

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: P529084

Luminaire Tested: **GALN-SA4B-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529084  
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-727-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 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: 15971 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

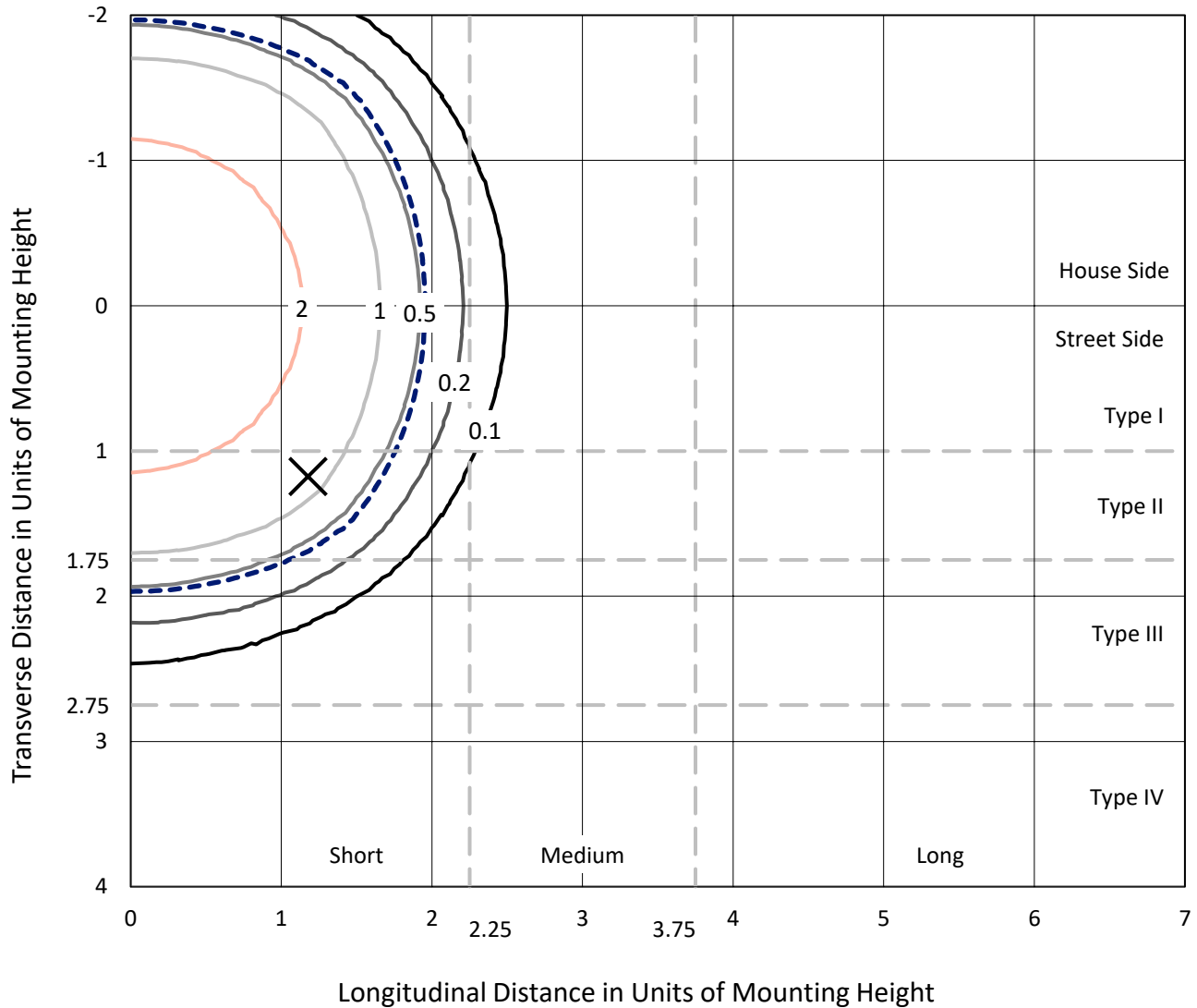
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

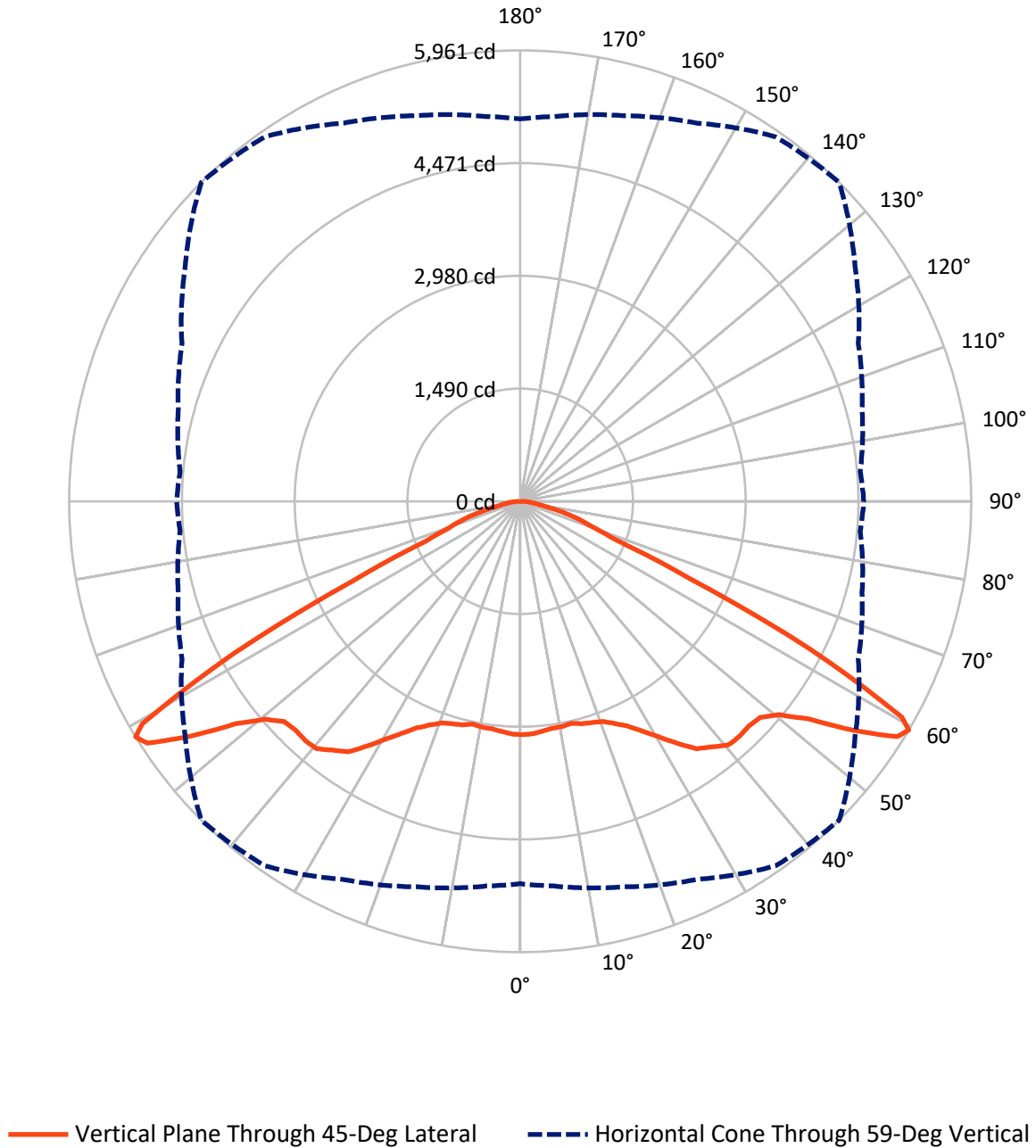
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7985.5	0.0	7985.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7985.5	0.0	7985.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15971.0	0.0	15971.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.8	1.8
10°-20°	864.8	5.4
20°-30°	1510.0	9.5
30°-40°	2411.7	15.1
40°-50°	3285.2	20.6
50°-60°	4442.5	27.8
60°-70°	2436.3	15.3
70°-80°	623.3	3.9
80°-90°	106.3	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°	15971.0	100.0
0°-180°	15971.0	100.0



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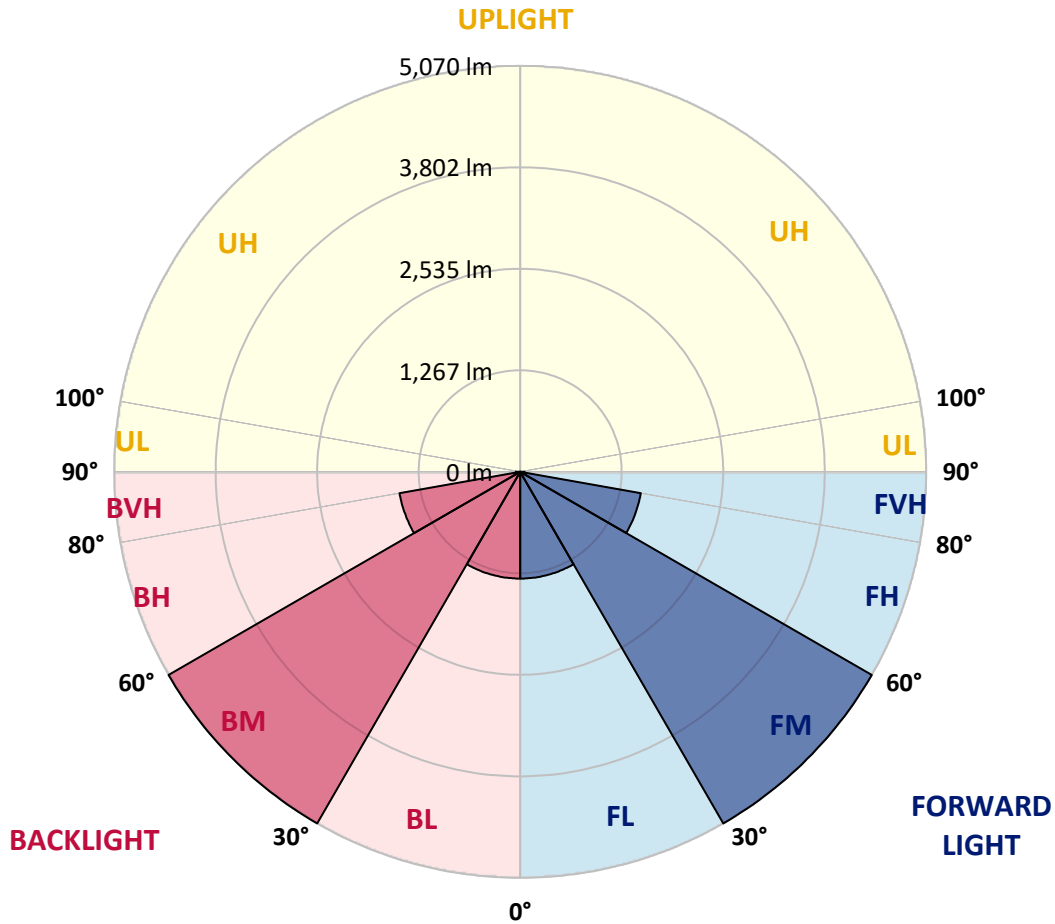
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.8	8.3			
FM (30°-60°)	5069.8	31.7			
FH (60°-80°)	1529.8	9.6			G1/1800
FVH (80°-90°)	53.2	0.3			G1/100
BL (0°-30°)	1332.8	8.3	B3/2500		
BM (30°-60°)	5069.8	31.7	B4/8500		
BH (60°-80°)	1529.8	9.6	B3/2500		G1/1800
BVH (80°-90°)	53.2	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°	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8	3084.8
2.5°	3066.4	3088.9	3072.6	3086.9	3084.8	3078.7	3068.5	3062.3	3054.1	3066.4	3045.9
5°	3054.1	3072.6	3091.0	3066.4	3066.4	3054.1	3048.0	3035.7	3035.7	3033.7	3031.6
7.5°	3074.6	3056.2	3048.0	3052.1	3056.2	3029.6	3048.0	3023.4	3003.0	3017.3	3033.7
10°	3056.2	3064.4	3033.7	3048.0	3025.5	3029.6	3017.3	3033.7	3011.1	3011.1	3011.1
12.5°	3074.6	3052.1	3062.3	3052.1	3045.9	3011.1	3027.5	3009.1	3007.0	3027.5	3009.1
15°	3111.4	3074.6	3066.4	3045.9	3052.1	3052.1	3035.7	3037.8	3015.2	3027.5	3031.6
17.5°	3099.2	3078.7	3072.6	3048.0	3068.5	3074.6	3043.9	3023.4	3037.8	3035.7	3033.7
20°	3109.4	3117.6	3111.4	3115.5	3123.7	3107.4	3078.7	3050.0	3031.6	3058.2	3056.2
22.5°	3174.9	3166.7	3162.6	3158.5	3172.9	3189.2	3150.3	3105.3	3105.3	3123.7	3131.9
25°	3228.1	3226.1	3224.0	3242.5	3291.6	3291.6	3242.5	3185.1	3170.8	3183.1	3172.9
27.5°	3305.9	3328.4	3320.2	3353.0	3424.6	3441.0	3375.5	3308.0	3269.1	3254.7	3273.2
30°	3484.0	3457.4	3463.5	3498.3	3561.8	3615.0	3514.7	3443.1	3389.8	3387.8	3396.0
32.5°	3602.7	3623.2	3641.6	3674.4	3774.7	3815.6	3694.8	3578.2	3545.4	3527.0	3533.1
35°	3840.2	3821.8	3817.7	3850.4	3950.7	4018.3	3866.8	3764.4	3721.5	3762.4	3762.4
37.5°	4065.3	4014.2	3975.3	4018.3	4110.4	4118.6	3989.6	3934.3	3911.8	3958.9	3956.9
40°	4171.8	4167.7	4077.6	4102.2	4225.0	4237.3	4116.5	4051.0	4046.9	4108.3	4169.7
42.5°	4282.3	4243.4	4153.4	4169.7	4245.5	4249.6	4134.9	4116.5	4161.6	4220.9	4225.0
45°	4300.8	4268.0	4210.7	4169.7	4225.0	4237.3	4169.7	4182.0	4186.1	4257.8	4257.8
47.5°	4337.6	4333.5	4300.8	4270.0	4280.3	4270.0	4227.1	4245.5	4306.9	4341.7	4325.3
50°	4439.9	4397.0	4429.7	4403.1	4405.2	4433.8	4394.9	4413.3	4401.1	4370.4	4349.9
52.5°	4665.1	4644.6	4673.3	4691.7	4712.2	4777.7	4732.7	4634.4	4542.3	4460.4	4458.4
55°	4994.7	5009.0	5064.3	5158.4	5238.3	5342.7	5125.7	4890.3	4742.9	4613.9	4622.1
57.5°	5305.8	5295.6	5371.3	5586.3	5819.6	5872.9	5447.1	5111.4	4871.9	4790.0	4755.2
59°	5056.1	5105.2	5277.2	5516.7	5883.1	5960.9	5404.1	4931.2	4677.4	4511.6	4540.3
60°	4663.1	4681.5	4835.0	5168.7	5664.1	5797.1	5115.5	4652.8	4315.1	4218.9	4261.9
62.5°	3295.7	3281.3	3391.9	3664.1	4108.3	4288.5	3803.3	3477.9	3265.0	3158.5	3183.1
65°	1752.2	1817.7	1862.8	2032.7	2268.1	2458.5	2257.8	2116.6	1997.9	1909.9	1907.8
67.5°	1183.2	1175.0	1185.2	1224.1	1303.9	1357.2	1353.1	1281.4	1271.2	1254.8	1273.2
70°	996.9	992.8	974.4	974.4	990.7	1003.0	1017.4	1025.5	1041.9	1062.4	1060.3
72.5°	808.6	798.3	786.0	779.9	800.4	806.5	824.9	833.1	847.5	845.4	863.8
75°	534.3	534.3	548.6	565.0	571.1	583.4	585.4	610.0	610.0	614.1	597.7
77.5°	298.9	290.7	300.9	317.3	331.6	354.1	376.6	395.1	405.3	401.2	401.2
80°	174.0	174.0	184.2	202.7	221.1	241.5	257.9	272.3	282.5	278.4	270.2
82.5°	108.5	108.5	118.7	137.1	151.5	163.8	186.3	204.7	217.0	212.9	202.7
85°	55.3	55.3	67.6	79.8	98.3	106.4	104.4	96.2	94.2	83.9	83.9
87.5°	14.3	14.3	20.5	22.5	18.4	20.5	20.5	20.5	20.5	20.5	22.5
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)