

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: P940660

Luminaire Tested: **GALN-SB3D-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940660
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-SB3D-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27750 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

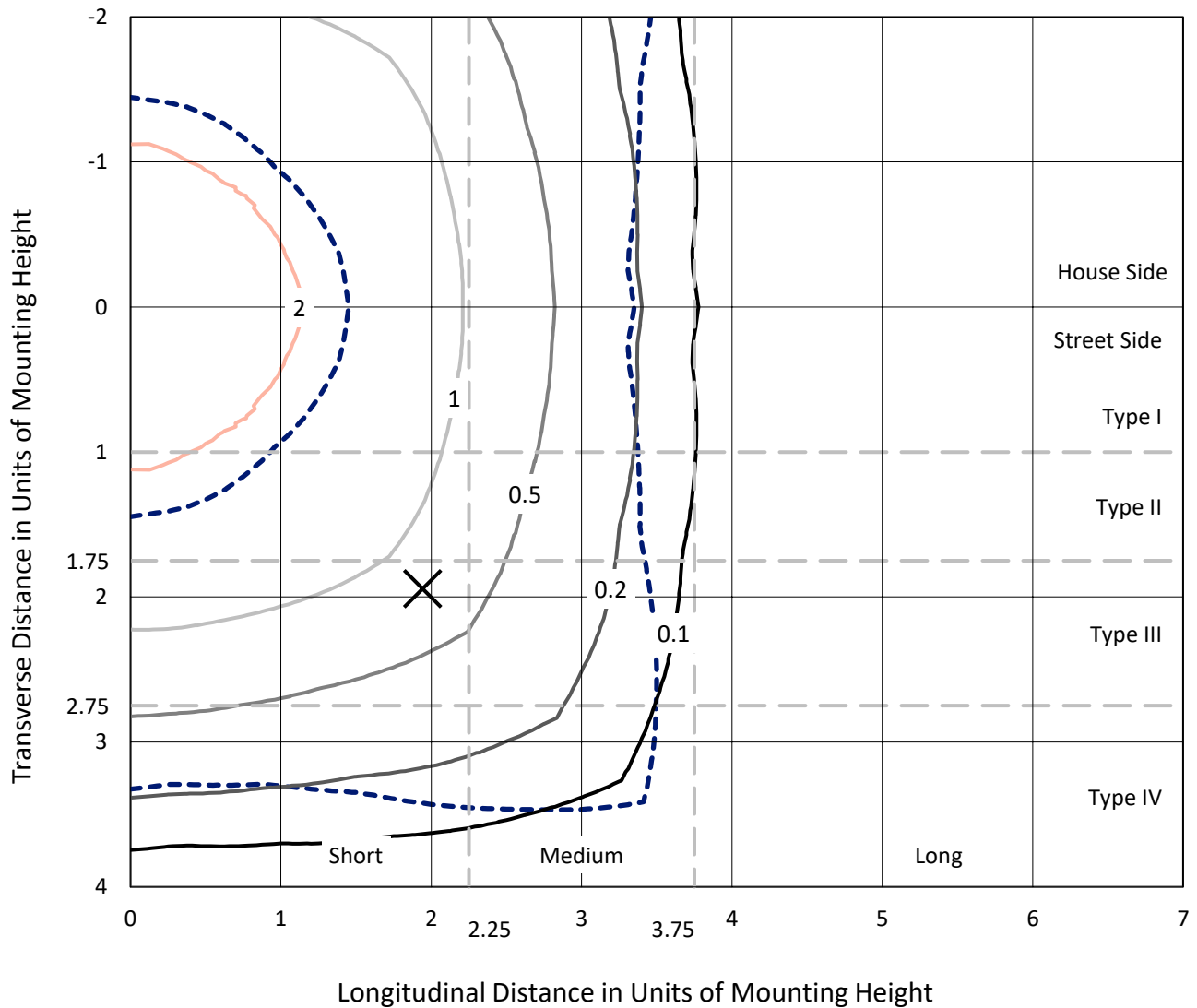
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

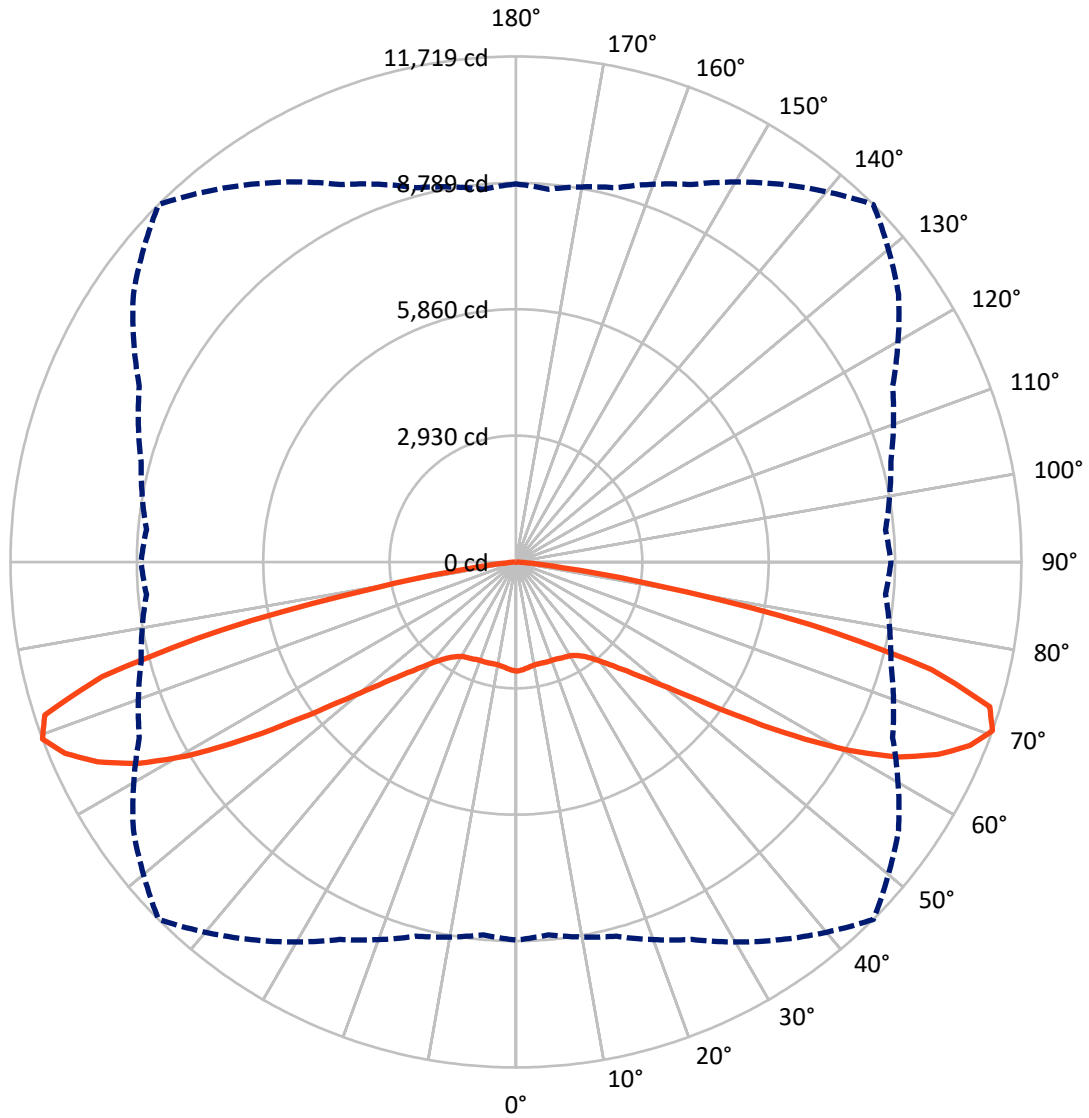
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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 | 13875.0 | 0.0 | 13875.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13875.0 | 0.0 | 13875.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27750.0 | 0.0 | 27750.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 235.5 | 0.8 |
| 10°-20° | 691.4 | 2.5 |
| 20°-30° | 1150.6 | 4.1 |
| 30°-40° | 1740.1 | 6.3 |
| 40°-50° | 2891.6 | 10.4 |
| 50°-60° | 5456.3 | 19.7 |
| 60°-70° | 9213.2 | 33.2 |
| 70°-80° | 6054.1 | 21.8 |
| 80°-90° | 317.2 | 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° | 27750.0 | 100.0 |
| 0°-180° | 27750.0 | 100.0 |

Coefficient of Utilization



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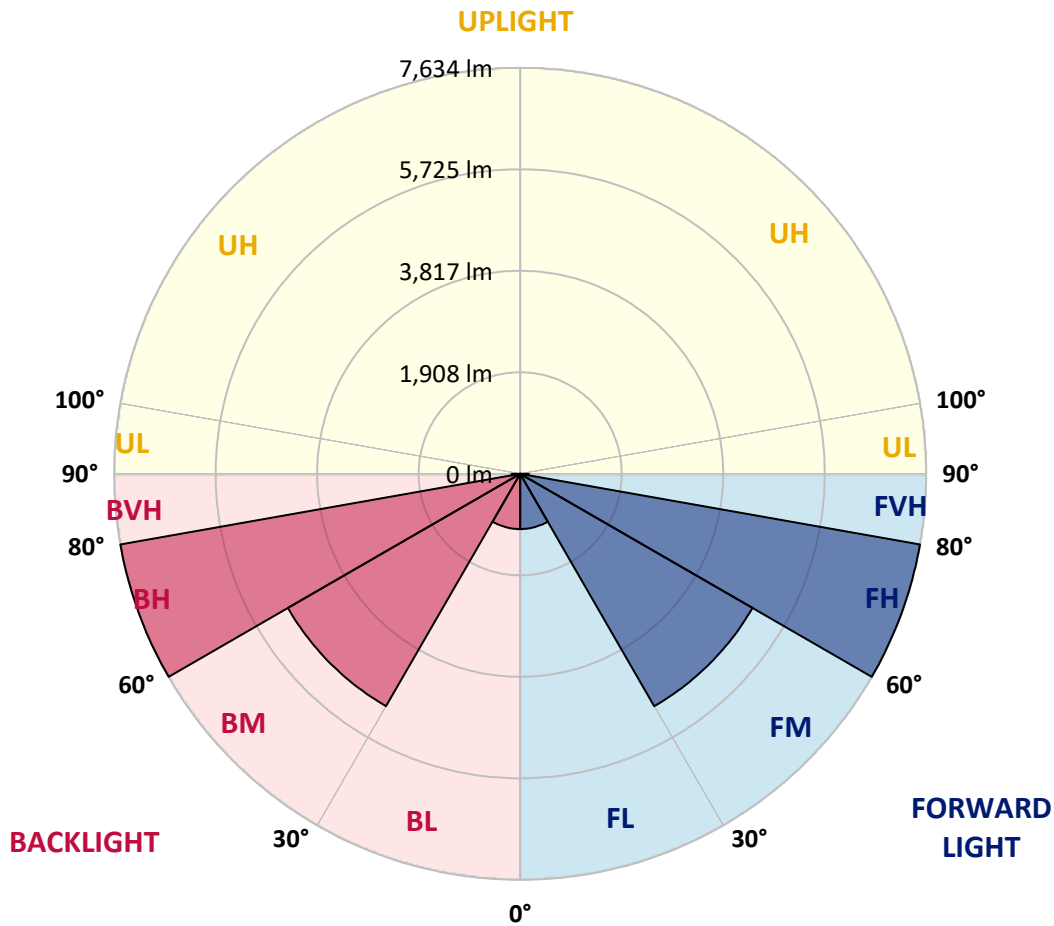
CATALOG NUMBER: GALN-SB3D-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1038.8 | 3.7 | | | |
| FM (30°-60°) | 5044.0 | 18.2 | | | |
| FH (60°-80°) | 7633.6 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 158.6 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1038.8 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 5044.0 | 18.2 | B4/8500 | | |
| BH (60°-80°) | 7633.6 | 27.5 | B5 | | G4/12000 |
| BVH (80°-90°) | 158.6 | 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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 2531.4 | 2531.4 | 2531.4 | 2531.4 | 2531.4 | 2531.4 | 2531.4 | 2531.4 | 2531.4 | 2531.4 |
| 2.5° | 2515.5 | 2522.7 | 2519.8 | 2514.1 | 2514.1 | 2509.7 | 2514.1 | 2516.9 | 2521.3 | 2524.1 |
| 5° | 2482.3 | 2488.1 | 2486.6 | 2482.3 | 2483.8 | 2479.4 | 2482.3 | 2486.6 | 2489.5 | 2491.0 |
| 7.5° | 2453.5 | 2459.2 | 2456.4 | 2449.1 | 2449.1 | 2444.8 | 2446.3 | 2450.6 | 2454.9 | 2456.4 |
| 10° | 2446.3 | 2452.0 | 2443.4 | 2431.8 | 2427.5 | 2421.7 | 2423.2 | 2427.5 | 2436.2 | 2440.5 |
| 12.5° | 2449.1 | 2453.5 | 2444.8 | 2427.5 | 2423.2 | 2417.4 | 2417.4 | 2421.7 | 2433.3 | 2439.0 |
| 15° | 2457.8 | 2462.1 | 2449.1 | 2430.4 | 2426.1 | 2421.7 | 2420.3 | 2426.1 | 2439.0 | 2449.1 |
| 17.5° | 2473.7 | 2478.0 | 2457.8 | 2431.8 | 2426.1 | 2427.5 | 2426.1 | 2430.4 | 2450.6 | 2469.3 |
| 20° | 2488.1 | 2491.0 | 2463.6 | 2431.8 | 2426.1 | 2427.5 | 2426.1 | 2434.7 | 2460.7 | 2486.6 |
| 22.5° | 2492.4 | 2495.3 | 2469.3 | 2441.9 | 2437.6 | 2439.0 | 2437.6 | 2446.3 | 2470.8 | 2496.7 |
| 25° | 2493.9 | 2498.2 | 2478.0 | 2456.4 | 2463.6 | 2466.5 | 2463.6 | 2465.0 | 2483.8 | 2506.8 |
| 27.5° | 2515.5 | 2521.3 | 2502.5 | 2483.8 | 2488.1 | 2486.6 | 2491.0 | 2495.3 | 2509.7 | 2532.8 |
| 30° | 2560.2 | 2564.5 | 2548.7 | 2529.9 | 2527.0 | 2516.9 | 2529.9 | 2544.3 | 2560.2 | 2580.4 |
| 32.5° | 2633.8 | 2642.4 | 2622.2 | 2602.0 | 2589.1 | 2583.3 | 2593.4 | 2617.9 | 2639.5 | 2661.2 |
| 35° | 2756.4 | 2762.1 | 2743.4 | 2705.9 | 2682.8 | 2682.8 | 2691.5 | 2723.2 | 2757.8 | 2785.2 |
| 37.5° | 2929.5 | 2936.7 | 2903.5 | 2858.8 | 2824.2 | 2824.2 | 2835.7 | 2868.9 | 2920.8 | 2959.7 |
| 40° | 3140.0 | 3150.1 | 3108.3 | 3062.2 | 3029.0 | 3023.2 | 3037.6 | 3075.1 | 3124.2 | 3173.2 |
| 42.5° | 3393.9 | 3405.4 | 3350.6 | 3310.2 | 3284.3 | 3284.3 | 3291.5 | 3326.1 | 3370.8 | 3431.4 |
| 45° | 3718.4 | 3738.6 | 3663.6 | 3623.2 | 3598.7 | 3604.5 | 3608.8 | 3639.1 | 3679.5 | 3748.7 |
| 47.5° | 4105.0 | 4125.2 | 4045.8 | 4004.0 | 3999.7 | 4027.1 | 4009.8 | 4031.4 | 4053.1 | 4132.4 |
| 50° | 4543.5 | 4578.1 | 4523.3 | 4520.4 | 4529.0 | 4579.5 | 4539.1 | 4550.7 | 4526.2 | 4576.6 |
| 52.5° | 5080.0 | 5130.5 | 5120.4 | 5137.7 | 5234.4 | 5338.2 | 5245.9 | 5205.5 | 5113.2 | 5129.1 |
| 55° | 5730.5 | 5807.0 | 5821.4 | 5925.3 | 6144.5 | 6356.5 | 6160.4 | 5997.4 | 5801.2 | 5765.2 |
| 57.5° | 6470.5 | 6531.0 | 6600.3 | 6812.3 | 7221.9 | 7598.4 | 7221.9 | 6861.4 | 6552.7 | 6479.1 |
| 60° | 7266.7 | 7341.7 | 7408.0 | 7721.0 | 8329.7 | 8859.0 | 8318.1 | 7745.5 | 7337.3 | 7237.8 |
| 62.5° | 8122.0 | 8218.6 | 8264.8 | 8612.4 | 9322.0 | 9953.8 | 9332.1 | 8638.4 | 8185.4 | 8078.7 |
| 65° | 8942.7 | 9022.0 | 9073.9 | 9444.6 | 10122.6 | 10755.8 | 10168.7 | 9485.0 | 9019.1 | 8879.2 |
| 67.5° | 9324.9 | 9368.2 | 9495.1 | 9914.8 | 10630.3 | 11352.9 | 10751.4 | 9959.6 | 9438.9 | 9193.7 |
| 70° | 8765.3 | 8677.3 | 8983.1 | 9655.2 | 10690.8 | 11719.3 | 10829.3 | 9635.0 | 8997.5 | 8599.4 |
| 72.5° | 6773.4 | 6621.9 | 7152.7 | 8302.3 | 9998.5 | 11485.6 | 10067.7 | 8367.2 | 7483.0 | 6675.3 |
| 75° | 3685.3 | 3513.6 | 4246.3 | 5700.2 | 7973.4 | 9955.2 | 8156.6 | 5863.2 | 4728.1 | 3657.8 |
| 77.5° | 1039.9 | 975.0 | 1566.4 | 2757.8 | 4795.9 | 6989.7 | 4980.5 | 2818.4 | 1857.8 | 1102.0 |
| 80° | 318.8 | 308.7 | 418.3 | 830.8 | 2036.6 | 3347.7 | 1957.3 | 840.9 | 532.2 | 336.1 |
| 82.5° | 189.0 | 173.1 | 207.7 | 302.9 | 519.3 | 1051.5 | 504.8 | 315.9 | 253.9 | 170.2 |
| 85° | 108.2 | 101.0 | 122.6 | 147.1 | 174.5 | 223.6 | 145.7 | 150.0 | 135.6 | 90.9 |
| 87.5° | 44.7 | 40.4 | 47.6 | 46.2 | 40.4 | 51.9 | 38.9 | 46.2 | 54.8 | 36.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 2531.4 |
| 2522.7 |
| 2491.0 |
| 2456.4 |
| 2440.5 |
| 2440.5 |
| 2450.6 |
| 2469.3 |
| 2488.1 |
| 2496.7 |
| 2505.4 |
| 2527.0 |
| 2576.1 |
| 2652.5 |
| 2775.1 |
| 2945.3 |
| 3157.3 |
| 3427.1 |
| 3745.8 |
| 4109.3 |
| 4546.3 |
| 5075.7 |
| 5708.9 |
| 6427.2 |
| 7151.3 |
| 7992.2 |
| 8810.0 |
| 9196.5 |
| 8694.6 |
| 6875.8 |
| 3895.8 |
| 1224.6 |
| 354.8 |
| 184.6 |
| 95.2 |
| 33.2 |
| 0.0 |

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