

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: P454904

Luminaire Tested: **GALN-SA6A-740-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454904  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-740-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27070 lumens  
Efficiency: N/A  
Efficacy: 148.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

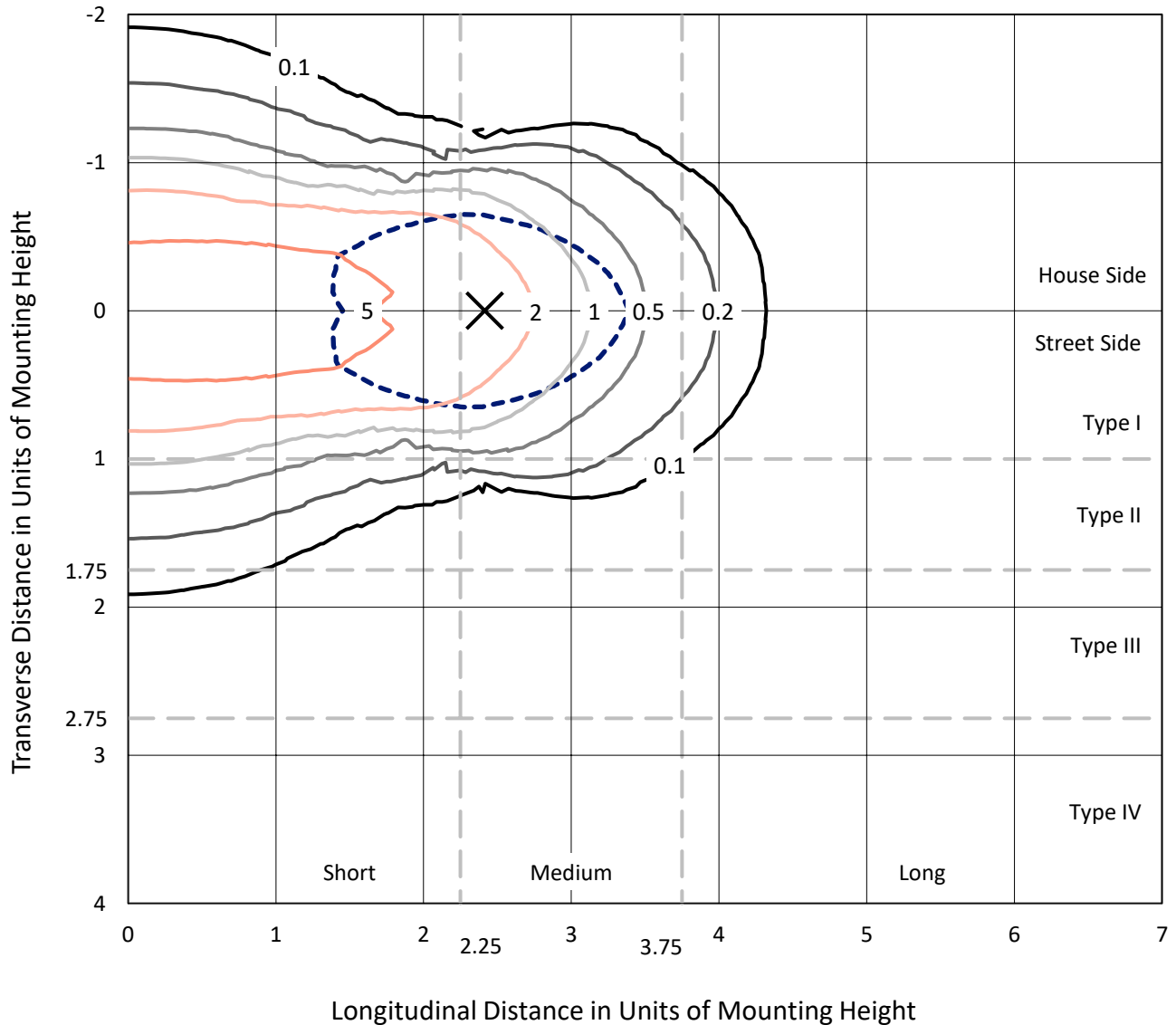
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

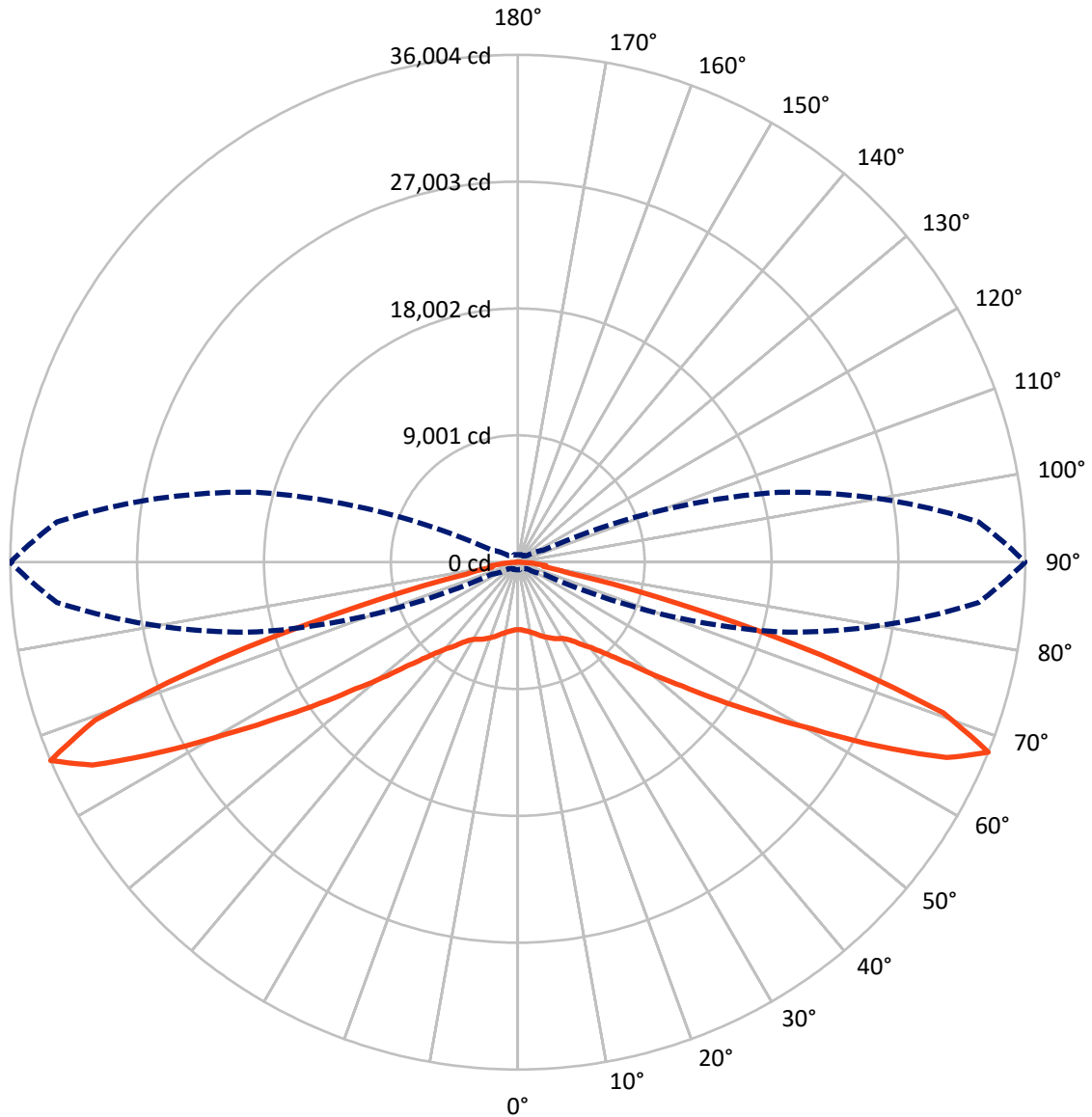
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13535.0	0.0	13535.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13535.0	0.0	13535.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27070.0	0.0	27070.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.8	1.8
10°-20°	1528.7	5.6
20°-30°	2558.6	9.5
30°-40°	3466.2	12.8
40°-50°	4390.5	16.2
50°-60°	5484.9	20.3
60°-70°	6447.2	23.8
70°-80°	2466.3	9.1
80°-90°	249.9	0.9
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°	27070.0	100.0
0°-180°	27070.0	100.0

**Coefficient of Utilization**



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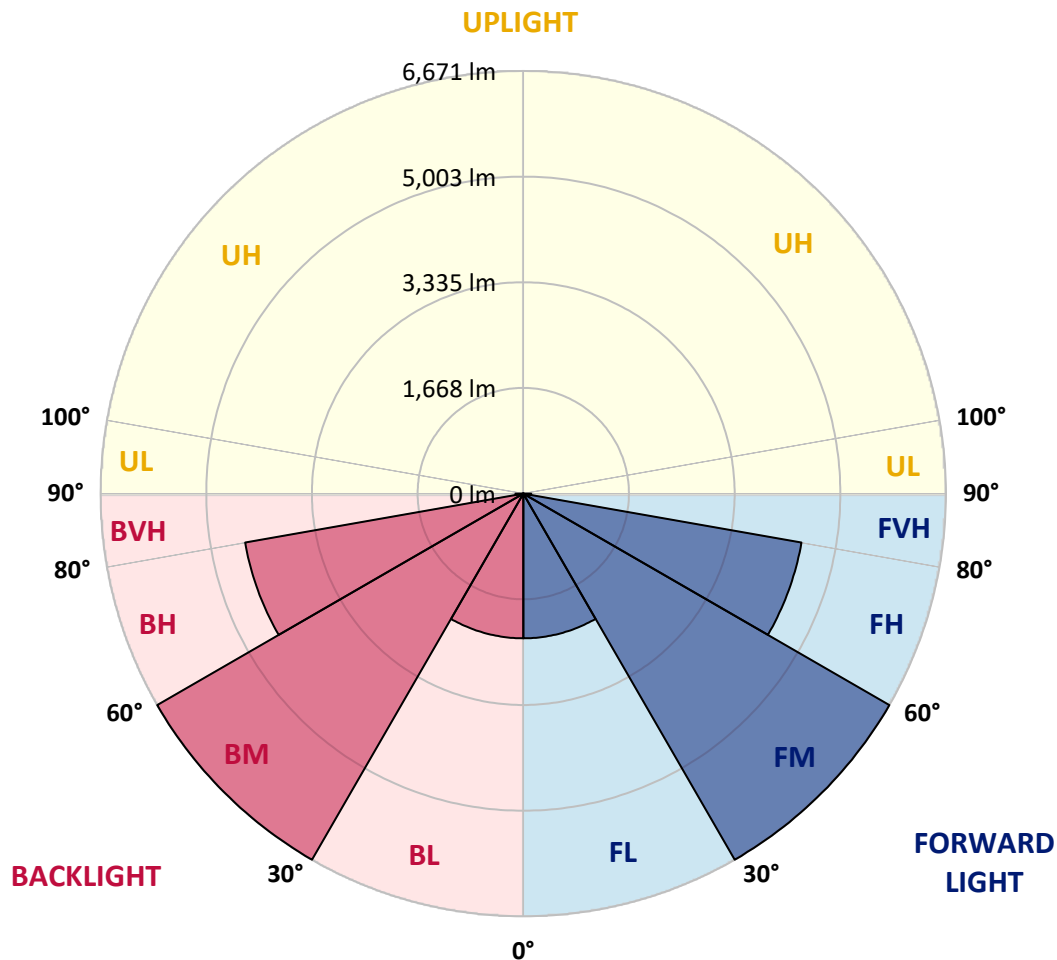
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2282.5	8.4			
FM (30°-60°)	6670.8	24.6			
FH (60°-80°)	4456.8	16.5			G2/5000
FVH (80°-90°)	124.9	0.5			G2/225
BL (0°-30°)	2282.5	8.4	B3/2500		
BM (30°-60°)	6670.8	24.6	B4/8500		
BH (60°-80°)	4456.8	16.5	B4/5000		G4/5000
BVH (80°-90°)	124.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4792.2	4792.2	4792.2	4792.2	4792.2	4792.2	4792.2	4792.2	4792.2	4792.2	4792.2
2.5°	4853.7	4850.7	4852.2	4850.7	4855.2	4852.2	4834.2	4819.2	4807.2	4808.7	4804.2
5°	4957.1	4958.6	4960.1	4952.6	4963.1	4957.1	4928.6	4904.7	4880.7	4871.7	4868.7
7.5°	5042.6	5050.1	5054.6	5062.0	5080.0	5080.0	5065.0	5030.6	4978.1	4948.1	4946.6
10°	5128.0	5134.0	5147.5	5171.5	5201.5	5229.9	5223.9	5177.5	5110.0	5059.1	5047.1
12.5°	5158.0	5165.5	5210.4	5279.4	5346.9	5402.3	5402.3	5364.8	5277.9	5200.0	5177.5
15°	5053.1	5066.5	5147.5	5294.4	5471.3	5592.7	5619.7	5567.2	5474.3	5354.3	5327.4
17.5°	4844.7	4877.7	4996.1	5213.4	5507.2	5759.1	5837.0	5811.5	5691.6	5538.7	5507.2
20°	4621.3	4657.3	4783.2	5071.0	5477.3	5856.5	6082.9	6088.8	5940.5	5718.6	5672.1
22.5°	4375.5	4402.5	4564.4	4901.7	5387.3	5879.0	6294.2	6397.6	6196.8	5898.5	5832.5
25°	4099.7	4129.7	4299.1	4663.3	5217.9	5853.5	6487.6	6715.4	6465.1	6090.3	6006.4
27.5°	3835.9	3847.9	4029.3	4399.5	4994.6	5787.6	6630.0	7007.7	6761.9	6249.2	6142.8
30°	3582.6	3611.0	3771.4	4137.2	4738.3	5658.6	6752.9	7340.5	7081.2	6415.6	6279.2
32.5°	3314.2	3348.7	3522.6	3892.8	4481.9	5465.3	6827.8	7704.7	7526.4	6685.4	6540.0
35°	3056.4	3078.9	3254.3	3614.0	4231.6	5240.4	6841.3	8115.5	8100.5	7094.7	6901.3
37.5°	2792.6	2825.6	3002.5	3347.2	3966.3	5002.1	6773.9	8551.7	8793.0	7662.8	7454.4
40°	2539.3	2567.7	2741.6	3089.4	3665.0	4711.3	6613.5	8950.4	9601.0	8247.4	7952.1
42.5°	2263.5	2271.0	2461.3	2815.1	3369.7	4374.0	6382.6	9305.7	10501.8	9031.3	8664.1
45°	1950.2	1969.7	2146.5	2494.3	3030.9	3996.3	6069.4	9599.5	11644.1	10118.1	9617.4
47.5°	1636.9	1653.4	1815.3	2158.5	2660.7	3563.1	5586.7	9857.3	12816.3	11498.7	10842.1
50°	1331.1	1340.1	1472.0	1776.3	2244.0	3107.4	4988.6	9939.7	14141.4	13453.3	12615.4
52.5°	1052.3	1065.8	1166.2	1404.5	1798.8	2569.2	4342.5	9735.9	15688.3	15770.7	14589.6
55°	852.9	857.4	932.4	1107.7	1406.0	2005.6	3563.1	9167.7	17352.2	18740.2	17233.8
57.5°	734.5	737.5	779.5	876.9	1082.3	1512.5	2764.1	8093.0	18846.7	22219.4	20282.7
60°	667.0	668.5	692.5	749.5	857.4	1160.2	1980.2	6576.0	20321.6	26091.2	24072.1
62.5°	625.1	625.1	641.6	673.0	725.5	890.4	1434.5	4744.3	21332.0	30020.0	28742.9
65°	584.6	584.6	596.6	619.1	647.6	728.5	1059.8	3093.9	21306.5	32881.6	33440.7
67.5°	538.1	538.1	547.1	569.6	586.1	626.6	818.4	2026.6	19139.0	32818.6	36004.0
70°	482.7	482.7	494.7	514.1	527.6	553.1	646.1	1386.6	14060.4	28021.9	32019.7
72.5°	427.2	428.7	436.2	455.7	466.2	481.2	536.6	971.3	8625.1	19080.5	22388.7
75°	365.8	368.7	376.2	395.7	404.7	410.7	452.7	692.5	4363.5	10287.5	11713.0
77.5°	295.3	301.3	305.8	326.8	332.8	341.8	373.2	500.7	1915.7	3696.5	3729.5
80°	215.9	223.3	236.8	256.3	260.8	266.8	284.8	355.3	867.9	1687.8	1833.3
82.5°	158.9	169.4	152.9	178.4	178.4	170.9	200.9	238.3	398.7	1671.4	1999.6
85°	86.9	88.4	79.4	91.4	97.4	95.9	106.4	116.9	193.4	1115.2	1149.7
87.5°	21.0	22.5	24.0	28.5	34.5	34.5	37.5	33.0	63.0	361.3	206.9
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)