

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: P648024

Luminaire Tested: **GALN-SA7A-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648024
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-SA7A-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA 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: 22014 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

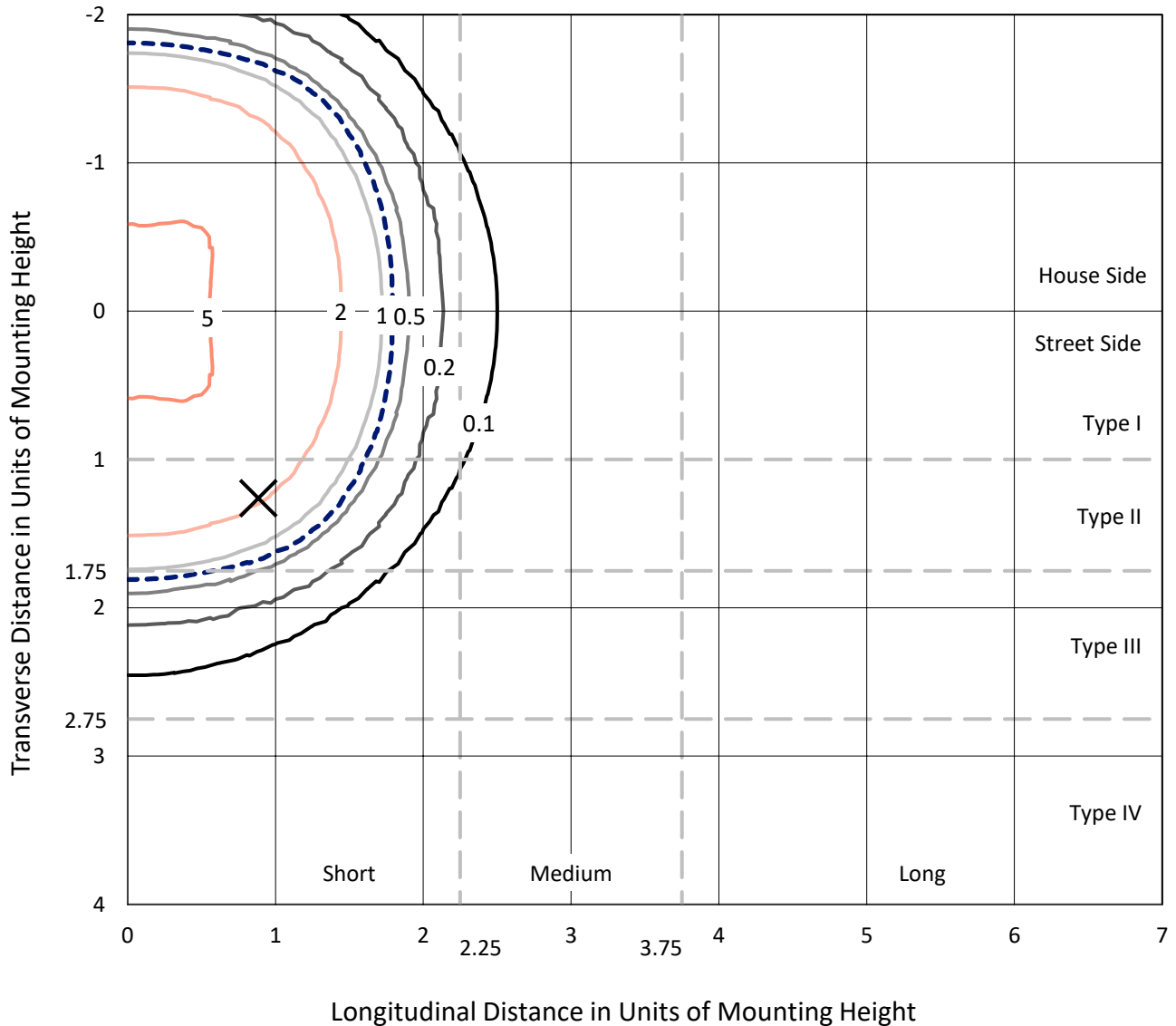
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

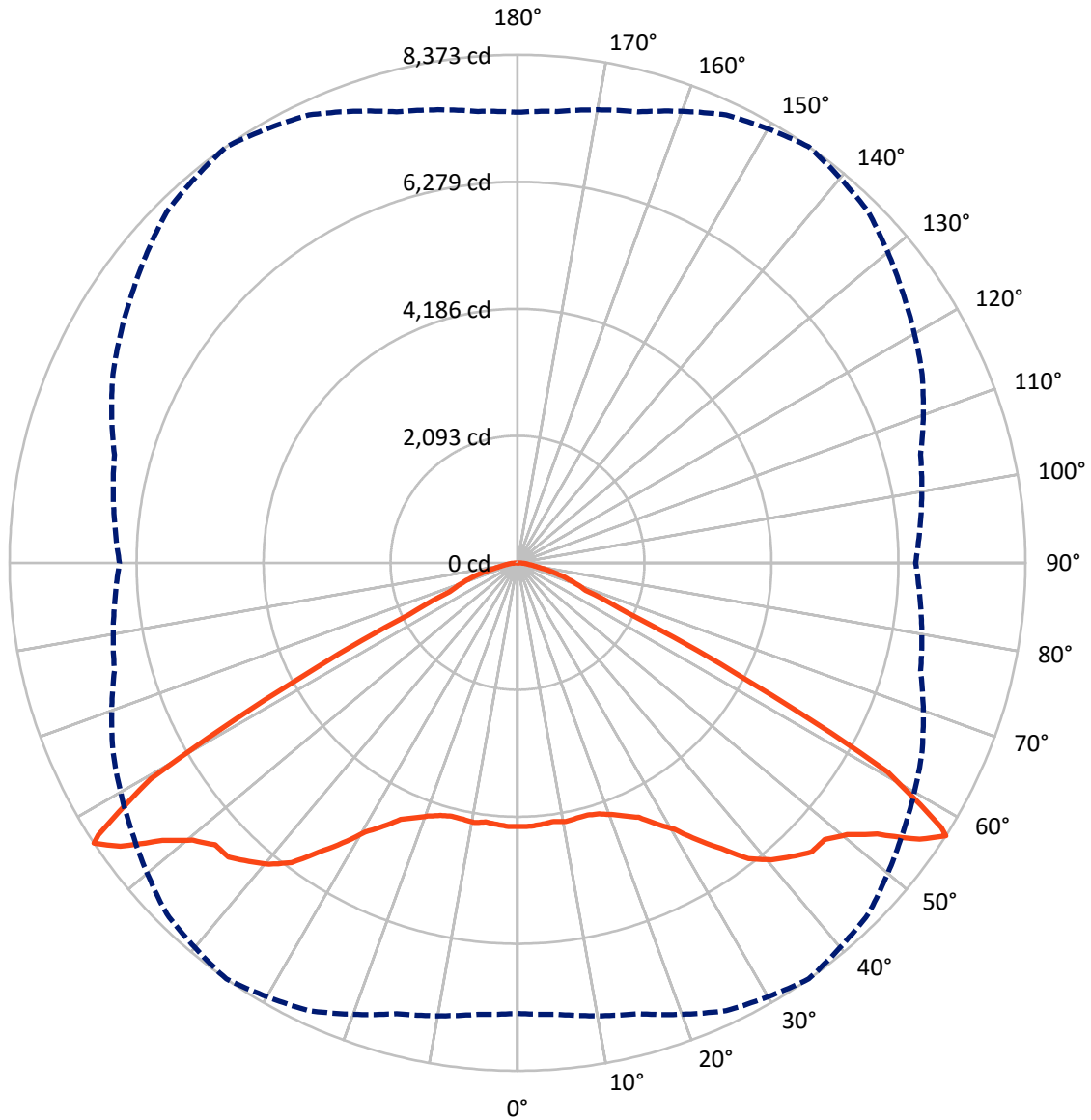
× Max cd
 - - - 1/2 Max cd



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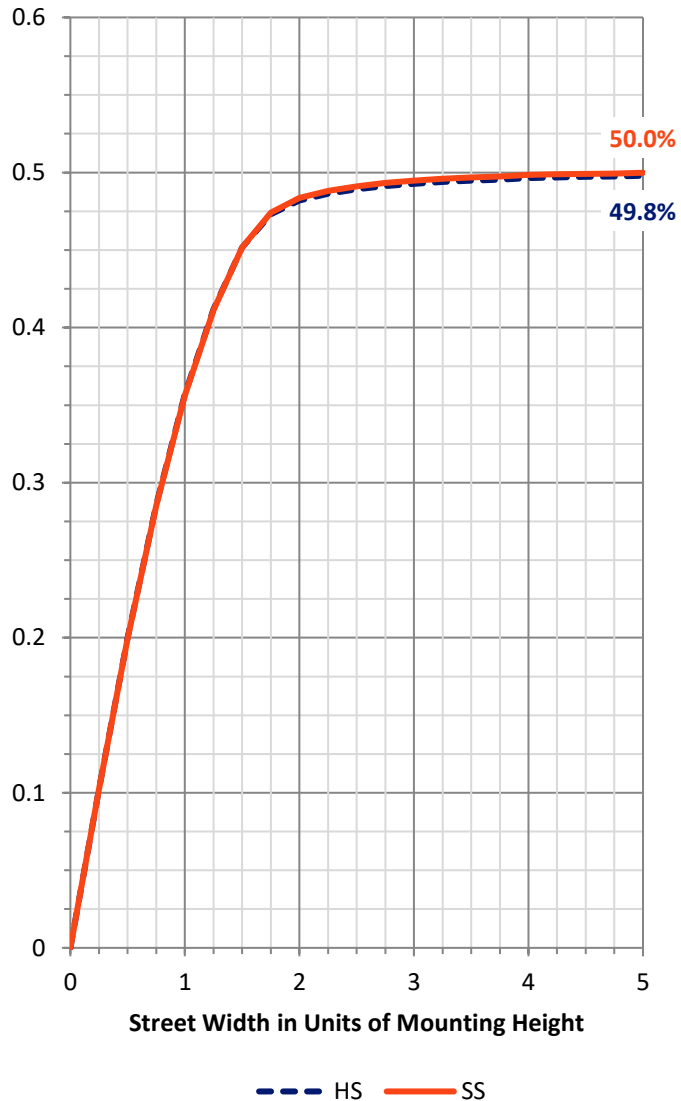
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11007.0	0.0	11007.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11007.0	0.0	11007.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22014.0	0.0	22014.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.2	1.9
10°-20°	1220.7	5.5
20°-30°	2132.0	9.7
30°-40°	3493.3	15.9
40°-50°	5122.1	23.3
50°-60°	6451.6	29.3
60°-70°	2426.4	11.0
70°-80°	645.2	2.9
80°-90°	110.6	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°	22014.0	100.0
0°-180°	22014.0	100.0

Coefficient of Utilization



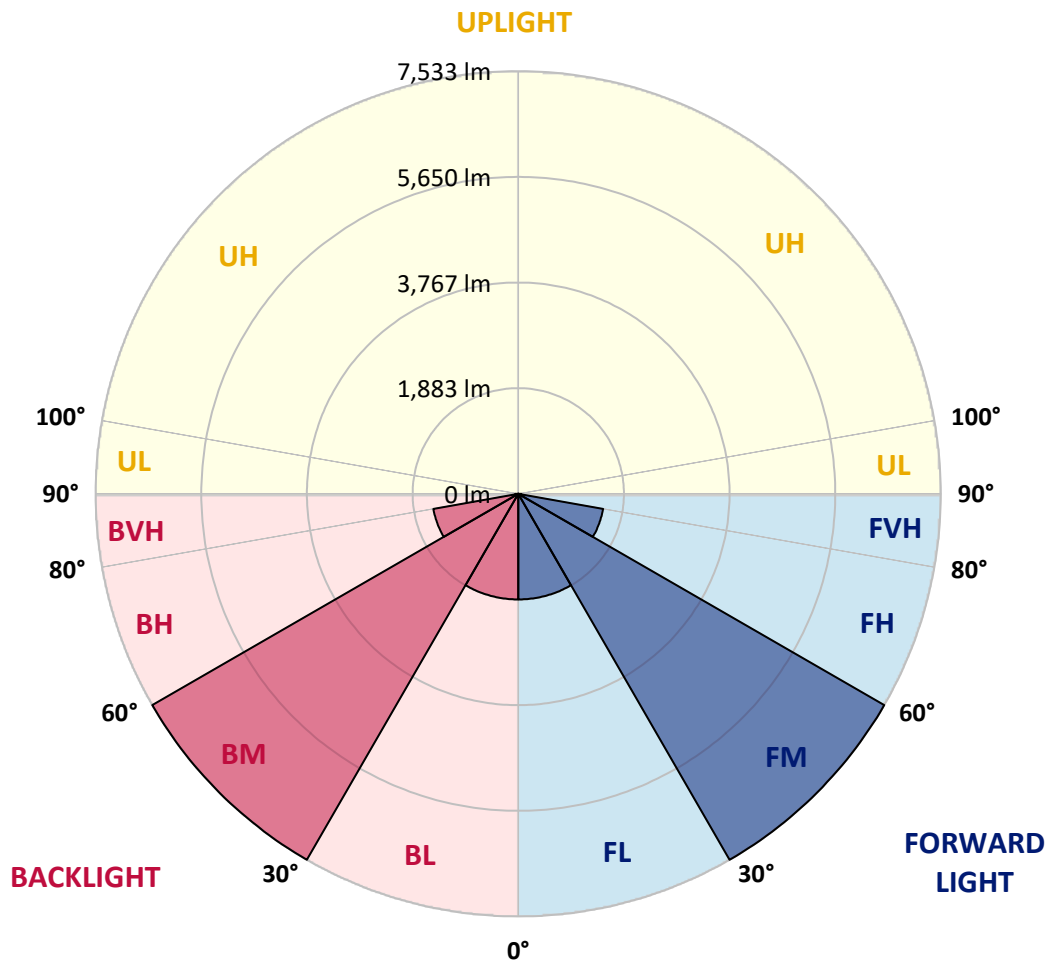
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1882.4	8.6			
FM (30°-60°)	7533.5	34.2			
FH (60°-80°)	1535.8	7.0			G1/1800
FVH (80°-90°)	55.3	0.3			G1/100
BL (0°-30°)	1882.4	8.6	B3/2500		
BM (30°-60°)	7533.5	34.2	B4/8500		
BH (60°-80°)	1535.8	7.0	B3/2500		G1/1800
BVH (80°-90°)	55.3	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°	4347.6	4347.6	4347.6	4347.6	4347.6	4347.6	4347.6	4347.6	4347.6	4347.6	4347.6
2.5°	4325.9	4369.3	4350.3	4339.5	4347.6	4334.1	4312.4	4336.8	4331.3	4309.6	4301.5
5°	4315.0	4347.6	4325.9	4347.6	4325.9	4363.9	4353.0	4312.4	4361.2	4315.0	4331.3
7.5°	4306.9	4317.8	4323.2	4312.4	4304.2	4350.3	4325.9	4306.9	4279.8	4271.7	4285.2
10°	4287.9	4315.0	4274.4	4328.7	4339.5	4306.9	4306.9	4271.7	4250.0	4236.4	4282.5
12.5°	4336.8	4290.7	4285.2	4312.4	4320.5	4334.1	4296.1	4277.1	4236.4	4241.8	4233.7
15°	4279.8	4298.8	4301.5	4306.9	4315.0	4347.6	4312.4	4271.7	4255.4	4198.4	4203.8
17.5°	4301.5	4282.5	4301.5	4363.9	4353.0	4377.4	4339.5	4277.1	4239.2	4206.6	4250.0
20°	4339.5	4331.3	4339.5	4415.4	4429.0	4450.7	4418.2	4361.2	4287.9	4250.0	4271.7
22.5°	4380.2	4374.7	4380.2	4453.4	4532.0	4559.2	4526.6	4393.7	4355.8	4285.2	4260.9
25°	4453.4	4458.8	4515.8	4597.1	4648.7	4700.2	4640.5	4545.6	4423.6	4380.2	4328.7
27.5°	4616.1	4629.6	4662.2	4781.5	4871.0	4917.2	4833.1	4702.9	4627.0	4537.5	4523.9
30°	4816.8	4816.8	4873.8	4976.8	5098.9	5169.4	5066.3	4911.8	4819.5	4770.7	4740.9
32.5°	5082.6	5052.8	5074.5	5256.2	5446.1	5505.7	5367.4	5177.5	5031.1	4966.0	4944.3
35°	5310.5	5329.4	5378.3	5573.6	5785.0	5923.4	5706.4	5459.6	5310.5	5250.8	5239.9
37.5°	5606.0	5638.6	5663.0	5931.5	6186.5	6238.0	6029.2	5831.2	5649.4	5600.6	5573.6
40°	6023.7	6002.0	6010.2	6208.2	6438.7	6471.3	6265.1	6124.1	5974.9	5945.1	5945.1
42.5°	6368.2	6343.8	6370.9	6444.1	6620.4	6596.0	6482.1	6379.0	6316.6	6284.1	6316.6
45°	6577.0	6571.6	6620.4	6674.7	6799.4	6718.1	6628.6	6644.9	6585.2	6530.9	6528.2
47.5°	6804.8	6769.6	6829.2	6910.6	6815.7	6777.7	6772.3	6807.6	6788.5	6693.6	6663.8
50°	6916.0	6902.5	6997.4	7092.3	7040.8	6954.0	6973.0	7029.9	6785.9	6658.4	6585.2
52.5°	7214.4	7217.1	7398.8	7450.3	7428.6	7301.2	7341.9	7187.2	6899.8	6720.7	6728.9
55°	7683.6	7664.6	7868.0	8019.9	8044.3	7881.6	7686.3	7469.4	7108.6	6926.9	6872.6
57°	7425.9	7469.4	7694.5	8144.7	8372.5	8179.9	7754.1	7358.1	6878.1	6658.4	6560.8
57.5°	7081.5	7152.0	7542.6	7995.4	8234.2	8217.9	7670.0	7152.0	6723.5	6381.8	6389.9
60°	5188.4	5201.9	5554.5	6273.2	7019.1	7035.4	6368.2	5682.0	5204.7	4833.1	4884.6
62.5°	2736.6	2799.0	2940.0	3517.7	4163.2	4320.5	3916.4	3563.8	3151.6	2869.5	2896.6
65°	1448.3	1440.2	1508.0	1670.7	1988.0	2069.4	2015.1	1735.8	1592.1	1546.0	1548.6
67.5°	1177.1	1190.6	1182.5	1190.6	1212.3	1247.6	1239.5	1250.3	1258.4	1272.0	1269.3
70°	998.1	998.1	1003.5	1006.2	1006.2	1022.5	1041.5	1076.7	1079.4	1093.0	1098.4
72.5°	786.5	781.1	789.3	808.2	811.0	824.5	851.6	873.4	881.4	881.4	865.2
75°	534.3	539.7	550.6	566.8	583.1	607.5	629.2	642.8	648.2	640.1	632.0
77.5°	301.1	306.5	314.6	339.0	358.0	379.7	404.1	417.7	431.2	433.9	417.7
80°	179.0	179.0	192.5	211.6	233.3	254.9	276.6	292.9	298.3	298.3	290.2
82.5°	108.5	111.2	122.1	141.0	160.0	173.6	192.5	206.2	217.0	214.2	208.8
85°	56.9	56.9	67.8	84.1	97.6	111.2	111.2	103.0	97.6	84.1	78.7
87.5°	18.9	16.3	21.7	21.7	18.9	21.7	21.7	24.4	24.4	24.4	24.4
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)