

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: P454425

Luminaire Tested: **GALN-SA5C-740-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454425  
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-SA5C-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 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: 36743 lumens  
Efficiency: N/A  
Efficacy: 136.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

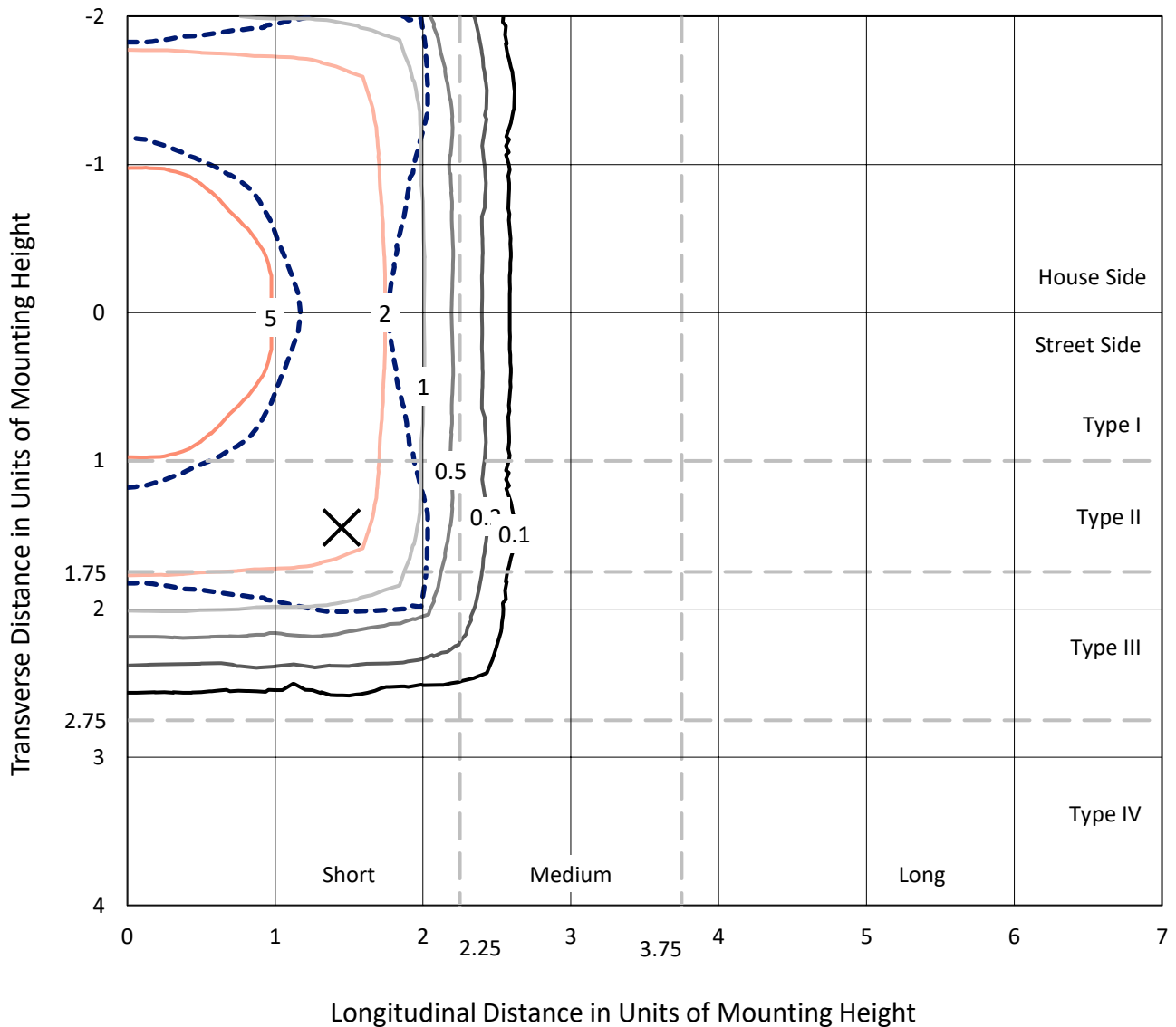
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

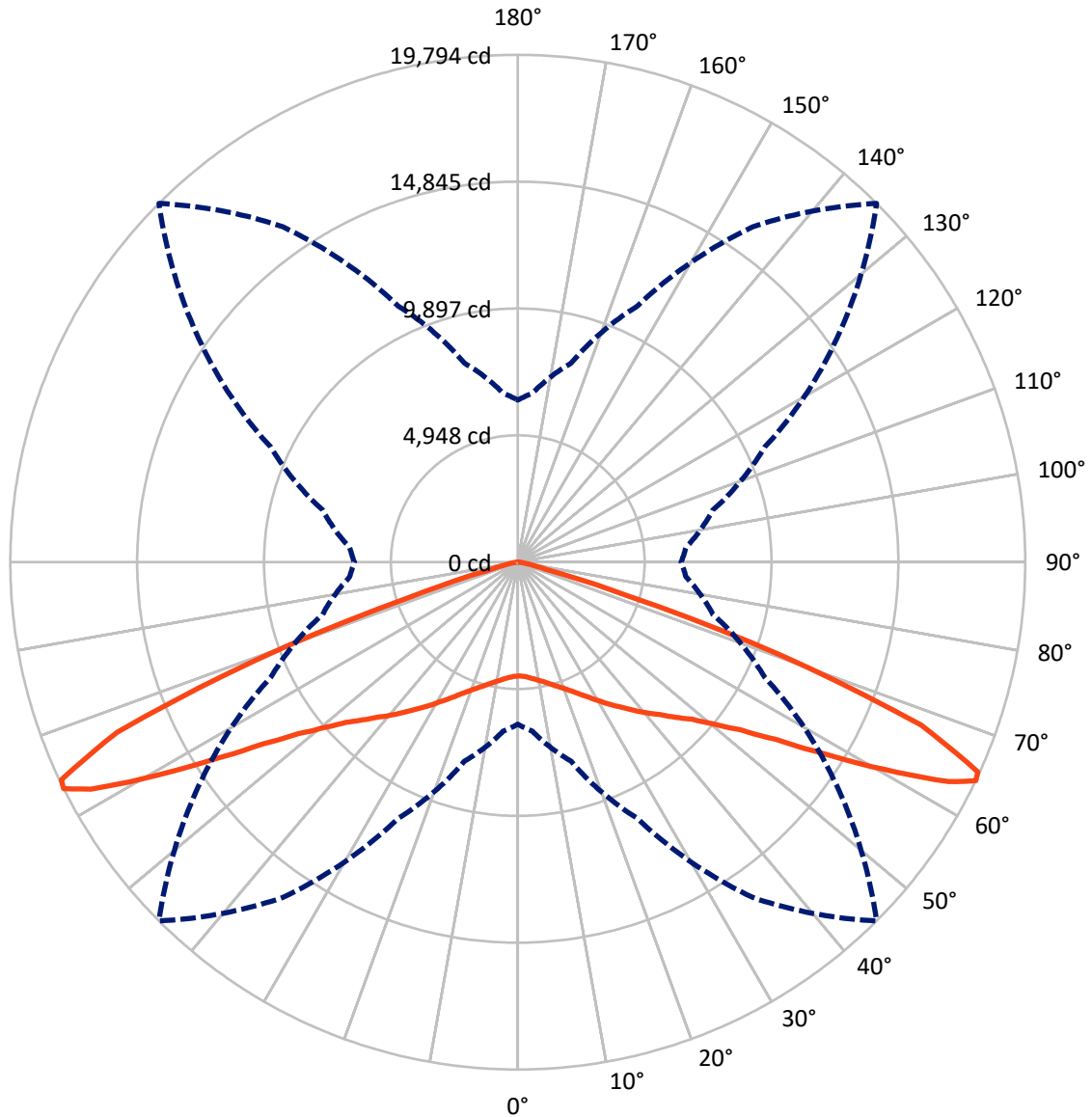
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	18371.5	0.0	18371.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18371.5	0.0	18371.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36743.0	0.0	36743.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.3	1.2
10°-20°	1407.3	3.8
20°-30°	2659.5	7.2
30°-40°	4404.4	12.0
40°-50°	6876.0	18.7
50°-60°	10630.1	28.9
60°-70°	9166.2	24.9
70°-80°	1038.8	2.8
80°-90°	124.4	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°	36743.0	100.0
0°-180°	36743.0	100.0

**Coefficient of Utilization**



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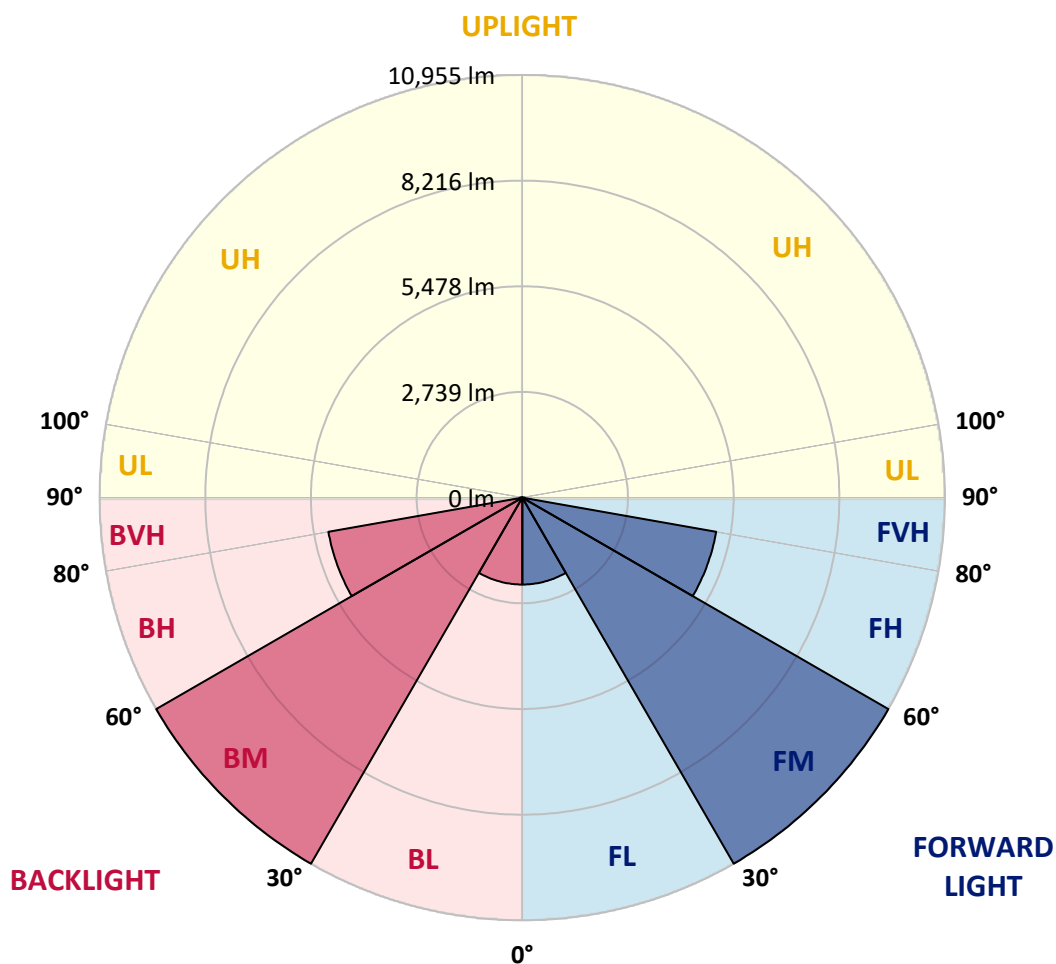
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2251.6	6.1			
FM	(30°-60°)	10955.2	29.8			
FH	(60°-80°)	5102.5	13.9			G3/7500
FVH	(80°-90°)	62.2	0.2			G1/100
BL	(0°-30°)	2251.6	6.1	B3/2500		
BM	(30°-60°)	10955.2	29.8	B5		
BH	(60°-80°)	5102.5	13.9	B5		G3/7500
BVH	(80°-90°)	62.2	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°	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0	4441.0
2.5°	4458.5	4468.3	4460.5	4458.5	4456.6	4456.6	4458.5	4466.3	4472.1	4468.3	
5°	4515.0	4522.7	4518.9	4516.9	4515.0	4516.9	4513.0	4511.1	4516.9	4516.9	4515.0
7.5°	4585.0	4594.8	4590.9	4594.8	4596.7	4598.6	4588.9	4581.1	4579.2	4585.0	4581.1
10°	4680.4	4688.2	4690.1	4692.1	4695.9	4694.0	4682.3	4668.7	4666.8	4664.8	4662.9
12.5°	4787.4	4793.3	4795.2	4803.0	4808.8	4810.8	4797.1	4785.5	4766.0	4769.9	4762.1
15°	4908.1	4919.8	4917.8	4929.5	4945.1	4948.9	4935.3	4915.9	4898.3	4888.6	4882.8
17.5°	5056.0	5063.8	5059.9	5071.5	5091.0	5100.7	5089.1	5063.8	5046.2	5024.8	5013.2
20°	5231.1	5244.8	5248.6	5248.6	5266.2	5275.9	5258.4	5250.6	5223.3	5207.8	5198.0
22.5°	5429.6	5435.5	5447.1	5458.8	5476.3	5472.4	5466.6	5454.9	5429.6	5416.0	5400.4
25°	5653.4	5659.3	5688.5	5713.8	5719.6	5715.7	5707.9	5702.1	5678.7	5647.6	5635.9
27.5°	5914.2	5925.9	5964.8	5988.2	5988.2	5990.1	5974.5	5994.0	5943.4	5906.4	5902.5
30°	6241.2	6248.9	6282.0	6305.4	6293.7	6284.0	6280.1	6299.5	6245.0	6178.9	6163.3
32.5°	6564.2	6591.5	6620.6	6671.2	6630.4	6612.9	6609.0	6622.6	6560.3	6486.4	6465.0
35°	6910.6	6930.1	6984.6	7027.4	6990.4	6949.5	6967.1	7009.9	6935.9	6836.7	6832.8
37.5°	7294.0	7311.5	7381.6	7426.3	7399.1	7329.0	7358.2	7408.8	7334.9	7212.3	7187.0
40°	7692.9	7729.9	7817.5	7864.2	7819.4	7726.0	7780.5	7835.0	7768.8	7626.8	7570.3
42.5°	8140.6	8198.9	8325.4	8348.8	8263.2	8136.7	8232.0	8319.6	8272.9	8109.4	8088.0
45°	8664.1	8699.1	8854.8	8905.4	8786.7	8629.0	8747.7	8907.3	8872.3	8683.5	8642.6
47.5°	9249.8	9282.9	9444.4	9520.3	9370.5	9158.4	9372.4	9580.7	9559.3	9356.9	9337.4
50°	9942.6	9950.4	10174.2	10259.9	10110.0	9927.1	10117.8	10376.6	10291.0	10032.2	10028.3
52.5°	10701.6	10711.4	10993.5	11159.0	11075.3	10869.0	11094.7	11252.4	11034.4	10695.8	10670.5
55°	11359.4	11408.1	11793.4	12233.2	12348.0	12198.2	12266.3	12192.3	11655.2	11180.4	11106.4
57.5°	11628.0	11723.3	12309.1	13130.4	13877.7	14099.5	13574.1	12869.6	11902.4	11231.0	11159.0
60°	10972.1	11075.3	11984.1	13542.9	15450.1	16413.4	14936.3	12984.4	11339.9	10396.1	10283.2
62.5°	8786.7	8815.9	10152.8	12571.8	16366.7	18861.6	15510.4	12005.5	9703.3	8420.8	8376.0
64°	6322.9	6622.6	8039.4	11022.7	15965.8	19793.8	15179.6	10633.5	7881.7	6583.7	6373.5
65°	4729.0	4810.8	6480.5	9413.3	15259.4	19723.8	14537.4	9321.8	6527.2	5038.5	4804.9
67.5°	1786.5	1796.3	2391.8	4692.1	10863.2	16970.0	11094.7	5071.5	2749.8	1988.9	1916.9
70°	741.5	755.1	877.7	1578.3	4668.7	10896.2	5349.8	1829.3	1006.1	815.4	803.7
72.5°	543.0	550.7	587.7	700.6	1436.2	4474.1	1759.3	776.5	589.7	527.4	521.6
75°	426.2	430.1	457.3	515.7	669.5	1239.7	731.7	533.2	449.6	404.8	400.9
77.5°	325.0	334.7	354.2	393.1	449.6	587.7	484.6	399.0	346.4	309.4	303.6
80°	223.8	235.5	272.5	288.0	301.6	381.4	330.8	301.6	270.5	225.7	212.1
82.5°	138.2	146.0	182.9	196.6	190.7	214.1	212.1	216.0	192.7	140.1	130.4
85°	72.0	75.9	99.3	103.1	95.4	87.6	109.0	126.5	118.7	79.8	77.8
87.5°	15.6	17.5	21.4	19.5	21.4	21.4	27.2	40.9	42.8	27.2	25.3
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)