

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: P534024

Luminaire Tested: **GALN-SA9C-730-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534024  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-730-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49243 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

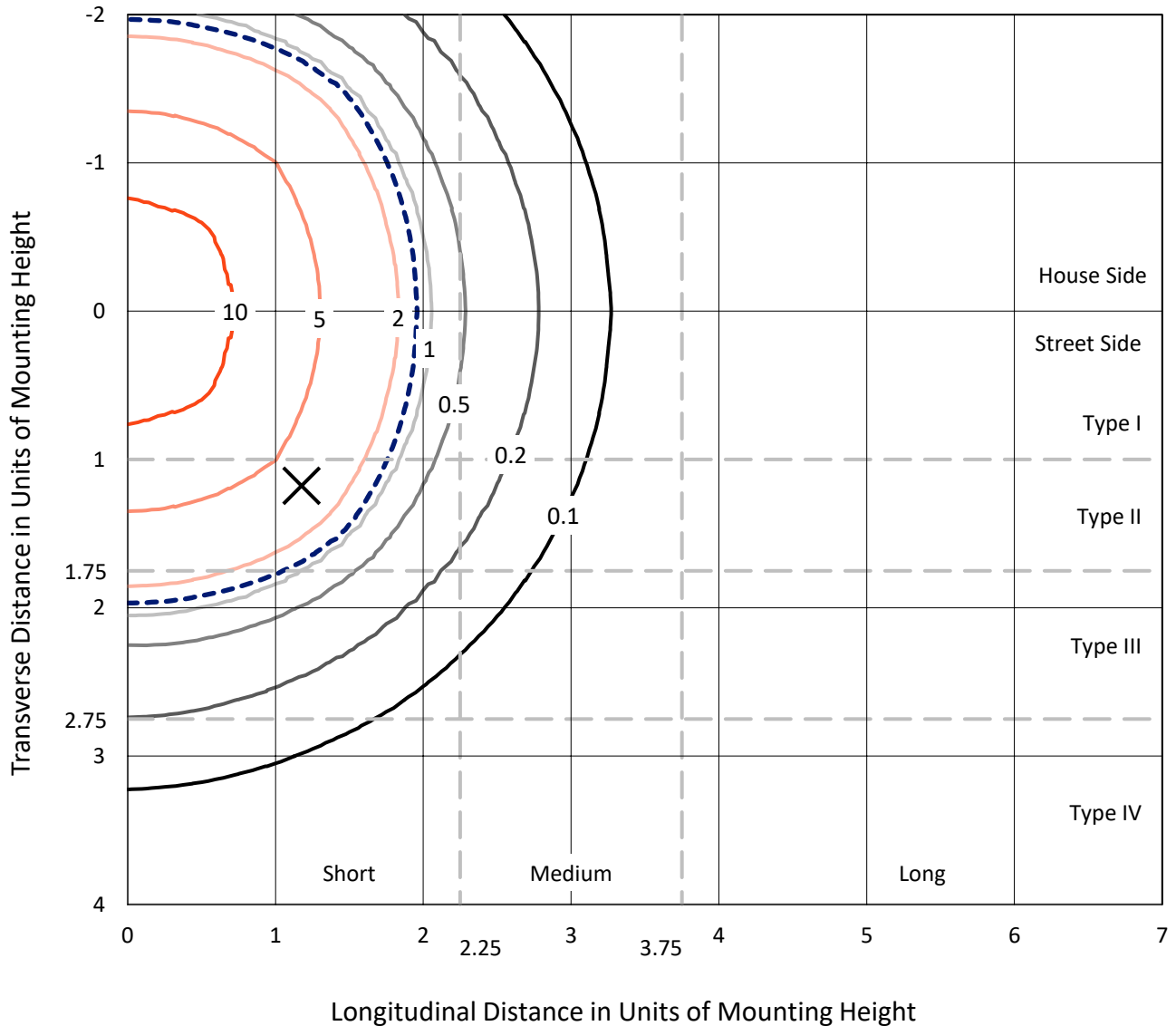
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

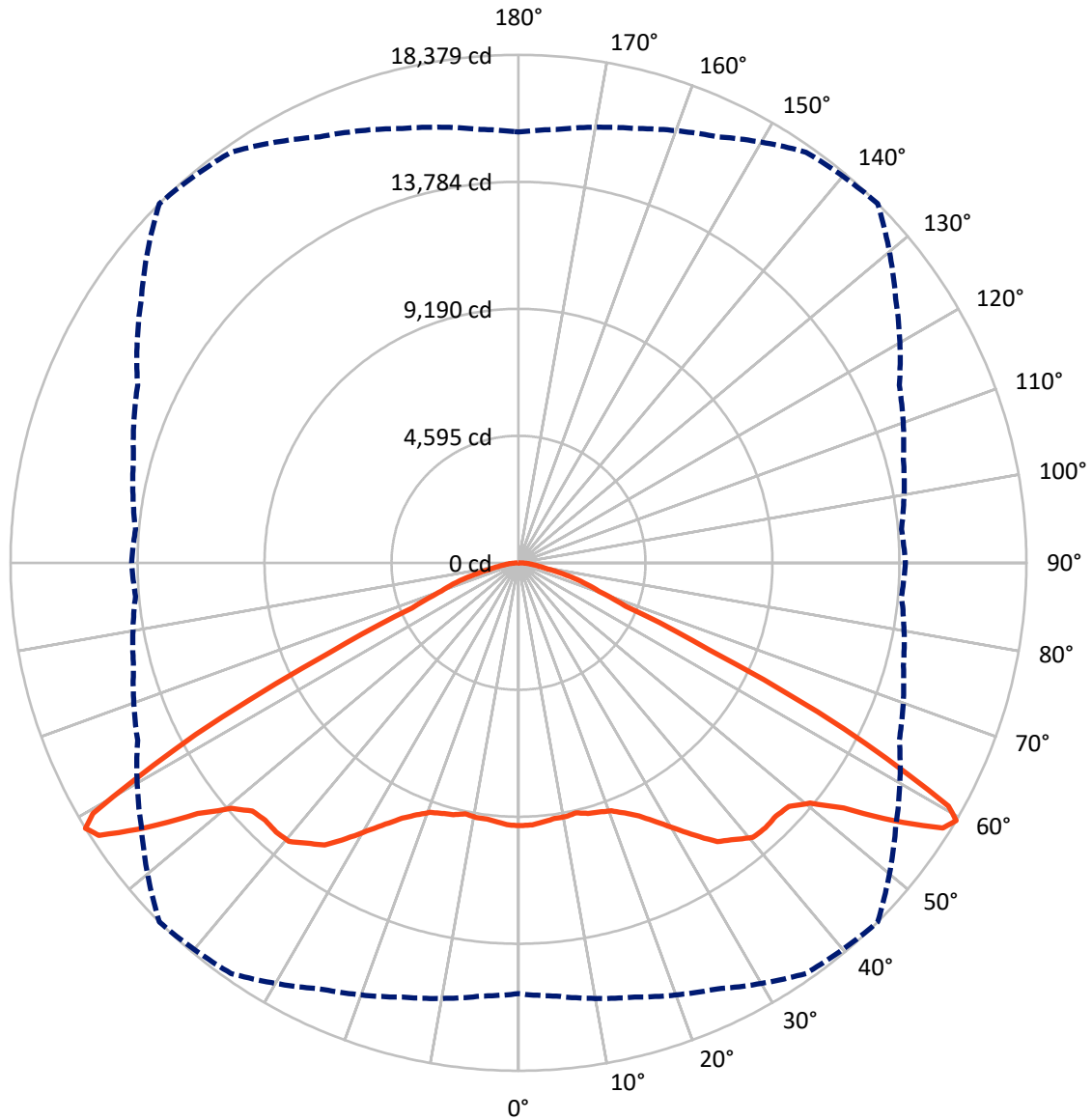
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24621.5	0.0	24621.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24621.5	0.0	24621.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	49243.0	0.0	49243.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	896.6	1.8
10°-20°	2666.4	5.4
20°-30°	4655.8	9.5
30°-40°	7436.0	15.1
40°-50°	10129.3	20.6
50°-60°	13697.6	27.8
60°-70°	7511.8	15.3
70°-80°	1921.7	3.9
80°-90°	327.7	0.7
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°	49243.0	100.0
0°-180°	49243.0	100.0

**Coefficient of Utilization**



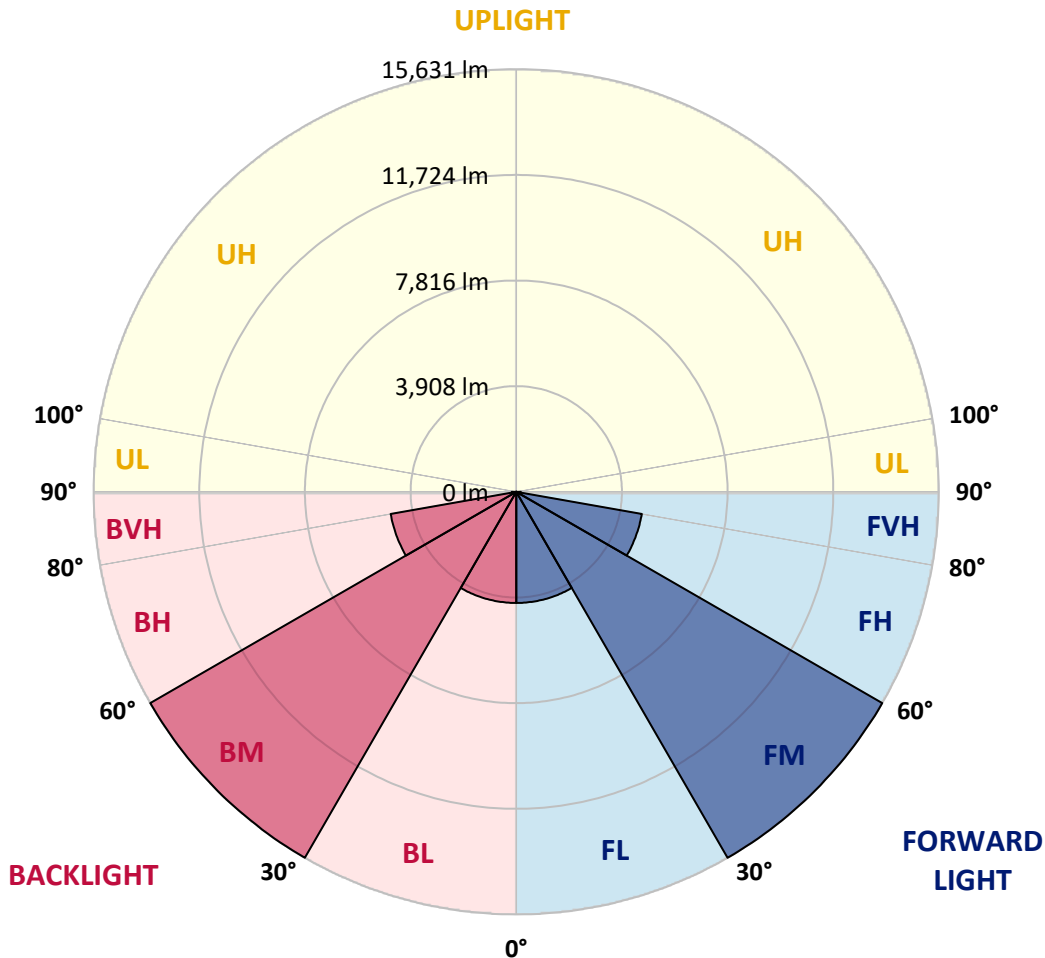
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4109.4	8.3			
FM (30°-60°)	15631.5	31.7			
FH (60°-80°)	4716.8	9.6			G2/5000
FVH (80°-90°)	163.9	0.3			G2/225
BL (0°-30°)	4109.4	8.3	B4/5000		
BM (30°-60°)	15631.5	31.7	B5		
BH (60°-80°)	4716.8	9.6	B4/5000		G2/5000
BVH (80°-90°)	163.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9511.4	9511.4	9511.4	9511.4	9511.4	9511.4	9511.4	9511.4	9511.4	9511.4	9511.4
2.5°	9454.6	9524.0	9473.5	9517.7	9511.4	9492.5	9460.9	9442.0	9416.7	9454.6	9391.5
5°	9416.7	9473.5	9530.3	9454.6	9454.6	9416.7	9397.8	9359.9	9359.9	9353.6	9347.3
7.5°	9479.8	9423.0	9397.8	9410.4	9423.0	9341.0	9397.8	9322.0	9258.9	9303.1	9353.6
10°	9423.0	9448.3	9353.6	9397.8	9328.4	9341.0	9303.1	9353.6	9284.2	9284.2	9284.2
12.5°	9479.8	9410.4	9442.0	9410.4	9391.5	9284.2	9334.7	9277.9	9271.6	9334.7	9277.9
15°	9593.4	9479.8	9454.6	9391.5	9410.4	9410.4	9359.9	9366.2	9296.8	9334.7	9347.3
17.5°	9555.6	9492.5	9473.5	9397.8	9460.9	9479.8	9385.2	9322.0	9366.2	9359.9	9353.6
20°	9587.1	9612.4	9593.4	9606.1	9631.3	9580.8	9492.5	9404.1	9347.3	9429.3	9423.0
22.5°	9789.1	9763.9	9751.2	9738.6	9782.8	9833.3	9713.4	9574.5	9574.5	9631.3	9656.6
25°	9953.2	9946.9	9940.6	9997.4	10148.9	10148.9	9997.4	9820.7	9776.5	9814.3	9782.8
27.5°	10193.0	10262.5	10237.2	10338.2	10559.1	10609.6	10407.6	10199.3	10079.4	10035.2	10092.0
30°	10742.1	10660.1	10679.0	10786.3	10982.0	11146.1	10836.8	10615.9	10451.8	10445.5	10470.7
32.5°	11108.2	11171.3	11228.1	11329.1	11638.4	11764.6	11392.2	11032.5	10931.5	10874.7	10893.6
35°	11840.3	11783.5	11770.9	11871.9	12181.1	12389.4	11922.4	11606.8	11474.3	11600.5	11600.5
37.5°	12534.6	12376.8	12256.9	12389.4	12673.4	12698.7	12301.1	12130.7	12061.2	12206.4	12200.1
40°	12862.8	12850.2	12572.5	12648.2	13026.9	13064.8	12692.4	12490.4	12477.8	12667.1	12856.5
42.5°	13203.6	13083.7	12806.0	12856.5	13090.0	13102.6	12749.2	12692.4	12831.2	13014.3	13026.9
45°	13260.4	13159.4	12982.7	12856.5	13026.9	13064.8	12856.5	12894.3	12907.0	13127.9	13127.9
47.5°	13374.0	13361.4	13260.4	13165.7	13197.3	13165.7	13033.2	13090.0	13279.3	13386.6	13336.1
50°	13689.6	13557.0	13658.0	13576.0	13582.3	13670.7	13550.7	13607.5	13569.7	13475.0	13411.9
52.5°	14383.9	14320.7	14409.1	14465.9	14529.0	14731.0	14592.1	14289.2	14005.2	13752.7	13746.4
55°	15400.0	15444.2	15614.6	15904.9	16151.1	16472.9	15803.9	15078.1	14623.7	14226.1	14251.3
57.5°	16359.3	16327.8	16561.3	17224.0	17943.5	18107.6	16794.8	15759.8	15021.3	14768.9	14661.6
59°	15589.3	15740.8	16271.0	17009.4	18139.2	18379.0	16662.3	15204.3	14421.7	13910.5	13998.9
60°	14377.5	14434.3	14907.7	15936.5	17463.9	17874.1	15772.4	14346.0	13304.6	13007.9	13140.5
62.5°	10161.5	10117.3	10458.1	11297.5	12667.1	13222.5	11726.7	10723.2	10066.8	9738.6	9814.3
65°	5402.6	5604.6	5743.4	6267.3	6993.1	7580.1	6961.6	6526.1	6160.0	5888.6	5882.3
67.5°	3648.0	3622.8	3654.3	3774.3	4020.4	4184.5	4171.9	3951.0	3919.4	3868.9	3925.7
70°	3073.7	3061.1	3004.3	3004.3	3054.8	3092.6	3136.8	3162.0	3212.5	3275.7	3269.3
72.5°	2493.0	2461.5	2423.6	2404.7	2467.8	2486.7	2543.5	2568.8	2613.0	2606.6	2663.4
75°	1647.3	1647.3	1691.5	1742.0	1760.9	1798.8	1805.1	1880.8	1880.8	1893.4	1843.0
77.5°	921.5	896.2	927.8	978.3	1022.5	1091.9	1161.3	1218.1	1249.7	1237.0	1237.0
80°	536.5	536.5	568.0	624.8	681.6	744.8	795.2	839.4	871.0	858.4	833.1
82.5°	334.5	334.5	366.1	422.9	467.0	504.9	574.3	631.1	669.0	656.4	624.8
85°	170.4	170.4	208.3	246.1	303.0	328.2	321.9	296.6	290.3	258.8	258.8
87.5°	44.2	44.2	63.1	69.4	56.8	63.1	63.1	63.1	63.1	63.1	69.4
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)