

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: P451645

Luminaire Tested: **GALN-SA2C-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451645
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-SA2C-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14587 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

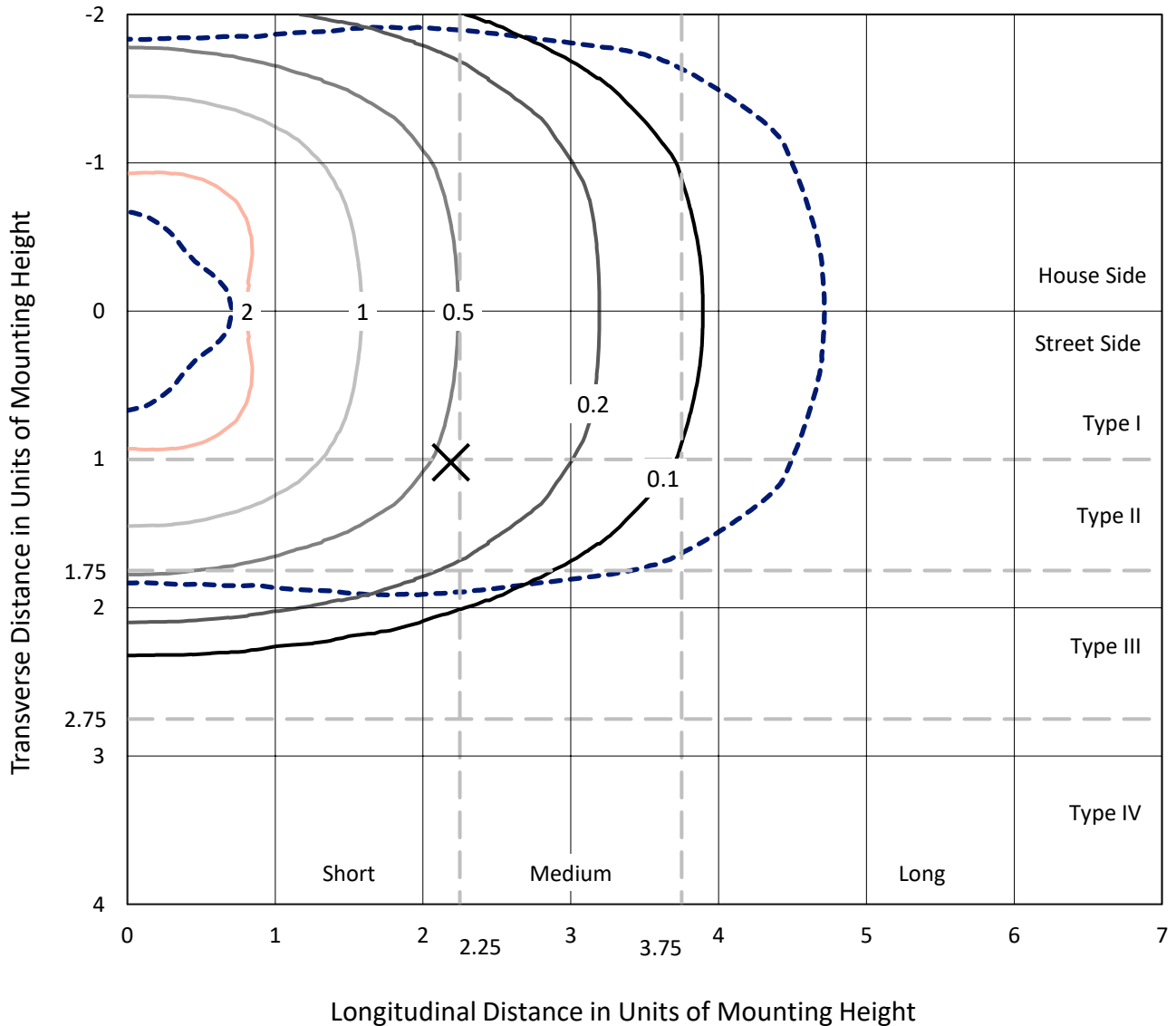
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

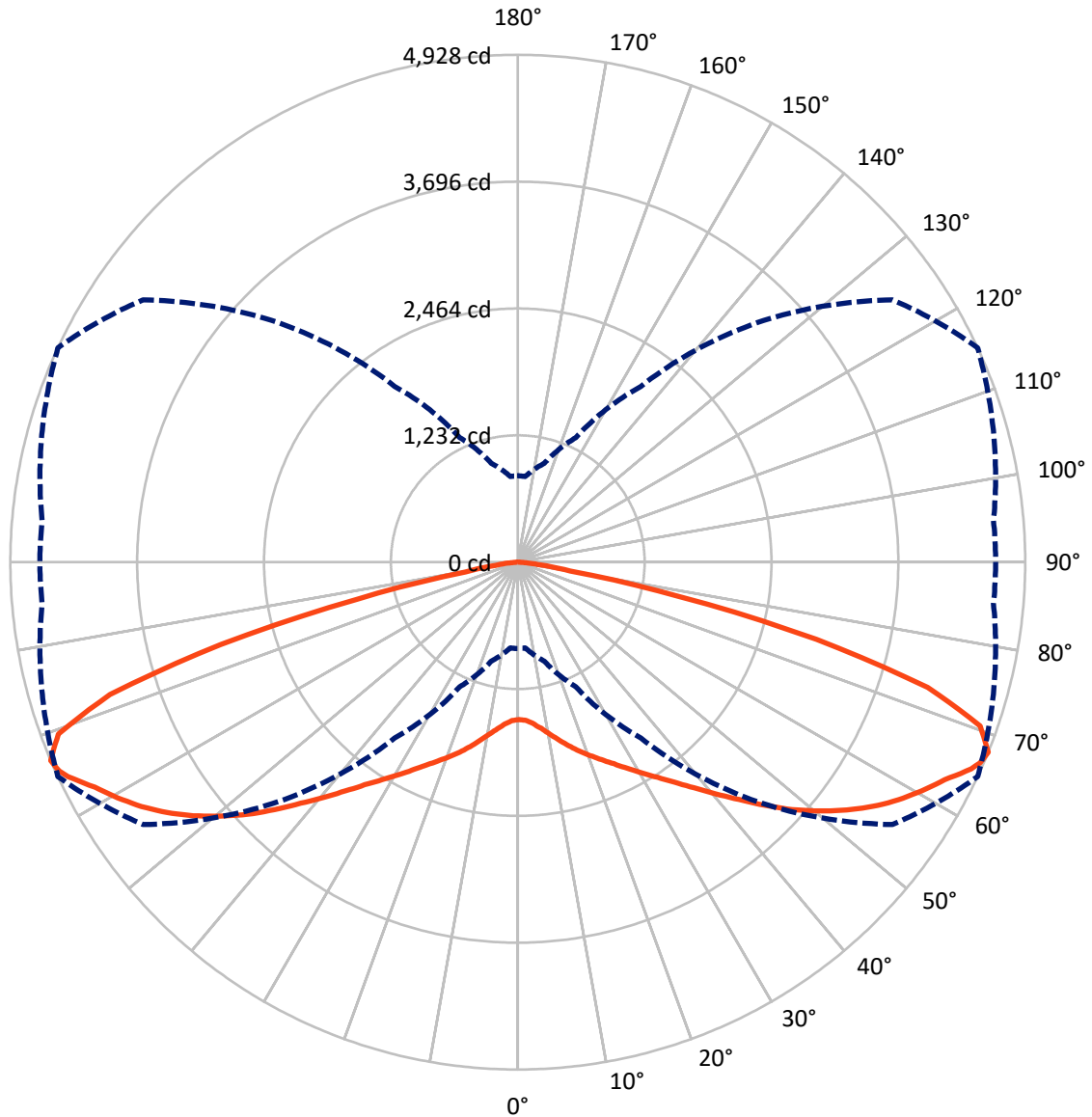
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	7293.5	0.0	7293.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7293.5	0.0	7293.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14587.0	0.0	14587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	1.0
10°-20°	504.3	3.5
20°-30°	986.5	6.8
30°-40°	1677.9	11.5
40°-50°	2655.7	18.2
50°-60°	3521.4	24.1
60°-70°	3321.8	22.8
70°-80°	1642.1	11.3
80°-90°	126.5	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°	14587.0	100.0
0°-180°	14587.0	100.0

Coefficient of Utilization



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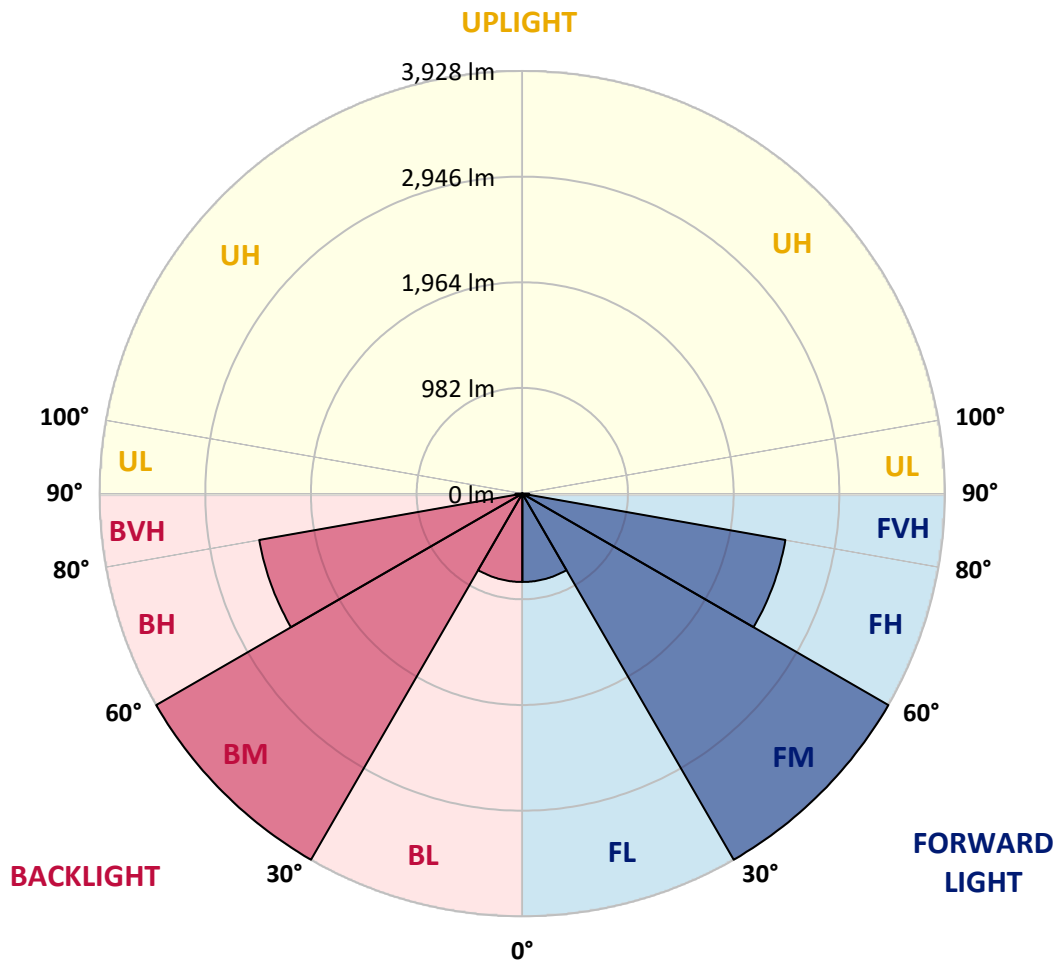
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	820.8	5.6			
FM	(30°-60°)	3927.5	26.9			
FH	(60°-80°)	2481.9	17.0			G2/5000
FVH	(80°-90°)	63.3	0.4			G1/100
BL	(0°-30°)	820.8	5.6	B2/1000		
BM	(30°-60°)	3927.5	26.9	B3/5000		
BH	(60°-80°)	2481.9	17.0	B3/2500		G3/2500
BVH	(80°-90°)	63.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9	1527.9
2.5°	1520.0	1521.6	1523.2	1525.5	1528.6	1533.3	1536.5	1538.8	1545.1	1545.8	1545.1
5°	1514.6	1516.1	1520.0	1527.1	1537.2	1551.3	1562.2	1575.5	1585.7	1592.7	1591.2
7.5°	1513.8	1516.9	1523.2	1538.0	1557.6	1581.8	1606.8	1629.5	1649.0	1664.6	1662.3
10°	1526.3	1530.2	1540.4	1562.2	1592.7	1627.9	1663.1	1696.7	1724.8	1745.1	1752.2
12.5°	1547.4	1550.5	1569.3	1602.1	1645.9	1689.6	1729.5	1770.9	1810.0	1844.4	1844.4
15°	1584.1	1589.6	1613.0	1660.7	1714.6	1765.4	1806.1	1849.8	1892.0	1931.1	1942.8
17.5°	1634.9	1642.7	1677.9	1738.9	1807.6	1854.5	1892.8	1928.8	1965.5	2003.0	2008.5
20°	1704.5	1712.3	1759.2	1832.6	1913.9	1970.2	1996.0	2004.6	2022.6	2058.5	2063.2
22.5°	1799.0	1806.9	1859.2	1942.1	2032.7	2093.7	2104.6	2084.3	2079.6	2107.7	2110.9
25°	1906.1	1913.1	1973.3	2062.4	2156.2	2222.6	2219.5	2169.5	2141.3	2158.5	2163.2
27.5°	2026.5	2036.6	2097.6	2189.8	2291.4	2350.0	2340.6	2268.0	2207.8	2204.7	2206.2
30°	2180.4	2191.4	2249.2	2337.5	2437.5	2491.5	2471.9	2374.2	2281.2	2250.0	2250.0
32.5°	2343.0	2370.3	2428.9	2521.2	2599.3	2638.4	2608.7	2491.5	2368.0	2324.2	2321.9
35°	2554.8	2569.6	2627.4	2717.3	2775.9	2806.4	2749.4	2623.5	2481.3	2429.7	2422.7
37.5°	2761.9	2774.4	2841.6	2927.6	2998.7	2997.1	2919.7	2780.6	2622.0	2564.1	2559.5
40°	2973.7	2986.9	3063.5	3142.5	3213.6	3207.3	3113.6	2958.0	2789.2	2724.4	2736.9
42.5°	3157.3	3172.2	3258.9	3371.5	3435.5	3434.0	3325.3	3150.3	2974.4	2916.6	2927.6
45°	3324.6	3337.8	3438.7	3567.6	3661.4	3673.1	3554.3	3369.1	3188.6	3114.3	3117.5
47.5°	3442.6	3467.6	3573.1	3720.8	3848.2	3889.6	3773.1	3591.8	3384.0	3306.6	3311.3
50°	3532.4	3548.1	3663.0	3831.0	3992.0	4077.9	3984.2	3798.2	3579.3	3497.3	3508.2
52.5°	3543.4	3562.1	3687.2	3881.0	4087.3	4217.8	4171.7	3999.8	3778.6	3694.2	3717.7
55°	3454.3	3465.2	3614.5	3849.7	4124.8	4321.8	4333.5	4187.4	3968.5	3904.4	3920.1
57.5°	3200.3	3228.4	3417.6	3703.6	4073.3	4377.3	4454.6	4357.7	4160.8	4097.5	4122.5
60°	2783.8	2811.9	3001.8	3364.4	3878.7	4351.5	4554.7	4508.6	4335.1	4284.3	4297.5
62.5°	2181.2	2178.9	2414.1	2858.8	3491.8	4224.9	4628.9	4653.9	4507.0	4442.9	4463.2
65°	1413.8	1420.8	1648.2	2127.3	2908.0	3902.9	4645.3	4839.1	4675.8	4578.9	4593.7
66°	1137.1	1158.2	1351.2	1792.8	2610.3	3691.9	4596.1	4893.8	4727.4	4610.2	4617.2
67.5°	839.3	835.4	994.1	1334.8	2084.3	3291.0	4442.1	4928.2	4786.0	4638.3	4641.4
70°	479.1	478.3	534.6	733.1	1225.4	2317.2	3744.2	4763.3	4904.8	4739.9	4731.3
72.5°	350.1	347.8	355.6	404.8	597.9	1169.9	2582.9	4163.1	4843.8	4723.5	4699.2
75°	293.8	292.3	290.7	297.0	335.3	529.9	1370.8	2994.8	4203.0	4433.5	4408.5
77.5°	239.9	239.9	240.7	239.1	240.7	279.0	568.2	1605.2	2559.5	2857.2	2926.8
80°	187.6	186.8	200.1	194.6	182.1	179.0	251.6	516.6	849.5	844.8	697.1
82.5°	138.3	128.9	152.4	148.5	134.4	114.1	146.9	220.4	283.7	184.4	136.8
85°	87.5	86.7	107.8	98.5	82.1	53.9	70.3	94.6	117.2	71.1	57.8
87.5°	15.6	14.8	34.4	25.0	25.0	15.6	19.5	25.8	38.3	26.6	19.5
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)