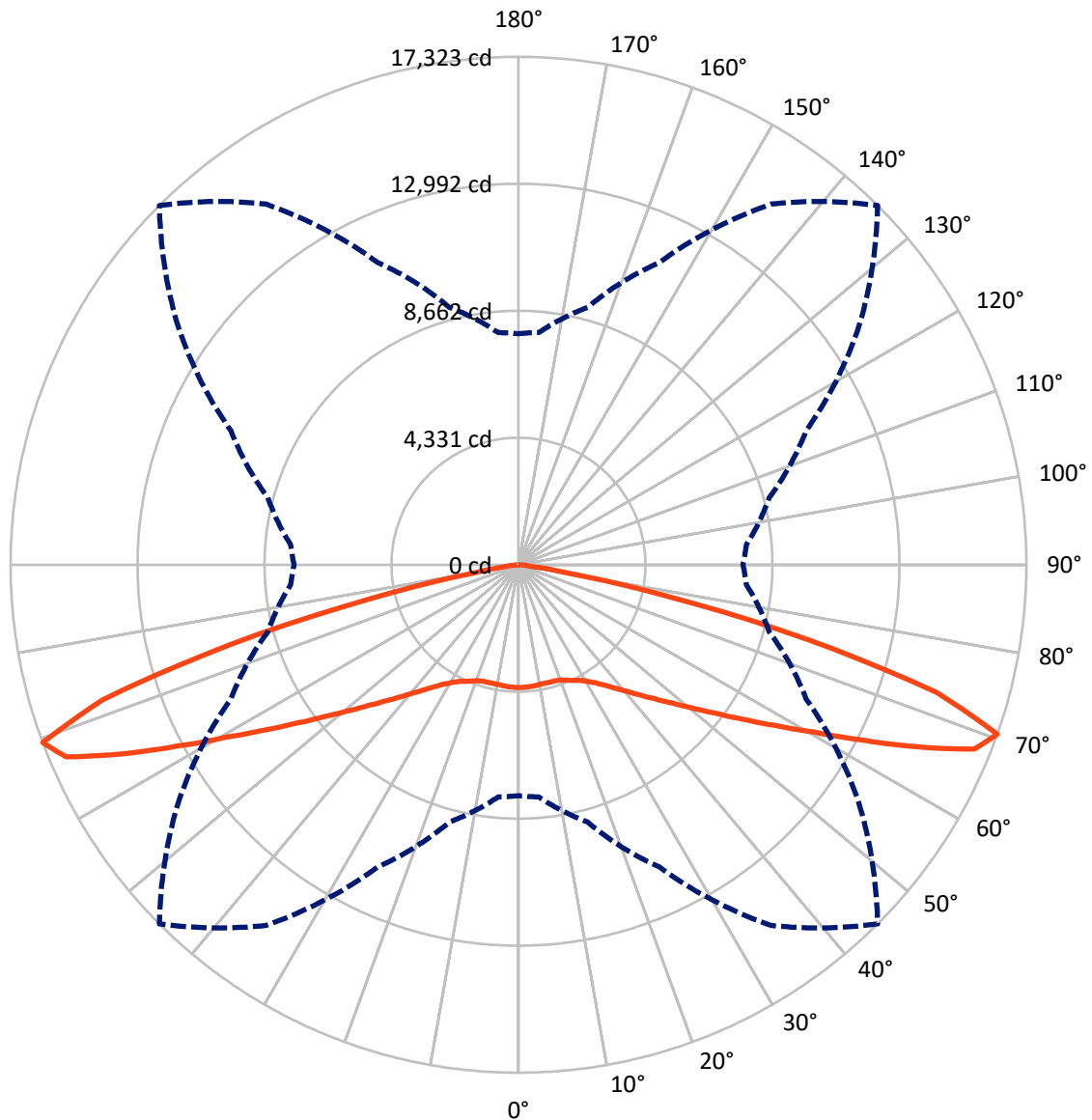
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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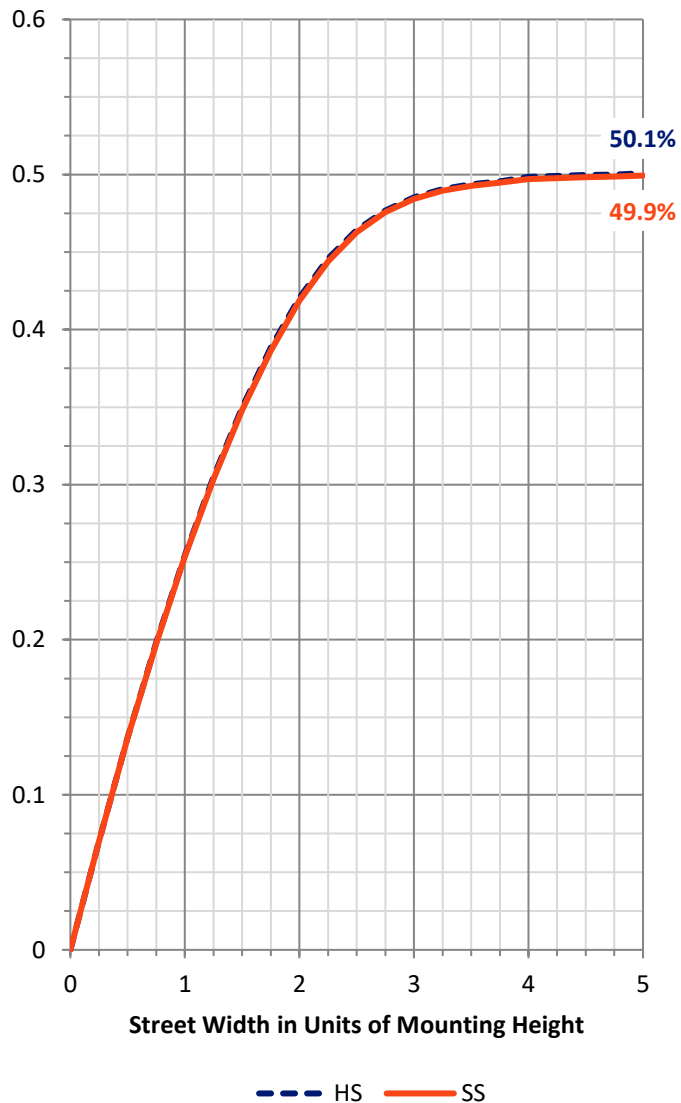
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18866.8	0.0	18866.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18866.8	0.0	18866.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	37733.6	0.0	37733.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.3	1.1
10°-20°	1166.0	3.1
20°-30°	1994.2	5.3
30°-40°	3165.2	8.4
40°-50°	5106.3	13.5
50°-60°	8308.0	22.0
60°-70°	12043.7	31.9
70°-80°	5342.2	14.2
80°-90°	210.7	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°	37733.6	100.0
0°-180°	37733.6	100.0

Coefficient of Utilization



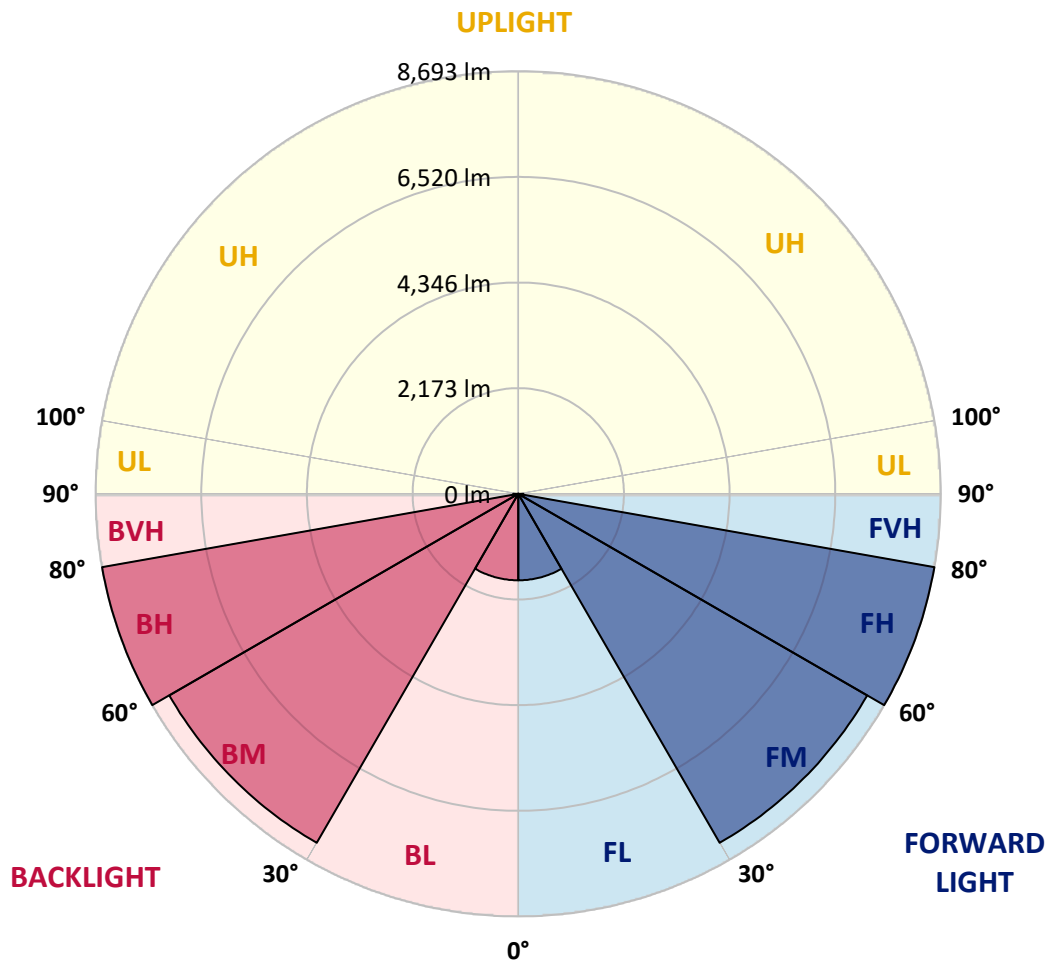
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1778.8	4.7			
FM (30°-60°)	8289.8	22.0			
FH (60°-80°)	8692.9	23.0			G4/12000
FVH (80°-90°)	105.3	0.3			G2/225
BL (0°-30°)	1778.8	4.7	B3/2500		
BM (30°-60°)	8289.8	22.0	B4/8500		
BH (60°-80°)	8692.9	23.0	B5		G4/12000
BVH (80°-90°)	105.3	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°	4190.1	4190.1	4190.1	4190.1	4190.1	4190.1	4190.1	4190.1	4190.1	4190.1	4190.1
2.5°	4190.1	4194.1	4188.1	4184.2	4182.2	4182.2	4180.2	4182.2	4194.1	4196.1	4190.1
5°	4178.2	4182.2	4180.2	4176.2	4174.3	4174.3	4172.2	4170.3	4180.2	4184.2	4182.2
7.5°	4162.3	4164.3	4162.3	4160.3	4162.3	4160.3	4154.4	4150.4	4158.3	4158.3	4156.3
10°	4134.5	4138.4	4136.4	4138.4	4142.4	4142.4	4134.5	4126.5	4128.4	4124.5	4124.5
12.5°	4100.6	4106.6	4108.6	4116.5	4126.5	4138.4	4120.5	4102.6	4098.7	4096.7	4094.7
15°	4078.8	4084.8	4092.7	4100.6	4118.6	4144.4	4118.6	4090.7	4082.7	4074.8	4070.8
17.5°	4072.8	4080.8	4092.7	4104.6	4128.4	4154.4	4132.4	4104.6	4084.8	4072.8	4068.9
20°	4088.7	4094.7	4112.6	4134.5	4168.2	4194.1	4172.2	4142.4	4112.6	4094.7	4088.7
22.5°	4120.5	4130.5	4152.3	4192.1	4239.9	4277.6	4247.8	4198.1	4150.4	4126.5	4118.6
25°	4190.1	4198.1	4224.0	4277.6	4333.3	4369.1	4337.3	4279.6	4214.0	4182.2	4172.2
27.5°	4295.5	4307.4	4335.3	4399.0	4444.7	4464.6	4442.7	4402.9	4355.2	4321.4	4313.5
30°	4444.7	4458.6	4500.4	4567.9	4597.8	4609.8	4599.8	4574.0	4540.1	4504.4	4496.4
32.5°	4645.5	4653.5	4701.2	4764.9	4792.7	4796.7	4784.8	4772.8	4717.1	4657.4	4653.5
35°	4870.3	4884.2	4941.8	5017.4	5043.3	5045.3	5021.4	5003.5	4937.9	4890.1	4890.1
37.5°	5168.6	5174.5	5230.2	5315.7	5343.6	5335.6	5323.7	5307.8	5238.2	5176.5	5178.5
40°	5518.6	5530.5	5578.2	5677.7	5677.7	5667.7	5675.7	5663.8	5594.1	5534.5	5536.4
42.5°	5934.2	5940.2	5997.9	6103.3	6095.3	6075.4	6083.4	6067.5	6023.7	5956.0	5932.2
45°	6377.7	6401.6	6500.9	6602.4	6586.5	6522.9	6554.6	6550.7	6510.9	6409.5	6415.4
47.5°	6912.6	6952.4	7047.9	7169.1	7151.3	7051.9	7087.6	7111.5	7055.8	6944.4	6924.5
50°	7515.2	7541.1	7682.2	7795.6	7779.7	7674.3	7755.8	7759.8	7620.6	7463.5	7463.5
52.5°	8157.5	8183.4	8374.3	8551.3	8561.2	8408.1	8473.7	8469.8	8243.0	8036.2	7996.5
55°	8877.4	8889.4	9136.0	9396.5	9452.1	9303.0	9311.0	9231.4	8937.1	8696.5	8674.6
57.5°	9621.2	9665.0	9937.4	10275.5	10440.5	10349.1	10307.3	10094.5	9810.1	9533.7	9519.8
60°	10444.5	10446.5	10800.5	11200.2	11534.3	11595.9	11424.9	11140.5	10772.7	10406.7	10390.8
62.5°	11015.2	11100.7	11548.2	12224.4	12823.0	13169.0	12717.6	12121.0	11397.1	10806.4	10746.8
65°	11132.6	11190.2	11872.4	13017.8	14240.9	14986.6	13942.6	12673.8	11438.8	10651.3	10611.5
67.5°	10184.0	10245.6	11164.4	12922.4	15235.2	16764.5	14738.0	12407.3	10730.9	9756.4	9678.9
70°	7877.1	7946.7	9082.3	11375.2	15014.5	17323.3	14171.3	10822.4	8849.6	7797.6	7656.4
72.5°	4188.1	4444.7	5415.1	7807.5	12186.6	14915.1	11619.8	7897.0	5707.5	4665.4	4478.5
75°	1529.3	1561.1	2102.0	3462.3	7089.6	10227.8	7362.1	3766.5	2165.7	1672.5	1587.0
77.5°	632.4	630.4	692.1	1046.0	2575.4	5238.2	2873.6	1105.7	690.1	638.4	630.4
80°	373.9	373.9	411.6	435.5	678.2	1581.0	757.7	493.2	413.7	377.9	383.8
82.5°	167.0	177.0	260.5	274.4	328.2	433.5	365.9	314.2	270.4	186.9	169.0
85°	91.5	79.6	137.2	143.2	157.1	161.1	173.0	171.0	157.1	91.5	93.5
87.5°	17.9	21.8	39.8	29.8	33.8	29.8	39.8	55.7	57.7	31.8	25.8
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)