

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: P451612

Luminaire Tested: **GALN-SA2C-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451612
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-SA2C-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13437 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

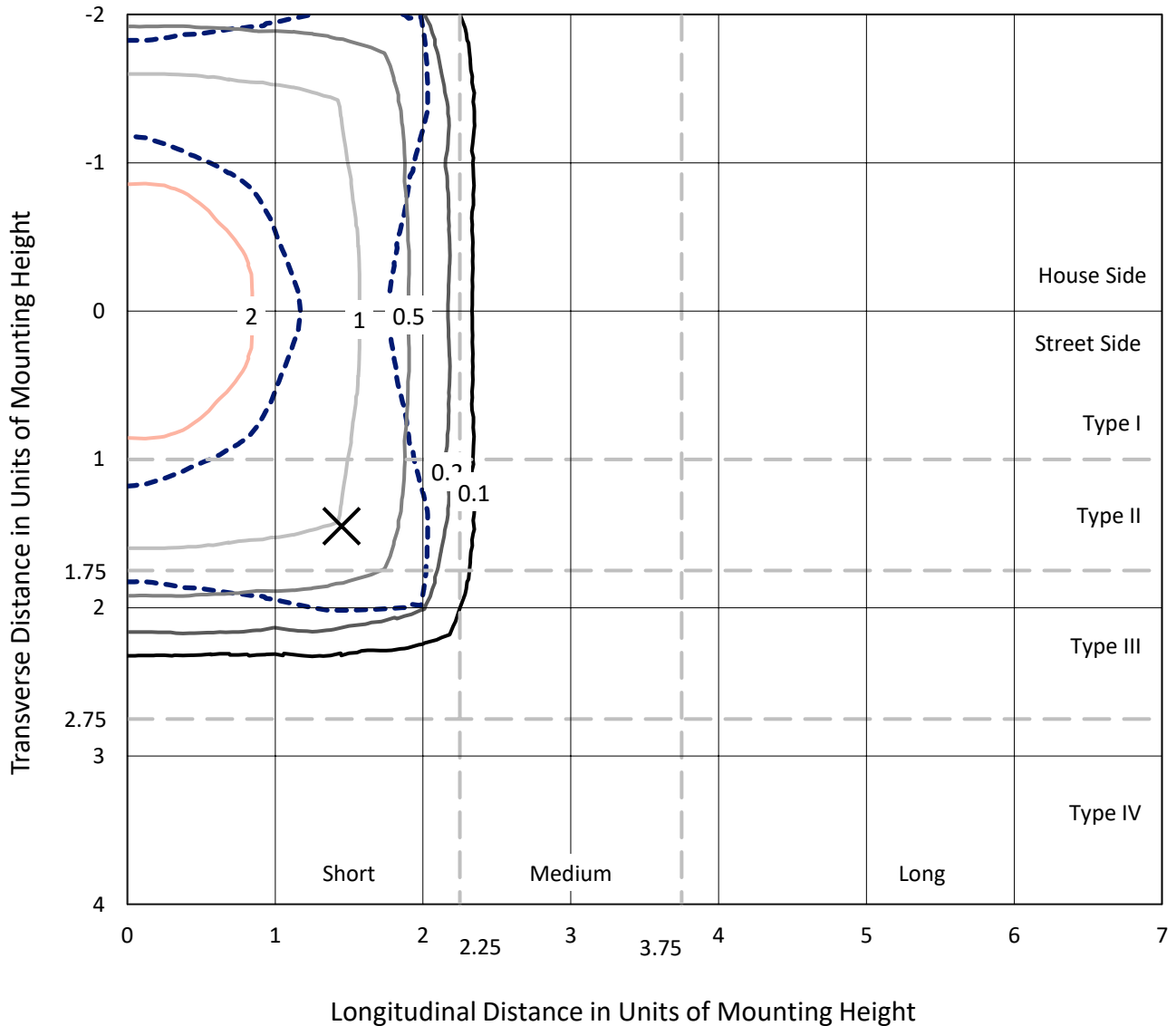
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451612
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Iso-Footcandle Lines of Horizontal Illumination

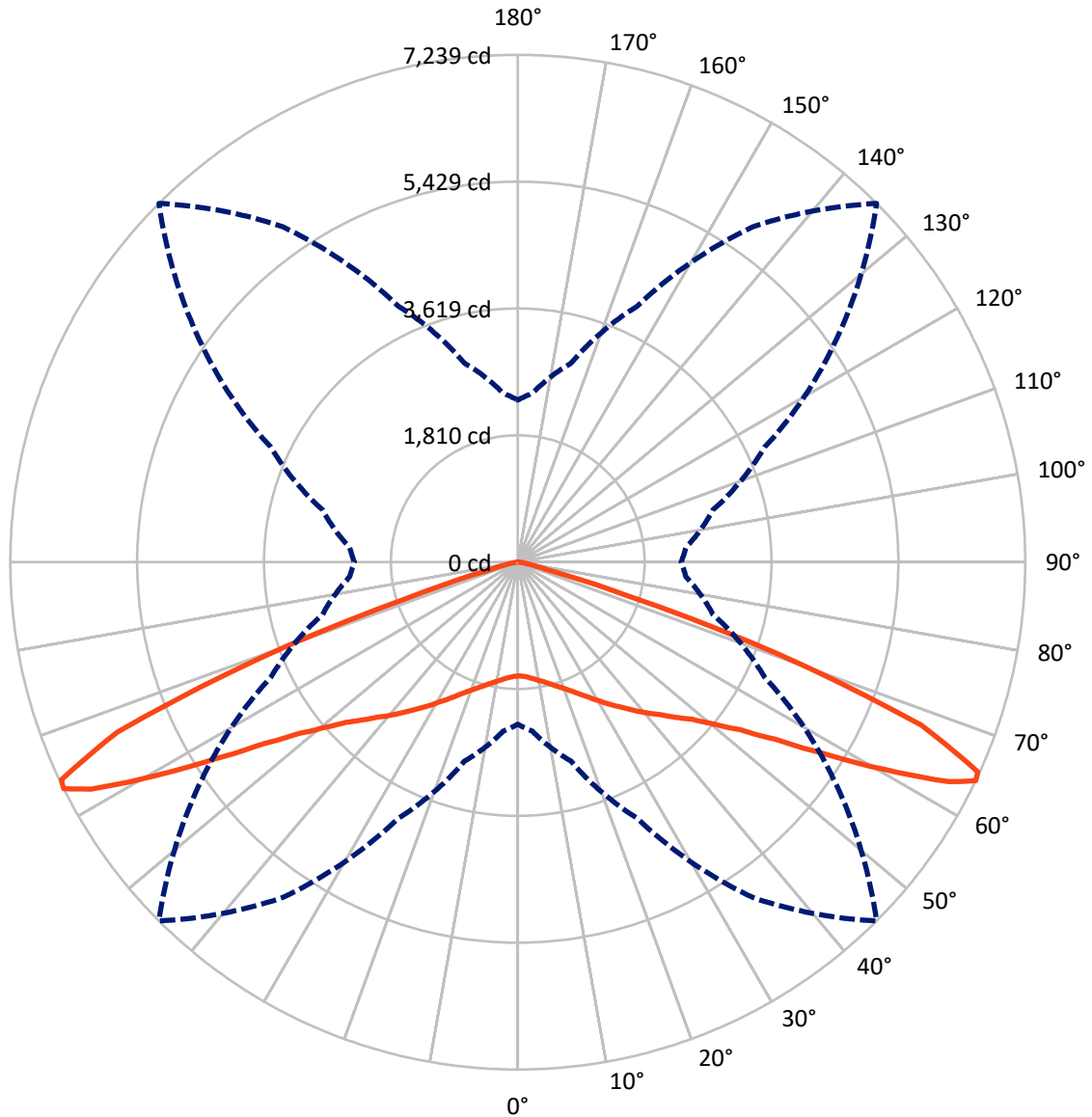
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - N/A

REPORT NUMBER: P451612
CATALOG NUMBER: GALN-SA2C-730-U-5NQ

Luminous Intensity Polar Plot



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

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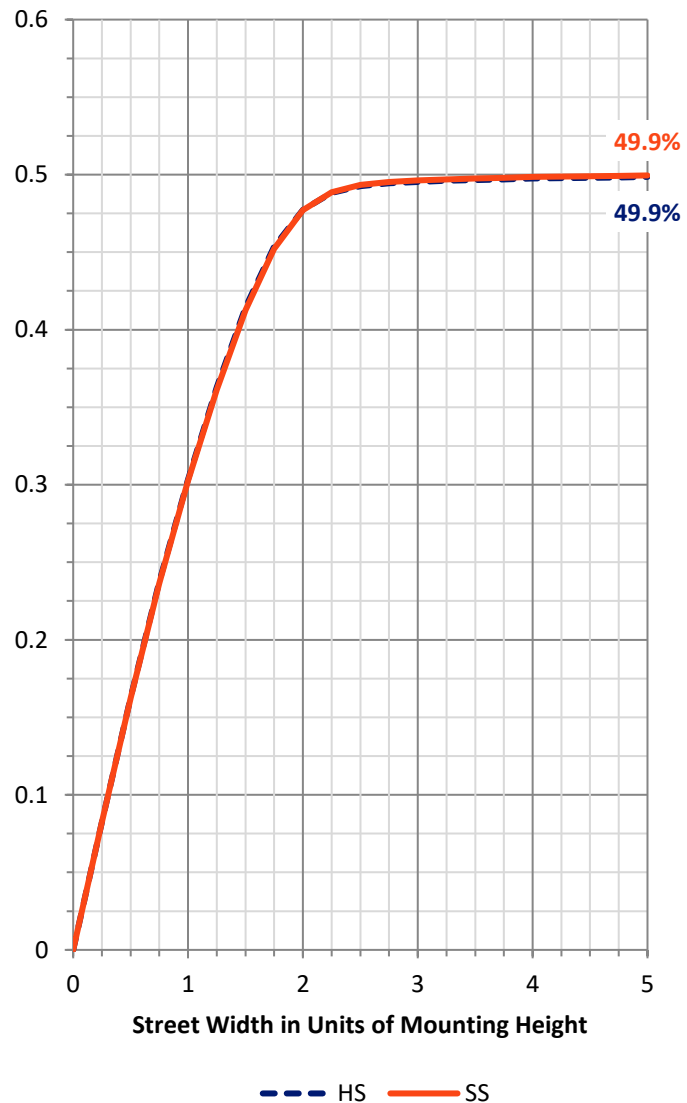
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6718.5	0.0	6718.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6718.5	0.0	6718.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13437.0	0.0	13437.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	1.2
10°-20°	514.7	3.8
20°-30°	972.6	7.2
30°-40°	1610.7	12.0
40°-50°	2514.6	18.7
50°-60°	3887.5	28.9
60°-70°	3352.1	24.9
70°-80°	379.9	2.8
80°-90°	45.5	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°	13437.0	100.0
0°-180°	13437.0	100.0



REPORT NUMBER: P451612

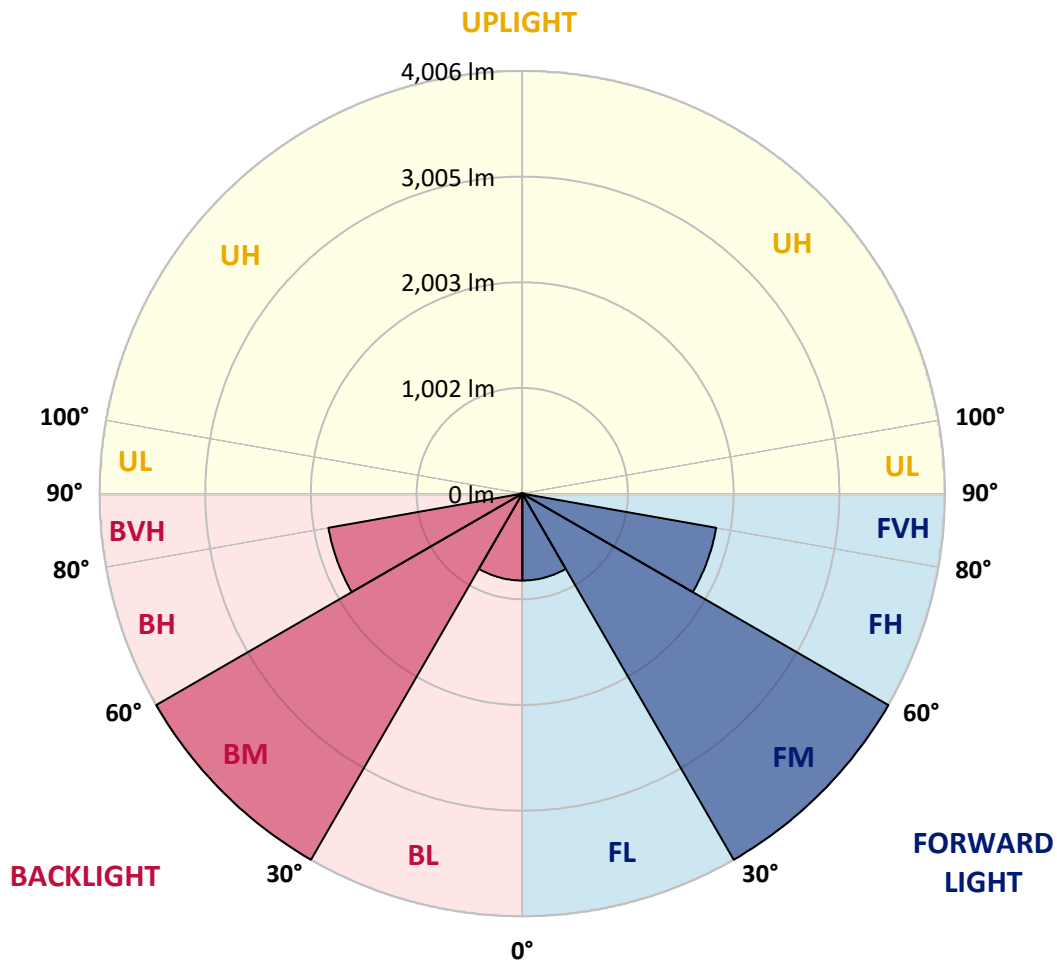
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	823.4	6.1			
FM	(30°-60°)	4006.4	29.8			
FH	(60°-80°)	1866.0	13.9			G2/5000
FVH	(80°-90°)	22.8	0.2			G1/100
BL	(0°-30°)	823.4	6.1	B2/1000		
BM	(30°-60°)	4006.4	29.8	B3/5000		
BH	(60°-80°)	1866.0	13.9	B3/2500		G2/5000
BVH	(80°-90°)	22.8	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°	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1	1624.1
2.5°	1630.5	1634.1	1631.2	1630.5	1629.8	1629.8	1629.8	1630.5	1633.3	1635.5	1634.1
5°	1651.1	1654.0	1652.6	1651.8	1651.1	1651.8	1650.4	1649.7	1651.8	1651.8	1651.1
7.5°	1676.8	1680.3	1678.9	1680.3	1681.0	1681.7	1678.2	1675.3	1674.6	1676.8	1675.3
10°	1711.6	1714.5	1715.2	1715.9	1717.3	1716.6	1712.3	1707.4	1706.6	1705.9	1705.2
12.5°	1750.8	1752.9	1753.6	1756.5	1758.6	1759.3	1754.3	1750.1	1742.9	1744.4	1741.5
15°	1794.9	1799.2	1798.5	1802.7	1808.4	1809.8	1804.9	1797.7	1791.3	1787.8	1785.6
17.5°	1849.0	1851.8	1850.4	1854.7	1861.8	1865.4	1861.1	1851.8	1845.4	1837.6	1833.3
20°	1913.0	1918.0	1919.4	1919.4	1925.8	1929.4	1923.0	1920.2	1910.2	1904.5	1900.9
22.5°	1985.6	1987.8	1992.0	1996.3	2002.7	2001.3	1999.2	1994.9	1985.6	1980.6	1975.0
25°	2067.5	2069.6	2080.3	2089.5	2091.7	2090.2	2087.4	2085.3	2076.7	2065.3	2061.1
27.5°	2162.8	2167.1	2181.3	2189.9	2189.9	2190.6	2184.9	2192.0	2173.5	2160.0	2158.6
30°	2282.4	2285.3	2297.4	2305.9	2301.6	2298.1	2296.6	2303.8	2283.8	2259.6	2253.9
32.5°	2400.5	2410.5	2421.2	2439.7	2424.7	2418.3	2416.9	2421.9	2399.1	2372.1	2364.2
35°	2527.2	2534.3	2554.3	2569.9	2556.4	2541.5	2547.9	2563.5	2536.5	2500.2	2498.8
37.5°	2667.4	2673.8	2699.5	2715.8	2705.9	2680.2	2690.9	2709.4	2682.4	2637.5	2628.3
40°	2813.3	2826.9	2858.9	2876.0	2859.6	2825.4	2845.4	2865.3	2841.1	2789.1	2768.5
42.5°	2977.0	2998.4	3044.6	3053.2	3021.9	2975.6	3010.5	3042.5	3025.4	2965.6	2957.8
45°	3168.5	3181.3	3238.2	3256.7	3213.3	3155.7	3199.1	3257.4	3244.6	3175.6	3160.6
47.5°	3382.7	3394.8	3453.9	3481.6	3426.8	3349.2	3427.5	3503.7	3495.8	3421.8	3414.7
50°	3636.0	3638.9	3720.7	3752.1	3697.3	3630.4	3700.1	3794.8	3763.4	3668.8	3667.4
52.5°	3913.6	3917.2	4020.4	4080.9	4050.3	3974.8	4057.4	4115.0	4035.3	3911.5	3902.2
55°	4154.2	4172.0	4312.9	4473.7	4515.7	4460.9	4485.8	4458.8	4262.3	4088.7	4061.6
57.5°	4252.4	4287.2	4501.5	4801.8	5075.1	5156.2	4964.1	4706.4	4352.7	4107.2	4080.9
60°	4012.5	4050.3	4382.6	4952.7	5650.1	6002.4	5462.3	4748.4	4147.0	3801.9	3760.6
62.5°	3213.3	3224.0	3712.9	4597.5	5985.4	6897.7	5672.2	4390.4	3548.5	3079.5	3063.1
64°	2312.3	2421.9	2940.0	4031.0	5838.7	7238.6	5551.2	3888.7	2882.4	2407.7	2330.8
65°	1729.4	1759.3	2369.9	3442.5	5580.4	7213.0	5316.4	3409.0	2387.0	1842.6	1757.2
67.5°	653.3	656.9	874.7	1715.9	3972.7	6206.0	4057.4	1854.7	1005.6	727.4	701.0
70°	271.2	276.1	321.0	577.2	1707.4	3984.8	1956.4	669.0	367.9	298.2	293.9
72.5°	198.6	201.4	214.9	256.2	525.2	1636.2	643.4	284.0	215.6	192.9	190.7
75°	155.9	157.3	167.2	188.6	244.8	453.3	267.6	195.0	164.4	148.0	146.6
77.5°	118.9	122.4	129.5	143.8	164.4	214.9	177.2	145.9	126.7	113.2	111.0
80°	81.8	86.1	99.6	105.3	110.3	139.5	121.0	110.3	98.9	82.6	77.6
82.5°	50.5	53.4	66.9	71.9	69.7	78.3	77.6	79.0	70.5	51.2	47.7
85°	26.3	27.8	36.3	37.7	34.9	32.0	39.9	46.3	43.4	29.2	28.5
87.5°	5.7	6.4	7.8	7.1	7.8	7.8	10.0	14.9	15.7	10.0	9.3
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)