

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: P453124

Luminaire Tested: **GALN-SA4A-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453124
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-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13721 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 121
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

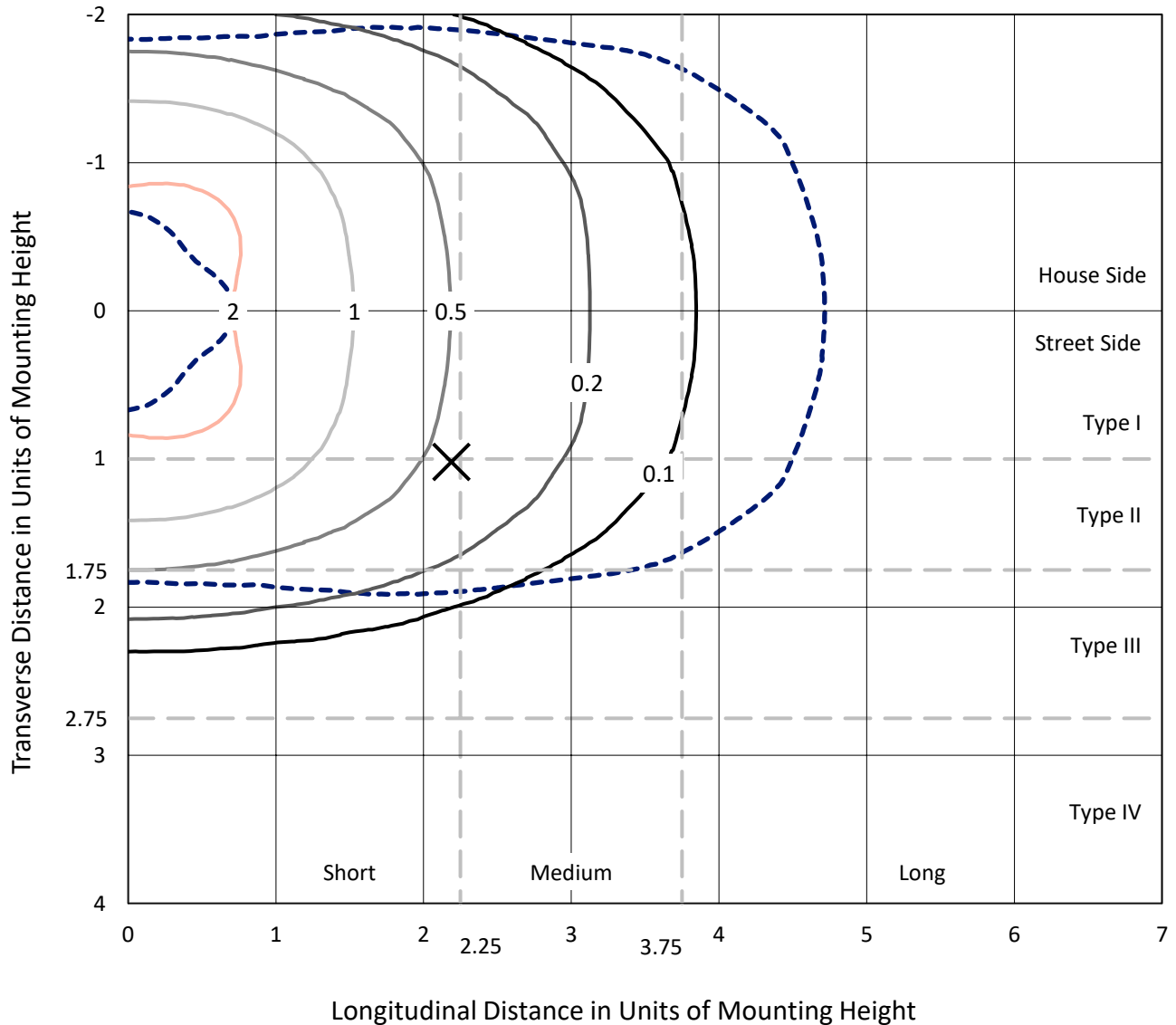




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Iso-Footcandle Lines of Horizontal Illumination

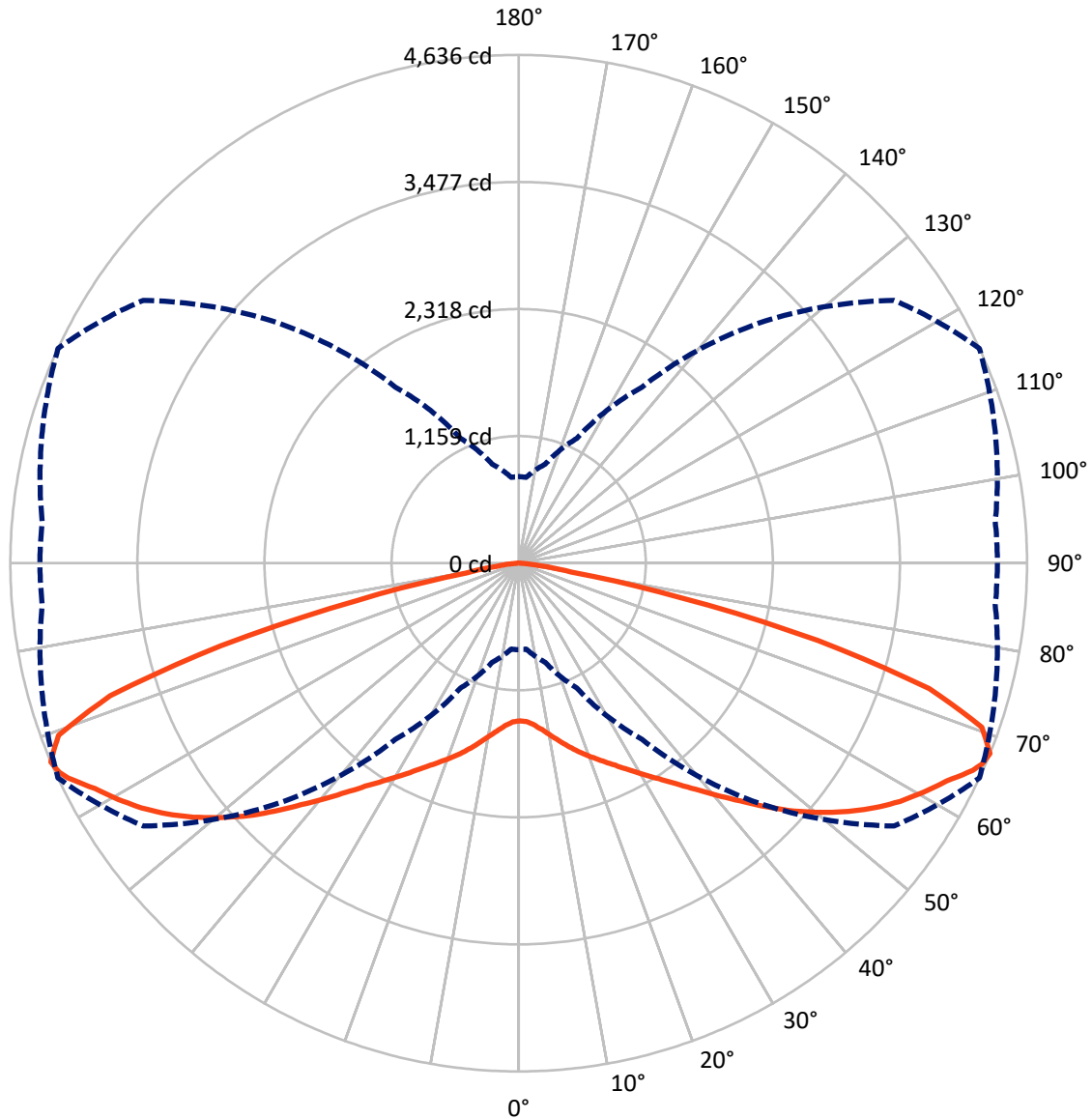
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	6860.5	0.0	6860.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6860.5	0.0	6860.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13721.0	0.0	13721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	1.0
10°-20°	474.4	3.5
20°-30°	928.0	6.8
30°-40°	1578.3	11.5
40°-50°	2498.0	18.2
50°-60°	3312.3	24.1
60°-70°	3124.5	22.8
70°-80°	1544.6	11.3
80°-90°	119.0	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°	13721.0	100.0
0°-180°	13721.0	100.0

Coefficient of Utilization



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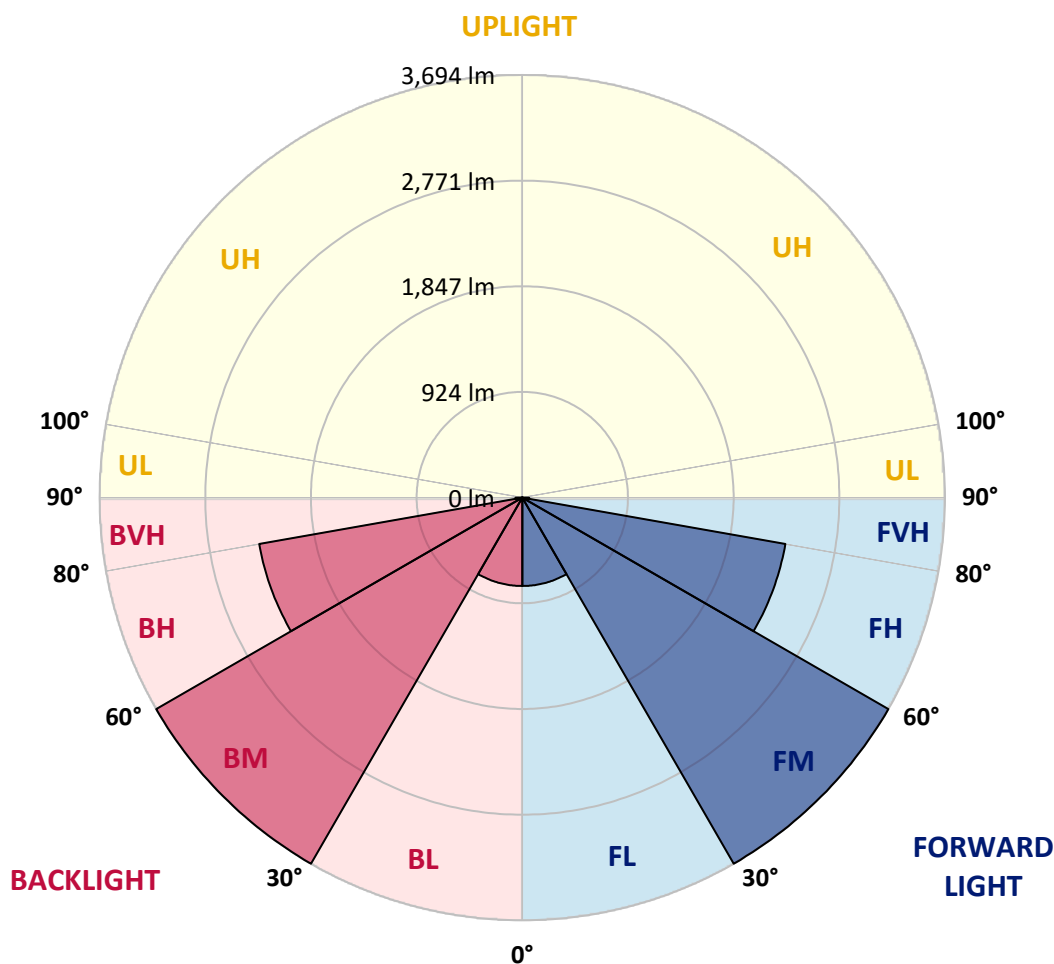
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	772.1	5.6			
FM	(30°-60°)	3694.3	26.9			
FH	(60°-80°)	2334.6	17.0			G2/5000
FVH	(80°-90°)	59.5	0.4			G1/100
BL	(0°-30°)	772.1	5.6	B2/1000		
BM	(30°-60°)	3694.3	26.9	B3/5000		
BH	(60°-80°)	2334.6	17.0	B3/2500		G3/2500
BVH	(80°-90°)	59.5	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°	1437.2	1437.2	1437.2	1437.2	1437.2	1437.2	1437.2	1437.2	1437.2	1437.2	1437.2
2.5°	1429.8	1431.3	1432.7	1434.9	1437.9	1442.3	1445.2	1447.4	1453.3	1454.1	1453.3
5°	1424.7	1426.1	1429.8	1436.4	1446.0	1459.2	1469.5	1482.0	1491.6	1498.2	1496.7
7.5°	1423.9	1426.9	1432.7	1446.7	1465.1	1487.9	1511.4	1532.7	1551.1	1565.8	1563.6
10°	1435.7	1439.4	1448.9	1469.5	1498.2	1531.2	1564.3	1595.9	1622.4	1641.5	1648.1
12.5°	1455.5	1458.5	1476.1	1507.0	1548.2	1589.3	1626.8	1665.8	1702.5	1734.9	1734.9
15°	1490.1	1495.2	1517.3	1562.1	1612.8	1660.6	1698.9	1740.0	1779.7	1816.5	1827.5
17.5°	1537.9	1545.2	1578.3	1635.6	1700.3	1744.4	1780.5	1814.3	1848.8	1884.1	1889.3
20°	1603.3	1610.6	1654.7	1723.8	1800.3	1853.2	1877.5	1885.6	1902.5	1936.3	1940.7
22.5°	1692.2	1699.6	1748.8	1826.8	1912.0	1969.4	1979.7	1960.6	1956.1	1982.6	1985.6
25°	1793.0	1799.6	1856.2	1940.0	2028.2	2090.7	2087.7	2040.7	2014.2	2030.4	2034.8
27.5°	1906.2	1915.7	1973.1	2059.8	2155.4	2210.5	2201.7	2133.3	2076.7	2073.8	2075.2
30°	2051.0	2061.3	2115.7	2198.7	2292.8	2343.6	2325.2	2233.3	2145.8	2116.4	2116.4
32.5°	2203.9	2229.6	2284.7	2371.5	2445.0	2481.8	2453.8	2343.6	2227.4	2186.2	2184.0
35°	2403.1	2417.1	2471.5	2556.0	2611.1	2639.8	2586.1	2467.8	2334.0	2285.5	2278.9
37.5°	2597.9	2609.7	2672.9	2753.7	2820.6	2819.2	2746.4	2615.5	2466.3	2411.9	2407.5
40°	2797.1	2809.6	2881.7	2955.9	3022.8	3016.9	2928.7	2782.4	2623.6	2562.6	2574.4
42.5°	2969.9	2983.8	3065.4	3171.3	3231.6	3230.1	3127.9	2963.3	2797.9	2743.5	2753.7
45°	3127.2	3139.7	3234.5	3355.8	3444.0	3455.0	3343.3	3169.1	2999.3	2929.4	2932.4
47.5°	3238.2	3261.7	3361.0	3499.9	3619.7	3658.7	3549.1	3378.6	3183.1	3110.3	3114.7
50°	3322.7	3337.4	3445.5	3603.5	3755.0	3835.8	3747.6	3572.7	3366.8	3289.6	3299.9
52.5°	3333.0	3350.7	3468.3	3650.6	3844.7	3967.4	3924.1	3762.3	3554.3	3474.9	3497.0
55°	3249.2	3259.5	3399.9	3621.2	3879.9	4065.2	4076.2	3938.8	3732.9	3672.6	3687.3
57.5°	3010.3	3036.8	3214.7	3483.7	3831.4	4117.4	4190.2	4099.0	3913.8	3854.2	3877.7
60°	2618.5	2645.0	2823.6	3164.7	3648.4	4093.1	4284.3	4240.9	4077.7	4029.9	4042.4
62.5°	2051.7	2049.5	2270.8	2689.1	3284.5	3974.0	4354.1	4377.6	4239.4	4179.1	4198.3
65°	1329.8	1336.4	1550.4	2001.0	2735.4	3671.2	4369.5	4551.8	4398.2	4307.1	4321.0
66°	1069.6	1089.4	1271.0	1686.4	2455.3	3472.7	4323.2	4603.3	4446.7	4336.5	4343.1
67.5°	789.5	785.8	935.1	1255.6	1960.6	3095.6	4178.4	4635.6	4501.9	4362.9	4365.9
70°	450.6	449.9	502.8	689.5	1152.7	2179.6	3521.9	4480.5	4613.6	4458.5	4450.4
72.5°	329.3	327.1	334.5	380.8	562.4	1100.5	2429.6	3916.0	4556.3	4443.0	4420.3
75°	276.4	274.9	273.5	279.3	315.4	498.4	1289.4	2817.0	3953.5	4170.3	4146.8
77.5°	225.7	225.7	226.4	224.9	226.4	262.4	534.4	1509.9	2407.5	2687.6	2753.0
80°	176.4	175.7	188.2	183.0	171.3	168.3	236.7	485.9	799.1	794.7	655.7
82.5°	130.1	121.3	143.3	139.7	126.4	107.3	138.2	207.3	266.8	173.5	128.6
85°	82.3	81.6	101.4	92.6	77.2	50.7	66.2	88.9	110.3	66.9	54.4
87.5°	14.7	14.0	32.3	23.5	23.5	14.7	18.4	24.3	36.0	25.0	18.4
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)