

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: P455354

Luminaire Tested: **GALN-SA6C-740-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455354  
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-SA6C-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 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: 43633 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

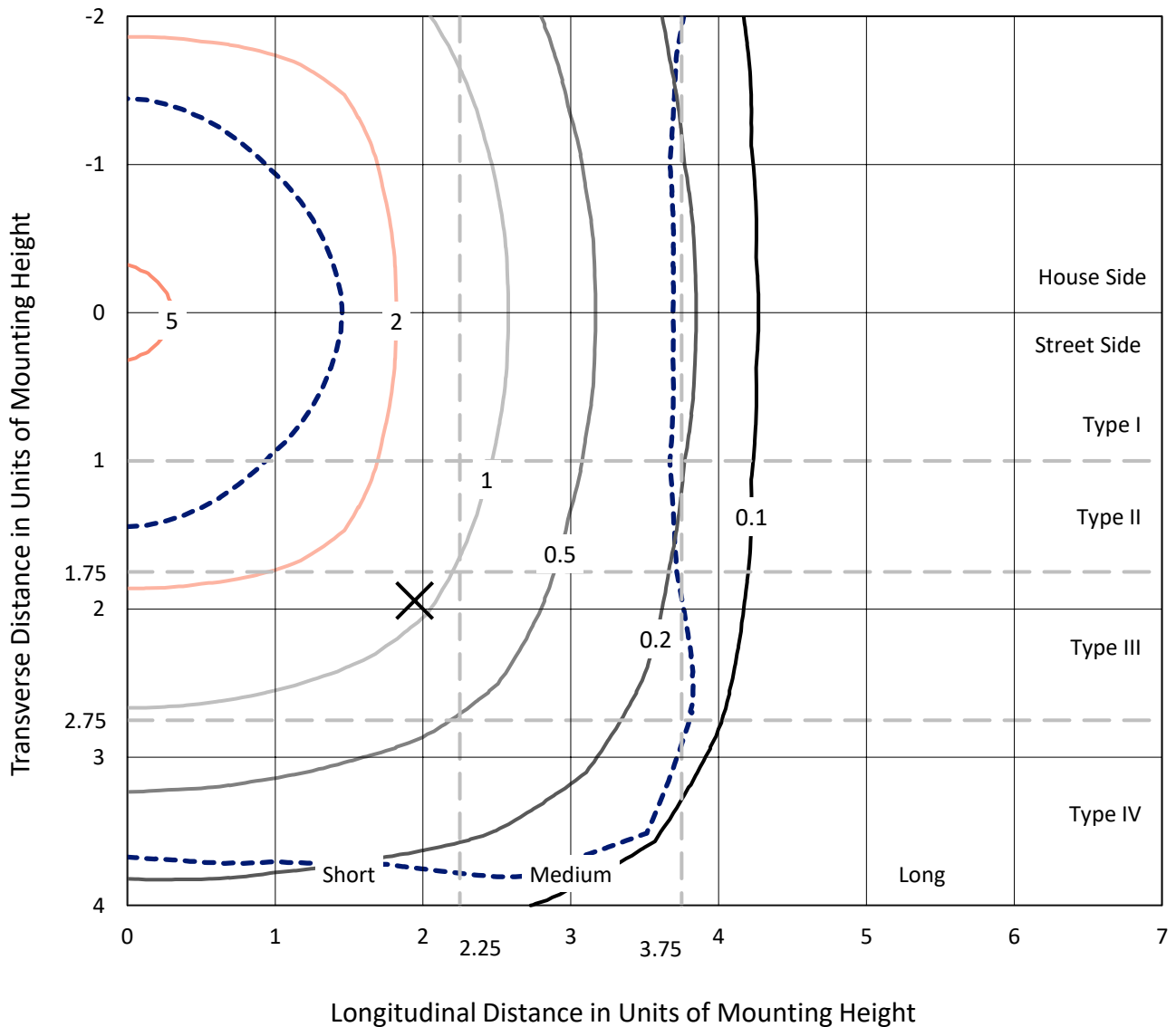
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

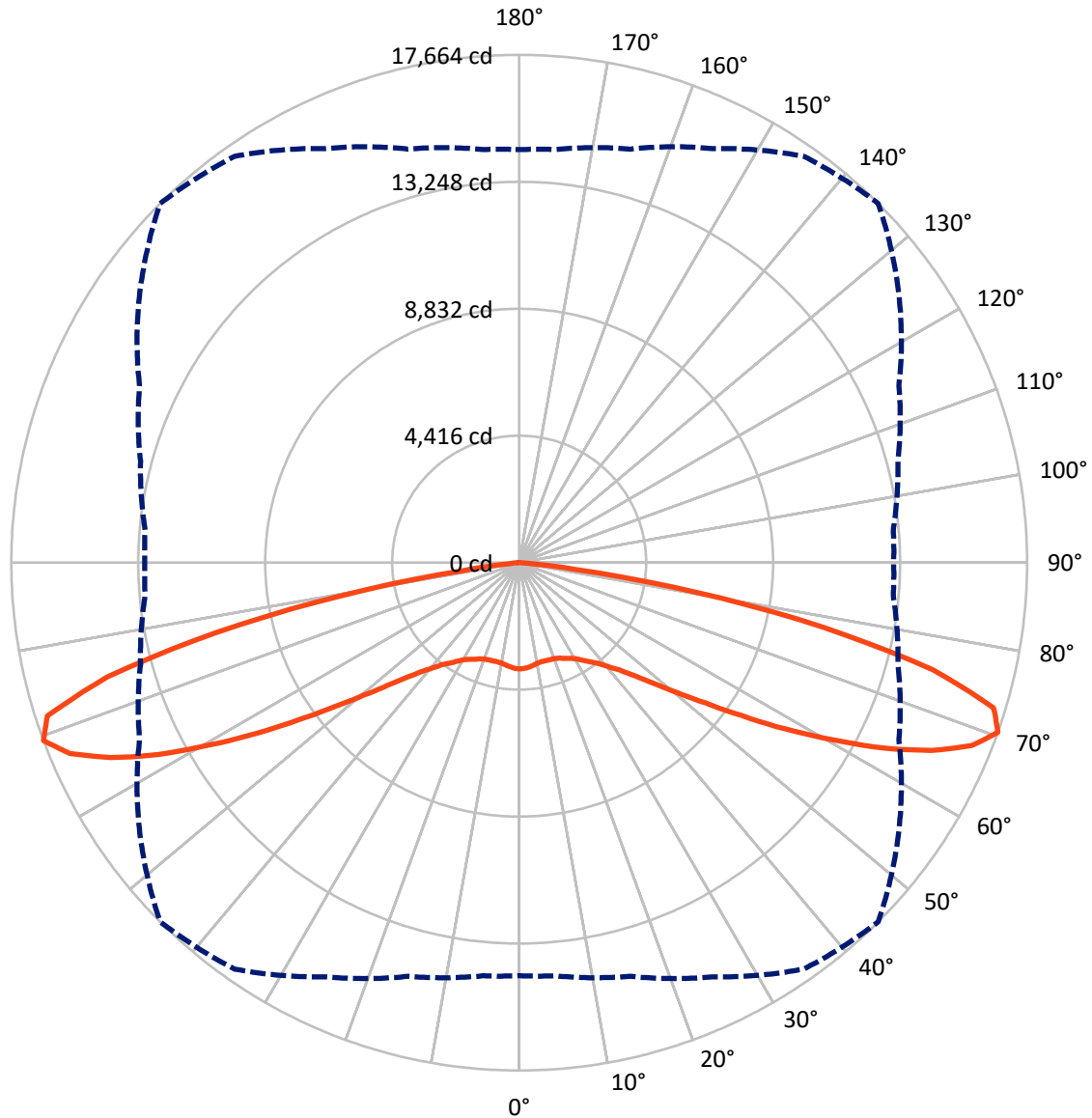
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	21816.5	0.0	21816.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21816.5	0.0	21816.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43633.0	0.0	43633.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.5	0.8
10°-20°	1011.4	2.3
20°-30°	1723.1	3.9
30°-40°	2670.8	6.1
40°-50°	4495.4	10.3
50°-60°	8179.2	18.7
60°-70°	13847.1	31.7
70°-80°	10718.2	24.6
80°-90°	642.2	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°	43633.0	100.0
0°-180°	43633.0	100.0



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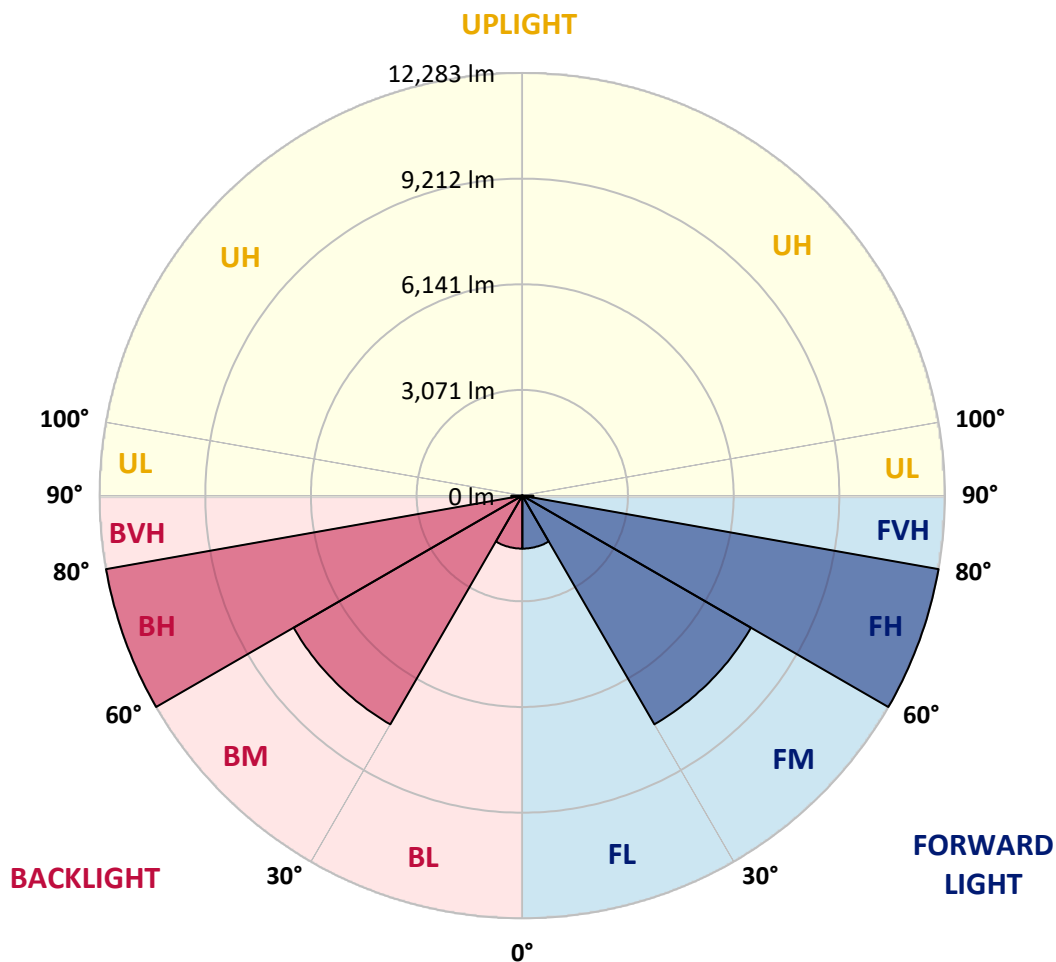
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1540.0	3.5			
FM (30°-60°)	7672.7	17.6			
FH (60°-80°)	12282.7	28.1			G5
FVH (80°-90°)	321.1	0.7			G3/500
BL (0°-30°)	1540.0	3.5	B3/2500		
BM (30°-60°)	7672.7	17.6	B4/8500		
BH (60°-80°)	12282.7	28.1	B5		G5
BVH (80°-90°)	321.1	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°	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1	3694.1
2.5°	3684.8	3687.2	3687.2	3682.5	3680.2	3680.2	3677.9	3677.9	3684.8	3687.2	3689.5
5°	3652.6	3652.6	3652.6	3650.3	3645.7	3645.7	3641.1	3641.1	3643.4	3650.3	3645.7
7.5°	3608.8	3613.4	3613.4	3604.2	3597.3	3597.3	3595.0	3597.3	3599.6	3606.5	3604.2
10°	3595.0	3597.3	3585.8	3569.6	3558.1	3551.2	3553.5	3558.1	3569.6	3574.2	3576.5
12.5°	3604.2	3604.2	3583.5	3560.4	3539.7	3530.5	3528.1	3544.3	3565.0	3578.8	3583.5
15°	3615.7	3611.1	3585.8	3555.8	3535.1	3532.8	3530.5	3542.0	3571.9	3599.6	3601.9
17.5°	3622.6	3620.3	3588.1	3551.2	3539.7	3539.7	3537.4	3546.6	3578.8	3613.4	3615.7
20°	3645.7	3638.8	3601.9	3562.7	3553.5	3558.1	3551.2	3562.7	3597.3	3638.8	3648.0
22.5°	3691.8	3684.8	3648.0	3608.8	3604.2	3604.2	3601.9	3613.4	3650.3	3694.1	3701.0
25°	3747.1	3740.2	3705.6	3677.9	3682.5	3691.8	3687.2	3689.5	3719.4	3756.3	3767.8
27.5°	3820.8	3809.3	3779.3	3756.3	3770.1	3770.1	3770.1	3767.8	3786.2	3820.8	3832.3
30°	3910.7	3906.1	3873.8	3871.5	3883.0	3871.5	3871.5	3873.8	3876.1	3908.4	3919.9
32.5°	4028.2	4019.0	4002.9	3998.3	4030.5	4039.7	4007.5	3977.5	3993.6	4025.9	4032.8
35°	4221.8	4208.0	4184.9	4159.6	4184.9	4228.7	4159.6	4136.5	4178.0	4221.8	4226.4
37.5°	4484.5	4477.6	4440.7	4394.6	4392.3	4438.4	4367.0	4364.7	4443.0	4496.0	4502.9
40°	4814.0	4821.0	4774.9	4731.1	4708.0	4744.9	4689.6	4710.3	4786.4	4846.3	4841.7
42.5°	5277.2	5251.9	5180.5	5139.0	5113.6	5099.8	5086.0	5118.2	5203.5	5268.0	5318.7
45°	5818.8	5809.6	5719.7	5669.0	5613.7	5593.0	5588.3	5646.0	5749.7	5828.0	5834.9
47.5°	6431.8	6411.0	6353.4	6300.4	6279.7	6254.3	6231.3	6275.1	6378.8	6434.1	6450.2
50°	7063.2	7067.8	7067.8	7058.6	7079.3	7083.9	7021.7	7037.9	7095.5	7090.9	7086.2
52.5°	7784.5	7809.9	7929.7	7941.2	8040.3	8107.1	7994.2	7927.4	7906.6	7782.2	7791.4
55°	8632.6	8655.6	8835.3	9015.1	9282.4	9395.3	9158.0	8950.6	8803.1	8614.1	8623.3
57.5°	9690.3	9701.8	9872.4	10218.0	10642.0	10907.1	10490.0	10079.8	9780.2	9600.4	9529.0
60°	10828.7	10840.2	11089.1	11510.8	12169.9	12492.5	11976.3	11305.7	10927.8	10653.6	10672.0
62.5°	12195.3	12241.4	12464.9	13045.6	13845.3	14207.1	13522.6	12626.2	12114.6	11773.5	11787.4
65°	13658.6	13737.0	13981.2	14619.6	15357.0	15746.5	14907.6	13872.9	13236.9	12819.8	12863.6
67.5°	14608.0	14677.2	15029.8	15734.9	16654.4	16977.0	15893.9	14688.7	13893.7	13395.9	13303.7
70°	14366.1	14423.7	14893.8	15893.9	17255.9	17663.8	16129.0	14568.9	13633.3	13059.4	13022.6
72.5°	12681.5	12561.7	13248.4	14684.1	16569.1	17253.6	15389.3	13306.0	12128.4	11538.5	11469.4
75°	8404.4	8664.8	9678.8	11370.3	14018.1	14866.1	13135.5	10683.5	9201.8	8710.9	8634.9
77.5°	2809.2	3009.6	3910.7	6445.6	9556.6	10831.0	9570.5	6987.2	4943.1	3982.1	4000.6
80°	744.3	735.1	951.7	1772.1	4129.6	6272.8	4807.1	2366.7	1295.1	937.9	889.5
82.5°	267.3	299.6	384.8	490.9	1094.6	1949.6	1375.8	663.7	486.2	359.5	348.0
85°	117.5	115.2	165.9	195.9	274.2	364.1	322.6	281.1	246.6	163.6	152.1
87.5°	25.3	25.3	39.2	30.0	48.4	48.4	59.9	71.4	73.7	48.4	39.2
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)