

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: P457151

Luminaire Tested: **GALN-SA8C-727-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457151  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49549 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

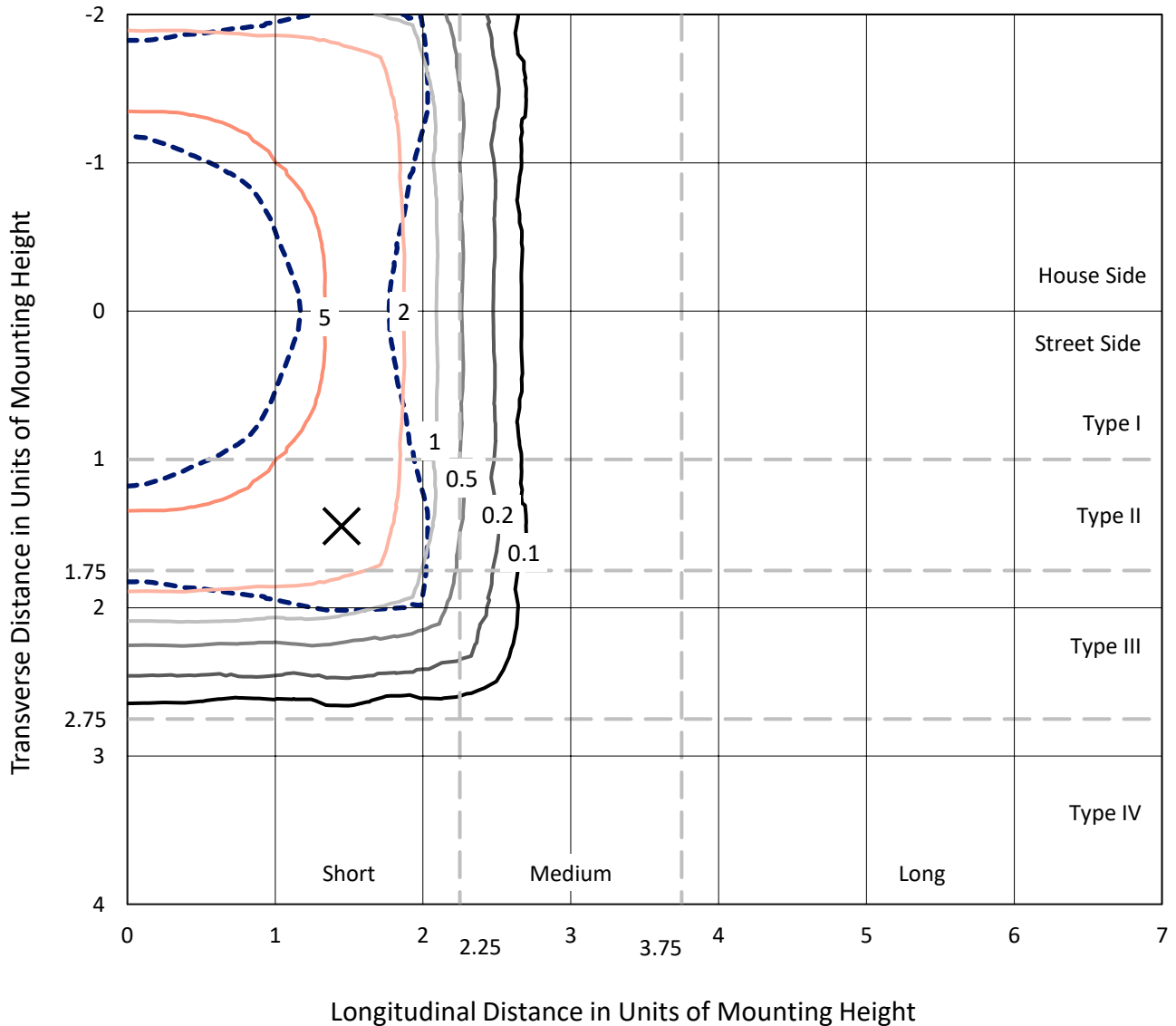
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

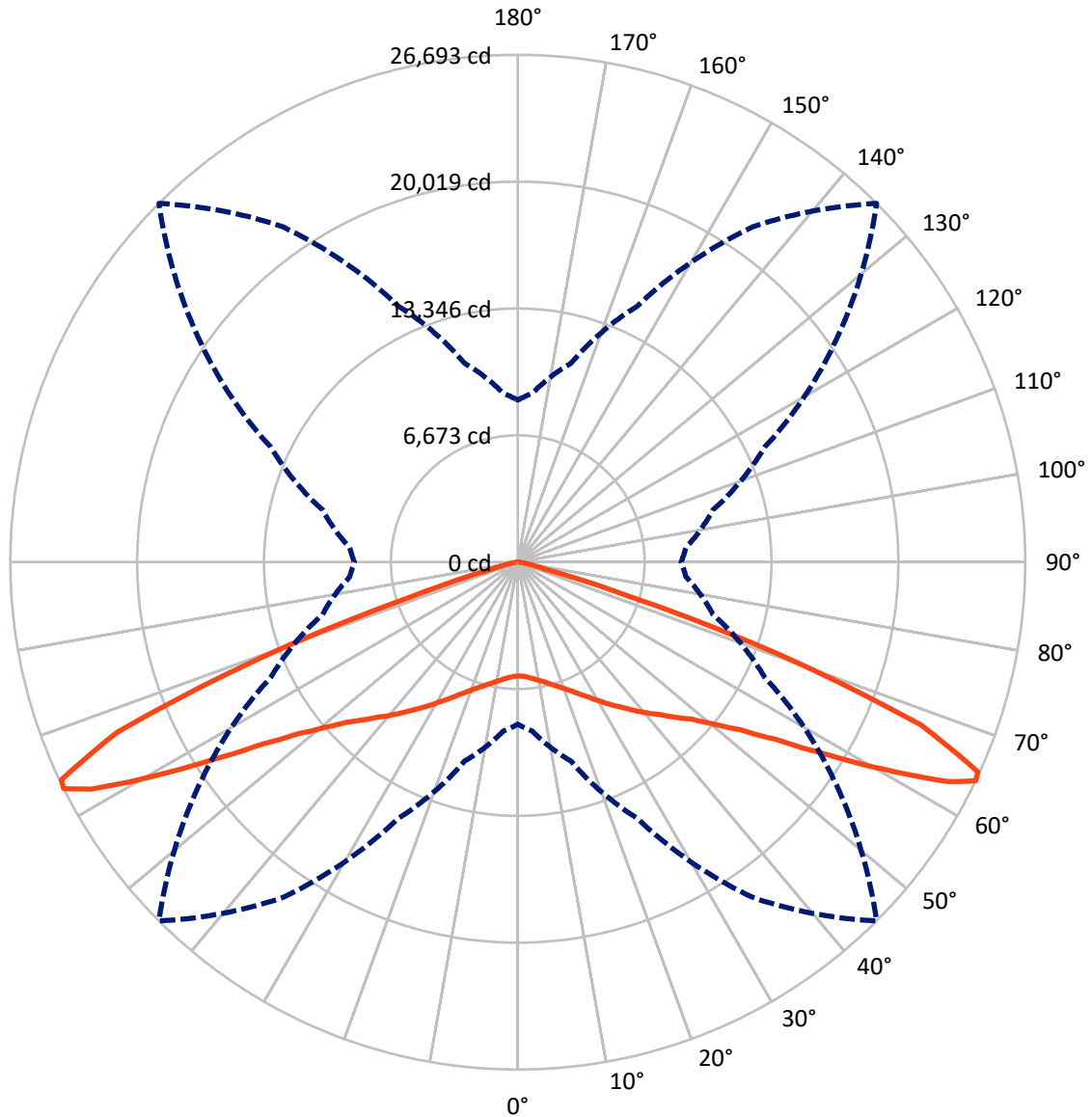
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24774.5	0.0	24774.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24774.5	0.0	24774.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	49549.0	0.0	49549.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	588.4	1.2
10°-20°	1897.8	3.8
20°-30°	3586.4	7.2
30°-40°	5939.5	12.0
40°-50°	9272.4	18.7
50°-60°	14335.0	28.9
60°-70°	12360.9	24.9
70°-80°	1400.8	2.8
80°-90°	167.8	0.3
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°	49549.0	100.0
0°-180°	49549.0	100.0

**Coefficient of Utilization**



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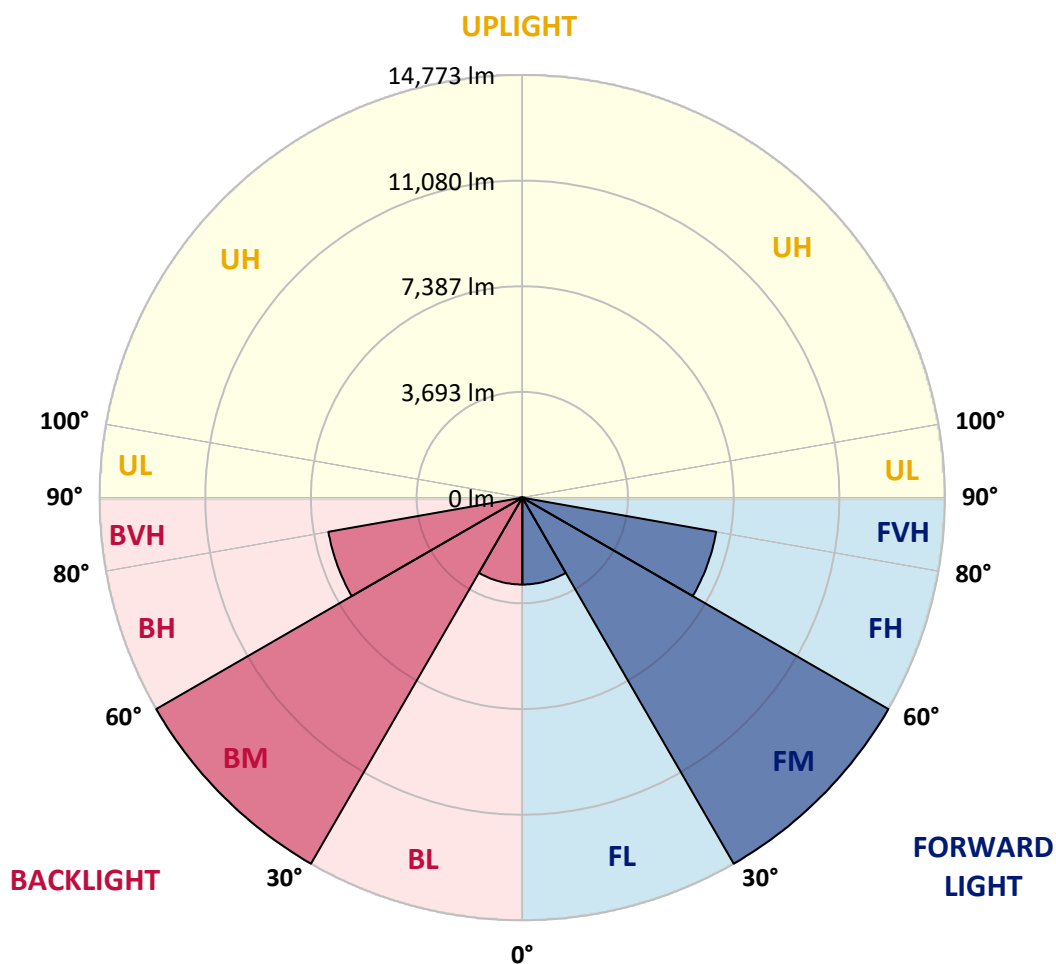
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3036.3	6.1			
FM	(30°-60°)	14773.4	29.8			
FH	(60°-80°)	6880.8	13.9			G3/7500
FVH	(80°-90°)	83.9	0.2			G1/100
BL	(0°-30°)	3036.3	6.1	B4/5000		
BM	(30°-60°)	14773.4	29.8	B5		
BH	(60°-80°)	6880.8	13.9	B5		G3/7500
BVH	(80°-90°)	83.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8	5988.8
2.5°	6012.4	6025.6	6015.1	6012.4	6009.8	6009.8	6009.8	6012.4	6022.9	6030.8	6025.6
5°	6088.6	6099.1	6093.8	6091.2	6088.6	6091.2	6085.9	6083.3	6091.2	6091.2	6088.6
7.5°	6183.0	6196.2	6190.9	6196.2	6198.8	6201.4	6188.3	6177.8	6175.2	6183.0	6177.8
10°	6311.6	6322.1	6324.8	6327.4	6332.6	6330.0	6314.3	6295.9	6293.3	6290.6	6288.0
12.5°	6456.0	6463.8	6466.5	6477.0	6484.8	6487.5	6469.1	6453.3	6427.1	6432.3	6421.9
15°	6618.7	6634.4	6631.8	6647.5	6668.5	6673.8	6655.4	6629.2	6605.6	6592.4	6584.6
17.5°	6818.1	6828.6	6823.4	6839.1	6865.4	6878.5	6862.7	6828.6	6805.0	6776.1	6760.4
20°	7054.3	7072.7	7077.9	7077.9	7101.6	7114.7	7091.1	7080.6	7043.8	7022.8	7009.7
22.5°	7322.0	7329.9	7345.6	7361.4	7385.0	7379.7	7371.9	7356.1	7322.0	7303.6	7282.6
25°	7623.8	7631.7	7671.1	7705.2	7713.0	7707.8	7697.3	7689.4	7657.9	7615.9	7600.2
27.5°	7975.5	7991.2	8043.7	8075.2	8075.2	8077.8	8056.8	8083.1	8014.8	7965.0	7959.7
30°	8416.4	8426.9	8471.5	8503.0	8487.2	8474.1	8468.9	8495.1	8421.6	8332.4	8311.4
32.5°	8852.0	8888.8	8928.1	8996.4	8941.3	8917.6	8912.4	8930.8	8846.8	8747.1	8718.2
35°	9319.2	9345.4	9418.9	9476.6	9426.8	9371.7	9395.3	9453.0	9353.3	9219.4	9214.2
37.5°	9836.2	9859.8	9954.3	10014.6	9977.9	9883.4	9922.8	9991.0	9891.3	9725.9	9691.8
40°	10374.2	10424.0	10542.1	10605.1	10544.7	10418.8	10492.3	10565.7	10476.5	10284.9	10208.8
42.5°	10977.8	11056.5	11227.1	11258.6	11143.1	10972.5	11101.1	11219.2	11156.2	10935.8	10906.9
45°	11683.7	11731.0	11940.9	12009.2	11849.1	11636.5	11796.6	12011.8	11964.5	11710.0	11654.9
47.5°	12473.7	12518.3	12736.1	12838.5	12636.4	12350.3	12639.0	12919.8	12890.9	12618.0	12591.8
50°	13407.9	13418.4	13720.2	13835.7	13633.6	13387.0	13644.1	13993.2	13877.7	13528.7	13523.4
52.5°	14431.5	14444.6	14825.1	15048.2	14935.3	14657.1	14961.6	15174.2	14880.2	14423.6	14389.5
55°	15318.5	15384.1	15903.7	16496.8	16651.7	16449.6	16541.5	16441.7	15717.4	15077.0	14977.3
57.5°	15680.7	15809.3	16599.2	17706.7	18714.4	19013.6	18305.0	17355.0	16050.7	15145.3	15048.2
60°	14796.2	14935.3	16160.9	18263.0	20834.9	22134.0	20142.1	17509.8	15292.2	14019.4	13867.2
62.5°	11849.1	11888.4	13691.4	16953.5	22071.0	25435.5	20916.3	16189.8	13085.1	11355.7	11295.3
64°	8526.6	8930.8	10841.3	14864.5	21530.4	26692.5	20470.1	14339.6	10628.7	8878.3	8594.8
65°	6377.2	6487.5	8739.2	12694.1	20577.7	26598.1	19604.1	12570.8	8802.2	6794.5	6479.6
67.5°	2409.2	2422.3	3225.4	6327.4	14649.3	22884.6	14961.6	6839.1	3708.2	2682.1	2585.0
70°	999.9	1018.3	1183.6	2128.4	6295.9	14693.9	7214.4	2466.9	1356.8	1099.6	1083.9
72.5°	732.2	742.7	792.6	944.8	1936.8	6033.4	2372.4	1047.1	795.2	711.2	703.3
75°	574.7	580.0	616.7	695.5	902.8	1671.7	986.8	719.1	606.2	545.9	540.6
77.5°	438.3	451.4	477.6	530.1	606.2	792.6	653.5	538.0	467.1	417.3	409.4
80°	301.8	317.5	367.4	388.4	406.8	514.4	446.1	406.8	364.8	304.4	286.1
82.5°	186.3	196.8	246.7	265.1	257.2	288.7	286.1	291.3	259.8	189.0	175.8
85°	97.1	102.4	133.8	139.1	128.6	118.1	147.0	170.6	160.1	107.6	105.0
87.5°	21.0	23.6	28.9	26.2	28.9	28.9	36.7	55.1	57.7	36.7	34.1
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)