

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: P651549

Luminaire Tested: **GALN-SA8D-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27403.2 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

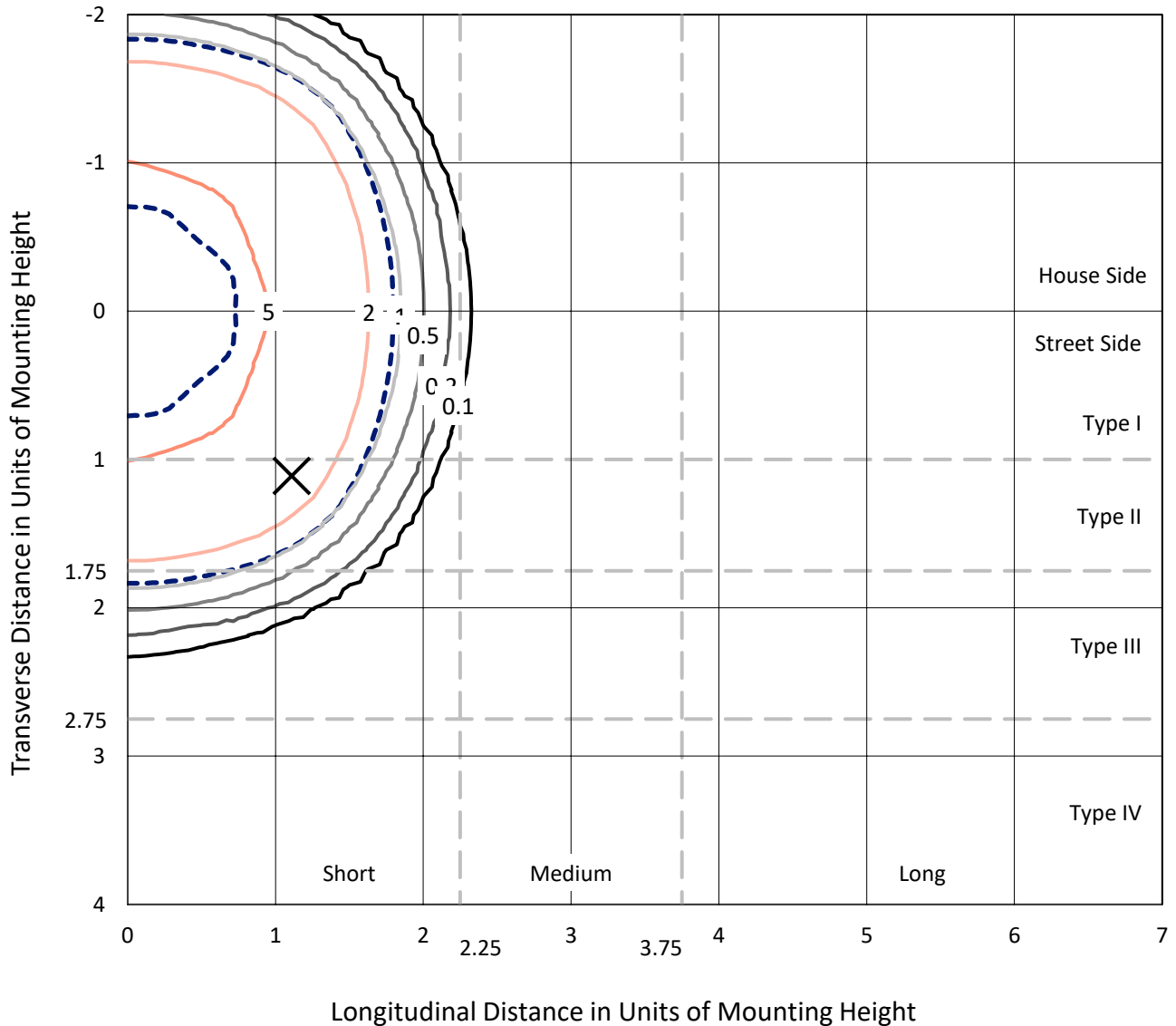
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

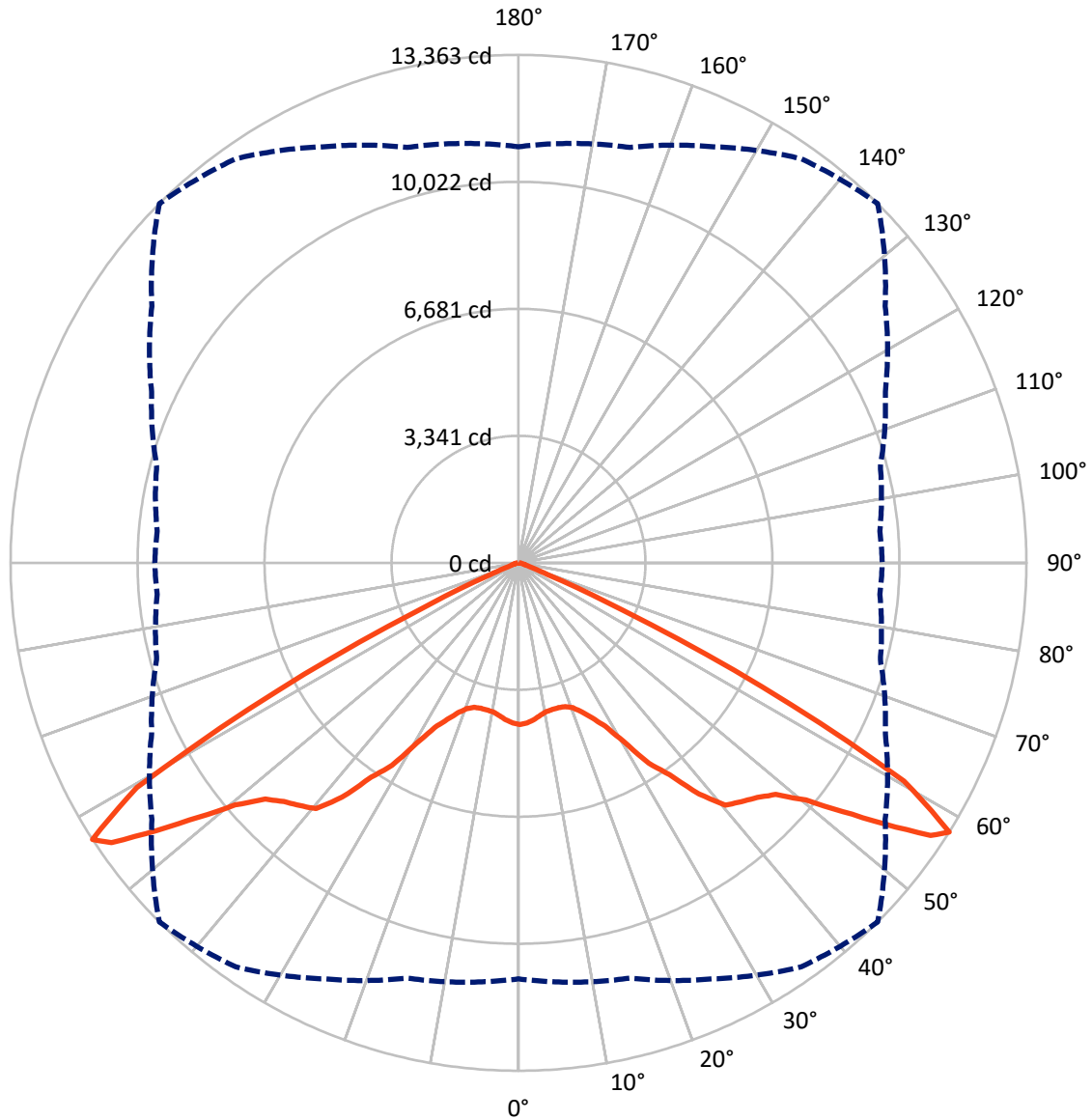
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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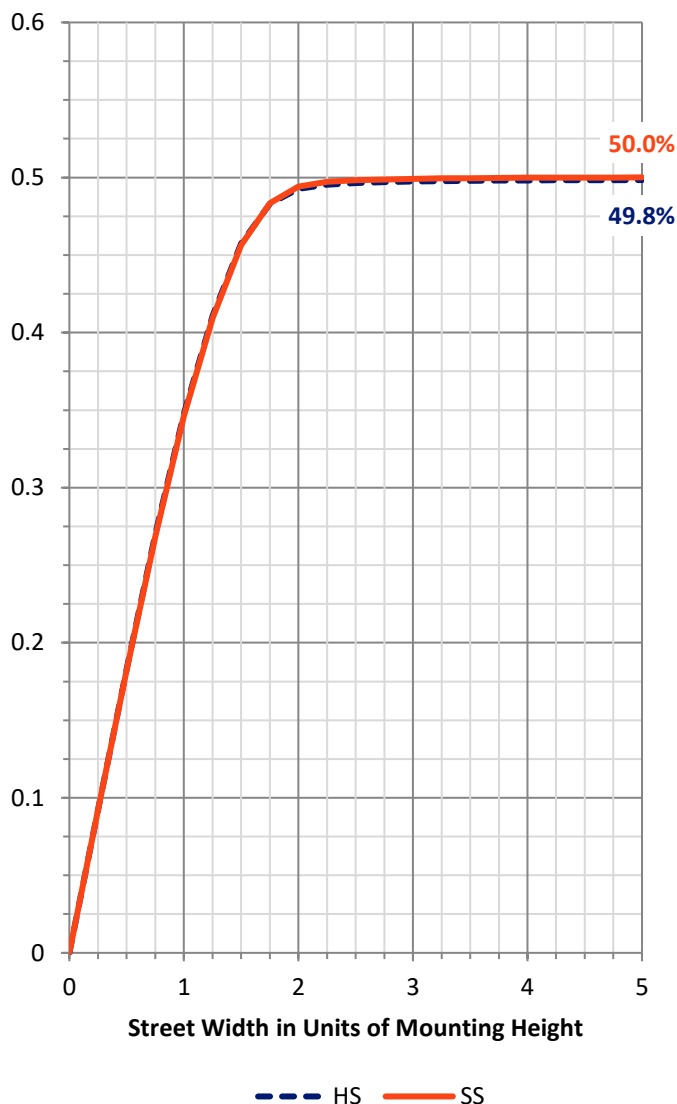
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13701.6	0.0	13701.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13701.6	0.0	13701.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	27403.2	0.0	27403.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.6	1.4
10°-20°	1129.0	4.1
20°-30°	2084.0	7.6
30°-40°	4098.5	15.0
40°-50°	6675.3	24.4
50°-60°	9519.8	34.7
60°-70°	3296.0	12.0
70°-80°	176.8	0.6
80°-90°	33.2	0.1
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°	27403.2	100.0
0°-180°	27403.2	100.0

Coefficient of Utilization



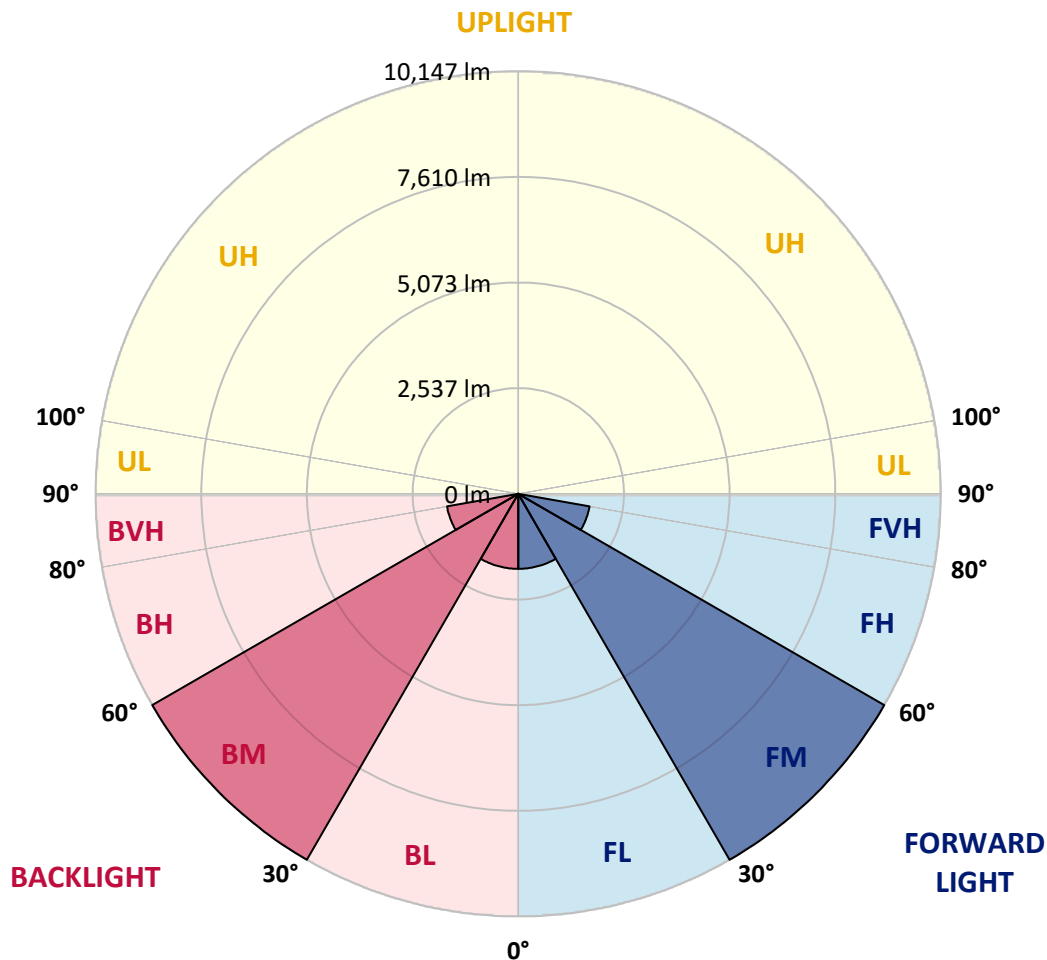
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1801.8	6.6			
FM (30°-60°)	10146.8	37.0			
FH (60°-80°)	1736.4	6.3			G1/1800
FVH (80°-90°)	16.6	0.1			G1/100
BL (0°-30°)	1801.8	6.6	B3/2500		
BM (30°-60°)	10146.8	37.0	B5		
BH (60°-80°)	1736.4	6.3	B3/2500		G1/1800
BVH (80°-90°)	16.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4250.5	4250.5	4250.5	4250.5	4250.5	4250.5	4250.5	4250.5	4250.5	4250.5	4250.5
2.5°	4239.1	4261.9	4233.3	4222.0	4216.3	4216.3	4199.1	4199.1	4193.4	4199.1	4176.2
5°	4170.5	4193.4	4193.4	4187.7	4153.4	4147.6	4130.6	4119.1	4124.9	4102.0	4119.1
7.5°	4102.0	4119.1	4096.3	4090.5	4079.1	4056.3	4050.6	3999.1	4004.8	4004.8	4016.3
10°	4090.5	4084.8	4050.6	4022.0	3987.7	3982.0	3964.9	3953.5	3953.5	3947.7	3964.9
12.5°	4090.5	4061.9	4056.3	3993.4	3936.3	3959.2	3913.4	3884.9	3924.9	3936.3	3959.2
15°	4084.8	4113.4	4016.3	3987.7	3947.7	3953.5	3913.4	3884.9	3907.7	3919.1	3936.3
17.5°	4119.1	4102.0	4073.4	4016.3	3999.1	3976.2	3924.9	3902.0	3902.0	3930.6	3936.3
20°	4210.6	4164.8	4107.7	4079.1	4096.3	4067.7	4004.8	3919.1	3942.0	3964.9	3982.0
22.5°	4296.2	4261.9	4222.0	4204.8	4302.0	4256.2	4147.6	4050.6	4016.3	4056.3	4084.8
25°	4461.9	4461.9	4387.7	4410.5	4519.0	4524.7	4399.0	4227.6	4204.8	4222.0	4233.3
27.5°	4799.0	4816.1	4753.2	4776.1	4821.8	4861.8	4753.2	4610.4	4559.1	4553.3	4570.4
30°	5164.6	5198.9	5193.2	5290.3	5421.7	5444.5	5284.6	5050.4	4896.0	4867.5	4890.4
32.5°	5644.5	5661.6	5650.2	5764.5	6118.7	6284.4	5867.3	5536.0	5330.3	5381.7	5330.3
35°	6547.2	6530.0	6404.3	6427.2	6718.6	6838.5	6438.6	6227.3	6130.1	6233.0	6210.1
37.5°	7324.1	7261.3	7158.4	7307.0	7609.8	7718.4	7301.3	6929.9	6752.8	6924.2	6998.5
40°	7981.2	7821.2	7678.3	7826.9	8232.5	8381.1	7769.7	7467.0	7398.4	7524.1	7684.0
42.5°	8535.3	8432.5	8243.9	8255.3	8523.9	8592.4	8101.1	7924.0	7855.4	8055.4	8135.4
45°	8929.5	8832.4	8655.3	8643.9	8849.5	8803.8	8363.9	8243.9	8283.9	8415.3	8455.3
47.5°	9129.5	9180.9	9078.0	9106.6	9215.2	9106.6	8758.1	8758.1	8666.7	8746.7	8706.7
50°	9706.5	9546.5	9677.9	9677.9	9792.2	9803.6	9455.1	9329.4	9083.7	8946.6	8946.6
52.5°	10380.6	10392.1	10443.5	10632.0	10826.3	10992.0	10494.9	9957.9	9546.5	9369.4	9346.5
55°	10934.8	11049.1	11254.7	11608.9	12168.8	12397.3	11540.4	10580.6	10077.9	9803.6	9746.5
56°	11237.6	11129.0	11483.3	11968.9	12700.1	12997.2	11711.8	10706.3	10152.1	9843.6	9837.8
57.5°	10946.2	11066.2	11311.9	12077.4	12974.4	13362.8	11774.6	10649.2	9855.0	9540.8	9569.4
60°	8643.9	8758.1	9089.4	9946.4	11351.8	11654.7	9963.6	8781.0	8072.6	7621.2	7626.9
62.5°	4890.4	4976.1	5233.1	6027.3	6901.4	7192.7	6210.1	5421.7	4930.4	4679.0	4599.0
65°	1799.6	1765.3	1805.3	2211.0	2748.0	2993.6	2582.3	2182.4	1925.3	1833.9	1799.6
67.5°	674.1	622.8	582.7	622.8	782.7	828.4	759.8	634.1	594.2	611.3	622.8
70°	417.1	394.2	314.2	297.0	291.4	285.7	302.8	319.9	365.7	428.5	439.9
72.5°	291.4	274.3	222.8	211.3	200.0	194.3	222.8	245.7	285.7	331.4	337.1
75°	114.3	120.0	114.3	125.6	131.4	137.1	160.0	177.1	194.3	194.3	188.6
77.5°	22.9	22.9	34.3	45.7	57.1	74.3	108.6	125.6	131.4	125.6	108.6
80°	0.0	0.0	11.4	22.9	45.7	62.8	97.1	108.6	120.0	108.6	85.7
82.5°	0.0	0.0	11.4	28.6	45.7	57.1	91.4	114.3	131.4	120.0	91.4
85°	0.0	0.0	11.4	22.9	34.3	40.0	40.0	28.6	28.6	17.2	11.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)