

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: P647364

Luminaire Tested: **GALN-SA4D-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21150.4 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

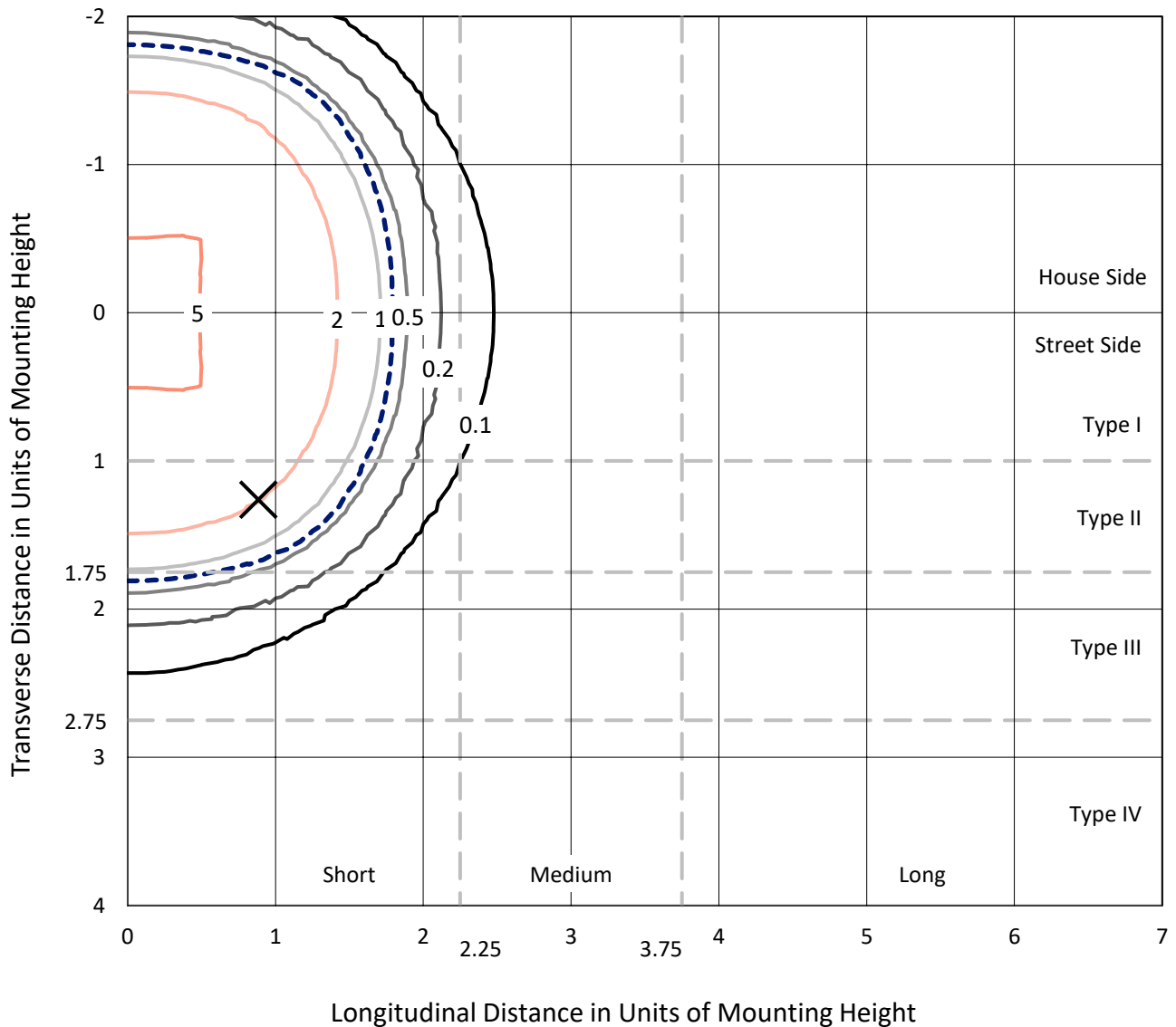
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647364
 CATALOG NUMBER: GALN-SA4D-835-U-5MQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

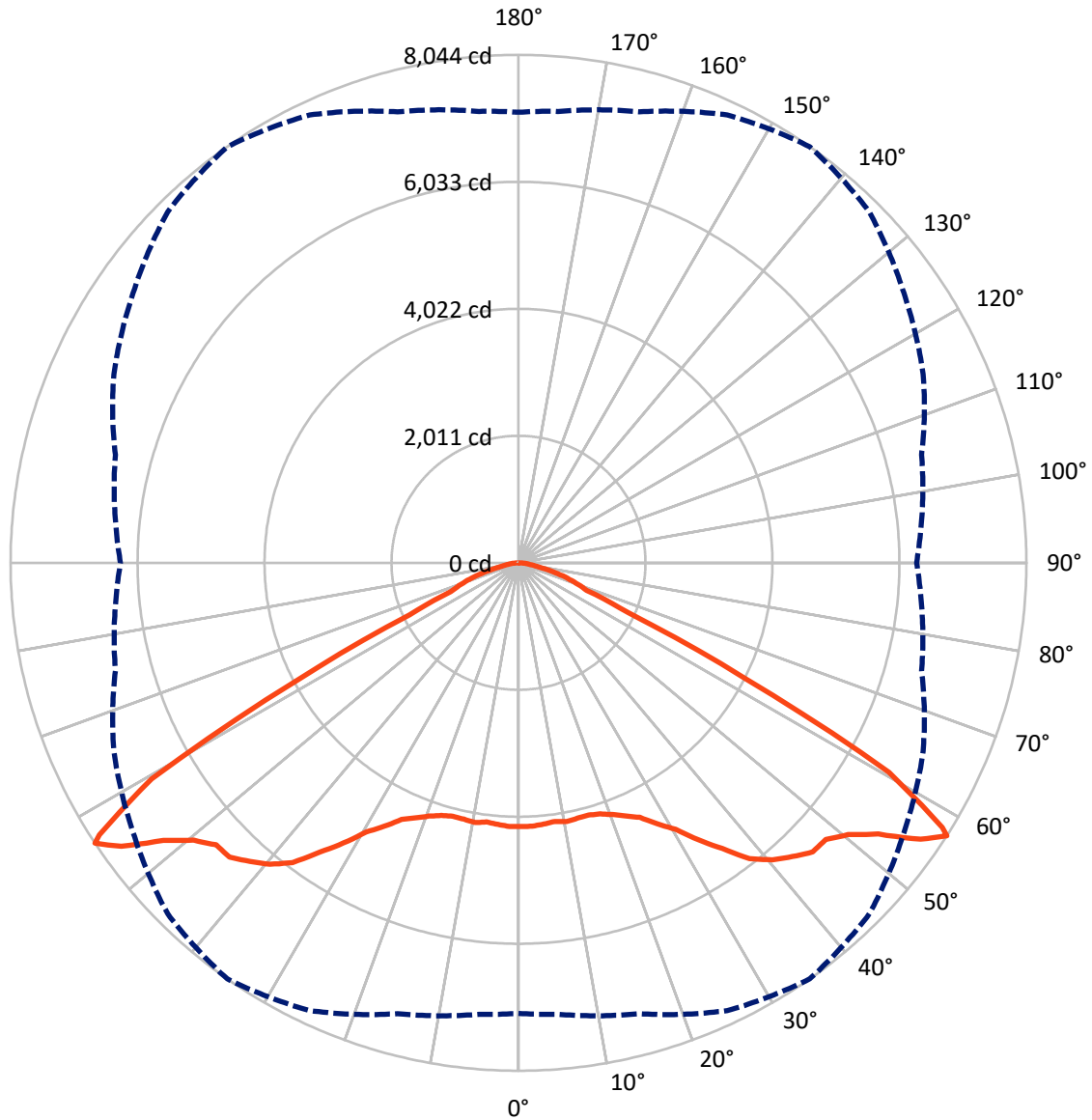
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

REPORT NUMBER: P647364
CATALOG NUMBER: GALN-SA4D-835-U-5MQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P647364
 CATALOG NUMBER: GALN-SA4D-835-U-5MQ-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10575.2	0.0	10575.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10575.2	0.0	10575.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	21150.4	0.0	21150.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.0	1.9
10°-20°	1172.8	5.5
20°-30°	2048.3	9.7
30°-40°	3356.3	15.9
40°-50°	4921.1	23.3
50°-60°	6198.5	29.3
60°-70°	2331.2	11.0
70°-80°	619.9	2.9
80°-90°	106.3	0.5
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°	21150.4	100.0
0°-180°	21150.4	100.0

Coefficient of Utilization



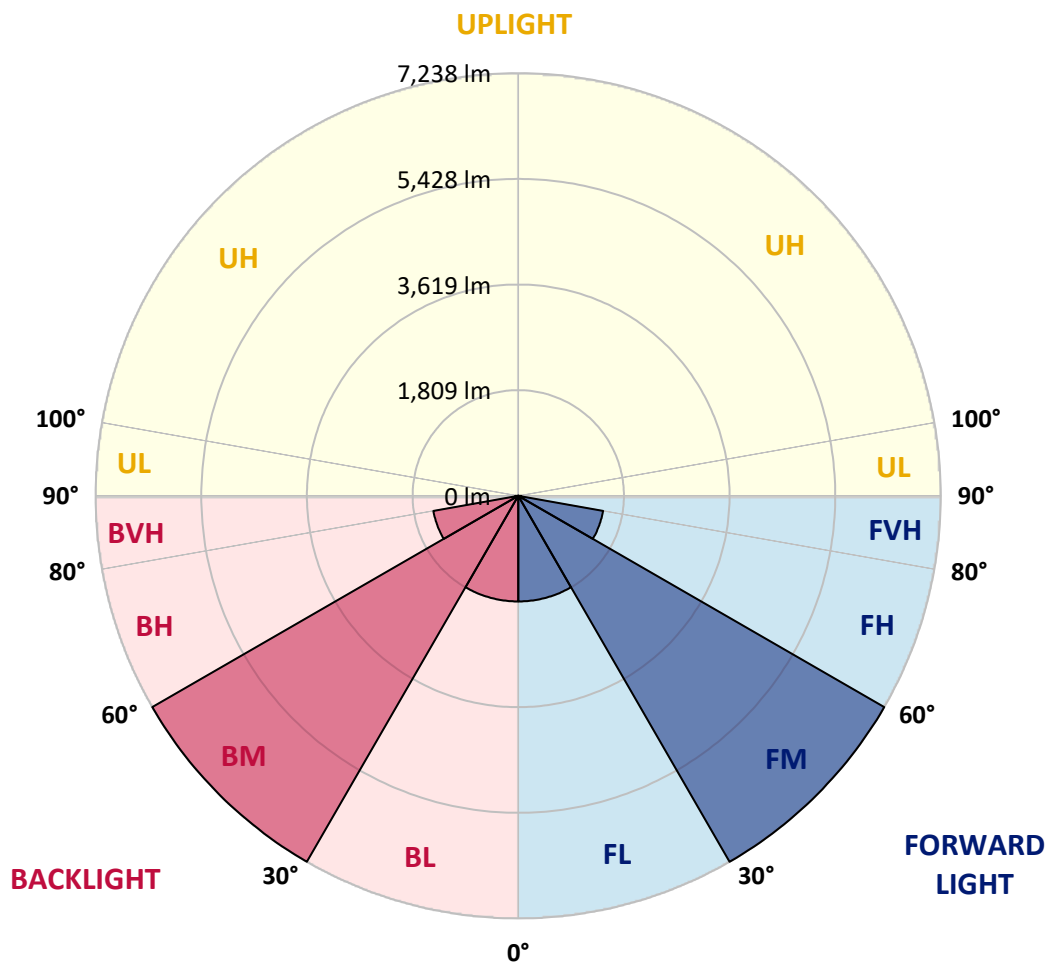
REPORT NUMBER: P647364
 CATALOG NUMBER: GALN-SA4D-835-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1808.6	8.6			
FM (30°-60°)	7237.9	34.2			
FH (60°-80°)	1475.5	7.0			G1/1800
FVH (80°-90°)	53.1	0.3			G1/100
BL (0°-30°)	1808.6	8.6	B3/2500		
BM (30°-60°)	7237.9	34.2	B4/8500		
BH (60°-80°)	1475.5	7.0	B3/2500		G1/1800
BVH (80°-90°)	53.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





REPORT NUMBER: P647364

CATALOG NUMBER: GALN-SA4D-835-U-5MQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4177.1	4177.1	4177.1	4177.1	4177.1	4177.1	4177.1	4177.1	4177.1	4177.1	4177.1
2.5°	4156.2	4197.9	4179.7	4169.2	4177.1	4164.0	4143.2	4166.7	4161.4	4140.6	4132.8
5°	4145.8	4177.1	4156.2	4177.1	4156.2	4192.7	4182.2	4143.2	4190.1	4145.8	4161.4
7.5°	4138.0	4148.4	4153.6	4143.2	4135.3	4179.7	4156.2	4138.0	4111.9	4104.1	4117.1
10°	4119.8	4145.8	4106.7	4158.8	4169.2	4138.0	4138.0	4104.1	4083.3	4070.2	4114.5
12.5°	4166.7	4122.3	4117.1	4143.2	4151.0	4164.0	4127.5	4109.3	4070.2	4075.4	4067.6
15°	4111.9	4130.2	4132.8	4138.0	4145.8	4177.1	4143.2	4104.1	4088.4	4033.7	4038.9
17.5°	4132.8	4114.5	4132.8	4192.7	4182.2	4205.7	4169.2	4109.3	4072.9	4041.5	4083.3
20°	4169.2	4161.4	4169.2	4242.2	4255.2	4276.0	4244.8	4190.1	4119.8	4083.3	4104.1
22.5°	4208.3	4203.1	4208.3	4278.7	4354.3	4380.3	4349.0	4221.3	4184.9	4117.1	4093.7
25°	4278.7	4283.9	4338.6	4416.7	4466.3	4515.8	4458.5	4367.3	4250.0	4208.3	4158.8
27.5°	4435.0	4448.1	4479.3	4593.9	4680.0	4724.2	4643.5	4518.4	4445.4	4359.4	4346.4
30°	4627.8	4627.8	4682.6	4781.6	4898.8	4966.6	4867.6	4719.1	4630.4	4583.5	4554.9
32.5°	4883.2	4854.5	4875.4	5050.0	5232.4	5289.7	5156.8	4974.4	4833.7	4771.1	4750.3
35°	5102.1	5120.4	5167.3	5354.9	5558.1	5691.0	5482.6	5245.4	5102.1	5044.8	5034.4
37.5°	5386.1	5417.4	5440.8	5698.8	5943.8	5993.2	5792.6	5602.4	5427.8	5380.9	5354.9
40°	5787.4	5766.6	5774.4	5964.6	6186.1	6217.3	6019.3	5883.9	5740.5	5711.8	5711.8
42.5°	6118.4	6094.9	6120.9	6191.3	6360.7	6337.2	6227.8	6128.8	6068.8	6037.6	6068.8
45°	6319.0	6313.8	6360.7	6412.8	6532.6	6454.5	6368.5	6384.1	6326.8	6274.7	6272.1
47.5°	6537.9	6504.0	6561.3	6639.5	6548.3	6511.8	6506.6	6540.5	6522.2	6431.0	6402.4
50°	6644.7	6631.7	6722.9	6814.1	6764.6	6681.2	6699.4	6754.2	6519.6	6397.2	6326.8
52.5°	6931.4	6933.9	7108.5	7158.0	7137.2	7014.7	7053.8	6905.3	6629.1	6457.1	6464.9
55°	7382.1	7363.9	7559.3	7705.3	7728.7	7572.4	7384.8	7176.3	6829.7	6655.1	6603.0
57°	7134.6	7176.3	7392.5	7825.1	8044.0	7859.0	7449.9	7069.5	6608.2	6397.2	6303.4
57.5°	6803.6	6871.5	7246.7	7681.8	7911.1	7895.5	7369.1	6871.5	6459.7	6131.4	6139.2
60°	4984.8	4997.9	5336.6	6027.1	6743.7	6759.3	6118.4	5459.1	5000.5	4643.5	4693.0
62.5°	2629.2	2689.1	2824.7	3379.7	3999.9	4151.0	3762.7	3424.0	3027.9	2756.9	2782.9
65°	1391.5	1383.6	1448.8	1605.2	1910.1	1988.2	1936.1	1667.7	1529.6	1485.3	1487.9
67.5°	1130.9	1144.0	1136.1	1144.0	1164.8	1198.6	1190.9	1201.3	1209.1	1222.1	1219.5
70°	958.9	958.9	964.1	966.8	966.8	982.4	1000.6	1034.5	1037.1	1050.2	1055.3
72.5°	755.7	750.4	758.3	776.5	779.2	792.2	818.2	839.1	846.9	846.9	831.2
75°	513.3	518.6	529.0	544.6	560.2	583.7	604.6	617.6	622.8	615.0	607.1
77.5°	289.2	294.5	302.2	325.7	344.0	364.8	388.3	401.3	414.3	416.9	401.3
80°	171.9	171.9	185.0	203.3	224.1	244.9	265.8	281.4	286.7	286.7	278.8
82.5°	104.2	106.8	117.3	135.5	153.7	166.8	185.0	198.0	208.4	205.9	200.7
85°	54.7	54.7	65.1	80.8	93.8	106.8	106.8	99.0	93.8	80.8	75.6
87.5°	18.2	15.7	20.8	20.8	18.2	20.8	20.8	23.5	23.5	23.5	23.5
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)