

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: P943050

Luminaire Tested: **GALN-SB7B-835-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943050
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-SB7B-835-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37572 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

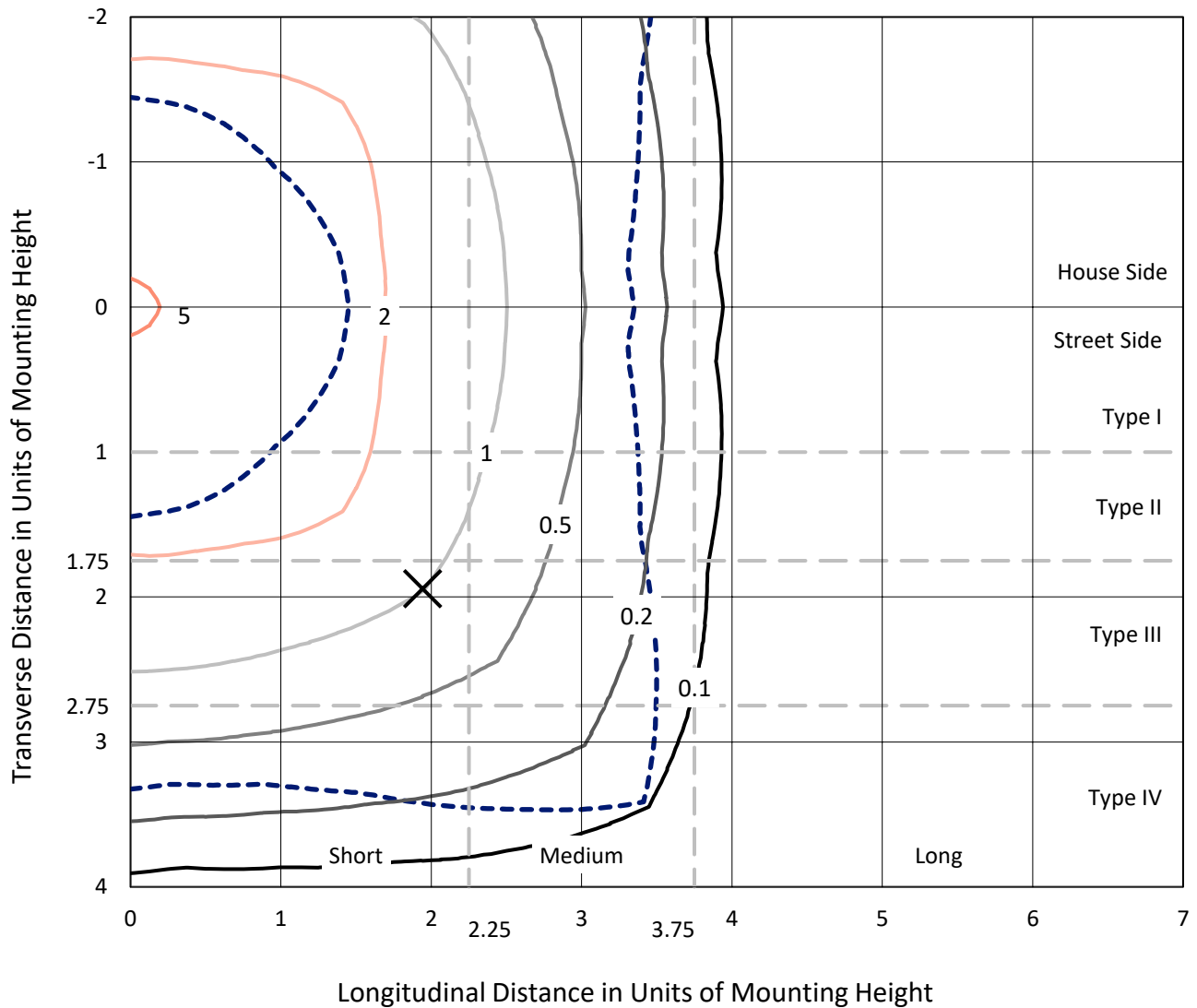
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

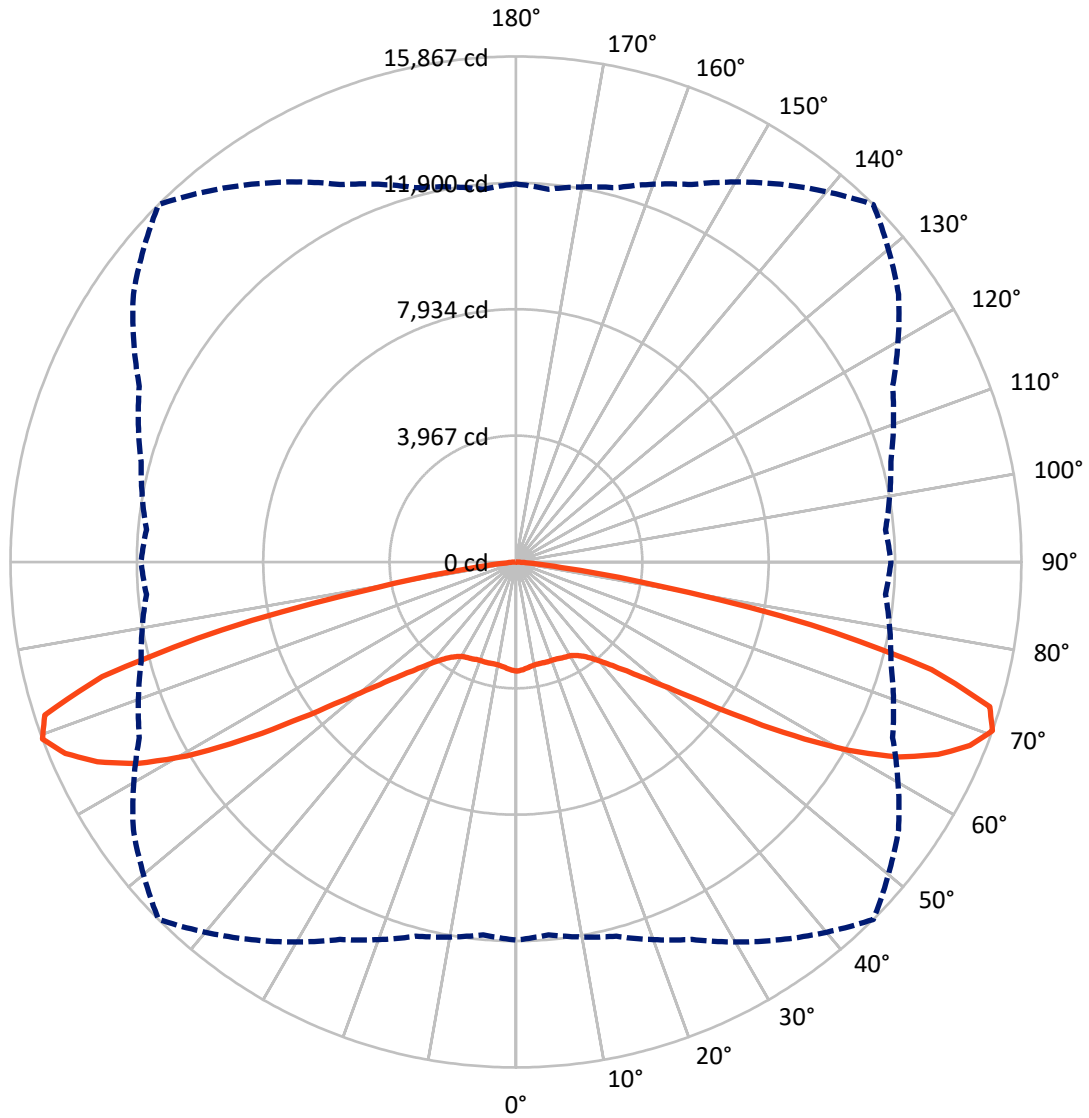
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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 | 18786.0 | 0.0 | 18786.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18786.0 | 0.0 | 18786.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 37572.0 | 0.0 | 37572.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 318.8 | 0.8 |
| 10°-20° | 936.1 | 2.5 |
| 20°-30° | 1557.9 | 4.1 |
| 30°-40° | 2356.0 | 6.3 |
| 40°-50° | 3915.1 | 10.4 |
| 50°-60° | 7387.6 | 19.7 |
| 60°-70° | 12474.2 | 33.2 |
| 70°-80° | 8196.9 | 21.8 |
| 80°-90° | 429.4 | 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° | 37572.0 | 100.0 |
| 0°-180° | 37572.0 | 100.0 |

Coefficient of Utilization



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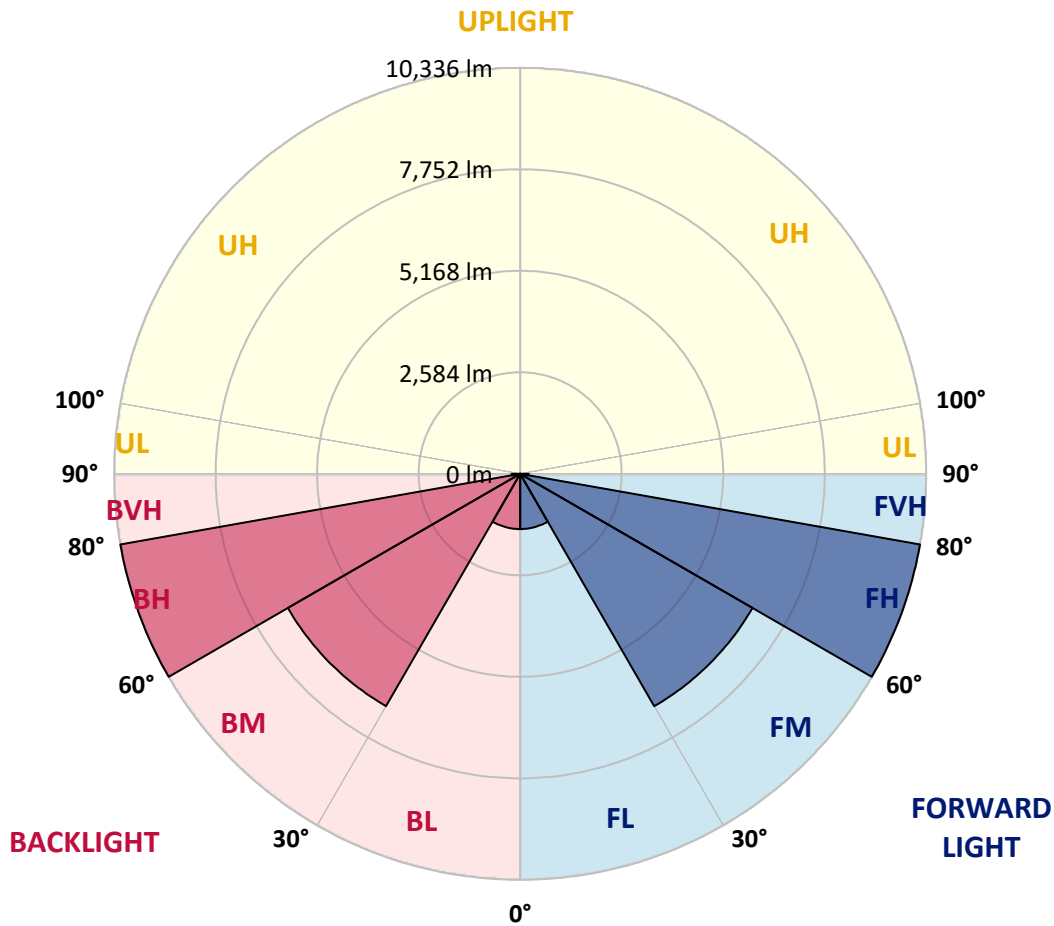
CATALOG NUMBER: GALN-SB7B-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1406.4 | 3.7 | | | |
| FM (30°-60°) | 6829.3 | 18.2 | | | |
| FH (60°-80°) | 10335.5 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 214.7 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1406.4 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 6829.3 | 18.2 | B4/8500 | | |
| BH (60°-80°) | 10335.5 | 27.5 | B5 | | G4/12000 |
| BVH (80°-90°) | 214.7 | 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° | 3427.3 | 3427.3 | 3427.3 | 3427.3 | 3427.3 | 3427.3 | 3427.3 | 3427.3 | 3427.3 | 3427.3 |
| 2.5° | 3405.8 | 3415.6 | 3411.7 | 3403.9 | 3403.9 | 3398.0 | 3403.9 | 3407.8 | 3413.7 | 3417.6 |
| 5° | 3360.9 | 3368.7 | 3366.8 | 3360.9 | 3362.9 | 3357.0 | 3360.9 | 3366.8 | 3370.7 | 3372.6 |
| 7.5° | 3321.9 | 3329.7 | 3325.8 | 3316.0 | 3316.0 | 3310.1 | 3312.1 | 3318.0 | 3323.8 | 3325.8 |
| 10° | 3312.1 | 3319.9 | 3308.2 | 3292.6 | 3286.7 | 3278.9 | 3280.9 | 3286.7 | 3298.4 | 3304.3 |
| 12.5° | 3316.0 | 3321.9 | 3310.1 | 3286.7 | 3280.9 | 3273.0 | 3273.0 | 3278.9 | 3294.5 | 3302.3 |
| 15° | 3327.7 | 3333.6 | 3316.0 | 3290.6 | 3284.8 | 3278.9 | 3277.0 | 3284.8 | 3302.3 | 3316.0 |
| 17.5° | 3349.2 | 3355.1 | 3327.7 | 3292.6 | 3284.8 | 3286.7 | 3284.8 | 3290.6 | 3318.0 | 3343.3 |
| 20° | 3368.7 | 3372.6 | 3335.5 | 3292.6 | 3284.8 | 3286.7 | 3284.8 | 3296.5 | 3331.6 | 3366.8 |
| 22.5° | 3374.6 | 3378.5 | 3343.3 | 3306.2 | 3300.4 | 3302.3 | 3300.4 | 3312.1 | 3345.3 | 3380.5 |
| 25° | 3376.5 | 3382.4 | 3355.1 | 3325.8 | 3335.5 | 3339.4 | 3335.5 | 3337.5 | 3362.9 | 3394.1 |
| 27.5° | 3405.8 | 3413.7 | 3388.3 | 3362.9 | 3368.7 | 3366.8 | 3372.6 | 3378.5 | 3398.0 | 3429.3 |
| 30° | 3466.4 | 3472.2 | 3450.8 | 3425.4 | 3421.5 | 3407.8 | 3425.4 | 3444.9 | 3466.4 | 3493.7 |
| 32.5° | 3566.0 | 3577.7 | 3550.4 | 3523.0 | 3505.4 | 3497.6 | 3511.3 | 3544.5 | 3573.8 | 3603.1 |
| 35° | 3732.0 | 3739.8 | 3714.4 | 3663.6 | 3632.4 | 3632.4 | 3644.1 | 3687.1 | 3733.9 | 3771.0 |
| 37.5° | 3966.3 | 3976.1 | 3931.2 | 3870.6 | 3823.8 | 3823.8 | 3839.4 | 3884.3 | 3954.6 | 4007.3 |
| 40° | 4251.4 | 4265.1 | 4208.5 | 4146.0 | 4101.1 | 4093.3 | 4112.8 | 4163.6 | 4230.0 | 4296.4 |
| 42.5° | 4595.2 | 4610.8 | 4536.6 | 4481.9 | 4446.7 | 4446.7 | 4456.5 | 4503.4 | 4563.9 | 4645.9 |
| 45° | 5034.6 | 5061.9 | 4960.3 | 4905.7 | 4872.5 | 4880.3 | 4886.1 | 4927.1 | 4981.8 | 5075.6 |
| 47.5° | 5557.9 | 5585.3 | 5477.9 | 5421.2 | 5415.4 | 5452.5 | 5429.0 | 5458.3 | 5487.6 | 5595.0 |
| 50° | 6151.6 | 6198.5 | 6124.3 | 6120.4 | 6132.1 | 6200.4 | 6145.7 | 6161.4 | 6128.2 | 6196.5 |
| 52.5° | 6878.1 | 6946.4 | 6932.8 | 6956.2 | 7087.0 | 7227.6 | 7102.7 | 7048.0 | 6923.0 | 6944.5 |
| 55° | 7758.8 | 7862.3 | 7881.9 | 8022.5 | 8319.3 | 8606.4 | 8340.8 | 8120.1 | 7854.5 | 7805.7 |
| 57.5° | 8760.7 | 8842.7 | 8936.4 | 9223.5 | 9778.1 | 10287.8 | 9778.1 | 9289.9 | 8872.0 | 8772.4 |
| 60° | 9838.7 | 9940.2 | 10030.0 | 10453.8 | 11277.9 | 11994.7 | 11262.3 | 10487.0 | 9934.4 | 9799.6 |
| 62.5° | 10996.7 | 11127.6 | 11190.1 | 11660.7 | 12621.5 | 13476.9 | 12635.2 | 11695.9 | 11082.7 | 10938.1 |
| 65° | 12107.9 | 12215.3 | 12285.6 | 12787.5 | 13705.4 | 14562.7 | 13767.9 | 12842.2 | 12211.4 | 12022.0 |
| 67.5° | 12625.4 | 12684.0 | 12855.9 | 13424.2 | 14392.8 | 15371.2 | 14556.8 | 13484.7 | 12779.7 | 12447.7 |
| 70° | 11867.7 | 11748.6 | 12162.6 | 13072.6 | 14474.8 | 15867.2 | 14662.3 | 13045.3 | 12182.1 | 11643.1 |
| 72.5° | 9170.8 | 8965.7 | 9684.4 | 11240.8 | 13537.4 | 15550.9 | 13631.2 | 11328.7 | 10131.6 | 9038.0 |
| 75° | 4989.6 | 4757.2 | 5749.3 | 7717.8 | 10795.6 | 13478.9 | 11043.6 | 7938.5 | 6401.6 | 4952.5 |
| 77.5° | 1408.0 | 1320.2 | 2120.8 | 3733.9 | 6493.4 | 9463.7 | 6743.3 | 3815.9 | 2515.3 | 1492.0 |
| 80° | 431.6 | 417.9 | 566.3 | 1124.9 | 2757.5 | 4532.7 | 2650.1 | 1138.5 | 720.6 | 455.0 |
| 82.5° | 255.8 | 234.3 | 281.2 | 410.1 | 703.0 | 1423.7 | 683.5 | 427.7 | 343.7 | 230.4 |
| 85° | 146.5 | 136.7 | 166.0 | 199.2 | 236.3 | 302.7 | 197.2 | 203.1 | 183.6 | 123.0 |
| 87.5° | 60.5 | 54.7 | 64.4 | 62.5 | 54.7 | 70.3 | 52.7 | 62.5 | 74.2 | 48.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 3427.3 |
| 3415.6 |
| 3372.6 |
| 3325.8 |
| 3304.3 |
| 3304.3 |
| 3318.0 |
| 3343.3 |
| 3368.7 |
| 3380.5 |
| 3392.2 |
| 3421.5 |
| 3487.9 |
| 3591.4 |
| 3757.4 |
| 3987.8 |
| 4274.9 |
| 4640.1 |
| 5071.7 |
| 5563.8 |
| 6155.5 |
| 6872.2 |
| 7729.5 |
| 8702.1 |
| 9682.4 |
| 10821.0 |
| 11928.3 |
| 12451.6 |
| 11772.0 |
| 9309.4 |
| 5274.8 |
| 1658.0 |
| 480.4 |
| 250.0 |
| 128.9 |
| 44.9 |
| 0.0 |

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