

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: P652320

Luminaire Tested: **GALN-SA4B-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-840-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16060.6 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

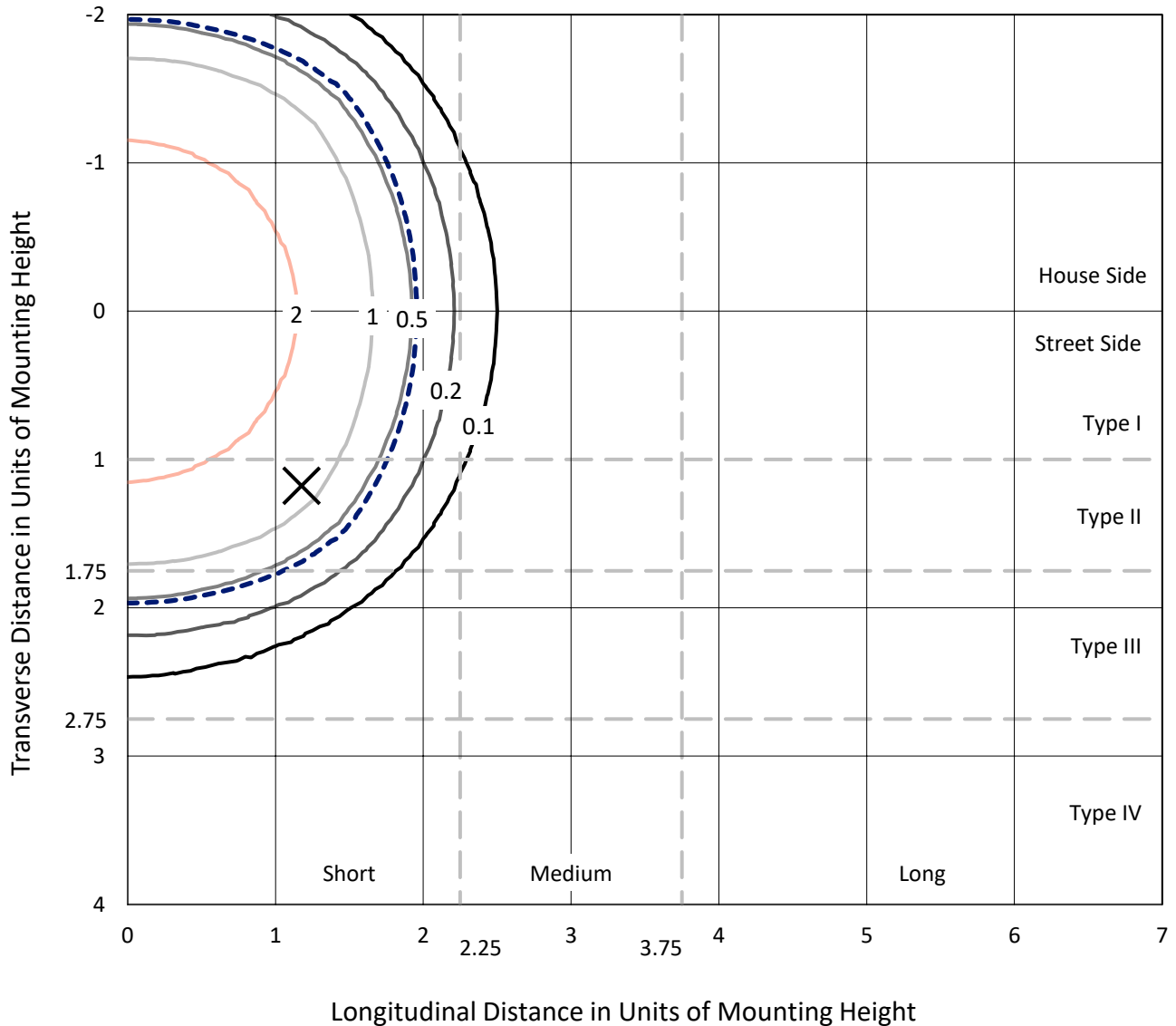
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

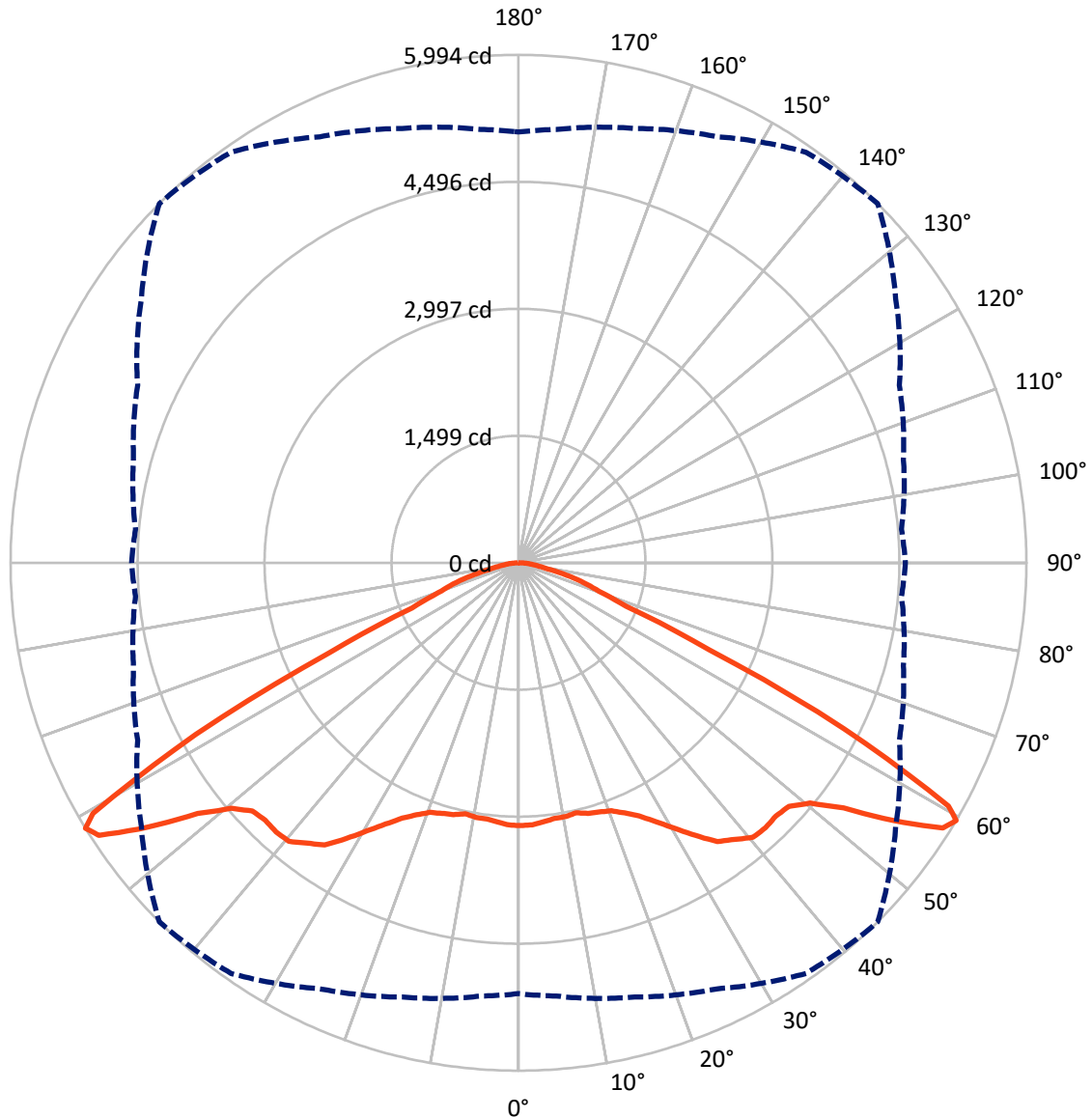
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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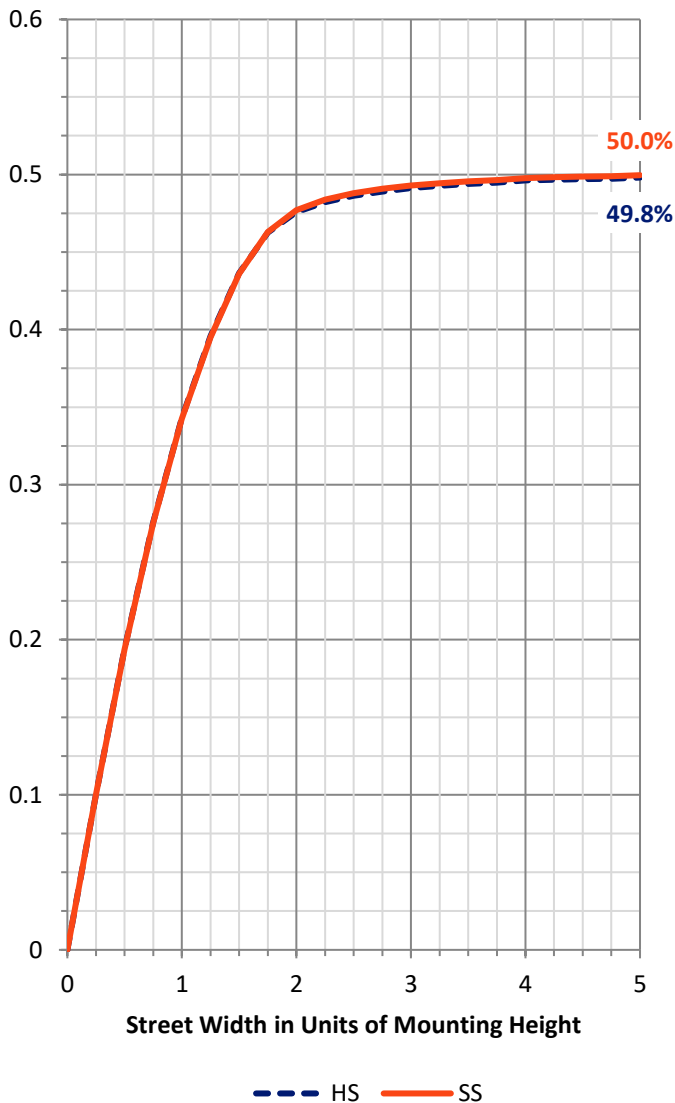
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8030.3	0.0	8030.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8030.3	0.0	8030.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16060.6	0.0	16060.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.4	1.8
10°-20°	869.6	5.4
20°-30°	1518.5	9.5
30°-40°	2425.2	15.1
40°-50°	3303.7	20.6
50°-60°	4467.4	27.8
60°-70°	2450.0	15.3
70°-80°	626.8	3.9
80°-90°	106.9	0.7
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°	16060.6	100.0
0°-180°	16060.6	100.0

**Coefficient of Utilization**



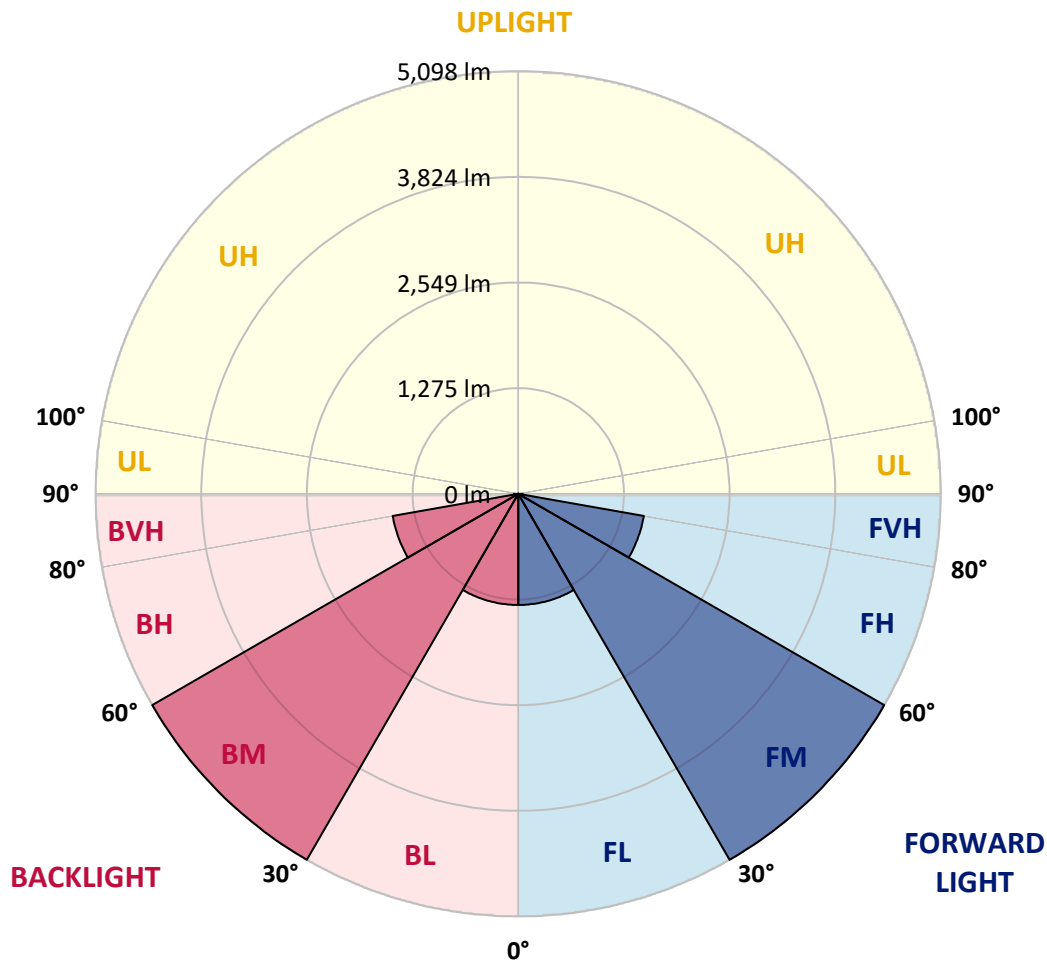
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1340.3	8.3			
FM	(30°-60°)	5098.2	31.7			
FH	(60°-80°)	1538.4	9.6			G1/1800
FVH	(80°-90°)	53.5	0.3			G1/100
BL	(0°-30°)	1340.3	8.3	B3/2500		
BM	(30°-60°)	5098.2	31.7	B4/8500		
BH	(60°-80°)	1538.4	9.6	B3/2500		G1/1800
BVH	(80°-90°)	53.5	0.3			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°	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1	3102.1
2.5°	3083.6	3106.2	3089.7	3104.2	3102.1	3096.0	3085.6	3079.5	3071.2	3083.6	3063.0
5°	3071.2	3089.7	3108.3	3083.6	3083.6	3071.2	3065.1	3052.7	3052.7	3050.6	3048.6
7.5°	3091.9	3073.4	3065.1	3069.2	3073.4	3046.5	3065.1	3040.4	3019.8	3034.2	3050.6
10°	3073.4	3081.6	3050.6	3065.1	3042.4	3046.5	3034.2	3050.6	3028.0	3028.0	3028.0
12.5°	3091.9	3069.2	3079.5	3069.2	3063.0	3028.0	3044.5	3026.0	3023.9	3044.5	3026.0
15°	3128.9	3091.9	3083.6	3063.0	3069.2	3069.2	3052.7	3054.8	3032.1	3044.5	3048.6
17.5°	3116.6	3096.0	3089.7	3065.1	3085.6	3091.9	3061.0	3040.4	3054.8	3052.7	3050.6
20°	3126.8	3135.1	3128.9	3133.0	3141.2	3124.8	3096.0	3067.1	3048.6	3075.4	3073.4
22.5°	3192.7	3184.4	3180.3	3176.2	3190.7	3207.2	3168.0	3122.7	3122.7	3141.2	3149.5
25°	3246.3	3244.2	3242.1	3260.6	3310.0	3310.0	3260.6	3203.0	3188.6	3200.9	3190.7
27.5°	3324.5	3347.1	3338.9	3371.8	3443.8	3460.3	3394.4	3326.5	3287.4	3273.0	3291.5
30°	3503.5	3476.8	3482.9	3518.0	3581.7	3635.3	3534.4	3462.4	3408.8	3406.8	3415.0
32.5°	3622.9	3643.5	3662.1	3695.0	3795.9	3837.0	3715.5	3598.2	3565.3	3546.7	3553.0
35°	3861.7	3843.2	3839.1	3872.0	3972.9	4040.8	3888.4	3785.6	3742.4	3783.5	3783.5
37.5°	4088.2	4036.7	3997.6	4040.8	4133.4	4141.7	4012.0	3956.4	3933.8	3981.1	3979.0
40°	4195.2	4191.0	4100.5	4125.2	4248.7	4261.1	4139.6	4073.7	4069.6	4131.4	4193.1
42.5°	4306.3	4267.2	4176.7	4193.1	4269.3	4273.4	4158.2	4139.6	4184.9	4244.6	4248.7
45°	4324.8	4292.0	4234.3	4193.1	4248.7	4261.1	4193.1	4205.5	4209.6	4281.6	4281.6
47.5°	4361.9	4357.8	4324.8	4294.0	4304.3	4294.0	4250.8	4269.3	4331.1	4366.1	4349.6
50°	4464.9	4421.6	4454.5	4427.8	4429.9	4458.6	4419.5	4438.1	4425.8	4394.9	4374.3
52.5°	4691.3	4670.7	4699.5	4718.0	4738.6	4804.5	4759.2	4660.4	4567.8	4485.5	4483.4
55°	5022.7	5037.1	5092.7	5187.4	5267.7	5372.6	5154.4	4917.7	4769.5	4639.8	4648.0
57.5°	5335.6	5325.3	5401.5	5617.6	5852.3	5905.8	5477.6	5140.0	4899.2	4816.8	4781.8
59°	5084.4	5133.9	5306.8	5547.6	5916.1	5994.3	5434.4	4958.9	4703.6	4536.9	4565.7
60°	4689.2	4707.7	4862.2	5197.6	5695.8	5829.6	5144.1	4678.9	4339.3	4242.5	4285.7
62.5°	3314.1	3299.7	3410.9	3684.7	4131.4	4312.6	3824.7	3497.4	3283.3	3176.2	3200.9
65°	1762.1	1827.9	1873.2	2044.1	2280.8	2472.2	2270.5	2128.5	2009.1	1920.6	1918.5
67.5°	1189.8	1181.6	1191.9	1231.0	1311.3	1364.8	1360.7	1288.6	1278.3	1261.8	1280.3
70°	1002.5	998.4	979.8	979.8	996.3	1008.7	1023.1	1031.3	1047.8	1068.3	1066.3
72.5°	813.1	802.8	790.5	784.3	804.8	811.1	829.6	837.8	852.2	850.2	868.7
75°	537.2	537.2	551.7	568.2	574.3	586.7	588.7	613.4	613.4	617.5	601.1
77.5°	300.6	292.3	302.6	319.1	333.5	356.1	378.8	397.3	407.5	403.4	403.4
80°	175.0	175.0	185.3	203.8	222.3	242.9	259.4	273.7	284.1	280.0	271.7
82.5°	109.1	109.1	119.4	137.9	152.3	164.7	187.3	205.9	218.2	214.1	203.8
85°	55.6	55.6	68.0	80.3	98.8	107.1	105.0	96.7	94.7	84.4	84.4
87.5°	14.4	14.4	20.6	22.6	18.5	20.6	20.6	20.6	20.6	20.6	22.6
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)