

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: P456456

Luminaire Tested: **GALN-SA7D-727-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456456  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7D-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47162 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

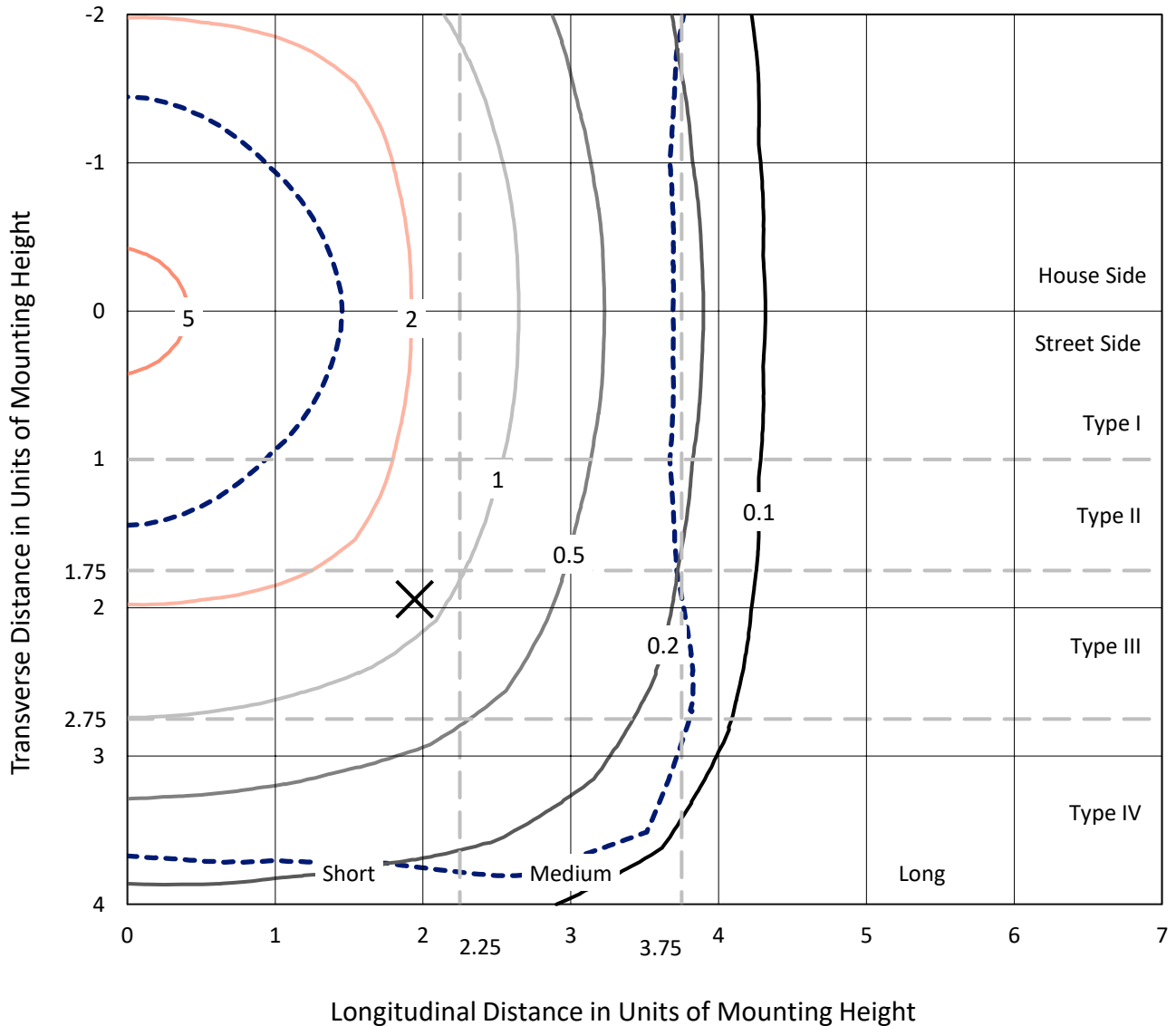
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

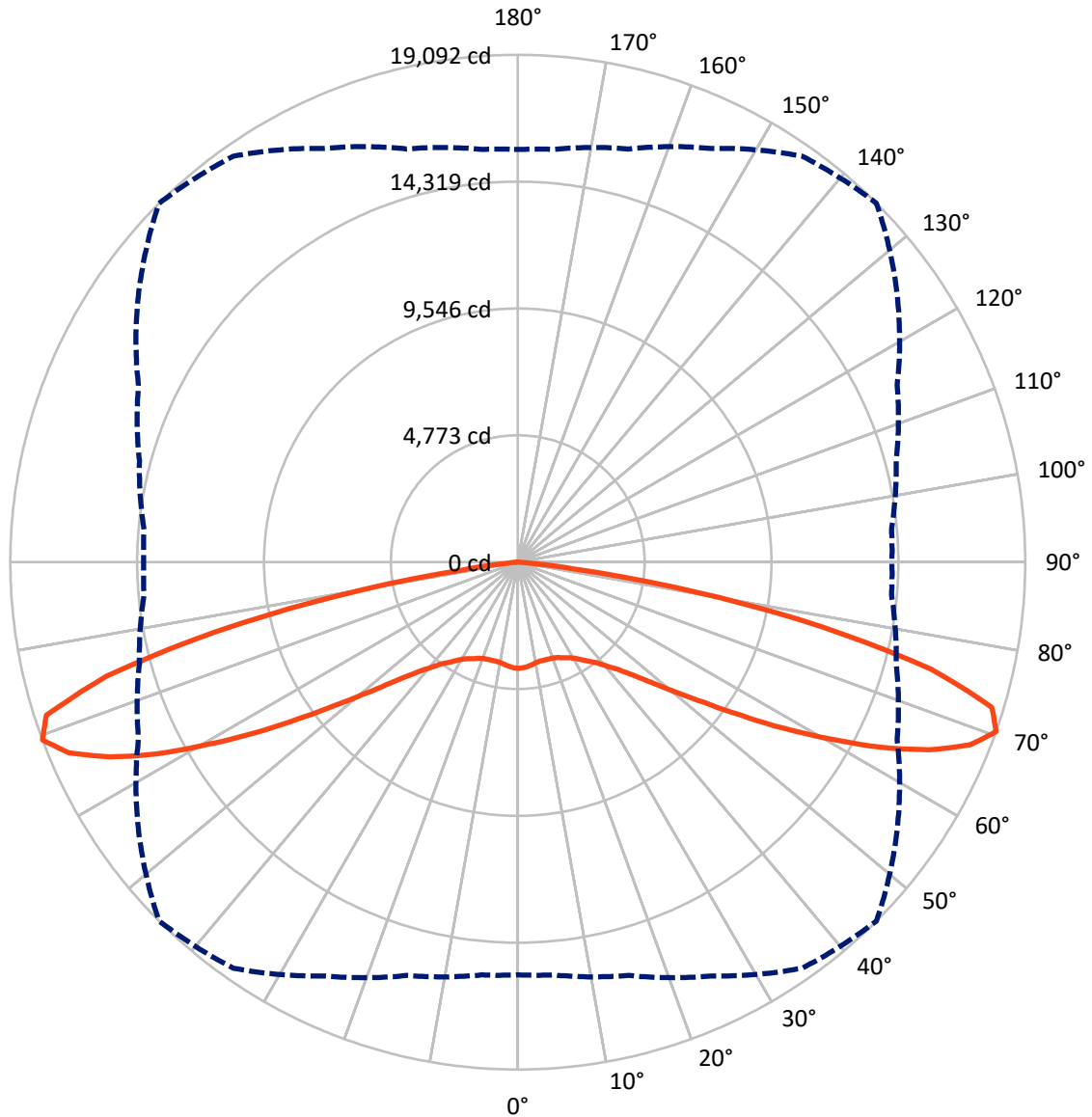
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23581.0	0.0	23581.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23581.0	0.0	23581.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	47162.0	0.0	47162.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.4	0.8
10°-20°	1093.2	2.3
20°-30°	1862.5	3.9
30°-40°	2886.9	6.1
40°-50°	4859.0	10.3
50°-60°	8840.7	18.7
60°-70°	14967.1	31.7
70°-80°	11585.1	24.6
80°-90°	694.2	1.5
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°	47162.0	100.0
0°-180°	47162.0	100.0



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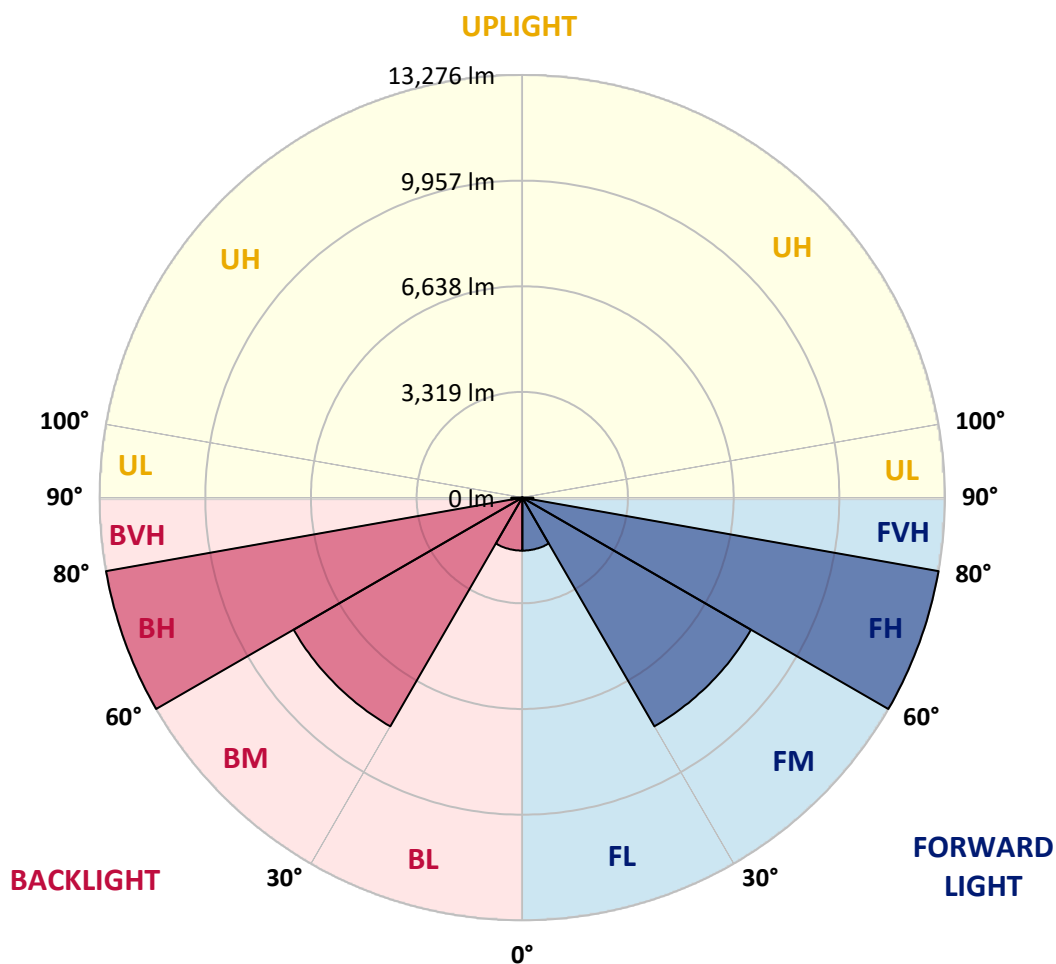
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1664.5	3.5			
FM (30°-60°)	8293.3	17.6			
FH (60°-80°)	13276.1	28.1			G5
FVH (80°-90°)	347.1	0.7			G3/500
BL (0°-30°)	1664.5	3.5	B3/2500		
BM (30°-60°)	8293.3	17.6	B4/8500		
BH (60°-80°)	13276.1	28.1	B5		G5
BVH (80°-90°)	347.1	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3992.8	3992.8	3992.8	3992.8	3992.8	3992.8	3992.8	3992.8	3992.8	3992.8	3992.8
2.5°	3982.9	3985.4	3985.4	3980.4	3977.9	3977.9	3975.4	3975.4	3982.9	3985.4	3987.9
5°	3948.0	3948.0	3948.0	3945.5	3940.5	3940.5	3935.6	3935.6	3938.0	3945.5	3940.5
7.5°	3900.7	3905.7	3905.7	3895.7	3888.2	3888.2	3885.7	3888.2	3890.7	3898.2	3895.7
10°	3885.7	3888.2	3875.8	3858.3	3845.9	3838.4	3840.9	3845.9	3858.3	3863.3	3865.8
12.5°	3895.7	3895.7	3873.3	3848.4	3826.0	3816.0	3813.5	3830.9	3853.4	3868.3	3873.3
15°	3908.2	3903.2	3875.8	3843.4	3821.0	3818.5	3816.0	3828.4	3860.8	3890.7	3893.2
17.5°	3915.6	3913.1	3878.3	3838.4	3826.0	3826.0	3823.5	3833.4	3868.3	3905.7	3908.2
20°	3940.5	3933.1	3893.2	3850.9	3840.9	3845.9	3838.4	3850.9	3888.2	3933.1	3943.0
22.5°	3990.3	3982.9	3943.0	3900.7	3895.7	3895.7	3893.2	3905.7	3945.5	3992.8	4000.3
25°	4050.1	4042.7	4005.3	3975.4	3980.4	3990.3	3985.4	3987.9	4020.2	4060.1	4072.5
27.5°	4129.8	4117.4	4085.0	4060.1	4075.0	4075.0	4075.0	4072.5	4092.5	4129.8	4142.3
30°	4227.0	4222.0	4187.1	4184.6	4197.1	4184.6	4184.6	4187.1	4189.6	4224.5	4236.9
32.5°	4354.0	4344.1	4326.6	4321.6	4356.5	4366.5	4331.6	4299.2	4316.7	4351.5	4359.0
35°	4563.2	4548.3	4523.4	4496.0	4523.4	4570.7	4496.0	4471.1	4515.9	4563.2	4568.2
37.5°	4847.2	4839.7	4799.9	4750.1	4747.6	4797.4	4720.2	4717.7	4802.4	4859.7	4867.1
40°	5203.4	5210.9	5161.1	5113.7	5088.8	5128.7	5068.9	5091.3	5173.5	5238.3	5233.3
42.5°	5704.1	5676.7	5599.4	5554.6	5527.2	5512.3	5497.3	5532.2	5624.4	5694.1	5748.9
45°	6289.4	6279.4	6182.3	6127.5	6067.7	6045.3	6040.3	6102.6	6214.7	6299.4	6306.8
47.5°	6952.0	6929.6	6867.3	6810.0	6787.6	6760.2	6735.3	6782.6	6894.7	6954.5	6971.9
50°	7634.5	7639.5	7639.5	7629.5	7651.9	7656.9	7589.6	7607.1	7669.3	7664.4	7659.4
52.5°	8414.1	8441.5	8571.0	8583.5	8690.6	8762.8	8640.8	8568.5	8546.1	8411.6	8421.6
55°	9330.7	9355.7	9549.9	9744.2	10033.2	10155.2	9898.7	9674.5	9515.1	9310.8	9320.8
57.5°	10474.0	10486.5	10670.8	11044.5	11502.8	11789.2	11338.4	10895.0	10571.2	10376.9	10299.7
60°	11704.5	11717.0	11986.0	12441.8	13154.2	13502.9	12945.0	12220.1	11811.6	11515.2	11535.2
62.5°	13181.6	13231.4	13473.0	14100.7	14965.1	15356.1	14616.3	13647.4	13094.4	12725.8	12740.7
65°	14763.3	14848.0	15112.0	15802.0	16599.1	17020.0	16113.3	14994.9	14307.5	13856.6	13904.0
67.5°	15789.5	15864.3	16245.4	17007.6	18001.4	18350.1	17179.4	15876.7	15017.4	14479.3	14379.7
70°	15528.0	15590.3	16098.4	17179.4	18651.5	19092.4	17433.5	15747.2	14735.9	14115.7	14075.8
72.5°	13707.2	13577.7	14319.9	15871.7	17909.2	18649.0	16633.9	14382.2	13109.4	12471.7	12397.0
75°	9084.1	9365.6	10461.6	12289.9	15151.9	16068.5	14197.9	11547.6	9946.0	9415.4	9333.2
77.5°	3036.4	3253.1	4227.0	6966.9	10329.6	11707.0	10344.5	7552.3	5342.9	4304.2	4324.1
80°	804.5	794.6	1028.7	1915.5	4463.6	6780.1	5195.9	2558.1	1399.9	1013.8	961.5
82.5°	288.9	323.8	416.0	530.6	1183.2	2107.3	1487.0	717.4	525.6	388.6	376.1
85°	127.0	124.5	179.3	211.7	296.4	393.6	348.7	303.9	266.5	176.9	164.4
87.5°	27.4	27.4	42.3	32.4	52.3	52.3	64.8	77.2	79.7	52.3	42.3
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)