

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: P531889

Luminaire Tested: **GALN-SA7B-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-727-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22770 lumens  
Efficiency: N/A  
Efficacy: 79.6 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

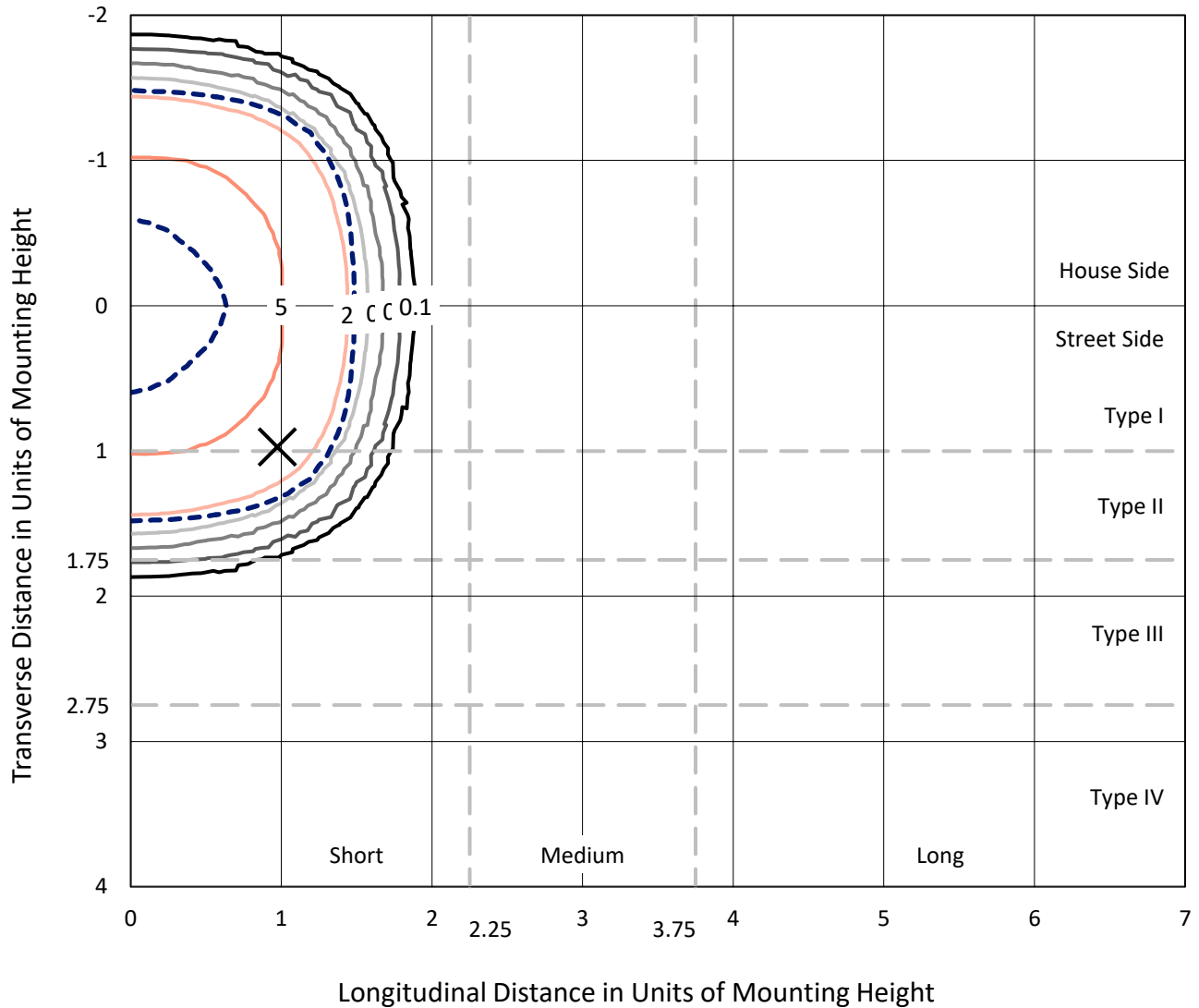
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

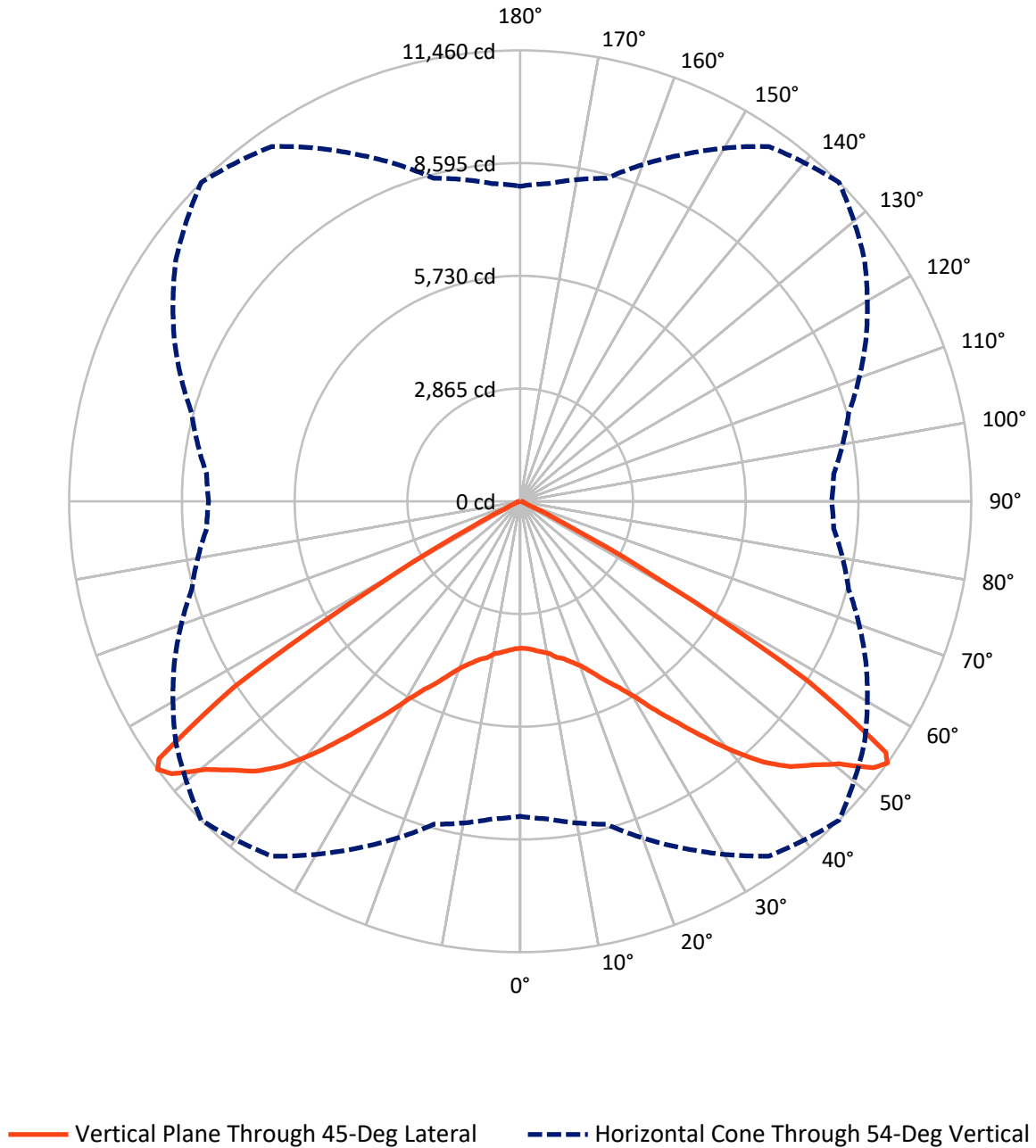
✕ Max cd  
 - - - 1/2 Max cd



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



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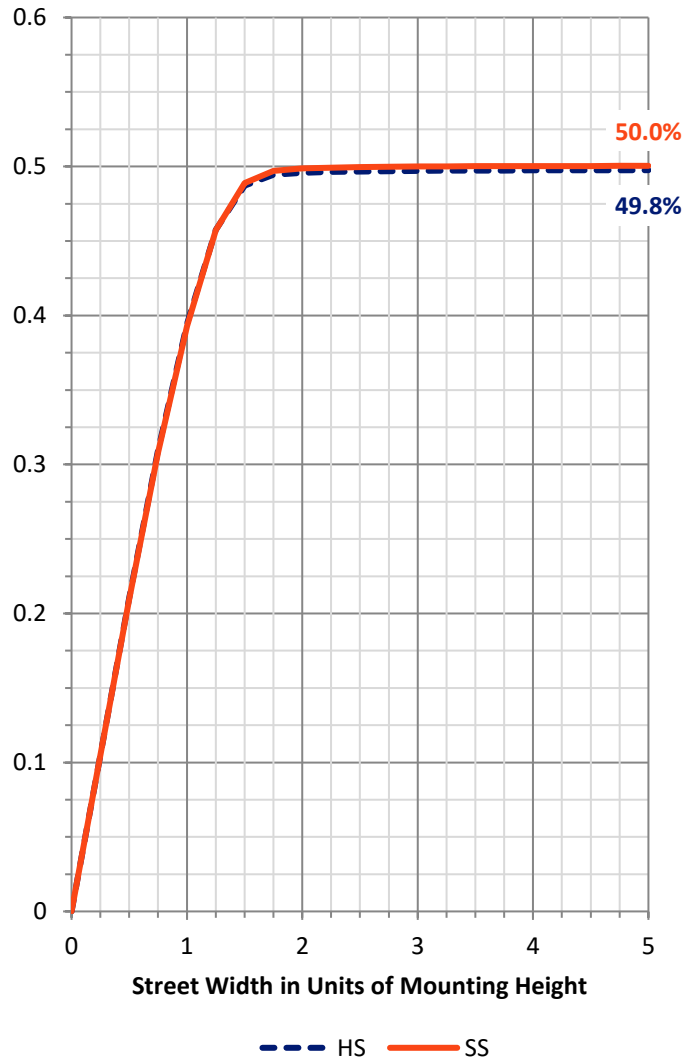
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11385.0	0.0	11385.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11385.0	0.0	11385.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22770.0	0.0	22770.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.4	1.6
10°-20°	1183.4	5.2
20°-30°	2319.4	10.2
30°-40°	4170.7	18.3
40°-50°	7139.5	31.4
50°-60°	6908.1	30.3
60°-70°	591.4	2.6
70°-80°	70.1	0.3
80°-90°	22.0	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°	22770.0	100.0
0°-180°	22770.0	100.0



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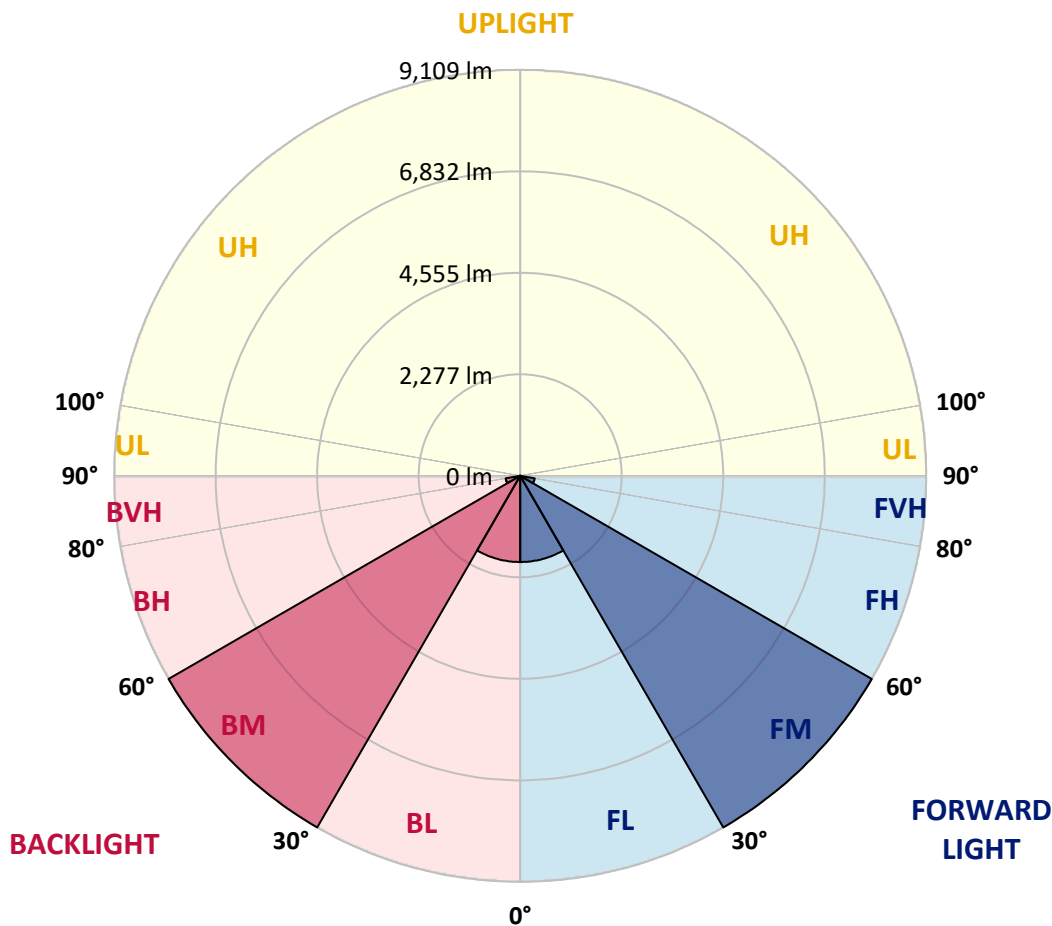
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1934.1	8.5			
FM (30°-60°)	9109.2	40.0			
FH (60°-80°)	330.7	1.5			G0/660
FVH (80°-90°)	11.0	0.0			G1/100
BL (0°-30°)	1934.1	8.5	B3/2500		
BM (30°-60°)	9109.2	40.0	B5		
BH (60°-80°)	330.7	1.5	B1/500		G0/660
BVH (80°-90°)	11.0	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°	3733.6	3733.6	3733.6	3733.6	3733.6	3733.6	3733.6	3733.6	3733.6	3733.6	3733.6
2.5°	3751.6	3773.3	3758.8	3769.6	3769.6	3751.6	3762.4	3719.1	3748.0	3726.4	3730.0
5°	3809.3	3805.7	3805.7	3809.3	3794.9	3802.1	3787.7	3773.3	3762.4	3748.0	3791.3
7.5°	3881.5	3881.5	3856.2	3863.4	3856.2	3867.0	3838.2	3809.3	3798.5	3787.7	3780.5
10°	3950.0	3942.8	3932.0	3964.4	3939.2	3924.8	3910.3	3892.3	3852.6	3838.2	3823.8
12.5°	4051.0	4047.4	4033.0	4065.4	4051.0	4065.4	4011.3	3964.4	3957.2	3910.3	3935.6
15°	4170.1	4202.5	4177.3	4177.3	4170.1	4152.0	4130.4	4108.7	4043.8	4025.8	4029.4
17.5°	4325.2	4314.3	4318.0	4318.0	4354.0	4307.1	4263.8	4209.7	4177.3	4166.4	4130.4
20°	4473.1	4487.5	4483.9	4509.1	4530.8	4480.3	4433.4	4426.2	4336.0	4350.4	4299.9
22.5°	4732.8	4722.0	4740.0	4758.0	4743.6	4736.4	4693.1	4639.0	4559.6	4523.6	4516.4
25°	5007.0	4988.9	4956.5	4999.7	5021.4	5053.8	4970.9	4942.0	4819.4	4765.3	4768.9
27.5°	5241.4	5266.7	5302.8	5320.8	5374.9	5364.1	5306.4	5212.6	5118.8	5057.5	5017.8
30°	5562.5	5576.9	5638.2	5663.5	5757.3	5782.5	5692.3	5584.1	5418.2	5338.8	5291.9
32.5°	5858.3	5959.3	5955.7	6081.9	6233.4	6338.1	6175.7	6009.8	5843.8	5750.1	5667.1
35°	6338.1	6320.0	6424.6	6558.1	6803.4	6922.4	6745.7	6554.5	6302.0	6150.5	6085.5
37.5°	6785.4	6792.6	6933.3	7146.1	7427.5	7611.4	7456.3	7142.5	6882.8	6688.0	6597.8
40°	7434.7	7449.1	7593.4	7835.1	8152.5	8350.9	8170.6	7853.1	7506.8	7355.3	7355.3
42.5°	8195.8	8257.1	8350.9	8560.2	8845.1	9065.2	8902.9	8653.9	8304.0	8109.2	8138.1
45°	8978.6	9007.5	9068.8	9379.0	9512.5	9620.7	9469.2	9353.8	9119.3	8881.2	8841.5
47.5°	9710.9	9721.7	9902.1	9999.5	10104.1	10013.9	10111.3	9959.8	9696.5	9465.6	9418.7
50°	10035.5	10017.5	10273.6	10569.4	10648.8	10490.1	10407.1	10306.1	9905.7	9627.9	9505.3
52.5°	9090.4	9195.0	9671.2	10493.7	11114.1	11247.6	10764.2	10298.9	9552.2	9011.1	8928.1
54°	8008.2	8105.6	8498.8	9718.1	11009.5	11460.4	10681.3	9692.9	8639.5	7997.4	7914.4
55°	6936.9	6828.6	7542.9	8787.4	10518.9	11272.9	10353.0	8910.1	7705.2	7117.2	7001.8
57.5°	3755.2	3773.3	4375.7	5551.7	7391.4	8643.1	7633.1	6027.8	4552.4	3892.3	3834.6
60°	1190.4	1219.3	1482.6	2243.7	3531.6	4217.0	3614.5	2420.5	1673.8	1341.9	1287.8
62.5°	371.6	386.0	422.1	627.7	966.8	1381.6	1082.2	649.3	483.4	443.7	450.9
65°	227.3	227.3	230.9	245.3	288.6	335.5	324.7	285.0	274.2	266.9	263.3
67.5°	147.9	144.3	151.5	162.3	169.5	173.2	184.0	194.8	191.2	184.0	184.0
70°	90.2	86.6	93.8	108.2	111.8	119.0	129.9	144.3	140.7	133.5	137.1
72.5°	50.5	50.5	54.1	64.9	75.8	83.0	93.8	104.6	108.2	104.6	104.6
75°	18.0	21.6	28.9	39.7	46.9	57.7	68.5	79.4	90.2	83.0	79.4
77.5°	7.2	7.2	14.4	25.3	36.1	46.9	64.9	75.8	83.0	75.8	68.5
80°	3.6	3.6	10.8	21.6	32.5	43.3	54.1	64.9	68.5	61.3	54.1
82.5°	3.6	3.6	10.8	21.6	32.5	39.7	57.7	64.9	72.1	64.9	54.1
85°	0.0	3.6	10.8	21.6	28.9	32.5	32.5	21.6	18.0	10.8	10.8
87.5°	0.0	0.0	3.6	0.0	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)