

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: P456280

Luminaire Tested: **GALN-SA7C-740-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-740-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51359 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

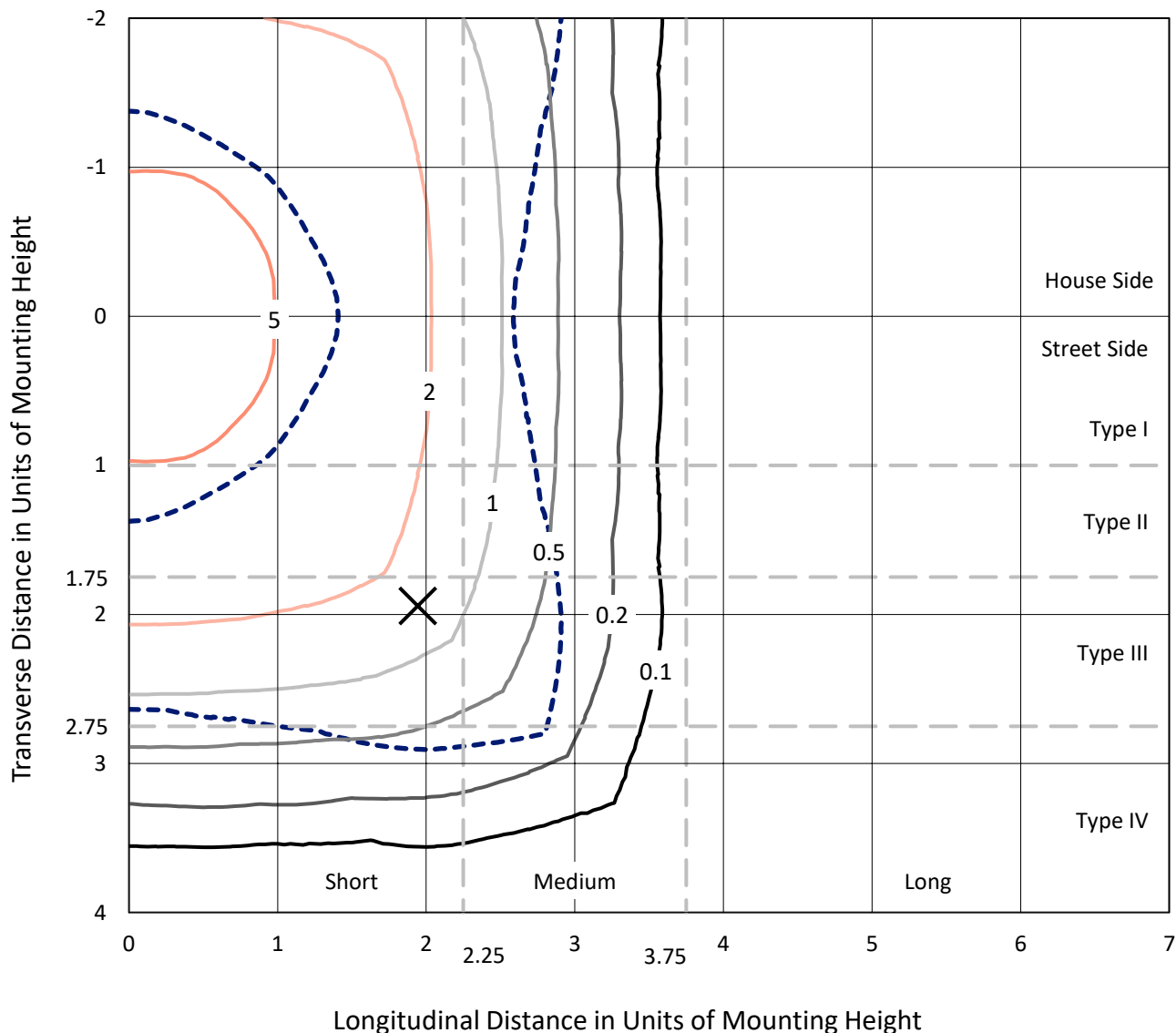
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

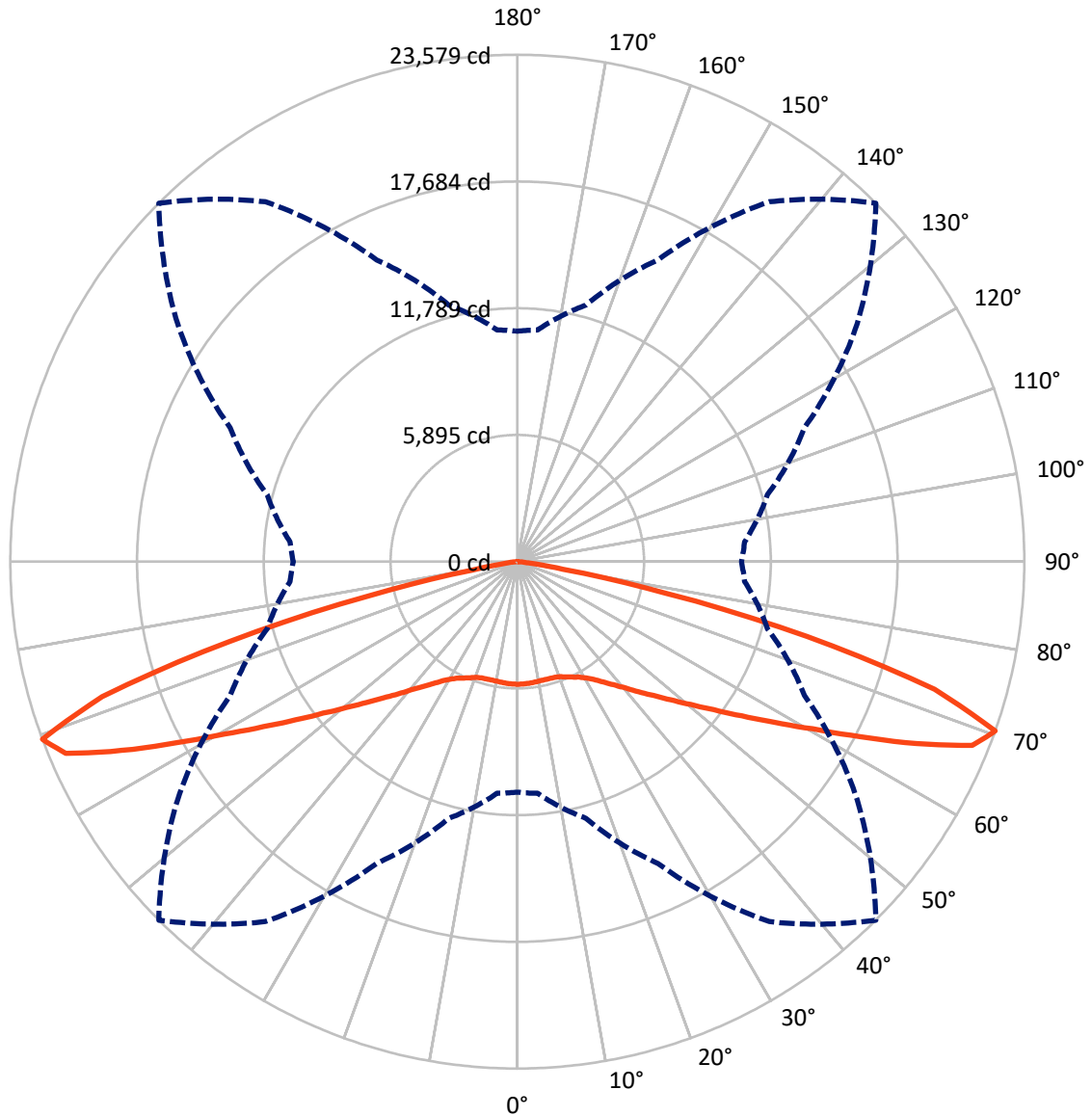
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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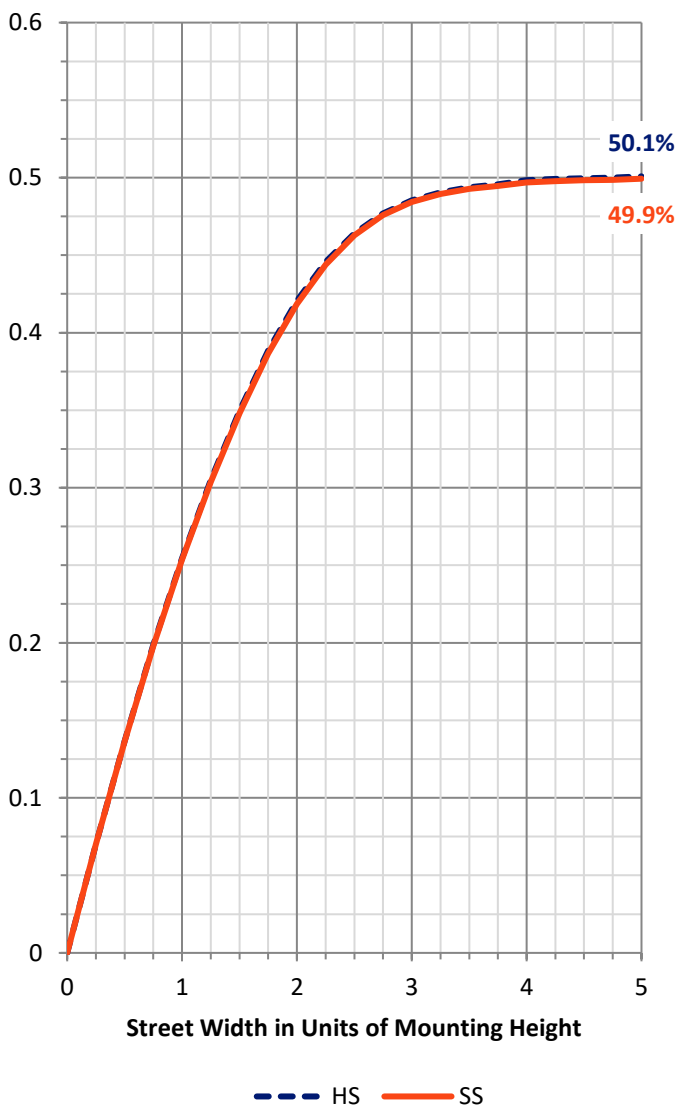
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25679.5	0.0	25679.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25679.5	0.0	25679.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51359.0	0.0	51359.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	540.8	1.1
10°-20°	1587.0	3.1
20°-30°	2714.3	5.3
30°-40°	4308.1	8.4
40°-50°	6950.1	13.5
50°-60°	11308.1	22.0
60°-70°	16392.6	31.9
70°-80°	7271.2	14.2
80°-90°	286.8	0.6
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°	51359.0	100.0
0°-180°	51359.0	100.0

**Coefficient of Utilization**



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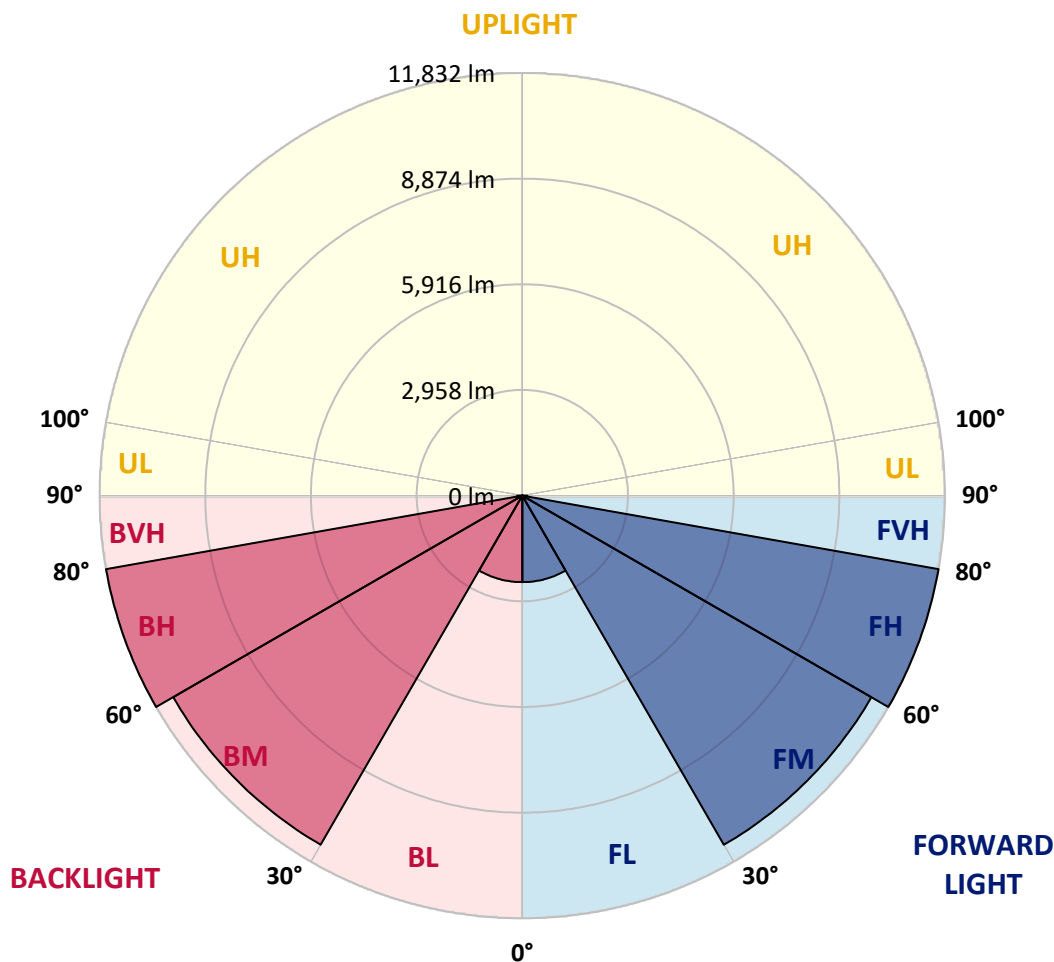
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2421.1	4.7			
FM	(30°-60°)	11283.2	22.0			
FH	(60°-80°)	11831.9	23.0			G4/12000
FVH	(80°-90°)	143.4	0.3			G2/225
BL	(0°-30°)	2421.1	4.7	B3/2500		
BM	(30°-60°)	11283.2	22.0	B5		
BH	(60°-80°)	11831.9	23.0	B5		G4/12000
BVH	(80°-90°)	143.4	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-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2	5703.2
2.5°	5703.2	5708.6	5700.5	5695.1	5692.3	5692.3	5689.6	5692.3	5708.6	5711.3	5703.2
5°	5686.9	5692.3	5689.6	5684.2	5681.5	5681.5	5678.8	5676.1	5689.6	5695.1	5692.3
7.5°	5665.3	5668.0	5665.3	5662.6	5665.3	5662.6	5654.5	5649.0	5659.9	5659.9	5657.2
10°	5627.4	5632.8	5630.1	5632.8	5638.2	5638.2	5627.4	5616.6	5619.3	5613.9	5613.9
12.5°	5581.4	5589.5	5592.2	5603.0	5616.6	5632.8	5608.4	5584.1	5578.7	5576.0	5573.2
15°	5551.6	5559.7	5570.5	5581.4	5605.7	5640.9	5605.7	5567.8	5557.0	5546.2	5540.8
17.5°	5543.5	5554.3	5570.5	5586.8	5619.3	5654.5	5624.7	5586.8	5559.7	5543.5	5538.1
20°	5565.1	5573.2	5597.6	5627.4	5673.4	5708.6	5678.8	5638.2	5597.6	5573.2	5565.1
22.5°	5608.4	5622.0	5651.7	5705.9	5770.8	5822.3	5781.7	5714.0	5649.0	5616.6	5605.7
25°	5703.2	5714.0	5749.2	5822.3	5898.1	5946.8	5903.5	5825.0	5735.7	5692.3	5678.8
27.5°	5846.6	5862.9	5900.8	5987.4	6049.6	6076.7	6046.9	5992.8	5927.8	5881.8	5871.0
30°	6049.6	6068.6	6125.4	6217.5	6258.1	6274.3	6260.8	6225.6	6179.6	6130.8	6120.0
32.5°	6323.0	6333.9	6398.8	6485.4	6523.3	6528.7	6512.5	6496.3	6420.5	6339.3	6333.9
35°	6628.9	6647.8	6726.3	6829.2	6864.4	6867.1	6834.6	6810.2	6720.9	6656.0	6656.0
37.5°	7034.9	7043.0	7118.8	7235.2	7273.1	7262.3	7246.0	7224.4	7129.6	7045.7	7048.4
40°	7511.3	7527.5	7592.5	7727.8	7727.8	7714.3	7725.1	7708.9	7614.2	7533.0	7535.7
42.5°	8077.0	8085.1	8163.6	8307.1	8296.3	8269.2	8280.0	8258.4	8198.8	8106.8	8074.3
45°	8680.6	8713.1	8848.4	8986.5	8964.8	8878.2	8921.5	8916.1	8862.0	8723.9	8732.1
47.5°	9408.7	9462.9	9592.8	9757.9	9733.6	9598.2	9646.9	9679.4	9603.6	9452.1	9425.0
50°	10228.9	10264.1	10456.3	10610.6	10588.9	10445.4	10556.4	10561.8	10372.4	10158.5	10158.5
52.5°	11103.2	11138.4	11398.2	11639.1	11652.7	11444.2	11533.6	11528.2	11219.6	10938.1	10883.9
55°	12083.0	12099.3	12434.9	12789.5	12865.3	12662.3	12673.1	12564.8	12164.2	11836.7	11807.0
57.5°	13095.4	13154.9	13525.8	13985.9	14210.6	14086.1	14029.2	13739.6	13352.5	12976.3	12957.3
60°	14216.0	14218.7	14700.5	15244.6	15699.3	15783.2	15550.4	15163.4	14662.6	14164.6	14142.9
62.5°	14992.8	15109.2	15718.2	16638.5	17453.3	17924.3	17309.8	16497.8	15512.5	14708.6	14627.4
65°	15152.5	15231.0	16159.4	17718.5	19383.2	20398.3	18977.2	17250.3	15569.4	14497.5	14443.4
67.5°	13861.4	13945.3	15195.8	17588.6	20736.6	22818.1	20059.9	16887.6	14605.8	13279.4	13173.9
70°	10721.5	10816.3	12361.8	15482.8	20436.2	23578.7	19288.5	14730.3	12045.1	10613.3	10421.1
72.5°	5700.5	6049.6	7370.5	10626.8	16587.1	20300.8	15815.7	10748.6	7768.4	6350.1	6095.7
75°	2081.5	2124.8	2861.1	4712.5	9649.7	13920.9	10020.5	5126.6	2947.7	2276.4	2160.0
77.5°	860.8	858.0	942.0	1423.8	3505.3	7129.6	3911.3	1505.0	939.3	868.9	858.0
80°	508.9	508.9	560.3	592.8	923.0	2151.9	1031.3	671.3	563.0	514.3	522.4
82.5°	227.4	240.9	354.6	373.5	446.6	590.1	498.0	427.7	368.1	254.4	230.1
85°	124.5	108.3	186.8	194.9	213.8	219.2	235.5	232.8	213.8	124.5	127.2
87.5°	24.4	29.8	54.1	40.6	46.0	40.6	54.1	75.8	78.5	43.3	35.2
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)