

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: P454208

Luminaire Tested: **GALN-SA5B-740-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454208  
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-SA5B-740-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28446 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

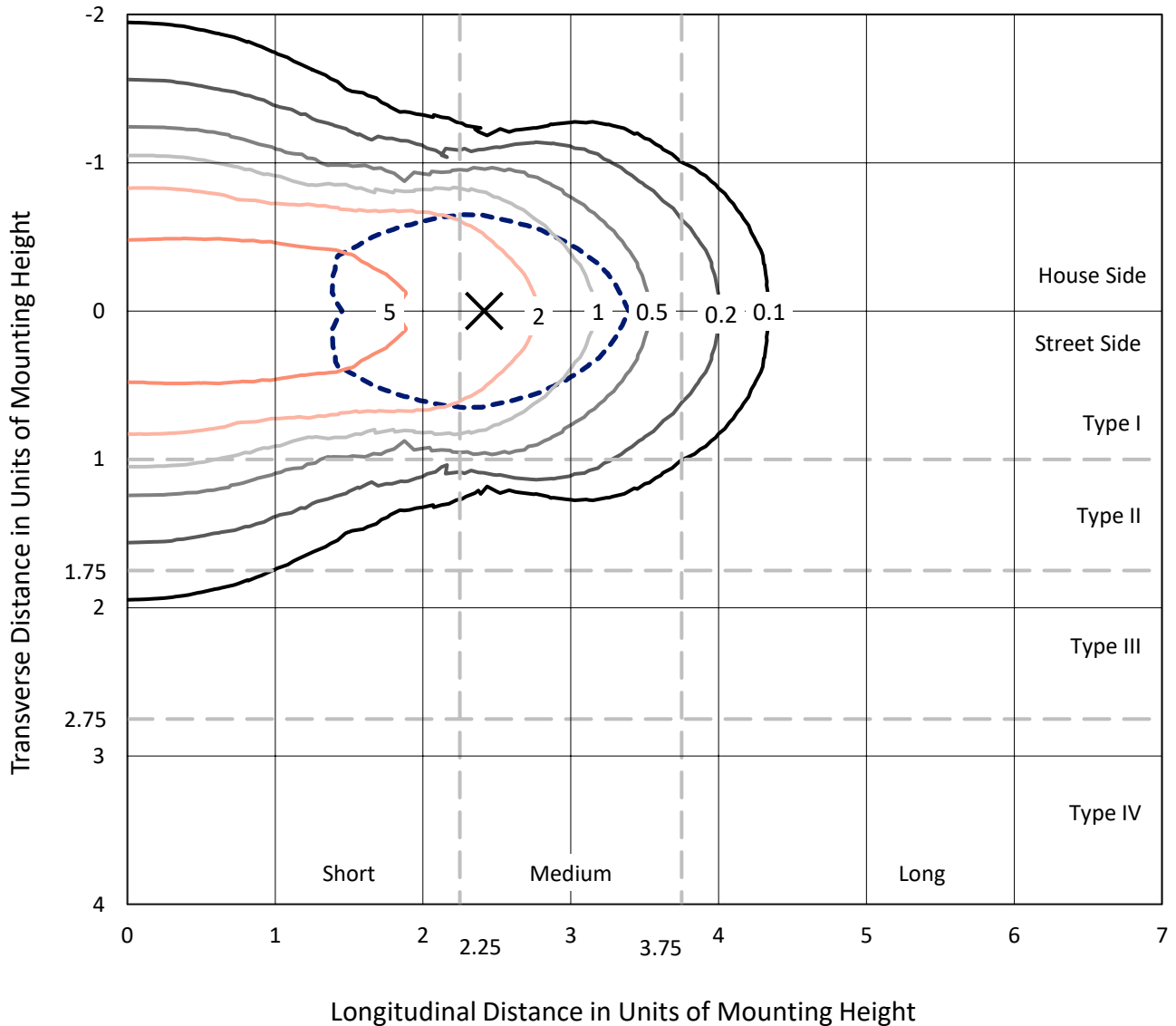
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

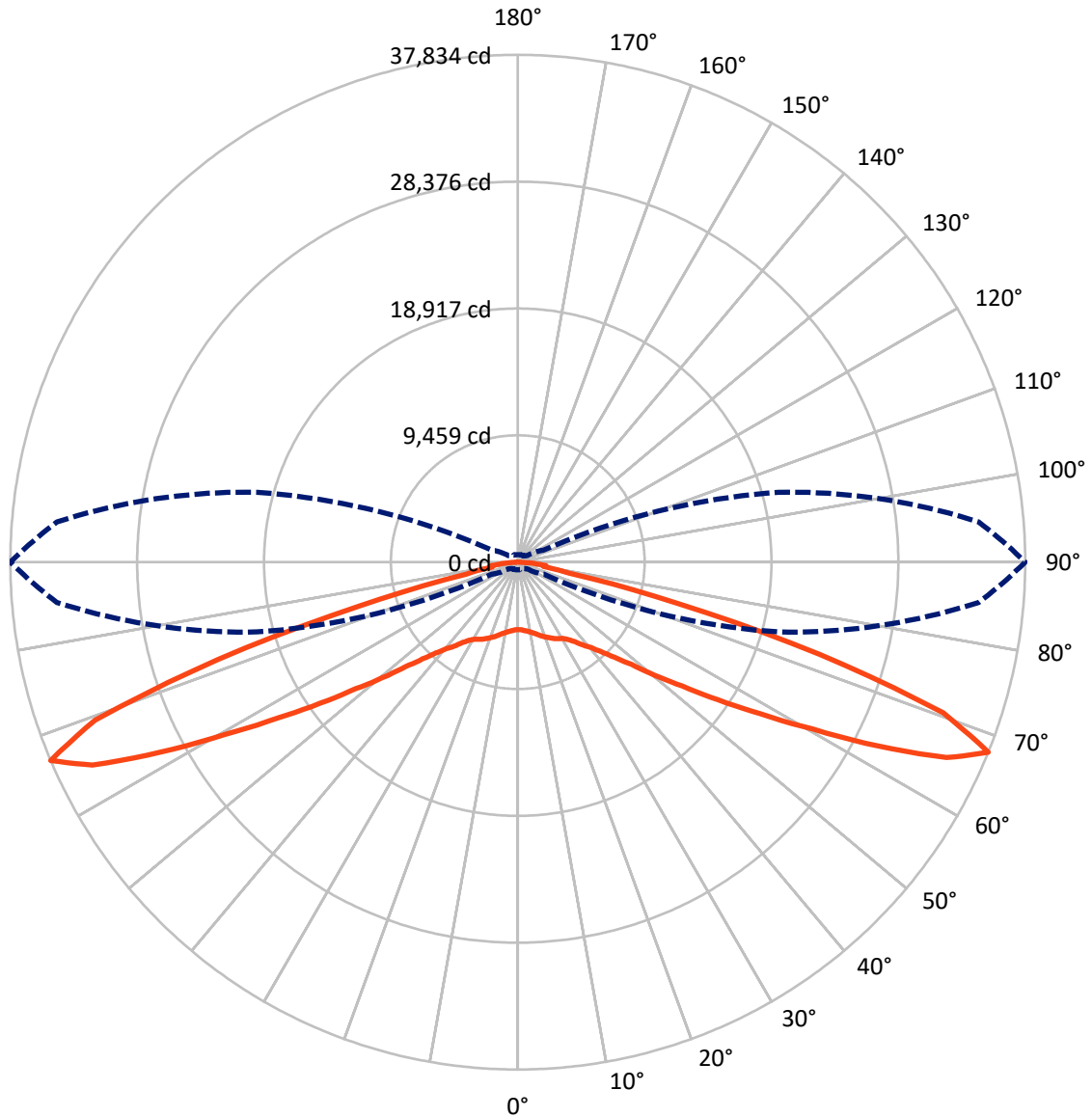
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	14223.0	0.0	14223.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14223.0	0.0	14223.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28446.0	0.0	28446.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.1	1.8
10°-20°	1606.4	5.6
20°-30°	2688.6	9.5
30°-40°	3642.4	12.8
40°-50°	4613.7	16.2
50°-60°	5763.7	20.3
60°-70°	6774.9	23.8
70°-80°	2591.7	9.1
80°-90°	262.6	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°	28446.0	100.0
0°-180°	28446.0	100.0

**Coefficient of Utilization**



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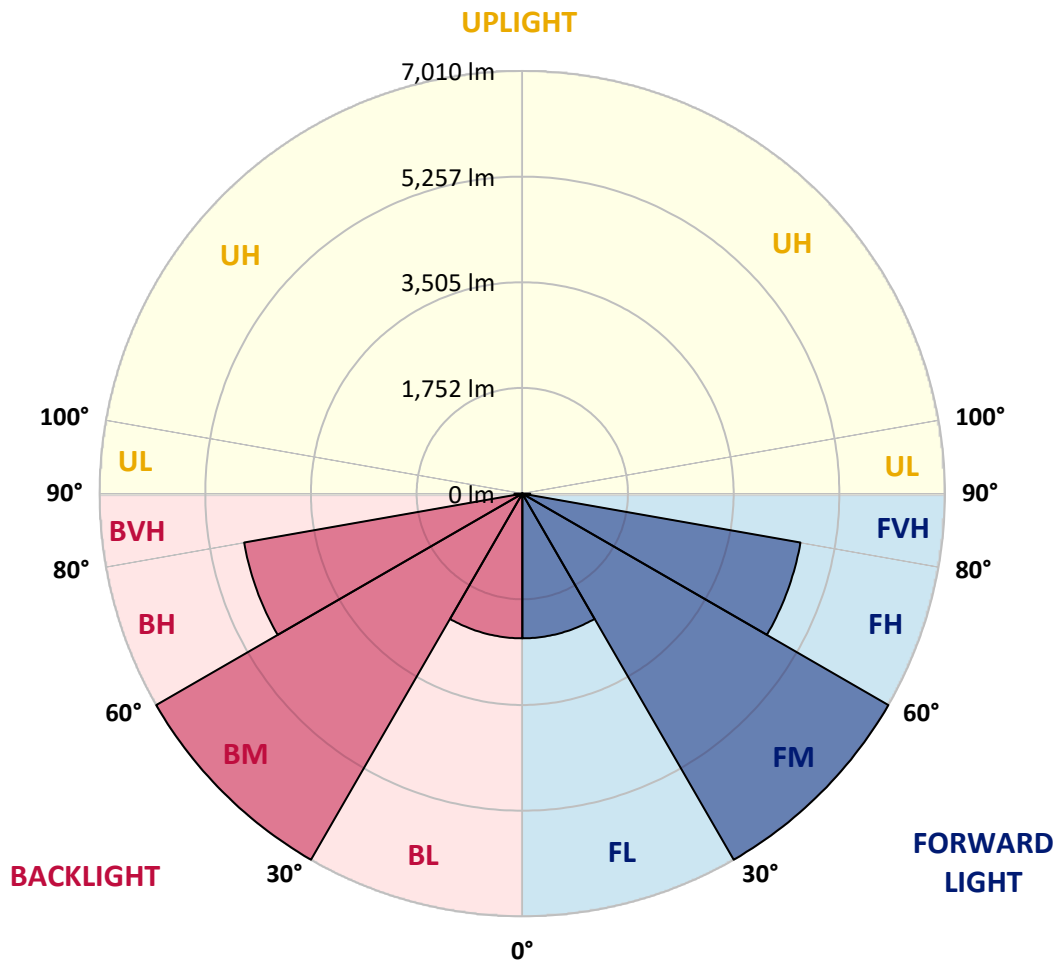
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2398.5	8.4			
FM (30°-60°)	7009.9	24.6			
FH (60°-80°)	4683.3	16.5			G2/5000
FVH (80°-90°)	131.3	0.5			G2/225
BL (0°-30°)	2398.5	8.4	B3/2500		
BM (30°-60°)	7009.9	24.6	B4/8500		
BH (60°-80°)	4683.3	16.5	B4/5000		G4/5000
BVH (80°-90°)	131.3	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°	5035.8	5035.8	5035.8	5035.8	5035.8	5035.8	5035.8	5035.8	5035.8	5035.8	5035.8
2.5°	5100.4	5097.3	5098.8	5097.3	5102.0	5098.8	5079.9	5064.2	5051.6	5053.2	5048.4
5°	5209.1	5210.7	5212.2	5204.4	5215.4	5209.1	5179.2	5154.0	5128.8	5119.3	5116.2
7.5°	5298.9	5306.8	5311.5	5319.4	5338.3	5338.3	5322.5	5286.3	5231.1	5199.6	5198.1
10°	5388.7	5395.0	5409.1	5434.3	5465.8	5495.8	5489.5	5440.6	5369.8	5316.2	5303.6
12.5°	5420.2	5428.0	5475.3	5547.8	5618.6	5676.9	5676.9	5637.5	5546.2	5464.3	5440.6
15°	5309.9	5324.1	5409.1	5563.5	5749.4	5877.0	5905.3	5850.2	5752.5	5626.5	5598.2
17.5°	5091.0	5125.6	5250.1	5478.5	5787.2	6051.8	6133.7	6106.9	5980.9	5820.3	5787.2
20°	4856.3	4894.1	5026.4	5328.8	5755.7	6154.2	6392.1	6398.4	6242.4	6009.3	5960.5
22.5°	4597.9	4626.3	4796.4	5150.8	5661.2	6177.8	6614.2	6722.8	6511.8	6198.3	6129.0
25°	4308.1	4339.6	4517.6	4900.4	5483.2	6151.1	6817.3	7056.8	6793.7	6399.9	6311.7
27.5°	4030.9	4043.5	4234.1	4623.1	5248.5	6081.7	6967.0	7363.9	7105.6	6566.9	6455.1
30°	3764.7	3794.6	3963.1	4347.5	4979.1	5946.3	7096.2	7713.6	7441.1	6741.7	6598.4
32.5°	3482.7	3518.9	3701.7	4090.7	4709.8	5743.1	7174.9	8096.4	7908.9	7025.3	6872.5
35°	3211.8	3235.4	3419.7	3797.7	4446.7	5506.8	7189.1	8528.0	8512.2	7455.3	7252.1
37.5°	2934.5	2969.2	3155.1	3517.4	4167.9	5256.4	7118.2	8986.4	9240.0	8052.3	7833.3
40°	2668.3	2698.3	2881.0	3246.4	3851.3	4950.8	6949.7	9405.4	10089.0	8666.6	8356.3
42.5°	2378.5	2386.4	2586.4	2958.2	3541.0	4596.4	6707.1	9778.7	11035.7	9490.4	9104.5
45°	2049.3	2069.8	2255.6	2621.1	3185.0	4199.4	6377.9	10087.4	12235.9	10632.4	10106.3
47.5°	1720.1	1737.4	1907.5	2268.2	2795.9	3744.2	5870.7	10358.3	13467.7	12083.2	11393.2
50°	1398.8	1408.2	1546.8	1866.6	2358.0	3265.3	5242.2	10445.0	14860.2	14137.2	13256.7
52.5°	1105.8	1119.9	1225.5	1475.9	1890.2	2699.8	4563.3	10230.7	16485.8	16572.4	15331.2
55°	896.3	901.0	979.8	1164.1	1477.5	2107.6	3744.2	9633.8	18234.2	19692.8	18109.8
57.5°	771.8	775.0	819.1	921.5	1137.3	1589.3	2904.6	8504.4	19804.6	23348.8	21313.7
60°	701.0	702.5	727.7	787.6	901.0	1219.2	2080.8	6910.3	21354.6	27417.5	25295.7
62.5°	656.8	656.8	674.2	707.3	762.4	935.7	1507.4	4985.4	22416.3	31546.0	30203.9
65°	614.3	614.3	626.9	650.5	680.5	765.5	1113.6	3251.2	22389.5	34553.0	35140.5
67.5°	565.5	565.5	574.9	598.6	615.9	658.4	860.0	2129.6	20111.8	34486.8	37834.1
70°	507.2	507.2	519.8	540.3	554.5	581.2	678.9	1457.0	14775.1	29446.3	33647.3
72.5°	448.9	450.5	458.4	478.9	489.9	505.6	563.9	1020.7	9063.5	20050.4	23526.8
75°	384.3	387.5	395.4	415.8	425.3	431.6	475.7	727.7	4585.3	10810.4	12308.4
77.5°	310.3	316.6	321.3	343.4	349.7	359.1	392.2	526.1	2013.1	3884.4	3919.0
80°	226.8	234.7	248.9	269.4	274.1	280.4	299.3	373.3	912.0	1773.6	1926.4
82.5°	167.0	178.0	160.7	187.4	187.4	179.6	211.1	250.5	419.0	1756.3	2101.3
85°	91.4	92.9	83.5	96.1	102.4	100.8	111.8	122.9	203.2	1171.9	1208.2
87.5°	22.1	23.6	25.2	29.9	36.2	36.2	39.4	34.7	66.2	379.6	217.4
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)