

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: P457268

Luminaire Tested: **GALN-SA8C-760-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457268  
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-SA8C-760-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59417 lumens  
Efficiency: N/A  
Efficacy: 138.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

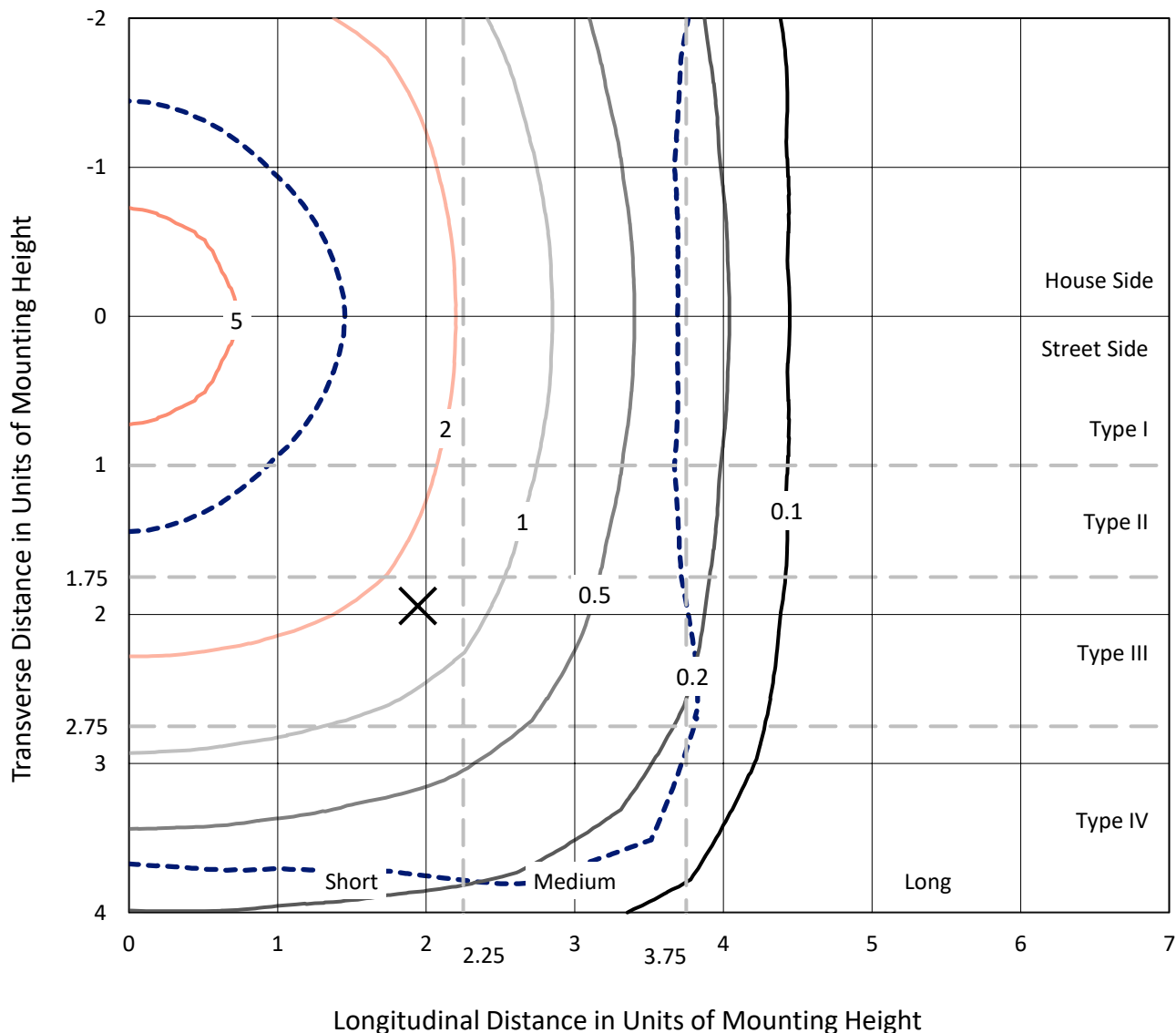
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

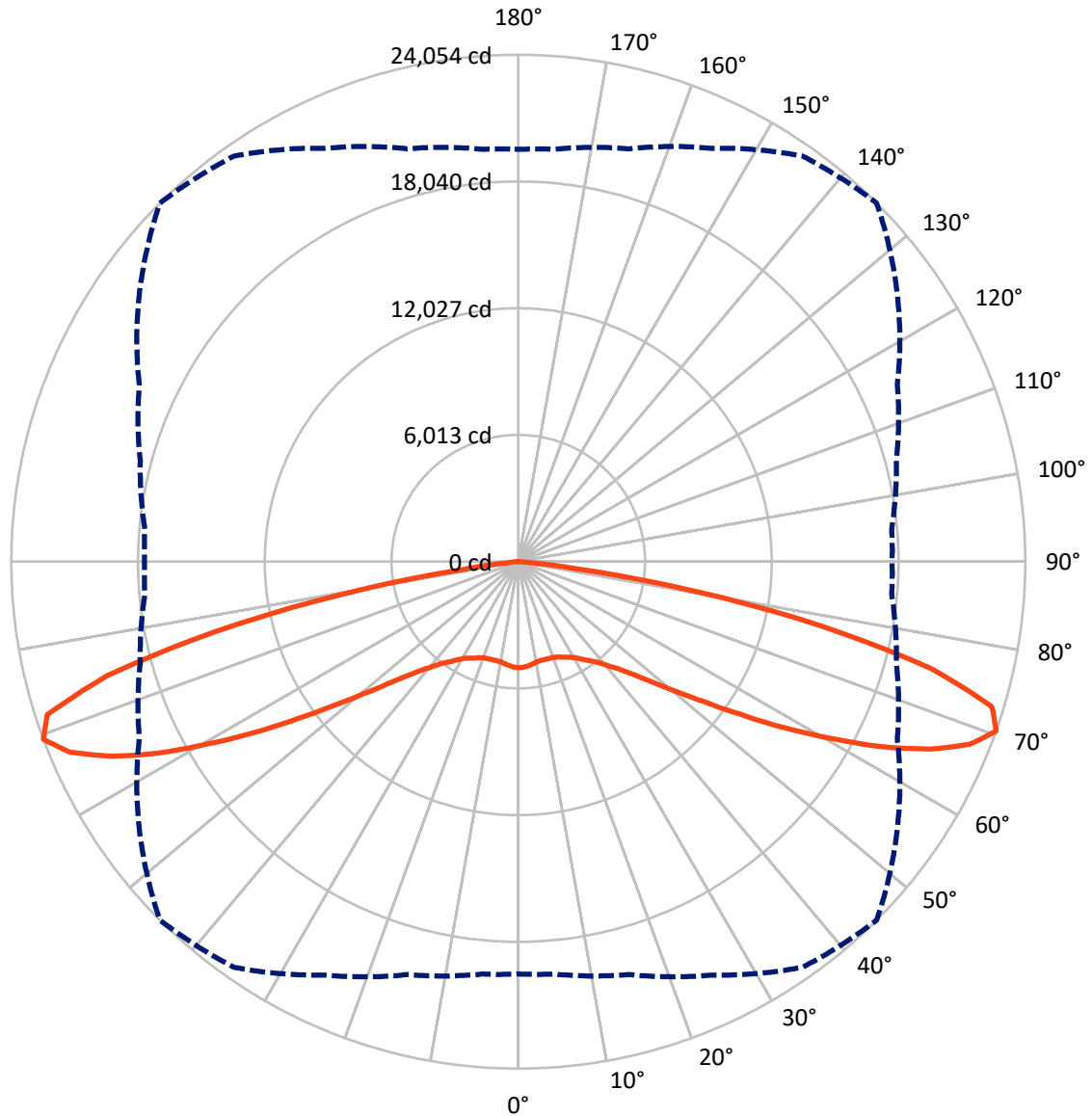
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	29708.5	0.0	29708.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	29708.5	0.0	29708.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	59417.0	0.0	59417.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.4	0.8
10°-20°	1377.2	2.3
20°-30°	2346.5	3.9
30°-40°	3637.0	6.1
40°-50°	6121.6	10.3
50°-60°	11137.9	18.7
60°-70°	18856.3	31.7
70°-80°	14595.5	24.6
80°-90°	874.6	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°	59417.0	100.0
0°-180°	59417.0	100.0

**Coefficient of Utilization**



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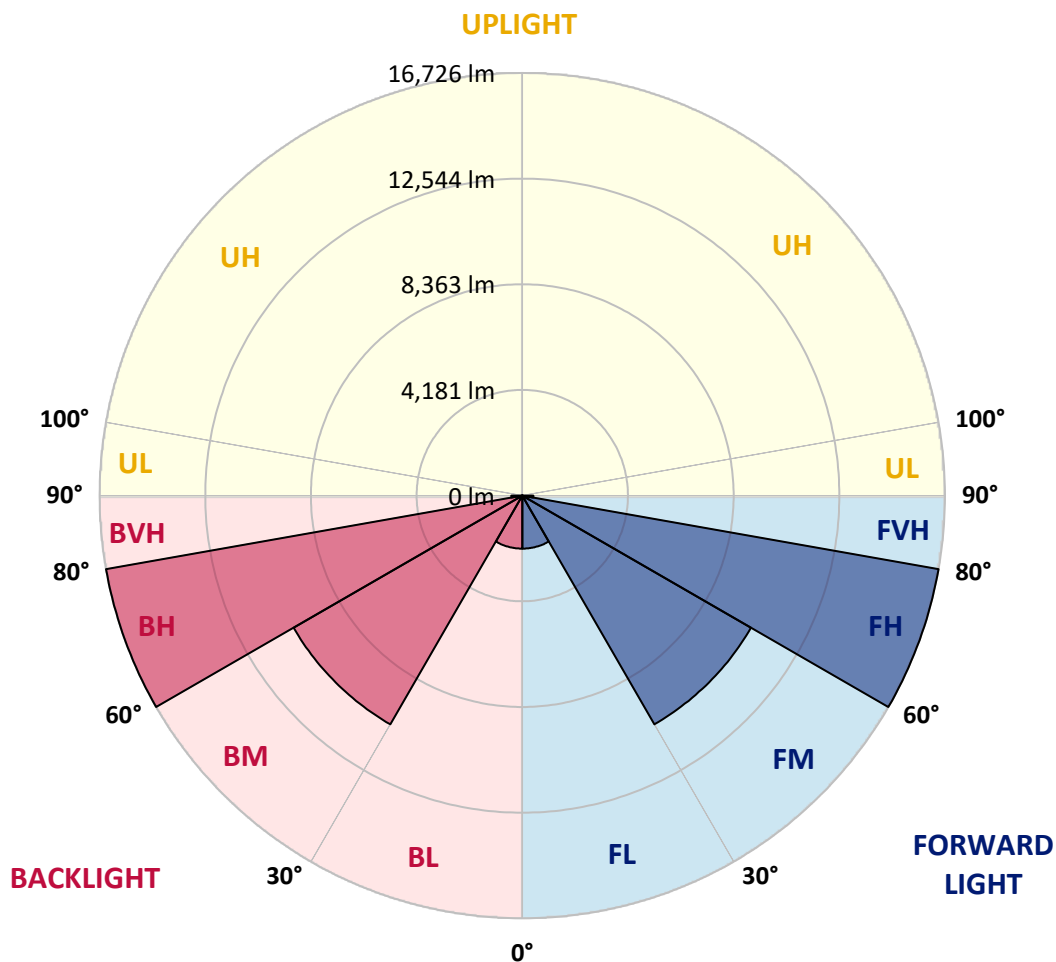
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2097.1	3.5			
FM (30°-60°)	10448.3	17.6			
FH (60°-80°)	16725.9	28.1			G5
FVH (80°-90°)	437.3	0.7			G3/500
BL (0°-30°)	2097.1	3.5	B3/2500		
BM (30°-60°)	10448.3	17.6	B5		
BH (60°-80°)	16725.9	28.1	B5		G5
BVH (80°-90°)	437.3	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°	5030.4	5030.4	5030.4	5030.4	5030.4	5030.4	5030.4	5030.4	5030.4	5030.4	5030.4
2.5°	5017.8	5021.0	5021.0	5014.7	5011.5	5011.5	5008.4	5008.4	5017.8	5021.0	5024.1
5°	4973.9	4973.9	4973.9	4970.8	4964.5	4964.5	4958.2	4958.2	4961.3	4970.8	4964.5
7.5°	4914.3	4920.5	4920.5	4908.0	4898.6	4898.6	4895.4	4898.6	4901.7	4911.1	4908.0
10°	4895.4	4898.6	4882.9	4860.9	4845.2	4835.8	4839.0	4845.2	4860.9	4867.2	4870.3
12.5°	4908.0	4908.0	4879.7	4848.4	4820.1	4807.6	4804.4	4826.4	4854.6	4873.5	4879.7
15°	4923.7	4917.4	4882.9	4842.1	4813.8	4810.7	4807.6	4823.3	4864.1	4901.7	4904.9
17.5°	4933.1	4930.0	4886.0	4835.8	4820.1	4820.1	4817.0	4829.5	4873.5	4920.5	4923.7
20°	4964.5	4955.1	4904.9	4851.5	4839.0	4845.2	4835.8	4851.5	4898.6	4955.1	4967.6
22.5°	5027.2	5017.8	4967.6	4914.3	4908.0	4908.0	4904.9	4920.5	4970.8	5030.4	5039.8
25°	5102.6	5093.1	5046.1	5008.4	5014.7	5027.2	5021.0	5024.1	5064.9	5115.1	5130.8
27.5°	5203.0	5187.3	5146.5	5115.1	5133.9	5133.9	5133.9	5130.8	5155.9	5203.0	5218.7
30°	5325.4	5319.1	5275.1	5272.0	5287.7	5272.0	5272.0	5275.1	5278.3	5322.2	5337.9
32.5°	5485.4	5472.8	5450.9	5444.6	5488.5	5501.1	5457.2	5416.4	5438.3	5482.3	5491.7
35°	5749.0	5730.2	5698.8	5664.3	5698.8	5758.4	5664.3	5632.9	5689.4	5749.0	5755.3
37.5°	6106.7	6097.3	6047.1	5984.4	5981.2	6044.0	5946.7	5943.6	6050.3	6122.4	6131.9
40°	6555.5	6564.9	6502.1	6442.5	6411.1	6461.4	6386.0	6414.3	6517.8	6599.4	6593.2
42.5°	7186.3	7151.7	7054.5	6998.0	6963.4	6944.6	6925.8	6969.7	7085.8	7173.7	7242.7
45°	7923.7	7911.2	7788.8	7719.7	7644.4	7616.2	7609.9	7688.3	7829.6	7936.3	7945.7
47.5°	8758.4	8730.2	8651.7	8579.6	8551.3	8516.8	8485.4	8545.1	8686.3	8761.6	8783.5
50°	9618.3	9624.6	9624.6	9612.0	9640.2	9646.5	9561.8	9583.8	9662.2	9655.9	9649.7
52.5°	10600.5	10635.0	10798.2	10813.9	10948.8	11039.8	10886.1	10795.1	10766.8	10597.4	10609.9
55°	11755.3	11786.7	12031.5	12276.3	12640.3	12794.0	12470.8	12188.4	11987.5	11730.2	11742.8
57.5°	13195.7	13211.4	13443.6	13914.3	14491.8	14852.6	14284.6	13726.1	13318.1	13073.3	12976.0
60°	14745.9	14761.6	15100.5	15674.8	16572.3	17011.6	16308.7	15395.5	14880.9	14507.4	14532.5
62.5°	16606.8	16669.6	16974.0	17764.8	18853.7	19346.4	18414.4	17193.7	16497.0	16032.6	16051.4
65°	18599.5	18706.2	19038.9	19908.1	20912.3	21442.6	20300.4	18891.4	18025.3	17457.3	17516.9
67.5°	19892.4	19986.6	20466.7	21427.0	22679.1	23118.4	21643.5	20002.3	18919.6	18241.8	18116.3
70°	19562.9	19641.4	20281.5	21643.5	23498.1	24053.5	21963.6	19839.1	18565.0	17783.6	17733.4
72.5°	17269.0	17105.8	18040.9	19996.0	22562.9	23495.0	20956.2	18119.4	16515.8	15712.5	15618.3
75°	11444.7	11799.3	13180.0	15483.4	19089.1	20243.9	17887.2	14548.2	12530.4	11862.0	11758.5
77.5°	3825.3	4098.4	5325.4	8777.3	13013.7	14749.1	13032.5	9514.7	6731.2	5422.6	5447.7
80°	1013.6	1001.1	1296.0	2413.2	5623.5	8541.9	6546.1	3222.8	1763.6	1277.2	1211.3
82.5°	364.0	408.0	524.1	668.4	1490.6	2654.8	1873.4	903.8	662.1	489.5	473.9
85°	160.0	156.9	225.9	266.7	373.4	495.8	439.3	382.8	335.8	222.8	207.1
87.5°	34.5	34.5	53.3	40.8	65.9	65.9	81.6	97.3	100.4	65.9	53.3
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)