

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: P650836

Luminaire Tested: **GALN-SA4C-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24479.8 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

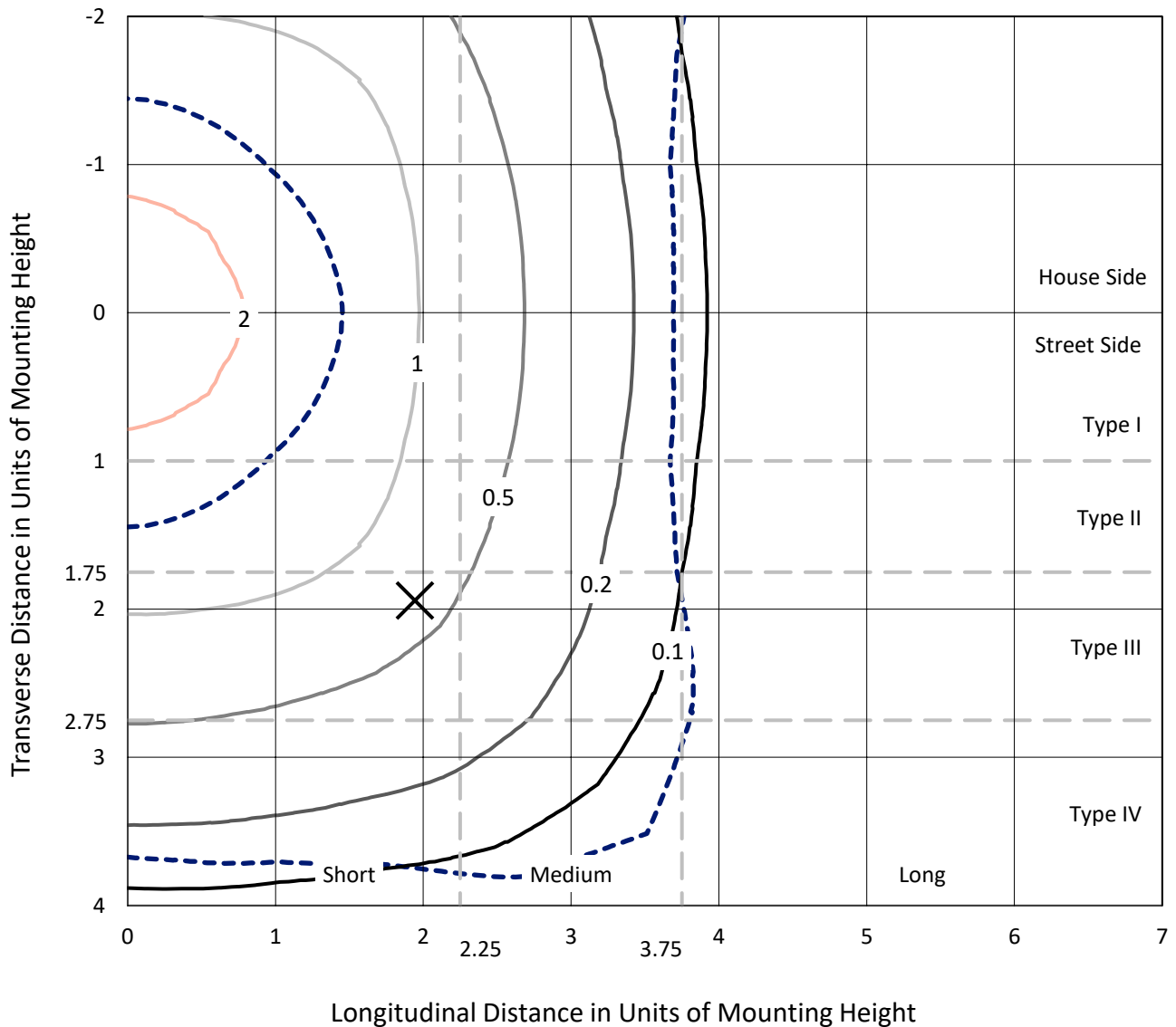
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

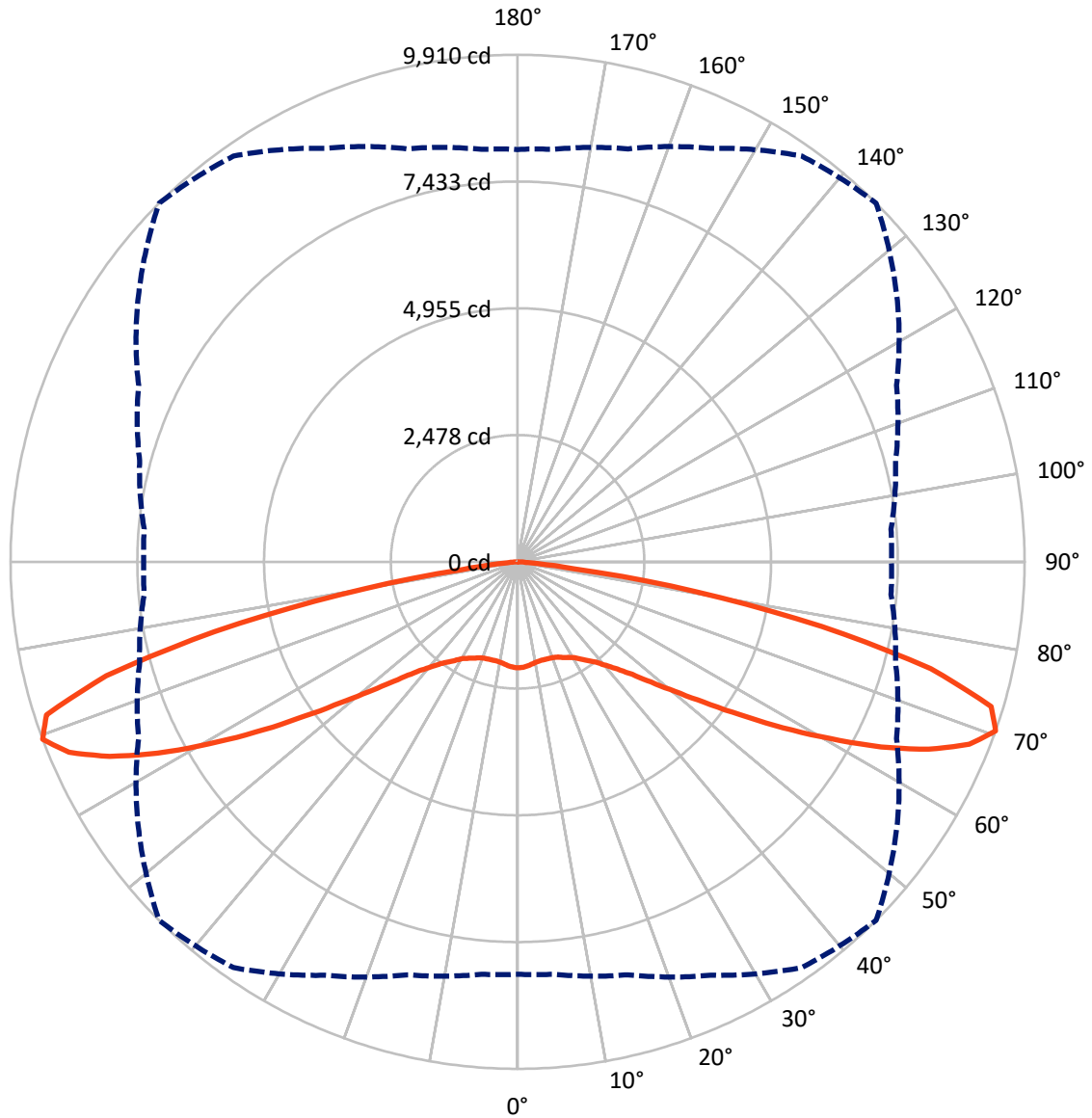
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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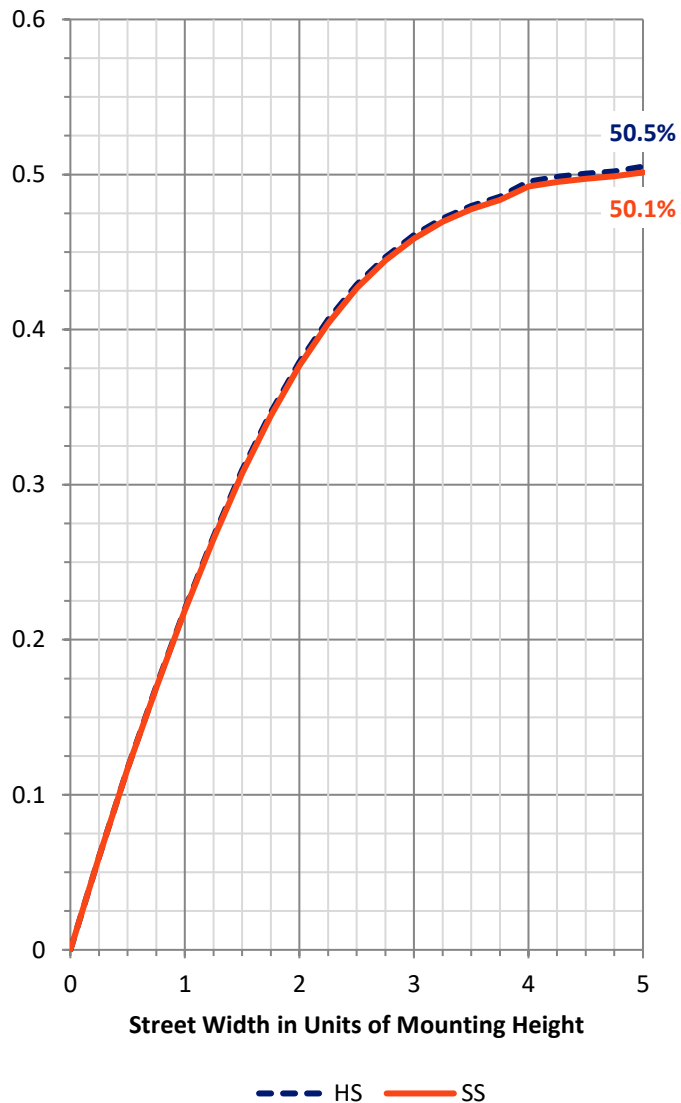
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12239.9	0.0	12239.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12239.9	0.0	12239.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	24479.8	0.0	24479.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.8	0.8
10°-20°	567.4	2.3
20°-30°	966.7	3.9
30°-40°	1498.4	6.1
40°-50°	2522.1	10.3
50°-60°	4588.8	18.7
60°-70°	7768.8	31.7
70°-80°	6013.3	24.6
80°-90°	360.3	1.5
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°	24479.8	100.0
0°-180°	24479.8	100.0

Coefficient of Utilization

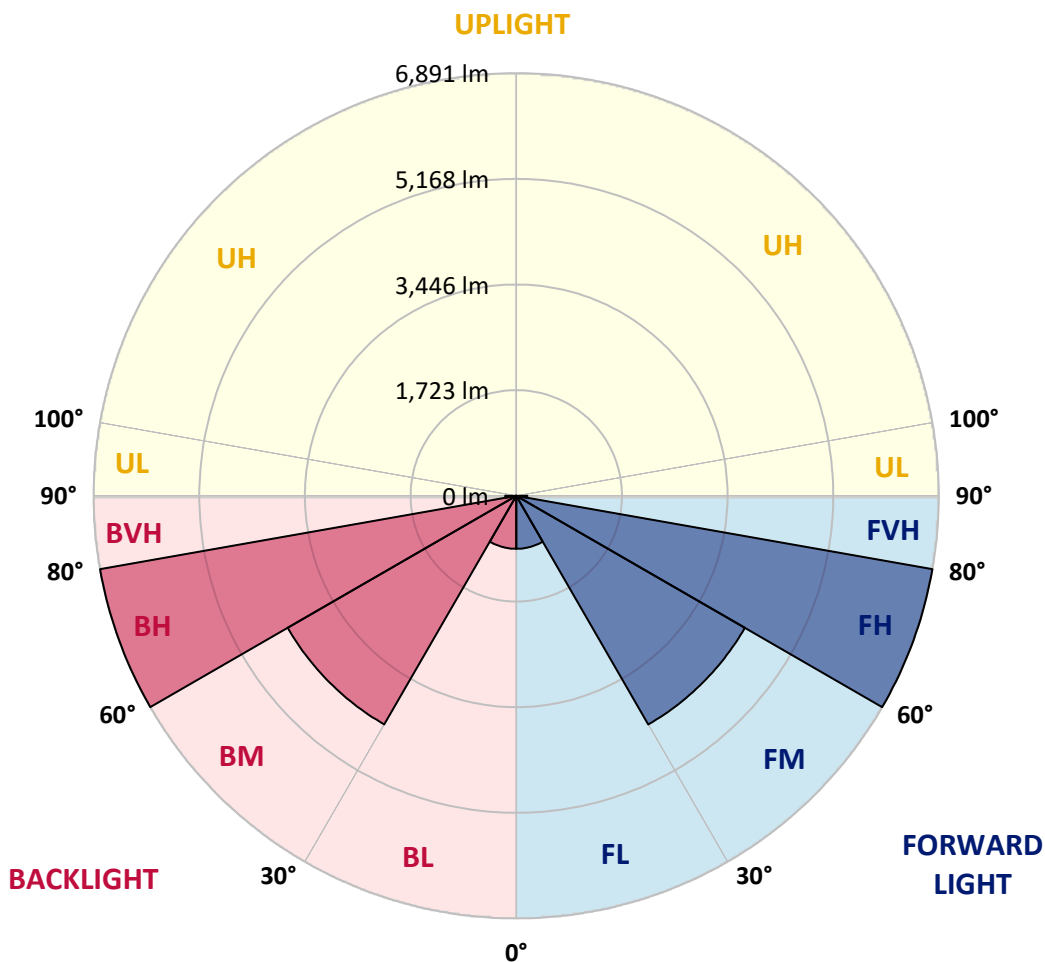


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.0	3.5			
FM (30°-60°)	4304.7	17.6			
FH (60°-80°)	6891.1	28.1			G3/7500
FVH (80°-90°)	180.2	0.7			G2/225
BL (0°-30°)	864.0	3.5	B2/1000		
BM (30°-60°)	4304.7	17.6	B3/5000		
BH (60°-80°)	6891.1	28.1	B5		G3/7500
BVH (80°-90°)	180.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2072.5	2072.5	2072.5	2072.5	2072.5	2072.5	2072.5	2072.5	2072.5	2072.5	2072.5
2.5°	2067.3	2068.6	2068.6	2066.1	2064.7	2064.7	2063.5	2063.5	2067.3	2068.6	2070.0
5°	2049.3	2049.3	2049.3	2047.9	2045.4	2045.4	2042.8	2042.8	2044.1	2047.9	2045.4
7.5°	2024.7	2027.2	2027.2	2022.1	2018.2	2018.2	2016.9	2018.2	2019.5	2023.4	2022.1
10°	2016.9	2018.2	2011.8	2002.7	1996.2	1992.3	1993.7	1996.2	2002.7	2005.3	2006.5
12.5°	2022.1	2022.1	2010.5	1997.5	1985.9	1980.7	1979.5	1988.5	2000.2	2007.9	2010.5
15°	2028.6	2026.0	2011.8	1994.9	1983.3	1982.0	1980.7	1987.2	2004.0	2019.5	2020.8
17.5°	2032.4	2031.2	2013.0	1992.3	1985.9	1985.9	1984.6	1989.8	2007.9	2027.2	2028.6
20°	2045.4	2041.5	2020.8	1998.8	1993.7	1996.2	1992.3	1998.8	2018.2	2041.5	2046.7
22.5°	2071.2	2067.3	2046.7	2024.7	2022.1	2022.1	2020.8	2027.2	2047.9	2072.5	2076.4
25°	2102.2	2098.4	2079.0	2063.5	2066.1	2071.2	2068.6	2070.0	2086.8	2107.5	2113.9
27.5°	2143.6	2137.1	2120.3	2107.5	2115.2	2115.2	2115.2	2113.9	2124.2	2143.6	2150.1
30°	2194.1	2191.5	2173.4	2172.1	2178.5	2172.1	2172.1	2173.4	2174.7	2192.7	2199.2
32.5°	2260.0	2254.8	2245.8	2243.2	2261.3	2266.4	2248.3	2231.5	2240.6	2258.7	2262.5
35°	2368.6	2360.9	2347.9	2333.7	2347.9	2372.5	2333.7	2320.7	2344.0	2368.6	2371.2
37.5°	2516.0	2512.1	2491.4	2465.6	2464.3	2490.1	2450.1	2448.7	2492.7	2522.4	2526.4
40°	2700.9	2704.7	2678.9	2654.3	2641.4	2662.1	2631.1	2642.7	2685.3	2719.0	2716.3
42.5°	2960.7	2946.5	2906.4	2883.2	2868.9	2861.2	2853.4	2871.5	2919.4	2955.5	2984.0
45°	3264.6	3259.4	3209.0	3180.5	3149.5	3137.9	3135.2	3167.6	3225.8	3269.7	3273.6
47.5°	3608.5	3596.9	3564.5	3534.8	3523.1	3508.9	3496.0	3520.6	3578.7	3609.7	3618.8
50°	3962.7	3965.3	3965.3	3960.2	3971.8	3974.4	3939.5	3948.5	3980.9	3978.3	3975.7
52.5°	4367.4	4381.6	4448.9	4455.4	4511.0	4548.4	4485.1	4447.5	4435.9	4366.1	4371.3
55°	4843.2	4856.1	4956.9	5057.9	5207.8	5271.1	5138.0	5021.6	4938.9	4832.9	4838.0
57.5°	5436.6	5443.1	5538.7	5732.7	5970.6	6119.3	5885.3	5655.1	5487.1	5386.2	5346.2
60°	6075.3	6081.8	6221.5	6458.0	6827.8	7008.8	6719.2	6343.0	6130.9	5977.1	5987.4
62.5°	6842.0	6867.9	6993.3	7319.1	7767.7	7970.7	7586.7	7083.8	6796.8	6605.4	6613.2
65°	7663.0	7707.0	7844.0	8202.2	8615.9	8834.4	8363.7	7783.3	7426.5	7192.4	7217.0
67.5°	8195.7	8234.5	8432.3	8827.9	9343.8	9524.7	8917.1	8241.0	7794.9	7515.6	7463.9
70°	8059.9	8092.3	8356.0	8917.1	9681.3	9910.1	9049.0	8173.7	7648.8	7326.9	7306.2
72.5°	7114.9	7047.6	7432.8	8238.4	9295.9	9679.9	8634.0	7465.2	6804.5	6473.5	6434.7
75°	4715.2	4861.3	5430.2	6379.2	7864.7	8340.5	7369.5	5993.9	5162.6	4887.1	4844.5
77.5°	1576.0	1688.6	2194.1	3616.2	5361.6	6076.6	5369.4	3920.1	2773.3	2234.1	2244.5
80°	417.6	412.4	534.0	994.2	2316.9	3519.2	2697.0	1327.8	726.6	526.2	499.0
82.5°	150.0	168.1	215.9	275.4	614.1	1093.8	771.9	372.4	272.8	201.7	195.2
85°	65.9	64.7	93.1	109.9	153.8	204.3	181.0	157.8	138.3	91.8	85.4
87.5°	14.2	14.2	22.0	16.8	27.2	27.2	33.6	40.1	41.4	27.2	22.0
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)