

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: P652096

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
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-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23951.7 lumens
Efficiency: N/A
Efficacy: 87.4 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): 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

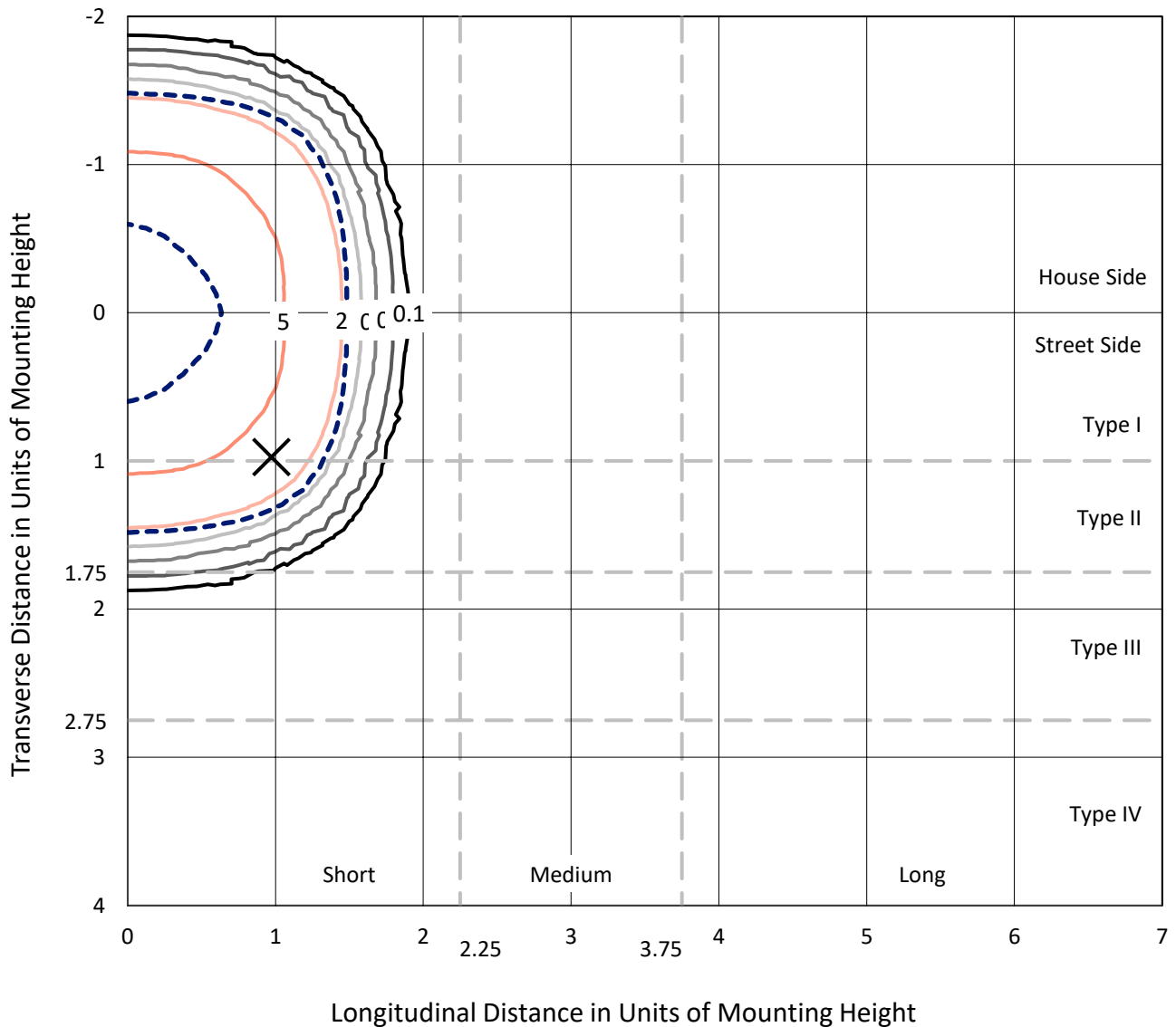




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Iso-Footcandle Lines of Horizontal Illumination

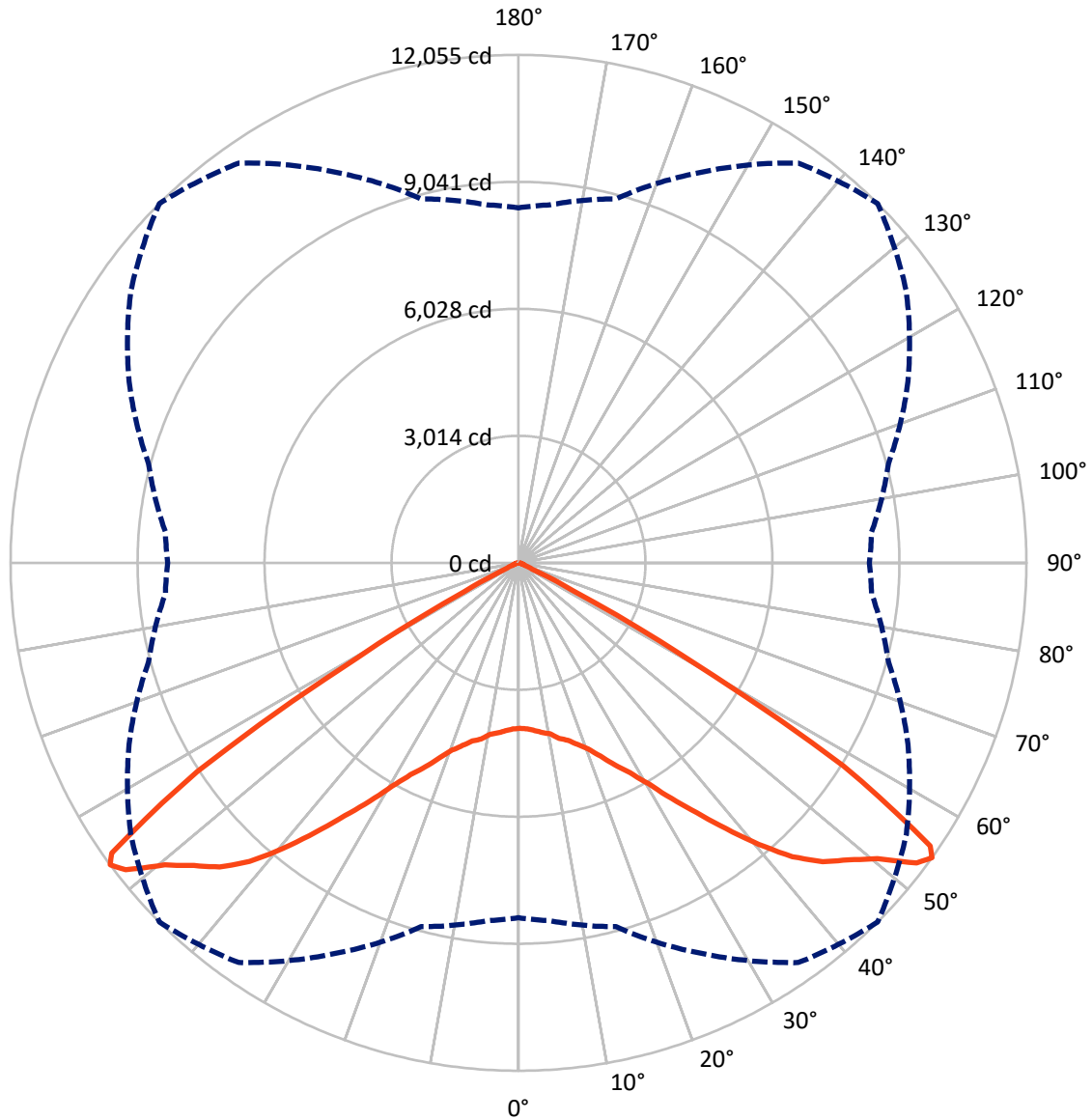
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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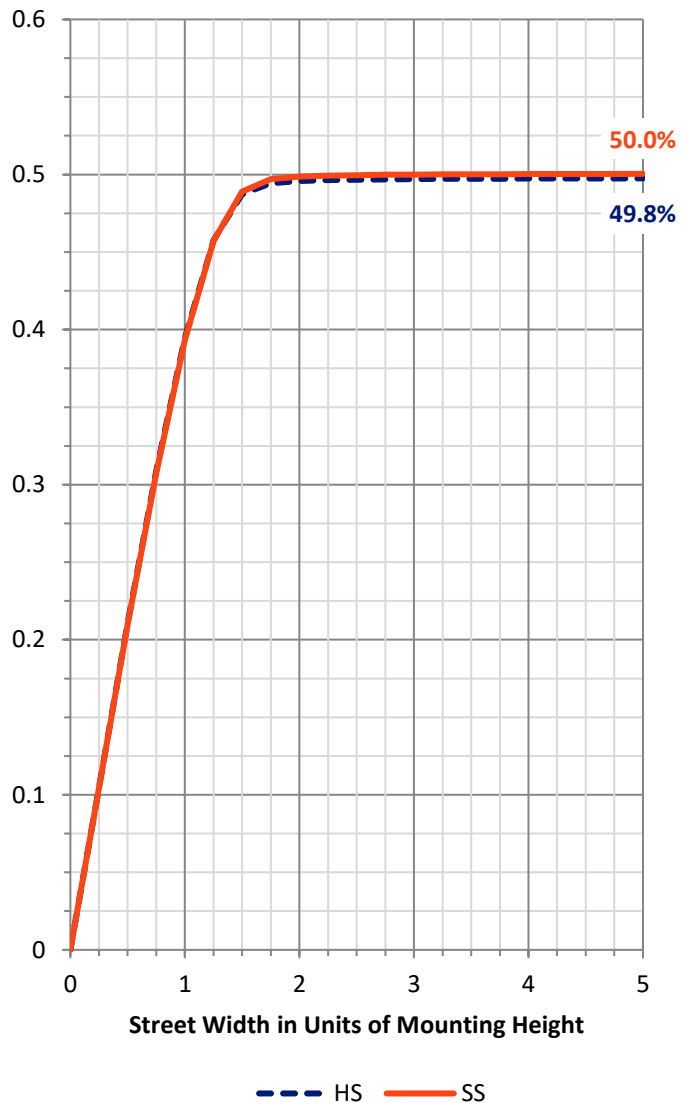
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11975.8	0.0	11975.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11975.8	0.0	11975.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	23951.7	0.0	23951.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.4	1.6
10°-20°	1244.8	5.2
20°-30°	2439.7	10.2
30°-40°	4387.2	18.3
40°-50°	7510.0	31.4
50°-60°	7266.6	30.3
60°-70°	622.1	2.6
70°-80°	73.7	0.3
80°-90°	23.1	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°	23951.7	100.0
0°-180°	23951.7	100.0

Coefficient of Utilization



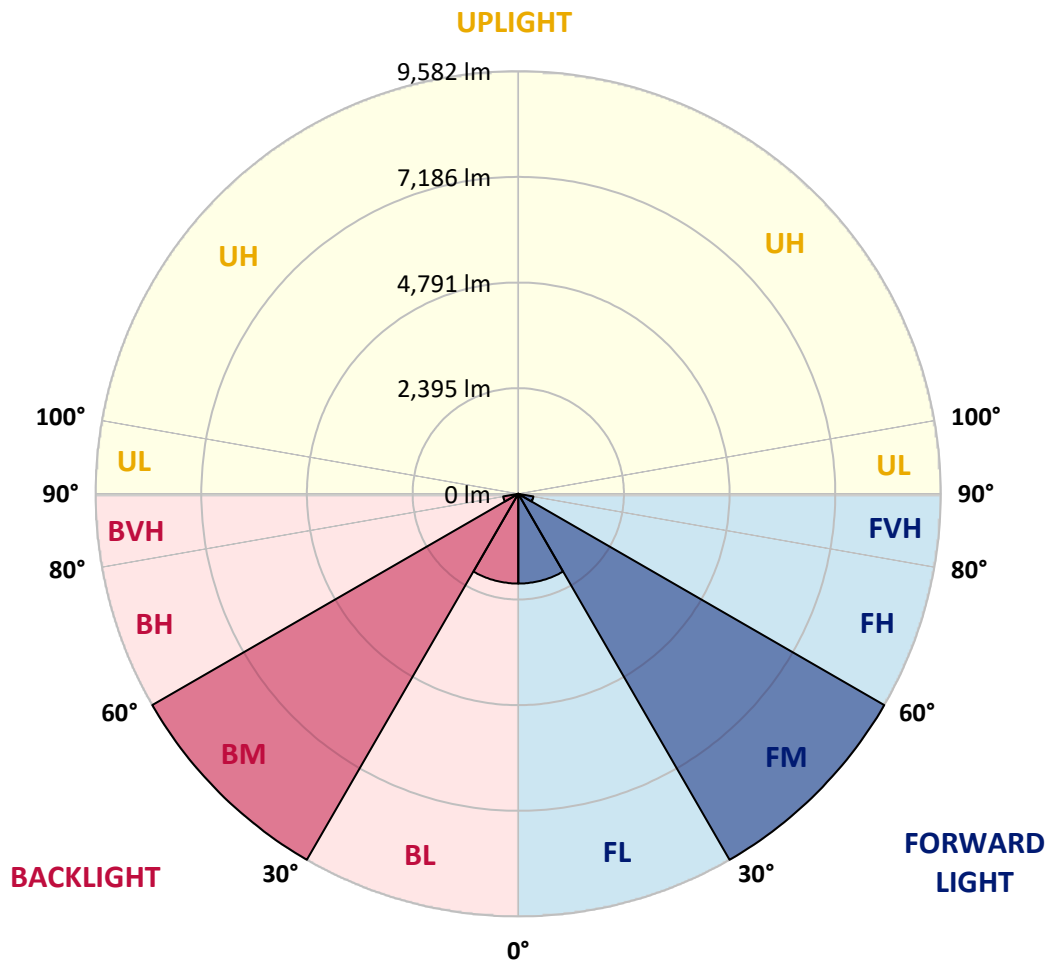
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2034.5	8.5			
FM (30°-60°)	9581.9	40.0			
FH (60°-80°)	347.9	1.5			G0/660
FVH (80°-90°)	11.6	0.0			G1/100
BL (0°-30°)	2034.5	8.5	B3/2500		
BM (30°-60°)	9581.9	40.0	B5		
BH (60°-80°)	347.9	1.5	B1/500		G0/660
BVH (80°-90°)	11.6	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°	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3	3927.3
2.5°	3946.3	3969.1	3953.9	3965.3	3965.3	3946.3	3957.7	3912.2	3942.5	3919.7	3923.5
5°	4007.0	4003.2	4003.2	4007.0	3991.8	3999.5	3984.2	3969.1	3957.7	3942.5	3988.0
7.5°	4082.9	4082.9	4056.3	4064.0	4056.3	4067.7	4037.4	4007.0	3995.6	3984.2	3976.7
10°	4155.0	4147.4	4136.0	4170.2	4143.6	4128.5	4113.2	4094.3	4052.5	4037.4	4022.2
12.5°	4261.3	4257.5	4242.3	4276.4	4261.3	4276.4	4219.5	4170.2	4162.6	4113.2	4139.8
15°	4386.5	4420.6	4394.1	4394.1	4386.5	4367.5	4344.7	4322.0	4253.7	4234.7	4238.5
17.5°	4549.6	4538.3	4542.1	4542.1	4580.0	4530.6	4485.1	4428.2	4394.1	4382.7	4344.7
20°	4705.2	4720.4	4716.6	4743.2	4765.9	4712.8	4663.4	4655.9	4561.0	4576.2	4523.1
22.5°	4978.4	4967.0	4986.0	5005.0	4989.8	4982.2	4936.7	4879.7	4796.3	4758.3	4750.7
25°	5266.8	5247.8	5213.7	5259.2	5282.0	5316.1	5228.8	5198.5	5069.5	5012.5	5016.4
27.5°	5513.4	5540.0	5577.9	5596.9	5653.9	5642.4	5581.7	5483.1	5384.4	5319.9	5278.2
30°	5851.2	5866.3	5930.8	5957.4	6056.0	6082.6	5987.8	5873.9	5699.4	5615.9	5566.6
32.5°	6162.3	6268.6	6264.8	6397.6	6556.9	6666.9	6496.2	6321.7	6147.1	6048.5	5961.2
35°	6666.9	6648.0	6758.0	6898.5	7156.5	7281.7	7095.8	6894.7	6629.0	6469.6	6401.4
37.5°	7137.5	7145.1	7293.1	7516.9	7812.9	8006.4	7843.3	7513.2	7239.9	7035.0	6940.2
40°	7820.5	7835.7	7987.5	8241.7	8575.6	8784.3	8594.6	8260.6	7896.4	7737.0	7737.0
42.5°	8621.2	8685.7	8784.3	9004.4	9304.2	9535.6	9364.9	9103.1	8735.0	8530.1	8560.5
45°	9444.6	9475.0	9539.5	9865.8	10006.1	10120.0	9960.6	9839.2	9592.5	9342.1	9300.4
47.5°	10214.9	10226.2	10416.0	10518.4	10628.5	10533.6	10636.0	10476.7	10199.6	9956.9	9907.5
50°	10556.3	10537.4	10806.8	11117.9	11201.4	11034.5	10947.2	10840.9	10419.7	10127.6	9998.6
52.5°	9562.2	9672.3	10173.1	11038.3	11690.9	11831.4	11322.9	10833.3	10047.9	9478.7	9391.4
54°	8423.9	8526.3	8939.9	10222.4	11580.9	12055.2	11235.6	10195.9	9087.8	8412.4	8325.1
55°	7296.9	7183.1	7934.3	9243.4	11064.8	11857.8	10890.3	9372.4	8105.1	7486.6	7365.1
57.5°	3950.1	3969.1	4602.8	5839.7	7775.0	9091.6	8029.2	6340.6	4788.7	4094.3	4033.6
60°	1252.2	1282.5	1559.6	2360.2	3714.9	4435.8	3802.1	2546.1	1760.6	1411.5	1354.7
62.5°	390.8	406.0	444.0	660.3	1016.9	1453.3	1138.4	683.0	508.5	466.8	474.3
65°	239.1	239.1	242.9	258.0	303.6	352.9	341.5	299.7	288.4	280.8	277.0
67.5°	155.6	151.8	159.4	170.7	178.4	182.2	193.5	204.9	201.1	193.5	193.5
70°	94.9	91.1	98.6	113.9	117.7	125.2	136.6	151.8	148.0	140.4	144.2
72.5°	53.2	53.2	56.9	68.3	79.7	87.3	98.6	110.0	113.9	110.0	110.0
75°	19.0	22.8	30.4	41.7	49.4	60.7	72.1	83.5	94.9	87.3	83.5
77.5°	7.6	7.6	15.1	26.6	37.9	49.4	68.3	79.7	87.3	79.7	72.1
80°	3.8	3.8	11.4	22.8	34.1	45.5	56.9	68.3	72.1	64.5	56.9
82.5°	3.8	3.8	11.4	22.8	34.1	41.7	60.7	68.3	75.9	68.3	56.9
85°	0.0	3.8	11.4	22.8	30.4	34.1	34.1	22.8	19.0	11.4	11.4
87.5°	0.0	0.0	3.8	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)