

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: P452018

Luminaire Tested: **GALN-SA3A-722-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-722-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10473 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

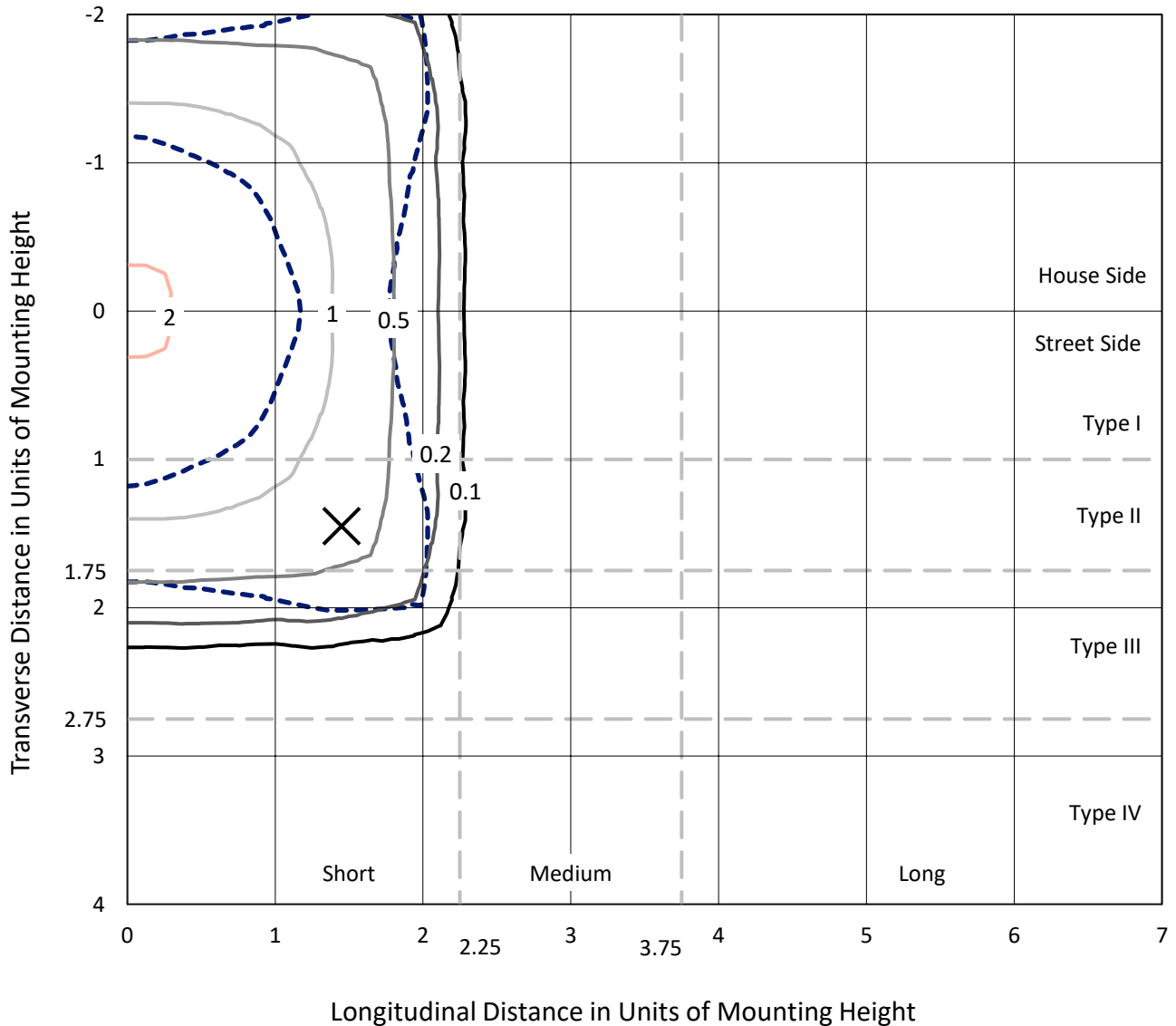
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452018
 CATALOG NUMBER: GALN-SA3A-722-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

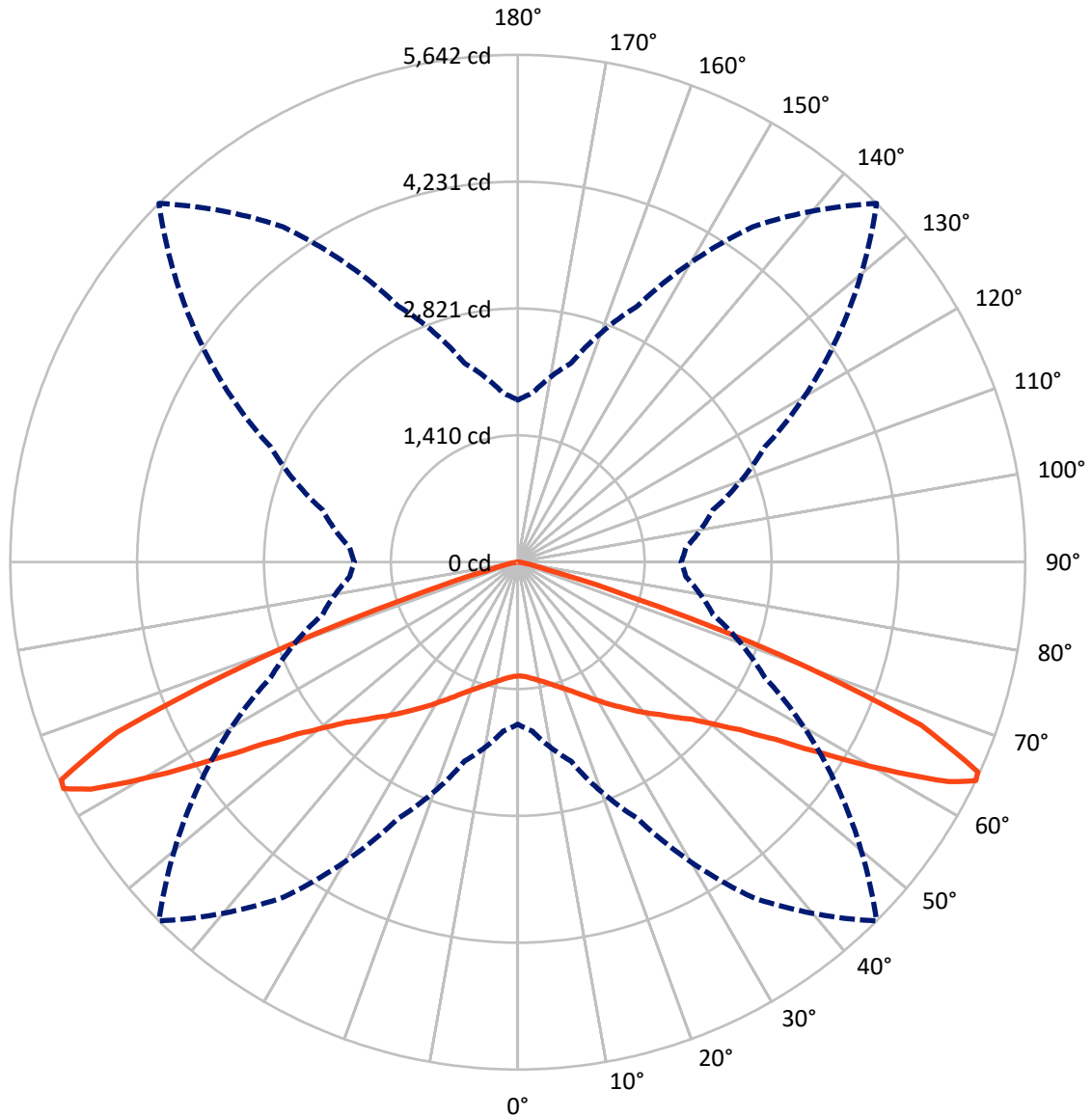
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

REPORT NUMBER: P452018
CATALOG NUMBER: GALN-SA3A-722-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P452018

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5236.5	0.0	5236.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5236.5	0.0	5236.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10473.0	0.0	10473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	1.2
10°-20°	401.1	3.8
20°-30°	758.0	7.2
30°-40°	1255.4	12.0
40°-50°	1959.9	18.7
50°-60°	3029.9	28.9
60°-70°	2612.7	24.9
70°-80°	296.1	2.8
80°-90°	35.5	0.3
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°	10473.0	100.0
0°-180°	10473.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452018

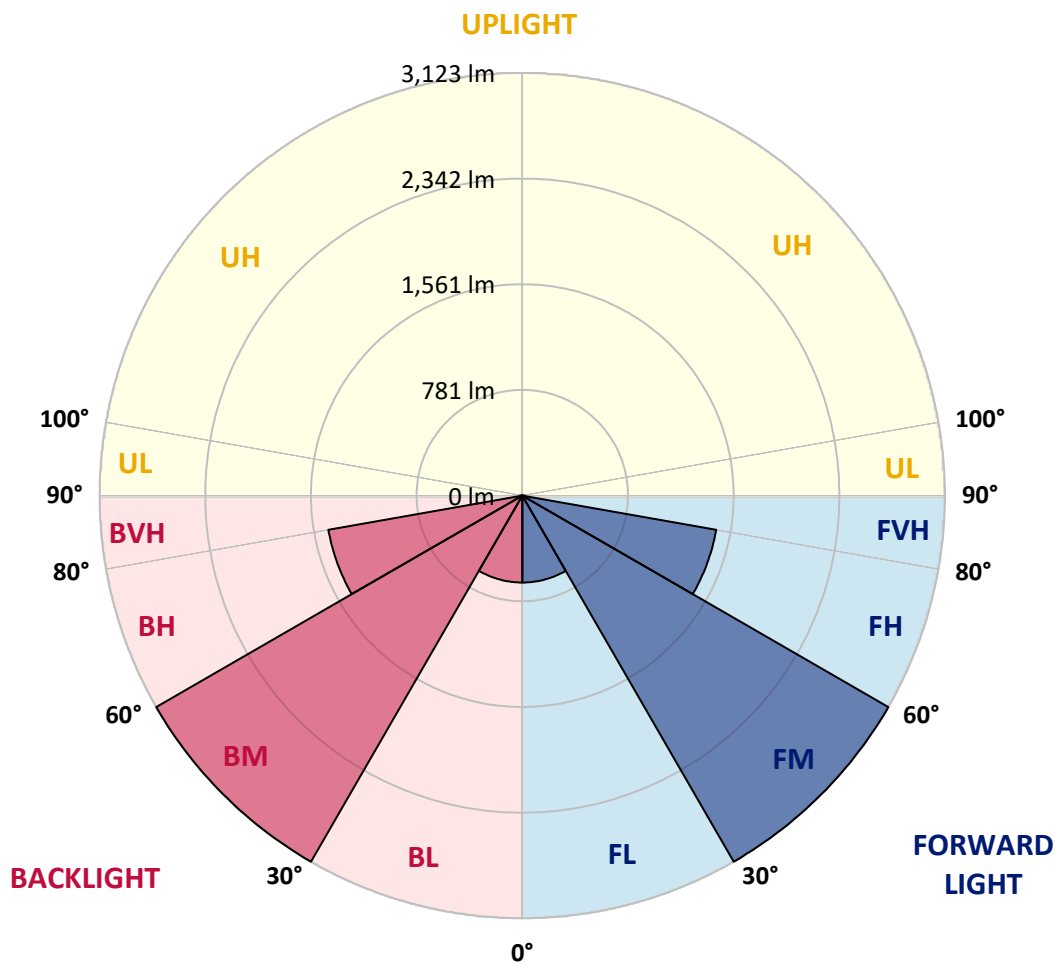
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	641.8	6.1			
FM	(30°-60°)	3122.6	29.8			
FH	(60°-80°)	1454.4	13.9			G1/1800
FVH	(80°-90°)	17.7	0.2			G1/100
BL	(0°-30°)	641.8	6.1	B2/1000		
BM	(30°-60°)	3122.6	29.8	B3/5000		
BH	(60°-80°)	1454.4	13.9	B3/2500		G1/1800
BVH	(80°-90°)	17.7	0.2			G1/100
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°	1265.8	1265.8	1265.8	1265.8	1265.8	1265.8	1265.8	1265.8	1265.8	1265.8	1265.8
2.5°	1270.8	1273.6	1271.4	1270.8	1270.3	1270.3	1270.3	1270.8	1273.0	1274.7	1273.6
5°	1286.9	1289.1	1288.0	1287.5	1286.9	1287.5	1286.4	1285.8	1287.5	1287.5	1286.9
7.5°	1306.9	1309.7	1308.6	1309.7	1310.2	1310.8	1308.0	1305.8	1305.2	1306.9	1305.8
10°	1334.1	1336.3	1336.8	1337.4	1338.5	1337.9	1334.6	1330.7	1330.2	1329.6	1329.1
12.5°	1364.6	1366.2	1366.8	1369.0	1370.7	1371.2	1367.3	1364.0	1358.5	1359.6	1357.4
15°	1399.0	1402.3	1401.7	1405.1	1409.5	1410.6	1406.7	1401.2	1396.2	1393.4	1391.8
17.5°	1441.1	1443.3	1442.2	1445.6	1451.1	1453.9	1450.6	1443.3	1438.4	1432.2	1428.9
20°	1491.0	1494.9	1496.0	1496.0	1501.0	1503.8	1498.8	1496.6	1488.8	1484.4	1481.6
22.5°	1547.6	1549.3	1552.6	1555.9	1560.9	1559.8	1558.2	1554.8	1547.6	1543.7	1539.3
25°	1611.4	1613.1	1621.4	1628.6	1630.3	1629.2	1627.0	1625.3	1618.6	1609.8	1606.4
27.5°	1685.8	1689.1	1700.2	1706.8	1706.8	1707.4	1702.9	1708.5	1694.1	1683.5	1682.4
30°	1778.9	1781.2	1790.6	1797.2	1793.9	1791.1	1790.0	1795.6	1780.1	1761.2	1756.8
32.5°	1871.0	1878.8	1887.1	1901.5	1889.9	1884.9	1883.8	1887.7	1869.9	1848.8	1842.7
35°	1969.8	1975.3	1990.8	2003.0	1992.5	1980.9	1985.8	1998.0	1977.0	1948.7	1947.6
37.5°	2079.0	2084.0	2104.0	2116.8	2109.0	2089.0	2097.3	2111.8	2090.7	2055.7	2048.5
40°	2192.8	2203.3	2228.3	2241.6	2228.8	2202.2	2217.7	2233.2	2214.4	2173.9	2157.8
42.5°	2320.3	2337.0	2373.0	2379.7	2355.3	2319.2	2346.4	2371.4	2358.1	2311.5	2305.4
45°	2469.5	2479.5	2523.9	2538.3	2504.5	2459.6	2493.4	2538.9	2528.9	2475.1	2463.4
47.5°	2636.5	2645.9	2692.0	2713.6	2670.9	2610.4	2671.5	2730.8	2724.7	2667.0	2661.5
50°	2834.0	2836.2	2900.0	2924.4	2881.7	2829.6	2883.9	2957.7	2933.3	2859.5	2858.4
52.5°	3050.3	3053.1	3133.5	3180.7	3156.8	3098.0	3162.4	3207.3	3145.2	3048.7	3041.5
55°	3237.8	3251.7	3361.5	3486.9	3519.6	3476.9	3496.3	3475.2	3322.1	3186.8	3165.7
57.5°	3314.4	3341.5	3508.5	3742.6	3955.6	4018.8	3869.1	3668.3	3392.6	3201.2	3180.7
60°	3127.4	3156.8	3415.9	3860.2	4403.8	4678.4	4257.4	3701.0	3232.3	2963.2	2931.1
62.5°	2504.5	2512.8	2893.9	3583.4	4665.1	5376.2	4421.0	3422.0	2765.8	2400.2	2387.5
64°	1802.2	1887.7	2291.5	3141.9	4550.8	5641.9	4326.7	3030.9	2246.6	1876.6	1816.7
65°	1347.9	1371.2	1847.2	2683.1	4349.4	5621.9	4143.7	2657.0	1860.5	1436.1	1369.6
67.5°	509.2	512.0	681.7	1337.4	3096.4	4837.0	3162.4	1445.6	783.8	566.9	546.4
70°	211.3	215.2	250.2	449.9	1330.7	3105.8	1524.9	521.4	286.8	232.4	229.1
72.5°	154.8	157.0	167.5	199.7	409.4	1275.3	501.5	221.3	168.1	150.3	148.7
75°	121.5	122.6	130.4	147.0	190.8	353.3	208.6	152.0	128.1	115.4	114.3
77.5°	92.6	95.4	101.0	112.1	128.1	167.5	138.1	113.7	98.7	88.2	86.5
80°	63.8	67.1	77.7	82.1	86.0	108.7	94.3	86.0	77.1	64.3	60.5
82.5°	39.4	41.6	52.1	56.0	54.4	61.0	60.5	61.6	54.9	39.9	37.2
85°	20.5	21.6	28.3	29.4	27.2	25.0	31.1	36.1	33.8	22.7	22.2
87.5°	4.4	5.0	6.1	5.5	6.1	6.1	7.8	11.6	12.2	7.8	7.2
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)