

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: P652478

Luminaire Tested: **GALN-SA7B-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652478
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-SA7B-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA 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: 20004 lumens
Efficiency: N/A
Efficacy: 69.9 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

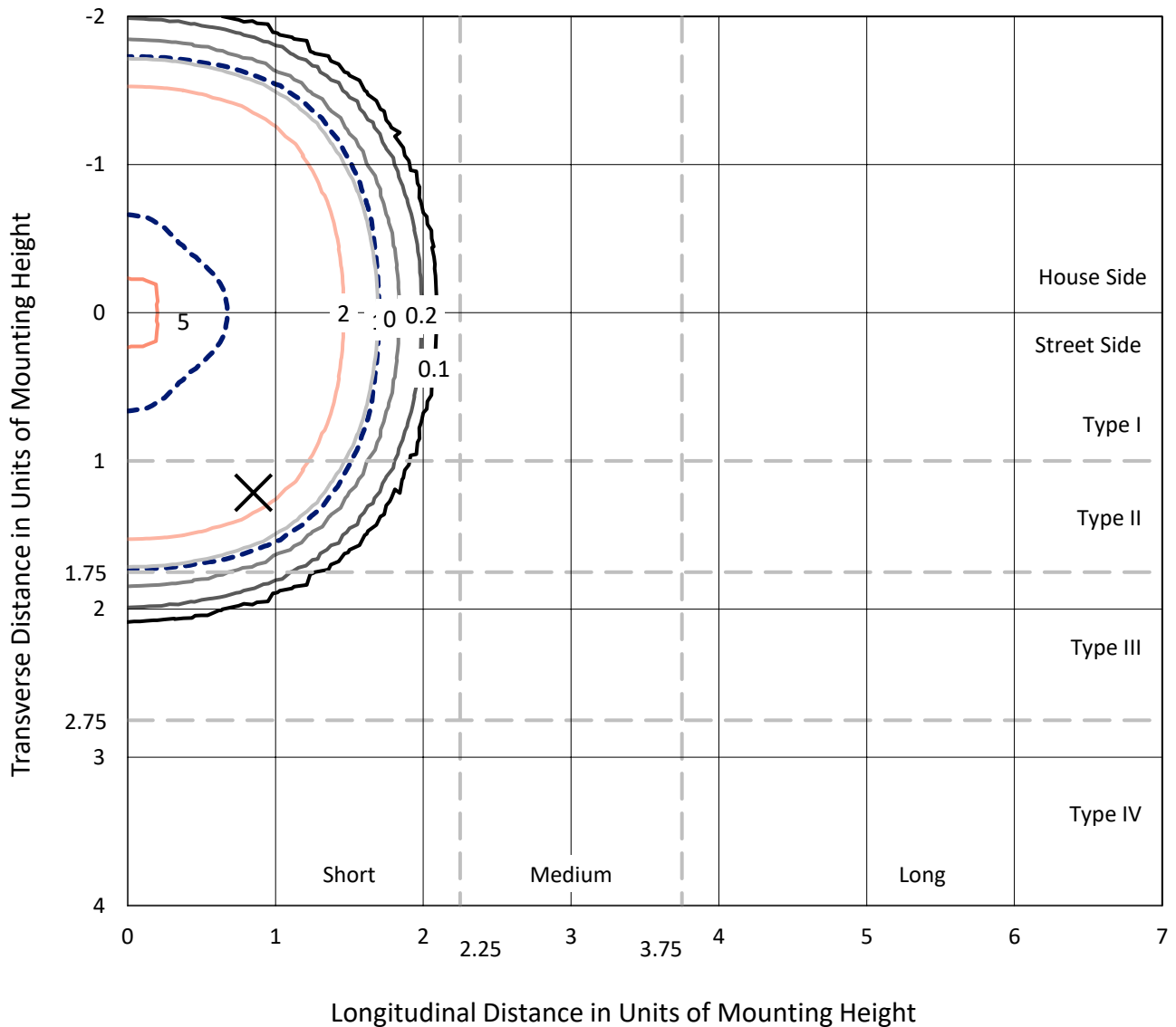
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

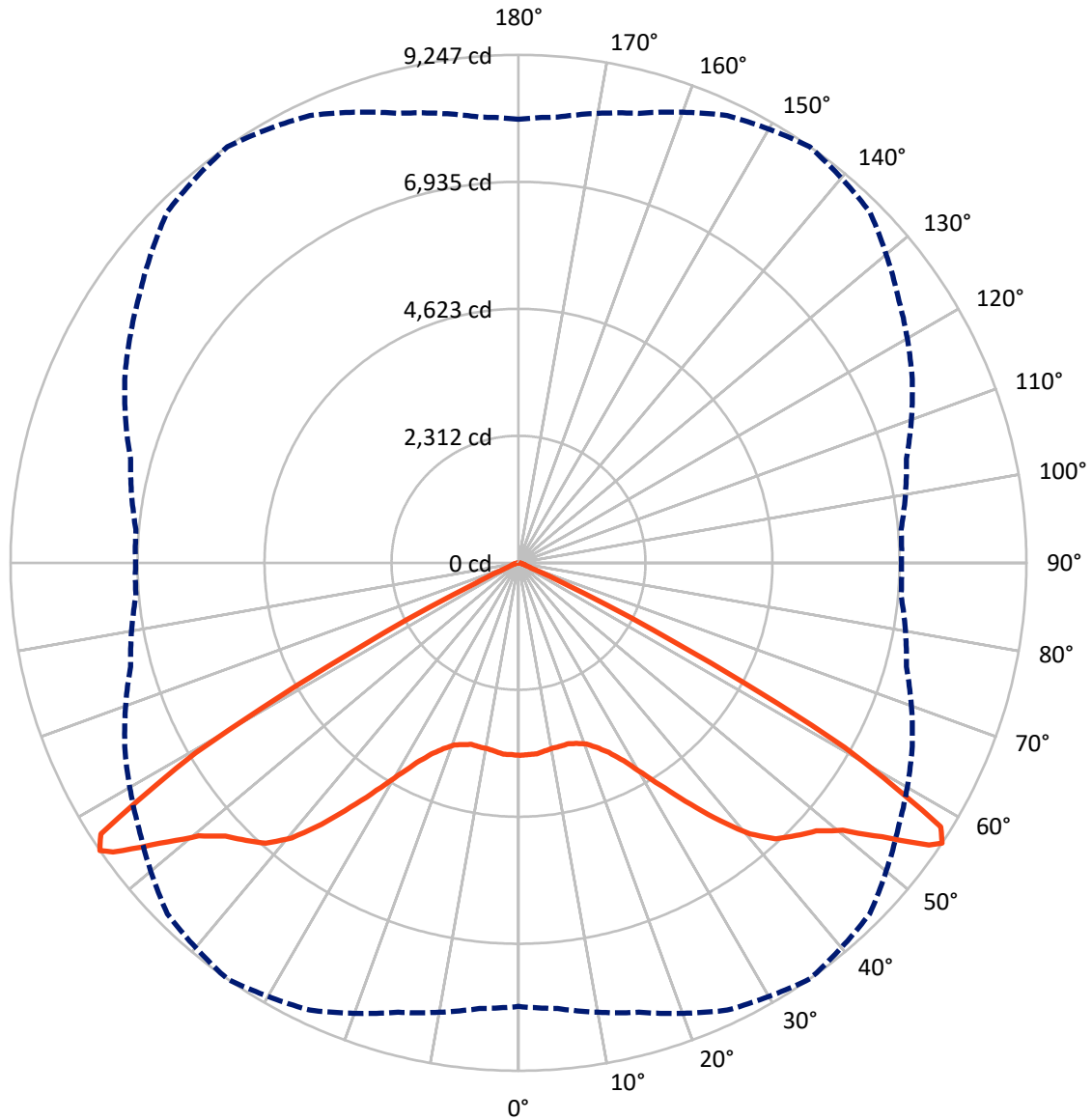
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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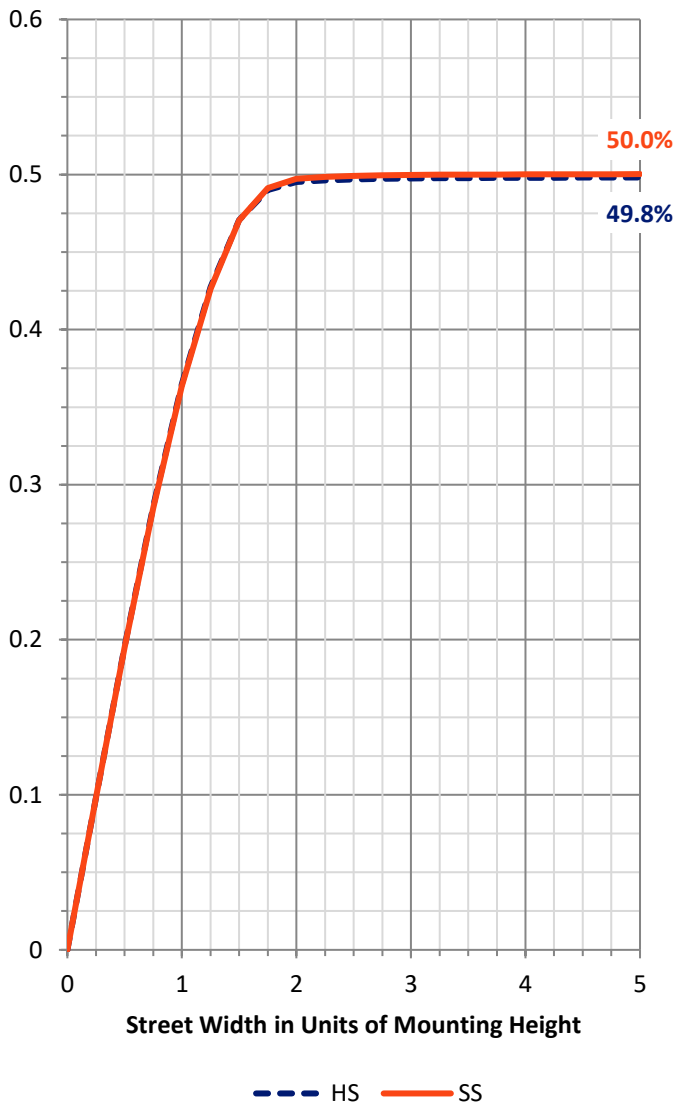
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10002.0	0.0	10002.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10002.0	0.0	10002.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20004.0	0.0	20004.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.4	1.6
10°-20°	961.8	4.8
20°-30°	1741.6	8.7
30°-40°	3229.6	16.1
40°-50°	5301.2	26.5
50°-60°	6829.5	34.1
60°-70°	1505.1	7.5
70°-80°	87.3	0.4
80°-90°	18.4	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°	20004.0	100.0
0°-180°	20004.0	100.0

Coefficient of Utilization



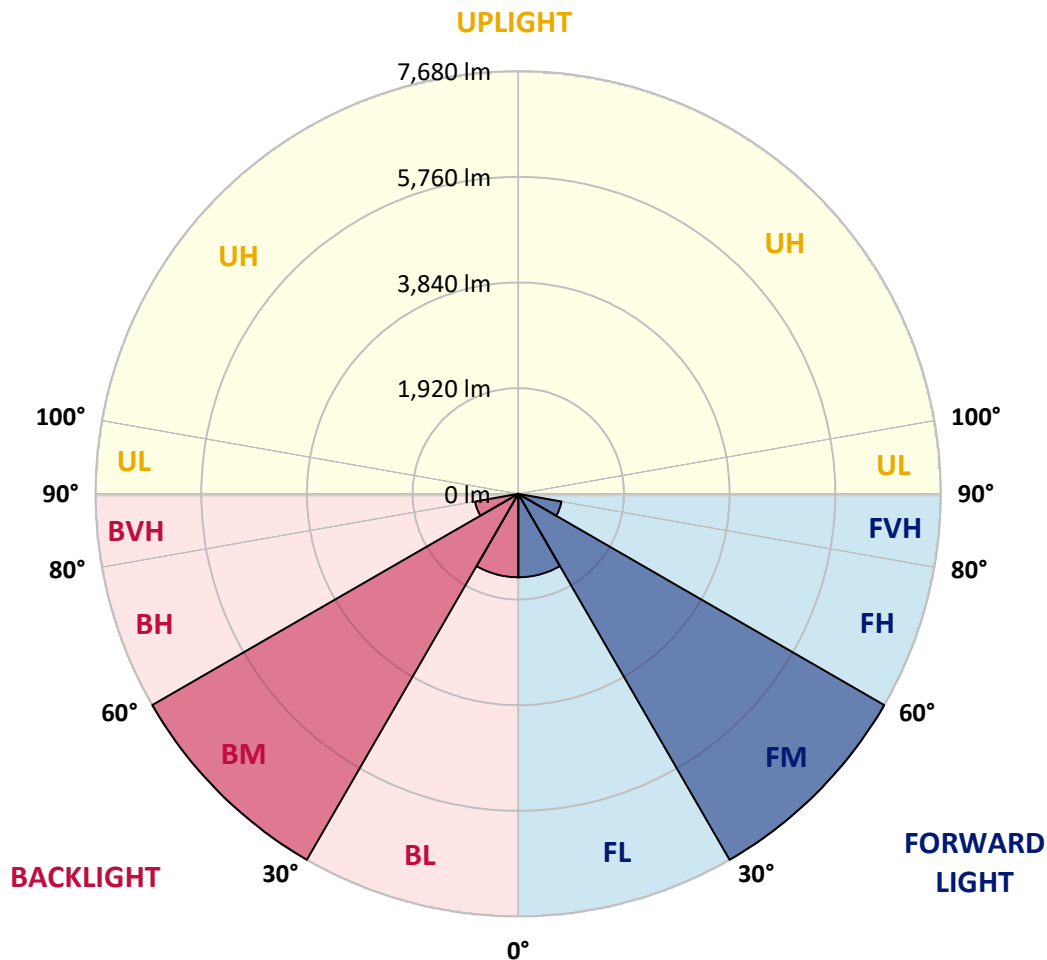
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1516.4	7.6			
FM (30°-60°)	7680.2	38.4			
FH (60°-80°)	796.2	4.0			G1/1800
FVH (80°-90°)	9.2	0.0			G0/10
BL (0°-30°)	1516.4	7.6	B3/2500		
BM (30°-60°)	7680.2	38.4	B4/8500		
BH (60°-80°)	796.2	4.0	B2/1000		G1/1800
BVH (80°-90°)	9.2	0.0			G0/10
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°	3505.1	3505.1	3505.1	3505.1	3505.1	3505.1	3505.1	3505.1	3505.1	3505.1	3505.1
2.5°	3512.4	3512.4	3516.0	3519.7	3494.3	3483.4	3487.0	3479.7	3476.1	3487.0	3487.0
5°	3501.5	3501.5	3490.7	3494.3	3494.3	3461.6	3461.6	3468.9	3468.9	3447.2	3439.9
7.5°	3472.5	3465.3	3450.8	3468.9	3458.0	3458.0	3432.6	3414.5	3407.2	3421.8	3407.2
10°	3410.9	3414.5	3429.0	3436.2	3429.0	3450.8	3407.2	3381.9	3356.5	3345.7	3345.7
12.5°	3381.9	3403.6	3381.9	3400.0	3425.4	3407.2	3381.9	3363.7	3327.5	3313.0	3313.0
15°	3378.3	3392.8	3400.0	3425.4	3414.5	3421.8	3371.0	3349.3	3294.9	3269.6	3258.6
17.5°	3374.7	3392.8	3403.6	3450.8	3458.0	3461.6	3421.8	3356.5	3309.4	3284.0	3258.6
20°	3414.5	3421.8	3443.5	3490.7	3519.7	3570.4	3497.9	3429.0	3327.5	3298.5	3287.6
22.5°	3465.3	3501.5	3523.3	3574.0	3650.1	3693.6	3599.4	3512.4	3407.2	3371.0	3327.5
25°	3628.4	3621.1	3657.3	3762.5	3824.1	3856.7	3780.6	3653.7	3516.0	3472.5	3479.7
27.5°	3831.3	3838.6	3871.2	3987.3	4077.8	4128.6	4038.0	3871.2	3737.2	3664.7	3657.3
30°	4096.0	4088.7	4124.9	4280.9	4443.9	4520.0	4360.6	4164.8	4034.4	3940.1	3961.9
32.5°	4375.1	4378.7	4480.2	4621.5	4886.1	5034.8	4777.4	4538.2	4342.4	4277.2	4244.6
35°	4788.3	4806.4	4886.1	5103.7	5397.3	5589.4	5306.6	5020.3	4795.6	4676.0	4690.4
37.5°	5299.4	5281.2	5415.4	5651.0	5959.1	6100.4	5861.3	5535.0	5306.6	5226.9	5277.6
40°	5843.1	5861.3	5930.1	6143.9	6488.3	6582.6	6227.4	6049.7	5850.3	5810.5	5872.1
42.5°	6386.8	6376.0	6426.7	6618.8	6868.9	6803.7	6593.4	6488.3	6346.9	6267.2	6350.6
45°	6785.5	6767.4	6861.6	6992.2	7082.7	6959.5	6865.3	6829.0	6756.5	6669.6	6745.7
47.5°	7173.4	7158.8	7249.5	7285.8	7293.0	7129.9	7148.0	7213.3	7032.0	6850.8	6937.7
50°	7503.2	7477.8	7590.2	7670.0	7651.8	7390.9	7456.1	7390.9	7108.1	6894.3	6861.6
52.5°	8054.2	8065.1	8184.7	8329.7	8286.2	8068.7	7974.4	7677.2	7314.8	7122.6	7010.2
55°	8402.2	8347.8	8554.4	9014.8	9065.5	8840.8	8424.0	7985.3	7441.6	7206.0	7177.0
56°	8076.0	8144.8	8471.1	8985.7	9246.7	9040.2	8434.8	7909.2	7311.1	6992.2	6970.4
57.5°	7245.9	7209.6	7651.8	8355.1	9065.5	8978.5	8137.6	7365.5	6669.6	6310.7	6267.2
60°	4509.2	4614.3	5002.2	5872.1	6821.8	6865.3	6031.6	5368.3	4556.3	4237.3	4313.5
62.5°	1765.3	1674.6	1917.5	2566.3	3218.8	3363.7	3048.5	2533.7	2080.6	1765.3	1743.5
65°	409.6	398.7	449.4	619.8	866.3	1004.1	953.3	685.1	503.8	478.4	442.2
67.5°	231.9	231.9	221.1	221.1	242.9	257.3	246.5	242.9	253.7	264.6	261.0
70°	163.2	159.5	152.2	155.8	148.6	148.6	159.5	177.6	192.1	192.1	195.7
72.5°	97.9	97.9	97.9	108.7	108.7	108.7	119.6	134.1	137.8	134.1	130.5
75°	43.5	43.5	50.7	61.6	68.9	72.5	83.3	90.7	97.9	90.7	83.3
77.5°	10.8	10.8	18.2	25.4	32.6	39.9	54.4	65.3	68.9	65.3	54.4
80°	3.6	3.6	7.2	18.2	32.6	39.9	54.4	58.0	61.6	54.4	43.5
82.5°	3.6	3.6	7.2	18.2	25.4	32.6	43.5	50.7	54.4	47.1	43.5
85°	0.0	3.6	7.2	14.5	21.8	29.0	29.0	21.8	18.2	10.8	14.5
87.5°	0.0	0.0	3.6	3.6	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)