

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: P941000

Luminaire Tested: **GALN-SB4B-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941000
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-SB4B-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20512 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

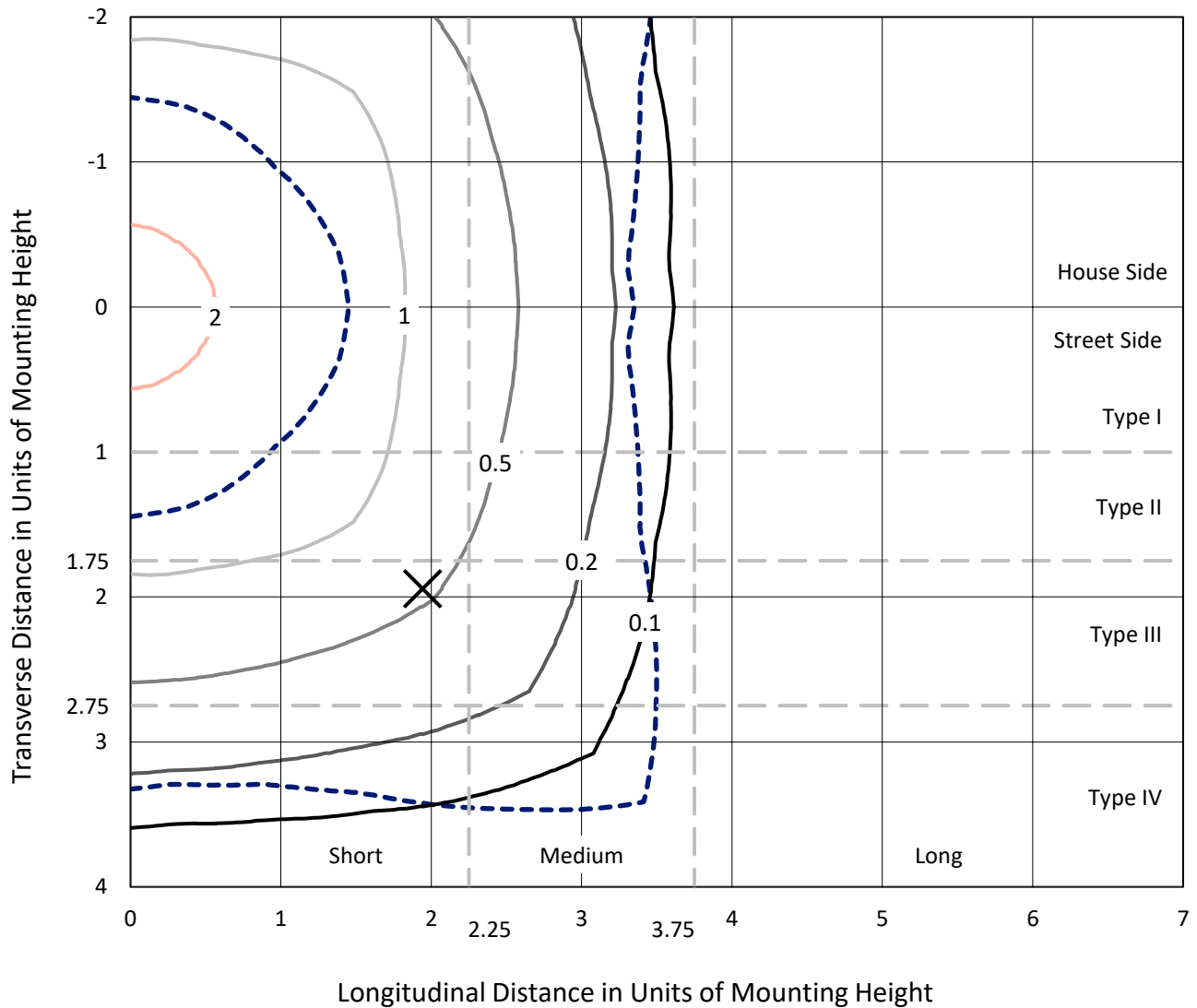
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

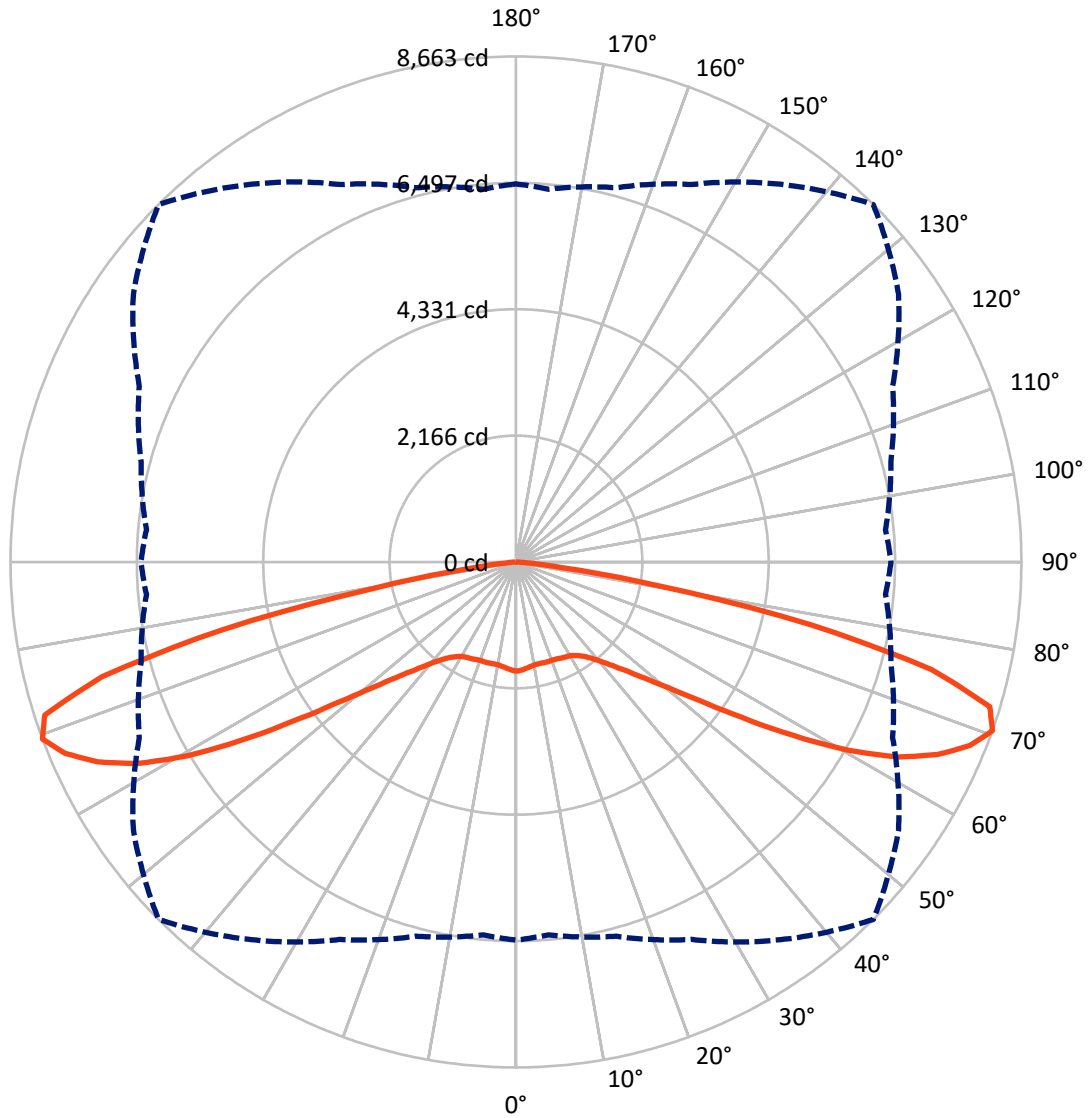
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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 | 10256.0 | 0.0 | 10256.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10256.0 | 0.0 | 10256.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 20512.0 | 0.0 | 20512.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 174.1 | 0.8 |
| 10°-20° | 511.1 | 2.5 |
| 20°-30° | 850.5 | 4.1 |
| 30°-40° | 1286.2 | 6.3 |
| 40°-50° | 2137.4 | 10.4 |
| 50°-60° | 4033.2 | 19.7 |
| 60°-70° | 6810.2 | 33.2 |
| 70°-80° | 4475.0 | 21.8 |
| 80°-90° | 234.4 | 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° | 20512.0 | 100.0 |
| 0°-180° | 20512.0 | 100.0 |



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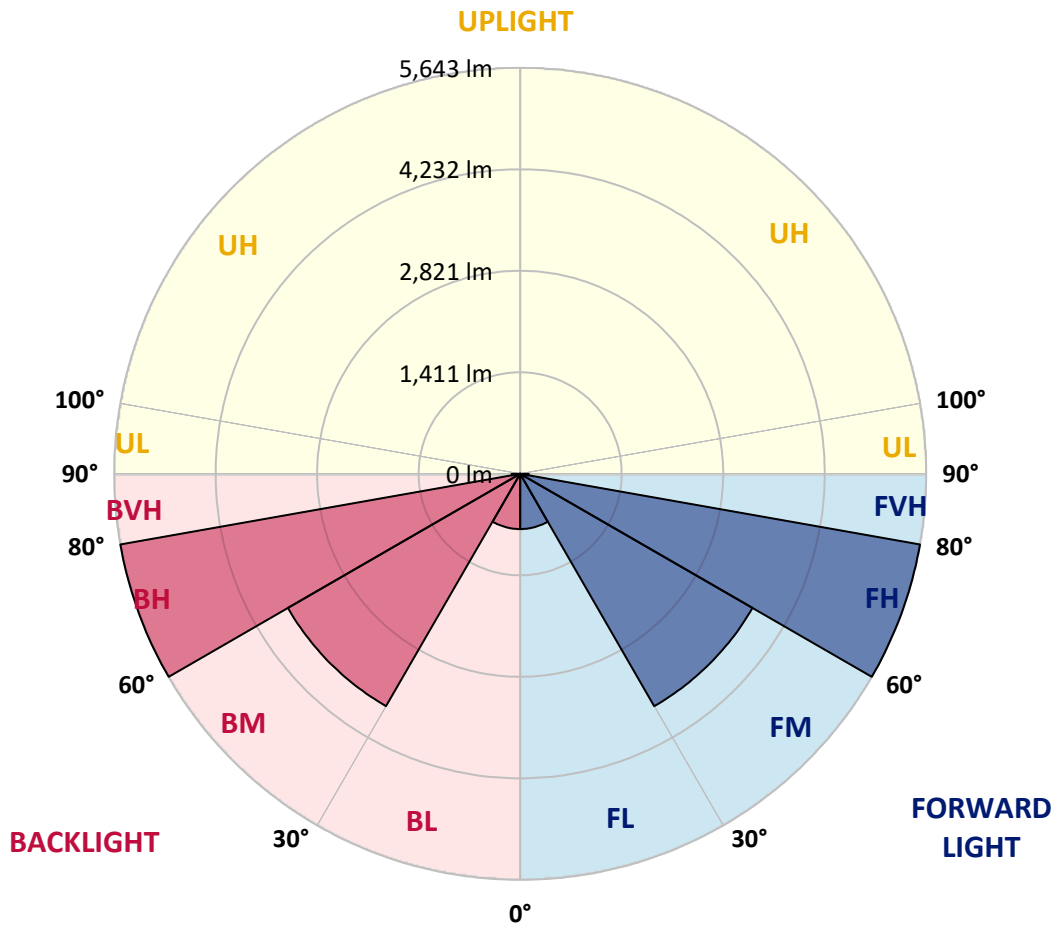
CATALOG NUMBER: GALN-SB4B-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 767.8 | 3.7 | | | |
| FM (30°-60°) | 3728.4 | 18.2 | | | |
| FH (60°-80°) | 5642.6 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 117.2 | 0.6 | | | G2/225 |
| BL (0°-30°) | 767.8 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 3728.4 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 5642.6 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 117.2 | 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° | 1871.1 | 1871.1 | 1871.1 | 1871.1 | 1871.1 | 1871.1 | 1871.1 | 1871.1 | 1871.1 | 1871.1 |
| 2.5° | 1859.4 | 1864.7 | 1862.6 | 1858.3 | 1858.3 | 1855.1 | 1858.3 | 1860.4 | 1863.6 | 1865.8 |
| 5° | 1834.9 | 1839.1 | 1838.1 | 1834.9 | 1835.9 | 1832.7 | 1834.9 | 1838.1 | 1840.2 | 1841.3 |
| 7.5° | 1813.5 | 1817.8 | 1815.7 | 1810.3 | 1810.3 | 1807.1 | 1808.2 | 1811.4 | 1814.6 | 1815.7 |
| 10° | 1808.2 | 1812.5 | 1806.1 | 1797.5 | 1794.3 | 1790.1 | 1791.1 | 1794.3 | 1800.7 | 1803.9 |
| 12.5° | 1810.3 | 1813.5 | 1807.1 | 1794.3 | 1791.1 | 1786.9 | 1786.9 | 1790.1 | 1798.6 | 1802.9 |
| 15° | 1816.7 | 1819.9 | 1810.3 | 1796.5 | 1793.3 | 1790.1 | 1789.0 | 1793.3 | 1802.9 | 1810.3 |
| 17.5° | 1828.5 | 1831.7 | 1816.7 | 1797.5 | 1793.3 | 1794.3 | 1793.3 | 1796.5 | 1811.4 | 1825.3 |
| 20° | 1839.1 | 1841.3 | 1821.0 | 1797.5 | 1793.3 | 1794.3 | 1793.3 | 1799.7 | 1818.9 | 1838.1 |
| 22.5° | 1842.3 | 1844.5 | 1825.3 | 1805.0 | 1801.8 | 1802.9 | 1801.8 | 1808.2 | 1826.3 | 1845.5 |
| 25° | 1843.4 | 1846.6 | 1831.7 | 1815.7 | 1821.0 | 1823.1 | 1821.0 | 1822.1 | 1835.9 | 1853.0 |
| 27.5° | 1859.4 | 1863.6 | 1849.8 | 1835.9 | 1839.1 | 1838.1 | 1841.3 | 1844.5 | 1855.1 | 1872.2 |
| 30° | 1892.4 | 1895.6 | 1883.9 | 1870.0 | 1867.9 | 1860.4 | 1870.0 | 1880.7 | 1892.4 | 1907.4 |
| 32.5° | 1946.8 | 1953.2 | 1938.3 | 1923.3 | 1913.8 | 1909.5 | 1917.0 | 1935.1 | 1951.1 | 1967.1 |
| 35° | 2037.4 | 2041.7 | 2027.8 | 2000.1 | 1983.1 | 1983.1 | 1989.5 | 2012.9 | 2038.5 | 2058.8 |
| 37.5° | 2165.4 | 2170.7 | 2146.2 | 2113.1 | 2087.5 | 2087.5 | 2096.1 | 2120.6 | 2159.0 | 2187.8 |
| 40° | 2321.0 | 2328.5 | 2297.6 | 2263.5 | 2238.9 | 2234.7 | 2245.3 | 2273.0 | 2309.3 | 2345.5 |
| 42.5° | 2508.7 | 2517.2 | 2476.7 | 2446.8 | 2427.6 | 2427.6 | 2433.0 | 2458.6 | 2491.6 | 2536.4 |
| 45° | 2748.6 | 2763.5 | 2708.0 | 2678.2 | 2660.1 | 2664.3 | 2667.5 | 2689.9 | 2719.8 | 2770.9 |
| 47.5° | 3034.3 | 3049.2 | 2990.6 | 2959.7 | 2956.5 | 2976.7 | 2963.9 | 2979.9 | 2995.9 | 3054.5 |
| 50° | 3358.4 | 3384.0 | 3343.5 | 3341.3 | 3347.7 | 3385.1 | 3355.2 | 3363.7 | 3345.6 | 3382.9 |
| 52.5° | 3755.0 | 3792.3 | 3784.9 | 3797.7 | 3869.1 | 3945.9 | 3877.6 | 3847.8 | 3779.5 | 3791.3 |
| 55° | 4235.8 | 4292.4 | 4303.0 | 4379.8 | 4541.8 | 4698.6 | 4553.6 | 4433.1 | 4288.1 | 4261.4 |
| 57.5° | 4782.8 | 4827.6 | 4878.7 | 5035.5 | 5338.3 | 5616.5 | 5338.3 | 5071.7 | 4843.6 | 4789.2 |
| 60° | 5371.3 | 5426.7 | 5475.8 | 5707.1 | 6157.1 | 6548.3 | 6148.5 | 5725.3 | 5423.5 | 5350.0 |
| 62.5° | 6003.5 | 6075.0 | 6109.1 | 6366.0 | 6890.6 | 7357.6 | 6898.0 | 6385.2 | 6050.4 | 5971.6 |
| 65° | 6610.2 | 6668.8 | 6707.2 | 6981.2 | 7482.3 | 7950.3 | 7516.4 | 7011.1 | 6666.7 | 6563.3 |
| 67.5° | 6892.7 | 6924.7 | 7018.5 | 7328.8 | 7857.6 | 8391.7 | 7947.1 | 7361.8 | 6976.9 | 6795.7 |
| 70° | 6479.0 | 6414.0 | 6640.0 | 7136.9 | 7902.4 | 8662.5 | 8004.7 | 7121.9 | 6650.7 | 6356.4 |
| 72.5° | 5006.7 | 4894.7 | 5287.1 | 6136.8 | 7390.6 | 8489.8 | 7441.8 | 6184.8 | 5531.2 | 4934.2 |
| 75° | 2724.0 | 2597.2 | 3138.8 | 4213.5 | 5893.7 | 7358.6 | 6029.1 | 4333.9 | 3494.9 | 2703.8 |
| 77.5° | 768.7 | 720.7 | 1157.8 | 2038.5 | 3545.0 | 5166.6 | 3681.4 | 2083.3 | 1373.2 | 814.5 |
| 80° | 235.6 | 228.2 | 309.2 | 614.1 | 1505.4 | 2474.6 | 1446.8 | 621.6 | 393.4 | 248.4 |
| 82.5° | 139.7 | 127.9 | 153.5 | 223.9 | 383.8 | 777.2 | 373.2 | 233.5 | 187.6 | 125.8 |
| 85° | 80.0 | 74.6 | 90.6 | 108.7 | 129.0 | 165.3 | 107.7 | 110.9 | 100.2 | 67.2 |
| 87.5° | 33.1 | 29.9 | 35.2 | 34.1 | 29.9 | 38.4 | 28.8 | 34.1 | 40.5 | 26.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 1871.1 |
| 1864.7 |
| 1841.3 |
| 1815.7 |
| 1803.9 |
| 1803.9 |
| 1811.4 |
| 1825.3 |
| 1839.1 |
| 1845.5 |
| 1851.9 |
| 1867.9 |
| 1904.2 |
| 1960.7 |
| 2051.3 |
| 2177.1 |
| 2333.8 |
| 2533.2 |
| 2768.8 |
| 3037.5 |
| 3360.5 |
| 3751.8 |
| 4219.9 |
| 4750.8 |
| 5286.0 |
| 5907.6 |
| 6512.1 |
| 6797.8 |
| 6426.8 |
| 5082.4 |
| 2879.7 |
| 905.2 |
| 262.3 |
| 136.5 |
| 70.4 |
| 24.5 |
| 0.0 |

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