

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: P531913

Luminaire Tested: **GALN-SA7B-730-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531913  
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-SA7B-730-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 21662 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

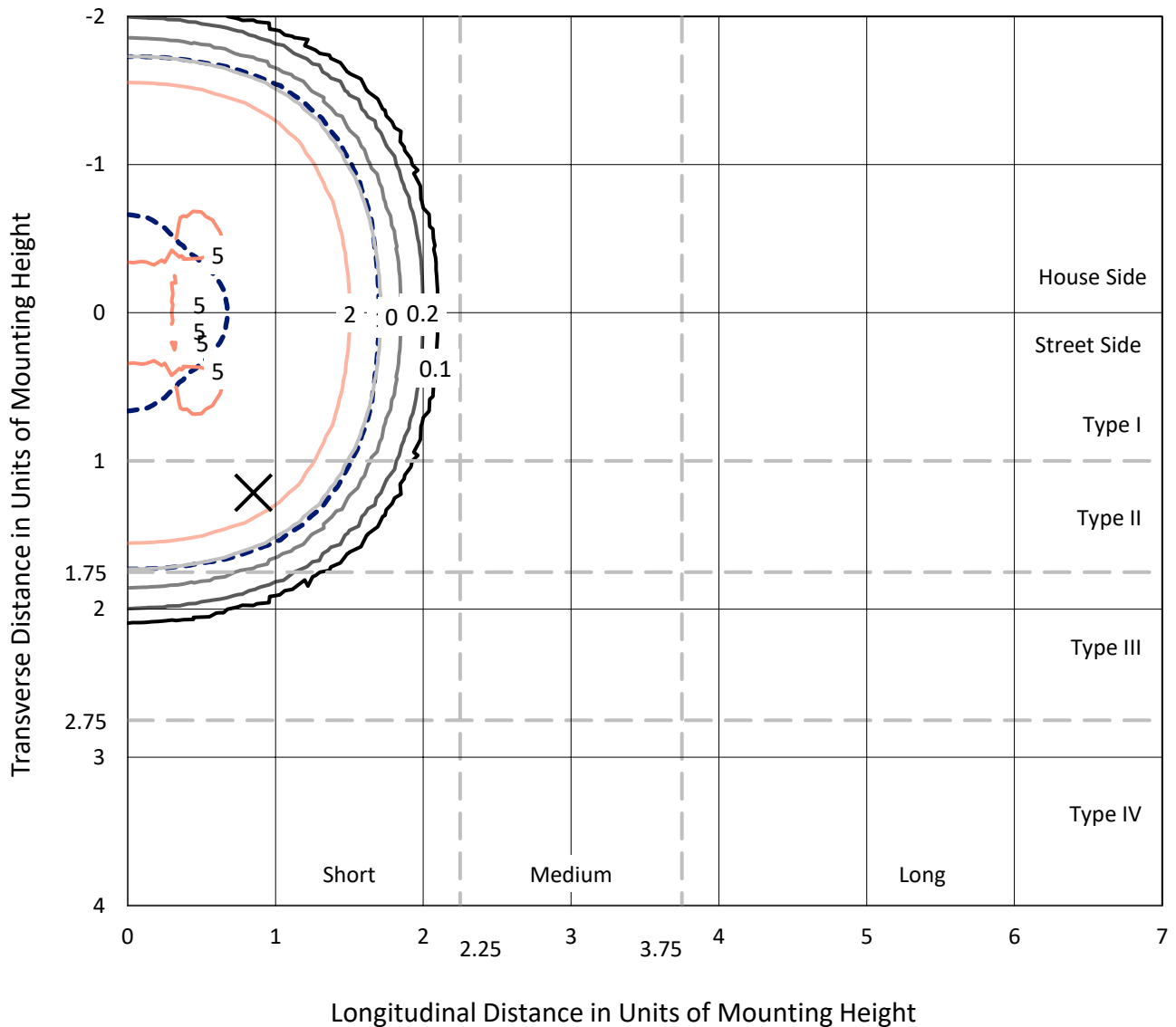
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

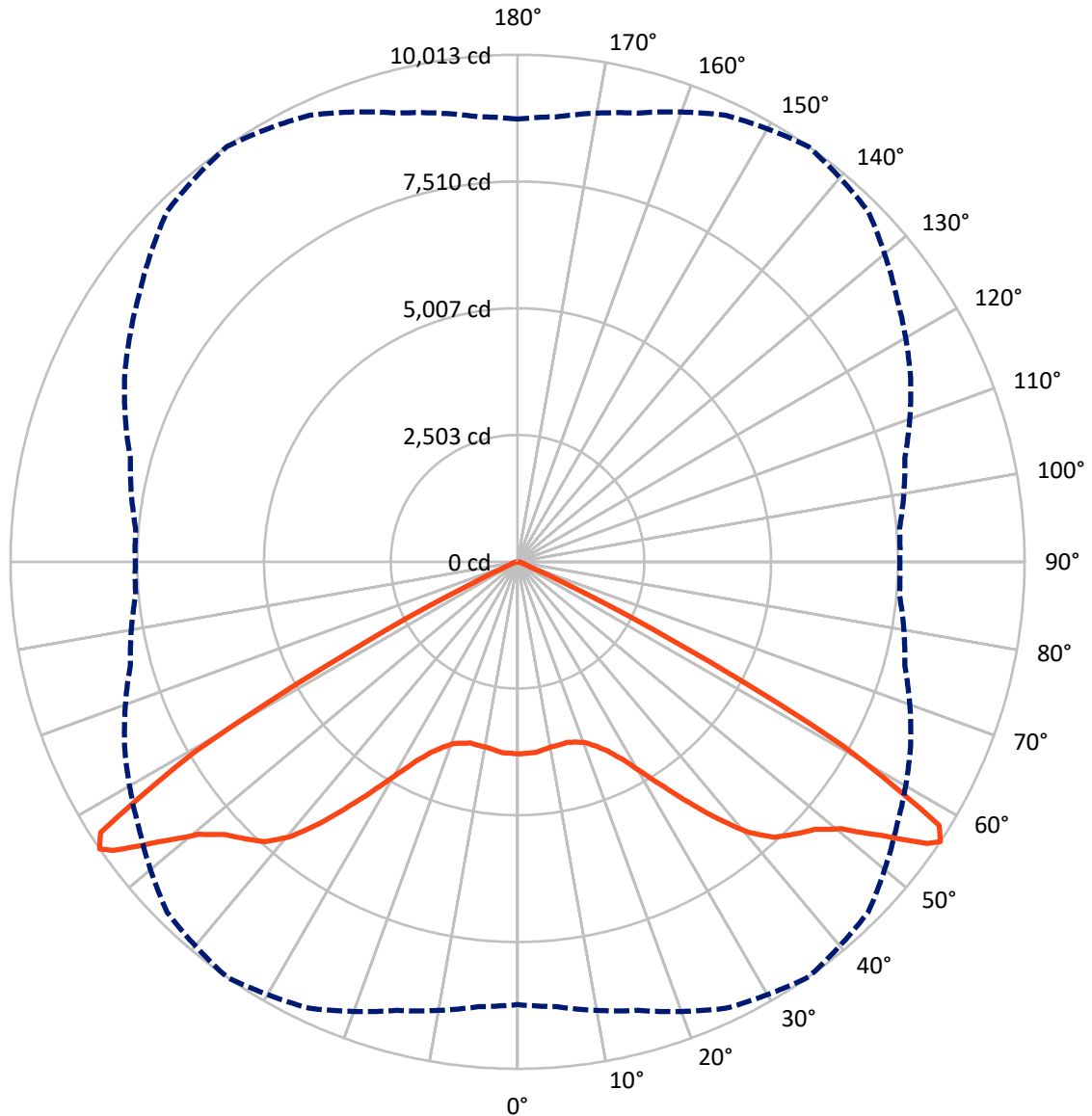
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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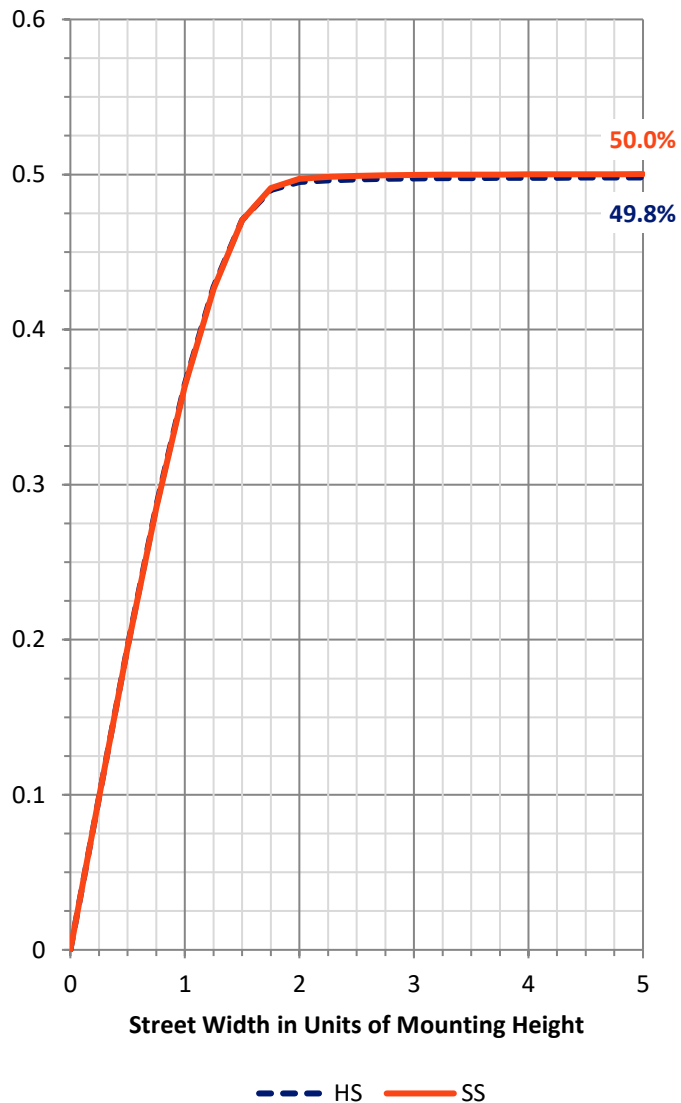
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10831.0	0.0	10831.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10831.0	0.0	10831.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21662.0	0.0	21662.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.7	1.6
10°-20°	1041.5	4.8
20°-30°	1886.0	8.7
30°-40°	3497.3	16.1
40°-50°	5740.6	26.5
50°-60°	7395.6	34.1
60°-70°	1629.9	7.5
70°-80°	94.6	0.4
80°-90°	19.9	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°	21662.0	100.0
0°-180°	21662.0	100.0

**Coefficient of Utilization**



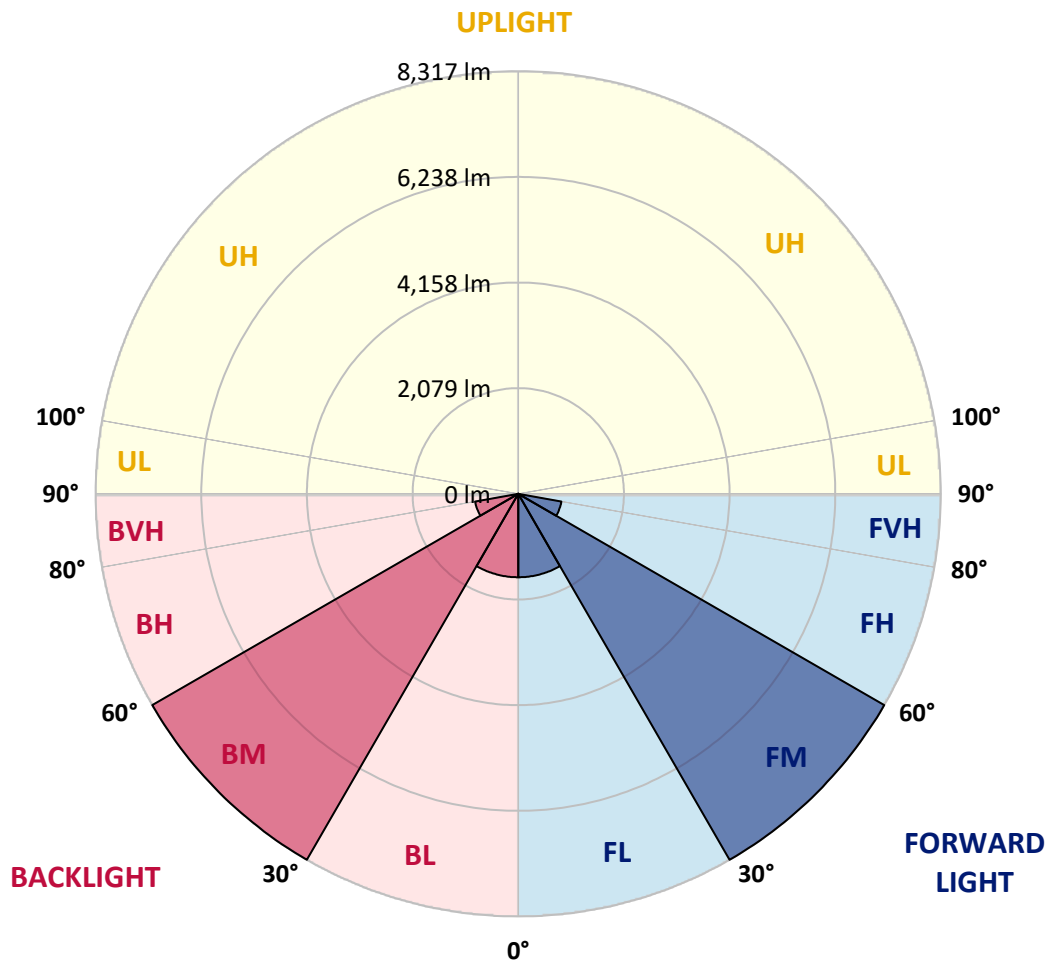
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1642.1	7.6			
FM (30°-60°)	8316.7	38.4			
FH (60°-80°)	862.2	4.0			G1/1800
FVH (80°-90°)	10.0	0.0			G0/10
BL (0°-30°)	1642.1	7.6	B3/2500		
BM (30°-60°)	8316.7	38.4	B4/8500		
BH (60°-80°)	862.2	4.0	B2/1000		G1/1800
BVH (80°-90°)	10.0	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3795.6	3795.6	3795.6	3795.6	3795.6	3795.6	3795.6	3795.6	3795.6	3795.6	3795.6
2.5°	3803.5	3803.5	3807.4	3811.3	3783.9	3772.1	3776.0	3768.2	3764.2	3776.0	3776.0
5°	3791.7	3791.7	3779.9	3783.9	3783.9	3748.5	3748.5	3756.4	3756.4	3732.8	3725.0
7.5°	3760.3	3752.5	3736.8	3756.4	3744.6	3744.6	3717.1	3697.5	3689.7	3705.4	3689.7
10°	3693.6	3697.5	3713.2	3721.1	3713.2	3736.8	3689.7	3662.2	3634.7	3622.9	3622.9
12.5°	3662.2	3685.7	3662.2	3681.8	3709.3	3689.7	3662.2	3642.6	3603.3	3587.6	3587.6
15°	3658.3	3674.0	3681.8	3709.3	3697.5	3705.4	3650.4	3626.9	3568.0	3540.5	3528.7
17.5°	3654.3	3674.0	3685.7	3736.8	3744.6	3748.5	3705.4	3634.7	3583.7	3556.2	3528.7
20°	3697.5	3705.4	3728.9	3779.9	3811.3	3866.3	3787.8	3713.2	3603.3	3571.9	3560.1
22.5°	3752.5	3791.7	3815.3	3870.2	3952.7	3999.8	3897.7	3803.5	3689.7	3650.4	3603.3
25°	3929.1	3921.3	3960.5	4074.3	4141.1	4176.4	4094.0	3956.6	3807.4	3760.3	3768.2
27.5°	4148.9	4156.8	4192.1	4317.7	4415.8	4470.8	4372.6	4192.1	4046.9	3968.4	3960.5
30°	4435.5	4427.6	4466.9	4635.6	4812.3	4894.7	4722.0	4510.0	4368.7	4266.7	4290.2
32.5°	4737.7	4741.6	4851.5	5004.6	5291.1	5452.1	5173.4	4914.3	4702.4	4631.7	4596.4
35°	5185.2	5204.8	5291.1	5526.7	5844.6	6052.6	5746.5	5436.4	5193.0	5063.5	5079.2
37.5°	5738.6	5719.0	5864.2	6119.4	6453.0	6606.1	6347.0	5993.7	5746.5	5660.1	5715.1
40°	6327.4	6347.0	6421.6	6653.2	7026.1	7128.1	6743.5	6551.1	6335.2	6292.1	6358.8
42.5°	6916.2	6904.4	6959.3	7167.4	7438.2	7367.6	7139.9	7026.1	6873.0	6786.6	6876.9
45°	7347.9	7328.3	7430.4	7571.7	7669.8	7536.3	7434.3	7395.0	7316.5	7222.3	7304.8
47.5°	7767.9	7752.2	7850.4	7889.6	7897.5	7720.8	7740.5	7811.1	7614.8	7418.6	7512.8
50°	8125.1	8097.6	8219.3	8305.7	8286.1	8003.4	8074.1	8003.4	7697.3	7465.7	7430.4
52.5°	8721.7	8733.5	8863.1	9020.1	8973.0	8737.4	8635.4	8313.5	7921.0	7713.0	7591.3
55°	9098.6	9039.7	9263.4	9761.9	9816.9	9573.5	9122.1	8647.2	8058.4	7803.3	7771.9
56°	8745.3	8819.9	9173.1	9730.5	10013.1	9789.4	9133.9	8564.7	7917.1	7571.7	7548.1
57.5°	7846.4	7807.2	8286.1	9047.5	9816.9	9722.7	8812.0	7976.0	7222.3	6833.7	6786.6
60°	4882.9	4996.8	5416.7	6358.8	7387.2	7434.3	6531.5	5813.2	4934.0	4588.5	4671.0
62.5°	1911.6	1813.4	2076.4	2779.0	3485.6	3642.6	3301.1	2743.7	2253.1	1911.6	1888.0
65°	443.5	431.8	486.7	671.2	938.1	1087.3	1032.3	741.9	545.6	518.1	478.9
67.5°	251.2	251.2	239.4	239.4	263.0	278.7	266.9	263.0	274.8	286.5	282.6
70°	176.6	172.7	164.9	168.8	160.9	160.9	172.7	192.3	208.0	208.0	212.0
72.5°	106.0	106.0	106.0	117.8	117.8	117.8	129.5	145.2	149.2	145.2	141.3
75°	47.1	47.1	55.0	66.7	74.6	78.5	90.3	98.1	106.0	98.1	90.3
77.5°	11.8	11.8	19.6	27.5	35.3	43.2	58.9	70.7	74.6	70.7	58.9
80°	3.9	3.9	7.9	19.6	35.3	43.2	58.9	62.8	66.7	58.9	47.1
82.5°	3.9	3.9	7.9	19.6	27.5	35.3	47.1	55.0	58.9	51.0	47.1
85°	0.0	3.9	7.9	15.7	23.6	31.4	31.4	23.6	19.6	11.8	15.7
87.5°	0.0	0.0	3.9	3.9	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)