

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: P652369

Luminaire Tested: **GALN-SA5B-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652369
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-SA5B-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA 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: 21152.8 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

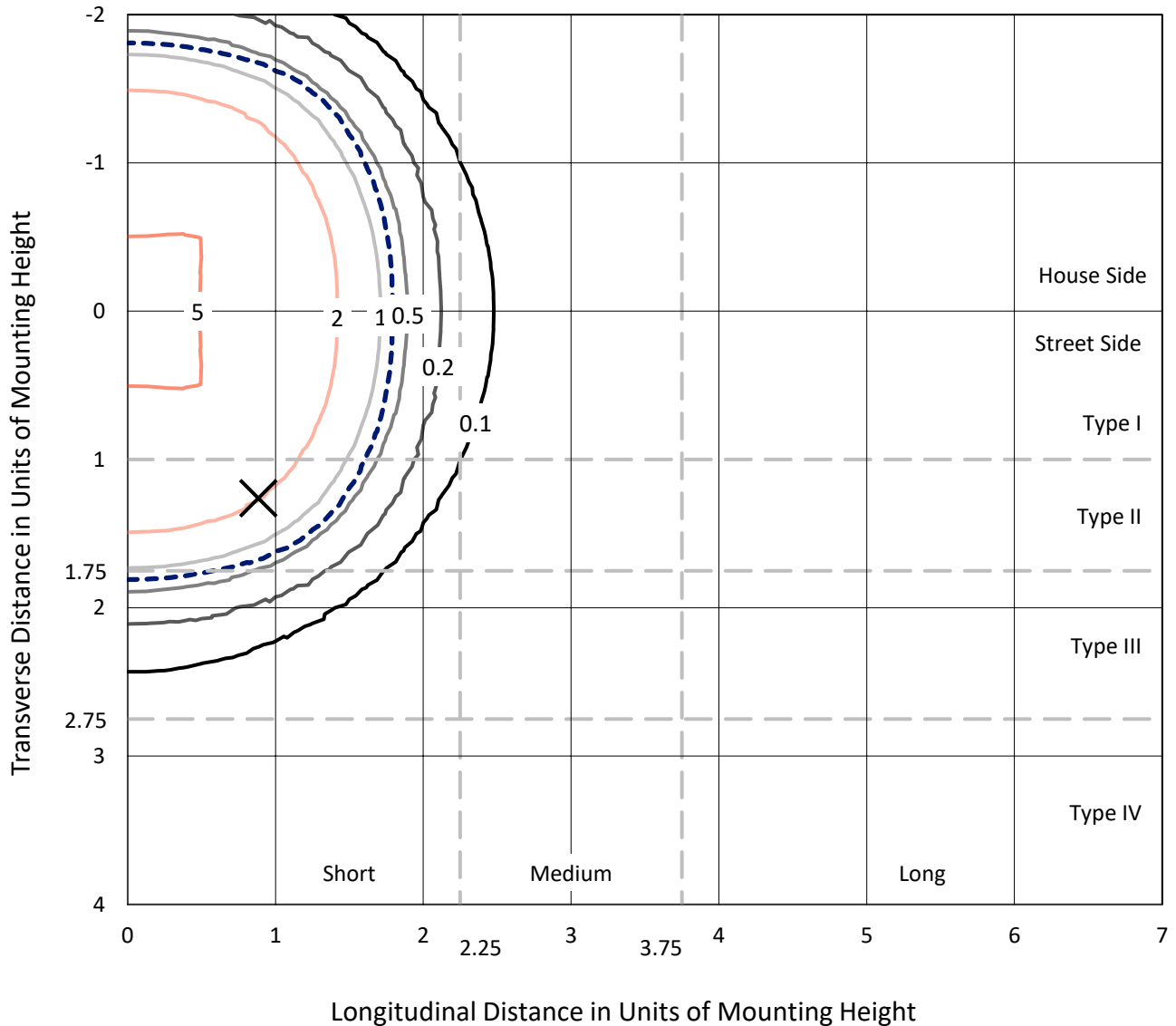
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

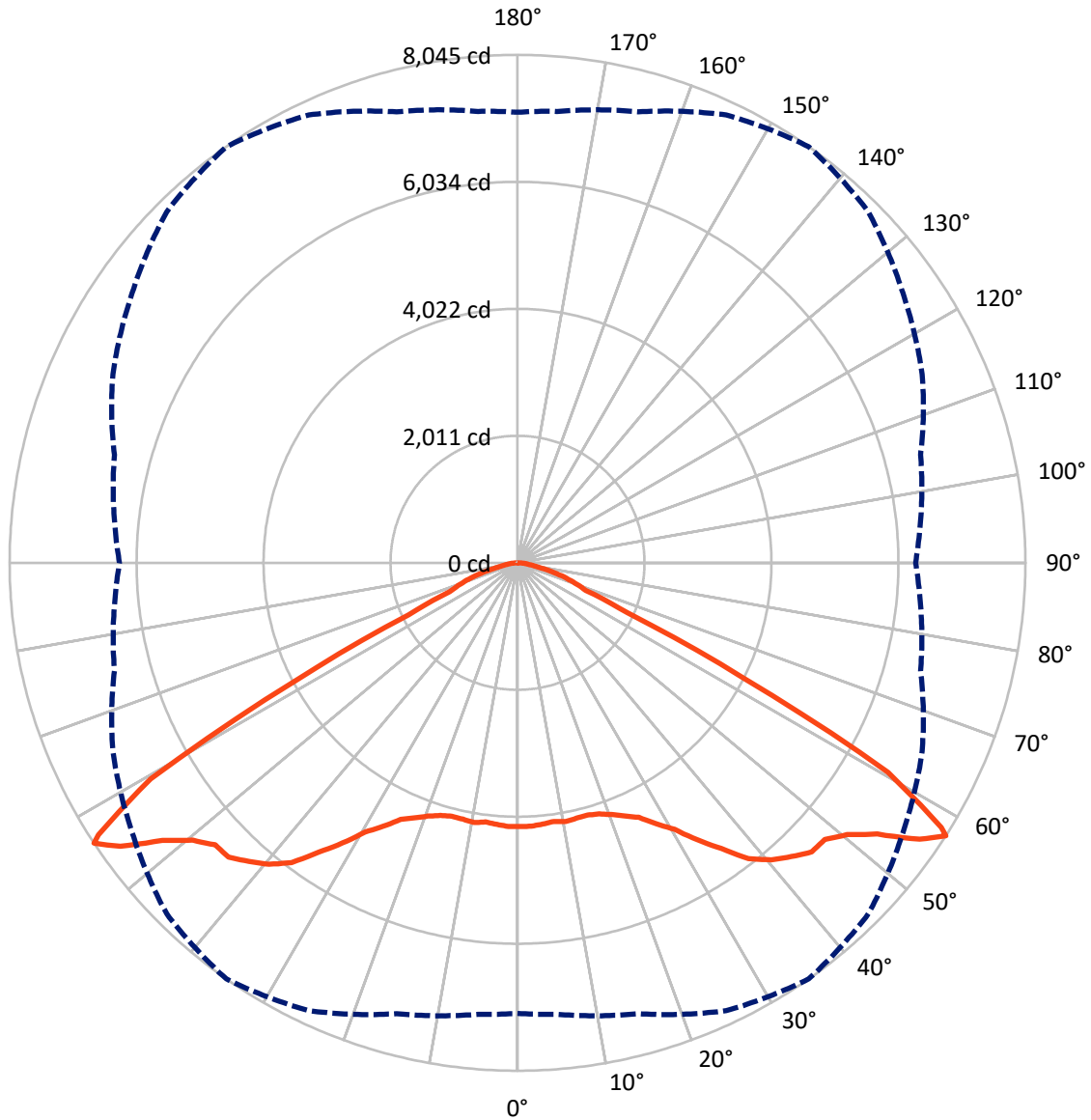
× Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10576.4	0.0	10576.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10576.4	0.0	10576.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	21152.8	0.0	21152.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.0	1.9
10°-20°	1173.0	5.5
20°-30°	2048.6	9.7
30°-40°	3356.7	15.9
40°-50°	4921.7	23.3
50°-60°	6199.2	29.3
60°-70°	2331.5	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°	21152.8	100.0
0°-180°	21152.8	100.0

Coefficient of Utilization

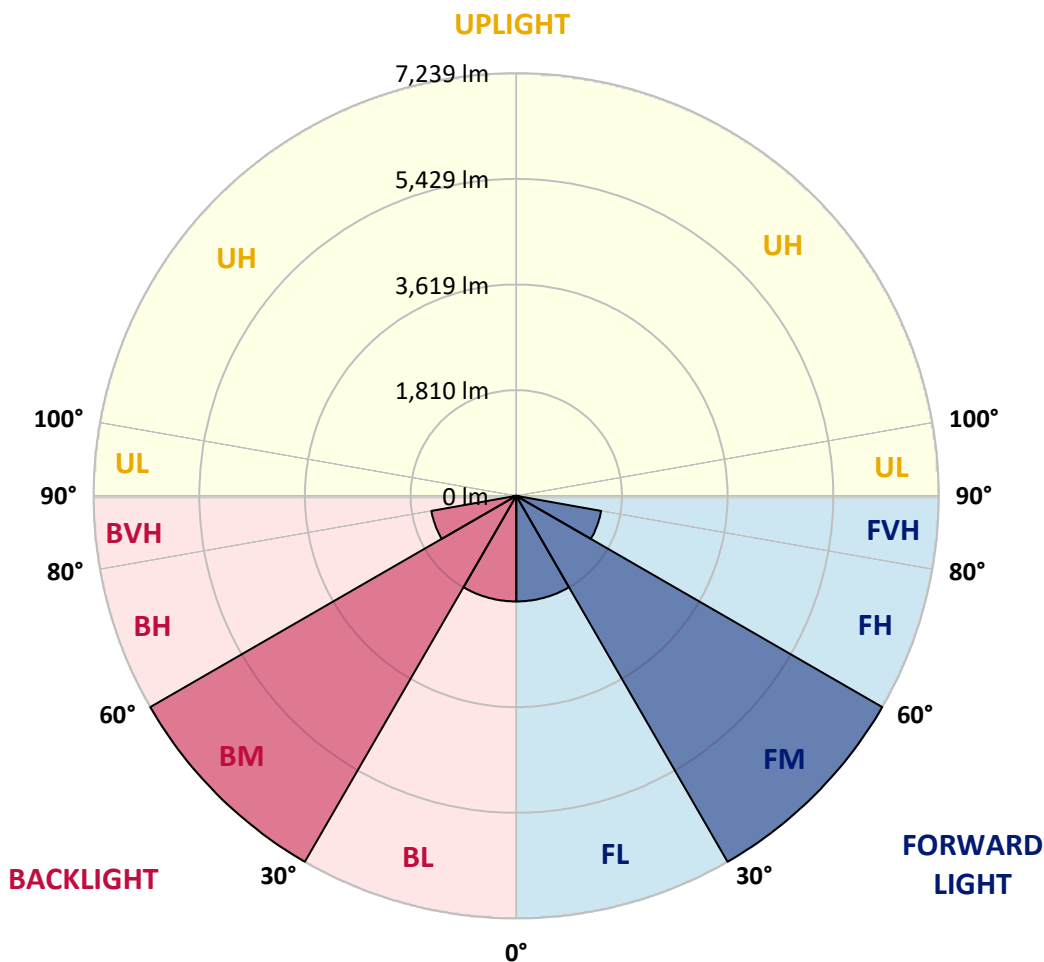


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1808.8	8.6			
FM (30°-60°)	7238.8	34.2			
FH (60°-80°)	1475.7	7.0			G1/1800
FVH (80°-90°)	53.2	0.3			G1/100
BL (0°-30°)	1808.8	8.6	B3/2500		
BM (30°-60°)	7238.8	34.2	B4/8500		
BH (60°-80°)	1475.7	7.0	B3/2500		G1/1800
BVH (80°-90°)	53.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4177.5	4177.5	4177.5	4177.5	4177.5	4177.5	4177.5	4177.5	4177.5	4177.5	4177.5
2.5°	4156.6	4198.4	4180.1	4169.7	4177.5	4164.5	4143.7	4167.1	4161.9	4141.1	4133.3
5°	4146.2	4177.5	4156.6	4177.5	4156.6	4193.1	4182.7	4143.7	4190.5	4146.2	4161.9
7.5°	4138.5	4148.8	4154.0	4143.7	4135.9	4180.1	4156.6	4138.5	4112.4	4104.6	4117.6
10°	4120.2	4146.2	4107.2	4159.2	4169.7	4138.5	4138.5	4104.6	4083.7	4070.7	4115.0
12.5°	4167.1	4122.8	4117.6	4143.7	4151.4	4164.5	4128.0	4109.8	4070.7	4075.9	4068.1
15°	4112.4	4130.7	4133.3	4138.5	4146.2	4177.5	4143.7	4104.6	4088.9	4034.2	4039.4
17.5°	4133.3	4115.0	4133.3	4193.1	4182.7	4206.2	4169.7	4109.8	4073.3	4042.0	4083.7
20°	4169.7	4161.9	4169.7	4242.7	4255.7	4276.6	4245.3	4190.5	4120.2	4083.7	4104.6
22.5°	4208.8	4203.6	4208.8	4279.2	4354.8	4380.8	4349.6	4221.8	4185.3	4117.6	4094.2
25°	4279.2	4284.4	4339.1	4417.3	4466.8	4516.3	4459.0	4367.7	4250.5	4208.8	4159.2
27.5°	4435.5	4448.6	4479.8	4594.5	4680.5	4724.8	4644.0	4518.9	4445.9	4359.9	4347.0
30°	4628.4	4628.4	4683.1	4782.2	4899.4	4967.2	4868.1	4719.6	4631.0	4584.0	4555.4
32.5°	4883.8	4855.1	4875.9	5050.5	5233.0	5290.3	5157.4	4975.0	4834.2	4771.7	4750.9
35°	5102.7	5120.9	5167.9	5355.5	5558.8	5691.6	5483.2	5246.0	5102.7	5045.3	5034.9
37.5°	5386.8	5418.1	5441.4	5699.5	5944.4	5994.0	5793.3	5603.1	5428.4	5381.6	5355.5
40°	5788.1	5767.2	5775.1	5965.3	6186.8	6218.1	6020.0	5884.5	5741.2	5712.5	5712.5
42.5°	6119.0	6095.6	6121.6	6192.0	6361.4	6337.9	6228.5	6129.5	6069.5	6038.3	6069.5
45°	6319.7	6314.5	6361.4	6413.6	6533.4	6455.3	6369.2	6384.9	6327.5	6275.4	6272.8
47.5°	6538.6	6504.7	6562.1	6640.3	6549.0	6512.5	6507.3	6541.2	6523.0	6431.8	6403.1
50°	6645.5	6632.5	6723.6	6814.9	6765.3	6682.0	6700.2	6754.9	6520.4	6397.9	6327.5
52.5°	6932.1	6934.7	7109.4	7158.8	7138.0	7015.5	7054.6	6906.1	6629.9	6457.9	6465.7
55°	7383.0	7364.7	7560.2	7706.2	7729.6	7573.2	7385.6	7177.1	6830.5	6655.9	6603.8
57°	7135.4	7177.1	7393.4	7826.0	8044.9	7859.9	7450.8	7070.3	6609.0	6397.9	6304.1
57.5°	6804.4	6872.2	7247.5	7682.7	7912.0	7896.4	7369.9	6872.2	6460.5	6132.1	6139.9
60°	4985.4	4998.4	5337.2	6027.9	6744.5	6760.1	6119.0	5459.7	5001.0	4644.0	4693.5
62.5°	2629.6	2689.4	2825.0	3380.1	4000.3	4151.4	3763.1	3424.4	3028.3	2757.2	2783.3
65°	1391.6	1383.8	1449.0	1605.3	1910.2	1988.5	1936.3	1667.9	1529.8	1485.5	1488.1
67.5°	1131.1	1144.1	1136.3	1144.1	1165.0	1198.8	1190.9	1201.4	1209.2	1222.2	1219.6
70°	959.0	959.0	964.2	966.8	966.8	982.5	1000.7	1034.6	1037.2	1050.2	1055.5
72.5°	755.7	750.5	758.3	776.6	779.2	792.2	818.3	839.1	847.0	847.0	831.3
75°	513.4	518.6	529.1	544.6	560.3	583.7	604.6	617.6	622.8	615.0	607.2
77.5°	289.3	294.5	302.3	325.7	344.0	364.8	388.3	401.3	414.4	417.0	401.3
80°	172.0	172.0	185.0	203.3	224.1	245.0	265.8	281.5	286.7	286.7	278.9
82.5°	104.3	106.8	117.2	135.5	153.7	166.8	185.0	198.1	208.5	205.9	200.7
85°	54.7	54.7	65.2	80.8	93.9	106.8	106.8	99.1	93.9	80.8	75.6
87.5°	18.2	15.6	20.9	20.9	18.2	20.9	20.9	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)