

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: P528871

Luminaire Tested: **GALN-SA4A-730-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9888 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

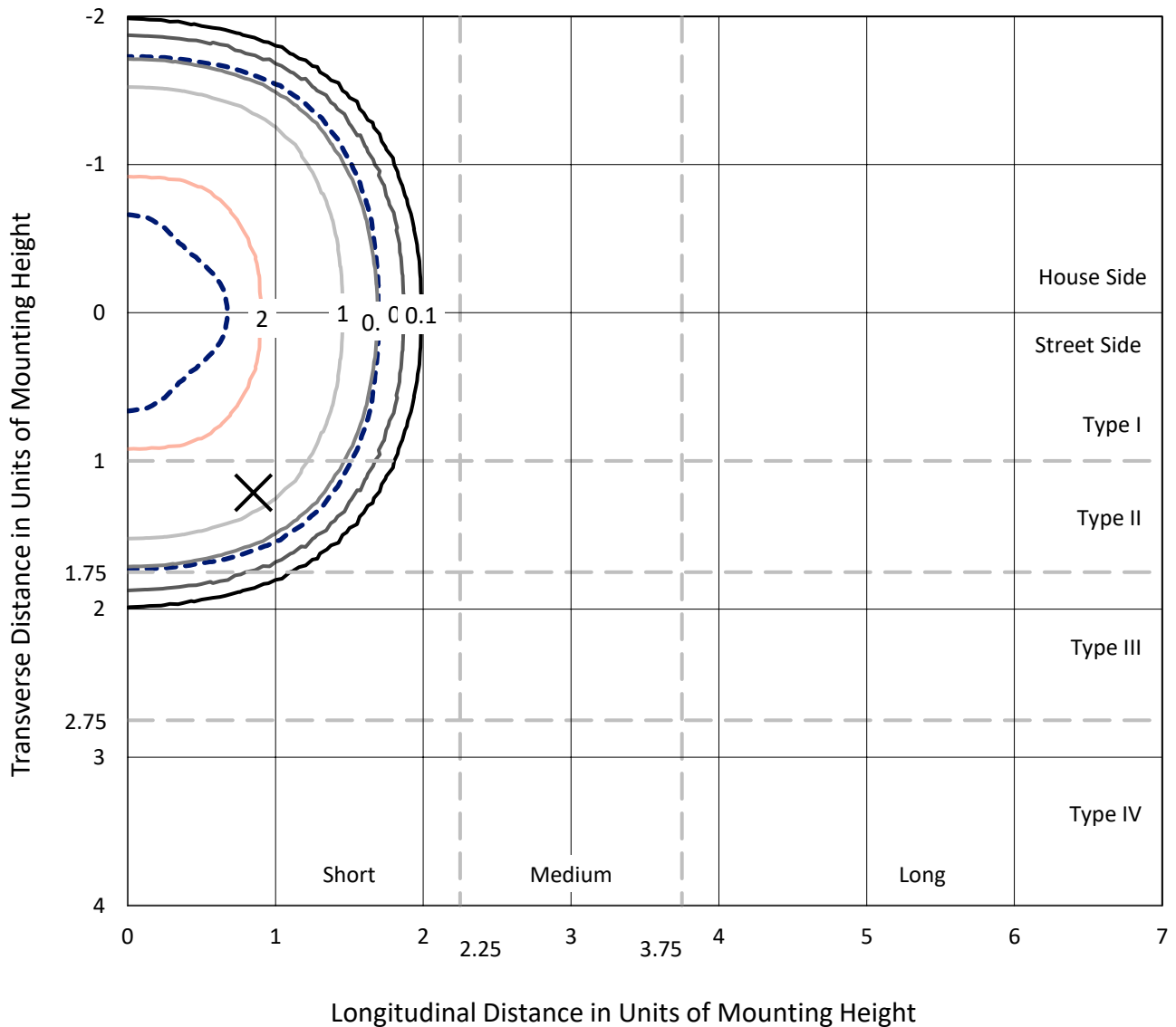
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

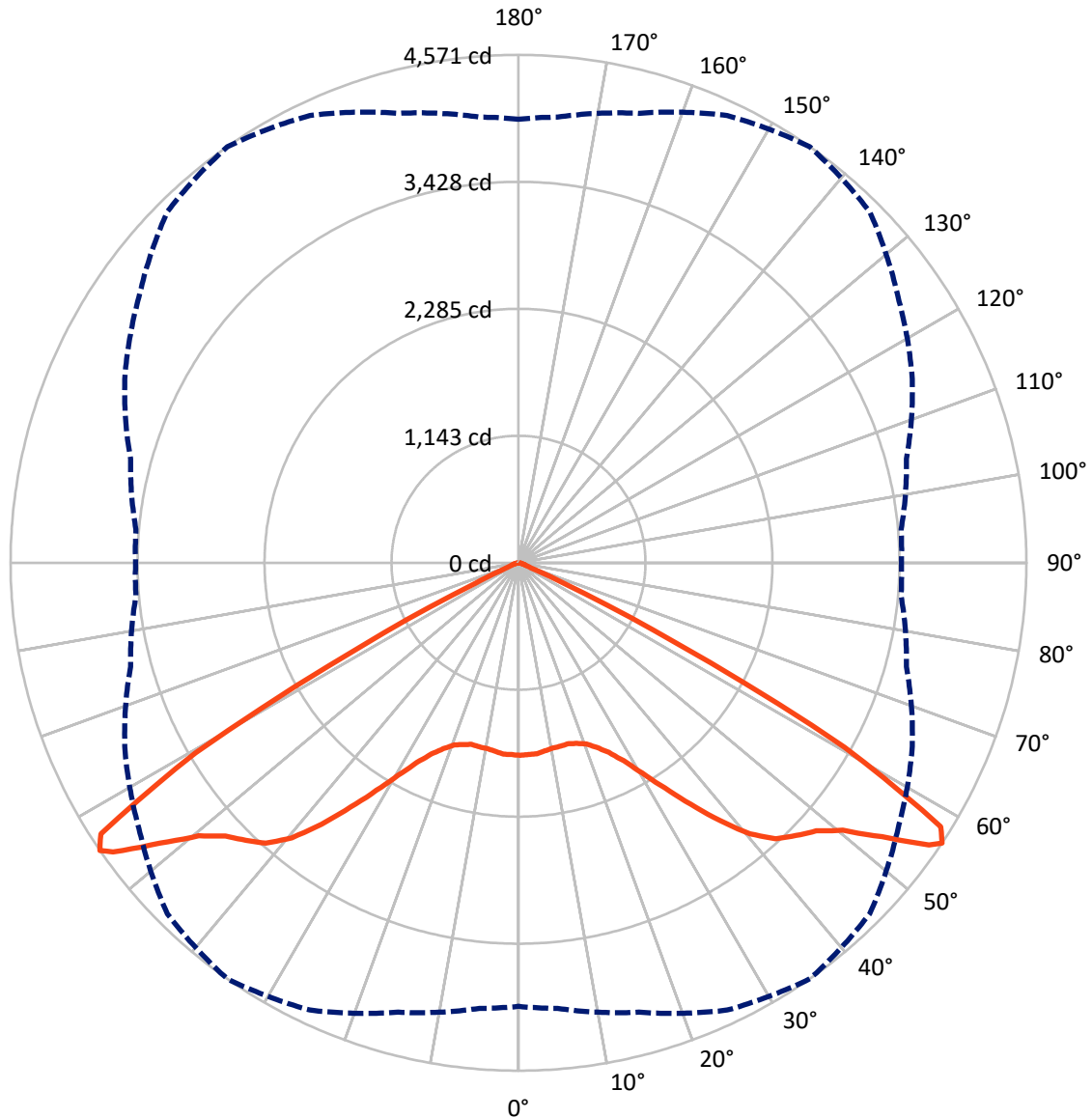
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4944.0	0.0	4944.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4944.0	0.0	4944.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9888.0	0.0	9888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	1.6
10°-20°	475.4	4.8
20°-30°	860.9	8.7
30°-40°	1596.4	16.1
40°-50°	2620.4	26.5
50°-60°	3375.8	34.1
60°-70°	744.0	7.5
70°-80°	43.2	0.4
80°-90°	9.1	0.1
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°	9888.0	100.0
0°-180°	9888.0	100.0

Coefficient of Utilization

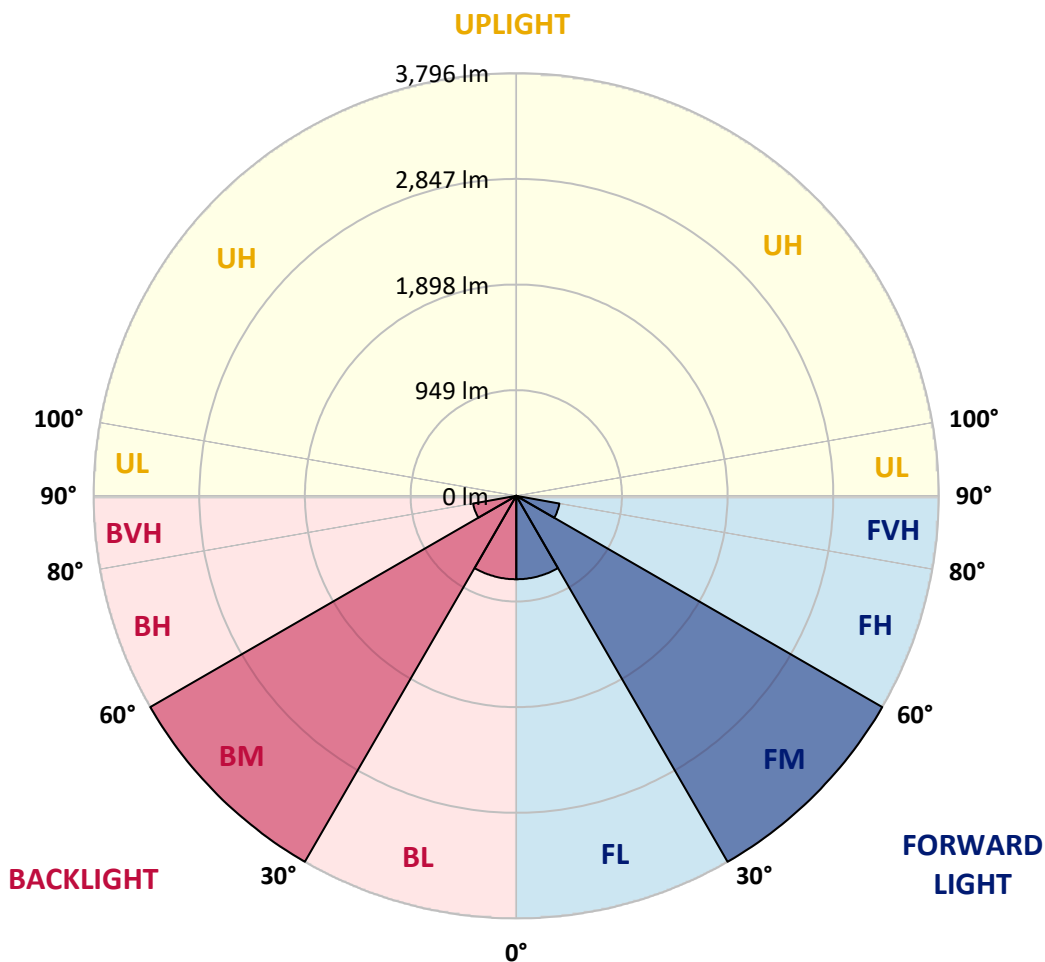


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.6	7.6			
FM (30°-60°)	3796.3	38.4			
FH (60°-80°)	393.6	4.0			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	749.6	7.6	B2/1000		
BM (30°-60°)	3796.3	38.4	B3/5000		
BH (60°-80°)	393.6	4.0	B1/500		G0/660
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1732.6	1732.6	1732.6	1732.6	1732.6	1732.6	1732.6	1732.6	1732.6	1732.6	1732.6
2.5°	1736.2	1736.2	1738.0	1739.8	1727.2	1721.8	1723.6	1720.0	1718.3	1723.6	1723.6
5°	1730.8	1730.8	1725.4	1727.2	1727.2	1711.1	1711.1	1714.7	1714.7	1703.9	1700.3
7.5°	1716.5	1712.9	1705.7	1714.7	1709.3	1709.3	1696.8	1687.8	1684.2	1691.4	1684.2
10°	1686.0	1687.8	1695.0	1698.5	1695.0	1705.7	1684.2	1671.7	1659.1	1653.8	1653.8
12.5°	1671.7	1682.4	1671.7	1680.6	1693.2	1684.2	1671.7	1662.7	1644.8	1637.6	1637.6
15°	1669.9	1677.0	1680.6	1693.2	1687.8	1691.4	1666.3	1655.5	1628.7	1616.1	1610.8
17.5°	1668.1	1677.0	1682.4	1705.7	1709.3	1711.1	1691.4	1659.1	1635.8	1623.3	1610.8
20°	1687.8	1691.4	1702.1	1725.4	1739.8	1764.8	1729.0	1695.0	1644.8	1630.5	1625.1
22.5°	1712.9	1730.8	1741.5	1766.6	1804.3	1825.8	1779.2	1736.2	1684.2	1666.3	1644.8
25°	1793.5	1789.9	1807.8	1859.8	1890.3	1906.4	1868.8	1806.1	1738.0	1716.5	1720.0
27.5°	1893.8	1897.4	1913.6	1970.9	2015.7	2040.8	1996.0	1913.6	1847.3	1811.4	1807.8
30°	2024.6	2021.1	2039.0	2116.0	2196.6	2234.3	2155.4	2058.7	1994.2	1947.6	1958.3
32.5°	2162.6	2164.4	2214.6	2284.4	2415.2	2488.7	2361.5	2243.2	2146.5	2114.2	2098.1
35°	2366.9	2375.8	2415.2	2522.7	2667.9	2762.8	2623.1	2481.5	2370.4	2311.3	2318.5
37.5°	2619.5	2610.5	2676.8	2793.3	2945.6	3015.5	2897.2	2736.0	2623.1	2583.7	2608.7
40°	2888.2	2897.2	2931.2	3037.0	3207.2	3253.8	3078.2	2990.4	2891.8	2872.1	2902.6
42.5°	3157.0	3151.6	3176.7	3271.7	3395.3	3363.1	3259.1	3207.2	3137.3	3097.9	3139.1
45°	3354.1	3345.1	3391.7	3456.2	3501.0	3440.1	3393.5	3375.6	3339.8	3296.8	3334.4
47.5°	3545.8	3538.6	3583.4	3601.4	3604.9	3524.3	3533.3	3565.5	3475.9	3386.3	3429.3
50°	3708.9	3696.3	3751.9	3791.3	3782.3	3653.3	3685.6	3653.3	3513.6	3407.8	3391.7
52.5°	3981.2	3986.6	4045.7	4117.4	4095.9	3988.4	3941.8	3794.9	3615.7	3520.7	3465.2
55°	4153.2	4126.3	4228.5	4456.0	4481.1	4370.0	4164.0	3947.2	3678.4	3561.9	3547.6
56°	3991.9	4026.0	4187.2	4441.7	4570.7	4468.5	4169.3	3909.5	3613.9	3456.2	3445.5
57.5°	3581.6	3563.7	3782.3	4129.9	4481.1	4438.1	4022.4	3640.8	3296.8	3119.4	3097.9
60°	2228.9	2280.9	2472.6	2902.6	3372.0	3393.5	2981.4	2653.5	2252.2	2094.5	2132.1
62.5°	872.6	827.8	947.8	1268.5	1591.0	1662.7	1506.8	1252.4	1028.4	872.6	861.8
65°	202.5	197.1	222.2	306.4	428.2	496.3	471.2	338.6	249.0	236.5	218.6
67.5°	114.7	114.7	109.3	109.3	120.0	127.2	121.8	120.0	125.4	130.8	129.0
70°	80.6	78.8	75.3	77.0	73.5	73.5	78.8	87.8	95.0	95.0	96.8
72.5°	48.4	48.4	48.4	53.8	53.8	53.8	59.1	66.3	68.1	66.3	64.5
75°	21.5	21.5	25.1	30.5	34.0	35.8	41.2	44.8	48.4	44.8	41.2
77.5°	5.4	5.4	9.0	12.5	16.1	19.7	26.9	32.3	34.0	32.3	26.9
80°	1.8	1.8	3.6	9.0	16.1	19.7	26.9	28.7	30.5	26.9	21.5
82.5°	1.8	1.8	3.6	9.0	12.5	16.1	21.5	25.1	26.9	23.3	21.5
85°	0.0	1.8	3.6	7.2	10.8	14.3	14.3	10.8	9.0	5.4	7.2
87.5°	0.0	0.0	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)