

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: P949093

Luminaire Tested: **GALN-SB3D-950-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-950-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22243 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

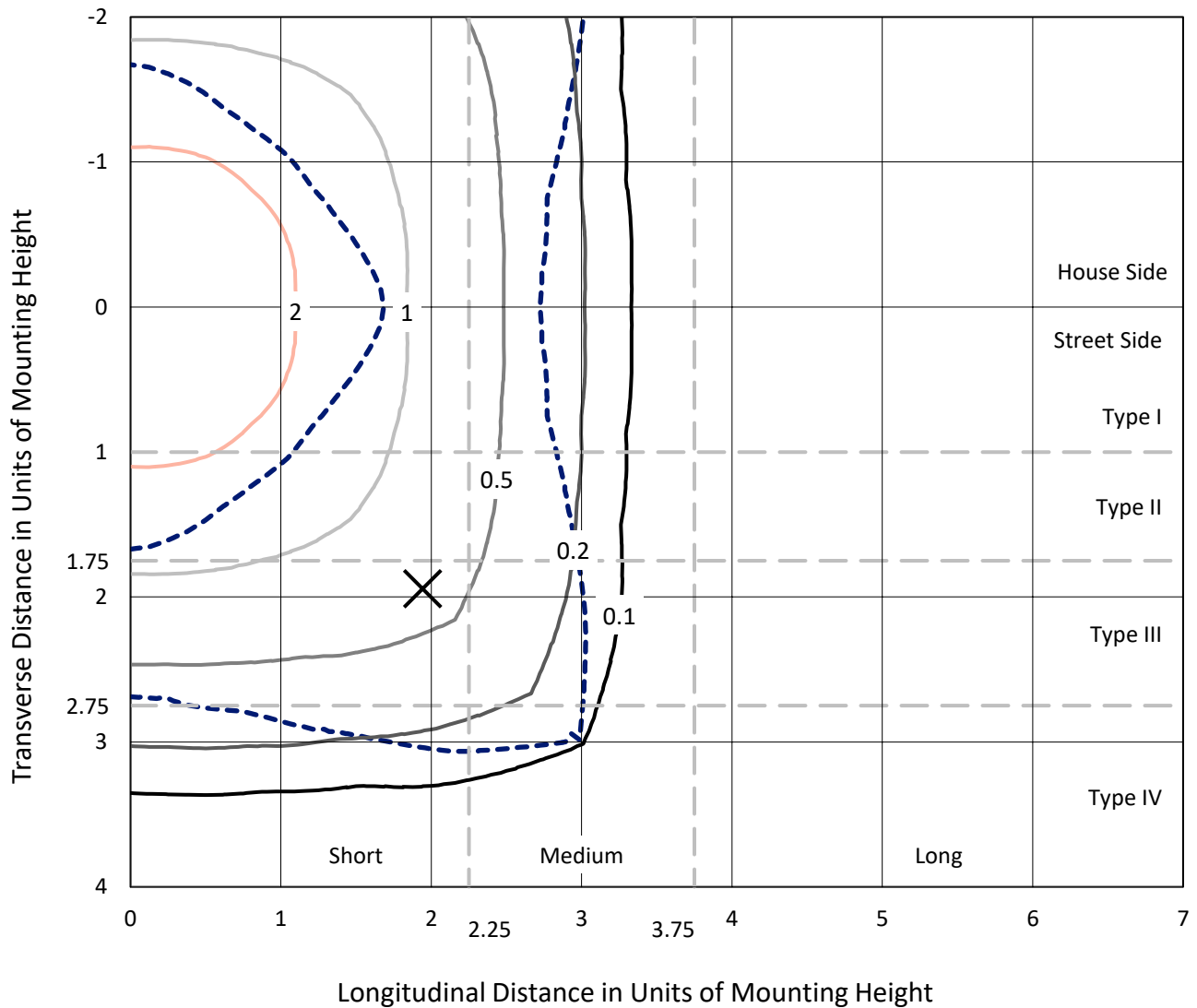
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

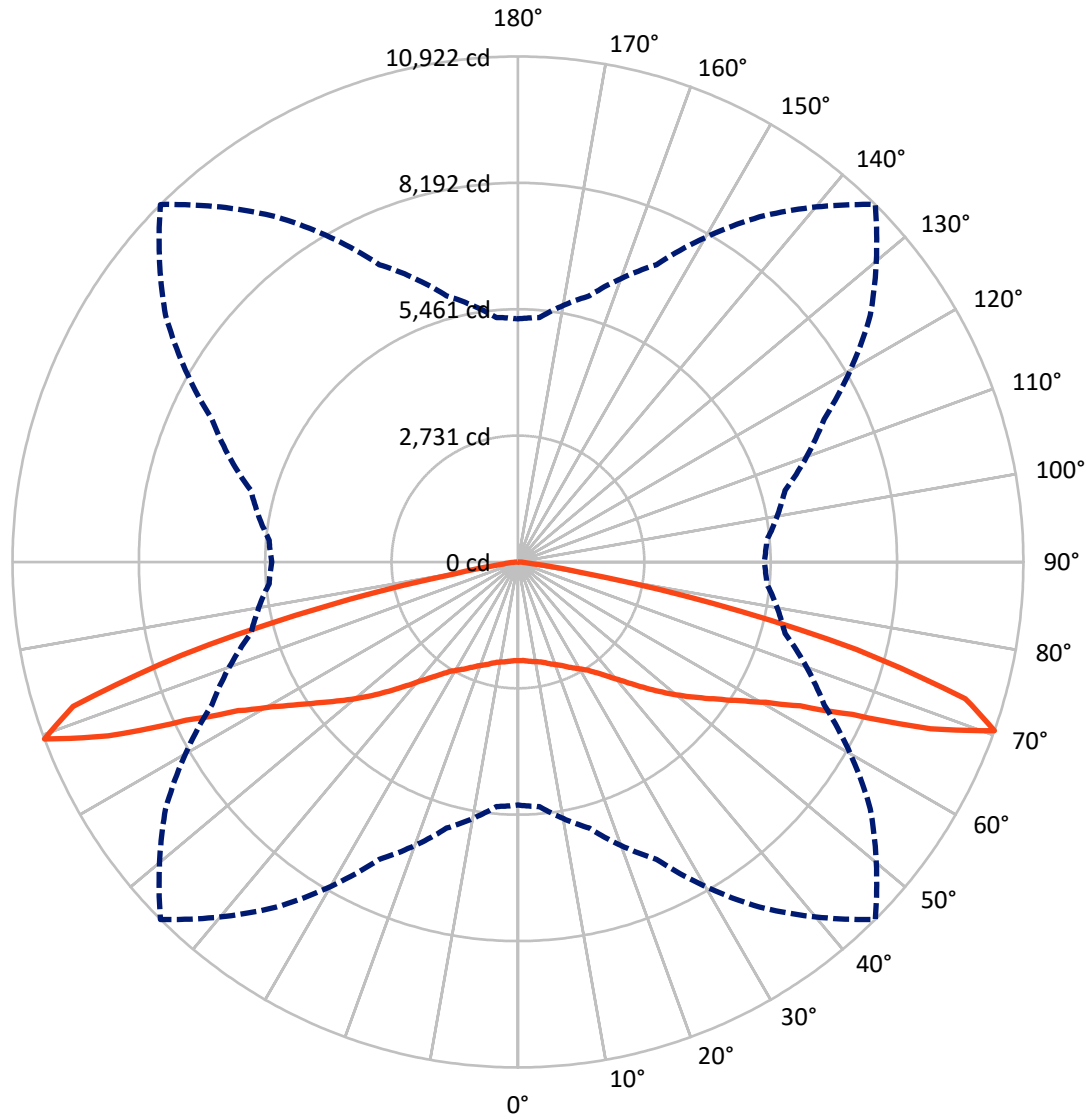
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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 | 11121.5 | 0.0 | 11121.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11121.5 | 0.0 | 11121.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 22243.0 | 0.0 | 22243.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 207.0 | 0.9 |
| 10°-20° | 641.9 | 2.9 |
| 20°-30° | 1147.1 | 5.2 |
| 30°-40° | 1859.4 | 8.4 |
| 40°-50° | 3028.7 | 13.6 |
| 50°-60° | 4617.7 | 20.8 |
| 60°-70° | 6869.6 | 30.9 |
| 70°-80° | 3744.2 | 16.8 |
| 80°-90° | 127.5 | 0.6 |
| 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° | 22243.0 | 100.0 |
| 0°-180° | 22243.0 | 100.0 |



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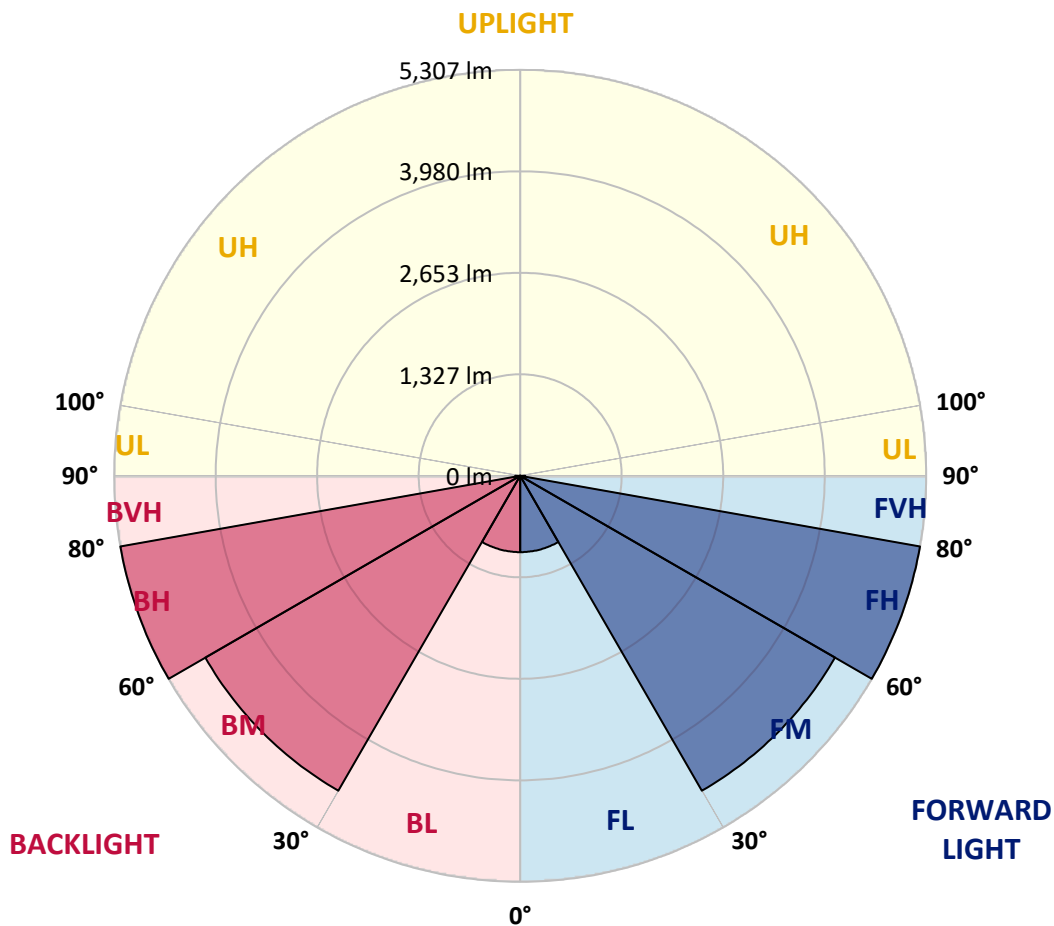
CATALOG NUMBER: GALN-SB3D-950-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 998.0 | 4.5 | | | |
| FM (30°-60°) | 4752.9 | 21.4 | | | |
| FH (60°-80°) | 5306.9 | 23.9 | | | G3/7500 |
| FVH (80°-90°) | 63.8 | 0.3 | | | G1/100 |
| BL (0°-30°) | 998.0 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 4752.9 | 21.4 | B3/5000 | | |
| BH (60°-80°) | 5306.9 | 23.9 | B5 | | G3/7500 |
| BVH (80°-90°) | 63.8 | 0.3 | | | G1/100 |
| 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° | 2130.6 | 2130.6 | 2130.6 | 2130.6 | 2130.6 | 2130.6 | 2130.6 | 2130.6 | 2130.6 | 2130.6 |
| 2.5° | 2140.7 | 2142.9 | 2138.5 | 2136.2 | 2134.0 | 2130.6 | 2131.8 | 2137.3 | 2141.8 | 2140.7 |
| 5° | 2158.6 | 2160.8 | 2157.4 | 2156.3 | 2151.9 | 2150.7 | 2150.7 | 2156.3 | 2159.7 | 2157.4 |
| 7.5° | 2178.7 | 2182.0 | 2176.4 | 2175.3 | 2173.1 | 2170.9 | 2169.7 | 2175.3 | 2178.7 | 2178.7 |
| 10° | 2197.7 | 2201.0 | 2196.5 | 2193.2 | 2191.0 | 2191.0 | 2188.7 | 2193.2 | 2198.8 | 2197.7 |
| 12.5° | 2217.8 | 2220.0 | 2215.5 | 2213.3 | 2213.3 | 2216.6 | 2213.3 | 2215.5 | 2220.0 | 2217.8 |
| 15° | 2242.3 | 2243.4 | 2242.3 | 2245.7 | 2251.3 | 2262.4 | 2252.4 | 2250.1 | 2252.4 | 2246.8 |
| 17.5° | 2275.8 | 2278.1 | 2282.5 | 2290.3 | 2298.2 | 2318.3 | 2300.4 | 2294.8 | 2294.8 | 2283.6 |
| 20° | 2317.1 | 2320.5 | 2327.2 | 2340.6 | 2350.6 | 2369.6 | 2351.8 | 2343.9 | 2340.6 | 2326.1 |
| 22.5° | 2360.7 | 2366.3 | 2376.3 | 2394.2 | 2412.1 | 2429.9 | 2412.1 | 2398.7 | 2388.6 | 2369.6 |
| 25° | 2410.9 | 2417.6 | 2433.3 | 2462.3 | 2486.9 | 2512.6 | 2491.3 | 2464.5 | 2444.4 | 2417.6 |
| 27.5° | 2482.4 | 2490.2 | 2509.2 | 2544.9 | 2576.2 | 2598.5 | 2578.4 | 2543.8 | 2515.9 | 2483.5 |
| 30° | 2582.9 | 2590.7 | 2613.1 | 2651.0 | 2672.2 | 2686.8 | 2673.4 | 2646.6 | 2613.1 | 2576.2 |
| 32.5° | 2712.4 | 2722.5 | 2747.1 | 2782.8 | 2787.3 | 2789.5 | 2785.0 | 2771.6 | 2747.1 | 2702.4 |
| 35° | 2876.6 | 2887.8 | 2915.7 | 2944.7 | 2940.3 | 2944.7 | 2938.0 | 2933.6 | 2915.7 | 2864.3 |
| 37.5° | 3077.6 | 3091.0 | 3120.0 | 3142.4 | 3131.2 | 3125.6 | 3126.7 | 3127.9 | 3117.8 | 3060.9 |
| 40° | 3311.0 | 3328.9 | 3350.1 | 3373.5 | 3354.5 | 3337.8 | 3349.0 | 3357.9 | 3349.0 | 3290.9 |
| 42.5° | 3551.1 | 3576.8 | 3599.1 | 3632.6 | 3617.0 | 3595.7 | 3611.4 | 3621.4 | 3602.4 | 3539.9 |
| 45° | 3818.0 | 3842.5 | 3871.6 | 3921.8 | 3910.7 | 3888.3 | 3910.7 | 3912.9 | 3880.5 | 3806.8 |
| 47.5° | 4093.8 | 4119.5 | 4163.0 | 4230.0 | 4225.6 | 4201.0 | 4230.0 | 4214.4 | 4173.1 | 4084.9 |
| 50° | 4355.1 | 4390.8 | 4457.8 | 4551.6 | 4560.6 | 4530.4 | 4569.5 | 4539.4 | 4470.1 | 4359.6 |
| 52.5° | 4600.8 | 4638.7 | 4744.8 | 4872.1 | 4904.5 | 4865.4 | 4917.9 | 4865.4 | 4761.6 | 4619.8 |
| 55° | 4858.7 | 4901.2 | 5027.3 | 5193.7 | 5258.5 | 5229.5 | 5278.6 | 5199.3 | 5051.9 | 4879.9 |
| 57.5° | 5162.5 | 5188.2 | 5338.9 | 5536.6 | 5646.0 | 5652.7 | 5675.0 | 5541.0 | 5362.4 | 5166.9 |
| 60° | 5491.9 | 5527.6 | 5691.8 | 5928.5 | 6101.6 | 6157.4 | 6134.0 | 5935.2 | 5727.5 | 5503.1 |
| 62.5° | 5914.0 | 5953.1 | 6149.6 | 6433.3 | 6706.9 | 6845.3 | 6753.8 | 6465.6 | 6208.8 | 5939.7 |
| 65° | 6263.5 | 6307.1 | 6662.2 | 7168.0 | 7666.1 | 7944.2 | 7714.1 | 7183.7 | 6721.4 | 6341.7 |
| 67.5° | 6010.0 | 6063.6 | 6620.9 | 7550.0 | 8788.4 | 9618.1 | 8830.8 | 7663.9 | 6758.2 | 6243.4 |
| 70° | 5252.9 | 5303.2 | 5953.1 | 7088.8 | 9104.4 | 10922.4 | 9294.2 | 7297.6 | 5974.3 | 5398.1 |
| 72.5° | 3487.4 | 3649.4 | 4307.1 | 5669.4 | 8129.5 | 10107.2 | 8209.9 | 5554.4 | 3995.5 | 3479.6 |
| 75° | 1156.9 | 1286.4 | 1735.3 | 2939.1 | 5445.0 | 7558.9 | 5183.7 | 2600.8 | 1374.6 | 989.4 |
| 77.5° | 291.5 | 336.1 | 463.4 | 840.9 | 2172.0 | 4303.7 | 1955.3 | 686.8 | 374.1 | 261.3 |
| 80° | 141.8 | 156.3 | 223.3 | 280.3 | 543.8 | 1367.9 | 510.3 | 263.5 | 176.4 | 136.2 |
| 82.5° | 78.2 | 79.3 | 126.2 | 158.6 | 202.1 | 354.0 | 209.9 | 154.1 | 101.6 | 82.6 |
| 85° | 48.0 | 46.9 | 67.0 | 84.9 | 84.9 | 126.2 | 100.5 | 84.9 | 58.1 | 51.4 |
| 87.5° | 19.0 | 19.0 | 24.6 | 26.8 | 23.5 | 32.4 | 25.7 | 27.9 | 22.3 | 21.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 2130.6 |
| 2141.8 |
| 2158.6 |
| 2178.7 |
| 2197.7 |
| 2216.6 |
| 2246.8 |
| 2283.6 |
| 2326.1 |
| 2368.5 |
| 2416.5 |
| 2482.4 |
| 2576.2 |
| 2703.5 |
| 2864.3 |
| 3060.9 |
| 3290.9 |
| 3544.4 |
| 3814.6 |
| 4079.3 |
| 4357.3 |
| 4606.4 |
| 4856.5 |
| 5140.1 |
| 5467.3 |
| 5892.8 |
| 6279.2 |
| 6166.4 |
| 5321.0 |
| 3366.8 |
| 935.8 |
| 233.4 |
| 125.1 |
| 82.6 |
| 53.6 |
| 22.3 |
| 0.0 |

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