

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: P651495

Luminaire Tested: **GALN-SA7D-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38443.8 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

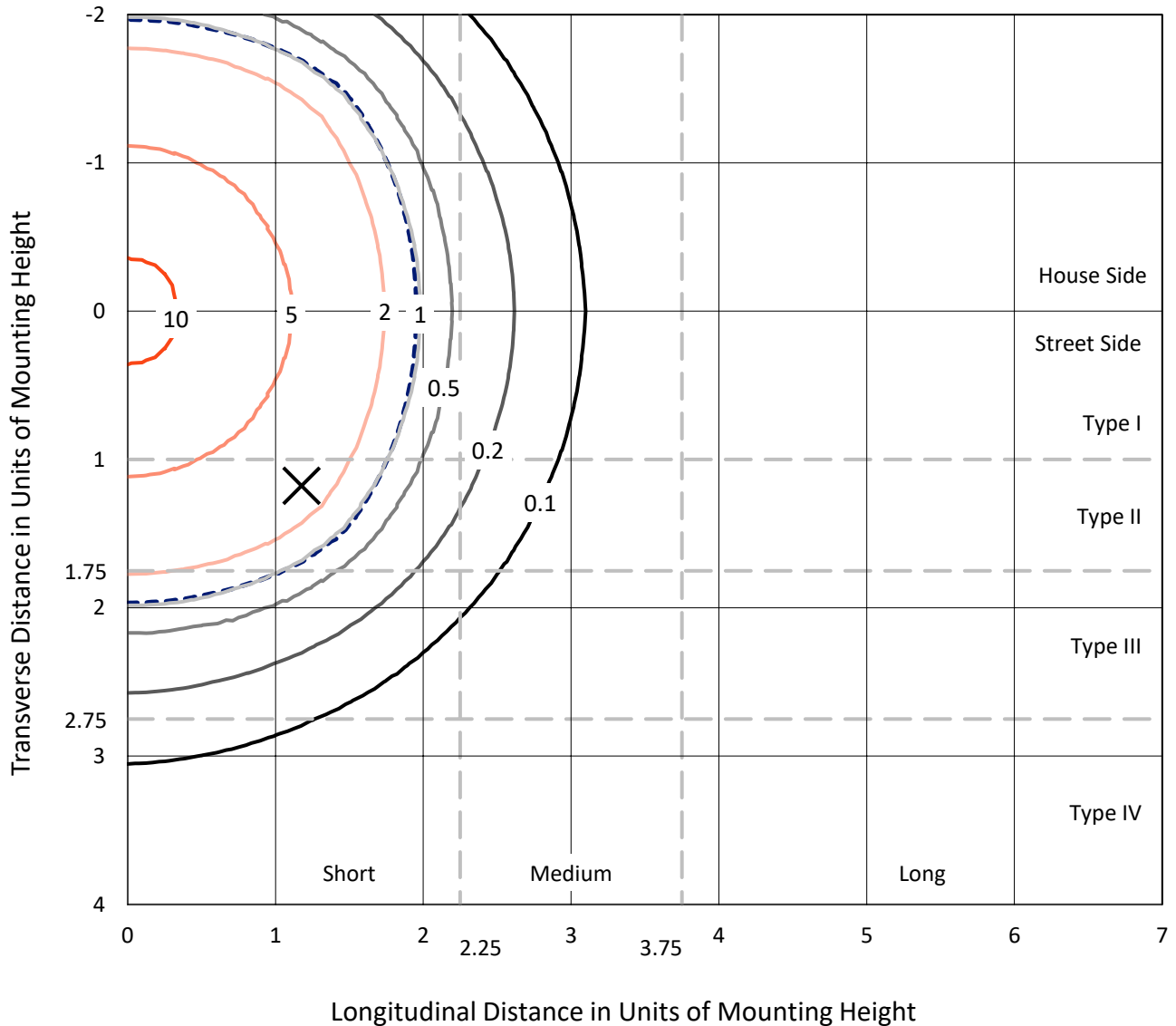
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

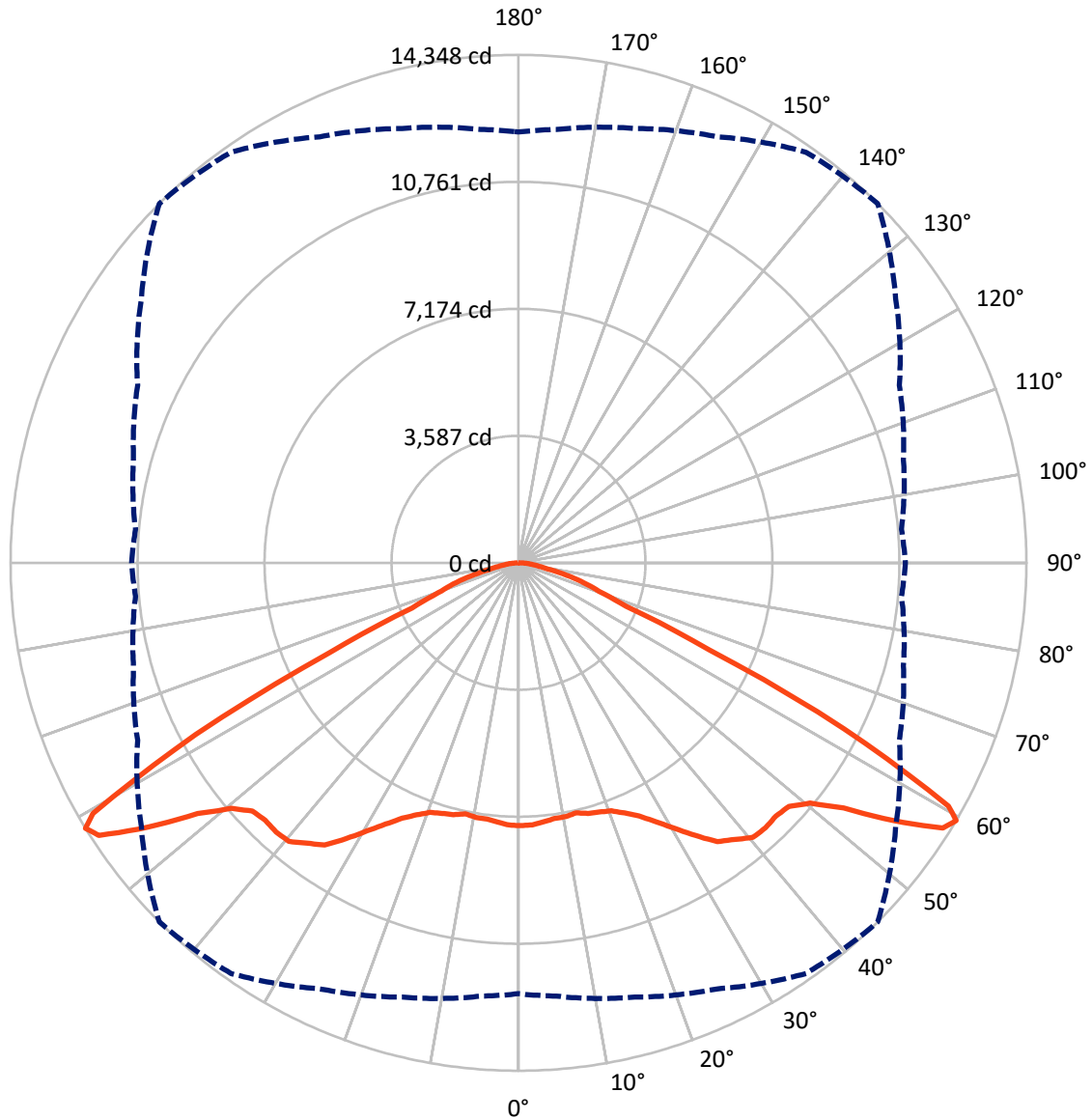
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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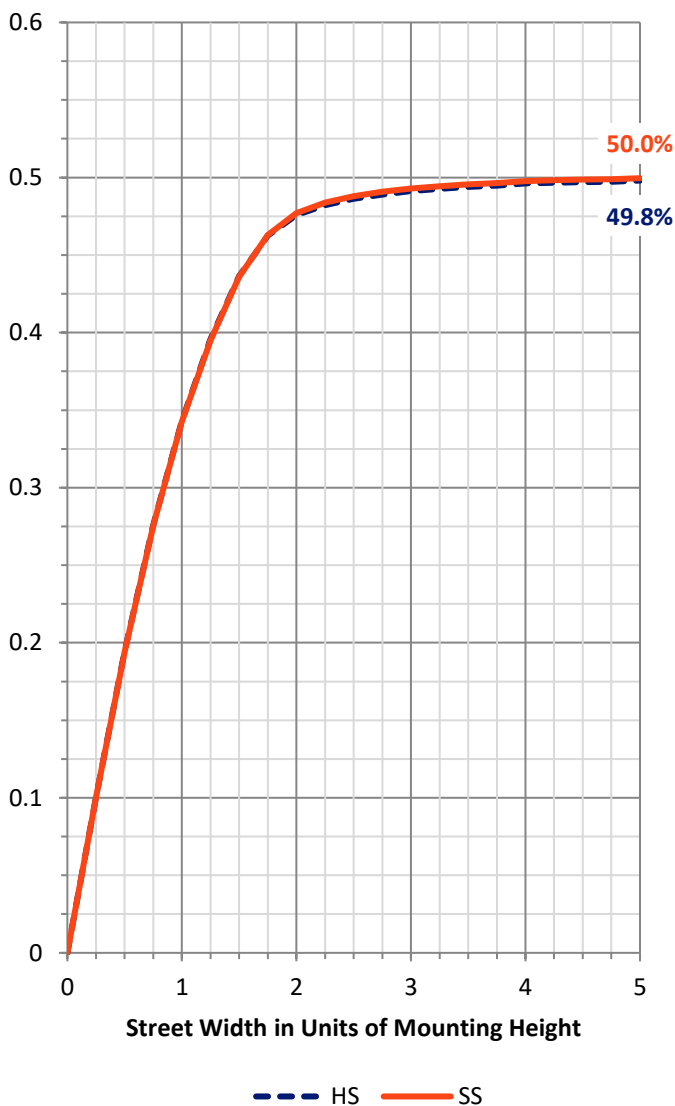
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19221.9	0.0	19221.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19221.9	0.0	19221.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	38443.8	0.0	38443.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.0	1.8
10°-20°	2081.6	5.4
20°-30°	3634.8	9.5
30°-40°	5805.2	15.1
40°-50°	7907.9	20.6
50°-60°	10693.6	27.8
60°-70°	5864.4	15.3
70°-80°	1500.3	3.9
80°-90°	255.9	0.7
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°	38443.8	100.0
0°-180°	38443.8	100.0

Coefficient of Utilization

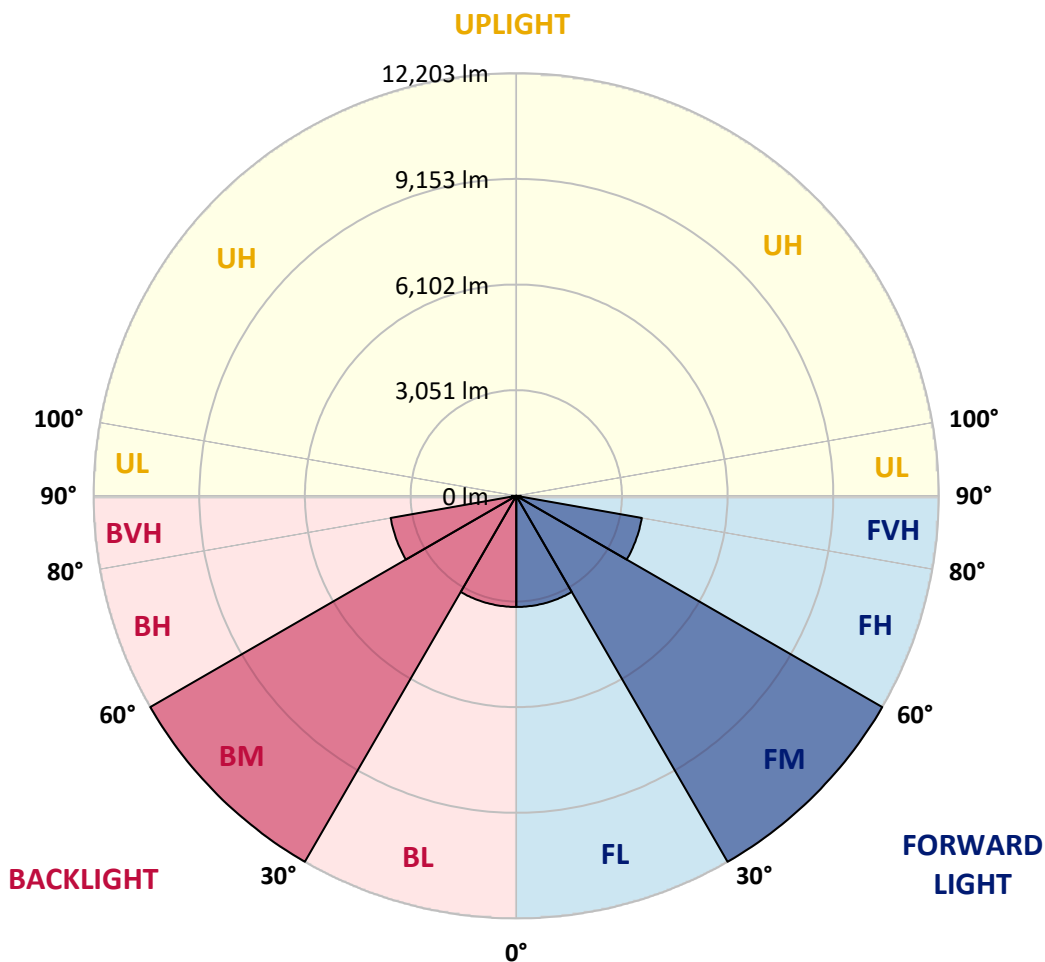


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3208.2	8.3			
FM (30°-60°)	12203.4	31.7			
FH (60°-80°)	3682.4	9.6			G2/5000
FVH (80°-90°)	127.9	0.3			G2/225
BL (0°-30°)	3208.2	8.3	B4/5000		
BM (30°-60°)	12203.4	31.7	B5		
BH (60°-80°)	3682.4	9.6	B4/5000		G2/5000
BVH (80°-90°)	127.9	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-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7425.5	7425.5	7425.5	7425.5	7425.5	7425.5	7425.5	7425.5	7425.5	7425.5	7425.5
2.5°	7381.1	7435.4	7395.9	7430.4	7425.5	7410.7	7386.1	7371.3	7351.6	7381.1	7331.9
5°	7351.6	7395.9	7440.2	7381.1	7381.1	7351.6	7336.8	7307.3	7307.3	7302.3	7297.4
7.5°	7400.9	7356.5	7336.8	7346.6	7356.5	7292.5	7336.8	7277.7	7228.4	7262.9	7302.3
10°	7356.5	7376.2	7302.3	7336.8	7282.6	7292.5	7262.9	7302.3	7248.2	7248.2	7248.2
12.5°	7400.9	7346.6	7371.3	7346.6	7331.9	7248.2	7287.5	7243.2	7238.2	7287.5	7243.2
15°	7489.5	7400.9	7381.1	7331.9	7346.6	7346.6	7307.3	7312.2	7258.0	7287.5	7297.4
17.5°	7460.0	7410.7	7395.9	7336.8	7386.1	7400.9	7327.0	7277.7	7312.2	7307.3	7302.3
20°	7484.6	7504.3	7489.5	7499.4	7519.1	7479.7	7410.7	7341.8	7297.4	7361.4	7356.5
22.5°	7642.3	7622.6	7612.7	7602.9	7637.4	7676.8	7583.2	7474.8	7474.8	7519.1	7538.8
25°	7770.4	7765.5	7760.6	7804.9	7923.1	7923.1	7804.9	7667.0	7632.4	7662.0	7637.4
27.5°	7957.6	8011.9	7992.1	8071.0	8243.5	8282.8	8125.2	7962.6	7869.0	7834.5	7878.8
30°	8386.4	8322.3	8337.1	8420.8	8573.6	8701.7	8460.2	8287.8	8159.6	8154.8	8174.4
32.5°	8672.1	8721.4	8765.7	8844.5	9086.0	9184.6	8893.8	8613.0	8534.1	8489.8	8504.6
35°	9243.7	9199.4	9189.5	9268.3	9509.8	9672.3	9307.8	9061.4	8957.9	9056.5	9056.5
37.5°	9785.7	9662.5	9568.9	9672.3	9894.1	9913.8	9603.4	9470.3	9416.2	9529.5	9524.6
40°	10042.0	10032.0	9815.2	9874.3	10170.0	10199.6	9908.9	9751.2	9741.4	9889.2	10037.0
42.5°	10308.0	10214.4	9997.6	10037.0	10219.3	10229.2	9953.2	9908.9	10017.3	10160.2	10170.0
45°	10352.4	10273.5	10135.6	10037.0	10170.0	10199.6	10037.0	10066.5	10076.4	10248.8	10248.8
47.5°	10441.0	10431.2	10352.4	10278.4	10303.1	10278.4	10174.9	10219.3	10367.1	10450.9	10411.5
50°	10687.4	10583.9	10662.8	10598.7	10603.7	10672.6	10579.0	10623.3	10593.7	10519.9	10470.6
52.5°	11229.4	11180.2	11249.1	11293.5	11342.7	11500.4	11392.0	11155.5	10933.8	10736.7	10731.7
55°	12022.7	12057.2	12190.2	12416.9	12609.0	12860.3	12338.1	11771.4	11416.7	11106.2	11125.9
57.5°	12771.7	12747.0	12929.4	13446.7	14008.5	14136.5	13111.7	12303.6	11727.1	11529.9	11446.2
59°	12170.5	12288.8	12702.7	13279.2	14161.2	14348.4	13008.2	11870.0	11259.0	10859.8	10928.9
60°	11224.5	11268.8	11638.3	12441.5	13634.0	13954.2	12313.4	11199.8	10386.9	10155.2	10258.7
62.5°	7933.0	7898.5	8164.6	8819.9	9889.2	10322.8	9155.0	8371.6	7859.1	7602.9	7662.0
65°	4217.8	4375.5	4483.9	4892.9	5459.5	5917.7	5434.9	5094.9	4809.1	4597.2	4592.3
67.5°	2848.0	2828.3	2852.9	2946.5	3138.7	3266.9	3256.9	3084.5	3059.9	3020.5	3064.8
70°	2399.6	2389.8	2345.4	2345.4	2384.8	2414.4	2448.9	2468.6	2508.0	2557.3	2552.4
72.5°	1946.3	1921.7	1892.1	1877.3	1926.6	1941.4	1985.7	2005.4	2039.9	2035.0	2079.4
75°	1286.1	1286.1	1320.5	1360.0	1374.7	1404.3	1409.2	1468.4	1468.4	1478.2	1438.8
77.5°	719.4	699.7	724.4	763.7	798.2	852.4	906.6	951.0	975.6	965.7	965.7
80°	418.8	418.8	443.5	487.8	532.2	581.5	620.8	655.3	679.9	670.1	650.4
82.5°	261.1	261.1	285.8	330.1	364.7	394.2	448.4	492.7	522.3	512.4	487.8
85°	133.0	133.0	162.6	192.2	236.5	256.3	251.3	231.6	226.6	202.0	202.0
87.5°	34.5	34.5	49.3	54.2	44.3	49.3	49.3	49.3	49.3	49.3	54.2
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)