

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: P532823

Luminaire Tested: **GALN-SA8B-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532823  
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-SA8B-727-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 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: 23062 lumens  
Efficiency: N/A  
Efficacy: 71.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

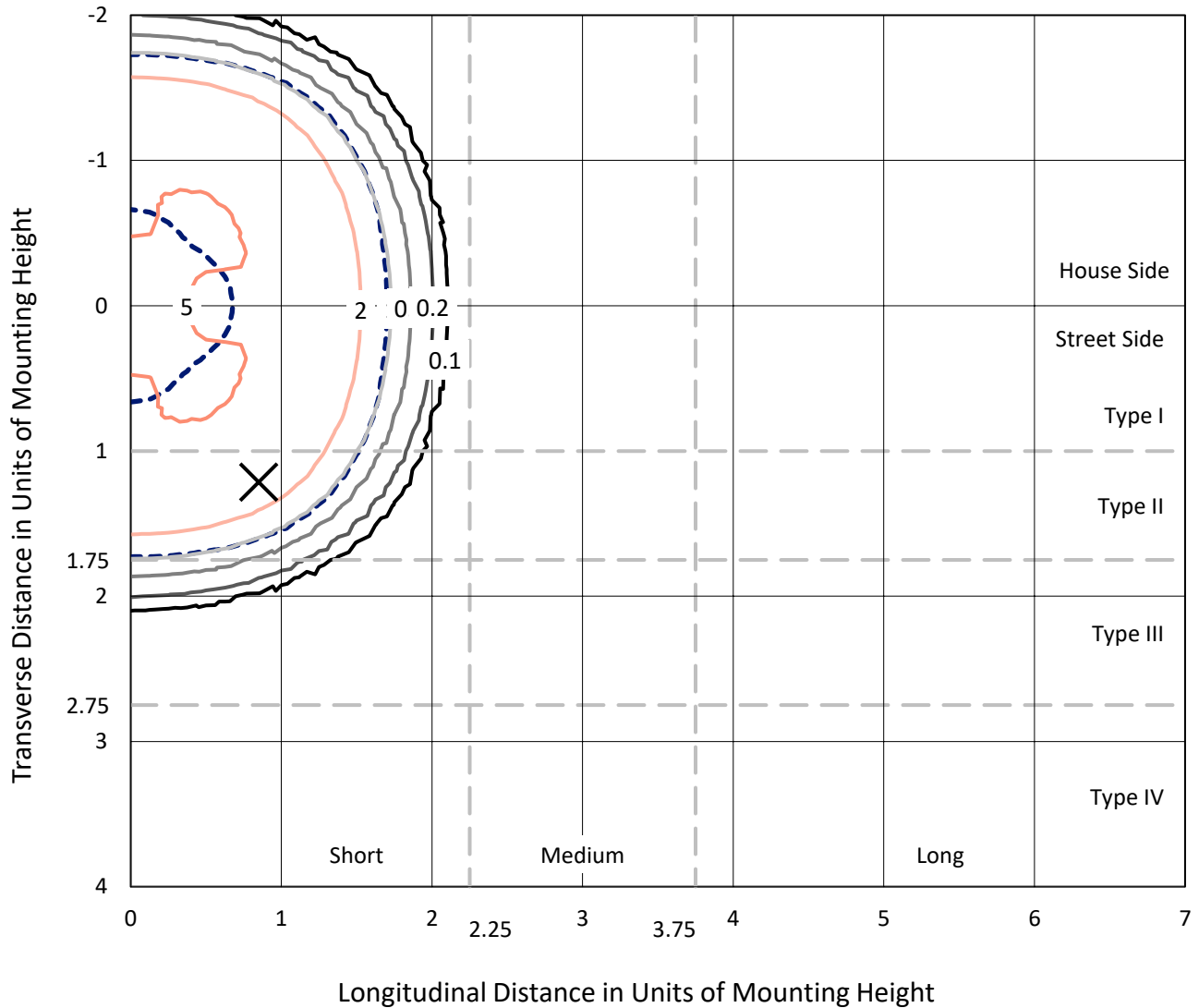
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

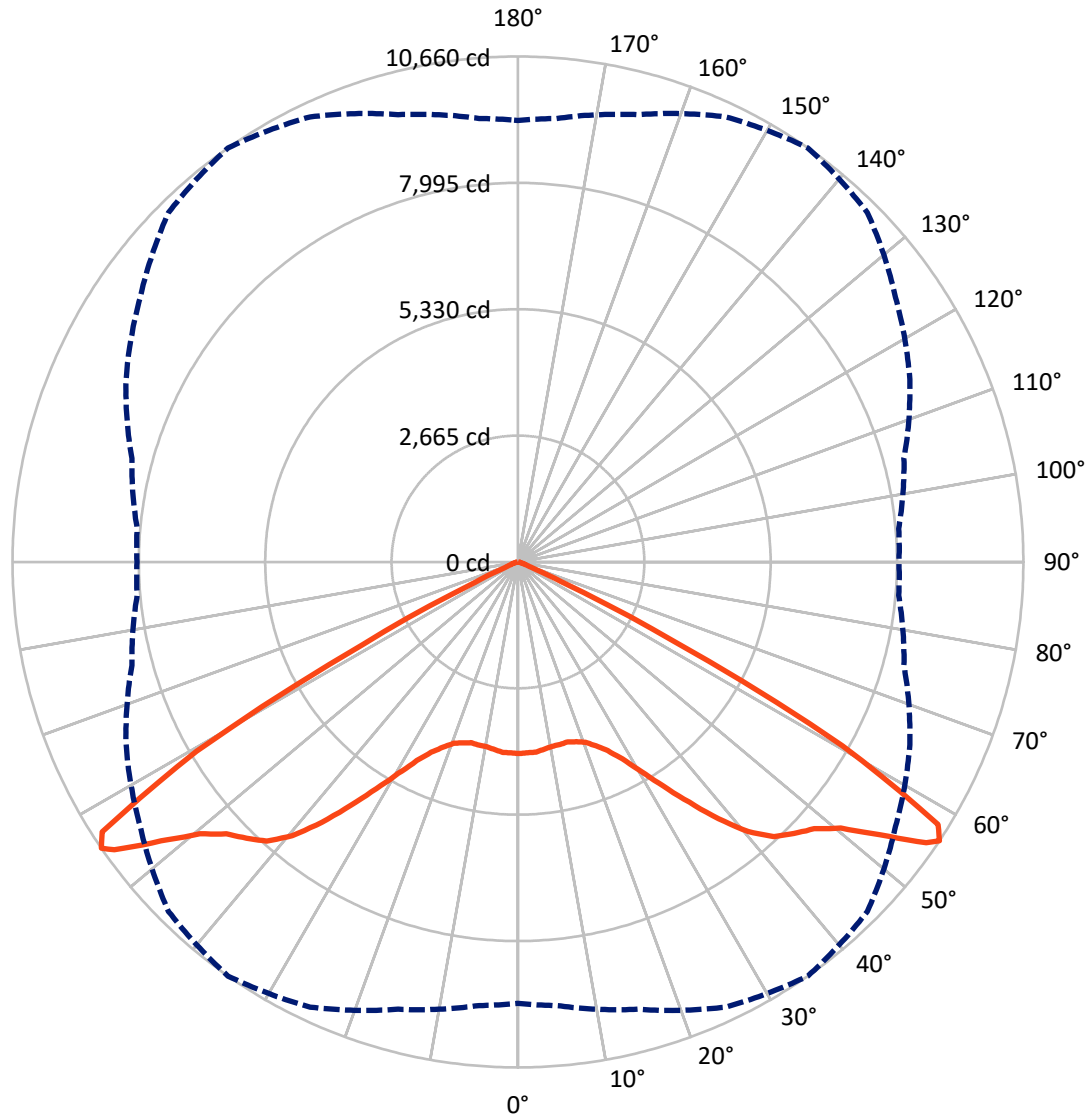
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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
<b>House Side</b>	Lumens	11531.0	0.0	11531.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11531.0	0.0	11531.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23062.0	0.0	23062.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.8	1.6
10°-20°	1108.8	4.8
20°-30°	2007.9	8.7
30°-40°	3723.3	16.1
40°-50°	6111.6	26.5
50°-60°	7873.5	34.1
60°-70°	1735.2	7.5
70°-80°	100.7	0.4
80°-90°	21.2	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°	23062.0	100.0
0°-180°	23062.0	100.0

**Coefficient of Utilization**



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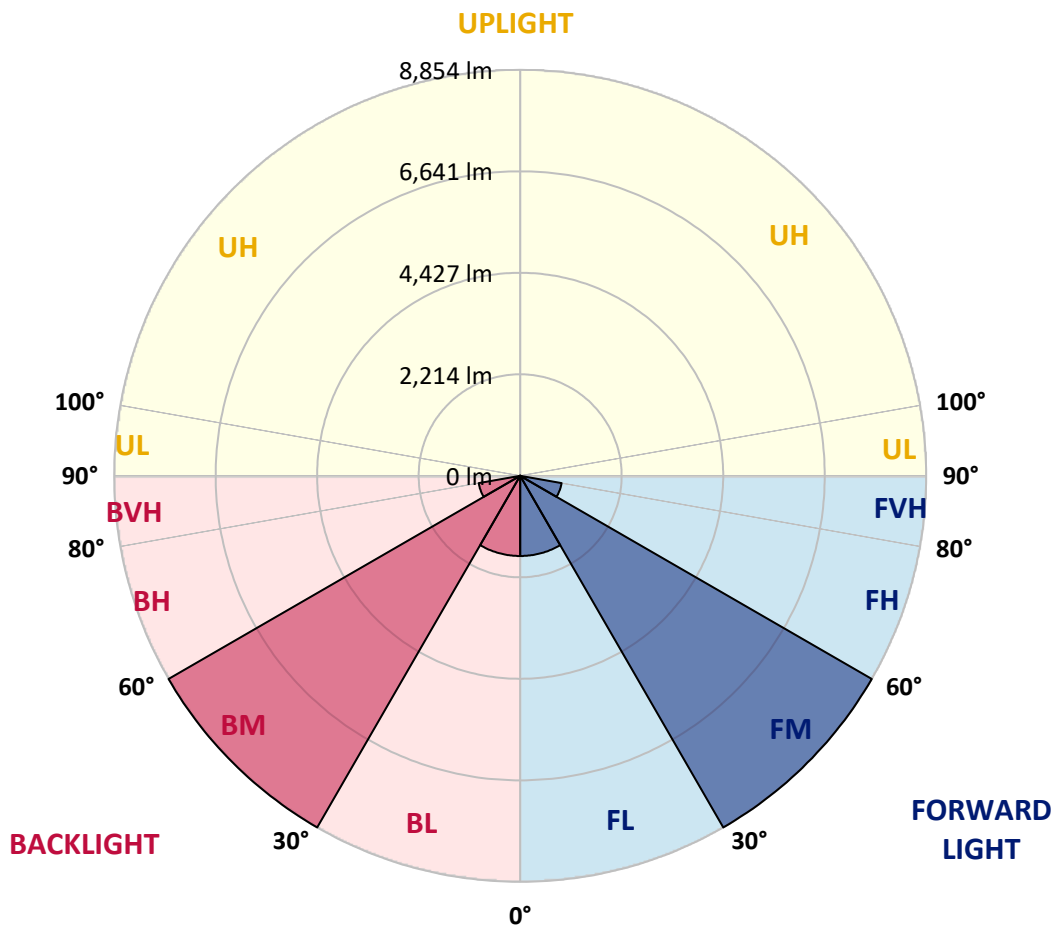
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1748.2	7.6			
FM (30°-60°)	8854.2	38.4			
FH (60°-80°)	918.0	4.0			G1/1800
FVH (80°-90°)	10.6	0.0			G1/100
BL (0°-30°)	1748.2	7.6	B3/2500		
BM (30°-60°)	8854.2	38.4	B5		
BH (60°-80°)	918.0	4.0	B2/1000		G1/1800
BVH (80°-90°)	10.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0	4041.0
2.5°	4049.3	4049.3	4053.5	4057.7	4028.4	4015.9	4020.1	4011.7	4007.5	4020.1	4020.1
5°	4036.8	4036.8	4024.2	4028.4	4028.4	3990.8	3990.8	3999.2	3999.2	3974.1	3965.7
7.5°	4003.3	3995.0	3978.3	3999.2	3986.6	3986.6	3957.4	3936.5	3928.1	3944.8	3928.1
10°	3932.3	3936.5	3953.2	3961.6	3953.2	3978.3	3928.1	3898.9	3869.6	3857.1	3857.1
12.5°	3898.9	3924.0	3898.9	3919.8	3949.0	3928.1	3898.9	3878.0	3836.2	3819.5	3819.5
15°	3894.7	3911.4	3919.8	3949.0	3936.5	3944.8	3886.3	3861.3	3798.6	3769.3	3756.8
17.5°	3890.5	3911.4	3924.0	3978.3	3986.6	3990.8	3944.8	3869.6	3815.3	3786.0	3756.8
20°	3936.5	3944.8	3969.9	4024.2	4057.7	4116.2	4032.6	3953.2	3836.2	3802.8	3790.2
22.5°	3995.0	4036.8	4061.9	4120.4	4208.1	4258.3	4149.6	4049.3	3928.1	3886.3	3836.2
25°	4183.0	4174.7	4216.5	4337.7	4408.7	4446.3	4358.6	4212.3	4053.5	4003.3	4011.7
27.5°	4417.1	4425.4	4463.0	4596.7	4701.2	4759.7	4655.3	4463.0	4308.4	4224.8	4216.5
30°	4722.1	4713.8	4755.5	4935.2	5123.3	5211.0	5027.2	4801.5	4651.1	4542.4	4567.5
32.5°	5043.9	5048.1	5165.1	5328.0	5633.1	5804.4	5507.7	5231.9	5006.3	4931.1	4893.4
35°	5520.3	5541.2	5633.1	5883.8	6222.3	6443.8	6117.9	5787.7	5528.6	5390.7	5407.4
37.5°	6109.5	6088.6	6243.2	6514.8	6870.0	7033.0	6757.2	6381.1	6117.9	6025.9	6084.4
40°	6736.3	6757.2	6836.6	7083.2	7480.2	7588.8	7179.3	6974.5	6744.7	6698.7	6769.8
42.5°	7363.2	7350.6	7409.1	7630.6	7918.9	7843.7	7601.3	7480.2	7317.2	7225.3	7321.4
45°	7822.8	7801.9	7910.6	8061.0	8165.5	8023.4	7914.8	7873.0	7789.4	7689.1	7776.9
47.5°	8270.0	8253.3	8357.7	8399.5	8407.9	8219.8	8240.7	8315.9	8107.0	7898.0	7998.3
50°	8650.2	8621.0	8750.5	8842.5	8821.6	8520.7	8595.9	8520.7	8194.7	7948.2	7910.6
52.5°	9285.4	9298.0	9435.9	9603.0	9552.9	9302.1	9193.5	8850.8	8432.9	8211.5	8081.9
55°	9686.6	9623.9	9862.1	10392.8	10451.3	10192.2	9711.7	9206.0	8579.2	8307.6	8274.1
56°	9310.5	9389.9	9766.0	10359.4	10660.3	10422.1	9724.2	9118.3	8428.8	8061.0	8035.9
57.5°	8353.5	8311.8	8821.6	9632.3	10451.3	10351.0	9381.5	8491.4	7689.1	7275.4	7225.3
60°	5198.5	5319.7	5766.8	6769.8	7864.6	7914.8	6953.6	6188.9	5252.8	4885.1	4972.8
62.5°	2035.1	1930.6	2210.6	2958.6	3710.8	3878.0	3514.4	2921.0	2398.7	2035.1	2010.0
65°	472.2	459.7	518.2	714.6	998.7	1157.5	1099.0	789.8	580.9	551.6	509.8
67.5°	267.4	267.4	254.9	254.9	280.0	296.7	284.2	280.0	292.5	305.1	300.9
70°	188.0	183.9	175.5	179.7	171.3	171.3	183.9	204.8	221.5	221.5	225.7
72.5°	112.8	112.8	112.8	125.4	125.4	125.4	137.9	154.6	158.8	154.6	150.4
75°	50.1	50.1	58.5	71.0	79.4	83.6	96.1	104.5	112.8	104.5	96.1
77.5°	12.5	12.5	20.9	29.3	37.6	46.0	62.7	75.2	79.4	75.2	62.7
80°	4.2	4.2	8.4	20.9	37.6	46.0	62.7	66.9	71.0	62.7	50.1
82.5°	4.2	4.2	8.4	20.9	29.3	37.6	50.1	58.5	62.7	54.3	50.1
85°	0.0	4.2	8.4	16.7	25.1	33.4	33.4	25.1	20.9	12.5	16.7
87.5°	0.0	0.0	4.2	4.2	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)