

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: P944030

Luminaire Tested: **GALN-SB8D-750-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944030
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-SB8D-750-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 88057 lumens
Efficiency: N/A
Efficacy: 150.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

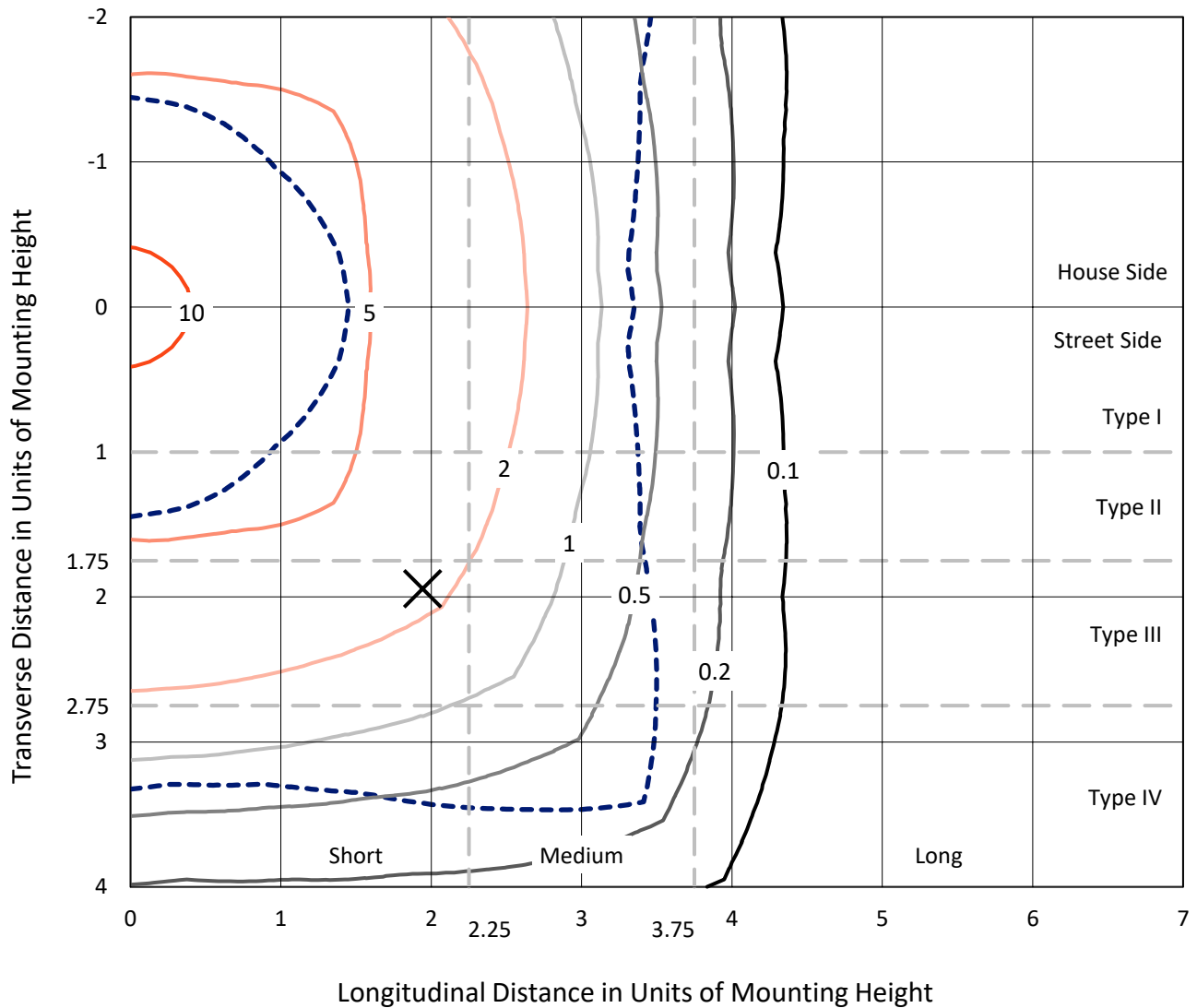
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

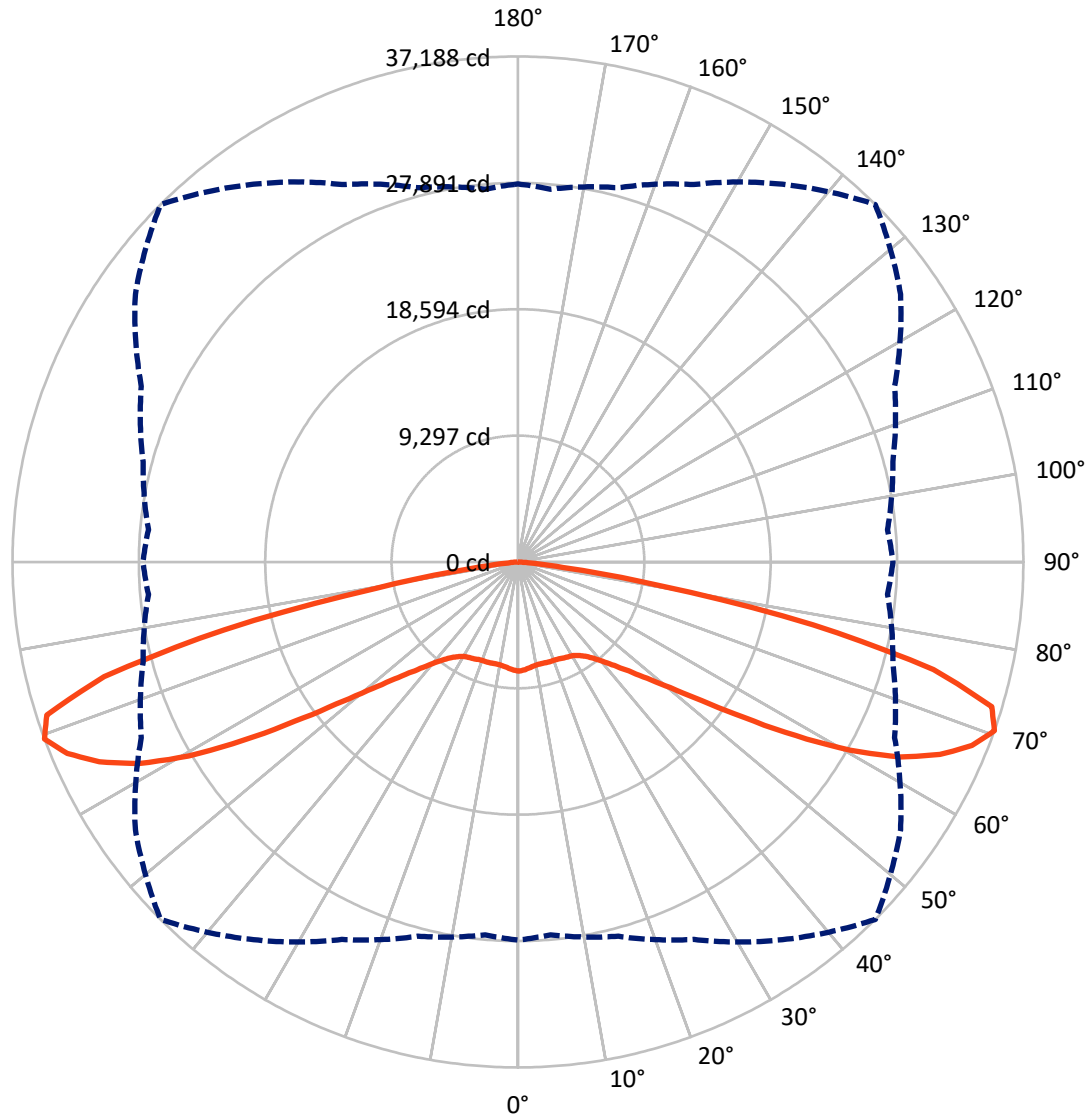
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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 | 44028.5 | 0.0 | 44028.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 44028.5 | 0.0 | 44028.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 88057.0 | 0.0 | 88057.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 747.2 | 0.8 |
| 10°-20° | 2194.0 | 2.5 |
| 20°-30° | 3651.2 | 4.1 |
| 30°-40° | 5521.7 | 6.3 |
| 40°-50° | 9175.7 | 10.4 |
| 50°-60° | 17314.2 | 19.7 |
| 60°-70° | 29235.7 | 33.2 |
| 70°-80° | 19210.9 | 21.8 |
| 80°-90° | 1006.5 | 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° | 88057.0 | 100.0 |
| 0°-180° | 88057.0 | 100.0 |

Coefficient of Utilization



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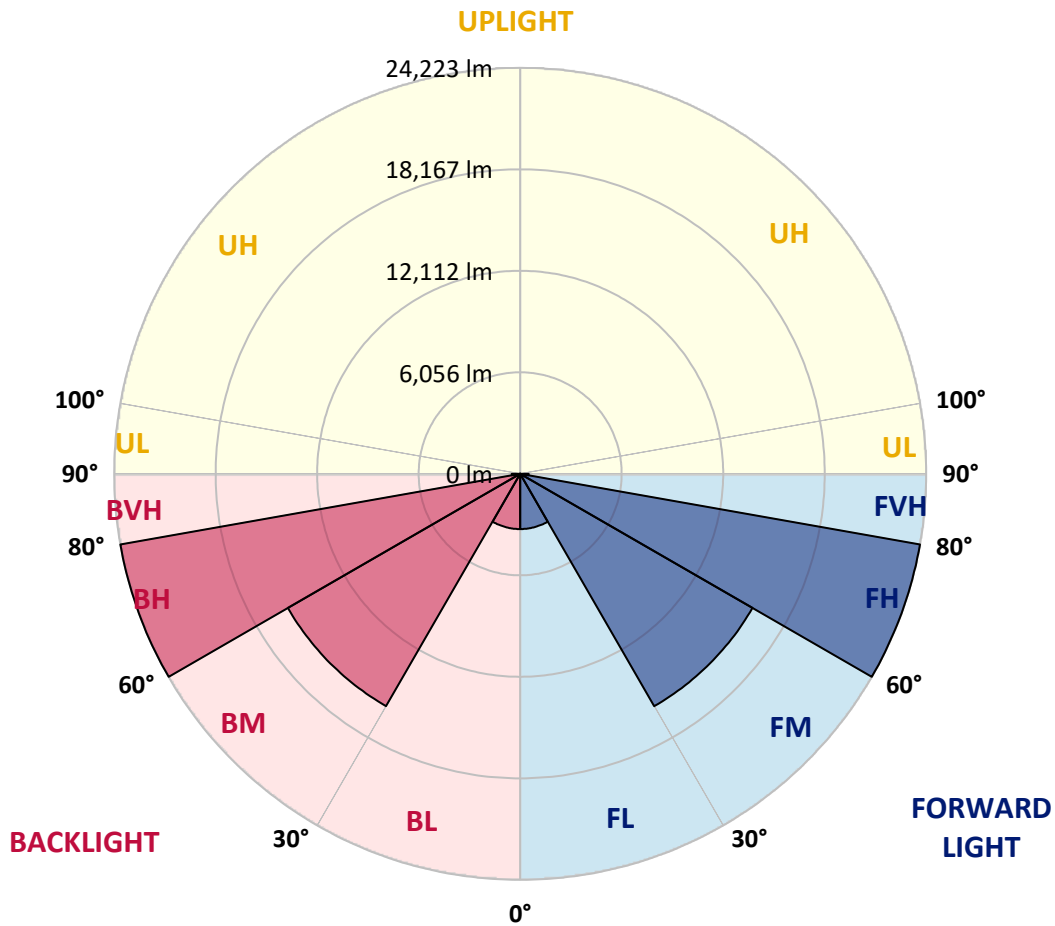
CATALOG NUMBER: GALN-SB8D-750-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3296.2 | 3.7 | | | |
| FM (30°-60°) | 16005.8 | 18.2 | | | |
| FH (60°-80°) | 24223.3 | 27.5 | | | G5 |
| FVH (80°-90°) | 503.2 | 0.6 | | | G4/750 |
| BL (0°-30°) | 3296.2 | 3.7 | B4/5000 | | |
| BM (30°-60°) | 16005.8 | 18.2 | B5 | | |
| BH (60°-80°) | 24223.3 | 27.5 | B5 | | G5 |
| BVH (80°-90°) | 503.2 | 0.6 | | | G4/750 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8032.6 | 8032.6 | 8032.6 | 8032.6 | 8032.6 | 8032.6 | 8032.6 | 8032.6 | 8032.6 | 8032.6 |
| 2.5° | 7982.2 | 8005.1 | 7996.0 | 7977.6 | 7977.6 | 7963.9 | 7977.6 | 7986.8 | 8000.5 | 8009.7 |
| 5° | 7877.0 | 7895.3 | 7890.7 | 7877.0 | 7881.5 | 7867.8 | 7877.0 | 7890.7 | 7899.8 | 7904.4 |
| 7.5° | 7785.4 | 7803.7 | 7794.6 | 7771.7 | 7771.7 | 7758.0 | 7762.5 | 7776.3 | 7790.0 | 7794.6 |
| 10° | 7762.5 | 7780.8 | 7753.4 | 7716.8 | 7703.0 | 7684.7 | 7689.3 | 7703.0 | 7730.5 | 7744.2 |
| 12.5° | 7771.7 | 7785.4 | 7758.0 | 7703.0 | 7689.3 | 7671.0 | 7671.0 | 7684.7 | 7721.3 | 7739.6 |
| 15° | 7799.1 | 7812.9 | 7771.7 | 7712.2 | 7698.5 | 7684.7 | 7680.1 | 7698.5 | 7739.6 | 7771.7 |
| 17.5° | 7849.5 | 7863.2 | 7799.1 | 7716.8 | 7698.5 | 7703.0 | 7698.5 | 7712.2 | 7776.3 | 7835.8 |
| 20° | 7895.3 | 7904.4 | 7817.5 | 7716.8 | 7698.5 | 7703.0 | 7698.5 | 7725.9 | 7808.3 | 7890.7 |
| 22.5° | 7909.0 | 7918.1 | 7835.8 | 7748.8 | 7735.1 | 7739.6 | 7735.1 | 7762.5 | 7840.3 | 7922.7 |
| 25° | 7913.6 | 7927.3 | 7863.2 | 7794.6 | 7817.5 | 7826.6 | 7817.5 | 7822.0 | 7881.5 | 7954.8 |
| 27.5° | 7982.2 | 8000.5 | 7941.0 | 7881.5 | 7895.3 | 7890.7 | 7904.4 | 7918.1 | 7963.9 | 8037.1 |
| 30° | 8124.1 | 8137.8 | 8087.5 | 8028.0 | 8018.8 | 7986.8 | 8028.0 | 8073.8 | 8124.1 | 8188.2 |
| 32.5° | 8357.5 | 8385.0 | 8320.9 | 8256.8 | 8215.6 | 8197.3 | 8229.4 | 8307.2 | 8375.8 | 8444.5 |
| 35° | 8746.6 | 8764.9 | 8705.4 | 8586.4 | 8513.2 | 8513.2 | 8540.6 | 8641.3 | 8751.2 | 8838.1 |
| 37.5° | 9295.8 | 9318.7 | 9213.4 | 9071.5 | 8961.7 | 8961.7 | 8998.3 | 9103.6 | 9268.4 | 9391.9 |
| 40° | 9964.1 | 9996.1 | 9863.4 | 9716.9 | 9611.6 | 9593.3 | 9639.1 | 9758.1 | 9913.7 | 10069.3 |
| 42.5° | 10769.6 | 10806.2 | 10632.3 | 10504.1 | 10421.7 | 10421.7 | 10444.6 | 10554.5 | 10696.4 | 10888.6 |
| 45° | 11799.4 | 11863.5 | 11625.5 | 11497.3 | 11419.5 | 11437.8 | 11451.6 | 11547.7 | 11675.8 | 11895.5 |
| 47.5° | 13026.0 | 13090.1 | 12838.4 | 12705.7 | 12691.9 | 12778.9 | 12724.0 | 12792.6 | 12861.3 | 13113.0 |
| 50° | 14417.4 | 14527.3 | 14353.4 | 14344.2 | 14371.7 | 14531.9 | 14403.7 | 14440.3 | 14362.5 | 14522.7 |
| 52.5° | 16120.1 | 16280.3 | 16248.2 | 16303.1 | 16609.8 | 16939.3 | 16646.4 | 16518.3 | 16225.3 | 16275.7 |
| 55° | 18184.3 | 18426.9 | 18472.6 | 18802.2 | 19497.9 | 20170.7 | 19548.2 | 19031.0 | 18408.5 | 18294.1 |
| 57.5° | 20532.3 | 20724.5 | 20944.2 | 21617.0 | 22916.9 | 24111.4 | 22916.9 | 21772.6 | 20793.1 | 20559.7 |
| 60° | 23058.7 | 23296.7 | 23507.3 | 24500.5 | 26432.0 | 28111.7 | 26395.3 | 24578.3 | 23283.0 | 22967.2 |
| 62.5° | 25772.9 | 26079.5 | 26226.0 | 27329.1 | 29580.9 | 31585.6 | 29613.0 | 27411.4 | 25974.3 | 25635.6 |
| 65° | 28377.2 | 28628.9 | 28793.7 | 29970.0 | 32121.1 | 34130.4 | 32267.6 | 30098.1 | 28619.8 | 28175.8 |
| 67.5° | 29590.1 | 29727.4 | 30130.2 | 31462.0 | 33732.2 | 36025.3 | 34116.7 | 31603.9 | 29951.7 | 29173.6 |
| 70° | 27814.2 | 27535.0 | 28505.3 | 30638.2 | 33924.5 | 37187.8 | 34363.8 | 30574.1 | 28551.1 | 27287.9 |
| 72.5° | 21493.4 | 21012.8 | 22697.2 | 26345.0 | 31727.5 | 36446.4 | 31947.2 | 26551.0 | 23745.3 | 21182.2 |
| 75° | 11694.1 | 11149.5 | 13474.6 | 18088.2 | 25301.5 | 31590.2 | 25882.7 | 18605.4 | 15003.3 | 11607.2 |
| 77.5° | 3300.0 | 3094.0 | 4970.6 | 8751.2 | 15218.4 | 22180.0 | 15804.3 | 8943.4 | 5895.1 | 3496.8 |
| 80° | 1011.5 | 979.5 | 1327.3 | 2636.3 | 6462.7 | 10623.1 | 6210.9 | 2668.4 | 1688.9 | 1066.4 |
| 82.5° | 599.6 | 549.2 | 659.1 | 961.2 | 1647.7 | 3336.6 | 1601.9 | 1002.4 | 805.5 | 540.1 |
| 85° | 343.3 | 320.4 | 389.0 | 466.9 | 553.8 | 709.4 | 462.3 | 476.0 | 430.2 | 288.3 |
| 87.5° | 141.9 | 128.2 | 151.0 | 146.5 | 128.2 | 164.8 | 123.6 | 146.5 | 173.9 | 114.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 8032.6 |
| 8005.1 |
| 7904.4 |
| 7794.6 |
| 7744.2 |
| 7744.2 |
| 7776.3 |
| 7835.8 |
| 7895.3 |
| 7922.7 |
| 7950.2 |
| 8018.8 |
| 8174.5 |
| 8417.0 |
| 8806.1 |
| 9346.2 |
| 10019.0 |
| 10874.9 |
| 11886.4 |
| 13039.8 |
| 14426.6 |
| 16106.3 |
| 18115.6 |
| 20395.0 |
| 22692.6 |
| 25361.0 |
| 27956.1 |
| 29182.7 |
| 27589.9 |
| 21818.4 |
| 12362.4 |
| 3885.8 |
| 1125.9 |
| 585.9 |
| 302.1 |
| 105.3 |
| 0.0 |

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