

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: P941460

Luminaire Tested: **GALN-SB5A-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941460
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-735-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22920 lumens
Efficiency: N/A
Efficacy: 161.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

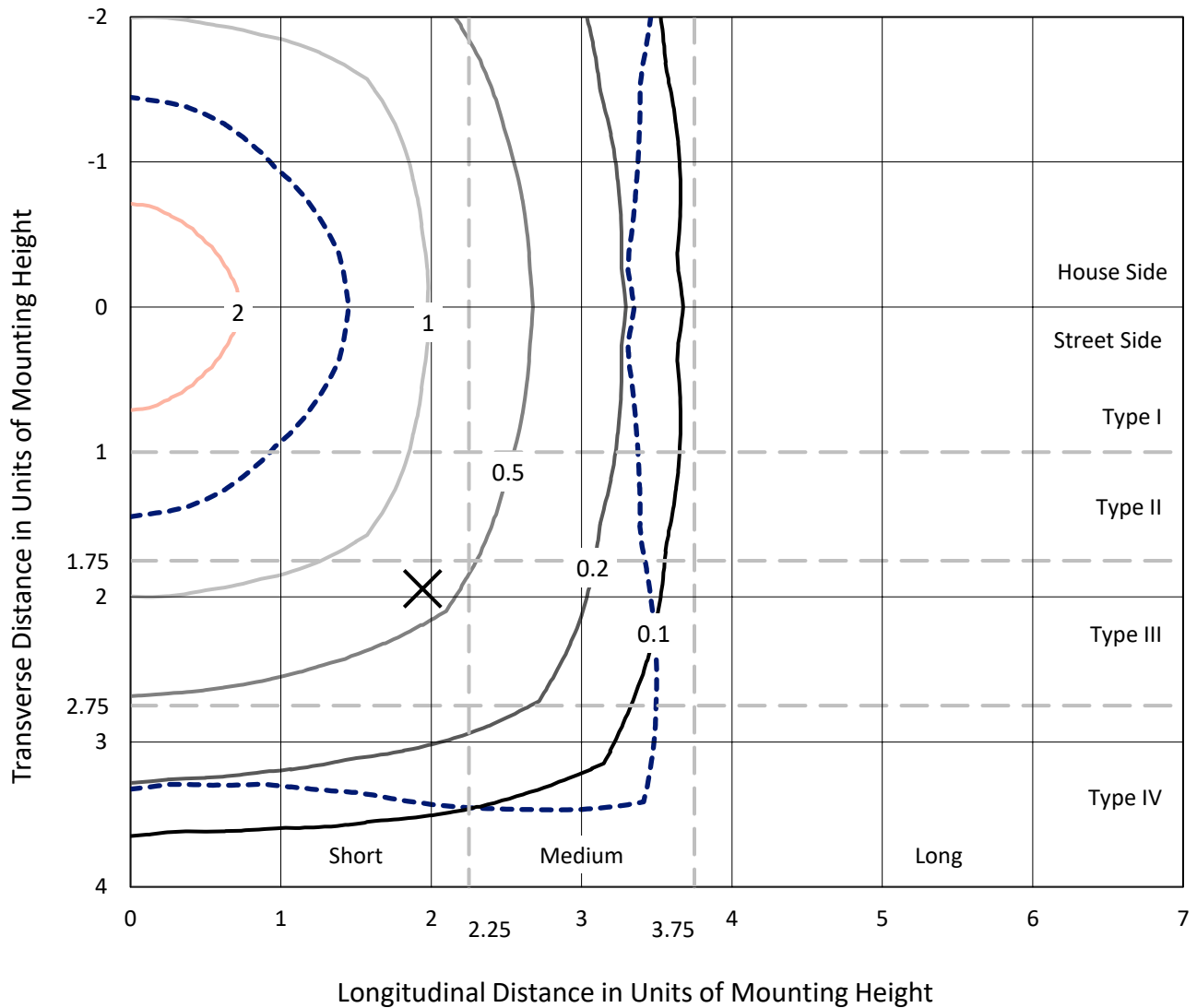
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

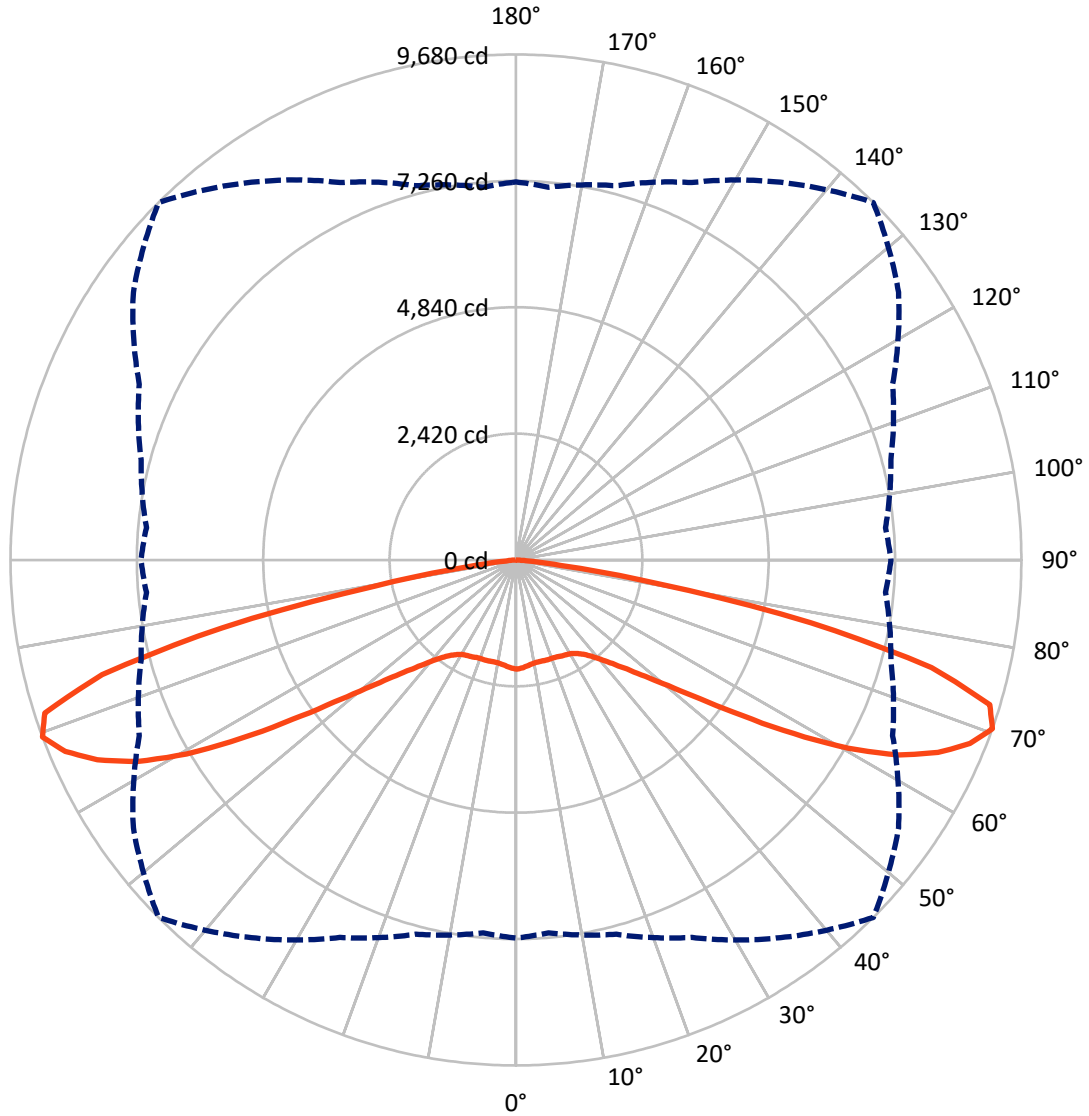
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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 | 11460.0 | 0.0 | 11460.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11460.0 | 0.0 | 11460.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 22920.0 | 0.0 | 22920.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 194.5 | 0.8 |
| 10°-20° | 571.1 | 2.5 |
| 20°-30° | 950.3 | 4.1 |
| 30°-40° | 1437.2 | 6.3 |
| 40°-50° | 2388.3 | 10.4 |
| 50°-60° | 4506.6 | 19.7 |
| 60°-70° | 7609.6 | 33.2 |
| 70°-80° | 5000.3 | 21.8 |
| 80°-90° | 262.0 | 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° | 22920.0 | 100.0 |
| 0°-180° | 22920.0 | 100.0 |



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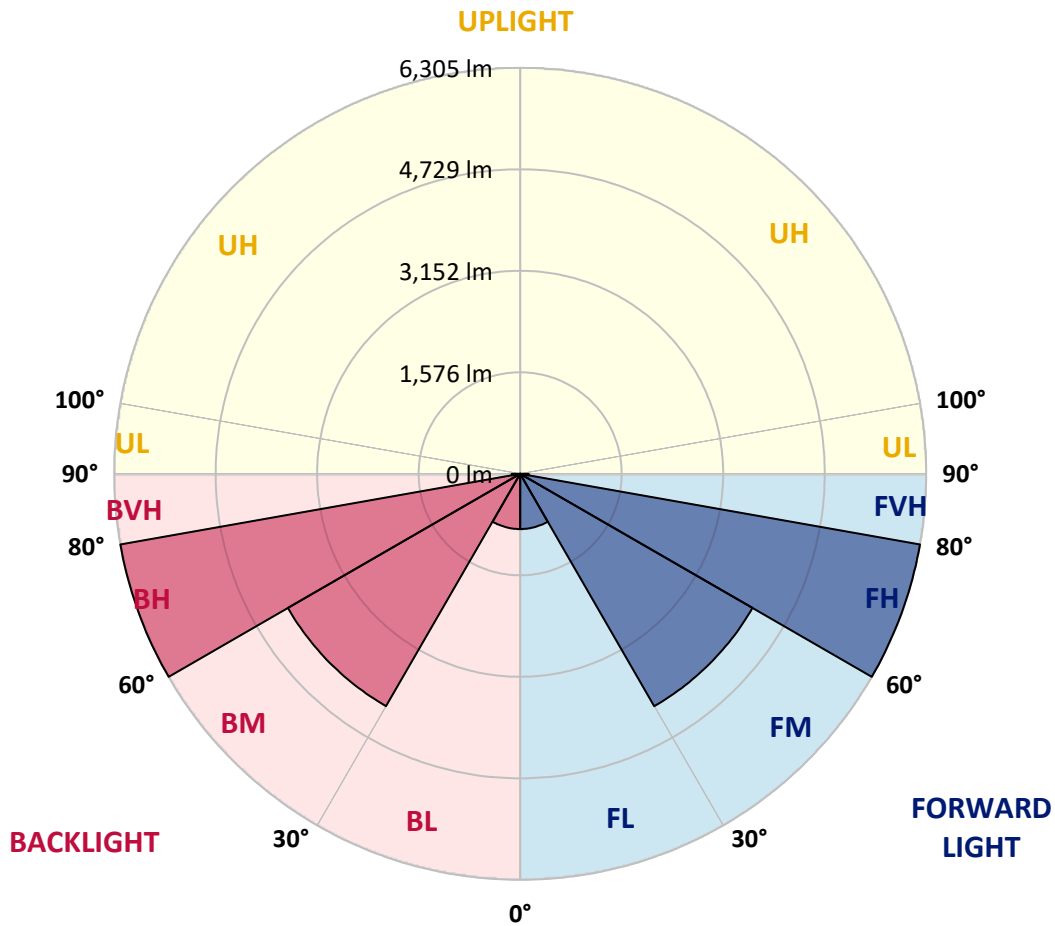
CATALOG NUMBER: GALN-SB5A-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 858.0 | 3.7 | | | |
| FM (30°-60°) | 4166.1 | 18.2 | | | |
| FH (60°-80°) | 6305.0 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 131.0 | 0.6 | | | G2/225 |
| BL (0°-30°) | 858.0 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 4166.1 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 6305.0 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 131.0 | 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° | 2090.8 | 2090.8 | 2090.8 | 2090.8 | 2090.8 | 2090.8 | 2090.8 | 2090.8 | 2090.8 | 2090.8 |
| 2.5° | 2077.7 | 2083.6 | 2081.2 | 2076.5 | 2076.5 | 2072.9 | 2076.5 | 2078.9 | 2082.4 | 2084.8 |
| 5° | 2050.3 | 2055.0 | 2053.8 | 2050.3 | 2051.5 | 2047.9 | 2050.3 | 2053.8 | 2056.2 | 2057.4 |
| 7.5° | 2026.4 | 2031.2 | 2028.8 | 2022.9 | 2022.9 | 2019.3 | 2020.5 | 2024.1 | 2027.6 | 2028.8 |
| 10° | 2020.5 | 2025.2 | 2018.1 | 2008.6 | 2005.0 | 2000.2 | 2001.4 | 2005.0 | 2012.1 | 2015.7 |
| 12.5° | 2022.9 | 2026.4 | 2019.3 | 2005.0 | 2001.4 | 1996.7 | 1996.7 | 2000.2 | 2009.8 | 2014.5 |
| 15° | 2030.0 | 2033.6 | 2022.9 | 2007.4 | 2003.8 | 2000.2 | 1999.0 | 2003.8 | 2014.5 | 2022.9 |
| 17.5° | 2043.1 | 2046.7 | 2030.0 | 2008.6 | 2003.8 | 2005.0 | 2003.8 | 2007.4 | 2024.1 | 2039.5 |
| 20° | 2055.0 | 2057.4 | 2034.8 | 2008.6 | 2003.8 | 2005.0 | 2003.8 | 2010.9 | 2032.4 | 2053.8 |
| 22.5° | 2058.6 | 2061.0 | 2039.5 | 2016.9 | 2013.3 | 2014.5 | 2013.3 | 2020.5 | 2040.7 | 2062.2 |
| 25° | 2059.8 | 2063.4 | 2046.7 | 2028.8 | 2034.8 | 2037.2 | 2034.8 | 2036.0 | 2051.5 | 2070.5 |
| 27.5° | 2077.7 | 2082.4 | 2066.9 | 2051.5 | 2055.0 | 2053.8 | 2057.4 | 2061.0 | 2072.9 | 2092.0 |
| 30° | 2114.6 | 2118.2 | 2105.1 | 2089.6 | 2087.2 | 2078.9 | 2089.6 | 2101.5 | 2114.6 | 2131.3 |
| 32.5° | 2175.3 | 2182.5 | 2165.8 | 2149.1 | 2138.4 | 2133.7 | 2142.0 | 2162.2 | 2180.1 | 2198.0 |
| 35° | 2276.6 | 2281.4 | 2265.9 | 2234.9 | 2215.9 | 2215.9 | 2223.0 | 2249.2 | 2277.8 | 2300.4 |
| 37.5° | 2419.6 | 2425.5 | 2398.1 | 2361.2 | 2332.6 | 2332.6 | 2342.1 | 2369.5 | 2412.4 | 2444.6 |
| 40° | 2593.5 | 2601.8 | 2567.3 | 2529.2 | 2501.8 | 2497.0 | 2508.9 | 2539.9 | 2580.4 | 2620.9 |
| 42.5° | 2803.2 | 2812.7 | 2767.4 | 2734.1 | 2712.6 | 2712.6 | 2718.6 | 2747.2 | 2784.1 | 2834.1 |
| 45° | 3071.2 | 3087.9 | 3026.0 | 2992.6 | 2972.3 | 2977.1 | 2980.7 | 3005.7 | 3039.1 | 3096.2 |
| 47.5° | 3390.5 | 3407.2 | 3341.7 | 3307.1 | 3303.5 | 3326.2 | 3311.9 | 3329.7 | 3347.6 | 3413.1 |
| 50° | 3752.7 | 3781.2 | 3736.0 | 3733.6 | 3740.7 | 3782.4 | 3749.1 | 3758.6 | 3738.4 | 3780.1 |
| 52.5° | 4195.8 | 4237.5 | 4229.2 | 4243.5 | 4323.3 | 4409.1 | 4332.8 | 4299.5 | 4223.2 | 4236.3 |
| 55° | 4733.1 | 4796.3 | 4808.2 | 4893.9 | 5075.0 | 5250.1 | 5088.1 | 4953.5 | 4791.5 | 4761.7 |
| 57.5° | 5344.3 | 5394.3 | 5451.5 | 5626.6 | 5964.9 | 6275.9 | 5964.9 | 5667.1 | 5412.2 | 5351.4 |
| 60° | 6001.9 | 6063.8 | 6118.6 | 6377.1 | 6879.9 | 7317.1 | 6870.3 | 6397.4 | 6060.2 | 5978.0 |
| 62.5° | 6708.3 | 6788.1 | 6826.3 | 7113.4 | 7699.5 | 8221.3 | 7707.8 | 7134.8 | 6760.7 | 6672.6 |
| 65° | 7386.2 | 7451.7 | 7494.6 | 7800.8 | 8360.7 | 8883.7 | 8398.8 | 7834.1 | 7449.3 | 7333.8 |
| 67.5° | 7701.9 | 7737.6 | 7842.5 | 8189.1 | 8780.0 | 9376.9 | 8880.1 | 8226.1 | 7796.0 | 7593.5 |
| 70° | 7239.6 | 7167.0 | 7419.5 | 7974.7 | 8830.1 | 9679.5 | 8944.4 | 7958.0 | 7431.5 | 7102.6 |
| 72.5° | 5594.4 | 5469.3 | 5907.8 | 6857.2 | 8258.2 | 9486.5 | 8315.4 | 6910.8 | 6180.6 | 5513.4 |
| 75° | 3043.8 | 2902.1 | 3507.2 | 4708.1 | 6585.6 | 8222.5 | 6736.9 | 4842.7 | 3905.1 | 3021.2 |
| 77.5° | 858.9 | 805.3 | 1293.8 | 2277.8 | 3961.1 | 5773.1 | 4113.6 | 2327.8 | 1534.4 | 910.2 |
| 80° | 263.3 | 254.9 | 345.5 | 686.2 | 1682.1 | 2765.1 | 1616.6 | 694.5 | 439.6 | 277.6 |
| 82.5° | 156.1 | 143.0 | 171.5 | 250.2 | 428.9 | 868.5 | 417.0 | 260.9 | 209.7 | 140.6 |
| 85° | 89.3 | 83.4 | 101.3 | 121.5 | 144.1 | 184.7 | 120.3 | 123.9 | 112.0 | 75.1 |
| 87.5° | 36.9 | 33.4 | 39.3 | 38.1 | 33.4 | 42.9 | 32.2 | 38.1 | 45.3 | 29.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 2090.8 |
| 2083.6 |
| 2057.4 |
| 2028.8 |
| 2015.7 |
| 2015.7 |
| 2024.1 |
| 2039.5 |
| 2055.0 |
| 2062.2 |
| 2069.3 |
| 2087.2 |
| 2127.7 |
| 2190.8 |
| 2292.1 |
| 2432.7 |
| 2607.8 |
| 2830.6 |
| 3093.9 |
| 3394.1 |
| 3755.0 |
| 4192.3 |
| 4715.2 |
| 5308.5 |
| 5906.6 |
| 6601.1 |
| 7276.6 |
| 7595.9 |
| 7181.3 |
| 5679.0 |
| 3217.8 |
| 1011.4 |
| 293.1 |
| 152.5 |
| 78.6 |
| 27.4 |
| 0.0 |

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