

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: P949744

Luminaire Tested: **GALN-SB4B-930-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949744
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-SB4B-930-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16441 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

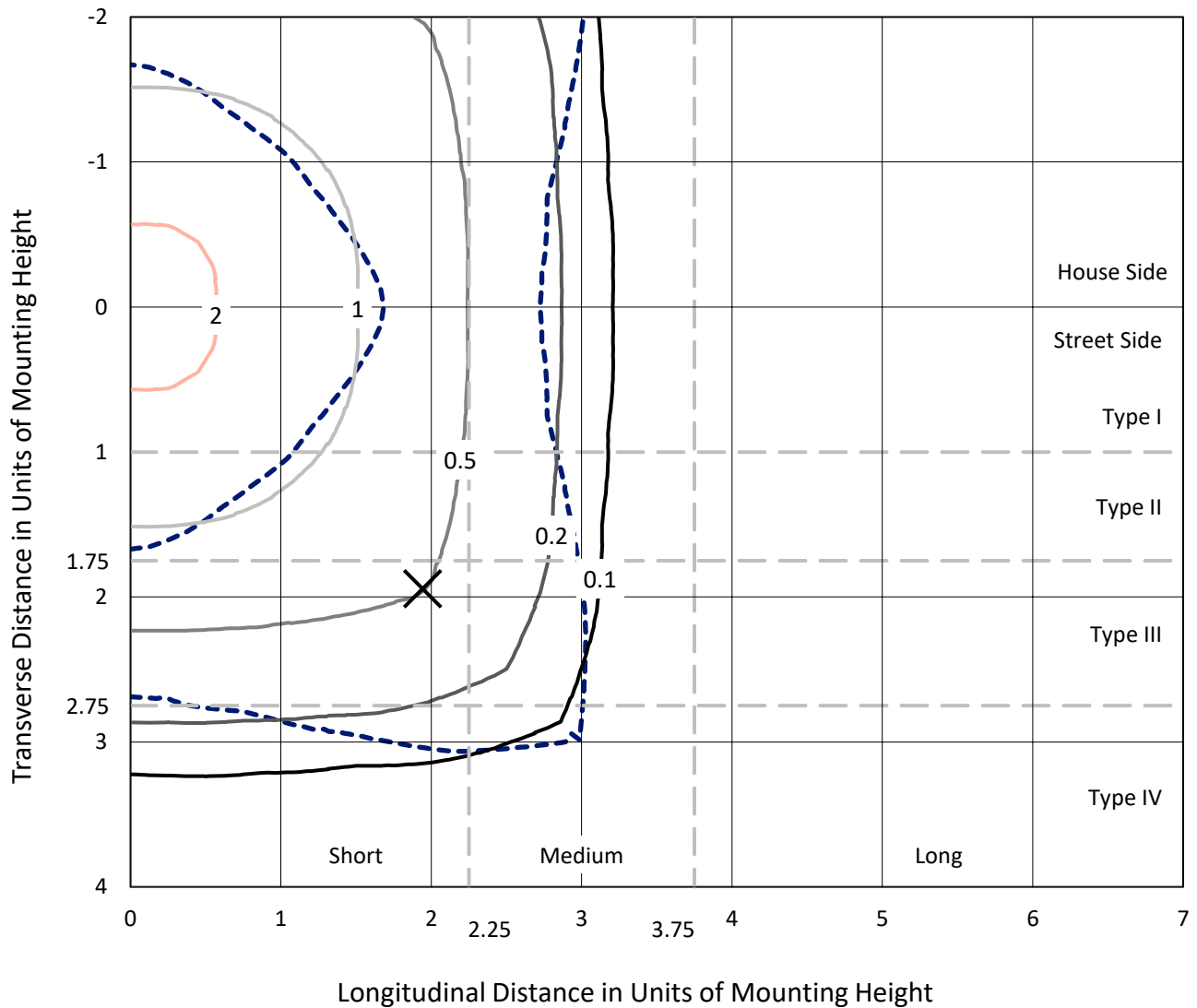
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

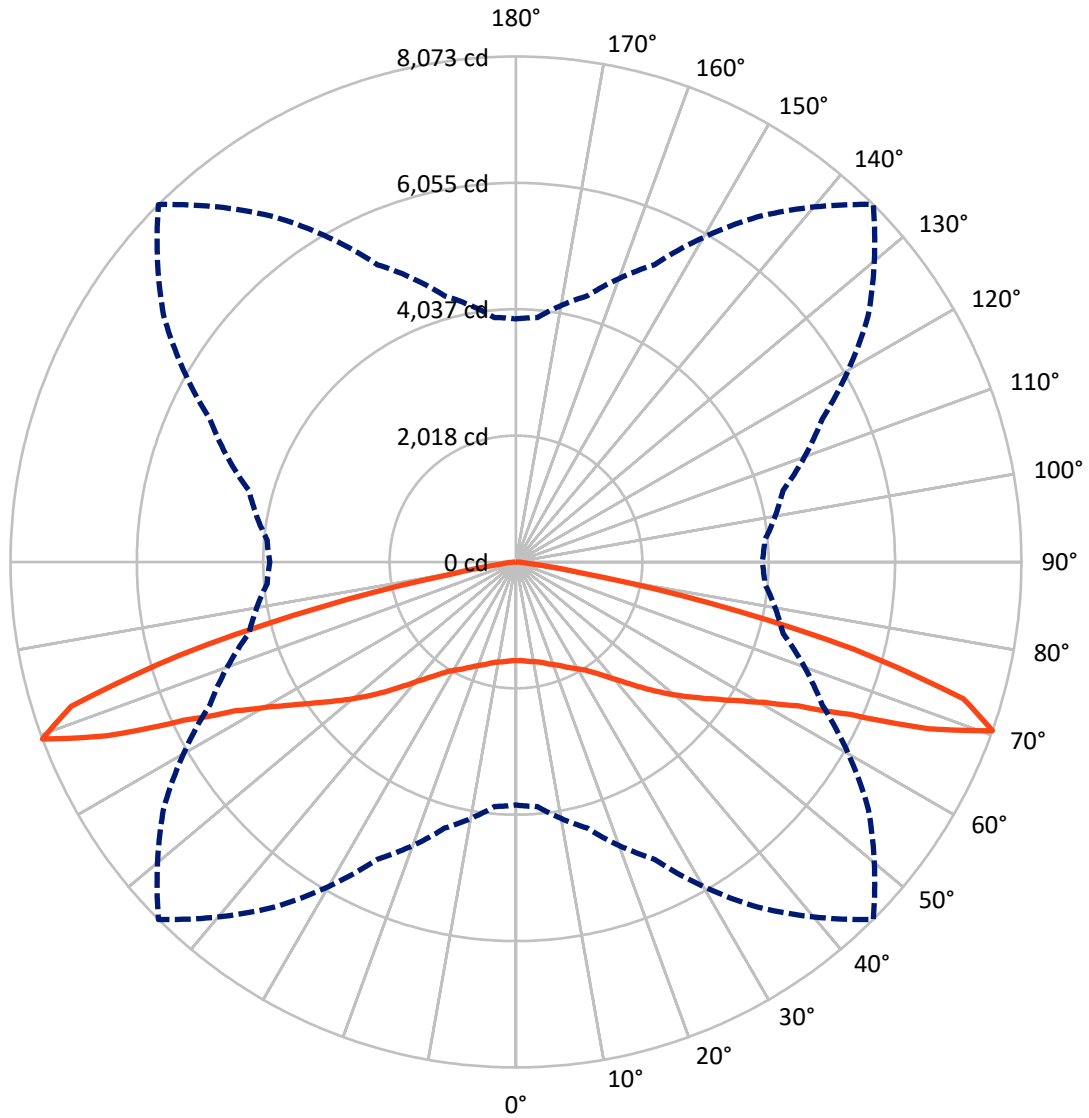
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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 | 8220.5 | 0.0 | 8220.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8220.5 | 0.0 | 8220.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16441.0 | 0.0 | 16441.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 153.0 | 0.9 |
| 10°-20° | 474.4 | 2.9 |
| 20°-30° | 847.9 | 5.2 |
| 30°-40° | 1374.4 | 8.4 |
| 40°-50° | 2238.6 | 13.6 |
| 50°-60° | 3413.2 | 20.8 |
| 60°-70° | 5077.7 | 30.9 |
| 70°-80° | 2767.5 | 16.8 |
| 80°-90° | 94.2 | 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° | 16441.0 | 100.0 |
| 0°-180° | 16441.0 | 100.0 |



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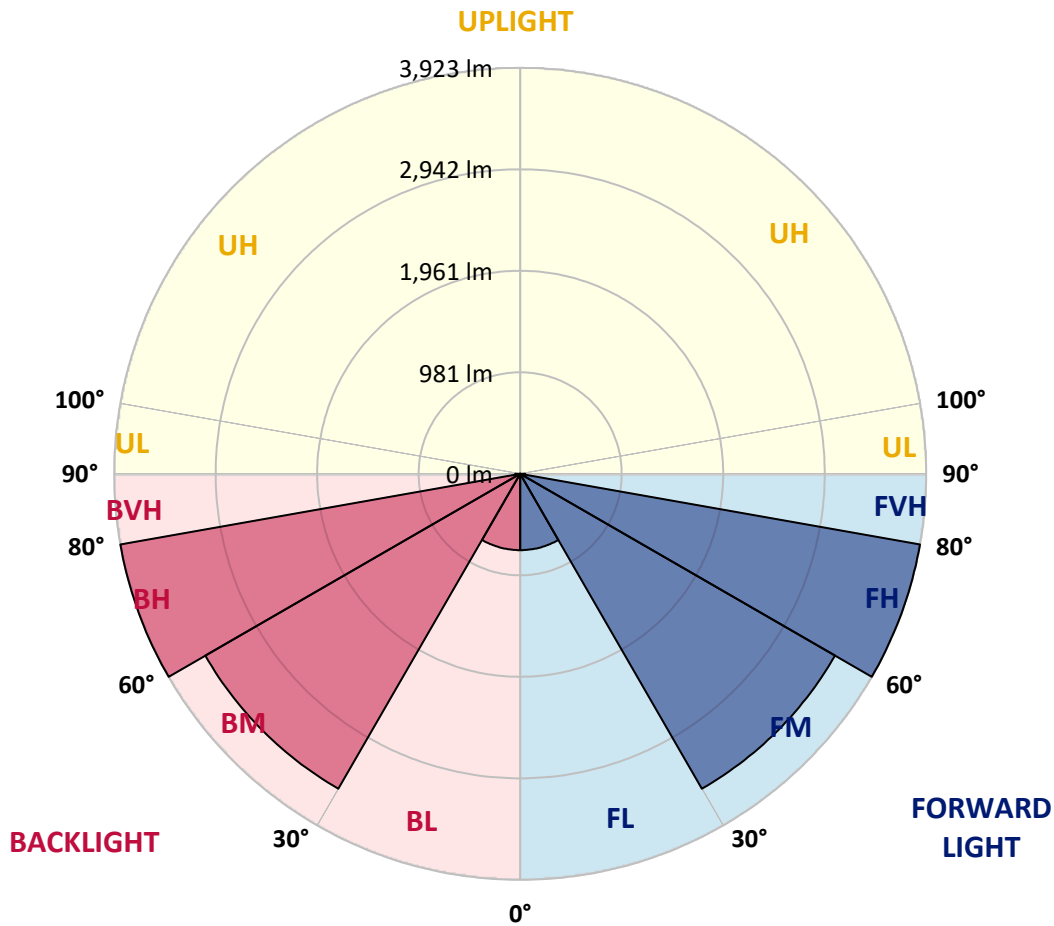
CATALOG NUMBER: GALN-SB4B-930-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 737.7 | 4.5 | | | |
| FM (30°-60°) | 3513.1 | 21.4 | | | |
| FH (60°-80°) | 3922.6 | 23.9 | | | G2/5000 |
| FVH (80°-90°) | 47.1 | 0.3 | | | G1/100 |
| BL (0°-30°) | 737.7 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 3513.1 | 21.4 | B3/5000 | | |
| BH (60°-80°) | 3922.6 | 23.9 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 47.1 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1574.9 | 1574.9 | 1574.9 | 1574.9 | 1574.9 | 1574.9 | 1574.9 | 1574.9 | 1574.9 | 1574.9 |
| 2.5° | 1582.3 | 1584.0 | 1580.7 | 1579.0 | 1577.4 | 1574.9 | 1575.7 | 1579.8 | 1583.1 | 1582.3 |
| 5° | 1595.5 | 1597.2 | 1594.7 | 1593.9 | 1590.6 | 1589.7 | 1589.7 | 1593.9 | 1596.3 | 1594.7 |
| 7.5° | 1610.4 | 1612.8 | 1608.7 | 1607.9 | 1606.2 | 1604.6 | 1603.8 | 1607.9 | 1610.4 | 1610.4 |
| 10° | 1624.4 | 1626.9 | 1623.6 | 1621.1 | 1619.4 | 1619.4 | 1617.8 | 1621.1 | 1625.2 | 1624.4 |
| 12.5° | 1639.3 | 1640.9 | 1637.6 | 1636.0 | 1636.0 | 1638.4 | 1636.0 | 1637.6 | 1640.9 | 1639.3 |
| 15° | 1657.4 | 1658.2 | 1657.4 | 1659.9 | 1664.0 | 1672.3 | 1664.8 | 1663.2 | 1664.8 | 1660.7 |
| 17.5° | 1682.2 | 1683.8 | 1687.1 | 1692.9 | 1698.7 | 1713.5 | 1700.3 | 1696.2 | 1696.2 | 1688.0 |
| 20° | 1712.7 | 1715.2 | 1720.1 | 1730.1 | 1737.5 | 1751.5 | 1738.3 | 1732.5 | 1730.1 | 1719.3 |
| 22.5° | 1744.9 | 1749.0 | 1756.5 | 1769.7 | 1782.9 | 1796.1 | 1782.9 | 1773.0 | 1765.5 | 1751.5 |
| 25° | 1782.1 | 1787.0 | 1798.6 | 1820.0 | 1838.2 | 1857.2 | 1841.5 | 1821.7 | 1806.8 | 1787.0 |
| 27.5° | 1834.9 | 1840.7 | 1854.7 | 1881.1 | 1904.2 | 1920.7 | 1905.9 | 1880.3 | 1859.6 | 1835.7 |
| 30° | 1909.2 | 1914.9 | 1931.5 | 1959.5 | 1975.2 | 1985.9 | 1976.0 | 1956.2 | 1931.5 | 1904.2 |
| 32.5° | 2004.9 | 2012.3 | 2030.5 | 2056.9 | 2060.2 | 2061.9 | 2058.6 | 2048.7 | 2030.5 | 1997.5 |
| 35° | 2126.2 | 2134.5 | 2155.1 | 2176.6 | 2173.3 | 2176.6 | 2171.6 | 2168.3 | 2155.1 | 2117.2 |
| 37.5° | 2274.8 | 2284.7 | 2306.2 | 2322.7 | 2314.4 | 2310.3 | 2311.1 | 2312.0 | 2304.5 | 2262.4 |
| 40° | 2447.3 | 2460.5 | 2476.2 | 2493.6 | 2479.5 | 2467.1 | 2475.4 | 2482.0 | 2475.4 | 2432.5 |
| 42.5° | 2624.8 | 2643.8 | 2660.3 | 2685.1 | 2673.5 | 2657.8 | 2669.4 | 2676.8 | 2662.8 | 2616.5 |
| 45° | 2822.1 | 2840.2 | 2861.7 | 2898.8 | 2890.6 | 2874.1 | 2890.6 | 2892.2 | 2868.3 | 2813.8 |
| 47.5° | 3025.9 | 3044.9 | 3077.1 | 3126.6 | 3123.3 | 3105.2 | 3126.6 | 3115.1 | 3084.5 | 3019.3 |
| 50° | 3219.1 | 3245.5 | 3295.0 | 3364.4 | 3371.0 | 3348.7 | 3377.6 | 3355.3 | 3304.1 | 3222.4 |
| 52.5° | 3400.7 | 3428.7 | 3507.2 | 3601.3 | 3625.2 | 3596.3 | 3635.1 | 3596.3 | 3519.5 | 3414.7 |
| 55° | 3591.3 | 3622.7 | 3716.0 | 3839.0 | 3886.8 | 3865.4 | 3901.7 | 3843.1 | 3734.1 | 3607.0 |
| 57.5° | 3815.9 | 3834.8 | 3946.3 | 4092.4 | 4173.3 | 4178.2 | 4194.7 | 4095.7 | 3963.6 | 3819.2 |
| 60° | 4059.4 | 4085.8 | 4207.1 | 4382.1 | 4510.0 | 4551.3 | 4534.0 | 4387.0 | 4233.5 | 4067.6 |
| 62.5° | 4371.4 | 4400.2 | 4545.5 | 4755.2 | 4957.4 | 5059.7 | 4992.1 | 4779.1 | 4589.3 | 4390.3 |
| 65° | 4629.7 | 4661.9 | 4924.4 | 5298.3 | 5666.4 | 5871.9 | 5701.9 | 5309.8 | 4968.1 | 4687.5 |
| 67.5° | 4442.3 | 4482.0 | 4893.8 | 5580.6 | 6496.0 | 7109.2 | 6527.3 | 5664.8 | 4995.4 | 4614.9 |
| 70° | 3882.7 | 3919.9 | 4400.2 | 5239.7 | 6729.5 | 8073.3 | 6869.9 | 5394.0 | 4415.9 | 3990.0 |
| 72.5° | 2577.7 | 2697.4 | 3183.6 | 4190.6 | 6009.0 | 7470.8 | 6068.4 | 4105.6 | 2953.3 | 2572.0 |
| 75° | 855.1 | 950.9 | 1282.7 | 2172.5 | 4024.7 | 5587.2 | 3831.5 | 1922.4 | 1016.1 | 731.3 |
| 77.5° | 215.4 | 248.4 | 342.5 | 621.5 | 1605.4 | 3181.1 | 1445.3 | 507.6 | 276.5 | 193.1 |
| 80° | 104.8 | 115.6 | 165.1 | 207.2 | 402.0 | 1011.1 | 377.2 | 194.8 | 130.4 | 100.7 |
| 82.5° | 57.8 | 58.6 | 93.3 | 117.2 | 149.4 | 261.7 | 155.2 | 113.9 | 75.1 | 61.1 |
| 85° | 35.5 | 34.7 | 49.5 | 62.7 | 62.7 | 93.3 | 74.3 | 62.7 | 42.9 | 38.0 |
| 87.5° | 14.0 | 14.0 | 18.2 | 19.8 | 17.3 | 23.9 | 19.0 | 20.6 | 16.5 | 15.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 1574.9 |
| 1583.1 |
| 1595.5 |
| 1610.4 |
| 1624.4 |
| 1638.4 |
| 1660.7 |
| 1688.0 |
| 1719.3 |
| 1750.7 |
| 1786.2 |
| 1834.9 |
| 1904.2 |
| 1998.3 |
| 2117.2 |
| 2262.4 |
| 2432.5 |
| 2619.8 |
| 2819.6 |
| 3015.2 |
| 3220.7 |
| 3404.8 |
| 3589.7 |
| 3799.4 |
| 4041.2 |
| 4355.7 |
| 4641.3 |
| 4557.9 |
| 3933.1 |
| 2488.6 |
| 691.7 |
| 172.5 |
| 92.4 |
| 61.1 |
| 39.6 |
| 16.5 |
| 0.0 |

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