

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: P648027

Luminaire Tested: **GALN-SA7A-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648027
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-835-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 22464.3 lumens
Efficiency: N/A
Efficacy: 104.5 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

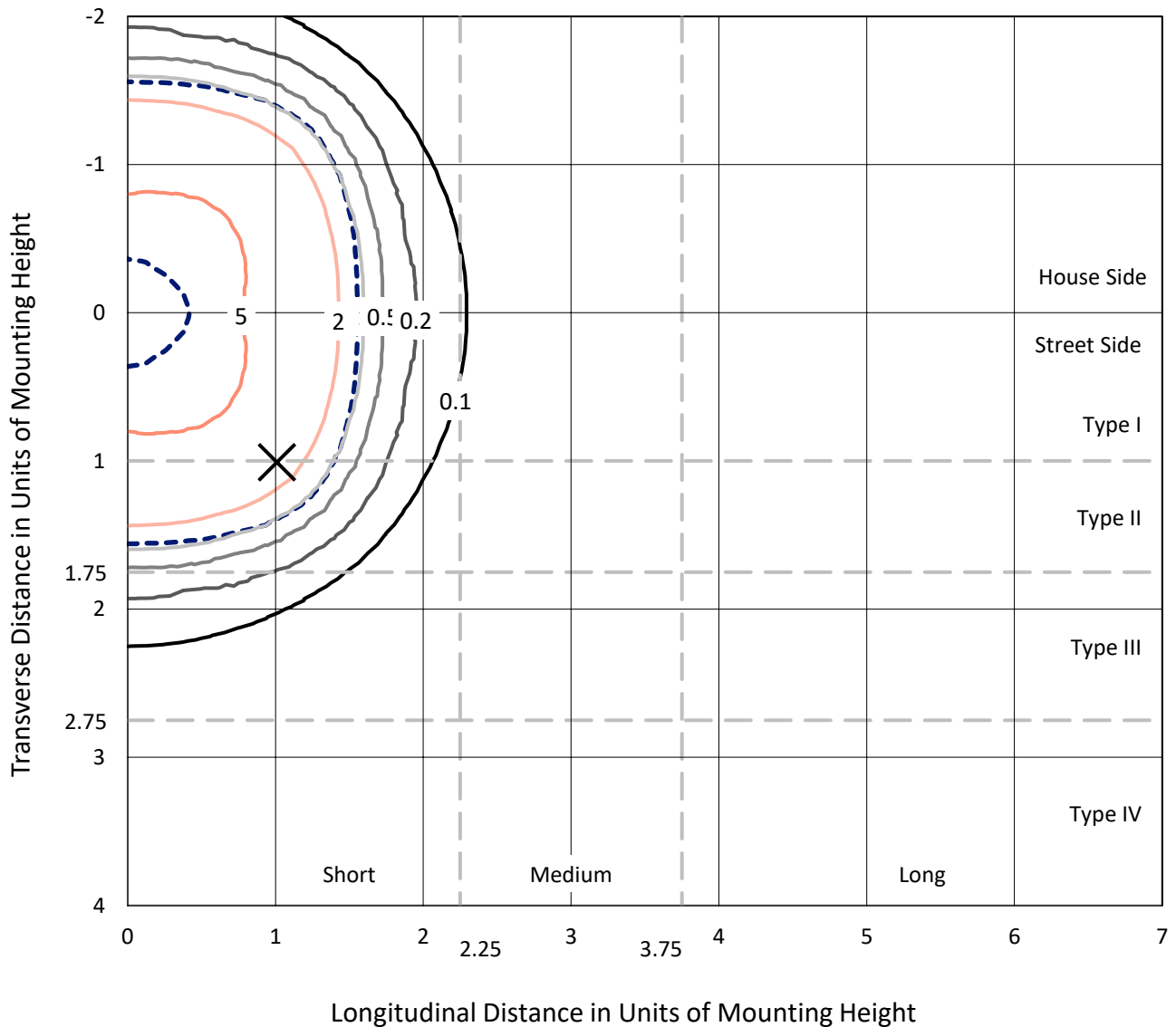
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

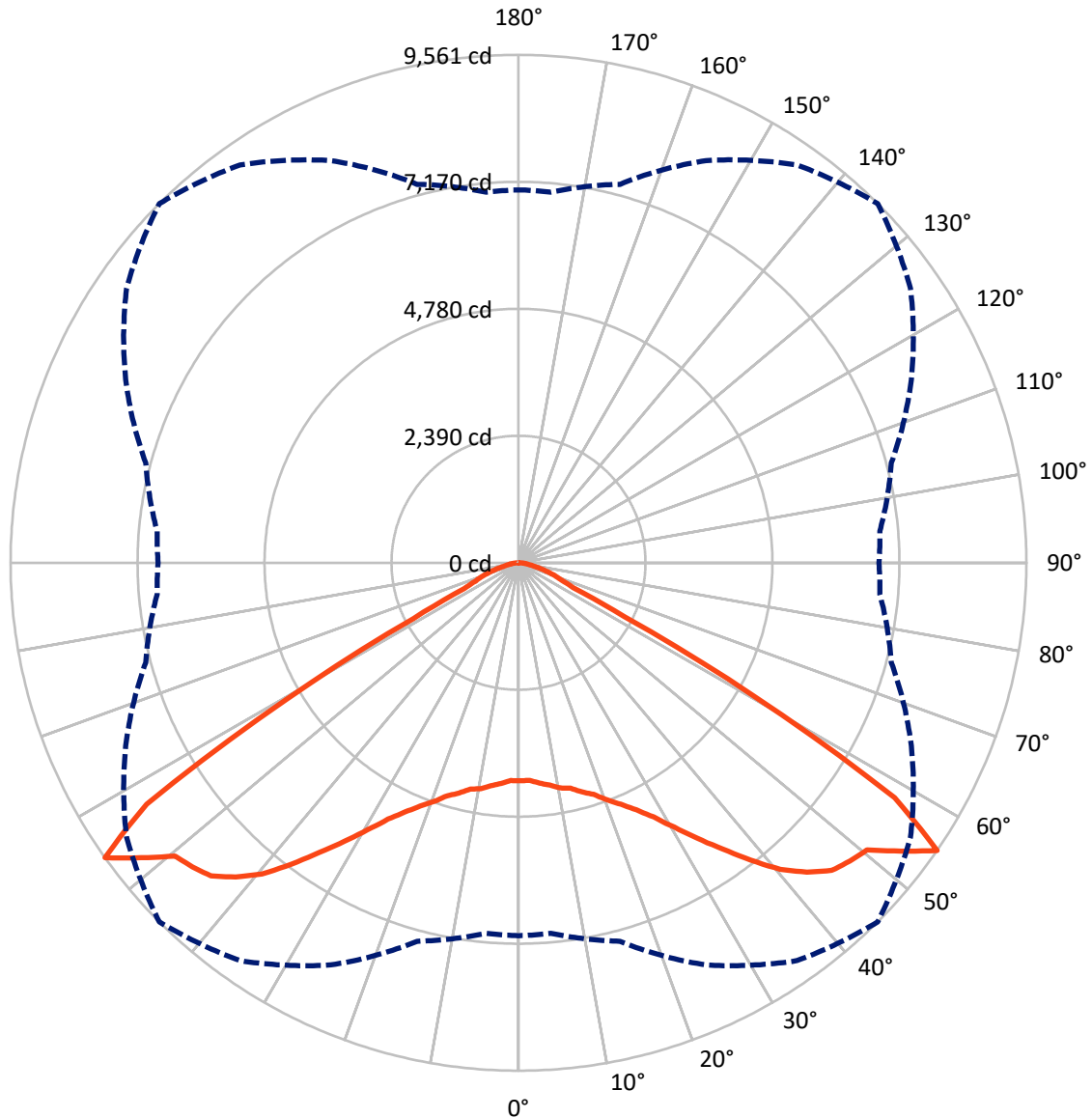
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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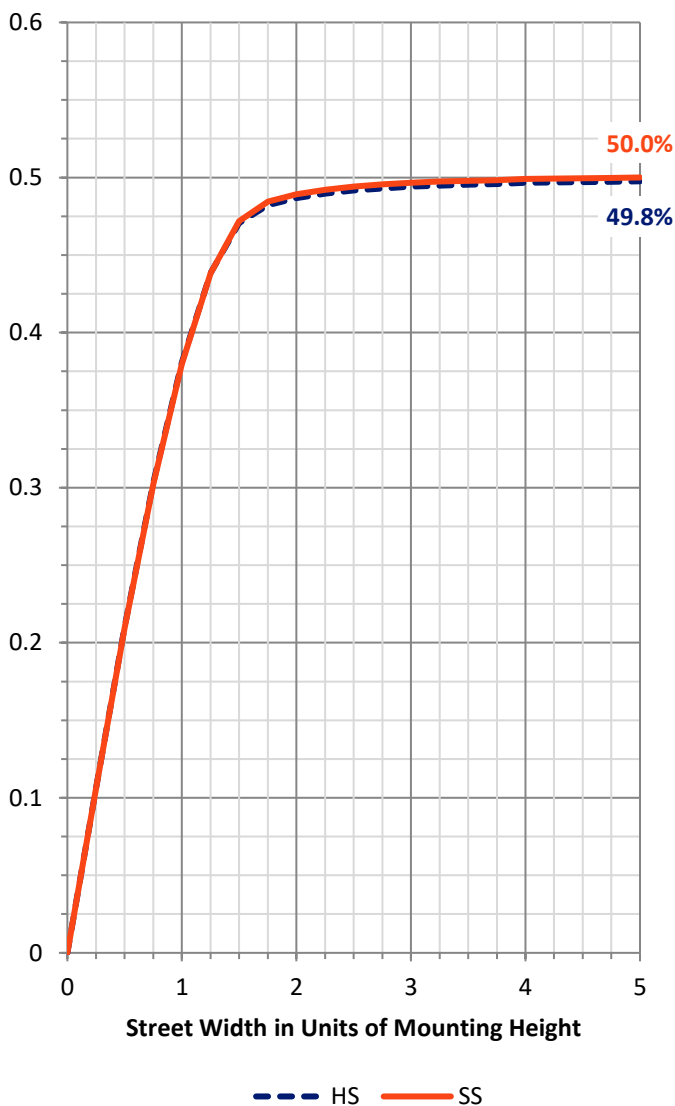
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11232.1	0.0	11232.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11232.1	0.0	11232.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	22464.3	0.0	22464.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.7	1.8
10°-20°	1269.6	5.7
20°-30°	2367.4	10.5
30°-40°	3963.8	17.6
40°-50°	6168.0	27.5
50°-60°	6404.3	28.5
60°-70°	1358.1	6.0
70°-80°	447.3	2.0
80°-90°	85.2	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°	22464.3	100.0
0°-180°	22464.3	100.0

Coefficient of Utilization



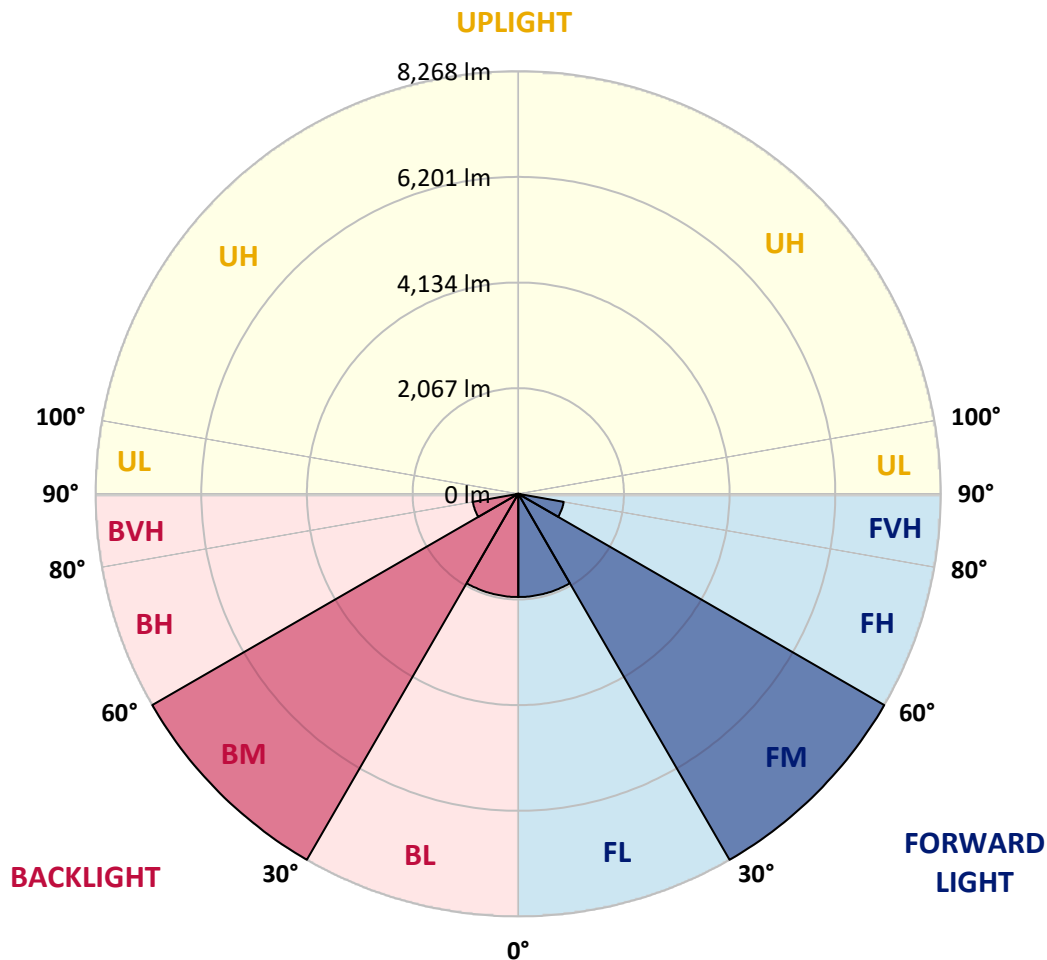
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2018.8	9.0			
FM (30°-60°)	8268.0	36.8			
FH (60°-80°)	902.7	4.0			G1/1800
FVH (80°-90°)	42.6	0.2			G1/100
BL (0°-30°)	2018.8	9.0	B3/2500		
BM (30°-60°)	8268.0	36.8	B4/8500		
BH (60°-80°)	902.7	4.0	B2/1000		G1/1800
BVH (80°-90°)	42.6	0.2			G1/100
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°	4101.7	4101.7	4101.7	4101.7	4101.7	4101.7	4101.7	4101.7	4101.7	4101.7	4101.7
2.5°	4150.5	4131.5	4098.9	4123.4	4142.4	4101.7	4118.0	4126.1	4120.6	4098.9	4107.1
5°	4210.2	4199.4	4172.2	4191.2	4166.8	4166.8	4150.5	4128.8	4161.3	4155.9	4169.5
7.5°	4210.2	4196.6	4250.9	4215.7	4226.5	4226.5	4199.4	4177.6	4193.9	4169.5	4155.9
10°	4294.4	4313.4	4289.0	4297.1	4291.6	4310.6	4269.9	4256.4	4242.8	4234.6	4218.3
12.5°	4394.8	4381.2	4389.3	4383.9	4403.0	4354.1	4329.7	4299.8	4324.2	4289.0	4313.4
15°	4476.3	4468.1	4476.3	4497.9	4479.0	4476.3	4432.8	4403.0	4364.9	4373.1	4335.1
17.5°	4587.5	4579.4	4582.1	4601.1	4598.4	4584.9	4552.3	4495.3	4481.7	4460.0	4435.5
20°	4753.1	4739.6	4734.1	4742.2	4755.9	4766.7	4701.5	4679.8	4633.7	4598.4	4557.7
22.5°	4894.3	4888.8	4910.6	4875.3	4905.1	4937.7	4875.3	4864.4	4750.4	4731.4	4688.0
25°	5089.7	5081.6	5068.0	5119.6	5154.9	5152.1	5092.5	5032.7	4945.8	4924.1	4924.1
27.5°	5296.1	5249.9	5320.5	5334.0	5396.4	5415.5	5363.9	5277.0	5195.6	5149.5	5160.3
30°	5553.9	5510.4	5526.7	5624.5	5706.0	5776.5	5646.2	5518.6	5404.6	5323.1	5309.6
32.5°	5811.8	5768.4	5817.2	5912.2	6075.1	6181.0	6053.4	5830.8	5697.8	5578.3	5602.8
35°	6020.8	6053.4	6132.1	6276.0	6444.2	6615.3	6411.7	6240.7	6050.6	5917.7	5936.6
37.5°	6357.4	6457.9	6520.3	6685.9	6924.8	7101.2	6889.5	6666.9	6463.3	6289.5	6229.9
40°	6797.1	6865.0	6935.6	7131.0	7413.4	7589.8	7388.9	7098.4	6897.6	6718.5	6710.3
42.5°	7280.3	7345.5	7418.8	7657.7	7825.9	7959.0	7774.4	7619.7	7397.1	7255.9	7247.8
45°	7842.2	7796.1	7877.5	8035.0	8176.2	8263.0	8143.6	8067.6	7907.4	7777.1	7763.5
47.5°	8216.9	8176.2	8322.7	8463.8	8485.6	8390.5	8415.0	8485.6	8317.3	8102.9	8170.7
50°	8434.0	8434.0	8531.7	8662.0	8621.3	8499.2	8691.9	8697.3	8529.1	8339.0	8339.0
52.5°	8056.7	8140.9	8417.7	8843.9	8979.6	9014.9	8971.5	8786.9	8347.2	7959.0	7940.0
55°	7019.8	7000.7	7375.4	8352.6	9142.5	9560.5	9006.8	8157.1	7264.0	6827.1	6783.6
57.5°	4565.8	4587.5	5146.7	6142.9	7568.1	8347.2	7413.4	6219.0	5146.7	4544.1	4601.1
60°	2054.9	2128.2	2467.5	3211.2	4435.5	5070.7	4446.4	3374.2	2589.6	2247.6	2277.5
62.5°	1180.8	1194.4	1207.9	1433.3	1889.3	2234.1	1962.6	1514.7	1335.6	1275.8	1275.8
65°	996.2	988.1	990.8	1009.8	1058.7	1129.2	1099.4	1058.7	1064.1	1058.7	1050.6
67.5°	846.9	857.8	849.6	863.2	865.9	876.8	895.8	912.1	914.8	920.3	914.8
70°	694.9	697.7	703.1	713.9	716.6	724.7	751.9	765.5	773.6	773.6	784.5
72.5°	532.0	529.3	534.8	545.6	559.2	561.9	586.3	605.3	616.2	602.6	605.3
75°	350.2	352.9	361.0	369.2	388.2	407.2	415.3	434.3	437.1	442.5	428.9
77.5°	209.0	214.5	222.6	238.9	255.2	271.5	290.4	304.0	309.4	304.0	287.8
80°	135.7	135.7	146.6	160.1	179.2	192.7	203.6	214.5	222.6	214.5	209.0
82.5°	84.2	84.2	97.7	114.0	127.6	135.7	152.0	165.6	173.7	168.3	160.1
85°	43.5	46.1	57.0	70.5	81.4	86.8	84.2	76.0	67.9	65.1	59.7
87.5°	13.5	13.5	16.3	16.3	13.5	13.5	16.3	13.5	16.3	16.3	16.3
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)