

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: P456227

Luminaire Tested: **GALN-SA7C-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42252 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

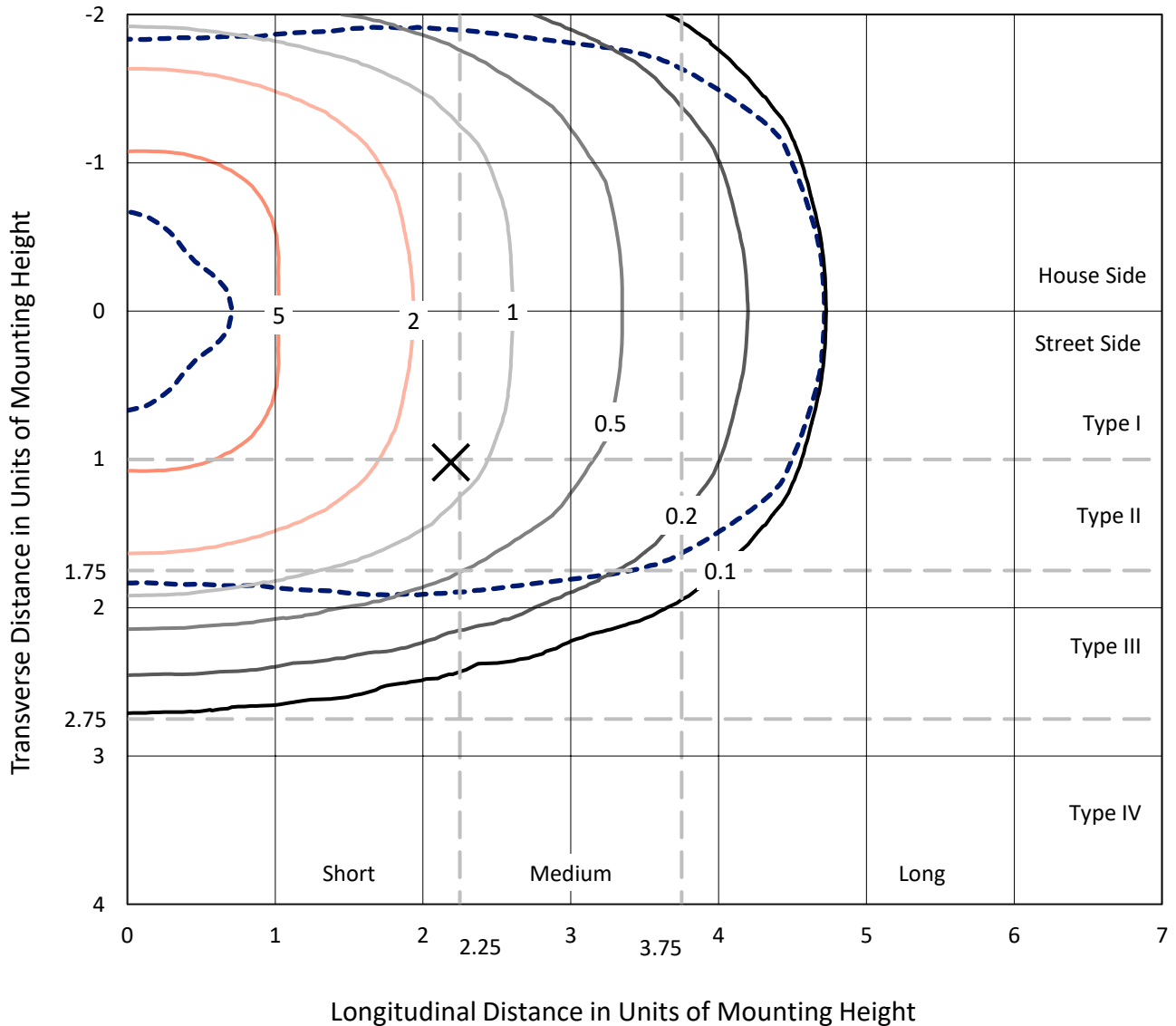
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

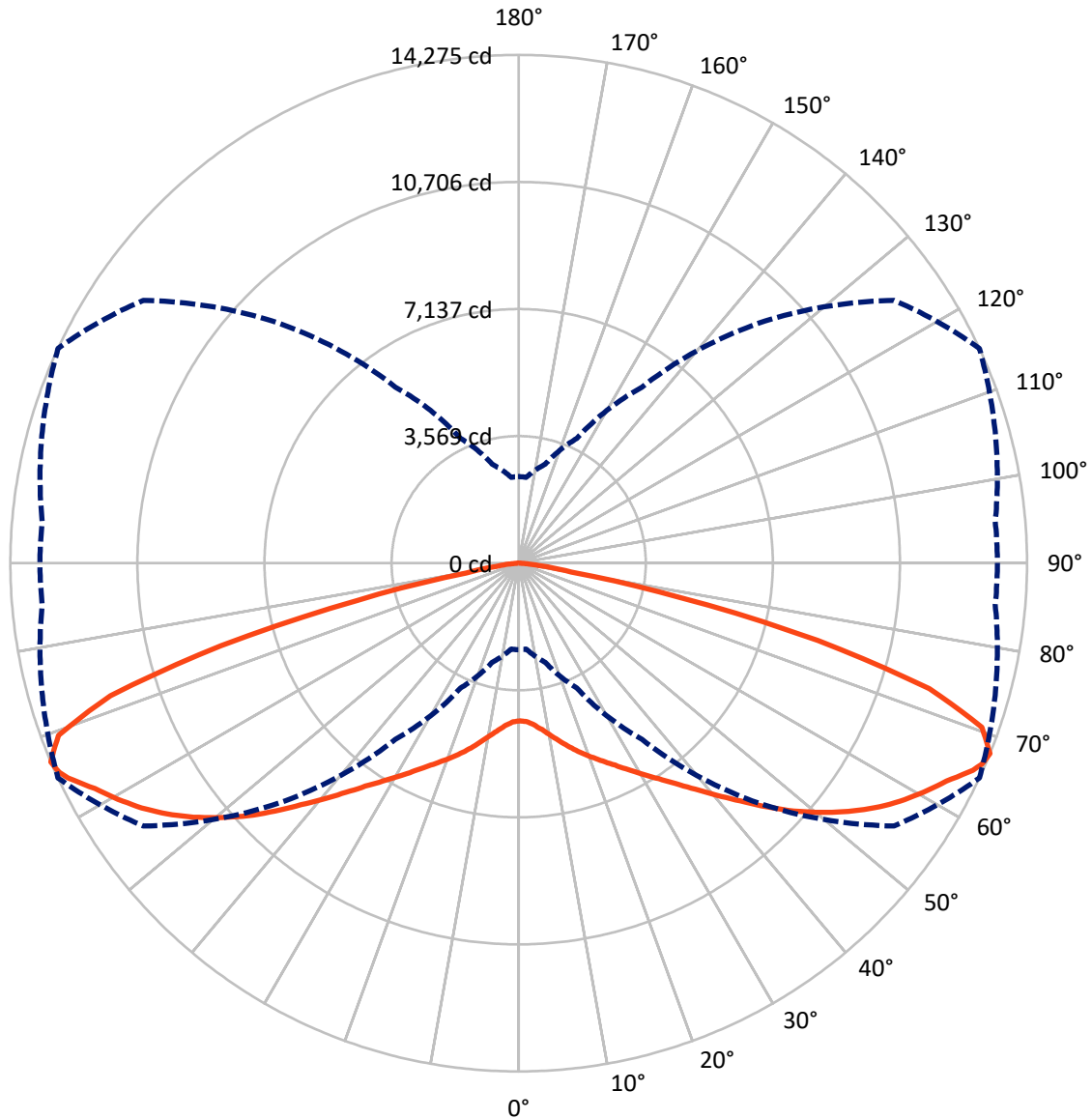
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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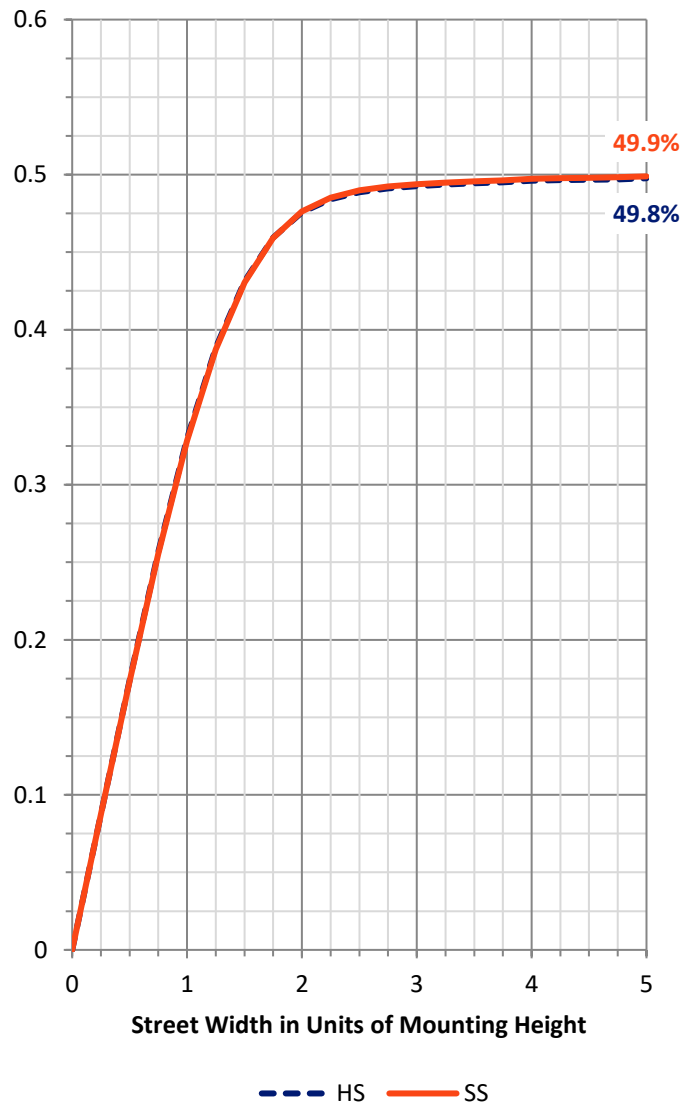
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21126.0	0.0	21126.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21126.0	0.0	21126.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42252.0	0.0	42252.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.5	1.0
10°-20°	1460.8	3.5
20°-30°	2857.5	6.8
30°-40°	4860.3	11.5
40°-50°	7692.3	18.2
50°-60°	10199.9	24.1
60°-70°	9621.6	22.8
70°-80°	4756.5	11.3
80°-90°	366.6	0.9
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°	42252.0	100.0
0°-180°	42252.0	100.0



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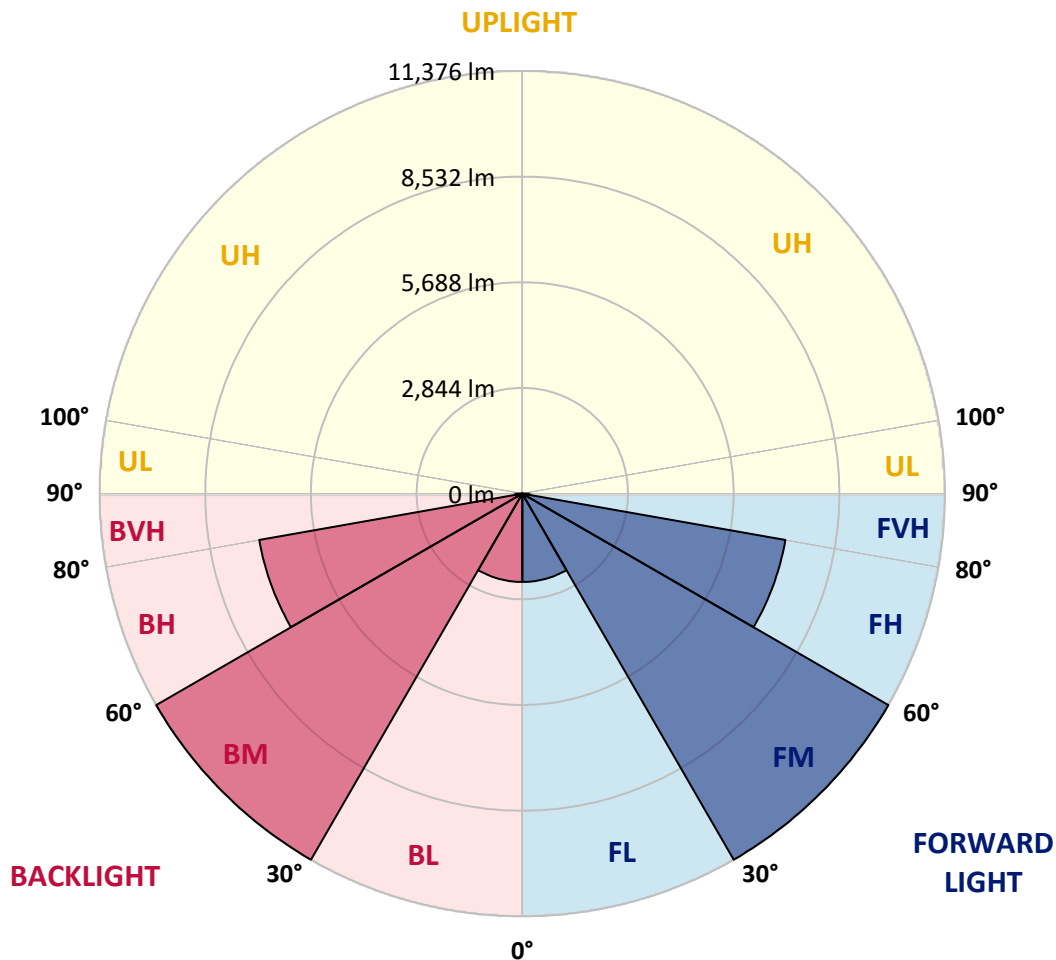
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2377.4	5.6			
FM	(30°-60°)	11376.2	26.9			
FH	(60°-80°)	7189.0	17.0			G3/7500
FVH	(80°-90°)	183.3	0.4			G2/225
BL	(0°-30°)	2377.4	5.6	B3/2500		
BM	(30°-60°)	11376.2	26.9	B5		
BH	(60°-80°)	7189.0	17.0	B5		G5
BVH	(80°-90°)	183.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4425.5	4425.5	4425.5	4425.5	4425.5	4425.5	4425.5	4425.5	4425.5	4425.5	4425.5
2.5°	4402.9	4407.4	4411.9	4418.7	4427.8	4441.4	4450.4	4457.2	4475.3	4477.6	4475.3
5°	4387.0	4391.6	4402.9	4423.3	4452.7	4493.4	4525.1	4563.6	4593.0	4613.4	4608.9
7.5°	4384.8	4393.8	4411.9	4455.0	4511.5	4581.7	4654.2	4719.8	4776.4	4821.7	4814.9
10°	4421.0	4432.3	4461.7	4525.1	4613.4	4715.3	4817.1	4914.5	4996.0	5054.8	5075.2
12.5°	4482.1	4491.2	4545.5	4640.6	4767.3	4894.1	5009.6	5129.5	5242.7	5342.3	5342.3
15°	4588.5	4604.4	4672.3	4810.4	4966.5	5113.7	5231.4	5358.2	5480.4	5593.6	5627.5
17.5°	4735.7	4758.3	4860.2	5036.7	5235.9	5371.7	5482.7	5586.8	5693.2	5801.9	5817.7
20°	4937.1	4959.8	5095.6	5308.4	5543.8	5706.8	5781.5	5806.4	5858.4	5962.6	5976.2
22.5°	5211.0	5233.7	5385.3	5625.3	5887.9	6064.4	6096.1	6037.3	6023.7	6105.2	6114.2
25°	5521.2	5541.5	5715.8	5973.9	6245.5	6437.9	6428.9	6284.0	6202.5	6252.3	6265.9
27.5°	5869.8	5899.2	6075.8	6342.9	6637.2	6806.9	6779.8	6569.2	6394.9	6385.9	6390.4
30°	6315.7	6347.4	6514.9	6770.7	7060.5	7216.7	7160.1	6877.1	6607.7	6517.2	6517.2
32.5°	6786.6	6865.8	7035.6	7302.7	7529.1	7642.2	7556.2	7216.7	6859.0	6732.2	6725.4
35°	7400.0	7443.0	7610.5	7870.9	8040.6	8128.9	7963.7	7599.2	7187.2	7037.8	7017.5
37.5°	7999.9	8036.1	8230.8	8479.8	8685.8	8681.3	8457.2	8054.2	7594.7	7427.2	7413.6
40°	8613.4	8651.8	8873.7	9102.3	9308.3	9290.2	9018.6	8568.1	8079.1	7891.2	7927.5
42.5°	9145.3	9188.3	9439.6	9765.6	9951.2	9946.7	9632.0	9125.0	8615.6	8448.1	8479.8
45°	9629.8	9668.2	9960.3	10333.8	10605.4	10639.4	10295.3	9758.8	9235.9	9020.8	9029.9
47.5°	9971.6	10044.0	10349.6	10777.5	11146.4	11266.4	10929.1	10403.9	9801.8	9577.7	9591.3
50°	10231.9	10277.2	10609.9	11096.6	11563.0	11812.0	11540.3	11001.6	10367.7	10130.0	10161.7
52.5°	10263.6	10317.9	10680.1	11241.5	11839.1	12217.2	12083.6	11585.6	10945.0	10700.5	10768.4
55°	10005.5	10037.2	10469.6	11151.0	11947.8	12518.2	12552.2	12128.9	11495.0	11309.4	11354.7
57.5°	9269.8	9351.3	9899.1	10727.7	11798.4	12679.0	12903.1	12622.4	12051.9	11868.6	11941.0
60°	8063.3	8144.8	8694.9	9745.2	11234.7	12604.3	13192.8	13059.3	12556.7	12409.6	12448.1
62.5°	6318.0	6311.2	6992.6	8280.6	10114.2	12237.5	13407.9	13480.3	13054.7	12869.1	12928.0
65°	4095.0	4115.4	4774.1	6161.8	8423.2	11304.9	13455.4	14016.8	13543.7	13263.0	13306.0
66°	3293.7	3354.8	3913.9	5192.9	7560.7	10693.7	13312.8	14175.3	13693.1	13353.5	13373.9
67.5°	2431.2	2419.9	2879.4	3866.4	6037.3	9532.4	12866.8	14274.9	13862.9	13435.0	13444.1
70°	1387.6	1385.4	1548.4	2123.3	3549.5	6711.9	10845.4	13797.2	14207.0	13729.3	13704.4
72.5°	1014.1	1007.3	1030.0	1172.6	1731.7	3388.8	7481.5	12058.7	14030.4	13681.8	13611.6
75°	851.1	846.6	842.1	860.2	971.1	1534.8	3970.5	8674.5	12174.2	12841.9	12769.5
77.5°	695.0	695.0	697.2	692.7	697.2	808.1	1645.7	4649.6	7413.6	8276.1	8477.5
80°	543.3	541.0	579.5	563.7	527.4	518.4	728.9	1496.3	2460.6	2447.1	2019.2
82.5°	400.7	373.5	441.4	430.1	389.4	330.5	425.6	638.4	821.7	534.2	396.1
85°	253.5	251.3	312.4	285.2	237.7	156.2	203.7	273.9	339.6	206.0	167.5
87.5°	45.3	43.0	99.6	72.4	72.4	45.3	56.6	74.7	110.9	77.0	56.6
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)