

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: P652596

Luminaire Tested: **GALN-SA9B-840-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-840-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45404.8 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

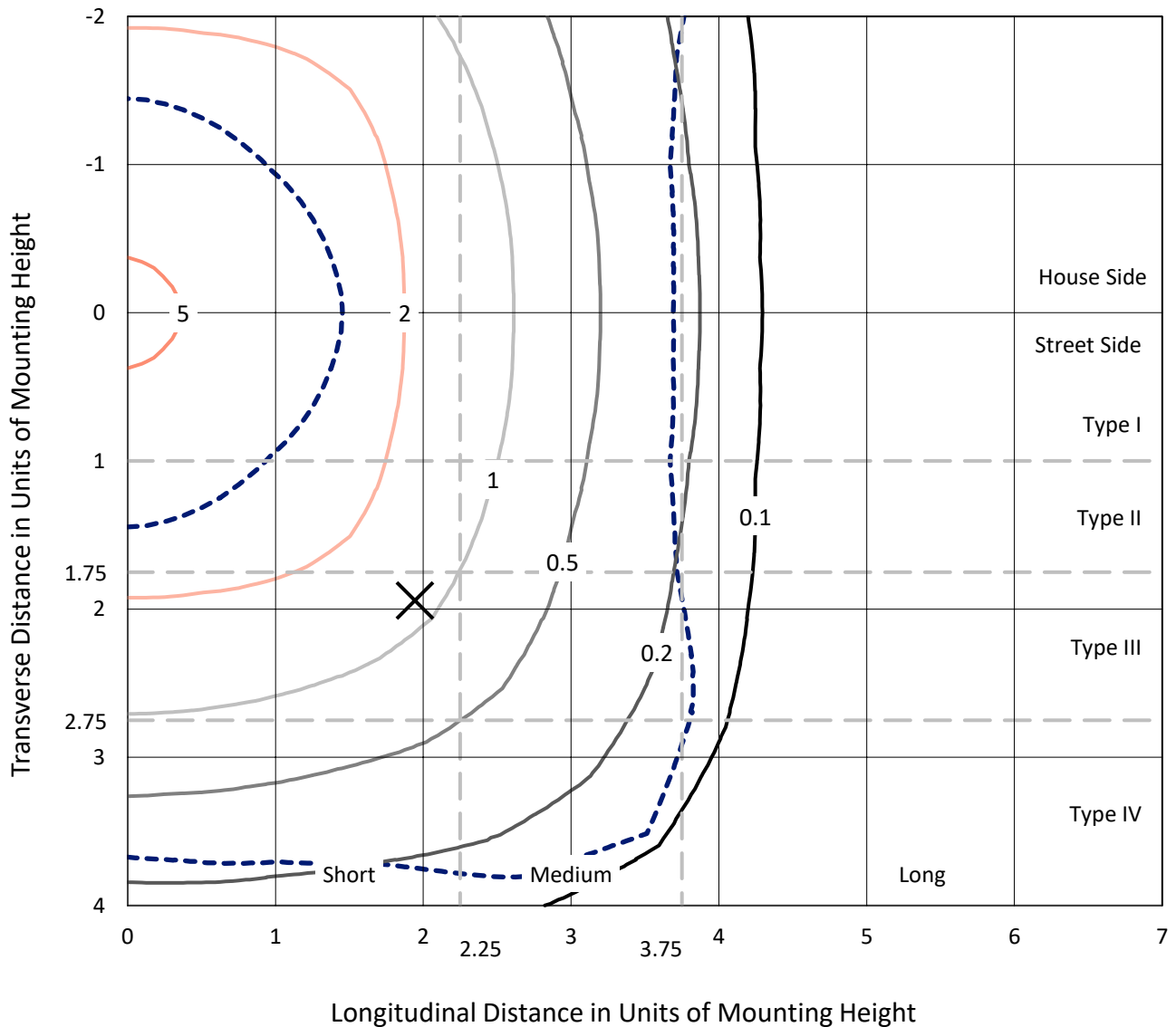
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

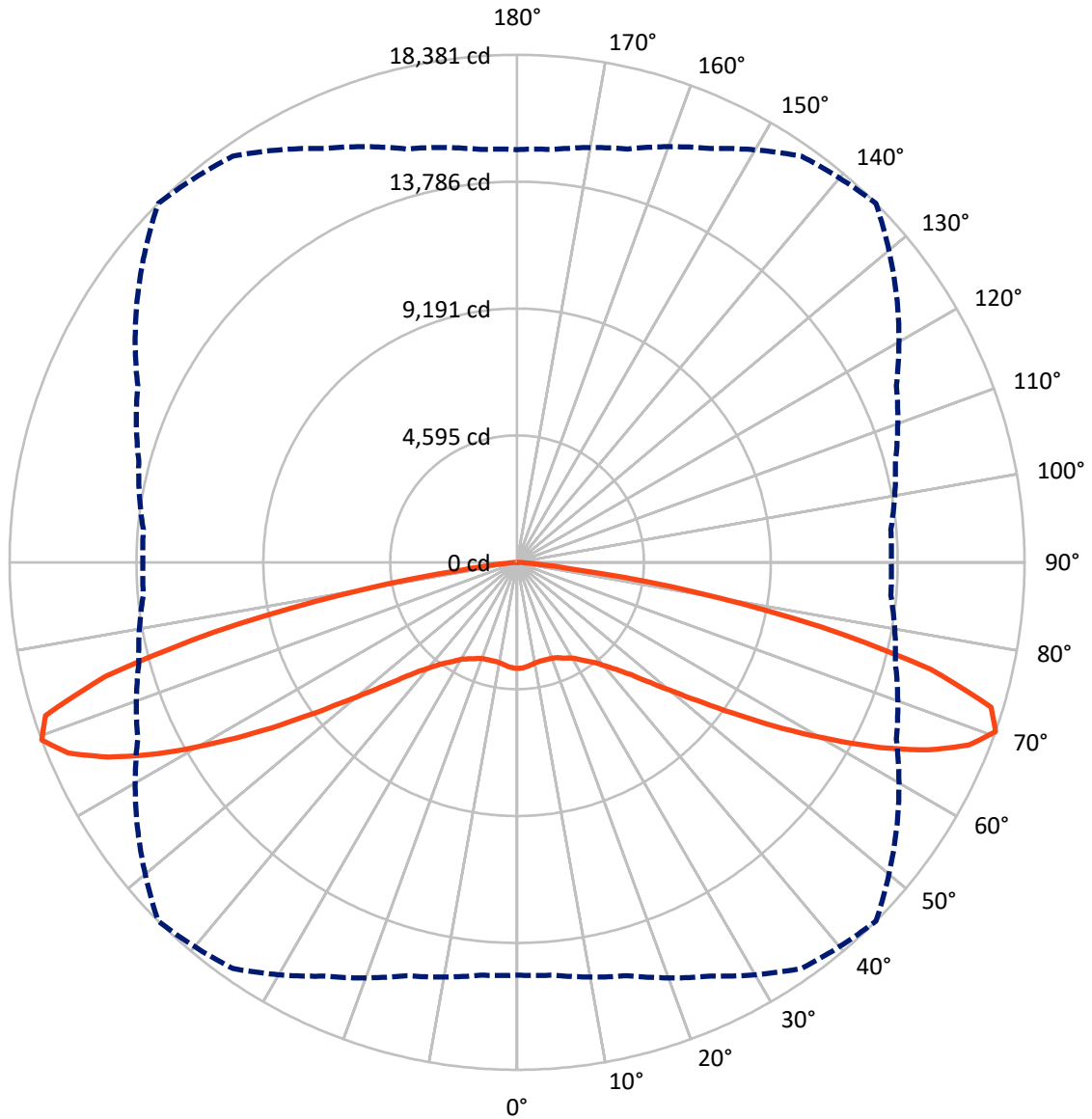
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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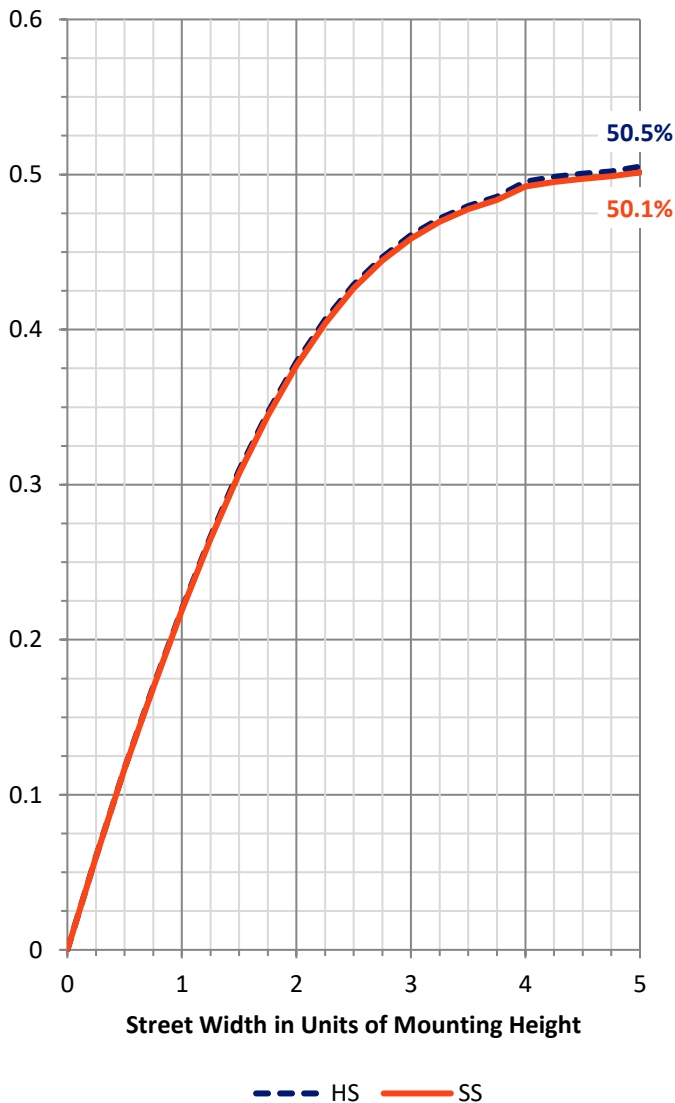
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22702.4	0.0	22702.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22702.4	0.0	22702.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	45404.8	0.0	45404.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.5	0.8
10°-20°	1052.4	2.3
20°-30°	1793.1	3.9
30°-40°	2779.3	6.1
40°-50°	4677.9	10.3
50°-60°	8511.3	18.7
60°-70°	14409.4	31.7
70°-80°	11153.4	24.6
80°-90°	668.3	1.5
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°	45404.8	100.0
0°-180°	45404.8	100.0

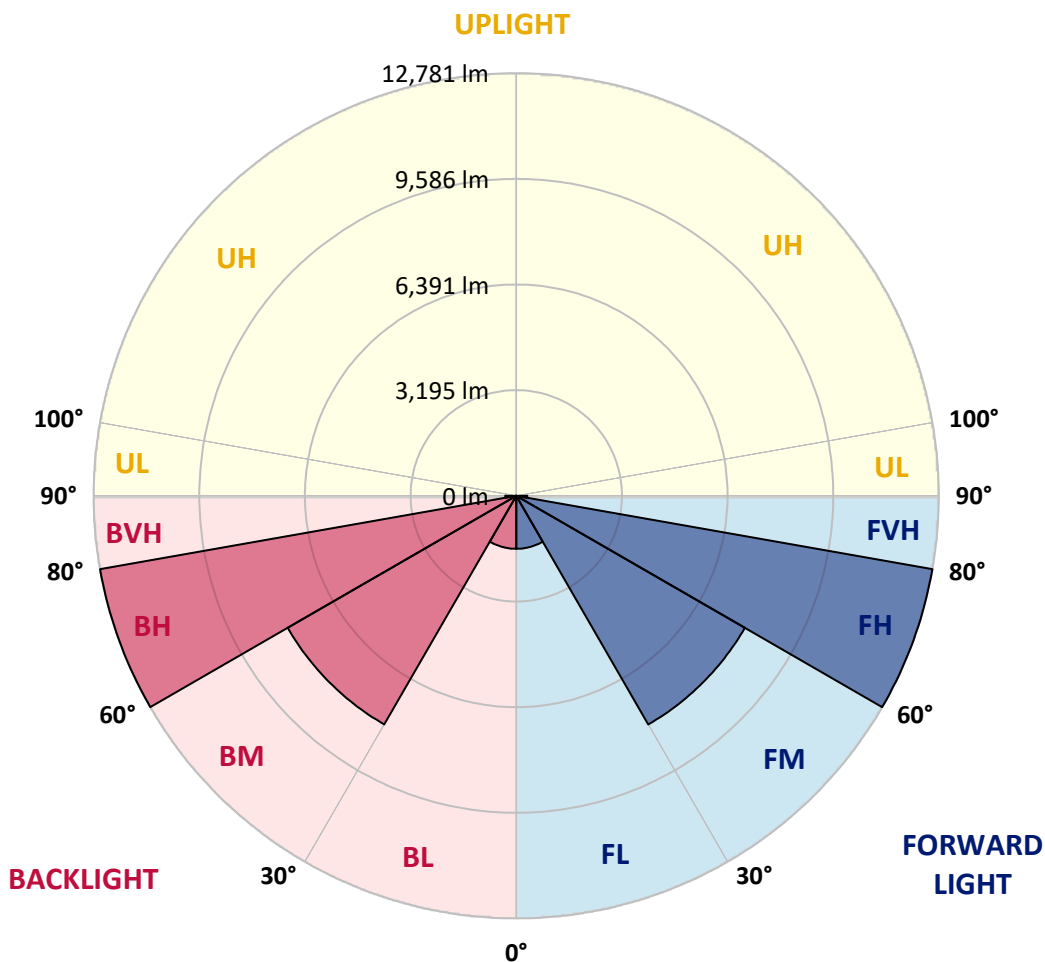


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1602.5	3.5			
FM (30°-60°)	7984.3	17.6			
FH (60°-80°)	12781.4	28.1			G5
FVH (80°-90°)	334.2	0.7			G3/500
BL (0°-30°)	1602.5	3.5	B3/2500		
BM (30°-60°)	7984.3	17.6	B4/8500		
BH (60°-80°)	12781.4	28.1	B5		G5
BVH (80°-90°)	334.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0	3844.0
2.5°	3834.5	3836.9	3836.9	3832.1	3829.7	3829.7	3827.3	3827.3	3834.5	3836.9	3839.2
5°	3800.9	3800.9	3800.9	3798.5	3793.8	3793.8	3788.9	3788.9	3791.3	3798.5	3793.8
7.5°	3755.3	3760.1	3760.1	3750.5	3743.4	3743.4	3740.9	3743.4	3745.7	3753.0	3750.5
10°	3740.9	3743.4	3731.3	3714.6	3702.6	3695.4	3697.8	3702.6	3714.6	3719.4	3721.8
12.5°	3750.5	3750.5	3729.0	3704.9	3683.4	3673.8	3671.4	3688.2	3709.8	3724.2	3729.0
15°	3762.5	3757.8	3731.3	3700.1	3678.6	3676.2	3673.8	3685.8	3717.0	3745.7	3748.2
17.5°	3769.7	3767.3	3733.8	3695.4	3683.4	3683.4	3681.0	3690.6	3724.2	3760.1	3762.5
20°	3793.8	3786.5	3748.2	3707.4	3697.8	3702.6	3695.4	3707.4	3743.4	3786.5	3796.1
22.5°	3841.7	3834.5	3796.1	3755.3	3750.5	3750.5	3748.2	3760.1	3798.5	3844.0	3851.3
25°	3899.2	3892.1	3856.1	3827.3	3832.1	3841.7	3836.9	3839.2	3870.5	3908.8	3920.8
27.5°	3976.0	3964.0	3932.8	3908.8	3923.2	3923.2	3923.2	3920.8	3940.0	3976.0	3987.9
30°	4069.5	4064.7	4031.1	4028.7	4040.7	4028.7	4028.7	4031.1	4033.5	4067.1	4079.1
32.5°	4191.8	4182.2	4165.4	4160.6	4194.2	4203.7	4170.2	4139.1	4155.8	4189.4	4196.6
35°	4393.2	4378.8	4354.9	4328.5	4354.9	4400.4	4328.5	4304.5	4347.6	4393.2	4398.0
37.5°	4666.6	4659.4	4621.0	4573.1	4570.7	4618.6	4544.3	4541.9	4623.4	4678.6	4685.8
40°	5009.5	5016.7	4968.7	4923.2	4899.2	4937.6	4880.0	4901.6	4980.7	5043.1	5038.3
42.5°	5491.6	5465.2	5390.8	5347.7	5321.3	5306.9	5292.5	5326.1	5414.8	5482.0	5534.7
45°	6055.0	6045.4	5951.9	5899.2	5841.7	5820.1	5815.3	5875.2	5983.1	6064.6	6071.9
47.5°	6692.9	6671.4	6611.4	6556.3	6534.7	6508.3	6484.3	6529.9	6637.8	6695.4	6712.1
50°	7350.0	7354.8	7354.8	7345.2	7366.8	7371.6	7306.9	7323.6	7383.6	7378.8	7374.0
52.5°	8100.6	8127.0	8251.6	8263.7	8366.8	8436.3	8318.8	8249.3	8227.7	8098.2	8107.8
55°	8983.1	9007.0	9194.1	9381.2	9659.3	9776.8	9529.9	9314.0	9160.5	8963.9	8973.5
57.5°	10083.8	10095.8	10273.2	10632.9	11074.2	11350.0	10915.9	10489.0	10177.3	9990.2	9915.9
60°	11268.4	11280.4	11539.4	11978.3	12664.1	12999.8	12462.6	11764.8	11371.5	11086.1	11105.3
62.5°	12690.4	12738.5	12971.0	13575.3	14407.4	14783.9	14071.7	13138.9	12606.5	12251.6	12266.0
65°	14213.2	14294.7	14549.0	15213.2	15980.6	16385.9	15513.0	14436.3	13774.4	13340.4	13385.9
67.5°	15201.2	15273.1	15640.1	16373.8	17330.7	17666.4	16539.4	15285.2	14457.8	13939.8	13844.0
70°	14949.4	15009.4	15498.5	16539.4	17956.6	18381.1	16783.9	15160.5	14186.8	13589.7	13551.4
72.5°	13196.5	13071.7	13786.3	15280.4	17241.9	17954.2	16014.2	13846.3	12620.9	12007.0	11935.1
75°	8745.6	9016.6	10071.8	11831.9	14587.3	15469.8	13668.9	11117.3	9575.4	9064.6	8985.5
77.5°	2923.2	3131.9	4069.5	6707.3	9944.7	11270.8	9959.1	7270.9	5143.8	4143.9	4163.0
80°	774.6	765.0	990.4	1844.1	4297.3	6527.5	5002.4	2462.8	1347.7	976.0	925.6
82.5°	278.2	311.8	400.5	510.8	1139.1	2028.7	1431.6	690.6	506.0	374.1	362.1
85°	122.3	119.9	172.7	203.9	285.4	378.9	335.7	292.6	256.6	170.3	158.3
87.5°	26.4	26.4	40.8	31.2	50.4	50.4	62.3	74.3	76.7	50.4	40.8
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)