

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: P651833

Luminaire Tested: **GALN-SA4A-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15697.3 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 121
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

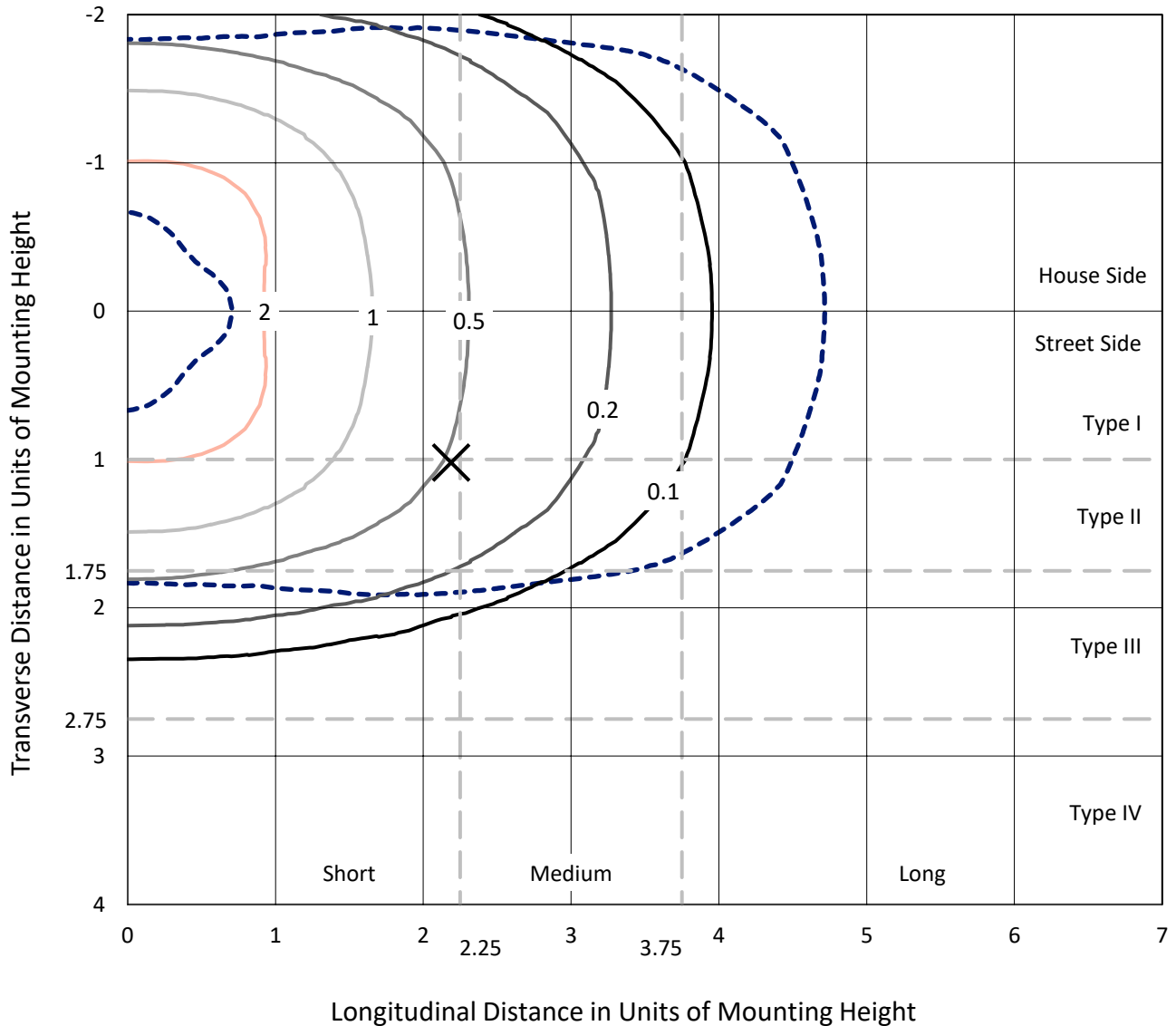




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Iso-Footcandle Lines of Horizontal Illumination

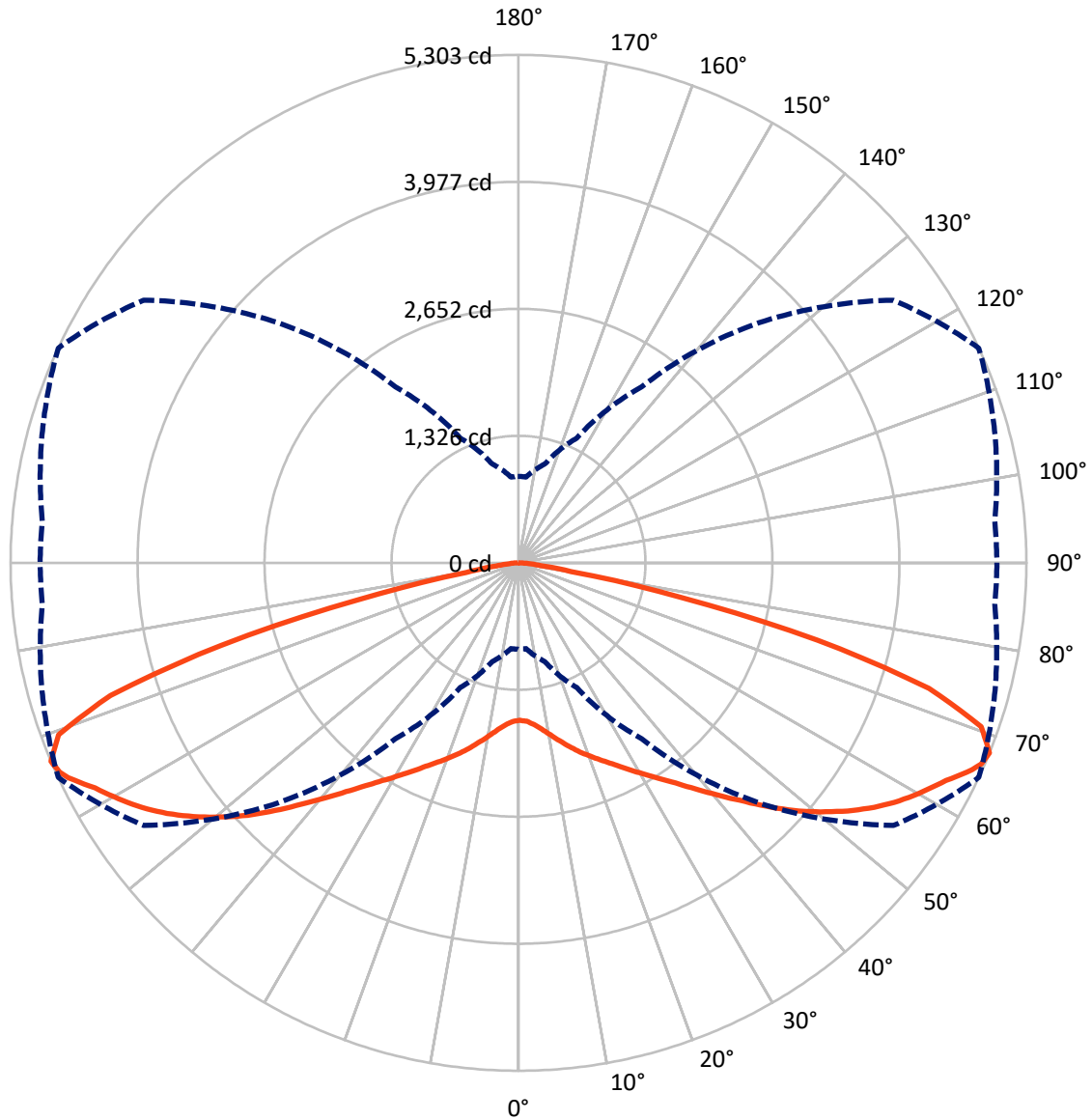
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7848.7	0.0	7848.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7848.7	0.0	7848.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	15697.3	0.0	15697.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	1.0
10°-20°	542.7	3.5
20°-30°	1061.6	6.8
30°-40°	1805.7	11.5
40°-50°	2857.8	18.2
50°-60°	3789.4	24.1
60°-70°	3574.6	22.8
70°-80°	1767.1	11.3
80°-90°	136.2	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°	15697.3	100.0
0°-180°	15697.3	100.0

Coefficient of Utilization



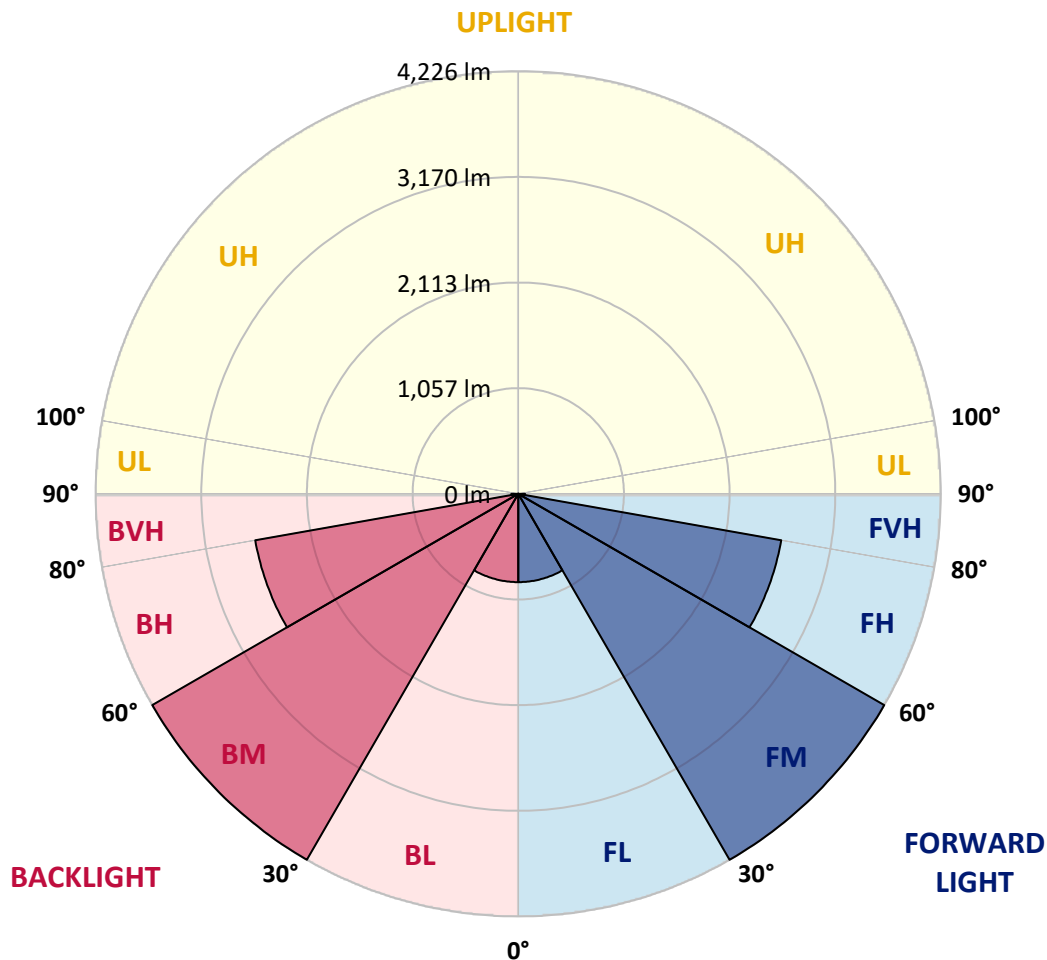
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	883.2	5.6			
FM (30°-60°)	4226.5	26.9			
FH (60°-80°)	2670.8	17.0			G2/5000
FVH (80°-90°)	68.1	0.4			G1/100
BL (0°-30°)	883.2	5.6	B2/1000		
BM (30°-60°)	4226.5	26.9	B3/5000		
BH (60°-80°)	2670.8	17.0	B4/5000		G4/5000
BVH (80°-90°)	68.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1635.7	1637.4	1639.1	1641.6	1645.0	1650.0	1653.4	1655.9	1662.7	1663.5	1662.7
5°	1629.9	1631.5	1635.7	1643.3	1654.2	1669.4	1681.2	1695.5	1706.4	1714.0	1712.3
7.5°	1629.0	1632.4	1639.1	1655.1	1676.1	1702.2	1729.1	1753.5	1774.5	1791.3	1788.8
10°	1642.5	1646.7	1657.6	1681.2	1714.0	1751.8	1789.6	1825.8	1856.1	1878.0	1885.5
12.5°	1665.2	1668.5	1688.7	1724.0	1771.1	1818.2	1861.1	1905.7	1947.8	1984.8	1984.8
15°	1704.7	1710.6	1735.8	1787.1	1845.2	1899.8	1943.6	1990.6	2036.1	2078.1	2090.7
17.5°	1759.4	1767.8	1805.6	1871.2	1945.2	1995.7	2036.9	2075.6	2115.1	2155.5	2161.4
20°	1834.2	1842.6	1893.1	1972.1	2059.6	2120.2	2147.9	2157.2	2176.5	2215.2	2220.2
22.5°	1936.0	1944.4	2000.7	2089.9	2187.4	2253.0	2264.8	2242.9	2237.9	2268.2	2271.5
25°	2051.2	2058.8	2123.5	2219.4	2320.3	2391.8	2388.4	2334.6	2304.3	2322.8	2327.9
27.5°	2180.7	2191.6	2257.2	2356.5	2465.8	2528.9	2518.8	2440.6	2375.8	2372.5	2374.1
30°	2346.4	2358.2	2420.4	2515.4	2623.1	2681.1	2660.1	2555.0	2454.9	2421.2	2421.2
32.5°	2521.3	2550.8	2613.8	2713.1	2797.2	2839.2	2807.3	2681.1	2548.2	2501.1	2498.6
35°	2749.2	2765.2	2827.4	2924.2	2987.2	3020.0	2958.6	2823.2	2670.2	2614.7	2607.1
37.5°	2972.1	2985.5	3057.9	3150.4	3226.9	3225.2	3142.0	2992.3	2821.6	2759.3	2754.3
40°	3200.0	3214.3	3296.7	3381.7	3458.2	3451.5	3350.5	3183.2	3001.5	2931.7	2945.2
42.5°	3397.6	3413.6	3507.0	3628.1	3697.0	3695.4	3578.5	3390.1	3200.8	3138.6	3150.4
45°	3577.6	3591.9	3700.4	3839.2	3940.1	3952.7	3824.9	3625.6	3431.3	3351.4	3354.7
47.5°	3704.6	3731.5	3845.1	4004.0	4141.1	4185.7	4060.3	3865.2	3641.5	3558.3	3563.3
50°	3801.3	3818.1	3941.8	4122.6	4295.8	4388.3	4287.4	4087.3	3851.8	3763.5	3775.2
52.5°	3813.1	3833.3	3967.8	4176.4	4398.4	4538.9	4489.3	4304.2	4066.2	3975.4	4000.6
55°	3717.2	3729.0	3889.6	4142.8	4438.8	4650.7	4663.3	4506.1	4270.6	4201.6	4218.5
57.5°	3443.9	3474.2	3677.7	3985.5	4383.3	4710.4	4793.7	4689.4	4477.5	4409.4	4436.3
60°	2995.6	3025.9	3230.3	3620.5	4173.9	4682.7	4901.3	4851.7	4665.0	4610.4	4624.7
62.5°	2347.2	2344.7	2597.8	3076.4	3757.6	4546.4	4981.2	5008.2	4850.0	4781.1	4803.0
65°	1521.4	1528.9	1773.7	2289.2	3129.4	4200.0	4998.9	5207.5	5031.7	4927.4	4943.4
66°	1223.7	1246.4	1454.1	1929.3	2808.9	3972.9	4945.9	5266.3	5087.2	4961.1	4968.6
67.5°	903.2	899.0	1069.8	1436.4	2242.9	3541.5	4780.2	5303.3	5150.3	4991.3	4994.7
70°	515.5	514.7	575.2	788.9	1318.7	2493.6	4029.2	5125.9	5278.1	5100.7	5091.4
72.5°	376.8	374.2	382.7	435.6	643.4	1259.0	2779.5	4480.0	5212.5	5083.0	5056.9
75°	316.2	314.5	312.9	319.6	360.8	570.2	1475.1	3222.7	4522.9	4771.0	4744.1
77.5°	258.2	258.2	259.0	257.3	259.0	300.2	611.4	1727.4	2754.3	3074.7	3149.5
80°	201.8	201.0	215.3	209.4	196.0	192.6	270.8	555.9	914.2	909.1	750.2
82.5°	148.9	138.8	164.0	159.8	144.7	122.8	158.1	237.2	305.3	198.5	147.2
85°	94.2	93.4	116.1	106.0	88.3	58.0	75.7	101.8	126.2	76.5	62.2
87.5°	16.8	16.0	37.0	26.9	26.9	16.8	21.0	27.8	41.2	28.6	21.0
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)