

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: P651490

Luminaire Tested: **GALN-SA7D-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651490
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-SA7D-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47526.6 lumens
Efficiency: N/A
Efficacy: 109.8 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

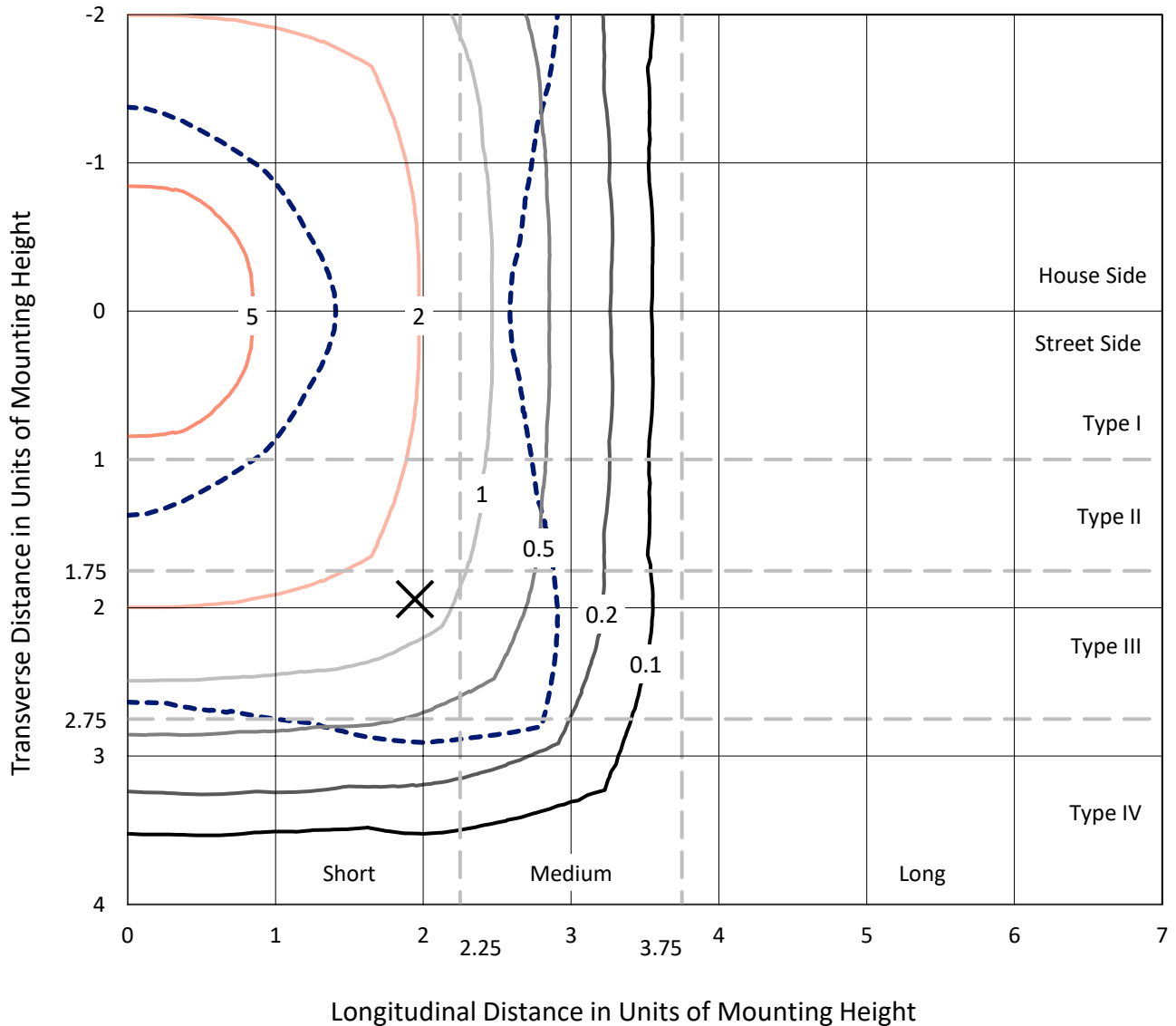
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

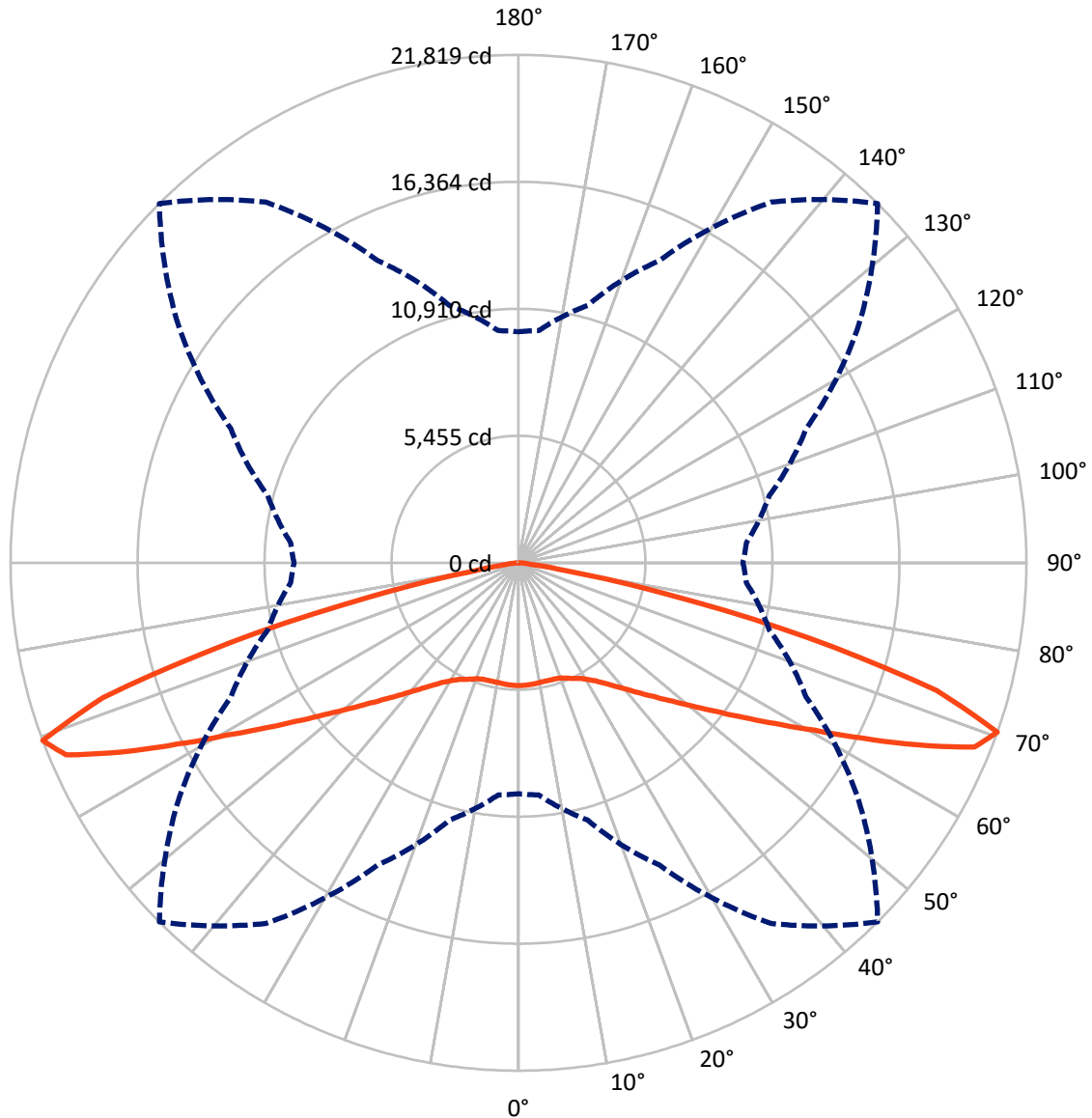
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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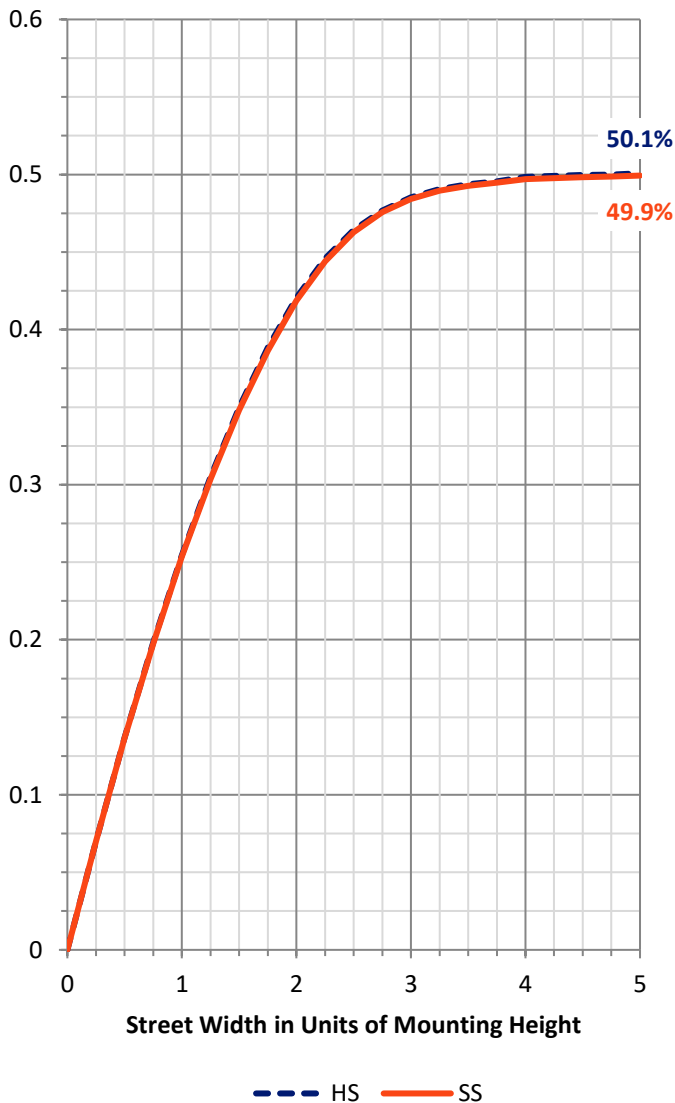
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23763.3	0.0	23763.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23763.3	0.0	23763.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	47526.6	0.0	47526.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.5	1.1
10°-20°	1468.6	3.1
20°-30°	2511.7	5.3
30°-40°	3986.7	8.4
40°-50°	6431.5	13.5
50°-60°	10464.2	22.0
60°-70°	15169.4	31.9
70°-80°	6728.6	14.2
80°-90°	265.4	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°	47526.6	100.0
0°-180°	47526.6	100.0

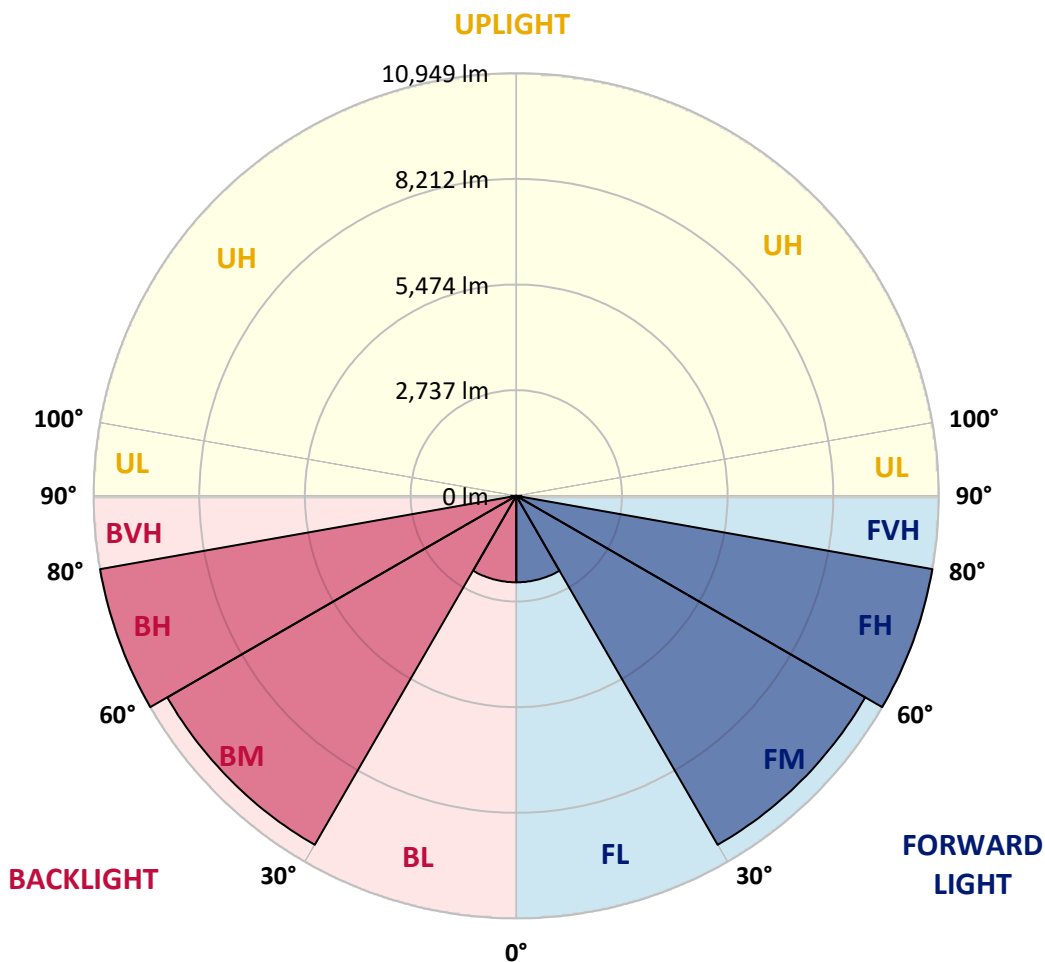


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2240.4	4.7			
FM (30°-60°)	10441.2	22.0			
FH (60°-80°)	10949.0	23.0			G4/12000
FVH (80°-90°)	132.7	0.3			G2/225
BL (0°-30°)	2240.4	4.7	B3/2500		
BM (30°-60°)	10441.2	22.0	B5		
BH (60°-80°)	10949.0	23.0	B5		G4/12000
BVH (80°-90°)	132.7	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°	5277.6	5277.6	5277.6	5277.6	5277.6	5277.6	5277.6	5277.6	5277.6	5277.6	5277.6
2.5°	5277.6	5282.6	5275.1	5270.1	5267.6	5267.6	5265.1	5267.6	5282.6	5285.1	5277.6
5°	5262.6	5267.6	5265.1	5260.0	5257.6	5257.6	5255.1	5252.5	5265.1	5270.1	5267.6
7.5°	5242.5	5245.1	5242.5	5240.0	5242.5	5240.0	5232.5	5227.5	5237.5	5237.5	5235.1
10°	5207.5	5212.5	5210.0	5212.5	5217.5	5217.5	5207.5	5197.5	5200.0	5194.9	5194.9
12.5°	5164.9	5172.4	5174.9	5184.9	5197.5	5212.5	5189.9	5167.4	5162.4	5159.9	5157.3
15°	5137.3	5144.8	5154.9	5164.9	5187.5	5220.0	5187.5	5152.4	5142.4	5132.3	5127.3
17.5°	5129.8	5139.9	5154.9	5169.9	5200.0	5232.5	5204.9	5169.9	5144.8	5129.8	5124.8
20°	5149.9	5157.3	5179.9	5207.5	5250.0	5282.6	5255.1	5217.5	5179.9	5157.3	5149.9
22.5°	5189.9	5202.4	5230.0	5280.1	5340.3	5387.8	5350.3	5287.6	5227.5	5197.5	5187.5
25°	5277.6	5287.6	5320.2	5387.8	5457.9	5503.0	5463.0	5390.3	5307.6	5267.6	5255.1
27.5°	5410.3	5425.4	5460.4	5540.6	5598.2	5623.3	5595.7	5545.6	5485.5	5443.0	5432.9
30°	5598.2	5615.8	5668.3	5753.5	5791.1	5806.1	5793.6	5761.0	5718.5	5673.4	5663.4
32.5°	5851.2	5861.2	5921.3	6001.5	6036.5	6041.6	6026.5	6011.5	5941.4	5866.2	5861.2
35°	6134.3	6151.7	6224.4	6319.6	6352.2	6354.7	6324.6	6302.0	6219.4	6159.3	6159.3
37.5°	6509.9	6517.5	6587.6	6695.3	6730.4	6720.3	6705.4	6685.3	6597.6	6520.0	6522.5
40°	6950.8	6965.8	7026.0	7151.2	7151.2	7138.7	7148.7	7133.7	7046.0	6970.9	6973.3
42.5°	7474.3	7481.8	7554.5	7687.2	7677.2	7652.2	7662.2	7642.2	7587.0	7501.9	7471.8
45°	8032.9	8062.9	8188.1	8315.9	8295.9	8215.7	8255.8	8250.8	8200.7	8072.9	8080.5
47.5°	8706.7	8756.7	8877.0	9029.8	9007.3	8882.0	8927.1	8957.2	8887.0	8746.7	8721.7
50°	9465.6	9498.2	9676.0	9818.8	9798.7	9666.0	9768.7	9773.7	9598.4	9400.5	9400.5
52.5°	10274.7	10307.2	10547.7	10770.6	10783.1	10590.3	10673.0	10667.9	10382.4	10121.9	10071.8
55°	11181.4	11196.4	11507.1	11835.1	11905.3	11717.4	11727.5	11627.2	11256.5	10953.4	10925.9
57.5°	12118.2	12173.3	12516.4	12942.3	13150.2	13035.0	12982.3	12714.3	12356.1	12008.0	11990.5
60°	13155.2	13157.7	13603.5	14107.0	14527.9	14605.5	14390.0	14031.8	13568.4	13107.6	13087.6
62.5°	13874.1	13981.8	14545.3	15396.9	16150.9	16586.8	16018.2	15266.8	14354.9	13611.1	13535.9
65°	14021.8	14094.5	14953.7	16396.4	17936.8	18876.2	17561.1	15963.0	14407.6	13415.7	13365.6
67.5°	12827.0	12904.7	14061.9	16276.1	19189.3	21115.4	18563.1	15627.4	13515.9	12288.5	12190.8
70°	9921.5	10009.2	11439.4	14327.4	18911.2	21819.2	17849.1	13631.1	11146.4	9821.3	9643.5
72.5°	5275.1	5598.2	6820.6	9833.8	15349.4	18786.0	14635.5	9946.5	7188.8	5876.2	5640.8
75°	1926.2	1966.3	2647.6	4360.8	8929.6	12882.2	9272.8	4744.1	2727.7	2106.5	1998.8
77.5°	796.5	794.0	871.7	1317.5	3243.7	6597.6	3619.4	1392.7	869.2	804.1	794.0
80°	470.9	470.9	518.5	548.6	854.1	1991.3	954.4	621.2	521.0	475.9	483.4
82.5°	210.4	222.9	328.2	345.7	413.3	546.1	460.9	395.8	340.7	235.5	212.9
85°	115.2	100.2	172.8	180.3	197.9	202.8	217.9	215.4	197.9	115.2	117.7
87.5°	22.5	27.6	50.1	37.6	42.6	37.6	50.1	70.1	72.7	40.1	32.5
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)