

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: P453585

Luminaire Tested: **GALN-SA4C-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21398 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

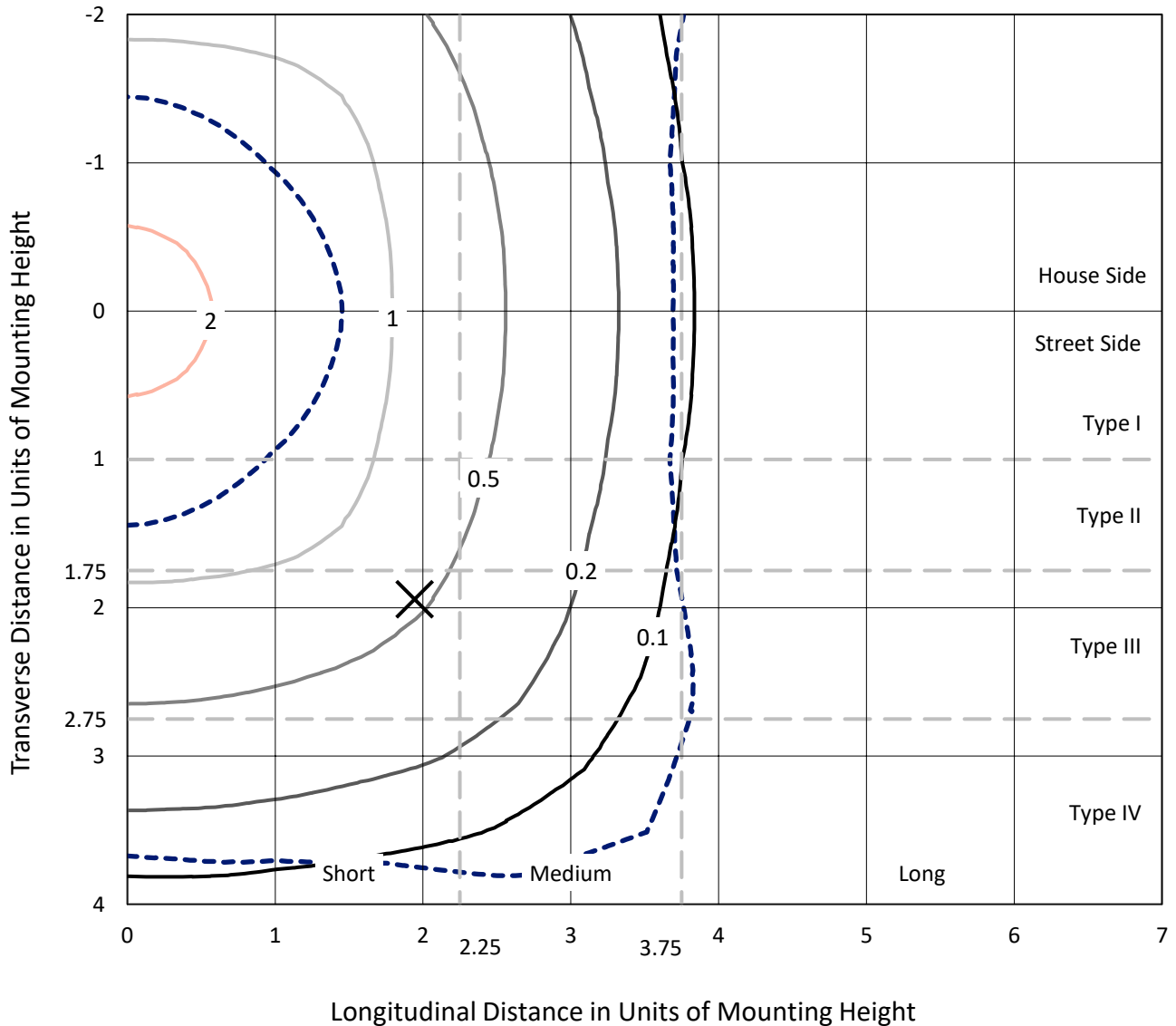
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

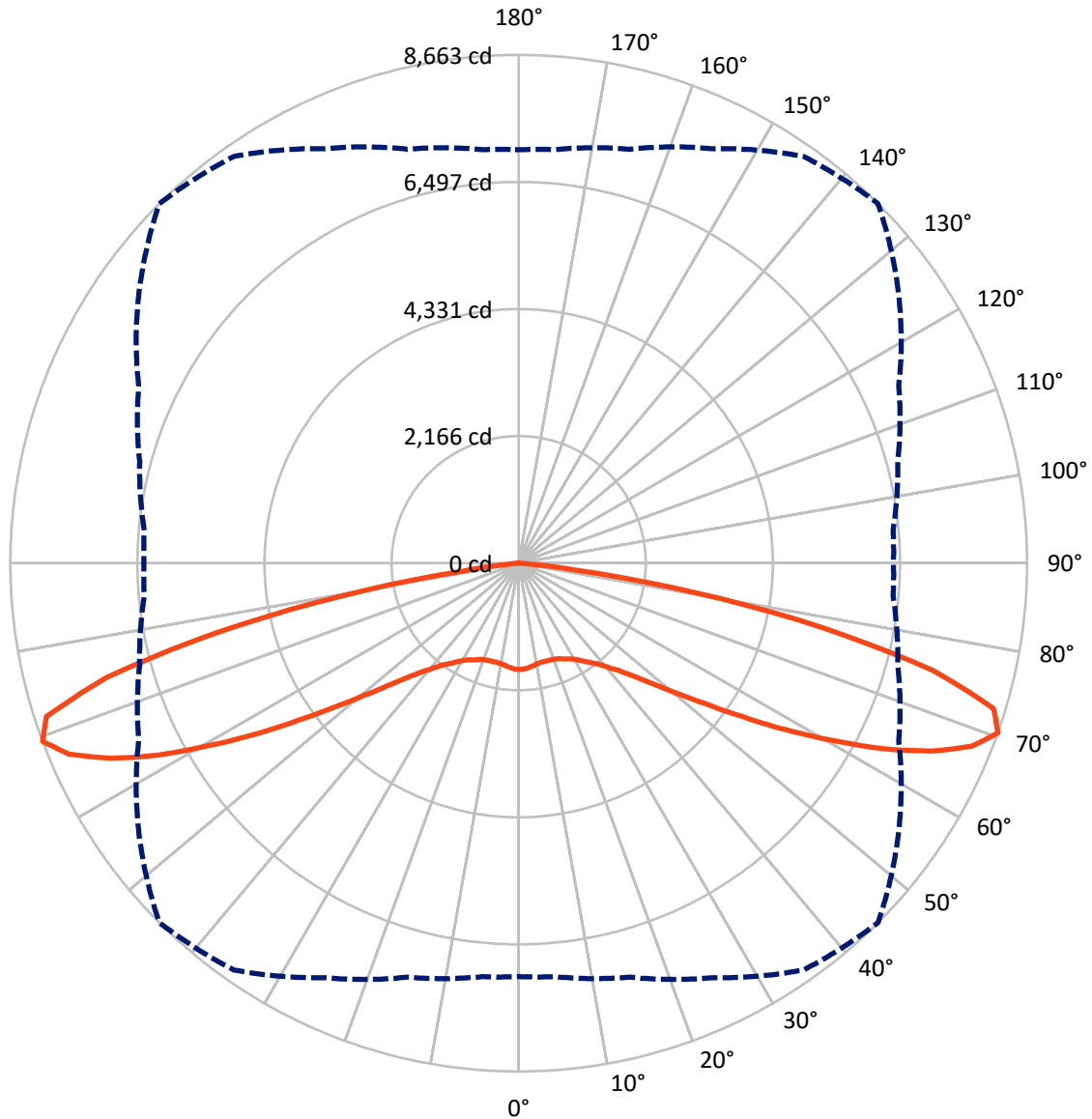
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10699.0	0.0	10699.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10699.0	0.0	10699.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21398.0	0.0	21398.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	0.8
10°-20°	496.0	2.3
20°-30°	845.0	3.9
30°-40°	1309.8	6.1
40°-50°	2204.6	10.3
50°-60°	4011.1	18.7
60°-70°	6790.8	31.7
70°-80°	5256.3	24.6
80°-90°	315.0	1.5
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°	21398.0	100.0
0°-180°	21398.0	100.0

Coefficient of Utilization



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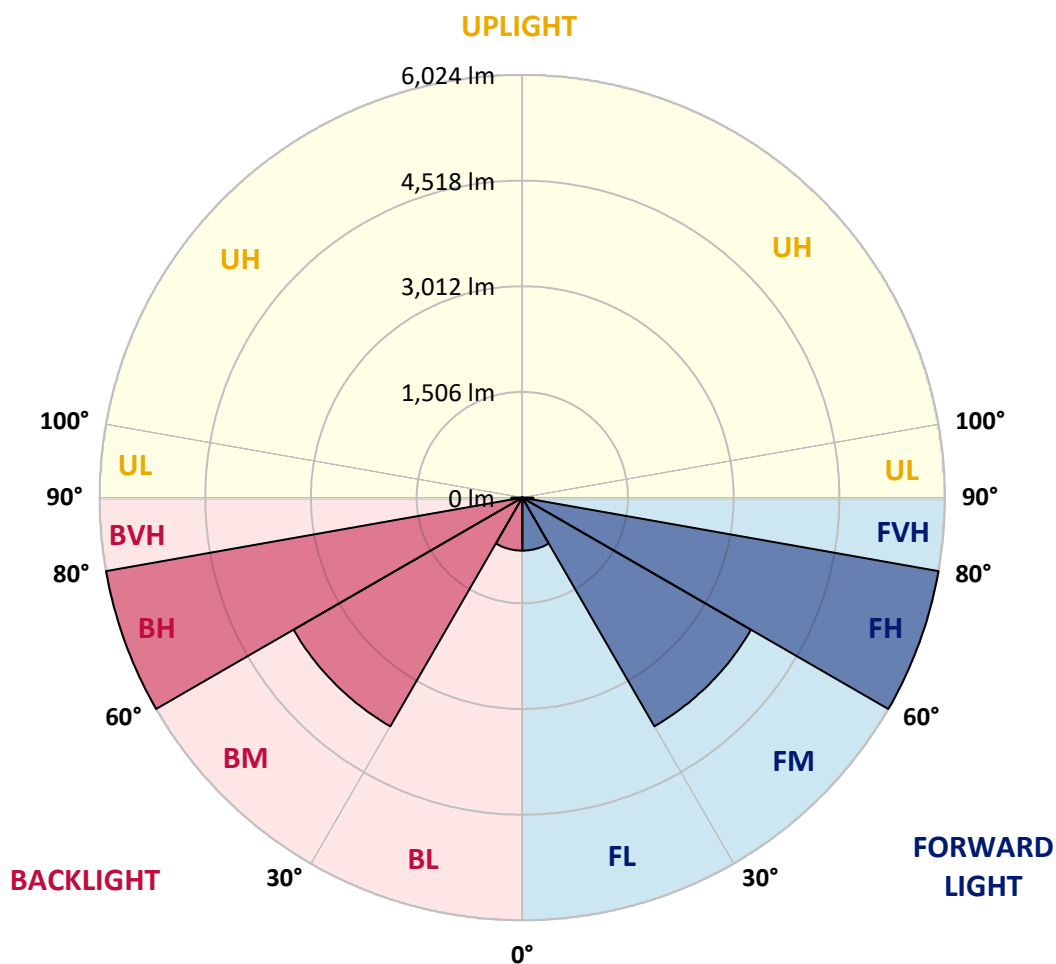
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	755.2	3.5			
FM (30°-60°)	3762.8	17.6			
FH (60°-80°)	6023.5	28.1			G3/7500
FVH (80°-90°)	157.5	0.7			G2/225
BL (0°-30°)	755.2	3.5	B2/1000		
BM (30°-60°)	3762.8	17.6	B3/5000		
BH (60°-80°)	6023.5	28.1	B5		G3/7500
BVH (80°-90°)	157.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6	1811.6
2.5°	1807.1	1808.2	1808.2	1806.0	1804.8	1804.8	1803.7	1803.7	1807.1	1808.2	1809.3
5°	1791.3	1791.3	1791.3	1790.1	1787.9	1787.9	1785.6	1785.6	1786.7	1790.1	1787.9
7.5°	1769.8	1772.0	1772.0	1767.5	1764.1	1764.1	1763.0	1764.1	1765.3	1768.7	1767.5
10°	1763.0	1764.1	1758.5	1750.6	1744.9	1741.5	1742.7	1744.9	1750.6	1752.8	1754.0
12.5°	1767.5	1767.5	1757.4	1746.1	1735.9	1731.4	1730.2	1738.1	1748.3	1755.1	1757.4
15°	1773.2	1770.9	1758.5	1743.8	1733.6	1732.5	1731.4	1737.0	1751.7	1765.3	1766.4
17.5°	1776.6	1775.4	1759.6	1741.5	1735.9	1735.9	1734.8	1739.3	1755.1	1772.0	1773.2
20°	1787.9	1784.5	1766.4	1747.2	1742.7	1744.9	1741.5	1747.2	1764.1	1784.5	1789.0
22.5°	1810.5	1807.1	1789.0	1769.8	1767.5	1767.5	1766.4	1772.0	1790.1	1811.6	1815.0
25°	1837.6	1834.2	1817.3	1803.7	1806.0	1810.5	1808.2	1809.3	1824.0	1842.1	1847.8
27.5°	1873.8	1868.1	1853.4	1842.1	1848.9	1848.9	1848.9	1847.8	1856.8	1873.8	1879.4
30°	1917.8	1915.6	1899.8	1898.6	1904.3	1898.6	1898.6	1899.8	1900.9	1916.7	1922.4
32.5°	1975.5	1971.0	1963.0	1960.8	1976.6	1981.1	1965.3	1950.6	1958.5	1974.3	1977.7
35°	2070.4	2063.6	2052.3	2039.9	2052.3	2073.8	2039.9	2028.6	2048.9	2070.4	2072.7
37.5°	2199.2	2195.8	2177.8	2155.2	2154.0	2176.6	2141.6	2140.5	2178.9	2204.9	2208.3
40°	2360.8	2364.2	2341.6	2320.2	2308.9	2326.9	2299.8	2310.0	2347.3	2376.7	2374.4
42.5°	2588.0	2575.6	2540.5	2520.2	2507.8	2501.0	2494.2	2510.0	2551.8	2583.5	2608.3
45°	2853.6	2849.1	2805.0	2780.1	2753.0	2742.8	2740.6	2768.8	2819.7	2858.1	2861.5
47.5°	3154.2	3144.0	3115.8	3089.8	3079.6	3067.2	3055.9	3077.4	3128.2	3155.3	3163.2
50°	3463.9	3466.1	3466.1	3461.6	3471.8	3474.0	3443.5	3451.4	3479.7	3477.4	3475.2
52.5°	3817.6	3830.0	3888.8	3894.4	3943.0	3975.8	3920.4	3887.7	3877.5	3816.5	3821.0
55°	4233.5	4244.8	4332.9	4421.1	4552.2	4607.6	4491.1	4389.4	4317.1	4224.4	4229.0
57.5°	4752.2	4757.9	4841.5	5011.0	5219.0	5348.9	5144.4	4943.2	4796.3	4708.1	4673.1
60°	5310.5	5316.1	5438.2	5645.0	5968.2	6126.4	5873.3	5544.4	5359.1	5224.6	5233.6
62.5°	5980.7	6003.3	6112.9	6397.7	6789.8	6967.3	6631.6	6192.0	5941.1	5773.8	5780.6
65°	6698.3	6736.7	6856.5	7169.6	7531.2	7722.2	7310.8	6803.4	6491.5	6286.9	6308.4
67.5°	7163.9	7197.8	7370.7	7716.5	8167.5	8325.7	7794.5	7203.5	6813.6	6569.5	6524.3
70°	7045.2	7073.5	7304.0	7794.5	8462.4	8662.5	7909.8	7144.7	6685.9	6404.5	6386.4
72.5°	6219.1	6160.4	6497.1	7201.2	8125.7	8461.3	7547.0	6525.4	5947.9	5658.6	5624.7
75°	4121.6	4249.3	4746.6	5576.1	6874.6	7290.5	6441.8	5239.3	4512.6	4271.9	4234.6
77.5°	1377.6	1476.0	1917.8	3161.0	4686.7	5311.6	4693.4	3426.6	2424.1	1952.9	1961.9
80°	365.0	360.5	466.7	869.1	2025.2	3076.2	2357.5	1160.6	635.1	460.0	436.2
82.5°	131.1	146.9	188.7	240.7	536.8	956.1	674.7	325.5	238.5	176.3	170.7
85°	57.6	56.5	81.4	96.1	134.5	178.6	158.2	137.9	120.9	80.2	74.6
87.5°	12.4	12.4	19.2	14.7	23.7	23.7	29.4	35.0	36.2	23.7	19.2
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)