

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: P650993

Luminaire Tested: **GALN-SA7C-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650993
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-SA7C-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 24715.3 lumens
Efficiency: N/A
Efficacy: 65.6 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): 377
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

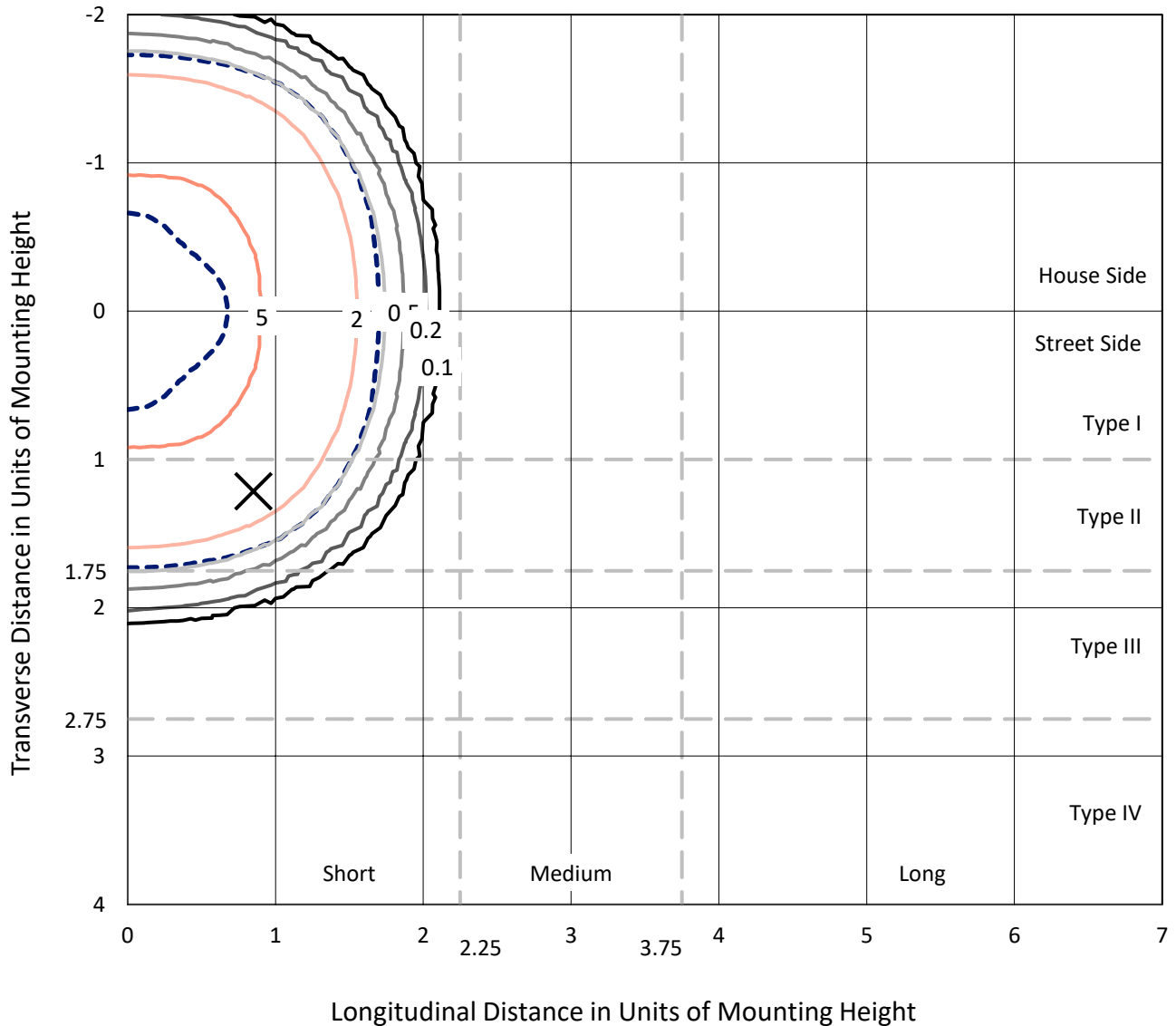




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Iso-Footcandle Lines of Horizontal Illumination

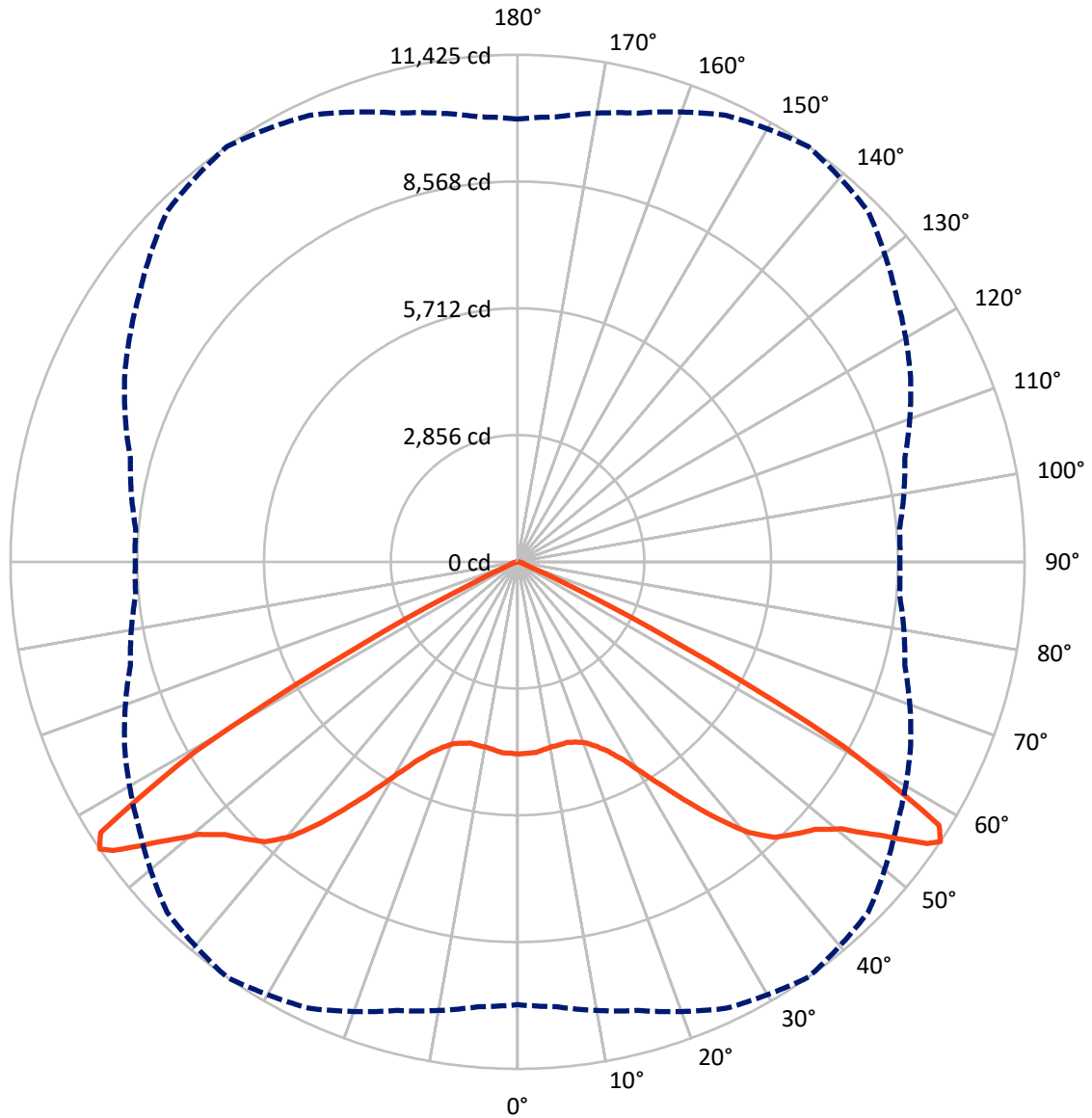
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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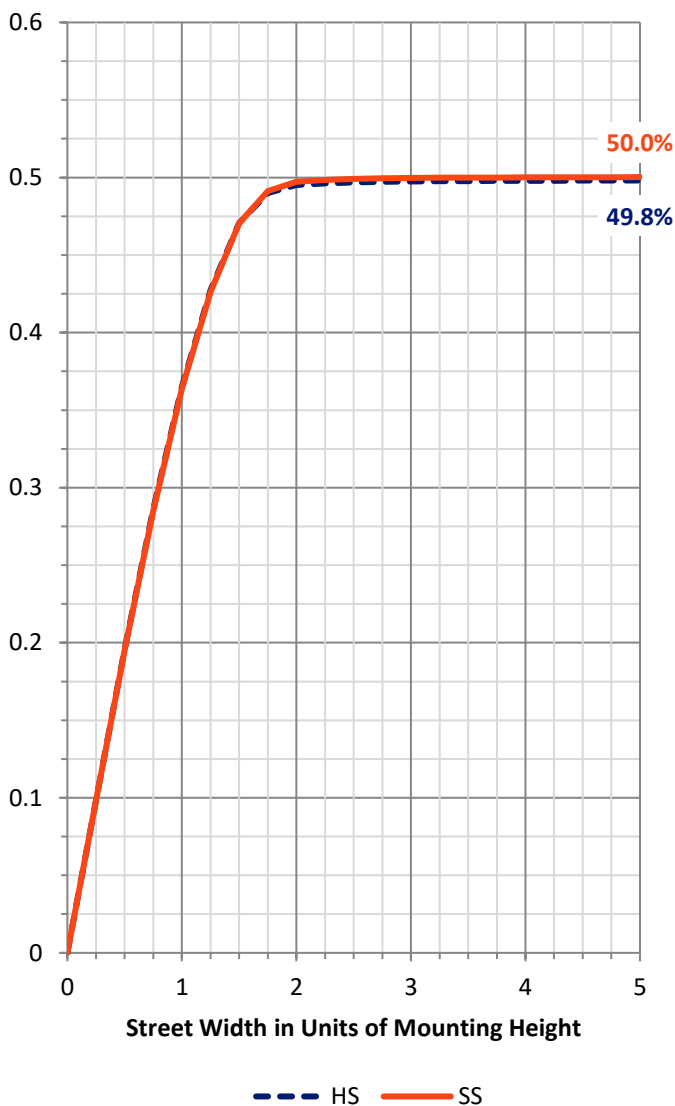
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12357.7	0.0	12357.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12357.7	0.0	12357.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	24715.3	0.0	24715.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.0	1.6
10°-20°	1188.3	4.8
20°-30°	2151.8	8.7
30°-40°	3990.3	16.1
40°-50°	6549.7	26.5
50°-60°	8438.0	34.1
60°-70°	1859.6	7.5
70°-80°	107.9	0.4
80°-90°	22.7	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°	24715.3	100.0
0°-180°	24715.3	100.0

Coefficient of Utilization

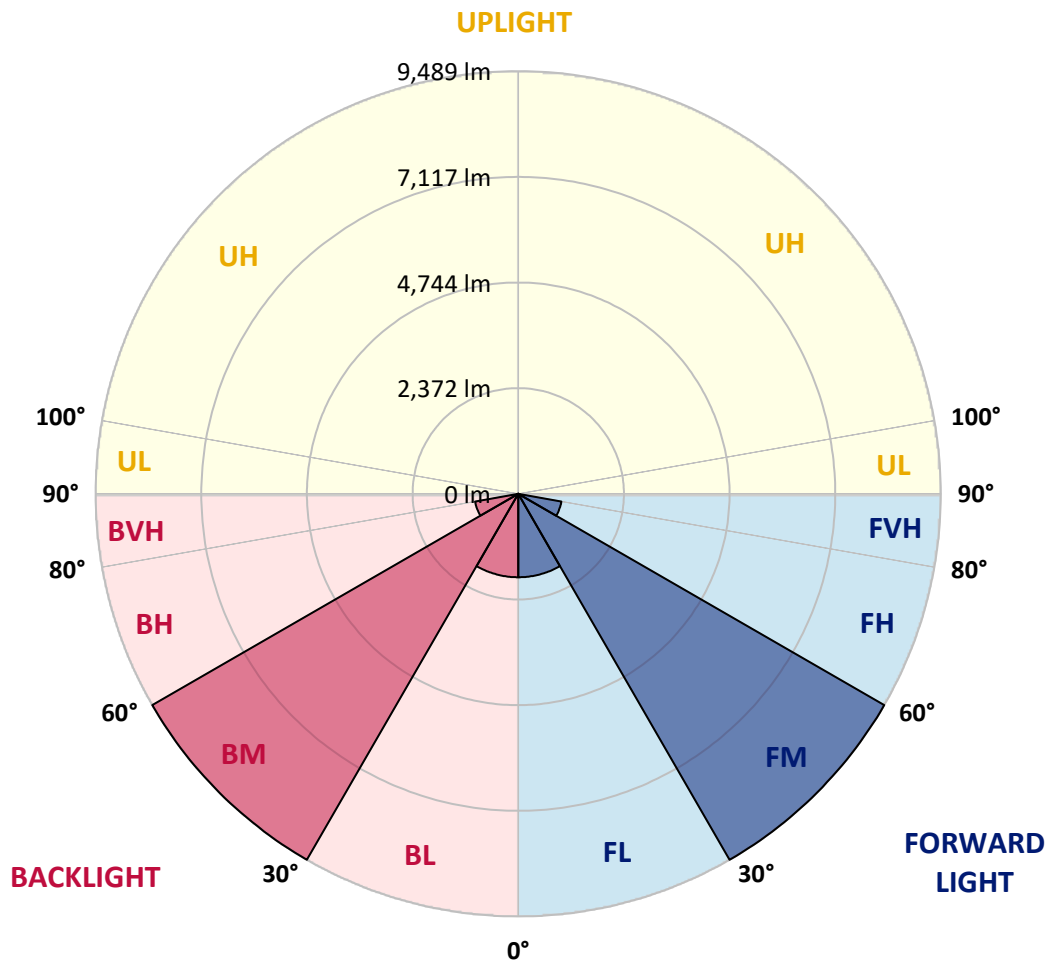


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1873.6	7.6			
FM (30°-60°)	9489.0	38.4			
FH (60°-80°)	983.8	4.0			G1/1800
FVH (80°-90°)	11.4	0.0			G1/100
BL (0°-30°)	1873.6	7.6	B3/2500		
BM (30°-60°)	9489.0	38.4	B5		
BH (60°-80°)	983.8	4.0	B2/1000		G1/1800
BVH (80°-90°)	11.4	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°	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6	4330.6
2.5°	4339.6	4339.6	4344.1	4348.6	4317.2	4303.8	4308.3	4299.3	4294.8	4308.3	4308.3
5°	4326.2	4326.2	4312.7	4317.2	4317.2	4276.9	4276.9	4285.9	4285.9	4259.0	4250.1
7.5°	4290.4	4281.4	4263.4	4285.9	4272.4	4272.4	4241.1	4218.7	4209.7	4227.6	4209.7
10°	4214.3	4218.7	4236.6	4245.5	4236.6	4263.4	4209.7	4178.4	4147.1	4133.6	4133.6
12.5°	4178.4	4205.3	4178.4	4200.8	4232.2	4209.7	4178.4	4156.0	4111.2	4093.3	4093.3
15°	4173.9	4191.8	4200.8	4232.2	4218.7	4227.6	4165.0	4138.1	4070.9	4039.6	4026.1
17.5°	4169.4	4191.8	4205.3	4263.4	4272.4	4276.9	4227.6	4147.1	4088.9	4057.5	4026.1
20°	4218.7	4227.6	4254.5	4312.7	4348.6	4411.3	4321.7	4236.6	4111.2	4075.4	4061.9
22.5°	4281.4	4326.2	4353.0	4415.8	4509.8	4563.5	4447.1	4339.6	4209.7	4165.0	4111.2
25°	4483.0	4474.0	4518.8	4648.6	4724.7	4765.0	4671.0	4514.2	4344.1	4290.4	4299.3
27.5°	4733.7	4742.7	4782.9	4926.3	5038.3	5100.9	4989.0	4782.9	4617.3	4527.7	4518.8
30°	5060.6	5051.7	5096.5	5289.0	5490.6	5584.6	5387.5	5145.7	4984.5	4868.0	4895.0
32.5°	5405.4	5410.0	5535.4	5710.1	6037.0	6220.5	5902.6	5607.0	5365.2	5284.6	5244.2
35°	5916.0	5938.4	6037.0	6305.6	6668.4	6905.8	6556.4	6202.6	5925.0	5777.2	5795.1
37.5°	6547.5	6525.1	6690.8	6981.9	7362.5	7537.2	7241.7	6838.6	6556.4	6458.0	6520.6
40°	7219.2	7241.7	7326.7	7591.0	8016.4	8132.9	7694.0	7474.6	7228.2	7178.9	7255.1
42.5°	7891.0	7877.6	7940.3	8177.6	8486.6	8406.0	8146.3	8016.4	7841.7	7743.3	7846.2
45°	8383.7	8361.2	8477.7	8638.9	8750.9	8598.6	8482.2	8437.4	8347.9	8240.4	8334.4
47.5°	8862.9	8844.9	8956.9	9001.6	9010.6	8809.1	8831.5	8912.1	8688.2	8464.2	8571.7
50°	9270.3	9239.1	9377.8	9476.4	9454.0	9131.6	9212.1	9131.6	8782.2	8518.0	8477.7
52.5°	9951.1	9964.5	10112.4	10291.5	10237.7	9969.0	9852.6	9485.3	9037.5	8800.1	8661.3
55°	10381.1	10313.9	10569.1	11137.9	11200.6	10922.9	10407.9	9866.0	9194.2	8903.2	8867.3
56°	9978.0	10063.1	10466.2	11102.0	11424.5	11169.2	10421.3	9772.0	9033.0	8638.9	8612.0
57.5°	8952.4	8907.6	9454.0	10322.8	11200.6	11093.1	10054.1	9100.2	8240.4	7797.0	7743.3
60°	5571.2	5701.1	6180.3	7255.1	8428.4	8482.2	7452.1	6632.5	5629.4	5235.3	5329.3
62.5°	2181.0	2069.0	2369.1	3170.7	3976.8	4156.0	3766.3	3130.5	2570.6	2181.0	2154.1
65°	506.0	492.7	555.3	765.8	1070.3	1240.6	1177.8	846.5	622.5	591.1	546.4
67.5°	286.6	286.6	273.2	273.2	300.1	318.0	304.5	300.1	313.5	326.9	322.4
70°	201.5	197.0	188.1	192.6	183.6	183.6	197.0	219.4	237.3	237.3	241.9
72.5°	120.9	120.9	120.9	134.4	134.4	134.4	147.8	165.7	170.2	165.7	161.2
75°	53.7	53.7	62.7	76.1	85.1	89.6	103.0	111.9	120.9	111.9	103.0
77.5°	13.5	13.5	22.4	31.4	40.3	49.3	67.2	80.7	85.1	80.7	67.2
80°	4.5	4.5	9.0	22.4	40.3	49.3	67.2	71.7	76.1	67.2	53.7
82.5°	4.5	4.5	9.0	22.4	31.4	40.3	53.7	62.7	67.2	58.2	53.7
85°	0.0	4.5	9.0	17.9	26.9	35.8	35.8	26.9	22.4	13.5	17.9
87.5°	0.0	0.0	4.5	4.5	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)