

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: P650773

Luminaire Tested: **GALN-SA3C-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650773
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10593.2 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

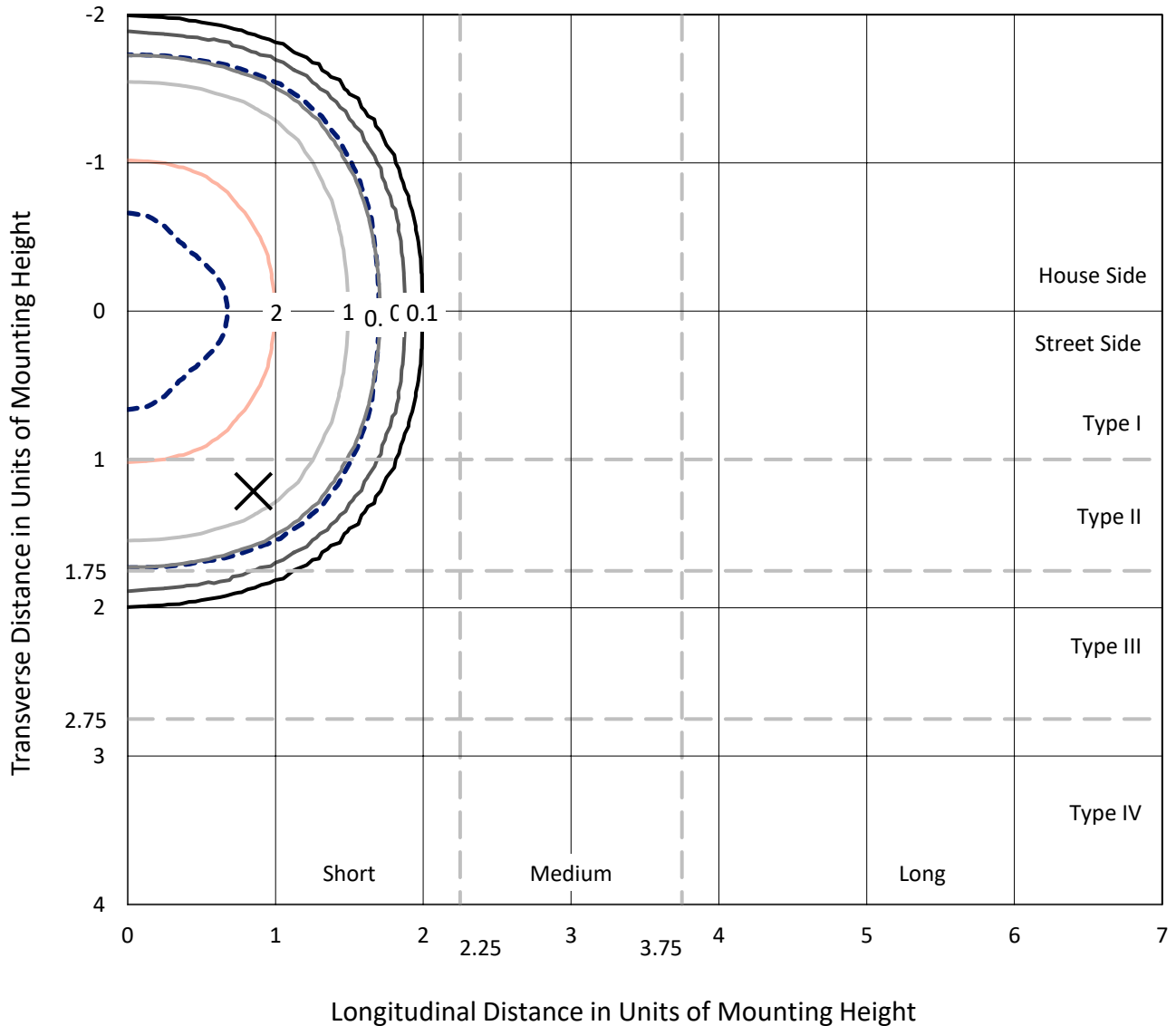
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

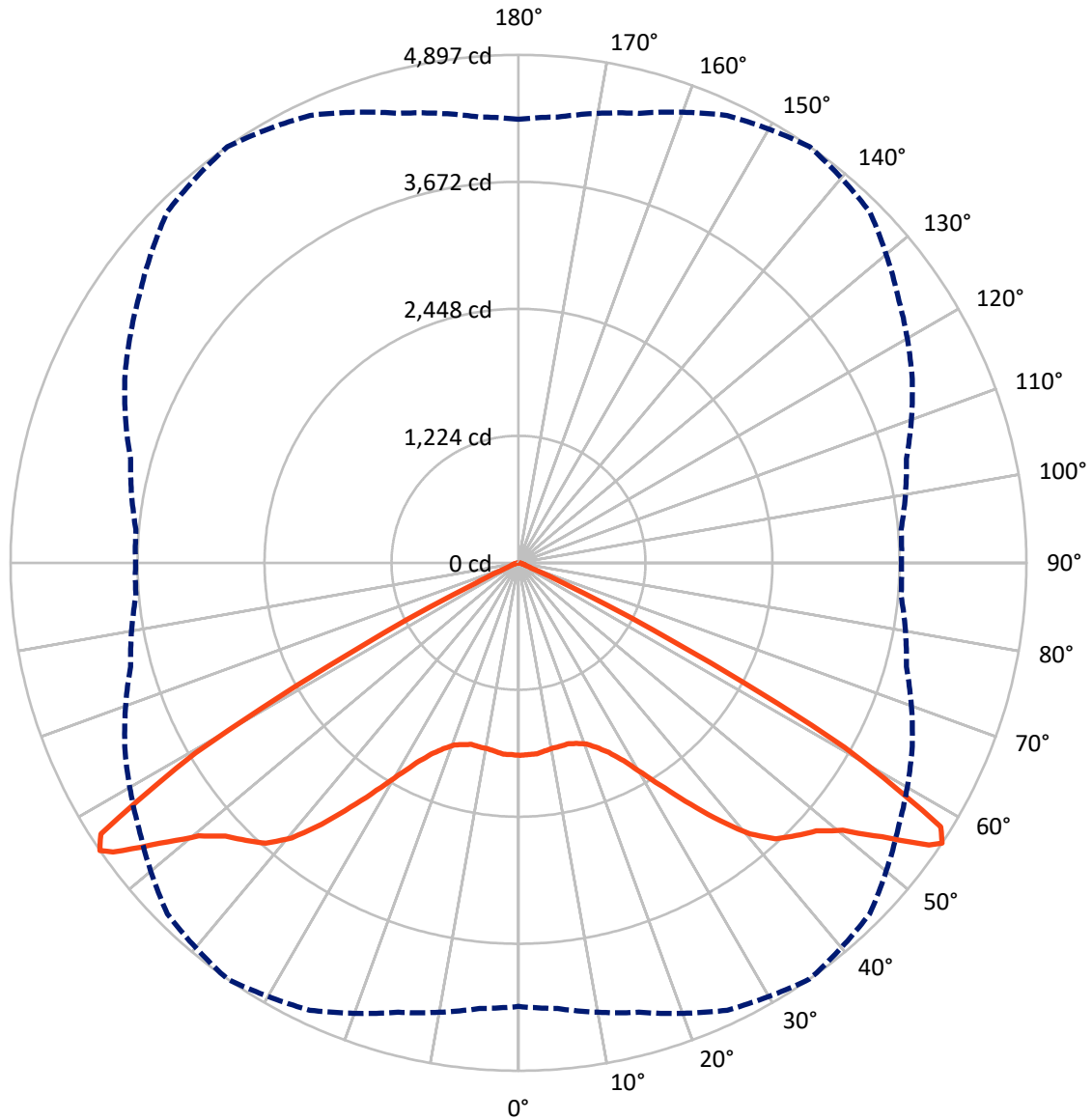
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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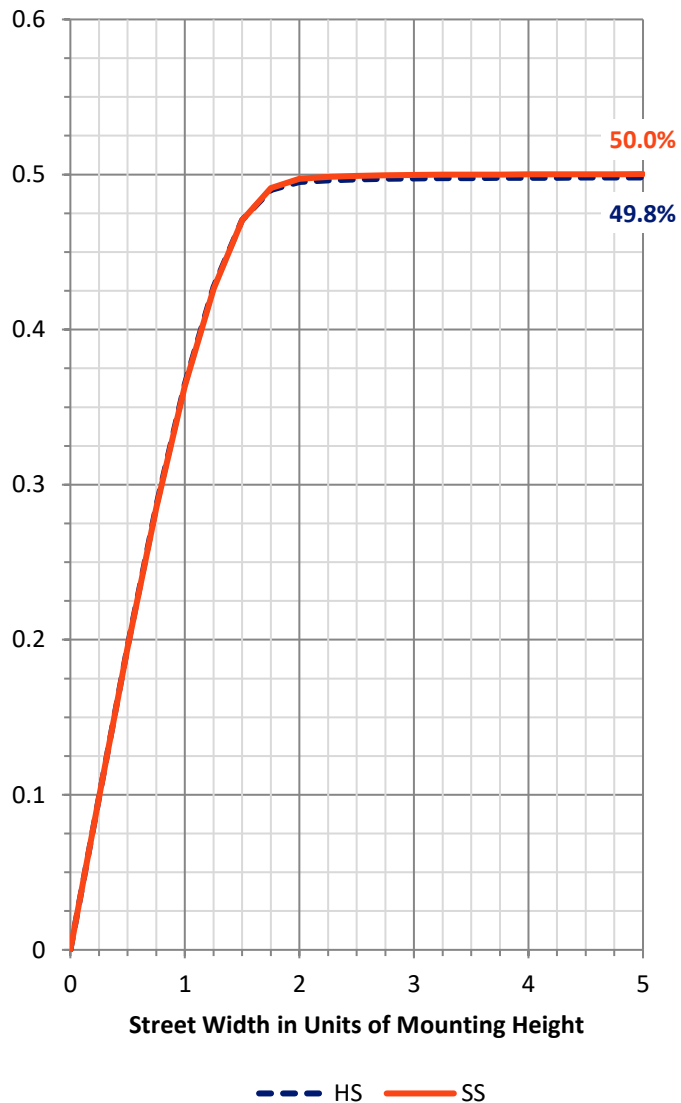
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5296.6	0.0	5296.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5296.6	0.0	5296.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	10593.2	0.0	10593.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	1.6
10°-20°	509.3	4.8
20°-30°	922.3	8.7
30°-40°	1710.3	16.1
40°-50°	2807.3	26.5
50°-60°	3616.6	34.1
60°-70°	797.1	7.5
70°-80°	46.2	0.4
80°-90°	9.7	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°	10593.2	100.0
0°-180°	10593.2	100.0

Coefficient of Utilization



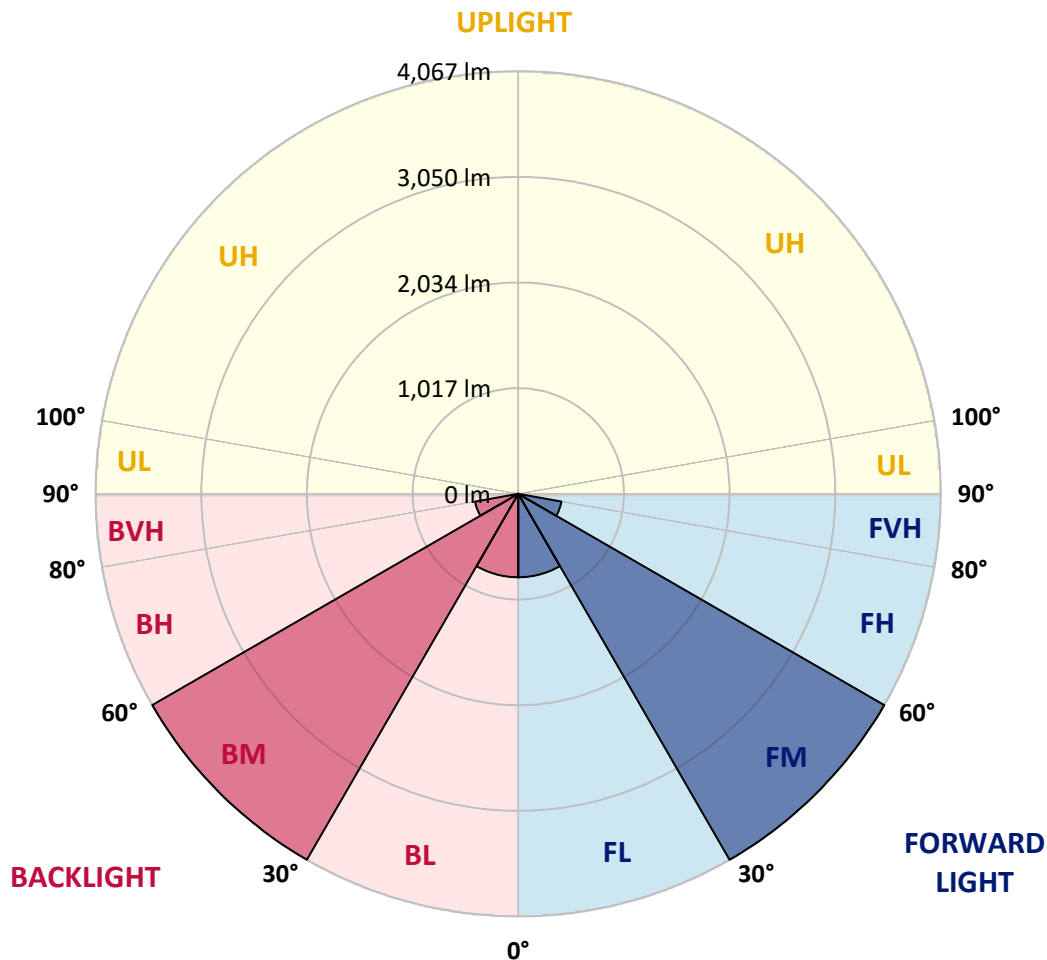
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.0	7.6			
FM (30°-60°)	4067.1	38.4			
FH (60°-80°)	421.6	4.0			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	803.0	7.6	B2/1000		
BM (30°-60°)	4067.1	38.4	B3/5000		
BH (60°-80°)	421.6	4.0	B1/500		G0/660
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2
2.5°	1860.0	1860.0	1861.9	1863.8	1850.4	1844.6	1846.6	1842.7	1840.8	1846.6	1846.6
5°	1854.2	1854.2	1848.5	1850.4	1850.4	1833.1	1833.1	1837.0	1837.0	1825.5	1821.6
7.5°	1838.8	1835.1	1827.4	1837.0	1831.2	1831.2	1817.7	1808.2	1804.4	1812.0	1804.4
10°	1806.2	1808.2	1815.9	1819.7	1815.9	1827.4	1804.4	1790.9	1777.5	1771.7	1771.7
12.5°	1790.9	1802.4	1790.9	1800.5	1814.0	1804.4	1790.9	1781.3	1762.1	1754.4	1754.4
15°	1789.0	1796.6	1800.5	1814.0	1808.2	1812.0	1785.1	1773.6	1744.8	1731.4	1725.6
17.5°	1787.0	1796.6	1802.4	1827.4	1831.2	1833.1	1812.0	1777.5	1752.5	1739.1	1725.6
20°	1808.2	1812.0	1823.5	1848.5	1863.8	1890.7	1852.3	1815.9	1762.1	1746.8	1741.0
22.5°	1835.1	1854.2	1865.8	1892.7	1933.0	1956.0	1906.0	1860.0	1804.4	1785.1	1762.1
25°	1921.4	1917.6	1936.8	1992.4	2025.0	2042.4	2002.1	1934.9	1861.9	1838.8	1842.7
27.5°	2028.9	2032.8	2050.0	2111.5	2159.4	2186.3	2138.3	2050.0	1979.0	1940.6	1936.8
30°	2169.0	2165.2	2184.4	2266.9	2353.3	2393.7	2309.1	2205.5	2136.4	2086.5	2098.0
32.5°	2316.9	2318.8	2372.5	2447.4	2587.5	2666.2	2529.9	2403.2	2299.5	2265.0	2247.7
35°	2535.7	2545.3	2587.5	2702.6	2858.1	2959.9	2810.1	2658.5	2539.5	2476.2	2483.8
37.5°	2806.3	2796.7	2867.7	2992.5	3155.7	3230.5	3103.9	2931.1	2810.1	2767.9	2794.8
40°	3094.2	3103.9	3140.3	3253.6	3435.9	3485.9	3297.7	3203.6	3098.1	3077.0	3109.6
42.5°	3382.2	3376.4	3403.3	3505.0	3637.5	3602.9	3491.6	3435.9	3361.1	3318.8	3363.0
45°	3593.3	3583.8	3633.6	3702.8	3750.7	3685.4	3635.6	3616.4	3578.0	3531.9	3572.2
47.5°	3798.7	3791.1	3839.0	3858.2	3862.0	3775.7	3785.3	3819.8	3723.9	3627.9	3673.9
50°	3973.4	3959.9	4019.5	4061.7	4052.1	3913.8	3948.4	3913.8	3764.1	3650.9	3633.6
52.5°	4265.1	4270.9	4334.3	4411.0	4388.0	4272.8	4222.9	4065.5	3873.6	3771.8	3712.3
55°	4449.4	4420.6	4530.0	4773.9	4800.7	4681.7	4460.9	4228.6	3940.8	3816.0	3800.6
56°	4276.7	4313.2	4485.9	4758.5	4896.6	4787.2	4466.7	4188.3	3871.6	3702.8	3691.2
57.5°	3837.1	3817.9	4052.1	4424.5	4800.7	4754.6	4309.3	3900.5	3531.9	3341.9	3318.8
60°	2387.9	2443.5	2648.9	3109.6	3612.5	3635.6	3194.0	2842.7	2412.8	2243.9	2284.2
62.5°	934.8	886.8	1015.4	1359.0	1704.5	1781.3	1614.3	1341.7	1101.8	934.8	923.2
65°	216.9	211.2	238.0	328.2	458.8	531.7	504.9	362.8	266.8	253.4	234.2
67.5°	122.9	122.9	117.1	117.1	128.6	136.3	130.5	128.6	134.4	140.1	138.2
70°	86.4	84.4	80.7	82.5	78.7	78.7	84.4	94.0	101.8	101.8	103.7
72.5°	51.8	51.8	51.8	57.6	57.6	57.6	63.3	71.0	72.9	71.0	69.1
75°	23.0	23.0	26.9	32.6	36.5	38.3	44.2	48.0	51.8	48.0	44.2
77.5°	5.7	5.7	9.6	13.5	17.2	21.1	28.8	34.6	36.5	34.6	28.8
80°	1.9	1.9	3.9	9.6	17.2	21.1	28.8	30.7	32.6	28.8	23.0
82.5°	1.9	1.9	3.9	9.6	13.5	17.2	23.0	26.9	28.8	25.0	23.0
85°	0.0	1.9	3.9	7.7	11.5	15.4	15.4	11.5	9.6	5.7	7.7
87.5°	0.0	0.0	1.9	1.9	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)