

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: P651103

Luminaire Tested: **GALN-SA9C-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32168.3 lumens
Efficiency: N/A
Efficacy: 66.9 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

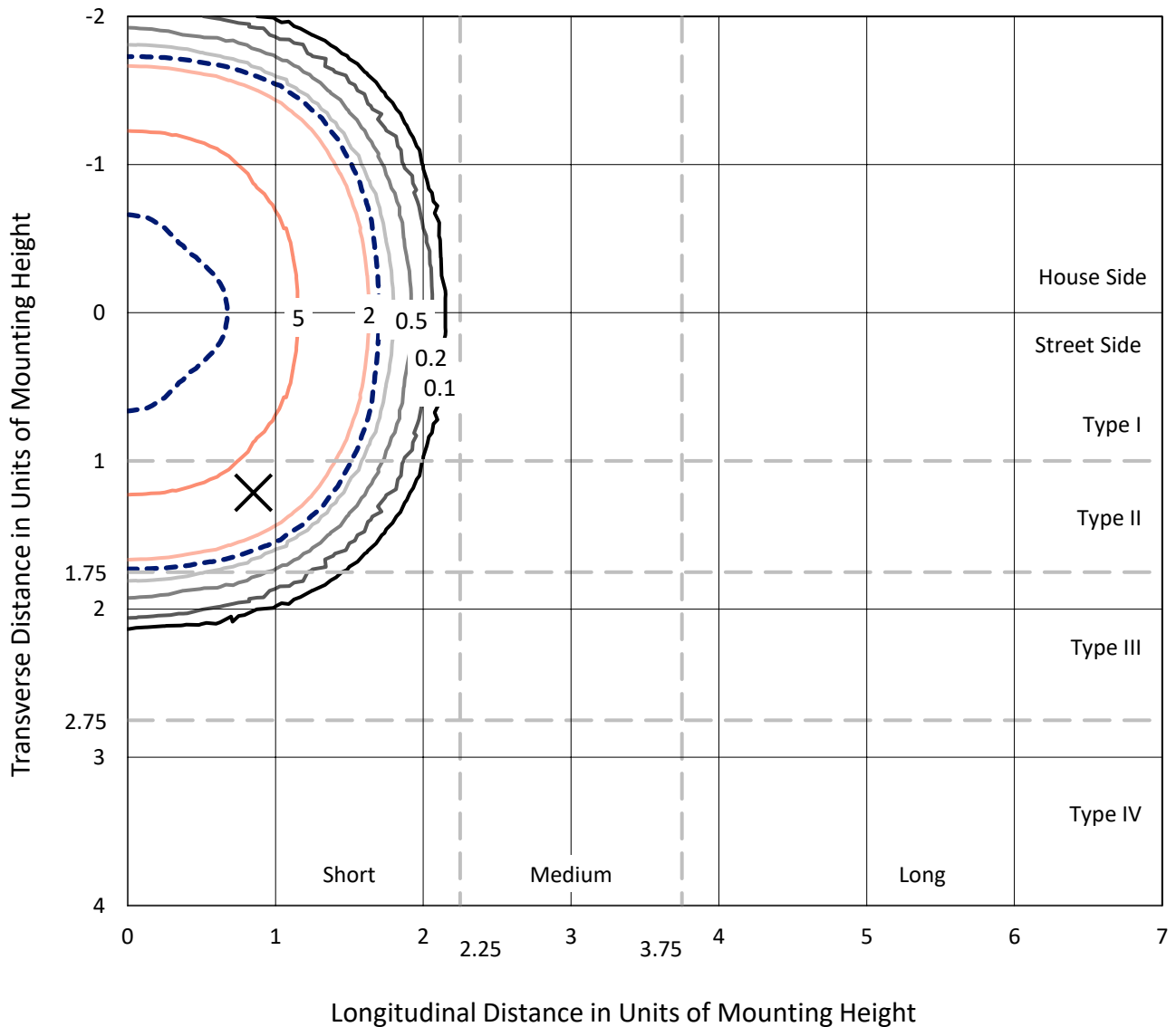
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

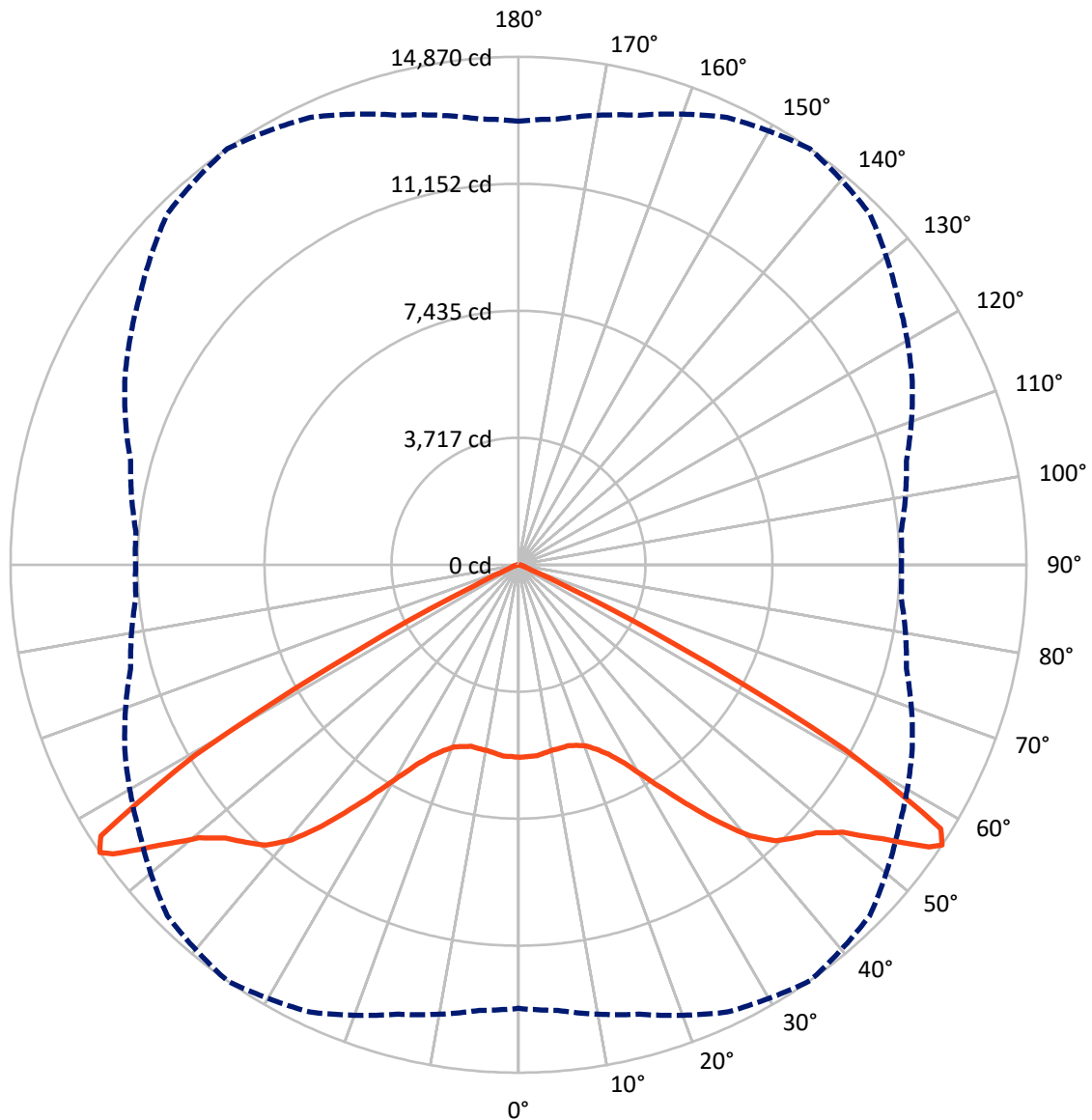
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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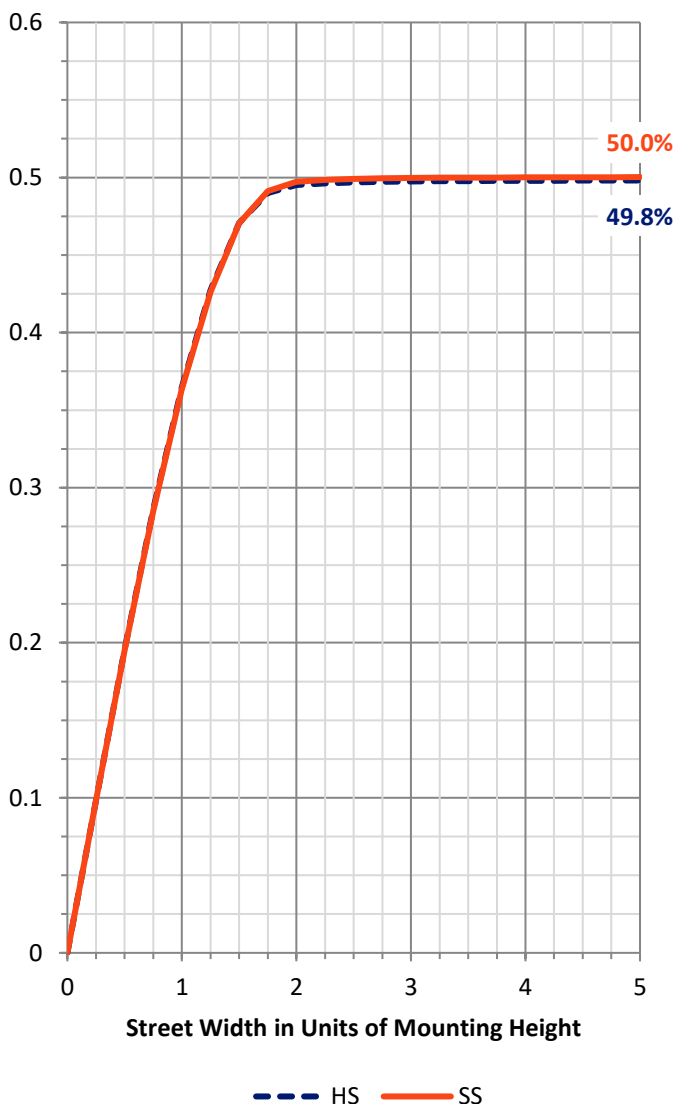
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16084.1	0.0	16084.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16084.1	0.0	16084.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	32168.3	0.0	32168.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.8	1.6
10°-20°	1546.6	4.8
20°-30°	2800.7	8.7
30°-40°	5193.5	16.1
40°-50°	8524.8	26.5
50°-60°	10982.5	34.1
60°-70°	2420.4	7.5
70°-80°	140.4	0.4
80°-90°	29.6	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°	32168.3	100.0
0°-180°	32168.3	100.0

Coefficient of Utilization

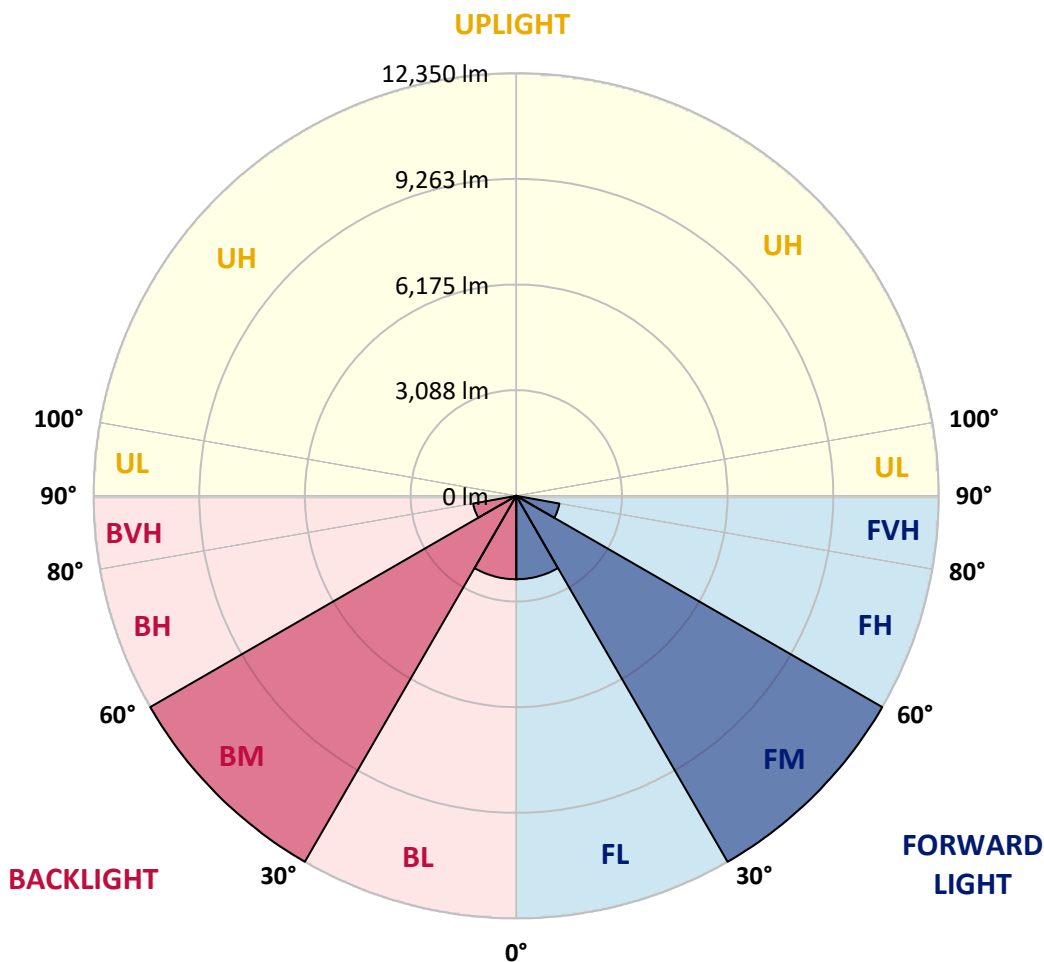


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2438.5	7.6			
FM (30°-60°)	12350.4	38.4			
FH (60°-80°)	1280.4	4.0			G1/1800
FVH (80°-90°)	14.8	0.0			G1/100
BL (0°-30°)	2438.5	7.6	B3/2500		
BM (30°-60°)	12350.4	38.4	B5		
BH (60°-80°)	1280.4	4.0	B3/2500		G1/1800
BVH (80°-90°)	14.8	0.0			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°	5636.6	5636.6	5636.6	5636.6	5636.6	5636.6	5636.6	5636.6	5636.6	5636.6	5636.6
2.5°	5648.2	5648.2	5654.0	5659.8	5619.1	5601.6	5607.5	5595.8	5590.0	5607.5	5607.5
5°	5630.7	5630.7	5613.3	5619.1	5619.1	5566.7	5566.7	5578.3	5578.3	5543.3	5531.7
7.5°	5584.1	5572.5	5549.2	5578.3	5560.8	5560.8	5520.0	5490.8	5479.2	5502.5	5479.2
10°	5485.0	5490.8	5514.2	5525.8	5514.2	5549.2	5479.2	5438.4	5397.6	5380.1	5380.1
12.5°	5438.4	5473.4	5438.4	5467.5	5508.3	5479.2	5438.4	5409.2	5350.9	5327.7	5327.7
15°	5432.5	5455.9	5467.5	5508.3	5490.8	5502.5	5420.9	5385.9	5298.5	5257.7	5240.2
17.5°	5426.7	5455.9	5473.4	5549.2	5560.8	5566.7	5502.5	5397.6	5321.8	5281.0	5240.2
20°	5490.8	5502.5	5537.5	5613.3	5659.8	5741.5	5624.9	5514.2	5350.9	5304.4	5286.9
22.5°	5572.5	5630.7	5665.7	5747.3	5869.8	5939.6	5788.1	5648.2	5479.2	5420.9	5350.9
25°	5834.8	5823.1	5881.4	6050.4	6149.5	6202.0	6079.6	5875.6	5654.0	5584.1	5595.8
27.5°	6161.2	6172.9	6225.3	6411.8	6557.5	6639.1	6493.4	6225.3	6009.6	5893.1	5881.4
30°	6586.7	6575.0	6633.3	6883.9	7146.2	7268.7	7012.2	6697.5	6487.6	6336.0	6371.0
32.5°	7035.5	7041.4	7204.5	7431.9	7857.4	8096.4	7682.5	7297.8	6983.1	6878.1	6825.6
35°	7700.0	7729.1	7857.4	8207.2	8679.3	8988.2	8533.5	8073.1	7711.6	7519.3	7542.6
37.5°	8521.9	8492.8	8708.4	9087.3	9582.8	9810.1	9425.3	8900.8	8533.5	8405.3	8487.0
40°	9396.2	9425.3	9536.1	9880.0	10433.8	10585.3	10014.1	9728.4	9407.8	9343.8	9442.8
42.5°	10270.5	10253.1	10334.7	10643.6	11045.8	10940.9	10602.8	10433.8	10206.5	10078.2	10212.3
45°	10911.7	10882.6	11034.2	11244.0	11389.7	11191.5	11040.0	10981.7	10865.1	10725.2	10847.6
47.5°	11535.4	11512.1	11657.9	11716.1	11727.8	11465.5	11494.6	11599.6	11308.1	11016.7	11156.5
50°	12065.9	12025.0	12205.8	12334.0	12304.8	11885.2	11990.1	11885.2	11430.5	11086.7	11034.2
52.5°	12951.9	12969.3	13161.7	13394.9	13324.9	12975.2	12823.7	12345.6	11762.7	11453.8	11273.1
55°	13511.4	13424.0	13756.2	14496.6	14578.1	14216.8	13546.4	12841.1	11966.8	11587.9	11541.3
56°	12986.8	13097.6	13622.2	14449.9	14869.6	14537.4	13563.9	12718.7	11756.9	11244.0	11209.0
57.5°	11652.1	11593.7	12304.8	13435.6	14578.1	14438.2	13086.0	11844.4	10725.2	10148.2	10078.2
60°	7251.2	7420.2	8043.9	9442.8	10970.0	11040.0	9699.3	8632.6	7327.0	6814.0	6936.4
62.5°	2838.7	2693.0	3083.5	4126.9	5176.1	5409.2	4902.1	4074.4	3345.8	2838.7	2803.7
65°	658.7	641.2	722.8	996.8	1393.1	1614.6	1533.0	1101.6	810.2	769.4	711.1
67.5°	373.1	373.1	355.6	355.6	390.6	413.9	396.4	390.6	408.1	425.5	419.7
70°	262.3	256.5	244.8	250.6	239.0	239.0	256.5	285.6	308.9	308.9	314.8
72.5°	157.4	157.4	157.4	174.8	174.8	174.8	192.3	215.6	221.5	215.6	209.8
75°	70.0	70.0	81.6	99.1	110.8	116.6	134.1	145.7	157.4	145.7	134.1
77.5°	17.5	17.5	29.2	40.8	52.5	64.1	87.5	105.0	110.8	105.0	87.5
80°	5.8	5.8	11.7	29.2	52.5	64.1	87.5	93.3	99.1	87.5	70.0
82.5°	5.8	5.8	11.7	29.2	40.8	52.5	70.0	81.6	87.5	75.8	70.0
85°	0.0	5.8	11.7	23.3	35.0	46.6	46.6	35.0	29.2	17.5	23.3
87.5°	0.0	0.0	5.8	5.8	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)