

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: P651986

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
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-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18402.7 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

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

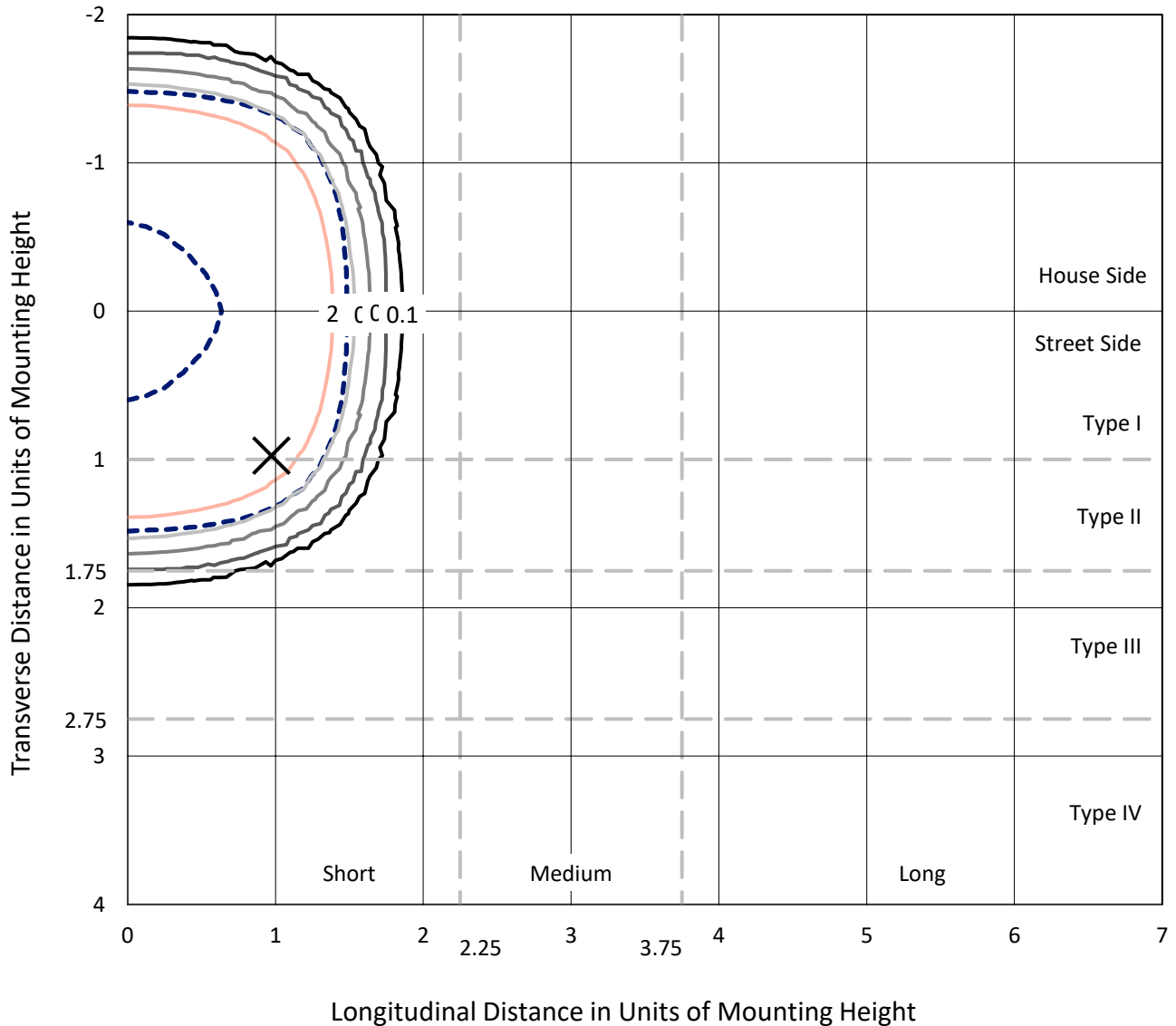




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Iso-Footcandle Lines of Horizontal Illumination

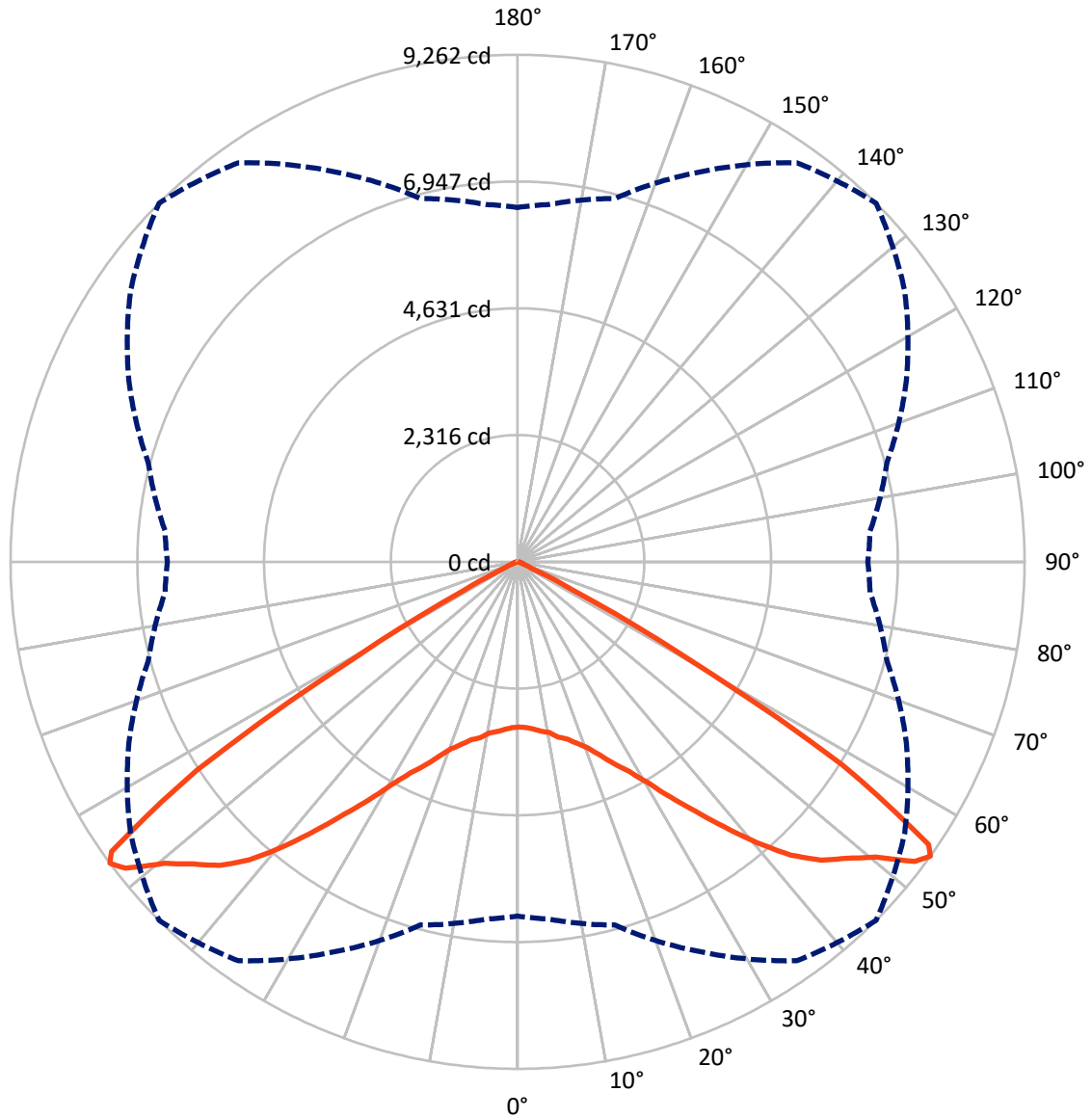
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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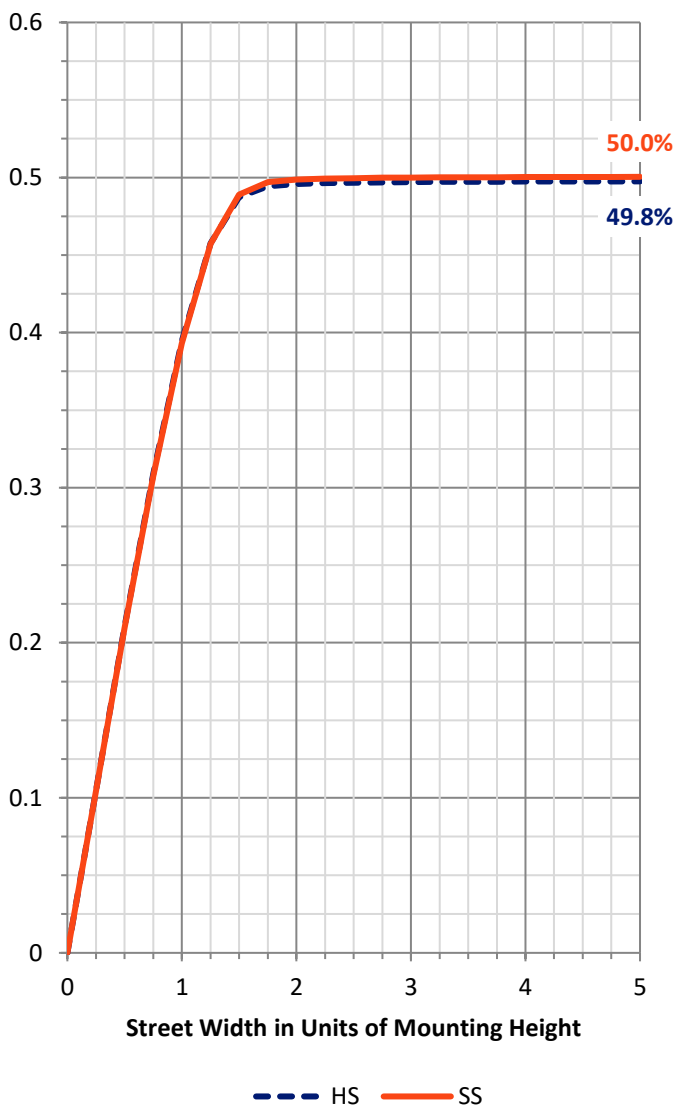
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9201.4	0.0	9201.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9201.4	0.0	9201.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	18402.7	0.0	18402.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.6
10°-20°	956.4	5.2
20°-30°	1874.5	10.2
30°-40°	3370.8	18.3
40°-50°	5770.2	31.4
50°-60°	5583.2	30.3
60°-70°	477.9	2.6
70°-80°	56.6	0.3
80°-90°	17.8	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°	18402.7	100.0
0°-180°	18402.7	100.0

Coefficient of Utilization



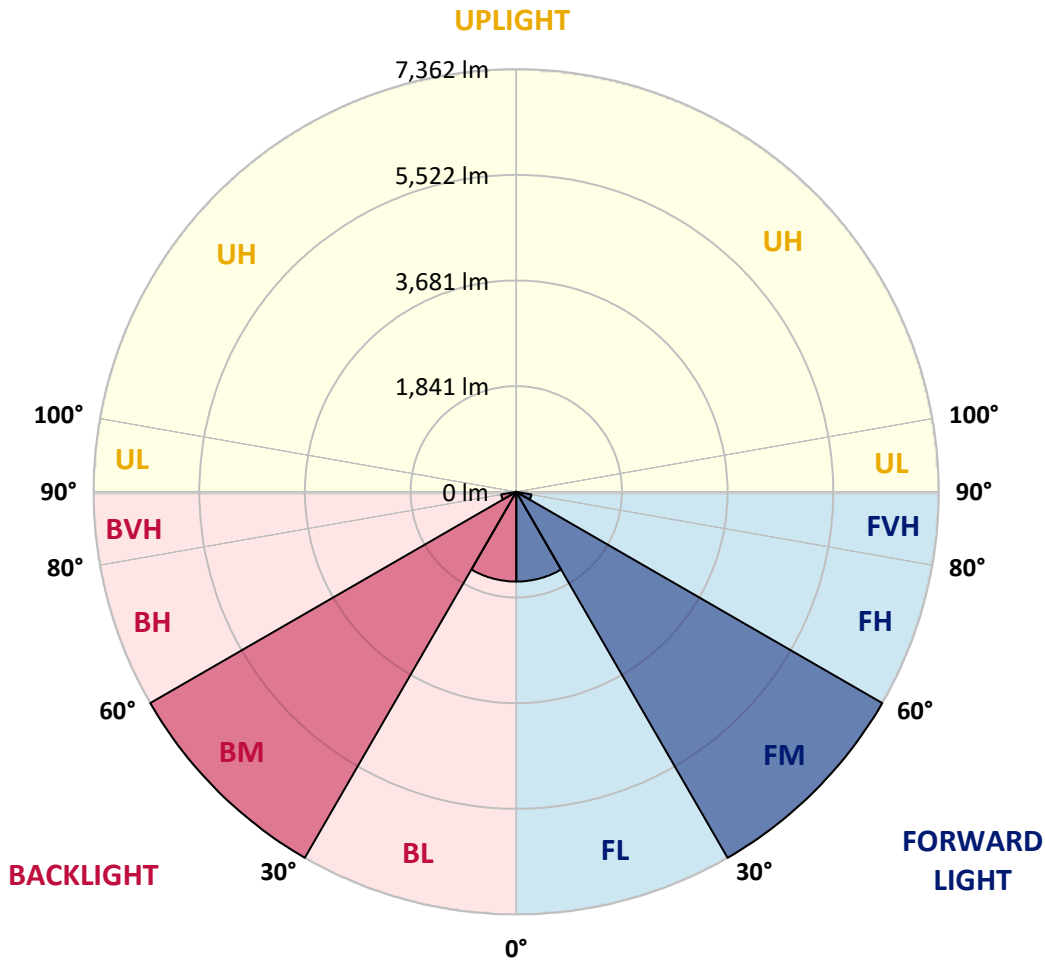
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1563.1	8.5			
FM (30°-60°)	7362.1	40.0			
FH (60°-80°)	267.3	1.5			G0/660
FVH (80°-90°)	8.9	0.0			G0/10
BL (0°-30°)	1563.1	8.5	B3/2500		
BM (30°-60°)	7362.1	40.0	B4/8500		
BH (60°-80°)	267.3	1.5	B1/500		G0/660
BVH (80°-90°)	8.9	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-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5	3017.5
2.5°	3032.1	3049.6	3037.9	3046.6	3046.6	3032.1	3040.8	3005.8	3029.1	3011.6	3014.6
5°	3078.7	3075.8	3075.8	3078.7	3067.0	3072.8	3061.2	3049.6	3040.8	3029.1	3064.1
7.5°	3137.0	3137.0	3116.6	3122.5	3116.6	3125.3	3102.0	3078.7	3070.0	3061.2	3055.4
10°	3192.4	3186.5	3177.8	3204.0	3183.7	3172.0	3160.3	3145.8	3113.7	3102.0	3090.3
12.5°	3274.0	3271.2	3259.5	3285.7	3274.0	3285.7	3242.0	3204.0	3198.2	3160.3	3180.7
15°	3370.2	3396.5	3376.1	3376.1	3370.2	3355.7	3338.2	3320.7	3268.2	3253.7	3256.5
17.5°	3495.6	3486.9	3489.8	3489.8	3518.9	3481.1	3446.1	3402.3	3376.1	3367.4	3338.2
20°	3615.1	3626.8	3623.9	3644.3	3661.8	3621.0	3583.1	3577.3	3504.4	3516.1	3475.2
22.5°	3825.0	3816.3	3830.9	3845.5	3833.8	3828.0	3793.0	3749.3	3685.1	3656.0	3650.1
25°	4046.6	4032.1	4005.9	4040.8	4058.3	4084.6	4017.5	3994.2	3895.0	3851.3	3854.2
27.5°	4236.1	4256.6	4285.7	4300.3	4344.0	4335.3	4288.6	4212.8	4137.0	4087.4	4055.4
30°	4495.6	4507.3	4556.8	4577.2	4653.0	4673.4	4600.5	4513.1	4379.0	4314.8	4277.0
32.5°	4734.7	4816.3	4813.4	4915.4	5037.8	5122.4	4991.3	4857.1	4723.0	4647.2	4580.2
35°	5122.4	5107.8	5192.4	5300.2	5498.5	5594.8	5451.9	5297.4	5093.3	4970.8	4918.3
37.5°	5483.9	5489.8	5603.5	5775.5	6002.9	6151.6	6026.2	5772.5	5562.6	5405.2	5332.4
40°	6008.7	6020.4	6137.0	6332.3	6588.9	6749.3	6603.4	6346.9	6067.1	5944.6	5944.6
42.5°	6623.9	6673.4	6749.3	6918.3	7148.7	7326.5	7195.3	6994.2	6711.3	6553.9	6577.2
45°	7256.6	7279.9	7329.4	7580.1	7688.0	7775.5	7653.0	7559.7	7370.3	7177.9	7145.7
47.5°	7848.4	7857.1	8002.9	8081.6	8166.1	8093.3	8172.0	8049.5	7836.7	7650.1	7612.2
50°	8110.8	8096.1	8303.2	8542.2	8606.4	8478.1	8411.0	8329.4	8005.8	7781.3	7682.2
52.5°	7346.9	7431.5	7816.3	8481.0	8982.5	9090.4	8699.6	8323.5	7720.0	7282.8	7215.7
54°	6472.3	6551.0	6868.8	7854.2	8897.9	9262.4	8632.6	7833.7	6982.5	6463.5	6396.5
55°	5606.4	5518.9	6096.2	7102.0	8501.4	9110.7	8367.3	7201.1	6227.4	5752.2	5658.8
57.5°	3035.0	3049.6	3536.4	4486.8	5973.7	6985.4	6169.1	4871.7	3679.3	3145.8	3099.1
60°	962.1	985.4	1198.3	1813.4	2854.2	3408.2	2921.3	1956.3	1352.7	1084.6	1040.8
62.5°	300.3	311.9	341.1	507.3	781.4	1116.6	874.6	524.8	390.6	358.6	364.4
65°	183.7	183.7	186.6	198.2	233.2	271.1	262.4	230.3	221.6	215.7	212.9
67.5°	119.5	116.6	122.4	131.2	137.0	139.9	148.7	157.4	154.5	148.7	148.7
70°	72.9	70.0	75.8	87.5	90.4	96.2	105.0	116.6	113.7	107.9	110.8
72.5°	40.8	40.8	43.7	52.5	61.2	67.0	75.8	84.5	87.5	84.5	84.5
75°	14.5	17.5	23.3	32.0	37.9	46.7	55.4	64.2	72.9	67.0	64.2
77.5°	5.8	5.8	11.7	20.4	29.2	37.9	52.5	61.2	67.0	61.2	55.4
80°	2.9	2.9	8.7	17.5	26.2	35.0	43.7	52.5	55.4	49.5	43.7
82.5°	2.9	2.9	8.7	17.5	26.2	32.0	46.7	52.5	58.3	52.5	43.7
85°	0.0	2.9	8.7	17.5	23.3	26.2	26.2	17.5	14.5	8.7	8.7
87.5°	0.0	0.0	2.9	0.0	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)