

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: P650995

Luminaire Tested: **GALN-SA7C-840-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650995  
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-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 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: 43192.9 lumens  
Efficiency: N/A  
Efficacy: 114.6 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

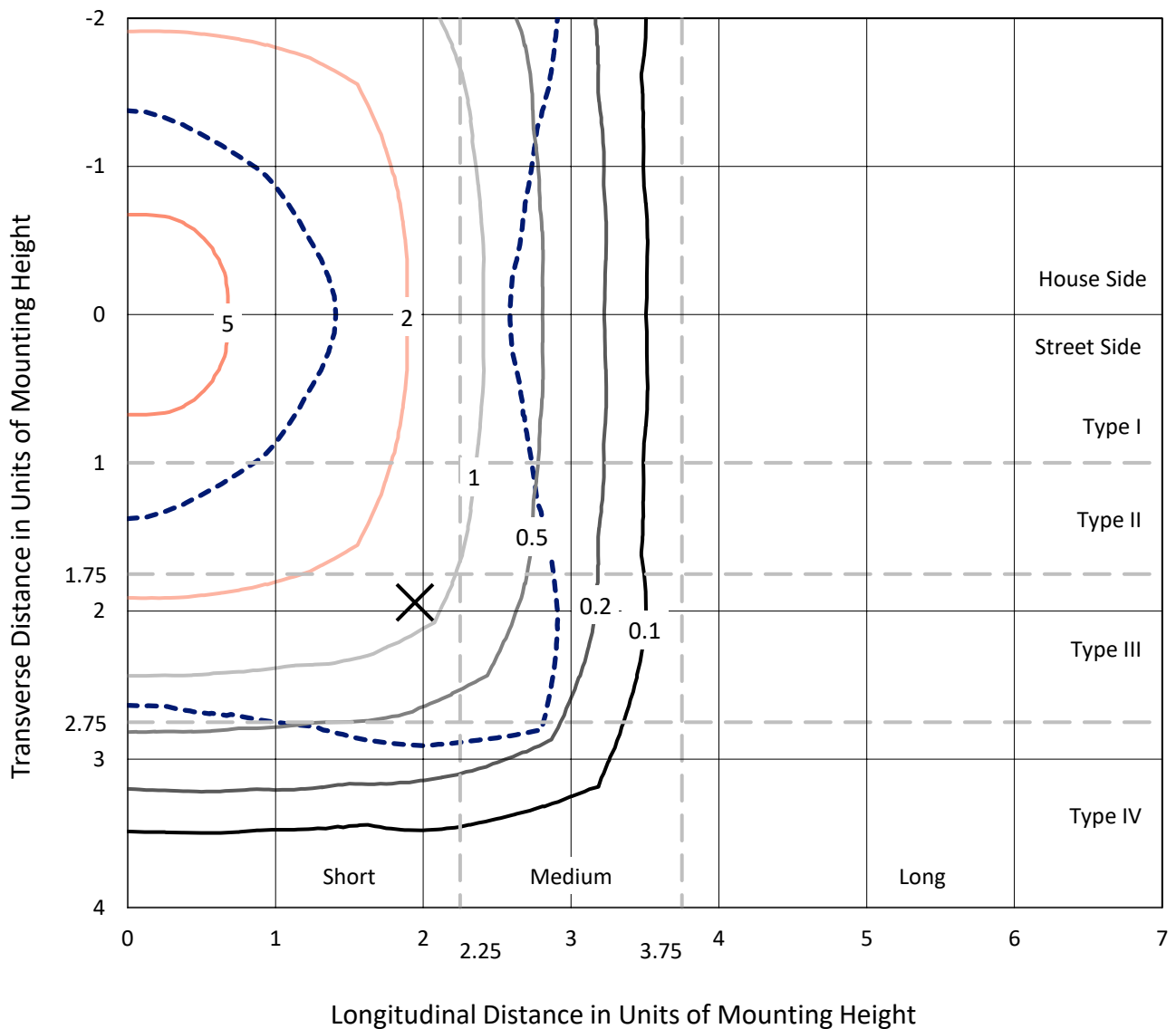
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

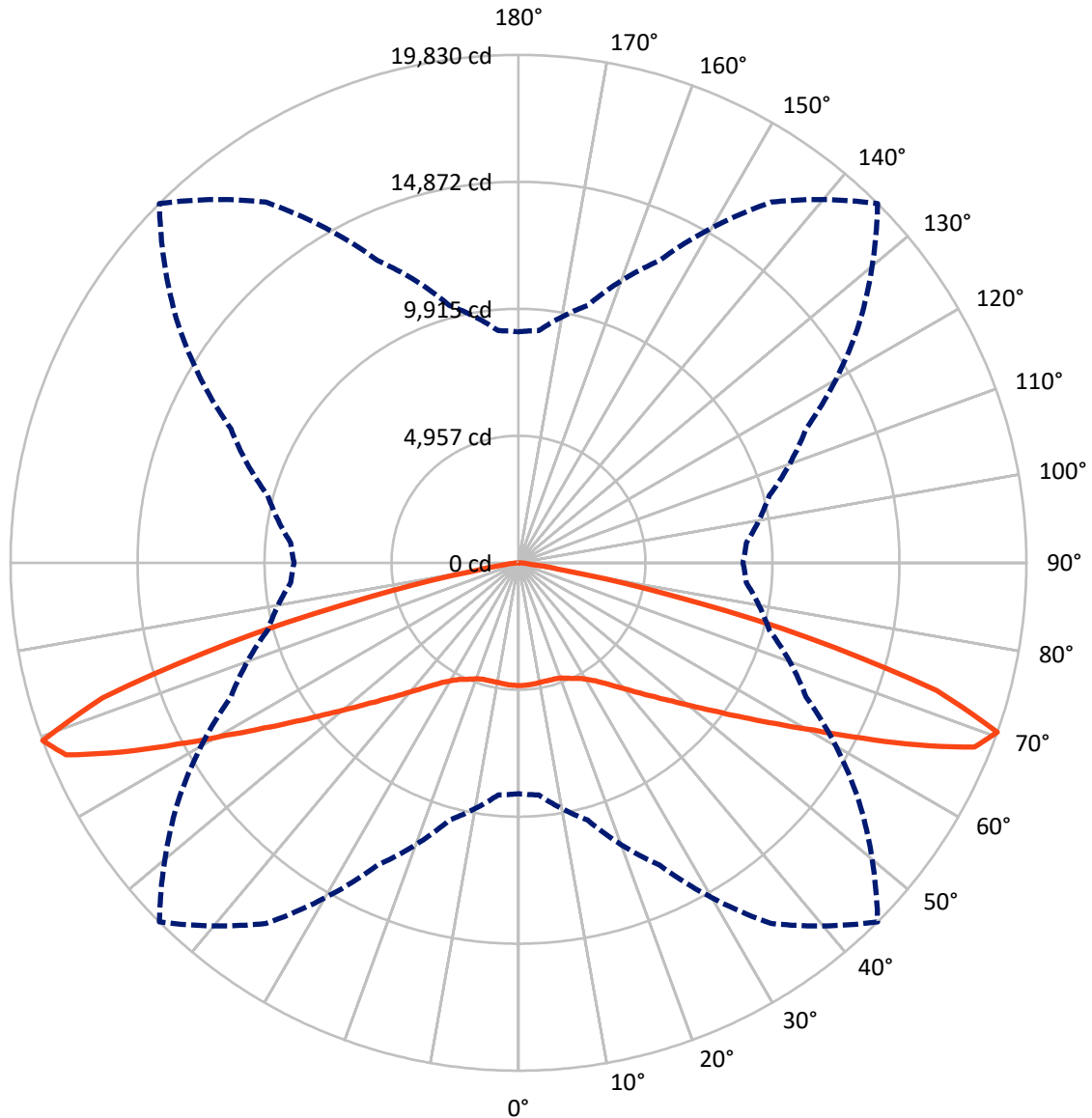
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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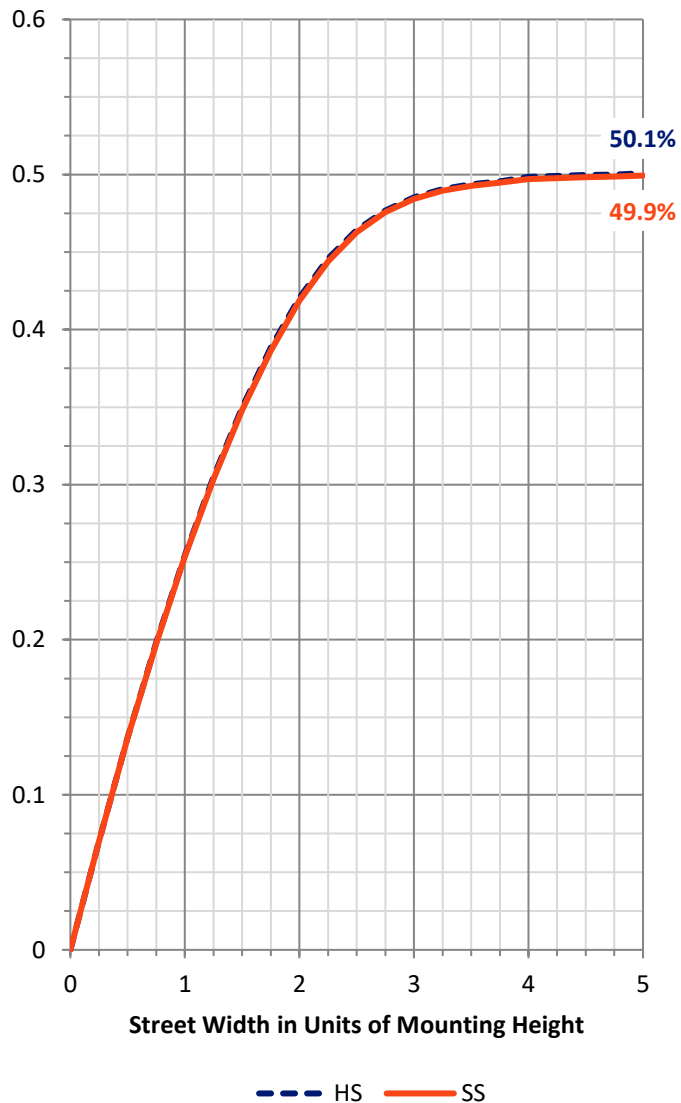
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21596.5	0.0	21596.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21596.5	0.0	21596.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43192.9	0.0	43192.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.8	1.1
10°-20°	1334.7	3.1
20°-30°	2282.7	5.3
30°-40°	3623.1	8.4
40°-50°	5845.1	13.5
50°-60°	9510.1	22.0
60°-70°	13786.2	31.9
70°-80°	6115.1	14.2
80°-90°	241.2	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°	43192.9	100.0
0°-180°	43192.9	100.0

**Coefficient of Utilization**



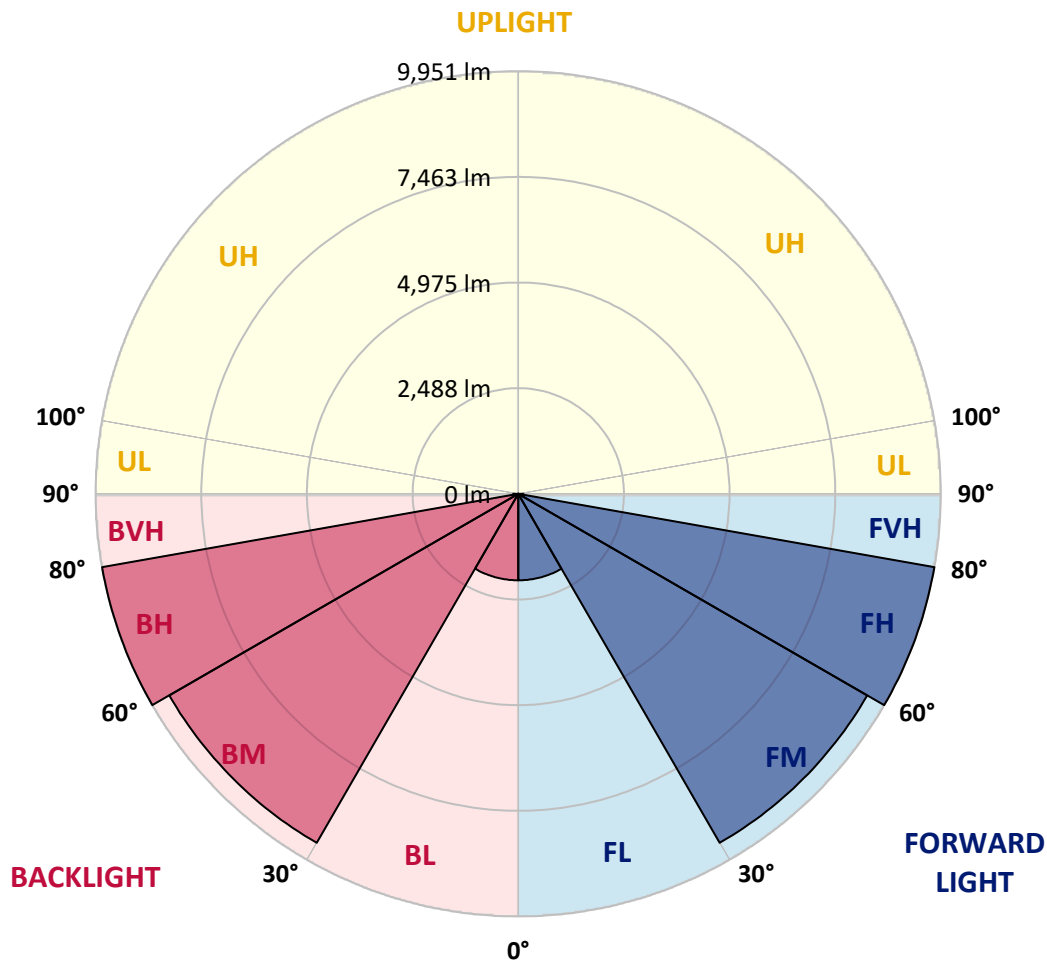
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2036.1	4.7			
FM (30°-60°)	9489.1	22.0			
FH (60°-80°)	9950.6	23.0			G4/12000
FVH (80°-90°)	120.6	0.3			G2/225
BL (0°-30°)	2036.1	4.7	B3/2500		
BM (30°-60°)	9489.1	22.0	B5		
BH (60°-80°)	9950.6	23.0	B5		G4/12000
BVH (80°-90°)	120.6	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°	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4	4796.4
2.5°	4796.4	4800.9	4794.1	4789.6	4787.2	4787.2	4785.0	4787.2	4800.9	4803.2	4796.4
5°	4782.7	4787.2	4785.0	4780.4	4778.1	4778.1	4775.9	4773.6	4785.0	4789.6	4787.2
7.5°	4764.5	4766.8	4764.5	4762.2	4764.5	4762.2	4755.4	4750.8	4760.0	4760.0	4757.7
10°	4732.6	4737.2	4734.9	4737.2	4741.7	4741.7	4732.6	4723.6	4725.8	4721.3	4721.3
12.5°	4694.0	4700.8	4703.0	4712.1	4723.6	4737.2	4716.7	4696.2	4691.7	4689.4	4687.1
15°	4668.9	4675.7	4684.8	4694.0	4714.4	4744.0	4714.4	4682.5	4673.4	4664.4	4659.8
17.5°	4662.1	4671.2	4684.8	4698.5	4725.8	4755.4	4730.4	4698.5	4675.7	4662.1	4657.5
20°	4680.2	4687.1	4707.6	4732.6	4771.3	4800.9	4775.9	4741.7	4707.6	4687.1	4680.2
22.5°	4716.7	4728.1	4753.1	4798.7	4853.2	4896.6	4862.4	4805.5	4750.8	4723.6	4714.4
25°	4796.4	4805.5	4835.1	4896.6	4960.3	5001.3	4964.8	4898.8	4823.7	4787.2	4775.9
27.5°	4917.0	4930.7	4962.6	5035.4	5087.7	5110.5	5085.4	5039.9	4985.3	4946.6	4937.5
30°	5087.7	5103.7	5151.5	5228.9	5263.1	5276.7	5265.3	5235.7	5197.0	5156.0	5146.9
32.5°	5317.6	5326.8	5381.4	5454.2	5486.1	5490.6	5477.0	5463.4	5399.6	5331.4	5326.8
35°	5574.9	5590.8	5656.8	5743.4	5773.0	5775.2	5747.9	5727.4	5652.3	5597.7	5597.7
37.5°	5916.4	5923.2	5986.9	6084.8	6116.7	6107.6	6093.9	6075.7	5996.0	5925.4	5927.7
40°	6317.0	6330.6	6385.3	6499.1	6499.1	6487.7	6496.8	6483.2	6403.5	6335.3	6337.5
42.5°	6792.8	6799.6	6865.6	6986.3	6977.2	6954.4	6963.5	6945.3	6895.2	6817.8	6790.5
45°	7300.4	7327.7	7441.5	7557.6	7539.4	7466.6	7503.0	7498.4	7452.9	7336.8	7343.7
47.5°	7912.7	7958.3	8067.5	8206.4	8186.0	8072.1	8113.0	8140.4	8076.6	7949.2	7926.4
50°	8602.5	8632.1	8793.7	8923.5	8905.3	8784.6	8877.9	8882.5	8723.2	8543.3	8543.3
52.5°	9337.8	9367.4	9585.9	9788.5	9799.9	9624.6	9699.8	9695.2	9435.7	9198.9	9153.4
55°	10161.8	10175.5	10457.8	10756.0	10819.7	10649.0	10658.1	10567.0	10230.1	9954.7	9929.7
57.5°	11013.2	11063.3	11375.2	11762.1	11951.1	11846.4	11798.6	11555.0	11229.5	10913.1	10897.1
60°	11955.7	11957.9	12363.1	12820.7	13203.1	13273.7	13077.9	12752.4	12331.2	11912.4	11894.2
62.5°	12608.9	12706.8	13219.0	13993.0	14678.2	15074.3	14557.5	13874.6	13046.0	12369.9	12301.6
65°	12743.3	12809.3	13590.1	14901.3	16301.3	17155.0	15959.8	14507.5	13093.9	12192.4	12146.9
67.5°	11657.4	11728.0	12779.7	14792.0	17439.5	19190.0	16870.4	14202.5	12283.5	11168.0	11079.2
70°	9016.8	9096.5	10396.3	13021.0	17186.8	19829.7	16221.6	12388.2	10129.9	8925.8	8764.1
72.5°	4794.1	5087.7	6198.6	8937.1	13949.8	17073.0	13301.0	9039.6	6533.2	5340.4	5126.5
75°	1750.5	1787.0	2406.2	3963.2	8115.4	11707.5	8427.2	4311.5	2479.0	1914.5	1816.6
77.5°	723.9	721.6	792.2	1197.4	2948.0	5996.0	3289.4	1265.7	790.0	730.7	721.6
80°	428.0	428.0	471.2	498.5	776.2	1809.7	867.3	564.6	473.5	432.5	439.3
82.5°	191.2	202.6	298.2	314.1	375.6	496.3	418.8	359.7	309.6	214.0	193.5
85°	104.7	91.1	157.1	163.9	179.8	184.3	198.1	195.8	179.8	104.7	107.0
87.5°	20.5	25.1	45.5	34.1	38.7	34.1	45.5	63.7	66.0	36.4	29.6
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)