

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: P941500

Luminaire Tested: **GALN-SB5A-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19931 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

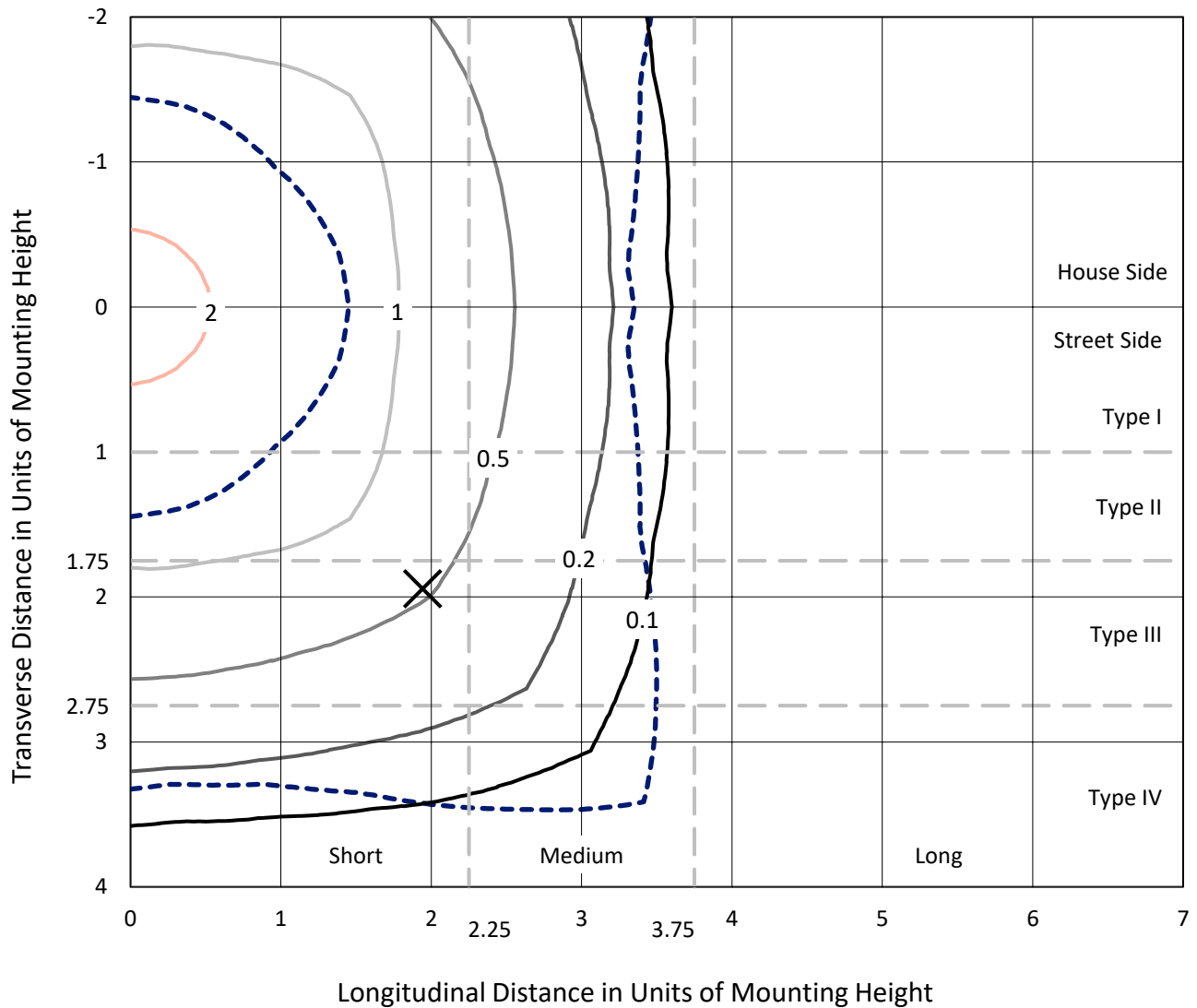
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

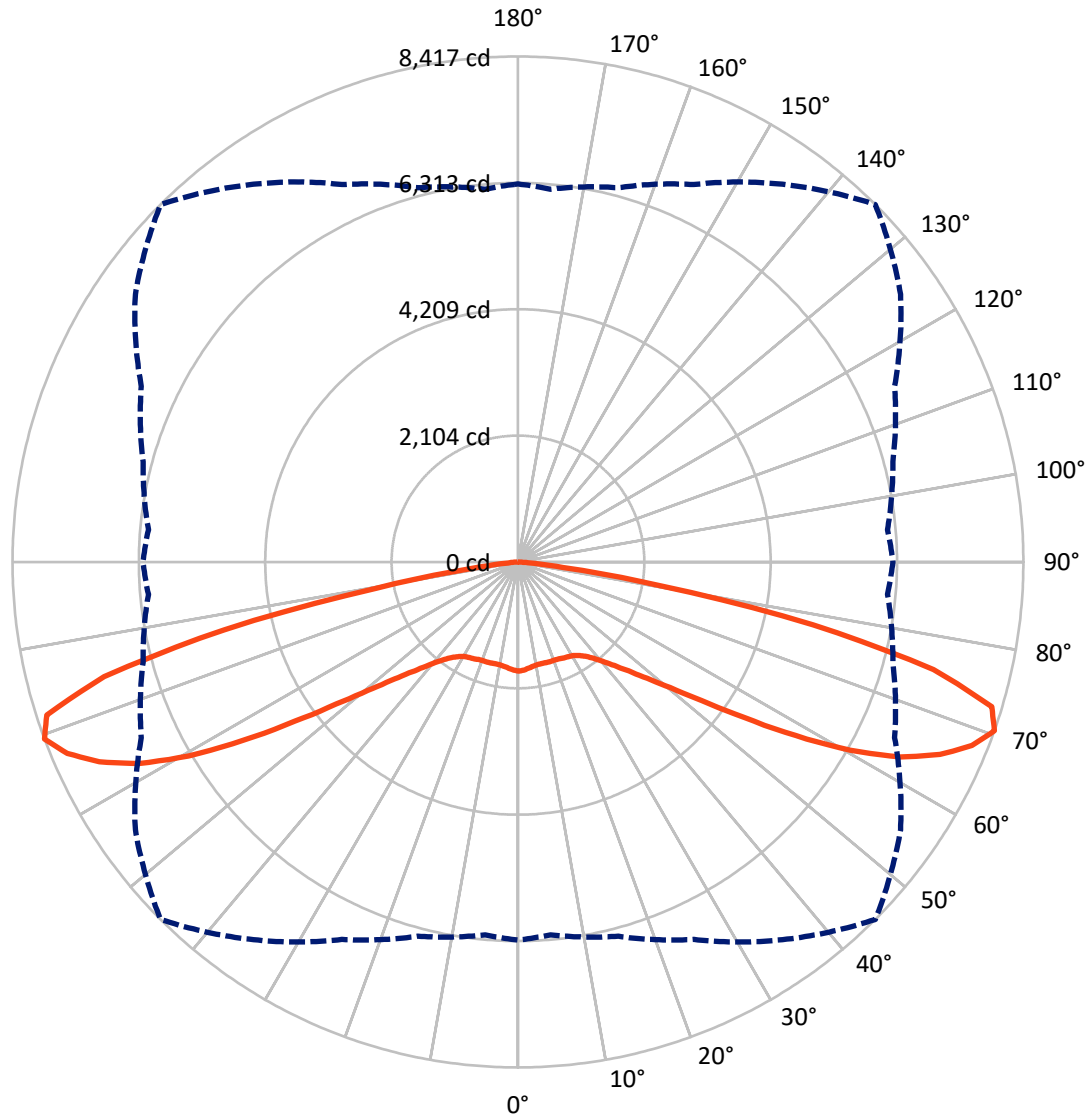
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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 | 9965.5 | 0.0 | 9965.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9965.5 | 0.0 | 9965.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19931.0 | 0.0 | 19931.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 169.1 | 0.8 |
| 10°-20° | 496.6 | 2.5 |
| 20°-30° | 826.4 | 4.1 |
| 30°-40° | 1249.8 | 6.3 |
| 40°-50° | 2076.8 | 10.4 |
| 50°-60° | 3918.9 | 19.7 |
| 60°-70° | 6617.3 | 33.2 |
| 70°-80° | 4348.2 | 21.8 |
| 80°-90° | 227.8 | 1.1 |
| 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° | 19931.0 | 100.0 |
| 0°-180° | 19931.0 | 100.0 |



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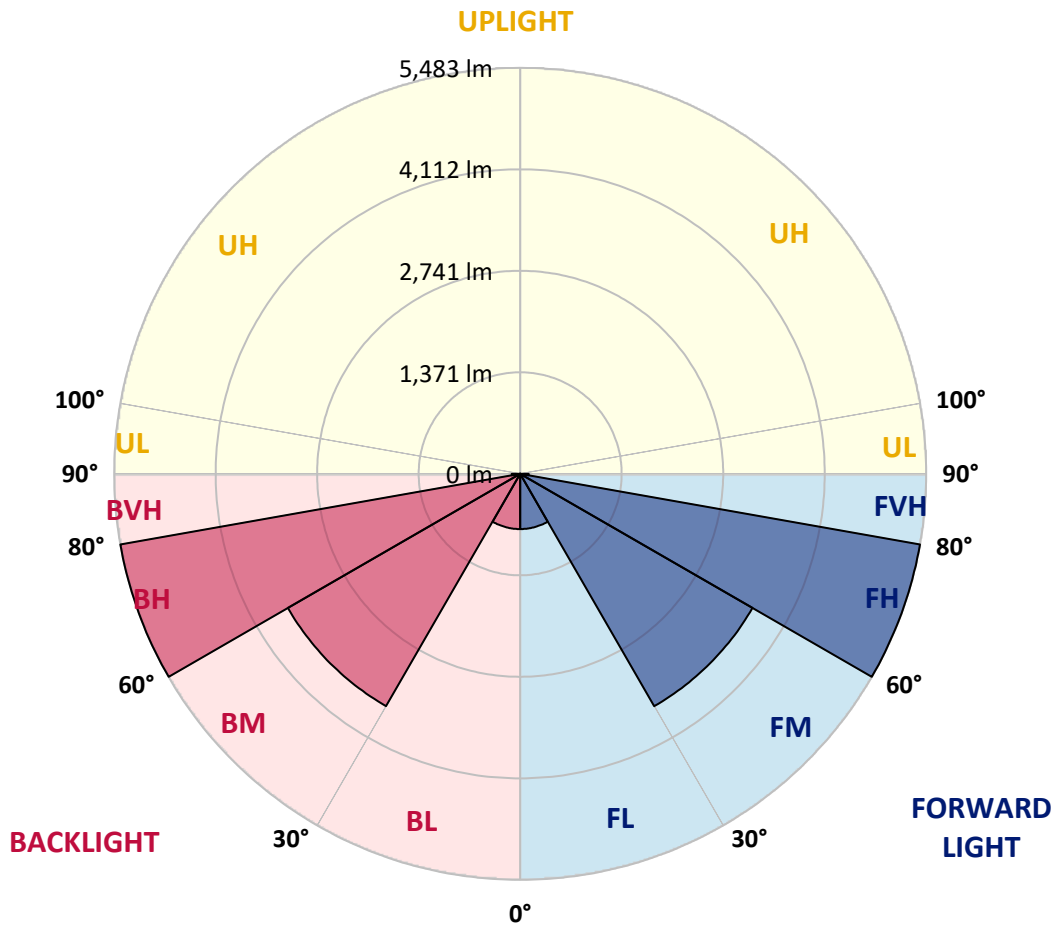
CATALOG NUMBER: GALN-SB5A-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 746.1 | 3.7 | | | |
| FM (30°-60°) | 3622.8 | 18.2 | | | |
| FH (60°-80°) | 5482.8 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 113.9 | 0.6 | | | G2/225 |
| BL (0°-30°) | 746.1 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 3622.8 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 5482.8 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 113.9 | 0.6 | | | 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° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1818.1 | 1818.1 | 1818.1 | 1818.1 | 1818.1 | 1818.1 | 1818.1 | 1818.1 | 1818.1 | 1818.1 |
| 2.5° | 1806.7 | 1811.9 | 1809.8 | 1805.7 | 1805.7 | 1802.6 | 1805.7 | 1807.7 | 1810.9 | 1812.9 |
| 5° | 1782.9 | 1787.0 | 1786.0 | 1782.9 | 1783.9 | 1780.8 | 1782.9 | 1786.0 | 1788.1 | 1789.1 |
| 7.5° | 1762.2 | 1766.3 | 1764.2 | 1759.1 | 1759.1 | 1756.0 | 1757.0 | 1760.1 | 1763.2 | 1764.2 |
| 10° | 1757.0 | 1761.1 | 1754.9 | 1746.6 | 1743.5 | 1739.4 | 1740.4 | 1743.5 | 1749.7 | 1752.8 |
| 12.5° | 1759.1 | 1762.2 | 1756.0 | 1743.5 | 1740.4 | 1736.3 | 1736.3 | 1739.4 | 1747.7 | 1751.8 |
| 15° | 1765.3 | 1768.4 | 1759.1 | 1745.6 | 1742.5 | 1739.4 | 1738.3 | 1742.5 | 1751.8 | 1759.1 |
| 17.5° | 1776.7 | 1779.8 | 1765.3 | 1746.6 | 1742.5 | 1743.5 | 1742.5 | 1745.6 | 1760.1 | 1773.6 |
| 20° | 1787.0 | 1789.1 | 1769.4 | 1746.6 | 1742.5 | 1743.5 | 1742.5 | 1748.7 | 1767.3 | 1786.0 |
| 22.5° | 1790.1 | 1792.2 | 1773.6 | 1753.9 | 1750.8 | 1751.8 | 1750.8 | 1757.0 | 1774.6 | 1793.2 |
| 25° | 1791.2 | 1794.3 | 1779.8 | 1764.2 | 1769.4 | 1771.5 | 1769.4 | 1770.5 | 1783.9 | 1800.5 |
| 27.5° | 1806.7 | 1810.9 | 1797.4 | 1783.9 | 1787.0 | 1786.0 | 1789.1 | 1792.2 | 1802.6 | 1819.1 |
| 30° | 1838.8 | 1841.9 | 1830.5 | 1817.1 | 1815.0 | 1807.7 | 1817.1 | 1827.4 | 1838.8 | 1853.3 |
| 32.5° | 1891.7 | 1897.9 | 1883.4 | 1868.9 | 1859.5 | 1855.4 | 1862.7 | 1880.3 | 1895.8 | 1911.3 |
| 35° | 1979.7 | 1983.9 | 1970.4 | 1943.5 | 1926.9 | 1926.9 | 1933.1 | 1955.9 | 1980.8 | 2000.4 |
| 37.5° | 2104.0 | 2109.2 | 2085.4 | 2053.3 | 2028.4 | 2028.4 | 2036.7 | 2060.5 | 2097.8 | 2125.8 |
| 40° | 2255.3 | 2262.5 | 2232.5 | 2199.3 | 2175.5 | 2171.4 | 2181.7 | 2208.7 | 2243.9 | 2279.1 |
| 42.5° | 2437.6 | 2445.9 | 2406.5 | 2377.5 | 2358.9 | 2358.9 | 2364.1 | 2388.9 | 2421.0 | 2464.5 |
| 45° | 2670.7 | 2685.2 | 2631.3 | 2602.3 | 2584.7 | 2588.9 | 2592.0 | 2613.7 | 2642.7 | 2692.5 |
| 47.5° | 2948.3 | 2962.8 | 2905.9 | 2875.8 | 2872.7 | 2892.4 | 2880.0 | 2895.5 | 2911.0 | 2968.0 |
| 50° | 3263.3 | 3288.1 | 3248.8 | 3246.7 | 3252.9 | 3289.2 | 3260.2 | 3268.5 | 3250.8 | 3287.1 |
| 52.5° | 3648.6 | 3684.9 | 3677.7 | 3690.1 | 3759.5 | 3834.1 | 3767.8 | 3738.8 | 3672.5 | 3683.9 |
| 55° | 4115.9 | 4170.8 | 4181.1 | 4255.7 | 4413.2 | 4565.5 | 4424.6 | 4307.5 | 4166.6 | 4140.7 |
| 57.5° | 4647.3 | 4690.8 | 4740.5 | 4892.8 | 5187.0 | 5457.4 | 5187.0 | 4928.1 | 4706.4 | 4653.5 |
| 60° | 5219.2 | 5273.0 | 5320.7 | 5545.5 | 5982.7 | 6362.9 | 5974.4 | 5563.1 | 5269.9 | 5198.4 |
| 62.5° | 5833.5 | 5902.9 | 5936.0 | 6185.7 | 6695.4 | 7149.2 | 6702.7 | 6204.4 | 5879.1 | 5802.4 |
| 65° | 6422.9 | 6479.9 | 6517.2 | 6783.5 | 7270.4 | 7725.1 | 7303.5 | 6812.5 | 6477.9 | 6377.4 |
| 67.5° | 6697.5 | 6728.6 | 6819.7 | 7121.2 | 7635.0 | 8154.0 | 7722.0 | 7153.3 | 6779.3 | 6603.2 |
| 70° | 6295.5 | 6232.3 | 6452.0 | 6934.7 | 7678.5 | 8417.2 | 7778.0 | 6920.2 | 6462.3 | 6176.4 |
| 72.5° | 4864.9 | 4756.1 | 5137.3 | 5963.0 | 7181.3 | 8249.3 | 7231.0 | 6009.6 | 5374.6 | 4794.4 |
| 75° | 2646.9 | 2523.6 | 3049.9 | 4094.1 | 5726.8 | 7150.2 | 5858.3 | 4211.2 | 3395.9 | 2627.2 |
| 77.5° | 746.9 | 700.3 | 1125.1 | 1980.8 | 3444.6 | 5020.3 | 3577.2 | 2024.3 | 1334.3 | 791.5 |
| 80° | 228.9 | 221.7 | 300.4 | 596.7 | 1462.8 | 2404.5 | 1405.8 | 604.0 | 382.3 | 241.4 |
| 82.5° | 135.7 | 124.3 | 149.2 | 217.6 | 372.9 | 755.2 | 362.6 | 226.9 | 182.3 | 122.2 |
| 85° | 77.7 | 72.5 | 88.1 | 105.7 | 125.4 | 160.6 | 104.6 | 107.7 | 97.4 | 65.3 |
| 87.5° | 32.1 | 29.0 | 34.2 | 33.2 | 29.0 | 37.3 | 28.0 | 33.2 | 39.4 | 25.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 1818.1 |
| 1811.9 |
| 1789.1 |
| 1764.2 |
| 1752.8 |
| 1752.8 |
| 1760.1 |
| 1773.6 |
| 1787.0 |
| 1793.2 |
| 1799.5 |
| 1815.0 |
| 1850.2 |
| 1905.1 |
| 1993.2 |
| 2115.4 |
| 2267.7 |
| 2461.4 |
| 2690.4 |
| 2951.4 |
| 3265.3 |
| 3645.5 |
| 4100.3 |
| 4616.2 |
| 5136.3 |
| 5740.3 |
| 6327.6 |
| 6605.3 |
| 6244.8 |
| 4938.4 |
| 2798.1 |
| 879.5 |
| 254.8 |
| 132.6 |
| 68.4 |
| 23.8 |
| 0.0 |

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