

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: P941700

Luminaire Tested: **GALN-SB5B-840-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941700
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-SB5B-840-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27521 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

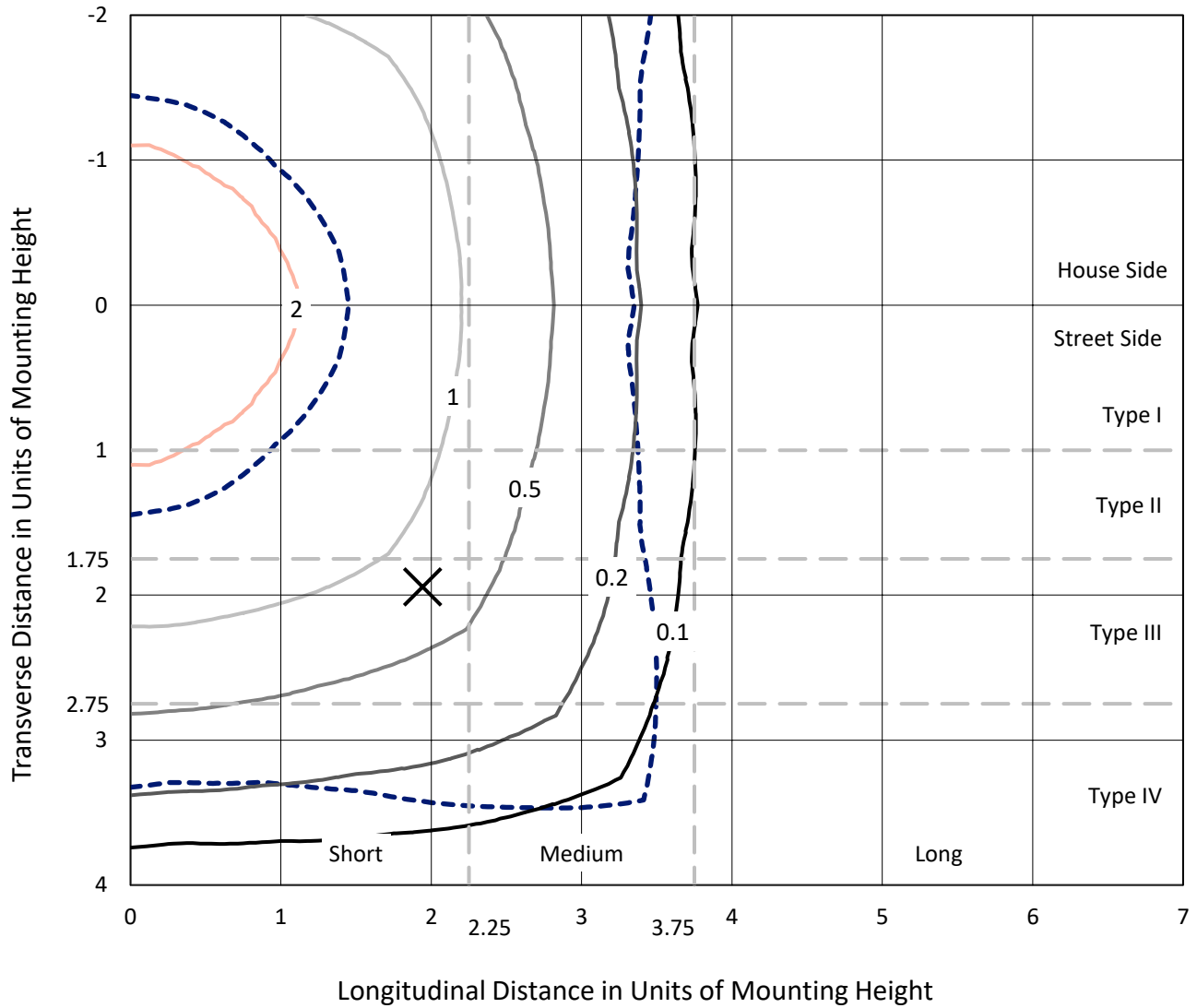
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

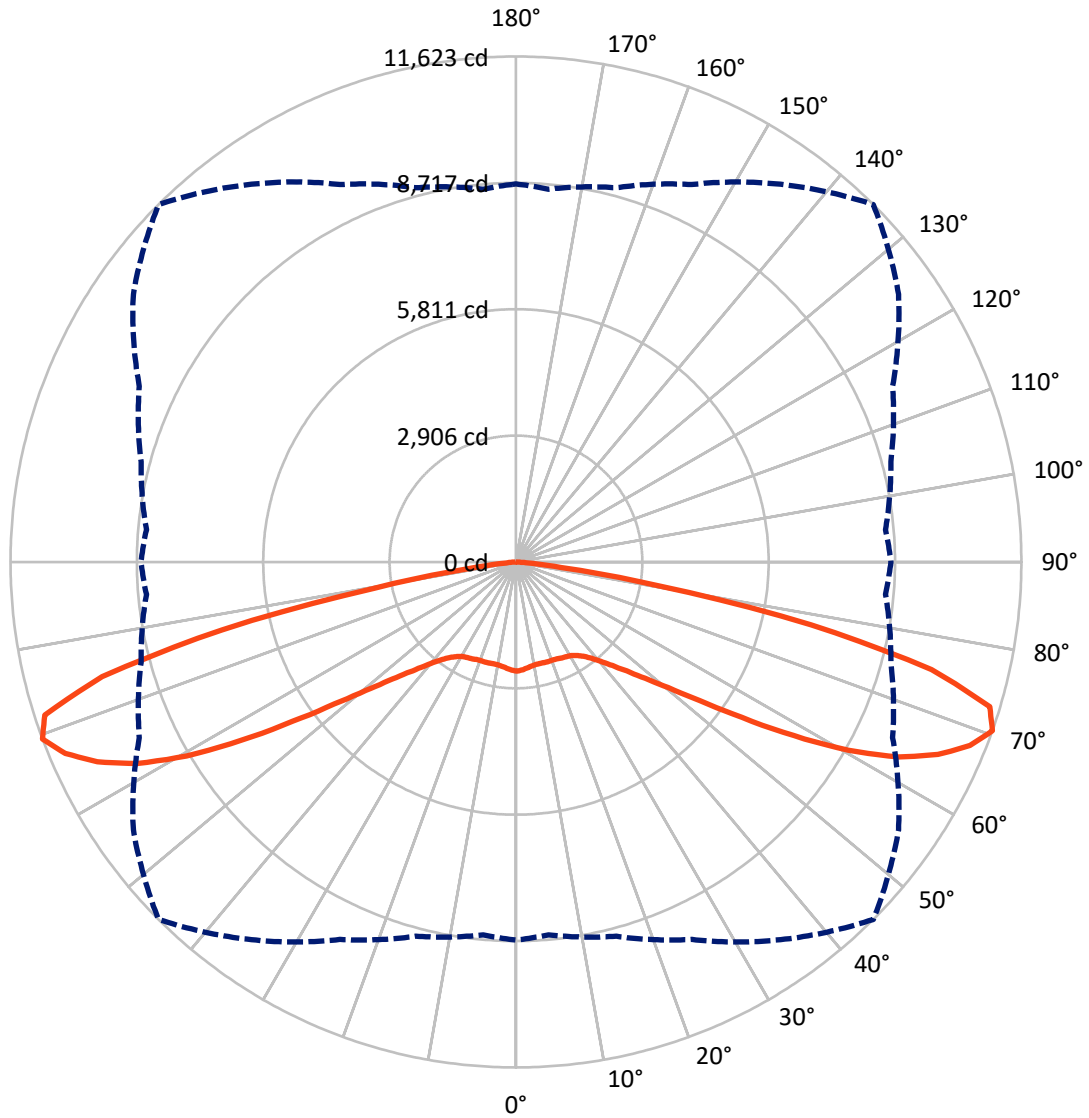
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 | 13760.5 | 0.0 | 13760.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13760.5 | 0.0 | 13760.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27521.0 | 0.0 | 27521.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 233.5 | 0.8 |
| 10°-20° | 685.7 | 2.5 |
| 20°-30° | 1141.1 | 4.1 |
| 30°-40° | 1725.7 | 6.3 |
| 40°-50° | 2867.7 | 10.4 |
| 50°-60° | 5411.3 | 19.7 |
| 60°-70° | 9137.2 | 33.2 |
| 70°-80° | 6004.1 | 21.8 |
| 80°-90° | 314.6 | 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° | 27521.0 | 100.0 |
| 0°-180° | 27521.0 | 100.0 |

Coefficient of Utilization



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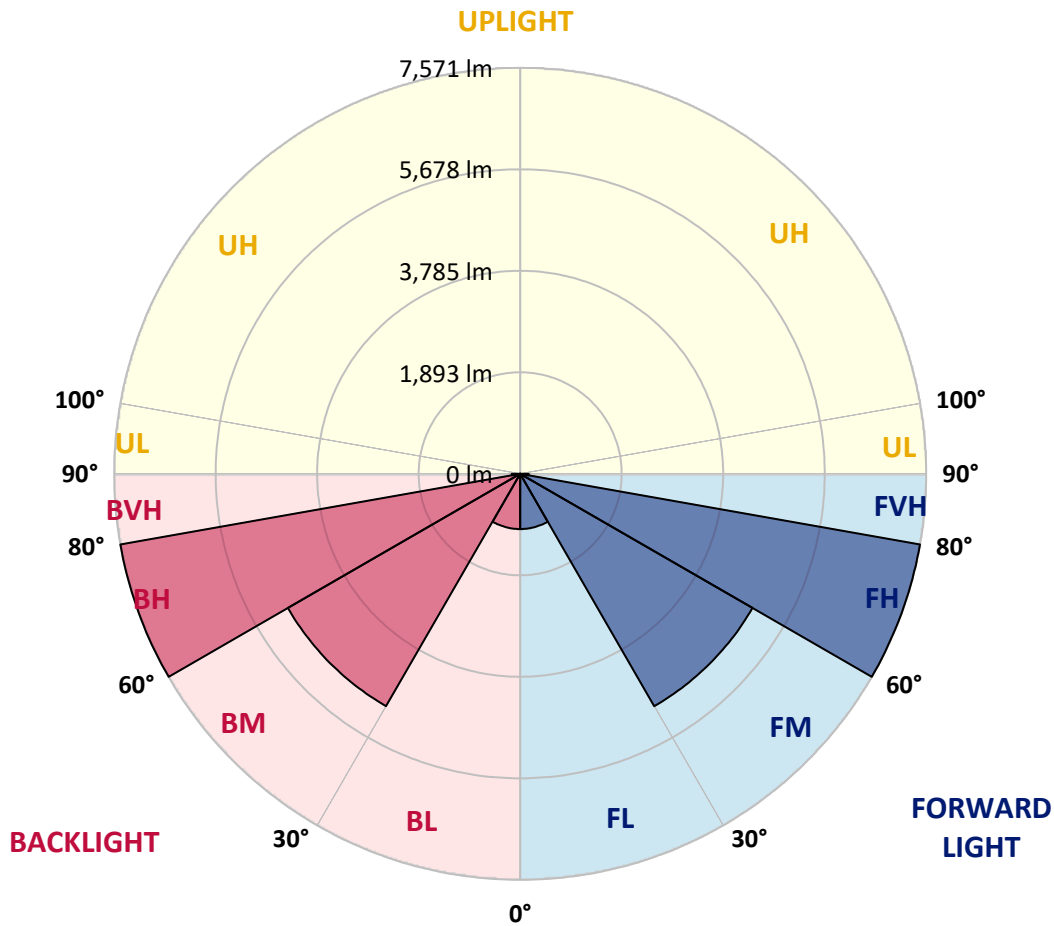
CATALOG NUMBER: GALN-SB5B-840-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1030.2 | 3.7 | | | |
| FM (30°-60°) | 5002.4 | 18.2 | | | |
| FH (60°-80°) | 7570.7 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 157.3 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1030.2 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 5002.4 | 18.2 | B4/8500 | | |
| BH (60°-80°) | 7570.7 | 27.5 | B5 | | G4/12000 |
| BVH (80°-90°) | 157.3 | 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° | 2510.5 | 2510.5 | 2510.5 | 2510.5 | 2510.5 | 2510.5 | 2510.5 | 2510.5 | 2510.5 | 2510.5 |
| 2.5° | 2494.7 | 2501.9 | 2499.0 | 2493.3 | 2493.3 | 2489.0 | 2493.3 | 2496.2 | 2500.5 | 2503.3 |
| 5° | 2461.8 | 2467.6 | 2466.1 | 2461.8 | 2463.3 | 2459.0 | 2461.8 | 2466.1 | 2469.0 | 2470.4 |
| 7.5° | 2433.2 | 2438.9 | 2436.1 | 2428.9 | 2428.9 | 2424.6 | 2426.1 | 2430.4 | 2434.7 | 2436.1 |
| 10° | 2426.1 | 2431.8 | 2423.2 | 2411.8 | 2407.5 | 2401.8 | 2403.2 | 2407.5 | 2416.1 | 2420.3 |
| 12.5° | 2428.9 | 2433.2 | 2424.6 | 2407.5 | 2403.2 | 2397.5 | 2397.5 | 2401.8 | 2413.2 | 2418.9 |
| 15° | 2437.5 | 2441.8 | 2428.9 | 2410.3 | 2406.0 | 2401.8 | 2400.3 | 2406.0 | 2418.9 | 2428.9 |
| 17.5° | 2453.3 | 2457.5 | 2437.5 | 2411.8 | 2406.0 | 2407.5 | 2406.0 | 2410.3 | 2430.4 | 2449.0 |
| 20° | 2467.6 | 2470.4 | 2443.2 | 2411.8 | 2406.0 | 2407.5 | 2406.0 | 2414.6 | 2440.4 | 2466.1 |
| 22.5° | 2471.8 | 2474.7 | 2449.0 | 2421.8 | 2417.5 | 2418.9 | 2417.5 | 2426.1 | 2450.4 | 2476.1 |
| 25° | 2473.3 | 2477.6 | 2457.5 | 2436.1 | 2443.2 | 2446.1 | 2443.2 | 2444.7 | 2463.3 | 2486.2 |
| 27.5° | 2494.7 | 2500.5 | 2481.9 | 2463.3 | 2467.6 | 2466.1 | 2470.4 | 2474.7 | 2489.0 | 2511.9 |
| 30° | 2539.1 | 2543.4 | 2527.6 | 2509.0 | 2506.2 | 2496.2 | 2509.0 | 2523.3 | 2539.1 | 2559.1 |
| 32.5° | 2612.0 | 2620.6 | 2600.6 | 2580.6 | 2567.7 | 2562.0 | 2572.0 | 2596.3 | 2617.8 | 2639.2 |
| 35° | 2733.6 | 2739.3 | 2720.7 | 2683.6 | 2660.7 | 2660.7 | 2669.3 | 2700.7 | 2735.1 | 2762.2 |
| 37.5° | 2905.3 | 2912.4 | 2879.5 | 2835.2 | 2800.9 | 2800.9 | 2812.3 | 2845.2 | 2896.7 | 2935.3 |
| 40° | 3114.1 | 3124.1 | 3082.7 | 3036.9 | 3004.0 | 2998.3 | 3012.6 | 3049.8 | 3098.4 | 3147.0 |
| 42.5° | 3365.9 | 3377.3 | 3323.0 | 3282.9 | 3257.2 | 3257.2 | 3264.3 | 3298.7 | 3343.0 | 3403.1 |
| 45° | 3687.7 | 3707.8 | 3633.4 | 3593.3 | 3569.0 | 3574.7 | 3579.0 | 3609.1 | 3649.1 | 3717.8 |
| 47.5° | 4071.1 | 4091.1 | 4012.5 | 3971.0 | 3966.7 | 3993.9 | 3976.7 | 3998.2 | 4019.6 | 4098.3 |
| 50° | 4506.0 | 4540.3 | 4485.9 | 4483.1 | 4491.7 | 4541.7 | 4501.7 | 4513.1 | 4488.8 | 4538.9 |
| 52.5° | 5038.1 | 5088.2 | 5078.2 | 5095.3 | 5191.2 | 5294.2 | 5202.6 | 5162.6 | 5071.0 | 5086.7 |
| 55° | 5683.2 | 5759.1 | 5773.4 | 5876.4 | 6093.8 | 6304.1 | 6109.5 | 5947.9 | 5753.3 | 5717.6 |
| 57.5° | 6417.1 | 6477.2 | 6545.8 | 6756.1 | 7162.3 | 7535.7 | 7162.3 | 6804.7 | 6498.6 | 6425.7 |
| 60° | 7206.7 | 7281.1 | 7346.9 | 7657.3 | 8260.9 | 8785.9 | 8249.5 | 7681.6 | 7276.8 | 7178.1 |
| 62.5° | 8055.0 | 8150.8 | 8196.6 | 8541.3 | 9245.1 | 9871.7 | 9255.1 | 8567.1 | 8117.9 | 8012.0 |
| 65° | 8868.9 | 8947.6 | 8999.1 | 9366.7 | 10039.0 | 10667.0 | 10084.8 | 9406.7 | 8944.7 | 8806.0 |
| 67.5° | 9248.0 | 9290.9 | 9416.8 | 9833.0 | 10542.5 | 11259.2 | 10662.7 | 9877.4 | 9361.0 | 9117.8 |
| 70° | 8692.9 | 8605.7 | 8908.9 | 9575.5 | 10602.6 | 11622.5 | 10739.9 | 9555.5 | 8923.3 | 8528.4 |
| 72.5° | 6717.5 | 6567.3 | 7093.7 | 8233.8 | 9916.0 | 11390.8 | 9984.7 | 8298.1 | 7421.3 | 6620.2 |
| 75° | 3654.8 | 3484.6 | 4211.3 | 5653.2 | 7907.6 | 9873.1 | 8089.3 | 5814.8 | 4689.1 | 3627.7 |
| 77.5° | 1031.4 | 967.0 | 1553.5 | 2735.1 | 4756.3 | 6932.0 | 4939.4 | 2795.1 | 1842.4 | 1092.9 |
| 80° | 316.1 | 306.1 | 414.8 | 823.9 | 2019.8 | 3320.1 | 1941.1 | 834.0 | 527.8 | 333.3 |
| 82.5° | 187.4 | 171.7 | 206.0 | 300.4 | 515.0 | 1042.8 | 500.7 | 313.3 | 251.8 | 168.8 |
| 85° | 107.3 | 100.1 | 121.6 | 145.9 | 173.1 | 221.7 | 144.5 | 148.8 | 134.5 | 90.1 |
| 87.5° | 44.3 | 40.1 | 47.2 | 45.8 | 40.1 | 51.5 | 38.6 | 45.8 | 54.4 | 35.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 2510.5 |
| 2501.9 |
| 2470.4 |
| 2436.1 |
| 2420.3 |
| 2420.3 |
| 2430.4 |
| 2449.0 |
| 2467.6 |
| 2476.1 |
| 2484.7 |
| 2506.2 |
| 2554.8 |
| 2630.6 |
| 2752.2 |
| 2921.0 |
| 3131.3 |
| 3398.8 |
| 3714.9 |
| 4075.4 |
| 4508.8 |
| 5033.8 |
| 5661.8 |
| 6374.2 |
| 7092.3 |
| 7926.2 |
| 8737.3 |
| 9120.7 |
| 8622.9 |
| 6819.0 |
| 3863.7 |
| 1214.5 |
| 351.9 |
| 183.1 |
| 94.4 |
| 32.9 |
| 0.0 |

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