

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: P650834

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12200.4 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

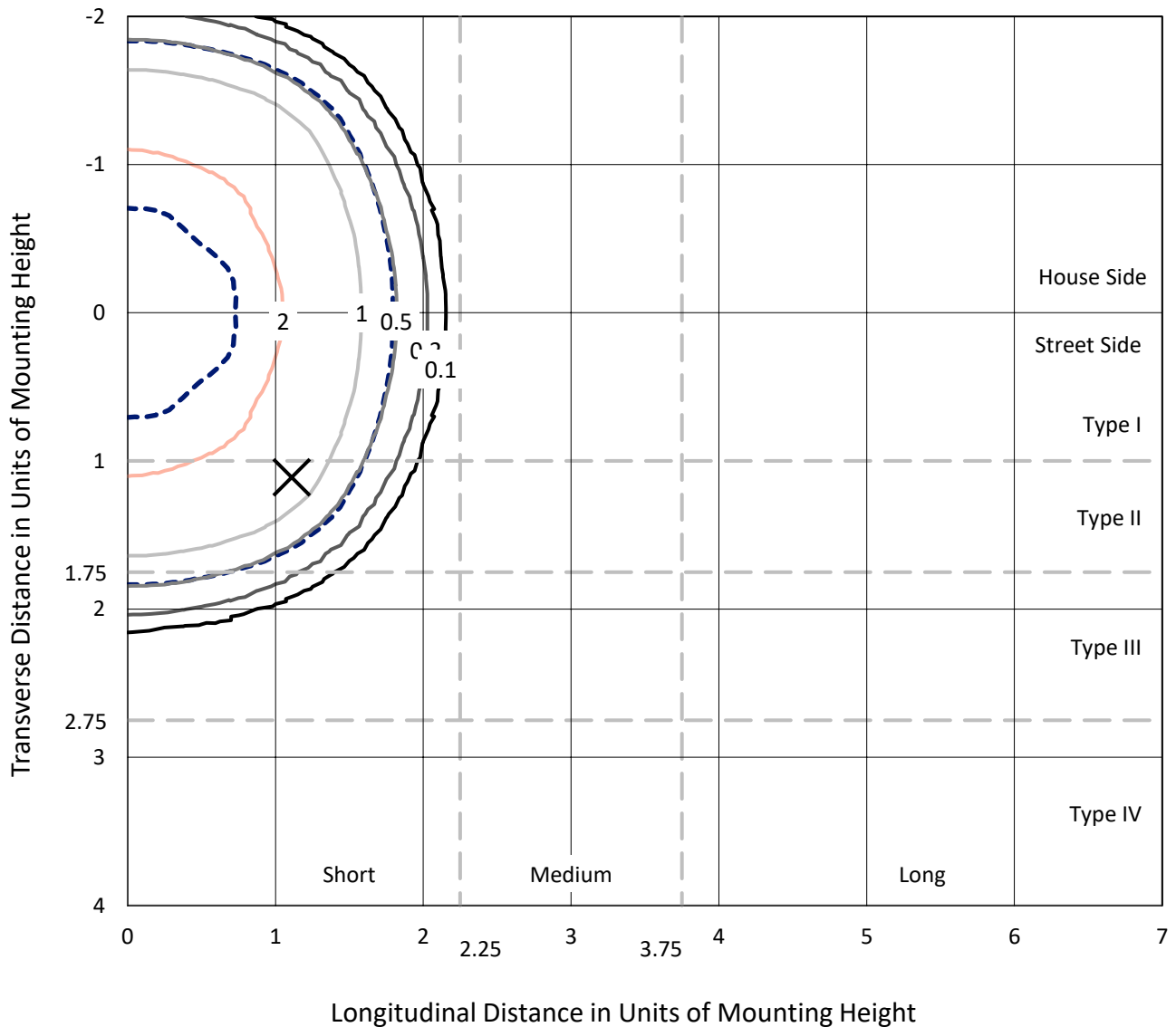
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

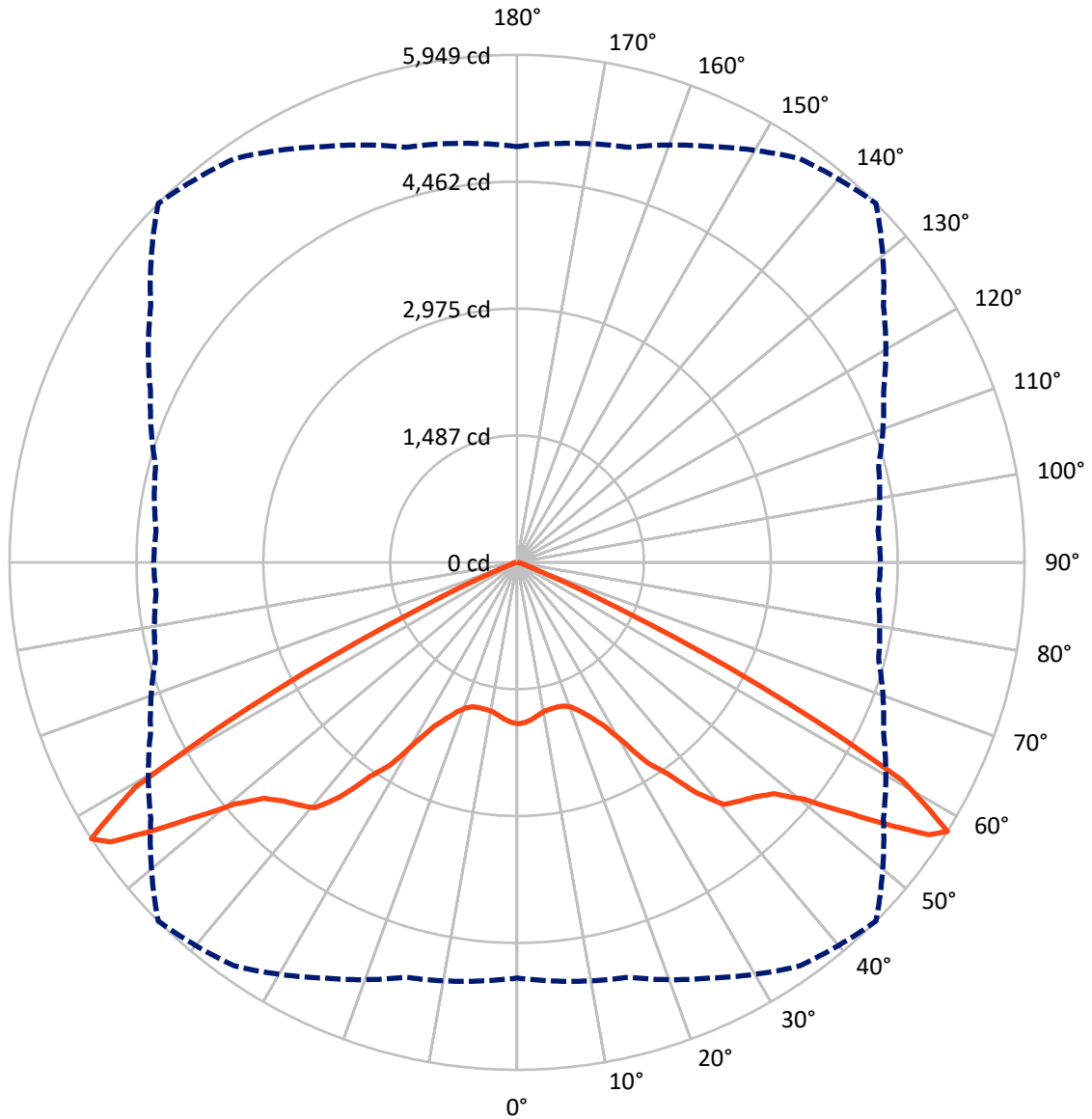
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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CATALOG NUMBER: GALN-SA4C-840-U-5WQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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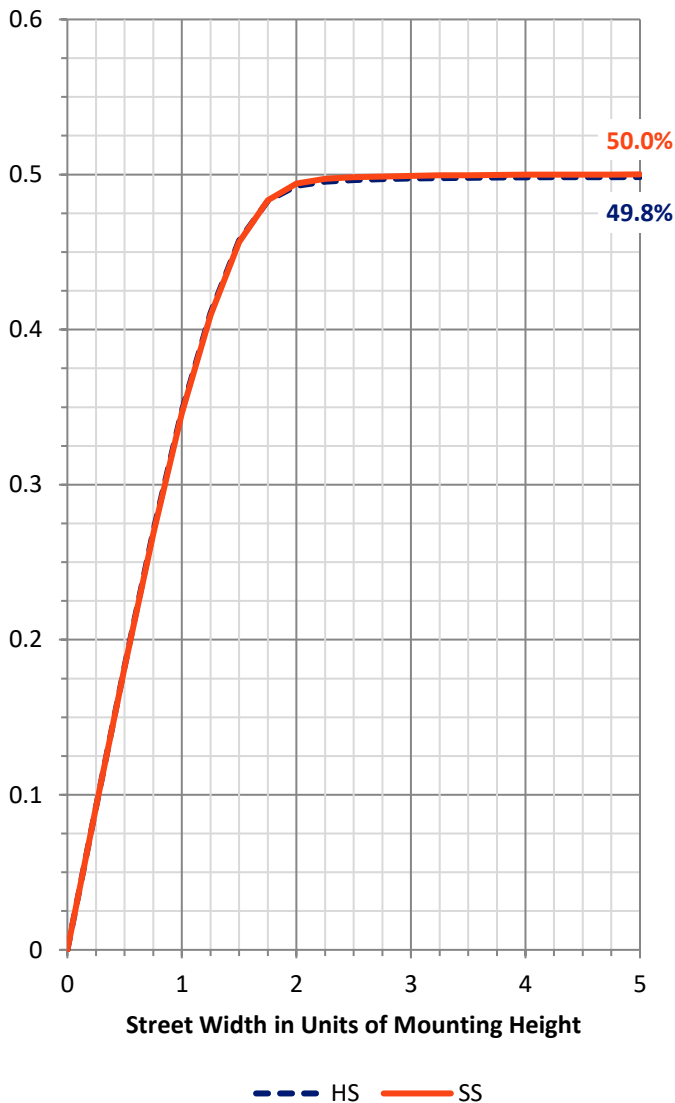
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6100.2	0.0	6100.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6100.2	0.0	6100.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	12200.4	0.0	12200.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	1.4
10°-20°	502.7	4.1
20°-30°	927.8	7.6
30°-40°	1824.7	15.0
40°-50°	2972.0	24.4
50°-60°	4238.4	34.7
60°-70°	1467.4	12.0
70°-80°	78.7	0.6
80°-90°	14.8	0.1
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°	12200.4	100.0
0°-180°	12200.4	100.0



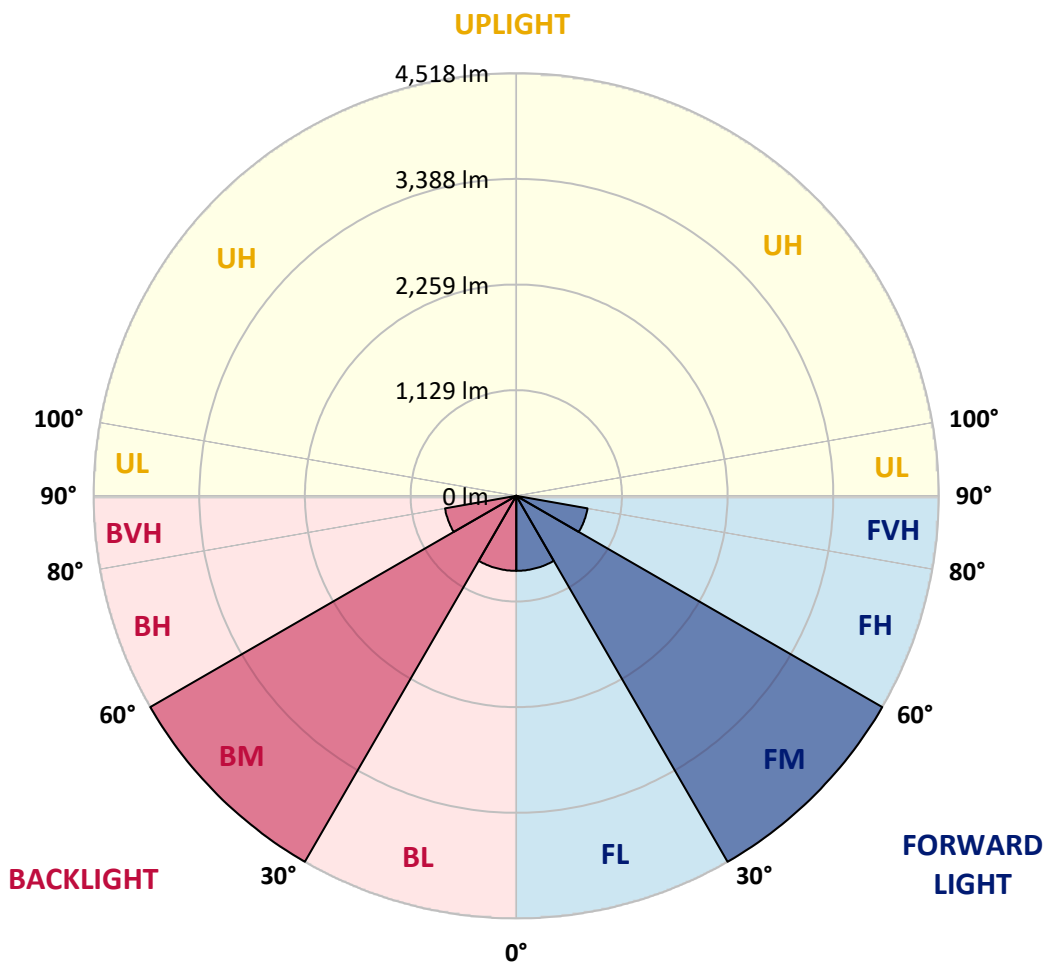
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	802.2	6.6			
FM (30°-60°)	4517.5	37.0			
FH (60°-80°)	773.1	6.3			G1/1800
FVH (80°-90°)	7.4	0.1			G0/10
BL (0°-30°)	802.2	6.6	B2/1000		
BM (30°-60°)	4517.5	37.0	B3/5000		
BH (60°-80°)	773.1	6.3	B2/1000		G1/1800
BVH (80°-90°)	7.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4	1892.4
2.5°	1887.3	1897.5	1884.8	1879.7	1877.1	1877.1	1869.5	1869.5	1866.9	1869.5	1859.4
5°	1856.8	1866.9	1866.9	1864.4	1849.2	1846.6	1839.0	1833.9	1836.4	1826.3	1833.9
7.5°	1826.3	1833.9	1823.7	1821.2	1816.1	1806.0	1803.4	1780.5	1783.0	1783.0	1788.1
10°	1821.2	1818.7	1803.4	1790.7	1775.4	1772.8	1765.3	1760.1	1760.1	1757.6	1765.3
12.5°	1821.2	1808.5	1806.0	1778.0	1752.5	1762.7	1742.3	1729.6	1747.4	1752.5	1762.7
15°	1818.7	1831.4	1788.1	1775.4	1757.6	1760.1	1742.3	1729.6	1739.8	1744.9	1752.5
17.5°	1833.9	1826.3	1813.5	1788.1	1780.5	1770.3	1747.4	1737.3	1737.3	1750.0	1752.5
20°	1874.6	1854.2	1828.8	1816.1	1823.7	1811.0	1783.0	1744.9	1755.1	1765.3	1772.8
22.5°	1912.8	1897.5	1879.7	1872.1	1915.3	1894.9	1846.6	1803.4	1788.1	1806.0	1818.7
25°	1986.5	1986.5	1953.5	1963.7	2011.9	2014.5	1958.5	1882.2	1872.1	1879.7	1884.8
27.5°	2136.6	2144.2	2116.2	2126.4	2146.7	2164.6	2116.2	2052.6	2029.8	2027.2	2034.9
30°	2299.4	2314.6	2312.1	2355.3	2413.8	2424.0	2352.8	2248.5	2179.8	2167.1	2177.3
32.5°	2513.1	2520.6	2515.6	2566.5	2724.2	2797.9	2612.2	2464.7	2373.1	2396.0	2373.1
35°	2914.9	2907.3	2851.3	2861.5	2991.2	3044.7	2866.6	2772.4	2729.2	2775.0	2764.9
37.5°	3260.8	3232.9	3187.1	3253.2	3388.1	3436.3	3250.6	3085.4	3006.5	3082.8	3115.8
40°	3553.4	3482.2	3418.6	3484.7	3665.2	3731.4	3459.2	3324.5	3293.9	3349.9	3421.1
42.5°	3800.1	3754.3	3670.4	3675.4	3795.0	3825.5	3606.8	3527.9	3497.4	3586.4	3622.0
45°	3975.6	3932.3	3853.5	3848.4	3940.0	3919.6	3723.8	3670.4	3688.1	3746.7	3764.5
47.5°	4064.6	4087.5	4041.7	4054.5	4102.7	4054.5	3899.3	3899.3	3858.6	3894.2	3876.4
50°	4321.5	4250.2	4308.8	4308.8	4359.7	4364.7	4209.6	4153.6	4044.3	3983.2	3983.2
52.5°	4621.6	4626.8	4649.6	4733.6	4820.0	4893.8	4672.5	4433.4	4250.2	4171.4	4161.3
55°	4868.4	4919.3	5010.8	5168.5	5417.8	5519.5	5138.0	4710.7	4486.8	4364.7	4339.3
56°	5003.2	4954.8	5112.5	5328.7	5654.3	5786.6	5214.3	4766.6	4519.9	4382.5	4380.0
57.5°	4873.4	4926.9	5036.2	5377.1	5776.4	5949.4	5242.3	4741.2	4387.7	4247.7	4260.4
60°	3848.4	3899.3	4046.8	4428.4	5054.1	5188.9	4435.9	3909.5	3594.0	3393.1	3395.6
62.5°	2177.3	2215.4	2329.9	2683.5	3072.6	3202.4	2764.9	2413.8	2195.1	2083.2	2047.6
65°	801.2	786.0	803.7	984.4	1223.5	1332.8	1149.6	971.6	857.1	816.4	801.2
67.5°	300.2	277.3	259.4	277.3	348.4	368.8	338.3	282.3	264.5	272.1	277.3
70°	185.7	175.5	139.9	132.3	129.7	127.2	134.8	142.5	162.8	190.7	195.9
72.5°	129.7	122.1	99.2	94.1	89.1	86.5	99.2	109.4	127.2	147.5	150.0
75°	50.9	53.4	50.9	55.9	58.5	61.1	71.2	78.9	86.5	86.5	83.9
77.5°	10.2	10.2	15.2	20.4	25.4	33.1	48.4	55.9	58.5	55.9	48.4
80°	0.0	0.0	5.0	10.2	20.4	28.0	43.2	48.4	53.4	48.4	38.2
82.5°	0.0	0.0	5.0	12.7	20.4	25.4	40.7	50.9	58.5	53.4	40.7
85°	0.0	0.0	5.0	10.2	15.2	17.8	17.8	12.7	12.7	7.7	5.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)