

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: P652093

Luminaire Tested: **GALN-SA9A-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652093
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-SA9A-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA 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: 20924.9 lumens
Efficiency: N/A
Efficacy: 76.4 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

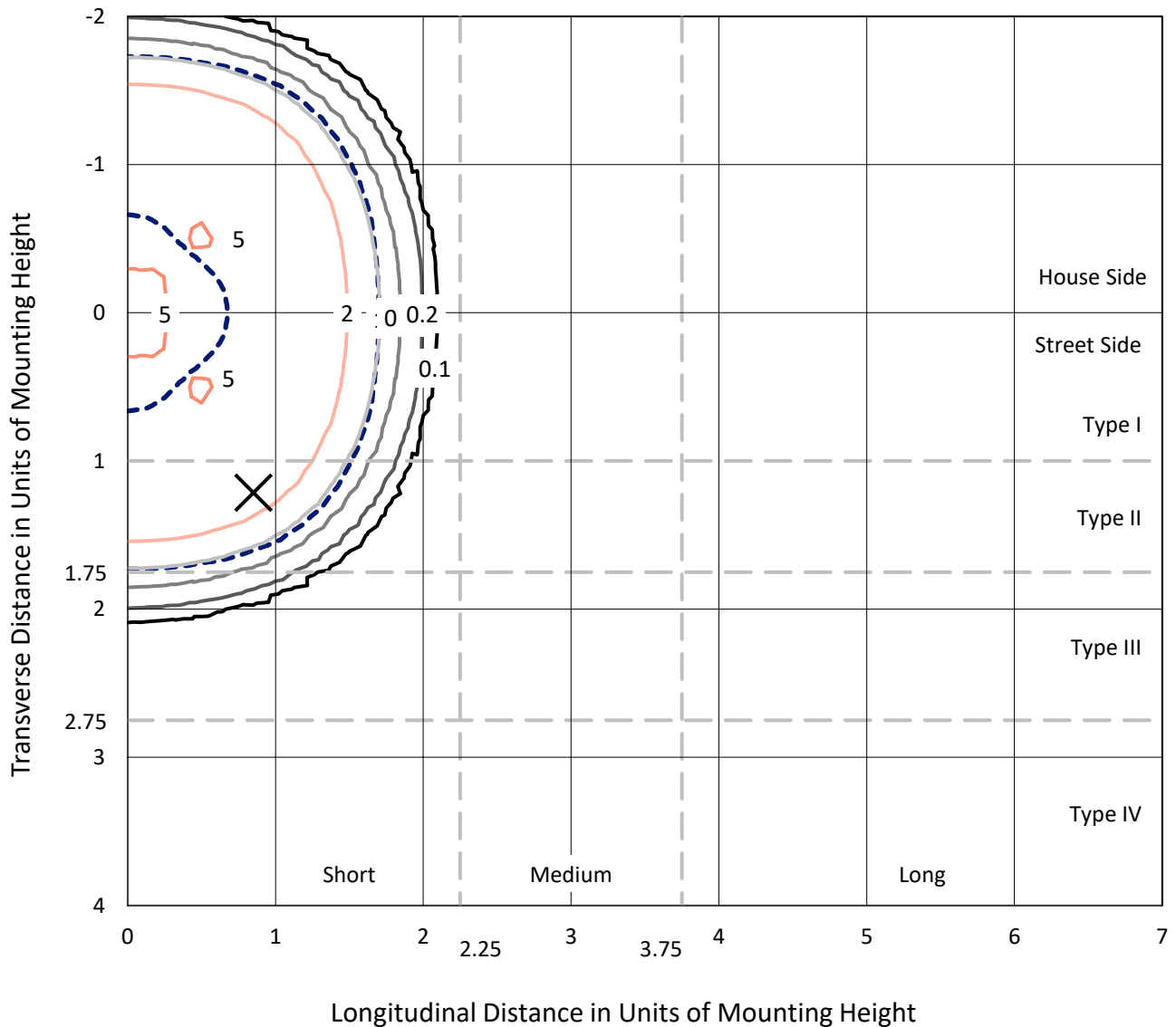
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

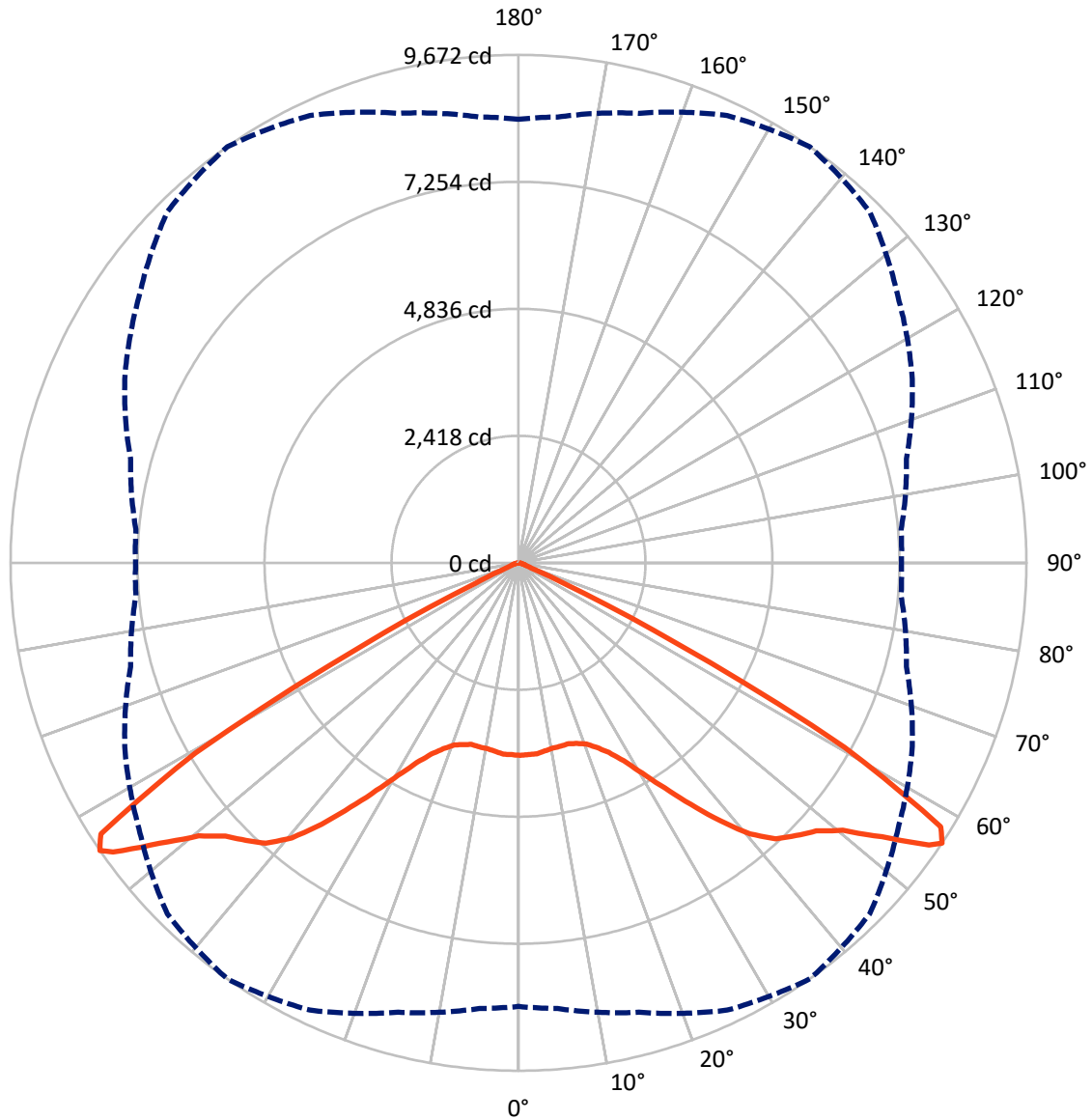
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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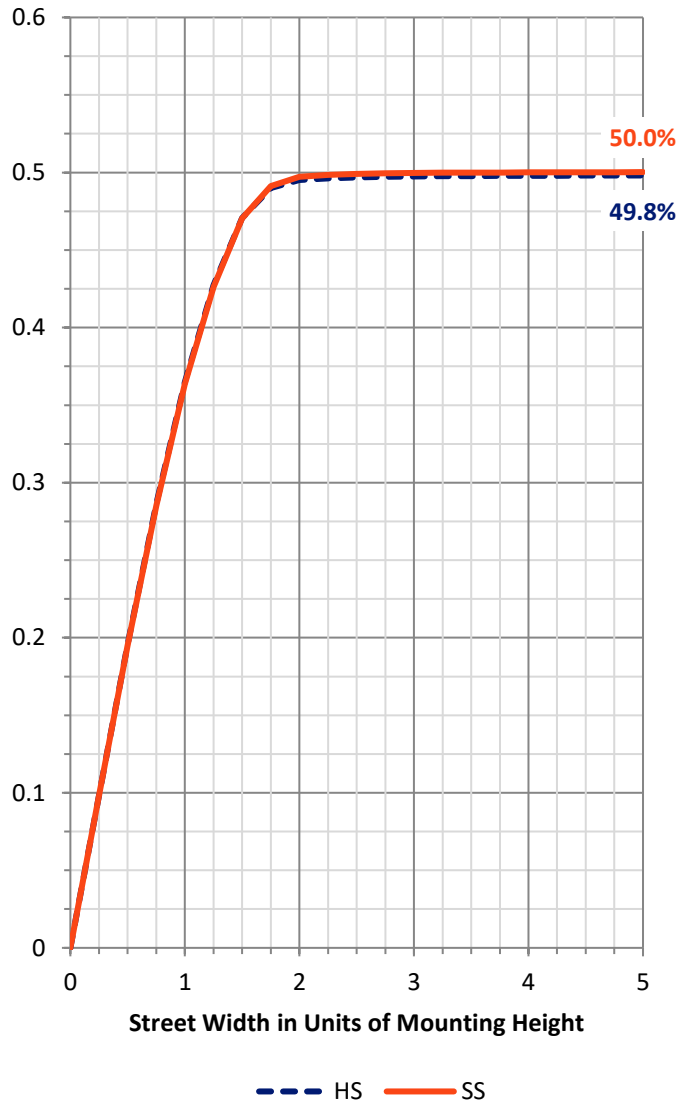
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10462.5	0.0	10462.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10462.5	0.0	10462.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20924.9	0.0	20924.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.6	1.6
10°-20°	1006.0	4.8
20°-30°	1821.8	8.7
30°-40°	3378.3	16.1
40°-50°	5545.2	26.5
50°-60°	7143.9	34.1
60°-70°	1574.4	7.5
70°-80°	91.4	0.4
80°-90°	19.2	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°	20924.9	100.0
0°-180°	20924.9	100.0

Coefficient of Utilization

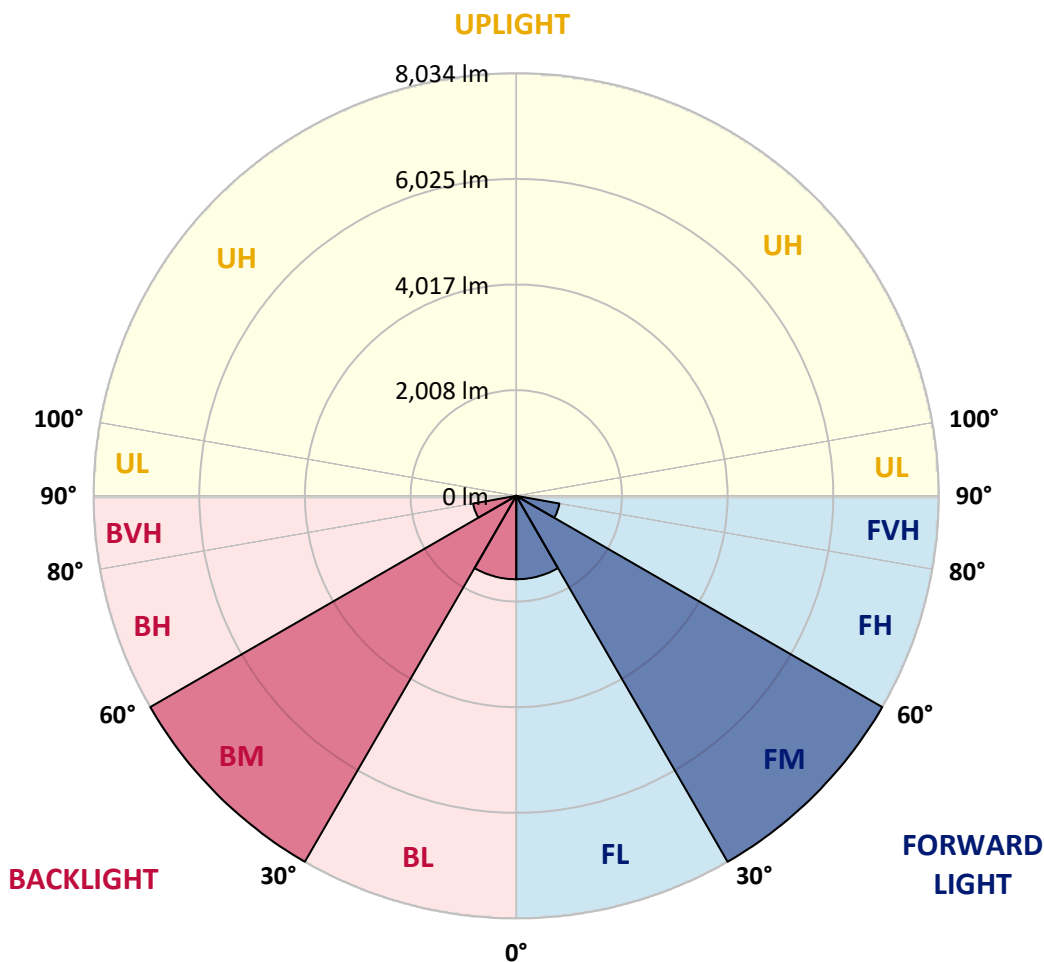


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1586.2	7.6			
FM (30°-60°)	8033.7	38.4			
FH (60°-80°)	832.9	4.0			G1/1800
FVH (80°-90°)	9.6	0.0			G0/10
BL (0°-30°)	1586.2	7.6	B3/2500		
BM (30°-60°)	8033.7	38.4	B4/8500		
BH (60°-80°)	832.9	4.0	B2/1000		G1/1800
BVH (80°-90°)	9.6	0.0			G0/10
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°	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5	3666.5
2.5°	3674.1	3674.1	3677.9	3681.6	3655.2	3643.7	3647.5	3639.9	3636.1	3647.5	3647.5
5°	3662.7	3662.7	3651.4	3655.2	3655.2	3621.0	3621.0	3628.6	3628.6	3605.9	3598.2
7.5°	3632.4	3624.8	3609.7	3628.6	3617.2	3617.2	3590.6	3571.7	3564.2	3579.3	3564.2
10°	3567.9	3571.7	3586.9	3594.4	3586.9	3609.7	3564.2	3537.6	3511.0	3499.7	3499.7
12.5°	3537.6	3560.3	3537.6	3556.5	3583.1	3564.2	3537.6	3518.7	3480.7	3465.5	3465.5
15°	3533.8	3548.9	3556.5	3583.1	3571.7	3579.3	3526.2	3503.4	3446.6	3420.0	3408.7
17.5°	3530.0	3548.9	3560.3	3609.7	3617.2	3621.0	3579.3	3511.0	3461.7	3435.2	3408.7
20°	3571.7	3579.3	3602.0	3651.4	3681.6	3734.7	3658.9	3586.9	3480.7	3450.4	3439.0
22.5°	3624.8	3662.7	3685.4	3738.5	3818.1	3863.6	3765.1	3674.1	3564.2	3526.2	3480.7
25°	3795.4	3787.9	3825.7	3935.7	4000.1	4034.3	3954.6	3821.9	3677.9	3632.4	3639.9
27.5°	4007.7	4015.4	4049.4	4170.8	4265.6	4318.6	4223.8	4049.4	3909.1	3833.4	3825.7
30°	4284.6	4276.9	4314.8	4477.9	4648.5	4728.2	4561.3	4356.5	4220.1	4121.5	4144.3
32.5°	4576.5	4580.3	4686.5	4834.3	5111.1	5266.6	4997.4	4747.1	4542.3	4474.1	4440.0
35°	5008.7	5027.7	5111.1	5338.6	5645.7	5846.7	5550.9	5251.4	5016.3	4891.2	4906.4
37.5°	5543.4	5524.4	5664.6	5911.1	6233.4	6381.3	6131.1	5789.8	5550.9	5467.5	5520.6
40°	6112.1	6131.1	6203.0	6426.8	6787.0	6885.6	6514.0	6328.2	6119.7	6078.0	6142.4
42.5°	6680.8	6669.5	6722.5	6923.5	7185.1	7116.9	6897.0	6787.0	6639.1	6555.7	6642.9
45°	7097.9	7078.9	7177.5	7314.0	7408.8	7279.9	7181.3	7143.4	7067.6	6976.6	7056.2
47.5°	7503.7	7488.4	7583.2	7621.1	7628.7	7458.2	7477.1	7545.3	7355.7	7166.2	7257.2
50°	7848.6	7822.1	7939.6	8023.1	8004.1	7731.1	7799.3	7731.1	7435.4	7211.7	7177.5
52.5°	8425.0	8436.3	8561.5	8713.2	8667.7	8440.1	8341.5	8030.6	7651.5	7450.5	7333.0
55°	8789.0	8732.1	8948.2	9429.8	9482.9	9247.7	8811.7	8352.9	7784.2	7537.7	7507.4
56°	8447.8	8519.8	8861.0	9399.4	9672.4	9456.3	8823.1	8273.3	7647.7	7314.0	7291.3
57.5°	7579.4	7541.5	8004.1	8739.7	9482.9	9391.9	8512.2	7704.6	6976.6	6601.2	6555.7
60°	4716.7	4826.8	5232.4	6142.4	7135.8	7181.3	6309.3	5615.4	4766.0	4432.4	4512.0
62.5°	1846.5	1751.7	2005.8	2684.5	3366.9	3518.7	3188.7	2650.3	2176.4	1846.5	1823.8
65°	428.5	417.1	470.1	648.3	906.2	1050.2	997.2	716.6	527.1	500.5	462.6
67.5°	242.6	242.6	231.3	231.3	254.1	269.2	257.9	254.1	265.4	276.8	273.0
70°	170.6	166.9	159.3	163.1	155.4	155.4	166.9	185.8	200.9	200.9	204.8
72.5°	102.3	102.3	102.3	113.8	113.8	113.8	125.1	140.3	144.1	140.3	136.5
75°	45.5	45.5	53.1	64.4	72.1	75.9	87.2	94.8	102.3	94.8	87.2
77.5°	11.4	11.4	18.9	26.6	34.1	41.7	56.9	68.3	72.1	68.3	56.9
80°	3.8	3.8	7.6	18.9	34.1	41.7	56.9	60.6	64.4	56.9	45.5
82.5°	3.8	3.8	7.6	18.9	26.6	34.1	45.5	53.1	56.9	49.3	45.5
85°	0.0	3.8	7.6	15.1	22.8	30.4	30.4	22.8	18.9	11.4	15.1
87.5°	0.0	0.0	3.8	3.8	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)