

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: P452076

Luminaire Tested: **GALN-SA3A-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452076
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-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 12975 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

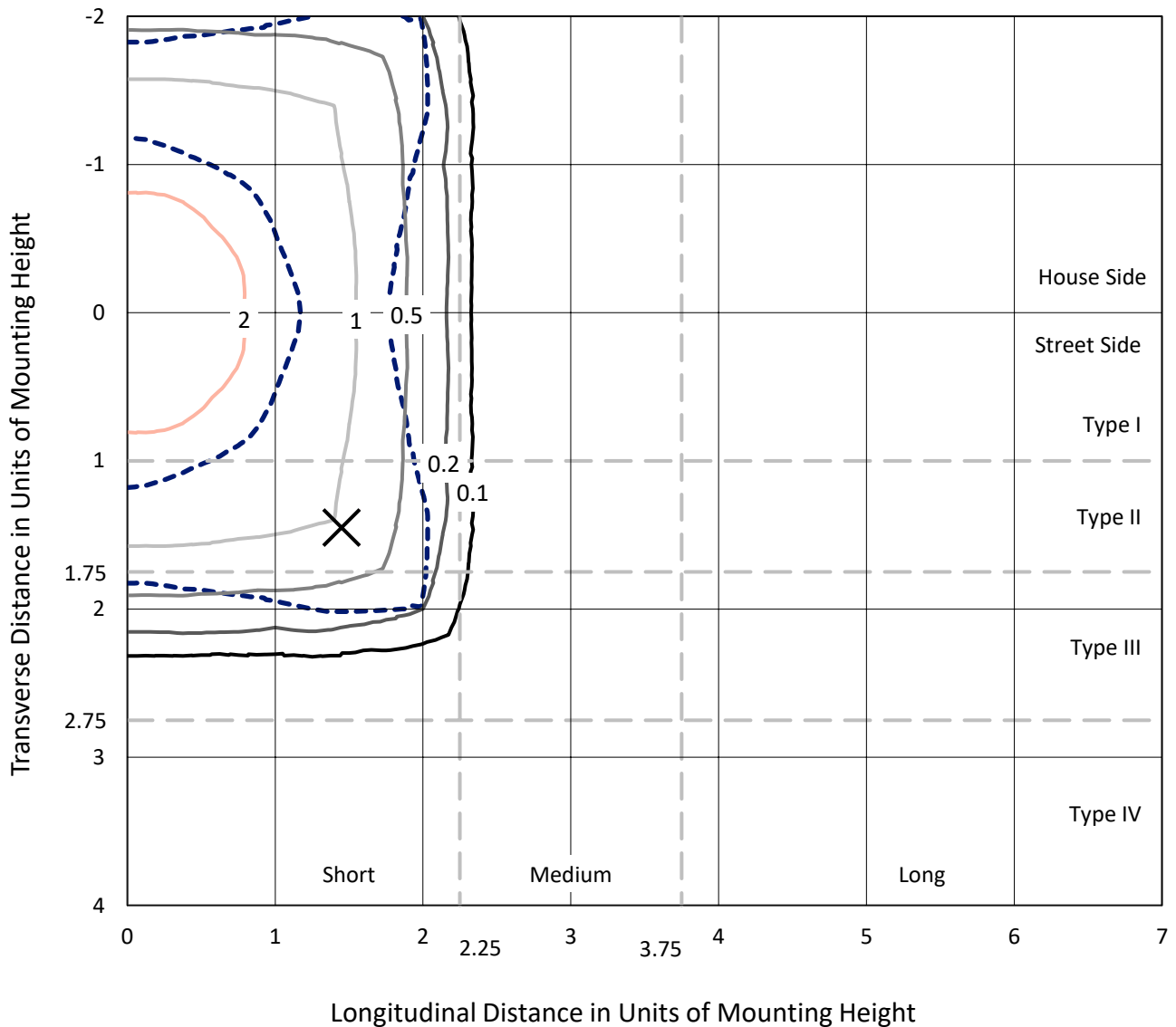
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452076
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Iso-Footcandle Lines of Horizontal Illumination

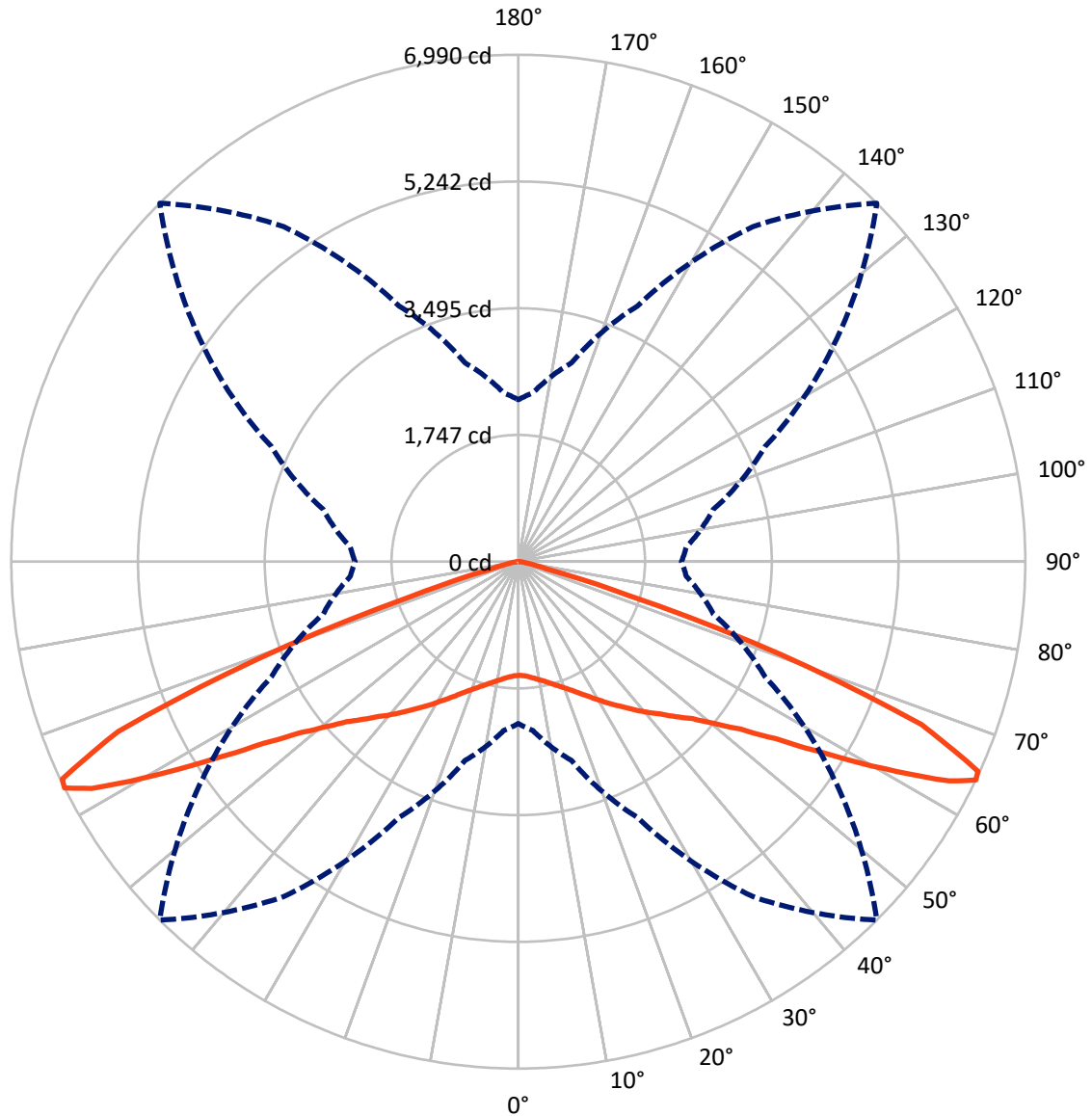
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

REPORT NUMBER: P452076
CATALOG NUMBER: GALN-SA3A-730-U-5NQ

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6487.5	0.0	6487.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6487.5	0.0	6487.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12975.0	0.0	12975.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	1.2
10°-20°	497.0	3.8
20°-30°	939.1	7.2
30°-40°	1555.3	12.0
40°-50°	2428.1	18.7
50°-60°	3753.8	28.9
60°-70°	3236.9	24.9
70°-80°	366.8	2.8
80°-90°	43.9	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°	12975.0	100.0
0°-180°	12975.0	100.0



REPORT NUMBER: P452076

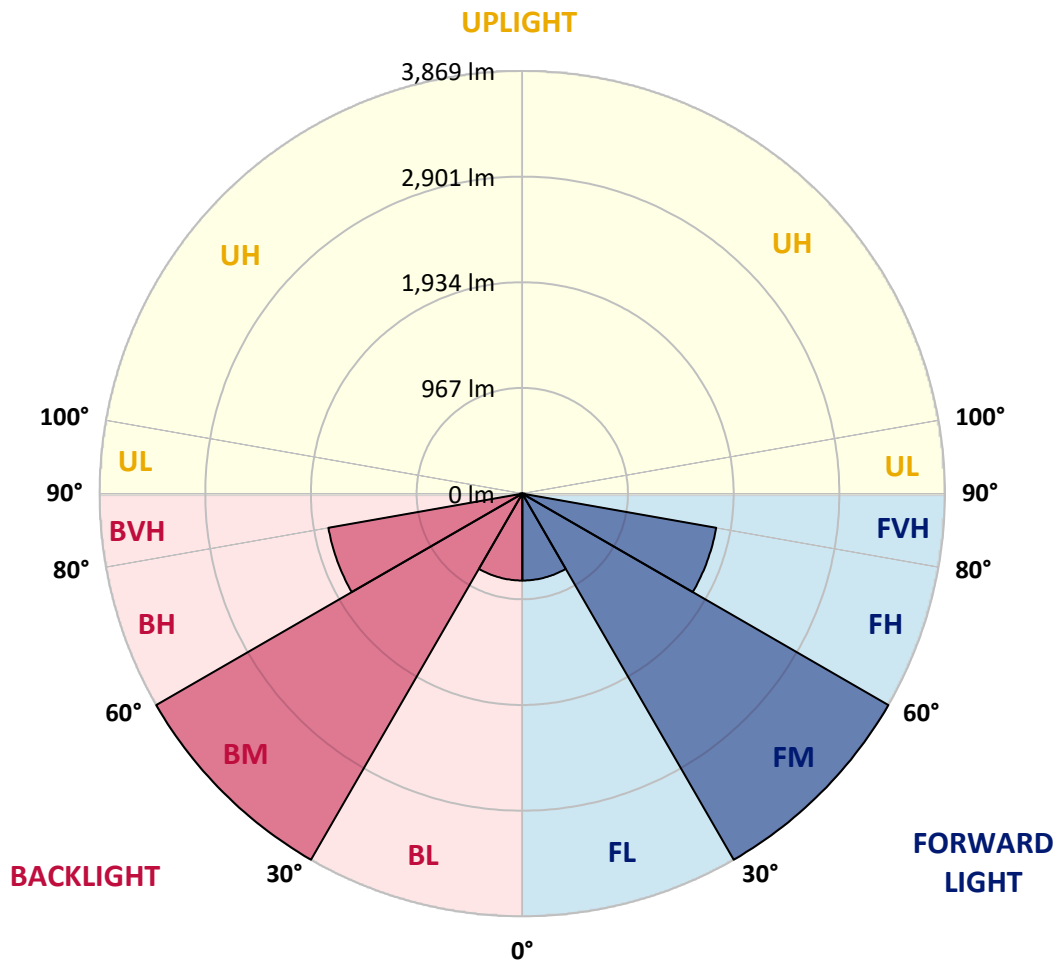
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.1	6.1			
FM	(30°-60°)	3868.6	29.8			
FH	(60°-80°)	1801.8	13.9			G2/5000
FVH	(80°-90°)	22.0	0.2			G1/100
BL	(0°-30°)	795.1	6.1	B2/1000		
BM	(30°-60°)	3868.6	29.8	B3/5000		
BH	(60°-80°)	1801.8	13.9	B3/2500		G2/5000
BVH	(80°-90°)	22.0	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2	1568.2
2.5°	1574.4	1577.9	1575.1	1574.4	1573.7	1573.7	1573.7	1574.4	1577.2	1579.2	1577.9
5°	1594.4	1597.1	1595.7	1595.0	1594.4	1595.0	1593.7	1593.0	1595.0	1595.0	1594.4
7.5°	1619.1	1622.5	1621.2	1622.5	1623.2	1623.9	1620.5	1617.7	1617.0	1619.1	1617.7
10°	1652.8	1655.5	1656.2	1656.9	1658.3	1657.6	1653.5	1648.7	1648.0	1647.3	1646.6
12.5°	1690.6	1692.6	1693.3	1696.1	1698.1	1698.8	1694.0	1689.9	1683.0	1684.4	1681.6
15°	1733.2	1737.3	1736.6	1740.7	1746.2	1747.6	1742.8	1735.9	1729.7	1726.3	1724.2
17.5°	1785.4	1788.2	1786.8	1790.9	1797.8	1801.2	1797.1	1788.2	1782.0	1774.4	1770.3
20°	1847.3	1852.1	1853.4	1853.4	1859.6	1863.1	1856.9	1854.1	1844.5	1839.0	1835.6
22.5°	1917.4	1919.4	1923.5	1927.7	1933.9	1932.5	1930.4	1926.3	1917.4	1912.5	1907.0
25°	1996.4	1998.4	2008.8	2017.7	2019.8	2018.4	2015.6	2013.6	2005.3	1994.3	1990.2
27.5°	2088.5	2092.6	2106.3	2114.6	2114.6	2115.3	2109.8	2116.7	2098.8	2085.7	2084.4
30°	2203.9	2206.7	2218.4	2226.6	2222.5	2219.0	2217.7	2224.5	2205.3	2181.9	2176.4
32.5°	2318.0	2327.6	2337.9	2355.8	2341.4	2335.2	2333.8	2338.6	2316.6	2290.5	2283.0
35°	2440.3	2447.2	2466.4	2481.6	2468.5	2454.1	2460.3	2475.4	2449.3	2414.2	2412.8
37.5°	2575.7	2581.9	2606.6	2622.4	2612.8	2588.1	2598.4	2616.3	2590.2	2546.9	2537.9
40°	2716.6	2729.7	2760.6	2777.1	2761.3	2728.3	2747.5	2766.8	2743.4	2693.2	2673.3
42.5°	2874.7	2895.3	2939.9	2948.2	2918.0	2873.3	2907.0	2937.9	2921.4	2863.7	2856.1
45°	3059.5	3071.9	3126.9	3144.7	3102.8	3047.2	3089.1	3145.4	3133.1	3066.4	3052.0
47.5°	3266.4	3278.1	3335.1	3361.9	3309.0	3234.1	3309.7	3383.2	3375.6	3304.2	3297.3
50°	3511.0	3513.8	3592.8	3623.0	3570.1	3505.5	3572.9	3664.3	3634.0	3542.6	3541.3
52.5°	3779.0	3782.5	3882.1	3940.5	3911.0	3838.2	3917.9	3973.5	3896.6	3777.0	3768.1
55°	4011.3	4028.5	4164.6	4319.9	4360.4	4307.5	4331.6	4305.5	4115.8	3948.1	3922.0
57.5°	4106.2	4139.8	4346.7	4636.7	4900.6	4978.9	4793.4	4544.6	4203.1	3966.0	3940.5
60°	3874.6	3911.0	4231.9	4782.4	5455.9	5796.1	5274.5	4585.2	4004.5	3671.2	3631.3
62.5°	3102.8	3113.1	3585.3	4439.5	5779.6	6660.6	5477.2	4239.5	3426.5	2973.6	2957.8
64°	2232.8	2338.6	2838.9	3892.4	5638.0	6989.8	5360.4	3755.0	2783.3	2324.9	2250.7
65°	1670.0	1698.8	2288.5	3324.1	5388.5	6965.0	5133.6	3291.8	2305.0	1779.2	1696.8
67.5°	630.9	634.3	844.6	1656.9	3836.1	5992.6	3917.9	1790.9	971.0	702.3	676.9
70°	261.8	266.6	309.9	557.3	1648.7	3847.8	1889.2	646.0	355.3	287.9	283.8
72.5°	191.7	194.5	207.5	247.4	507.2	1579.9	621.3	274.2	208.2	186.2	184.2
75°	150.5	151.9	161.5	182.1	236.4	437.8	258.4	188.3	158.7	142.9	141.6
77.5°	114.8	118.2	125.1	138.8	158.7	207.5	171.1	140.9	122.3	109.3	107.2
80°	79.0	83.2	96.2	101.7	106.5	134.7	116.8	106.5	95.5	79.7	74.9
82.5°	48.8	51.5	64.6	69.4	67.3	75.6	74.9	76.3	68.0	49.5	46.0
85°	25.4	26.8	35.0	36.4	33.7	30.9	38.5	44.7	41.9	28.2	27.5
87.5°	5.5	6.2	7.6	6.9	7.6	7.6	9.6	14.4	15.1	9.6	8.9
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)