

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: P456396

Luminaire Tested: **GALN-SA7C-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40812 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

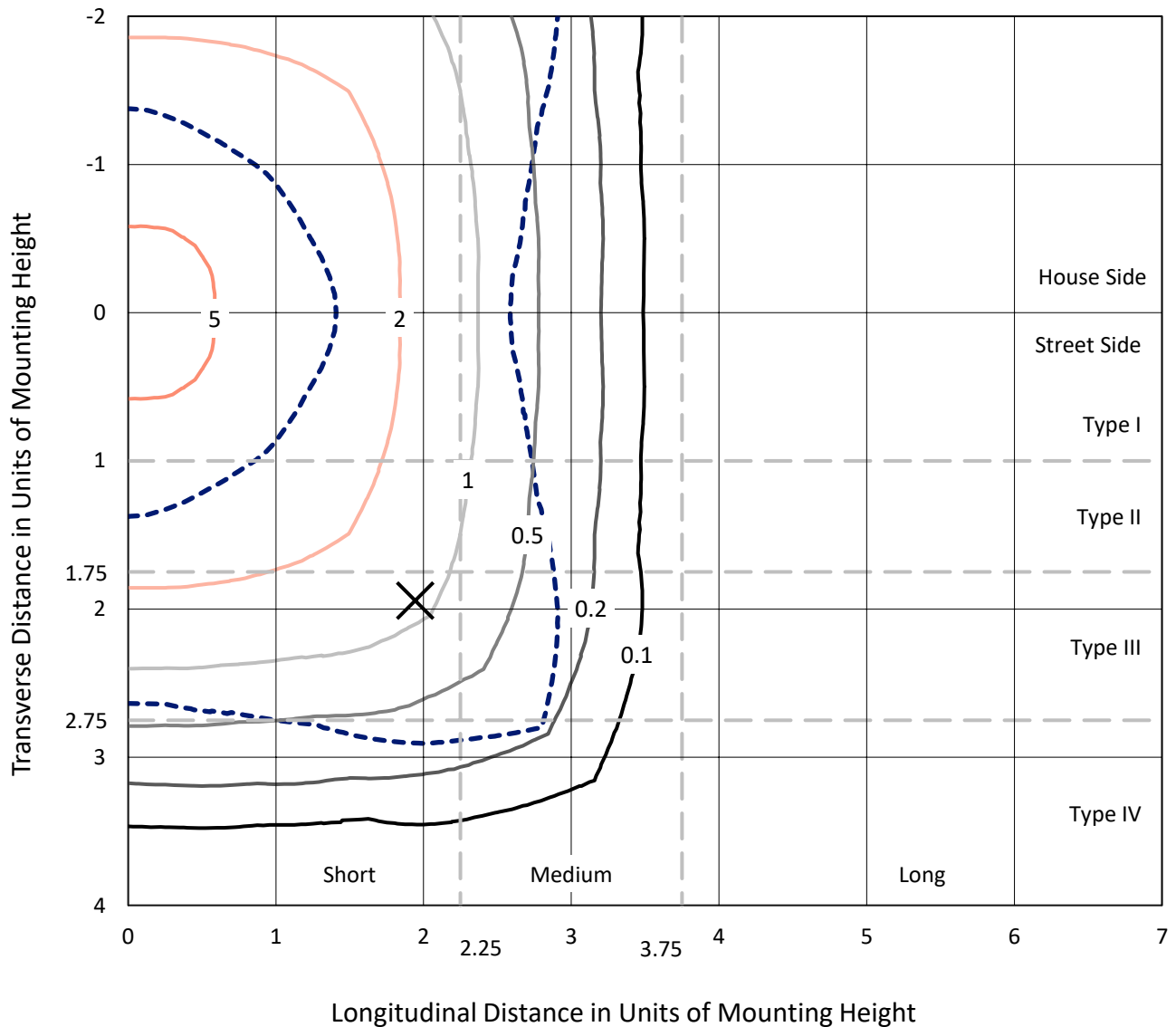
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

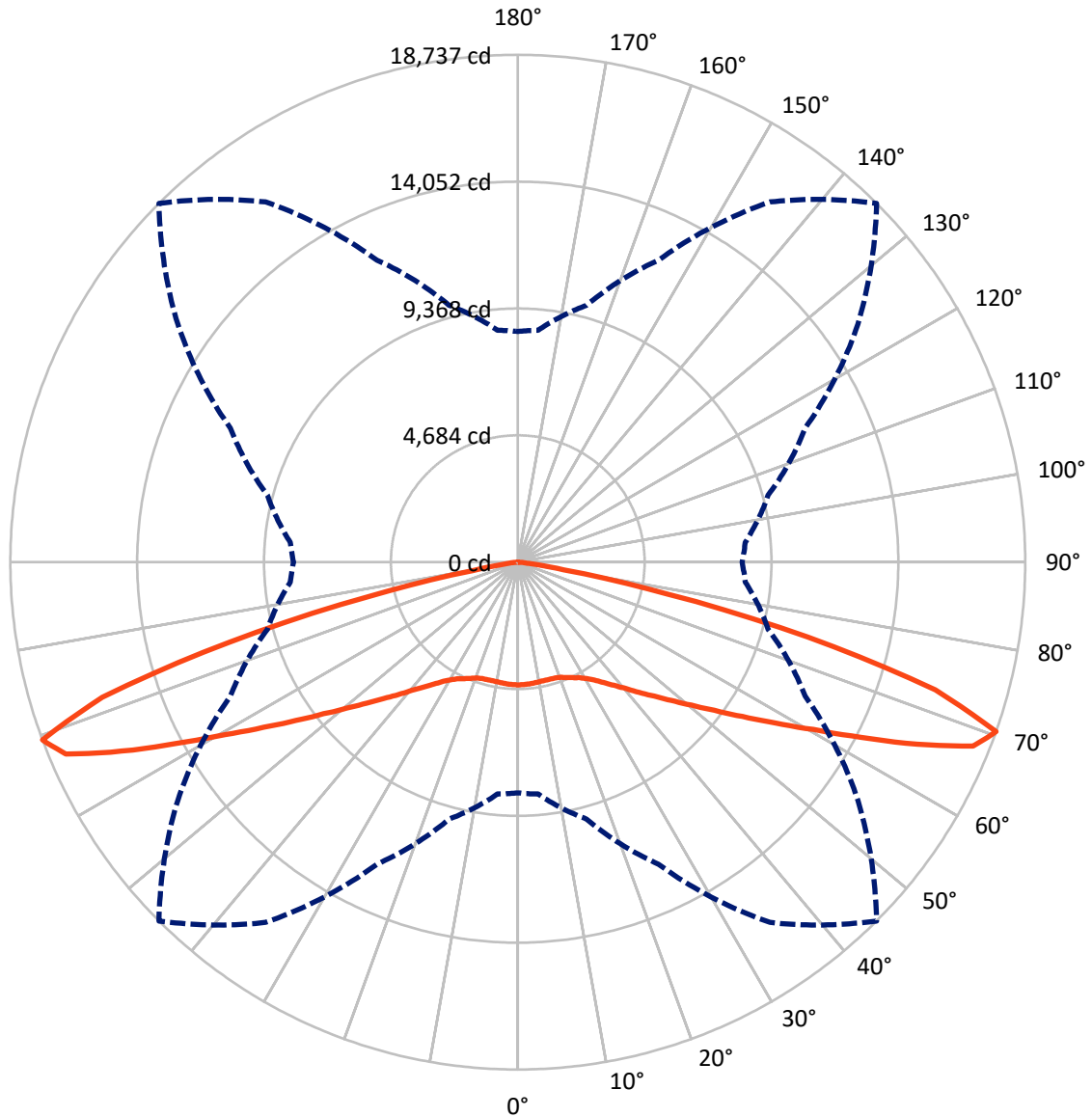
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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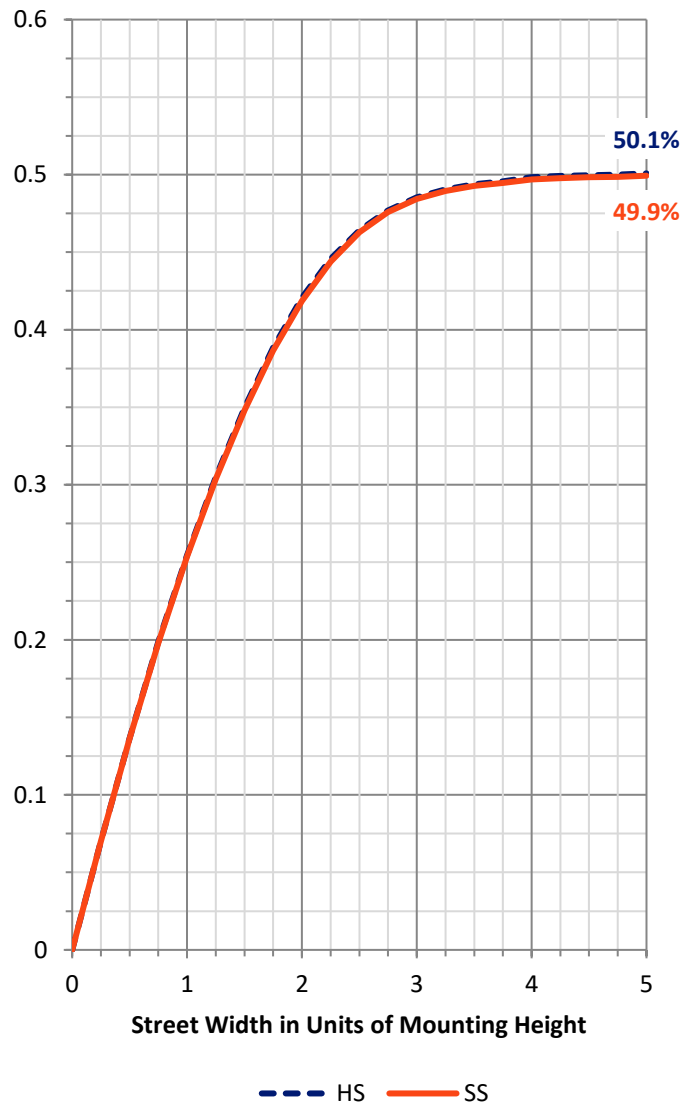
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20406.0	0.0	20406.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20406.0	0.0	20406.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40812.0	0.0	40812.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.8	1.1
10°-20°	1261.1	3.1
20°-30°	2156.9	5.3
30°-40°	3423.4	8.4
40°-50°	5522.9	13.5
50°-60°	8985.9	22.0
60°-70°	13026.2	31.9
70°-80°	5778.0	14.2
80°-90°	227.9	0.6
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°	40812.0	100.0
0°-180°	40812.0	100.0



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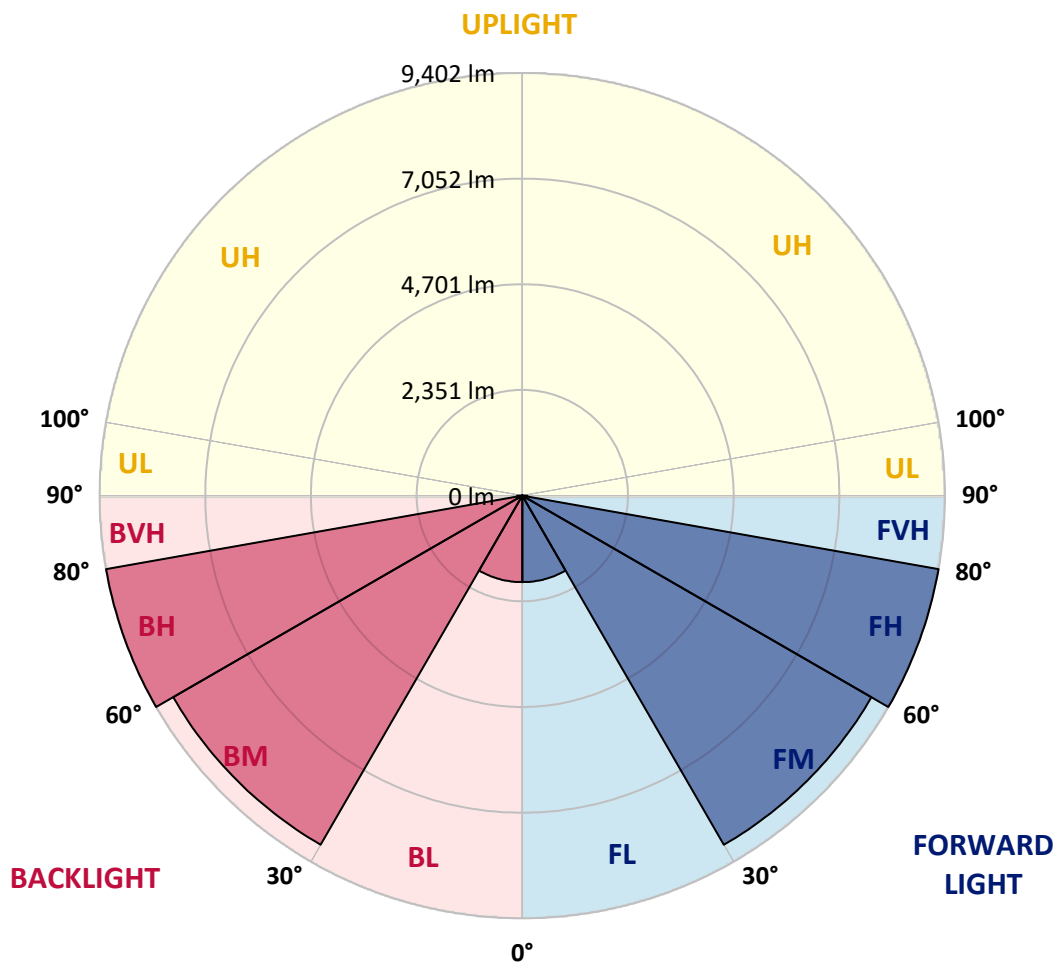
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1923.9	4.7			
FM (30°-60°)	8966.1	22.0			
FH (60°-80°)	9402.1	23.0			G4/12000
FVH (80°-90°)	113.9	0.3			G2/225
BL (0°-30°)	1923.9	4.7	B3/2500		
BM (30°-60°)	8966.1	22.0	B5		
BH (60°-80°)	9402.1	23.0	B5		G4/12000
BVH (80°-90°)	113.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0	4532.0
2.5°	4532.0	4536.3	4529.8	4525.5	4523.4	4523.4	4521.2	4523.4	4536.3	4538.4	4532.0
5°	4519.1	4523.4	4521.2	4516.9	4514.8	4514.8	4512.6	4510.5	4521.2	4525.5	4523.4
7.5°	4501.9	4504.0	4501.9	4499.7	4501.9	4499.7	4493.3	4489.0	4497.6	4497.6	4495.4
10°	4471.8	4476.1	4473.9	4476.1	4480.4	4480.4	4471.8	4463.2	4465.3	4461.0	4461.0
12.5°	4435.2	4441.6	4443.8	4452.4	4463.2	4476.1	4456.7	4437.3	4433.0	4430.9	4428.7
15°	4411.5	4418.0	4426.6	4435.2	4454.5	4482.5	4454.5	4424.4	4415.8	4407.2	4402.9
17.5°	4405.1	4413.7	4426.6	4439.5	4465.3	4493.3	4469.6	4439.5	4418.0	4405.1	4400.8
20°	4422.3	4428.7	4448.1	4471.8	4508.3	4536.3	4512.6	4480.4	4448.1	4428.7	4422.3
22.5°	4456.7	4467.5	4491.1	4534.1	4585.8	4626.6	4594.4	4540.6	4489.0	4463.2	4454.5
25°	4532.0	4540.6	4568.5	4626.6	4686.8	4725.6	4691.1	4628.8	4557.8	4523.4	4512.6
27.5°	4646.0	4658.9	4689.0	4757.8	4807.3	4828.8	4805.1	4762.1	4710.5	4673.9	4665.3
30°	4807.3	4822.4	4867.5	4940.7	4972.9	4985.8	4975.1	4947.1	4910.5	4871.8	4863.2
32.5°	5024.5	5033.1	5084.8	5153.6	5183.7	5188.0	5175.1	5162.2	5102.0	5037.4	5033.1
35°	5267.6	5282.6	5345.0	5426.8	5454.7	5456.9	5431.1	5411.7	5340.7	5289.1	5289.1
37.5°	5590.2	5596.7	5656.9	5749.4	5779.5	5770.9	5758.0	5740.8	5665.5	5598.8	5601.0
40°	5968.8	5981.7	6033.3	6140.9	6140.9	6130.1	6138.7	6125.8	6050.5	5986.0	5988.2
42.5°	6418.3	6424.8	6487.2	6601.2	6592.6	6571.0	6579.7	6562.4	6515.1	6442.0	6416.2
45°	6898.0	6923.8	7031.3	7141.0	7123.8	7055.0	7089.4	7085.1	7042.1	6932.4	6938.9
47.5°	7476.6	7519.6	7622.8	7754.1	7734.7	7627.1	7665.9	7691.7	7631.5	7511.0	7489.5
50°	8128.3	8156.3	8309.0	8431.6	8414.4	8300.4	8388.6	8392.9	8242.3	8072.4	8072.4
52.5°	8823.1	8851.0	9057.5	9248.9	9259.7	9094.1	9165.1	9160.8	8915.5	8691.9	8648.8
55°	9601.7	9614.6	9881.3	10163.1	10223.3	10062.0	10070.6	9984.6	9666.2	9406.0	9382.3
57.5°	10406.1	10453.5	10748.1	11113.8	11292.3	11193.4	11148.2	10918.1	10610.5	10311.5	10296.4
60°	11296.6	11298.8	11681.6	12114.0	12475.3	12542.0	12357.0	12049.4	11651.5	11255.7	11238.5
62.5°	11913.9	12006.4	12490.4	13221.7	13869.1	14243.4	13755.1	13109.8	12326.9	11688.1	11623.6
65°	12040.8	12103.2	12841.0	14079.9	15402.7	16209.3	15080.1	13707.8	12372.1	11520.3	11477.3
67.5°	11014.8	11081.5	12075.2	13976.7	16478.2	18132.2	15940.4	13419.6	11606.3	10552.4	10468.5
70°	8519.8	8595.1	9823.2	12303.2	16239.4	18736.6	15327.4	11705.3	9571.6	8433.7	8281.0
72.5°	4529.8	4807.3	5856.9	8444.5	13180.8	16131.9	12567.8	8541.3	6173.1	5046.0	4843.9
75°	1654.1	1688.5	2273.5	3744.7	7668.0	11062.2	7962.7	4073.8	2342.3	1808.9	1716.4
77.5°	684.0	681.8	748.5	1131.4	2785.4	5665.5	3108.1	1195.9	746.4	690.4	681.8
80°	404.4	404.4	445.2	471.1	733.5	1710.0	819.5	533.4	447.4	408.7	415.1
82.5°	180.7	191.4	281.8	296.8	354.9	468.9	395.8	339.8	292.5	202.2	182.8
85°	98.9	86.0	148.4	154.9	169.9	174.2	187.1	185.0	169.9	98.9	101.1
87.5°	19.4	23.7	43.0	32.3	36.6	32.3	43.0	60.2	62.4	34.4	28.0
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)