

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: P651027

Luminaire Tested: **GALN-SA7C-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651027
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-SA7C-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41109.8 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

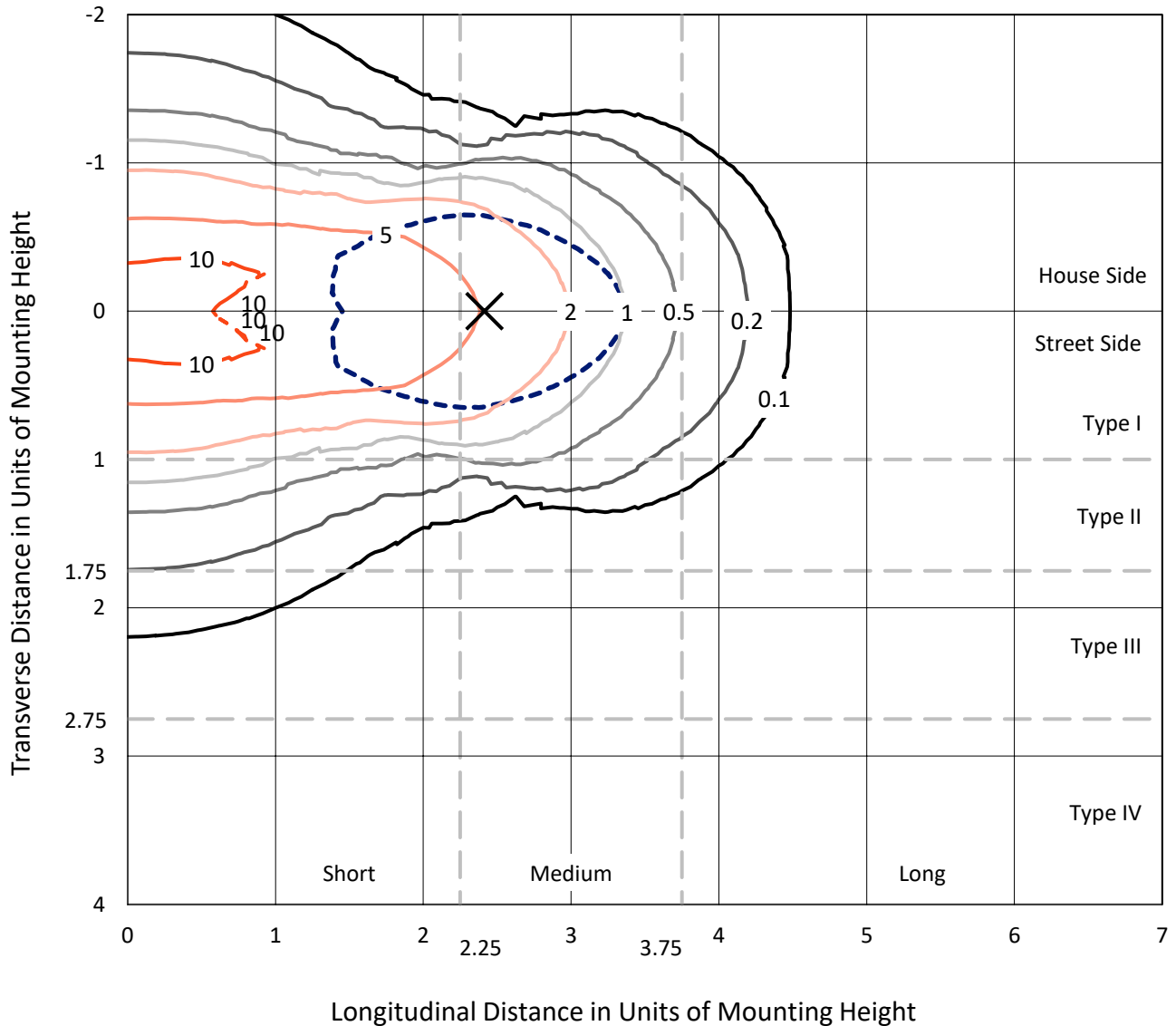
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

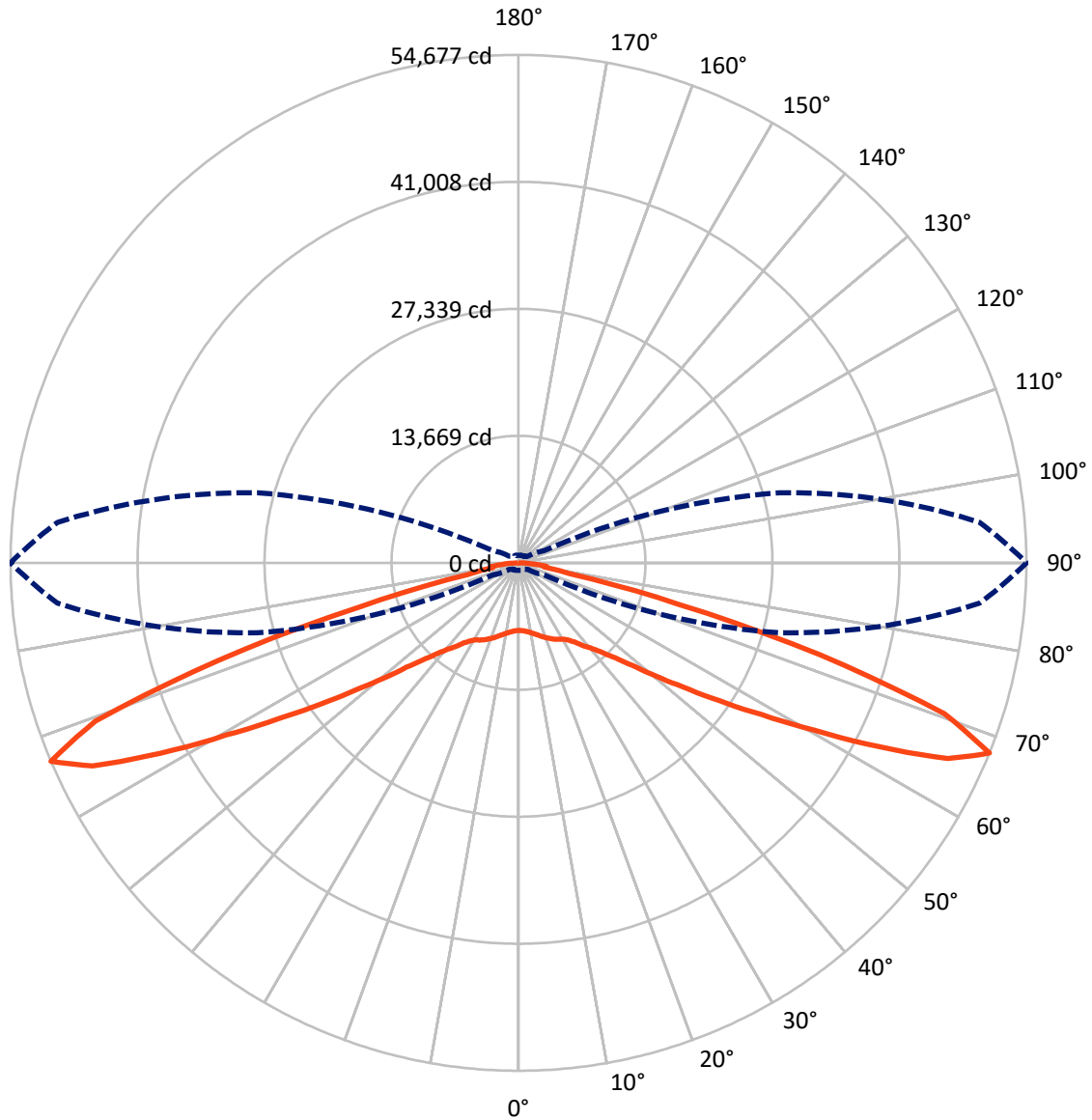
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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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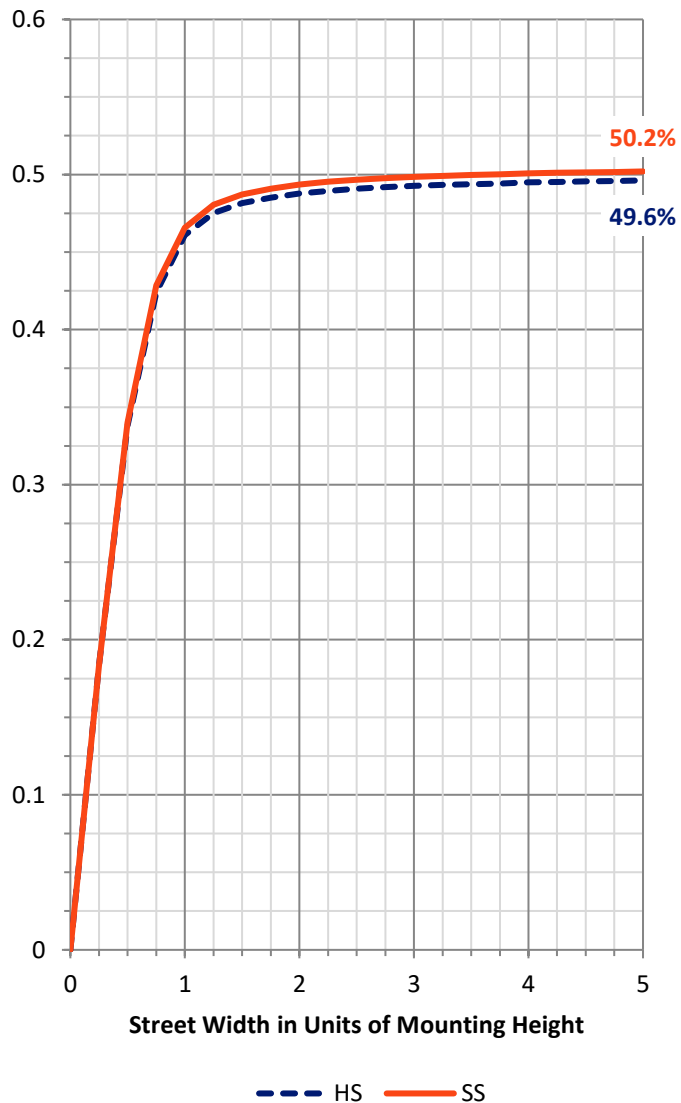
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20554.9	0.0	20554.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20554.9	0.0	20554.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	41109.8	0.0	41109.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.6	1.8
10°-20°	2321.5	5.6
20°-30°	3885.6	9.5
30°-40°	5263.9	12.8
40°-50°	6667.6	16.2
50°-60°	8329.6	20.3
60°-70°	9791.0	23.8
70°-80°	3745.5	9.1
80°-90°	379.5	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°	41109.8	100.0
0°-180°	41109.8	100.0

Coefficient of Utilization

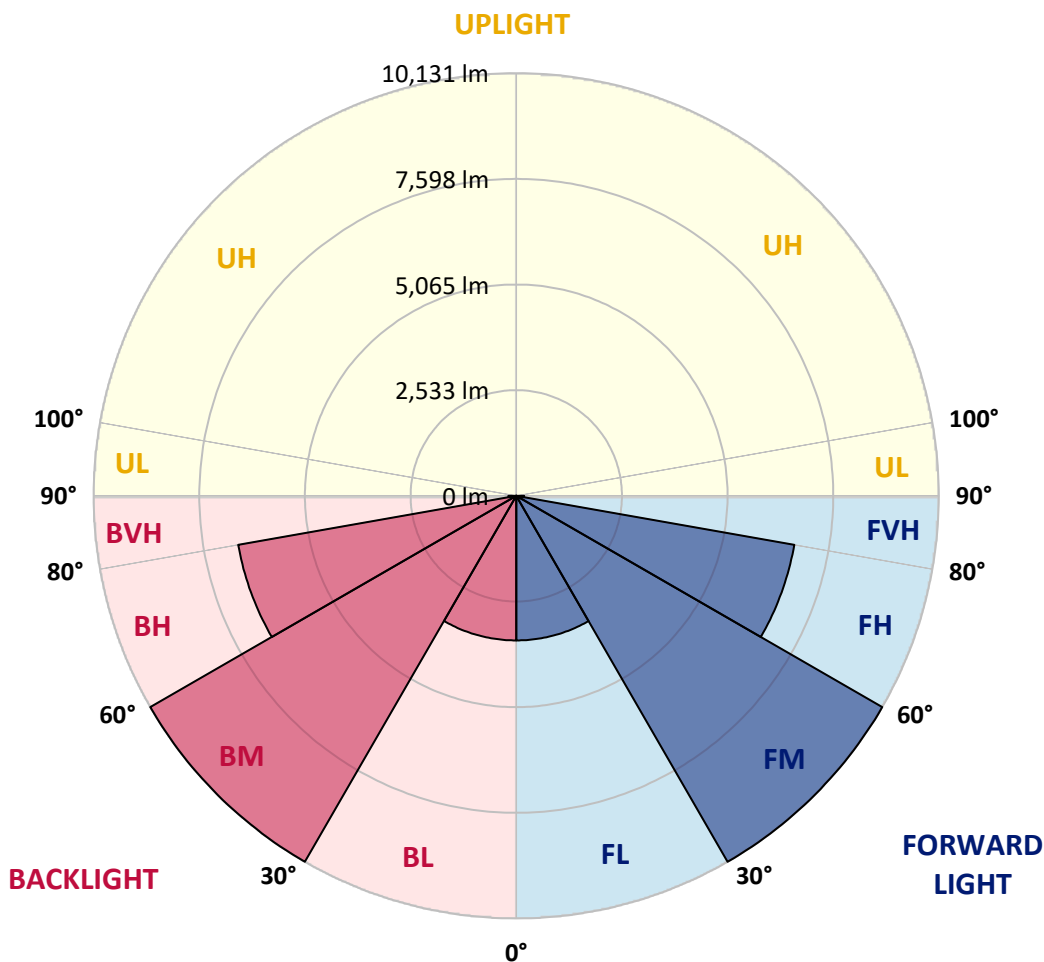


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3466.3	8.4			
FM (30°-60°)	10130.6	24.6			
FH (60°-80°)	6768.3	16.5			G3/7500
FVH (80°-90°)	189.7	0.5			G2/225
BL (0°-30°)	3466.3	8.4	B4/5000		
BM (30°-60°)	10130.6	24.6	B5		
BH (60°-80°)	6768.3	16.5	B5		G5
BVH (80°-90°)	189.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7277.7	7277.7	7277.7	7277.7	7277.7	7277.7	7277.7	7277.7	7277.7	7277.7	7277.7
2.5°	7371.0	7366.5	7368.8	7366.5	7373.3	7368.8	7341.4	7318.7	7300.5	7302.7	7295.9
5°	7528.1	7530.4	7532.7	7521.3	7537.2	7528.1	7484.9	7448.4	7412.0	7398.4	7393.8
7.5°	7657.9	7669.2	7676.1	7687.5	7714.7	7714.7	7692.0	7639.6	7560.0	7514.4	7512.1
10°	7787.7	7796.7	7817.2	7853.7	7899.2	7942.4	7933.3	7862.8	7760.3	7682.9	7664.7
12.5°	7833.2	7844.5	7912.8	8017.5	8120.0	8204.2	8204.2	8147.3	8015.2	7896.9	7862.8
15°	7673.8	7694.3	7817.2	8040.3	8308.9	8493.3	8534.3	8454.7	8313.5	8131.4	8090.4
17.5°	7357.4	7407.4	7587.3	7917.3	8363.6	8746.0	8864.4	8825.7	8643.5	8411.3	8363.6
20°	7018.2	7072.8	7264.1	7701.1	8318.0	8894.0	9237.7	9246.8	9021.4	8684.5	8613.9
22.5°	6644.8	6685.9	6931.7	7443.9	8181.4	8928.1	9558.6	9715.7	9410.7	8957.7	8857.6
25°	6226.0	6271.5	6528.8	7082.0	7924.2	8889.4	9852.3	10198.4	9818.2	9249.1	9121.6
27.5°	5825.4	5843.6	6119.0	6681.3	7585.1	8789.3	10068.6	10642.3	10268.9	9490.3	9328.8
30°	5440.6	5483.9	5727.5	6282.9	7195.8	8593.5	10255.2	11147.6	10753.8	9743.1	9535.9
32.5°	5033.1	5085.5	5349.6	5911.9	6806.5	8299.8	10369.1	11700.7	11429.9	10152.8	9932.0
35°	4641.6	4675.8	4942.1	5488.5	6426.3	7958.4	10389.5	12324.5	12301.7	10774.3	10480.6
37.5°	4241.0	4291.0	4559.6	5083.3	6023.4	7596.4	10287.1	12987.0	13353.5	11637.1	11320.6
40°	3856.2	3899.5	4163.5	4691.7	5565.8	7154.8	10043.6	13592.5	14580.4	12524.8	12076.4
42.5°	3437.4	3448.8	3737.9	4275.1	5117.4	6642.6	9692.9	14132.0	15948.6	13715.4	13157.7
45°	2961.6	2991.2	3259.8	3787.9	4602.9	6068.9	9217.2	14578.1	17683.2	15365.8	14605.5
47.5°	2485.8	2510.9	2756.7	3278.0	4040.7	5411.1	8484.2	14969.7	19463.3	17462.4	16465.4
50°	2021.4	2035.1	2235.5	2697.6	3407.8	4719.0	7575.9	15094.9	21475.7	20430.8	19158.3
52.5°	1598.1	1618.5	1771.1	2133.0	2731.7	3901.8	6594.8	14785.4	23825.0	23950.2	22156.4
55°	1295.3	1302.1	1415.9	1682.3	2135.3	3045.8	5411.1	13922.6	26351.8	28459.8	26172.0
57.5°	1115.4	1120.0	1183.7	1331.7	1643.6	2296.9	4197.7	12290.4	28621.4	33743.4	30802.2
60°	1013.0	1015.3	1051.7	1138.2	1302.1	1762.0	3007.2	9986.6	30861.4	39623.3	36557.0
62.5°	949.2	949.2	974.3	1022.2	1101.8	1352.2	2178.5	7204.8	32395.7	45589.9	43650.3
65°	887.8	887.8	906.0	940.2	983.4	1106.3	1609.4	4698.5	32357.0	49935.5	50784.6
67.5°	817.2	817.2	830.9	865.1	890.1	951.5	1242.9	3077.7	29065.3	49839.9	54677.3
70°	733.0	733.0	751.2	780.8	801.3	840.0	981.1	2105.7	21352.8	42555.4	48626.5
72.5°	648.7	651.0	662.5	692.1	708.0	730.7	814.9	1475.1	13098.5	28976.5	34000.5
75°	555.5	560.0	571.4	601.0	614.6	623.8	687.5	1051.7	6626.7	15623.1	17787.9
77.5°	448.4	457.6	464.4	496.3	505.4	519.1	566.8	760.3	2909.3	5613.7	5663.7
80°	327.8	339.2	359.7	389.3	396.1	405.2	432.5	539.5	1318.0	2563.3	2784.0
82.5°	241.3	257.3	232.2	270.9	270.9	259.5	305.0	362.0	605.5	2538.2	3036.8
85°	132.0	134.3	120.7	138.8	147.9	145.7	161.6	177.5	293.7	1693.7	1746.0
87.5°	31.9	34.1	36.4	43.2	52.4	52.4	56.9	50.0	95.6	548.6	314.1
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)