

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: P651988

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27956.5 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

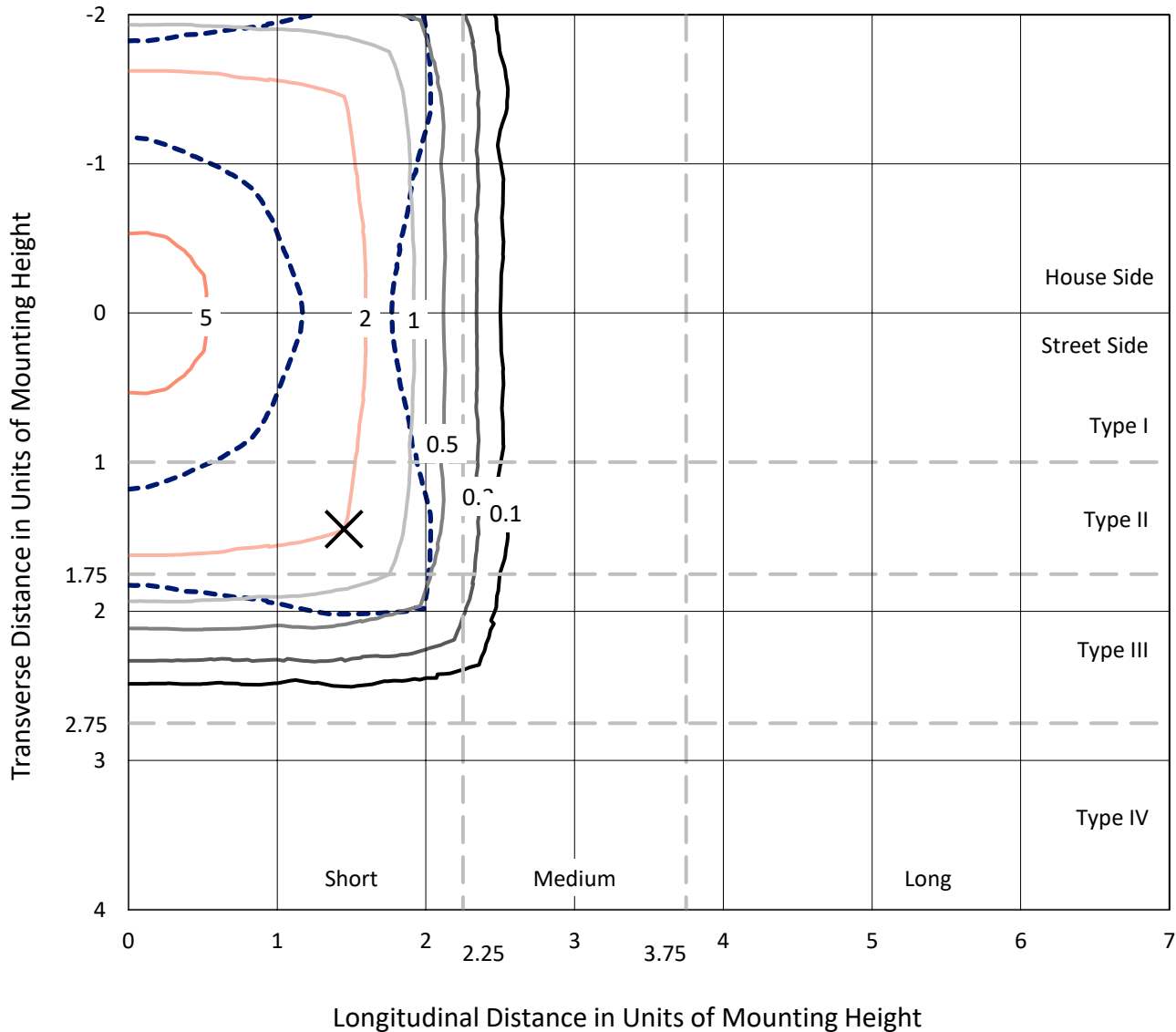
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

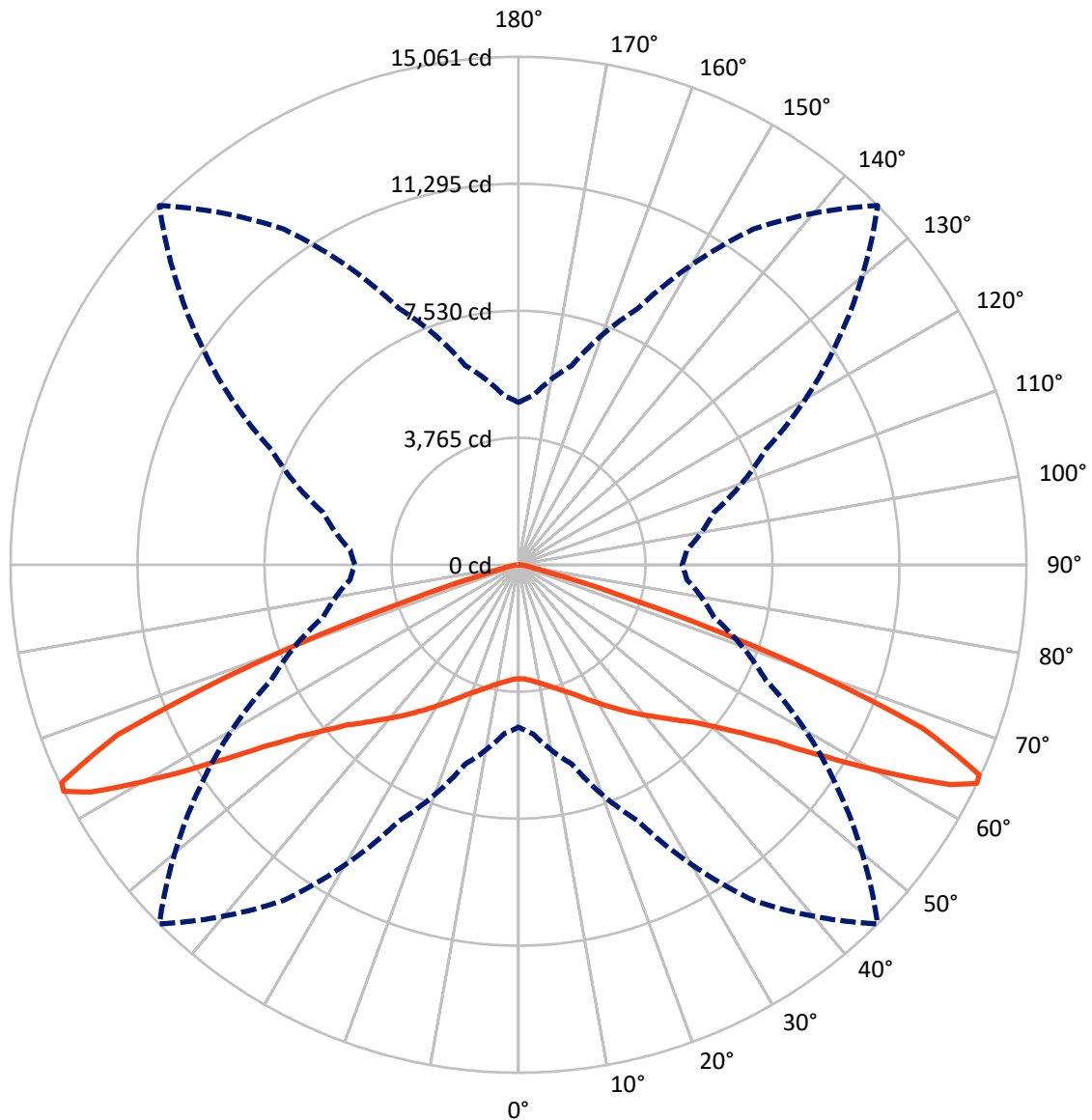
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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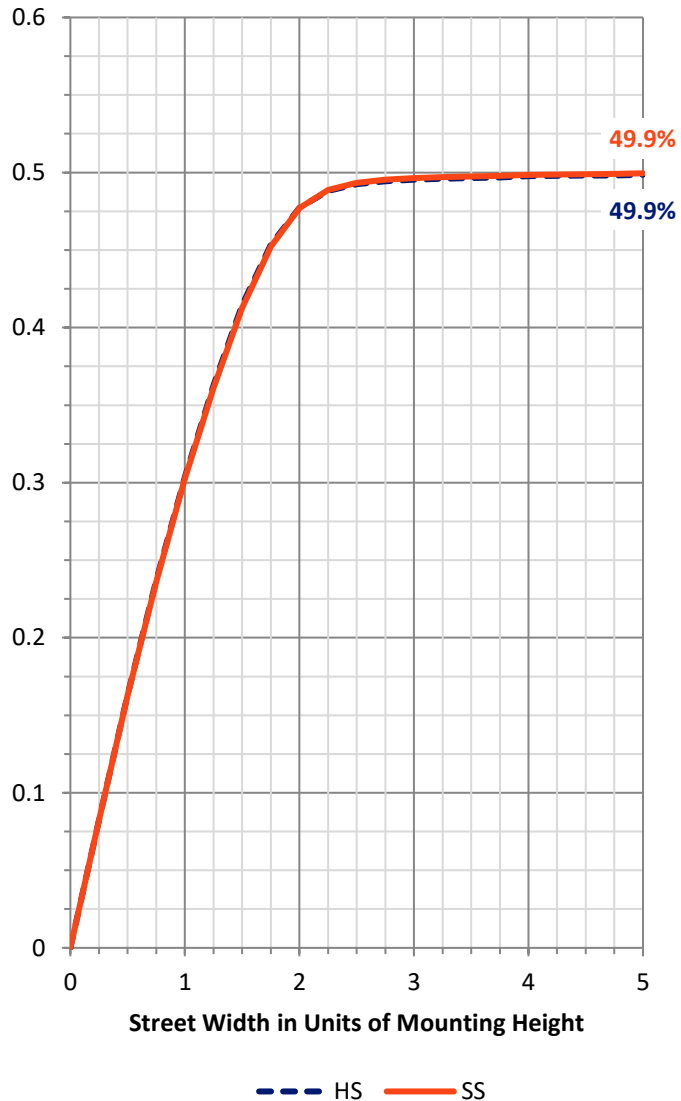
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13978.2	0.0	13978.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13978.2	0.0	13978.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	27956.5	0.0	27956.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.0	1.2
10°-20°	1070.8	3.8
20°-30°	2023.5	7.2
30°-40°	3351.2	12.0
40°-50°	5231.7	18.7
50°-60°	8088.1	28.9
60°-70°	6974.3	24.9
70°-80°	790.4	2.8
80°-90°	94.7	0.3
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°	27956.5	100.0
0°-180°	27956.5	100.0

Coefficient of Utilization



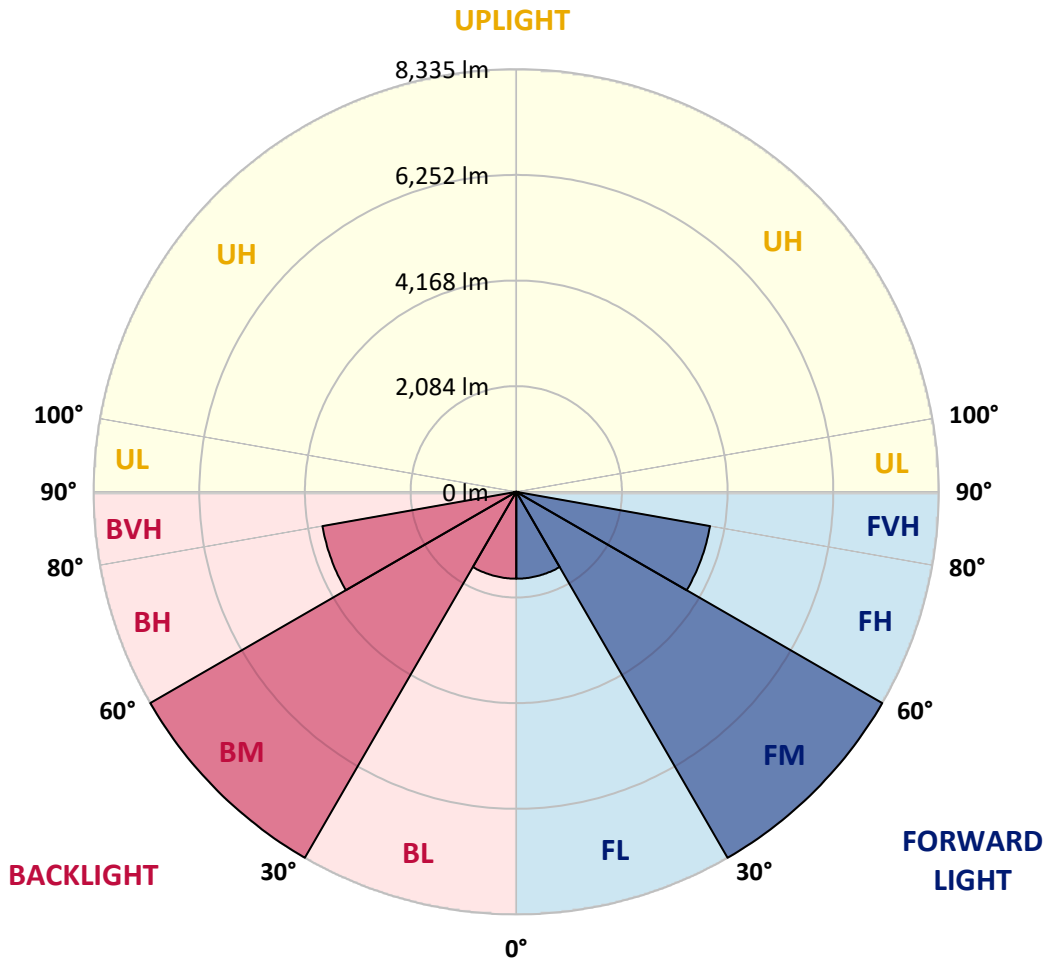
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1713.1	6.1			
FM (30°-60°)	8335.5	29.8			
FH (60°-80°)	3882.3	13.9			G2/5000
FVH (80°-90°)	47.3	0.2			G1/100
BL (0°-30°)	1713.1	6.1	B3/2500		
BM (30°-60°)	8335.5	29.8	B4/8500		
BH (60°-80°)	3882.3	13.9	B4/5000		G2/5000
BVH (80°-90°)	47.3	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3379.1	3379.1	3379.1	3379.1	3379.1	3379.1	3379.1	3379.1	3379.1	3379.1	3379.1
2.5°	3392.3	3399.7	3393.9	3392.3	3390.8	3390.8	3390.8	3392.3	3398.2	3402.7	3399.7
5°	3435.3	3441.2	3438.3	3436.7	3435.3	3436.7	3433.8	3432.3	3436.7	3436.7	3435.3
7.5°	3488.6	3496.0	3493.0	3496.0	3497.5	3499.0	3491.6	3485.6	3484.2	3488.6	3485.6
10°	3561.1	3567.1	3568.5	3570.0	3573.0	3571.5	3562.6	3552.3	3550.8	3549.3	3547.8
12.5°	3642.6	3647.0	3648.5	3654.4	3658.9	3660.4	3650.0	3641.1	3626.3	3629.3	3623.4
15°	3734.4	3743.3	3741.8	3750.7	3762.5	3765.5	3755.1	3740.3	3727.0	3719.6	3715.1
17.5°	3846.9	3852.9	3849.8	3858.8	3873.6	3881.0	3872.1	3852.9	3839.5	3823.3	3814.4
20°	3980.2	3990.5	3993.5	3993.5	4006.9	4014.3	4000.9	3995.0	3974.2	3962.5	3955.1
22.5°	4131.2	4135.7	4144.5	4153.4	4166.7	4163.8	4159.3	4150.5	4131.2	4120.9	4109.0
25°	4301.5	4305.9	4328.1	4347.4	4351.8	4348.9	4343.0	4338.6	4320.7	4297.1	4288.2
27.5°	4499.9	4508.8	4538.5	4556.2	4556.2	4557.6	4545.9	4560.7	4522.1	4494.0	4491.0
30°	4748.7	4754.6	4779.8	4797.6	4788.7	4781.3	4778.3	4793.1	4751.6	4701.3	4689.4
32.5°	4994.4	5015.2	5037.4	5075.9	5044.8	5031.5	5028.5	5038.9	4991.5	4935.2	4919.0
35°	5258.0	5272.9	5314.4	5346.9	5318.7	5287.7	5301.0	5333.5	5277.3	5201.8	5198.8
37.5°	5549.8	5563.0	5616.4	5650.4	5629.7	5576.4	5598.6	5637.1	5580.9	5487.6	5468.4
40°	5853.3	5881.4	5948.1	5983.6	5949.6	5878.5	5920.0	5961.4	5911.1	5803.0	5760.0
42.5°	6193.9	6238.3	6334.6	6352.3	6287.1	6190.9	6263.4	6330.1	6294.5	6170.2	6153.9
45°	6592.2	6618.8	6737.3	6775.8	6685.4	6565.5	6655.8	6777.3	6750.6	6607.0	6575.9
47.5°	7037.9	7063.1	7185.9	7243.7	7129.7	6968.3	7131.2	7289.6	7273.3	7119.3	7104.5
50°	7565.0	7570.9	7741.2	7806.4	7692.4	7553.2	7698.3	7895.2	7830.0	7633.2	7630.1
52.5°	8142.5	8149.9	8364.6	8490.5	8426.8	8269.9	8441.6	8561.5	8395.7	8138.1	8118.8
55°	8643.0	8680.0	8973.2	9307.9	9395.2	9281.2	9333.0	9276.7	8868.1	8506.8	8450.5
57.5°	8847.3	8919.9	9365.6	9990.5	10559.1	10727.9	10328.1	9792.0	9056.1	8545.2	8490.5
60°	8348.4	8426.8	9118.3	10304.4	11755.5	12488.4	11364.6	9879.4	8628.2	7910.0	7824.2
62.5°	6685.4	6707.6	7724.9	9565.4	12452.9	14351.2	11801.4	9134.6	7382.9	6407.1	6373.0
64°	4810.9	5038.9	6116.8	8386.8	12147.9	15060.5	11549.6	8090.7	5996.9	5009.3	4849.4
65°	3598.1	3660.4	4930.8	7162.3	11610.3	15007.1	11061.0	7092.7	4966.4	3833.6	3655.9
67.5°	1359.3	1366.7	1819.8	3570.0	8265.4	12912.0	8441.6	3858.8	2092.2	1513.3	1458.5
70°	564.1	574.5	667.8	1200.9	3552.3	8290.6	4070.5	1391.9	765.6	620.4	611.6
72.5°	413.1	419.1	447.2	533.0	1092.8	3404.2	1338.5	590.8	448.7	401.2	396.9
75°	324.3	327.2	348.0	392.4	509.4	943.2	556.7	405.7	342.0	308.0	305.0
77.5°	247.3	254.7	269.5	299.1	342.0	447.2	368.7	303.5	263.6	235.4	231.0
80°	170.3	179.1	207.3	219.2	229.5	290.2	251.7	229.5	205.8	171.7	161.4
82.5°	105.1	111.1	139.2	149.5	145.1	162.9	161.4	164.3	146.6	106.6	99.2
85°	54.7	57.8	75.5	78.5	72.6	66.6	82.9	96.2	90.3	60.7	59.2
87.5°	11.9	13.3	16.3	14.8	16.3	16.3	20.7	31.1	32.5	20.7	19.3
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)