

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: P651987

Luminaire Tested: **GALN-SA7A-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24128.3 lumens
Efficiency: N/A
Efficacy: 112.2 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

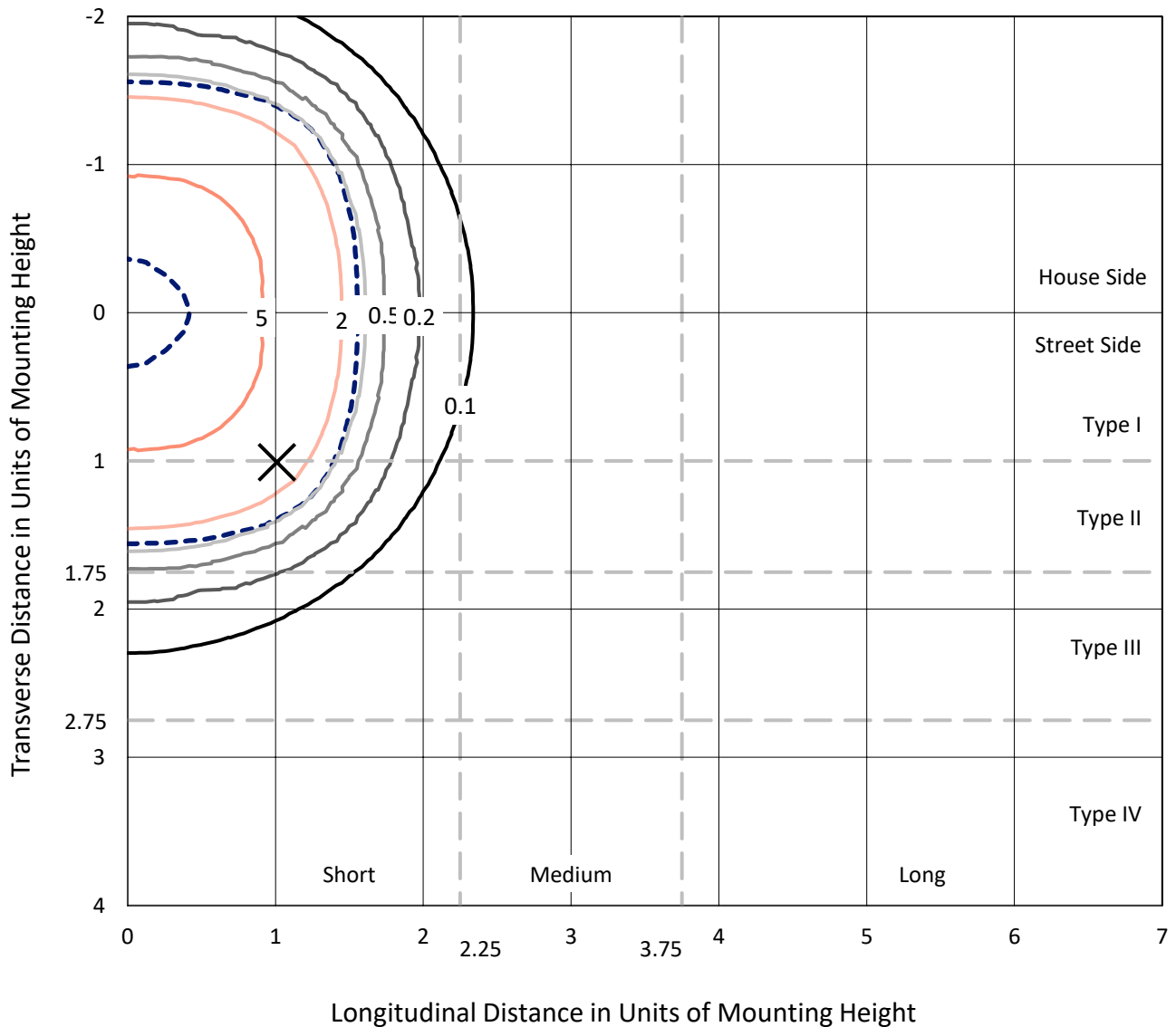
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

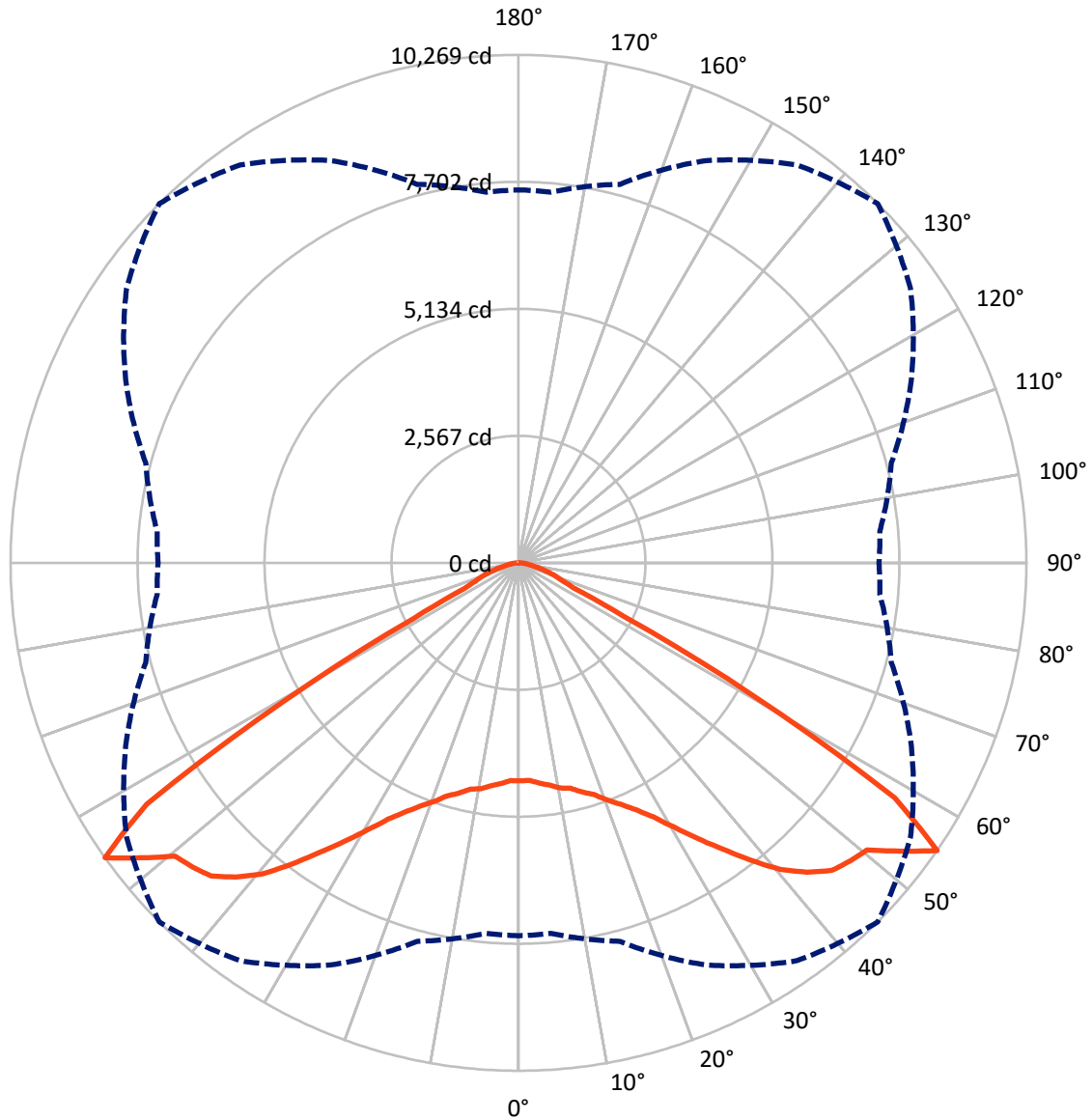
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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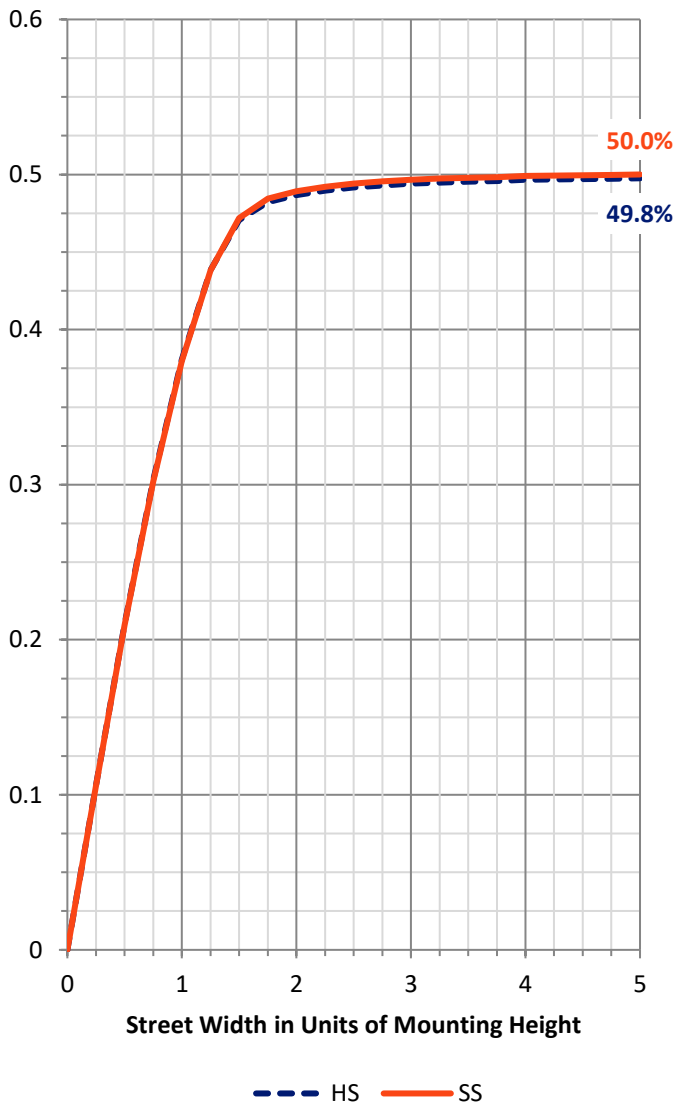
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12064.1	0.0	12064.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12064.1	0.0	12064.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	24128.3	0.0	24128.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.4	1.8
10°-20°	1363.6	5.7
20°-30°	2542.8	10.5
30°-40°	4257.4	17.6
40°-50°	6624.8	27.5
50°-60°	6878.7	28.5
60°-70°	1458.7	6.0
70°-80°	480.4	2.0
80°-90°	91.5	0.4
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°	24128.3	100.0
0°-180°	24128.3	100.0

Coefficient of Utilization

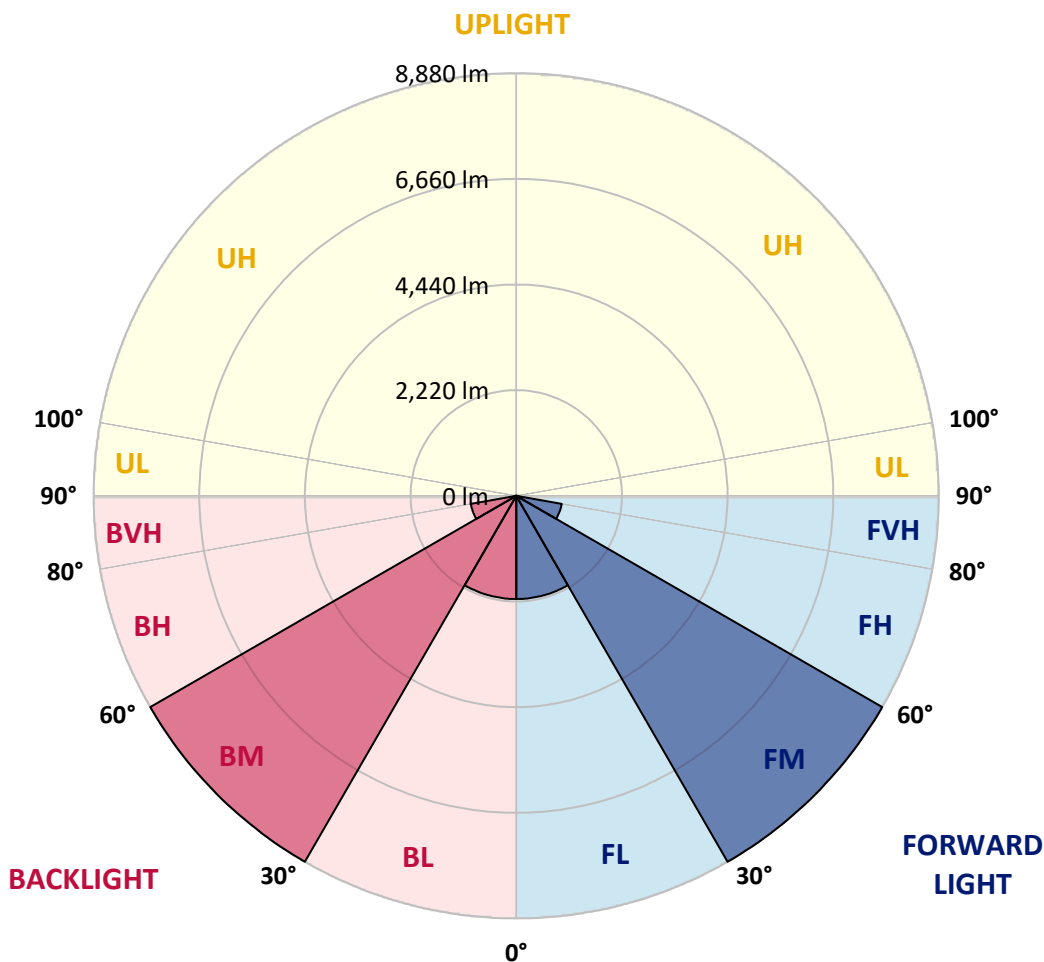


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2168.4	9.0			
FM (30°-60°)	8880.4	36.8			
FH (60°-80°)	969.6	4.0			G1/1800
FVH (80°-90°)	45.7	0.2			G1/100
BL (0°-30°)	2168.4	9.0	B3/2500		
BM (30°-60°)	8880.4	36.8	B5		
BH (60°-80°)	969.6	4.0	B2/1000		G1/1800
BVH (80°-90°)	45.7	0.2			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°	4405.5	4405.5	4405.5	4405.5	4405.5	4405.5	4405.5	4405.5	4405.5	4405.5	4405.5
2.5°	4458.0	4437.5	4402.6	4428.8	4449.2	4405.5	4423.0	4431.7	4425.8	4402.6	4411.3
5°	4522.1	4510.5	4481.3	4501.7	4475.5	4475.5	4458.0	4434.6	4469.6	4463.8	4478.3
7.5°	4522.1	4507.5	4565.8	4527.9	4539.5	4539.5	4510.5	4487.1	4504.6	4478.3	4463.8
10°	4612.5	4632.9	4606.7	4615.4	4609.5	4630.0	4586.2	4571.7	4557.0	4548.3	4530.8
12.5°	4720.4	4705.7	4714.5	4708.7	4729.1	4676.6	4650.4	4618.3	4644.5	4606.7	4632.9
15°	4807.8	4799.1	4807.8	4831.1	4810.8	4807.8	4761.2	4729.1	4688.2	4697.0	4656.2
17.5°	4927.3	4918.6	4921.5	4942.0	4939.0	4924.5	4889.5	4828.3	4813.6	4790.3	4764.1
20°	5105.2	5090.7	5084.8	5093.5	5108.1	5119.8	5049.8	5026.5	4977.0	4939.0	4895.3
22.5°	5256.8	5251.0	5274.3	5236.4	5268.4	5303.4	5236.4	5224.7	5102.3	5081.9	5035.2
25°	5466.8	5458.0	5443.5	5498.8	5536.7	5533.8	5469.7	5405.5	5312.2	5288.9	5288.9
27.5°	5688.4	5638.7	5714.6	5729.1	5796.2	5816.6	5761.2	5667.9	5580.5	5530.9	5542.5
30°	5965.3	5918.6	5936.1	6041.2	6128.6	6204.4	6064.5	5927.4	5804.9	5717.5	5702.9
32.5°	6242.3	6195.6	6248.1	6350.1	6525.1	6638.9	6501.8	6262.7	6119.9	5991.5	6017.8
35°	6466.8	6501.8	6586.3	6740.9	6921.6	7105.3	6886.6	6702.9	6498.8	6356.0	6376.4
37.5°	6828.3	6936.2	7003.3	7181.1	7437.7	7627.2	7399.8	7160.7	6942.0	6755.4	6691.3
40°	7300.6	7373.6	7449.3	7659.2	7962.5	8152.0	7936.3	7624.3	7408.5	7216.1	7207.4
42.5°	7819.6	7889.6	7968.3	8224.9	8405.6	8548.5	8350.3	8184.1	7945.0	7793.4	7784.6
45°	8423.1	8373.6	8461.0	8630.2	8781.8	8875.1	8746.8	8665.2	8493.1	8353.1	8338.6
47.5°	8825.5	8781.8	8939.2	9090.8	9114.2	9012.1	9038.3	9114.2	8933.4	8703.1	8775.9
50°	9058.7	9058.7	9163.7	9303.6	9259.9	9128.7	9335.8	9341.6	9160.8	8956.7	8956.7
52.5°	8653.5	8743.9	9041.3	9499.0	9644.8	9682.7	9636.0	9437.8	8965.5	8548.5	8528.2
55°	7539.7	7519.3	7921.7	8971.3	9819.8	10268.7	9673.9	8761.4	7802.1	7332.8	7286.1
57.5°	4904.0	4927.3	5528.0	6598.0	8128.7	8965.5	7962.5	6679.6	5528.0	4880.7	4942.0
60°	2207.1	2285.8	2650.2	3449.1	4764.1	5446.3	4775.8	3624.1	2781.4	2414.1	2446.2
62.5°	1268.3	1282.9	1297.4	1539.5	2029.2	2399.5	2108.0	1626.9	1434.5	1370.3	1370.3
65°	1070.0	1061.3	1064.2	1084.6	1137.1	1212.9	1180.8	1137.1	1142.9	1137.1	1128.4
67.5°	909.6	921.3	912.6	927.1	930.1	941.8	962.2	979.7	982.5	988.4	982.5
70°	746.4	749.3	755.1	766.8	769.7	778.4	807.6	822.2	830.9	830.9	842.6
72.5°	571.5	568.5	574.4	586.0	600.6	603.5	629.7	650.2	661.9	647.2	650.2
75°	376.1	379.0	387.8	396.5	417.0	437.3	446.1	466.5	469.4	475.2	460.7
77.5°	224.5	230.3	239.1	256.6	274.1	291.6	311.9	326.6	332.4	326.6	309.1
80°	145.7	145.7	157.4	172.0	192.4	207.0	218.7	230.3	239.1	230.3	224.5
82.5°	90.4	90.4	105.0	122.4	137.0	145.7	163.2	177.9	186.6	180.7	172.0
85°	46.7	49.5	61.2	75.8	87.5	93.3	90.4	81.7	72.9	70.0	64.2
87.5°	14.5	14.5	17.5	17.5	14.5	14.5	17.5	14.5	17.5	17.5	17.5
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)