

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: P944060

Luminaire Tested: **GALN-SB8D-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944060
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-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 74788 lumens
Efficiency: N/A
Efficacy: 127.9 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

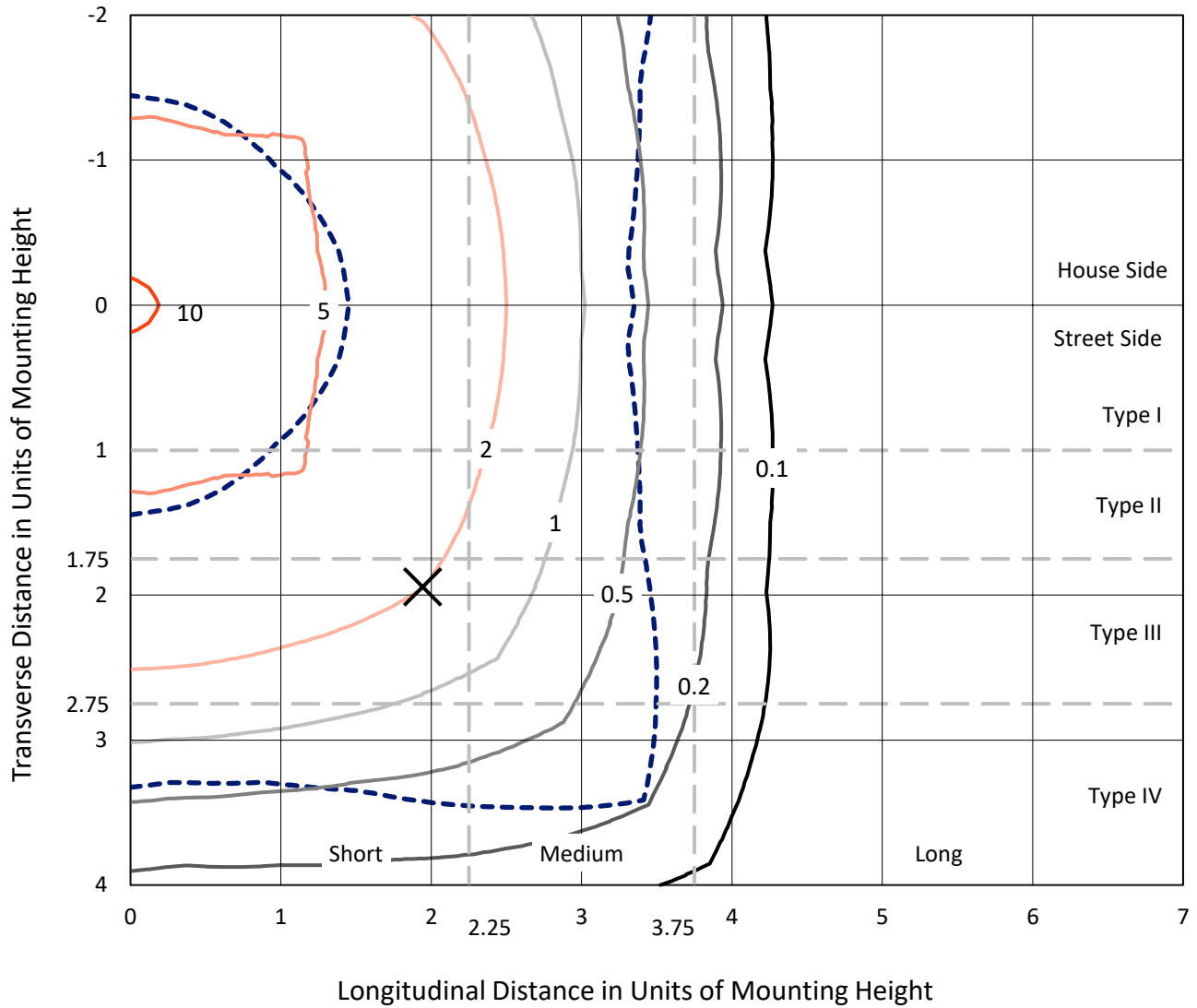
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

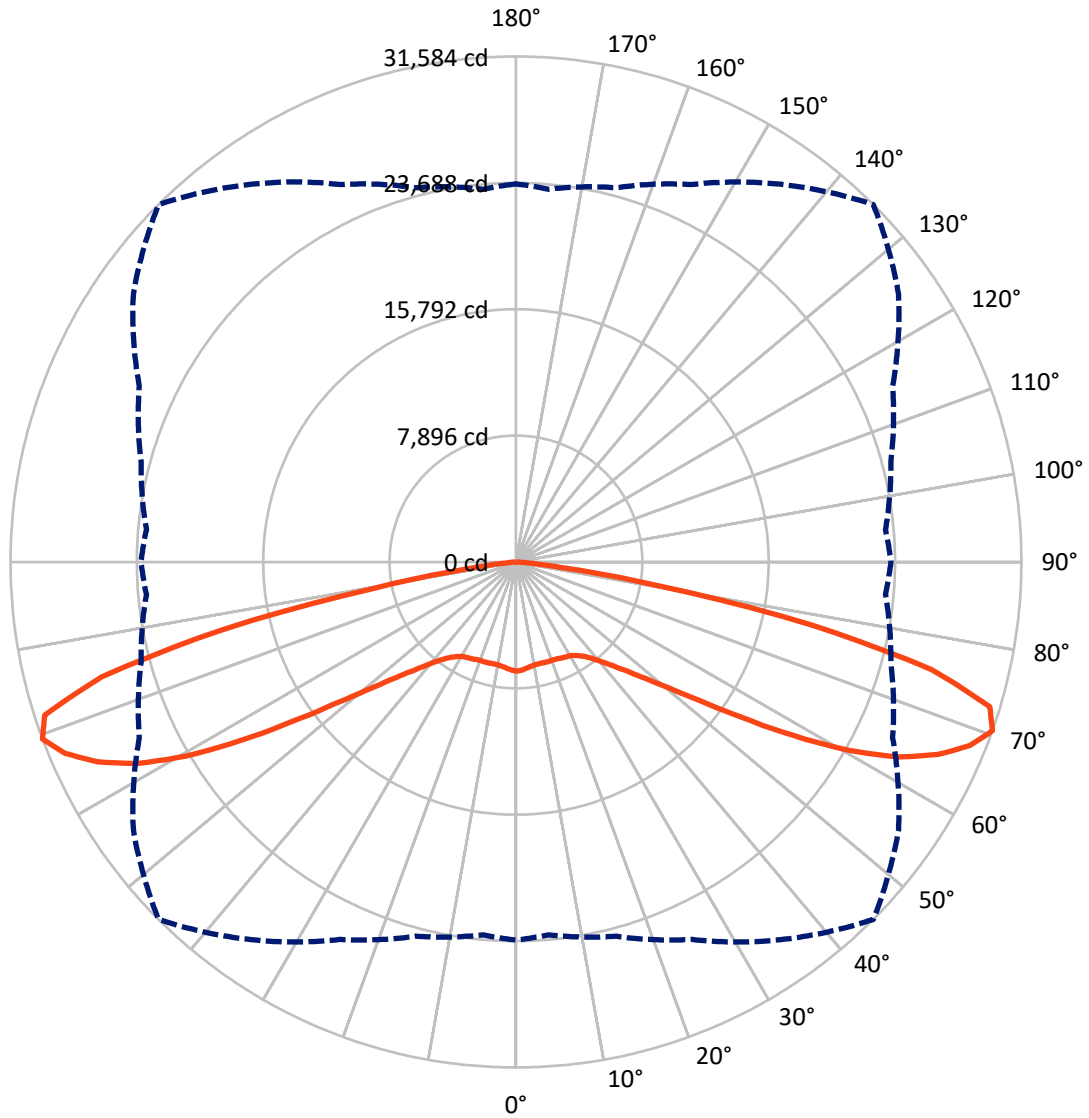
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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 | 37394.0 | 0.0 | 37394.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 37394.0 | 0.0 | 37394.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 74788.0 | 0.0 | 74788.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 634.6 | 0.8 |
| 10°-20° | 1863.4 | 2.5 |
| 20°-30° | 3101.0 | 4.1 |
| 30°-40° | 4689.6 | 6.3 |
| 40°-50° | 7793.0 | 10.4 |
| 50°-60° | 14705.2 | 19.7 |
| 60°-70° | 24830.3 | 33.2 |
| 70°-80° | 16316.1 | 21.8 |
| 80°-90° | 854.8 | 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° | 74788.0 | 100.0 |
| 0°-180° | 74788.0 | 100.0 |

Coefficient of Utilization



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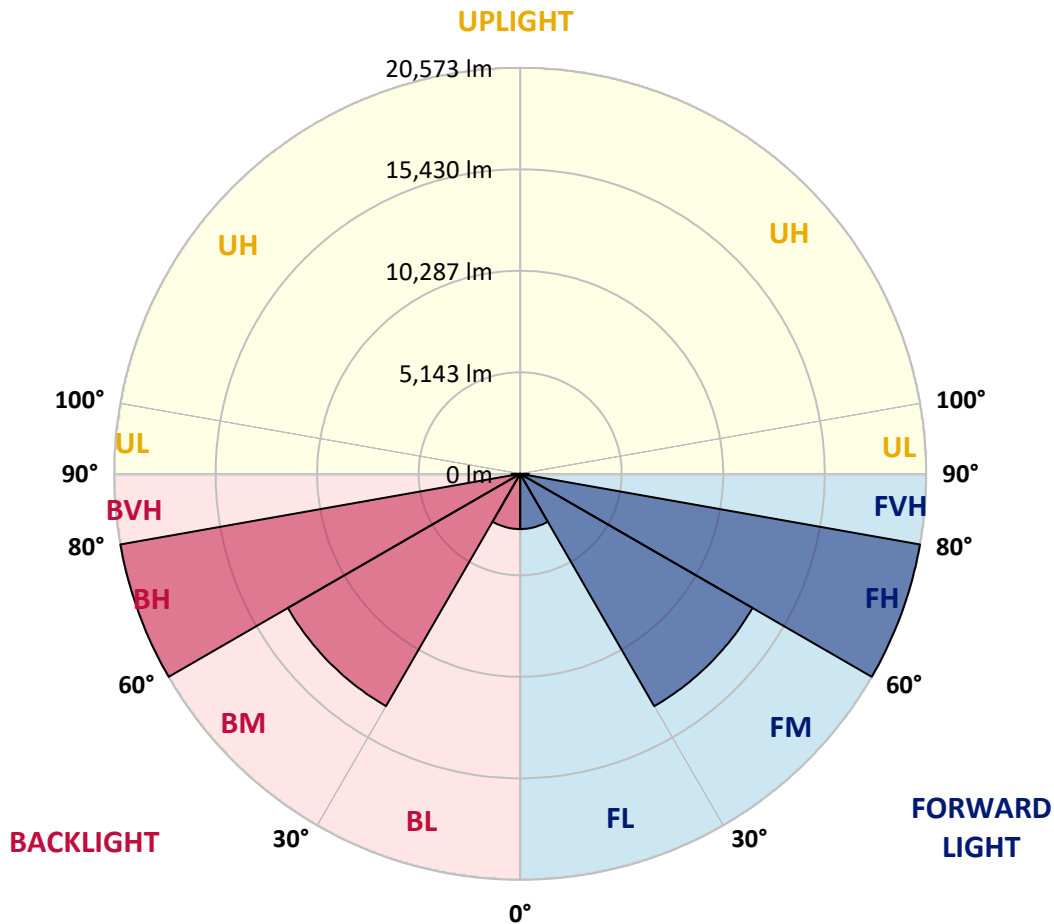
CATALOG NUMBER: GALN-SB8D-830-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2799.5 | 3.7 | | | |
| FM (30°-60°) | 13593.9 | 18.2 | | | |
| FH (60°-80°) | 20573.2 | 27.5 | | | G5 |
| FVH (80°-90°) | 427.4 | 0.6 | | | G3/500 |
| BL (0°-30°) | 2799.5 | 3.7 | B4/5000 | | |
| BM (30°-60°) | 13593.9 | 18.2 | B5 | | |
| BH (60°-80°) | 20573.2 | 27.5 | B5 | | G5 |
| BVH (80°-90°) | 427.4 | 0.6 | | | G3/500 |
| 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° | 6822.2 | 6822.2 | 6822.2 | 6822.2 | 6822.2 | 6822.2 | 6822.2 | 6822.2 | 6822.2 | 6822.2 |
| 2.5° | 6779.4 | 6798.8 | 6791.1 | 6775.5 | 6775.5 | 6763.9 | 6775.5 | 6783.3 | 6795.0 | 6802.7 |
| 5° | 6690.0 | 6705.6 | 6701.7 | 6690.0 | 6693.9 | 6682.2 | 6690.0 | 6701.7 | 6709.4 | 6713.3 |
| 7.5° | 6612.3 | 6627.8 | 6620.0 | 6600.6 | 6600.6 | 6588.9 | 6592.8 | 6604.5 | 6616.1 | 6620.0 |
| 10° | 6592.8 | 6608.4 | 6585.0 | 6553.9 | 6542.3 | 6526.7 | 6530.6 | 6542.3 | 6565.6 | 6577.3 |
| 12.5° | 6600.6 | 6612.3 | 6588.9 | 6542.3 | 6530.6 | 6515.1 | 6515.1 | 6526.7 | 6557.8 | 6573.4 |
| 15° | 6623.9 | 6635.6 | 6600.6 | 6550.1 | 6538.4 | 6526.7 | 6522.9 | 6538.4 | 6573.4 | 6600.6 |
| 17.5° | 6666.7 | 6678.3 | 6623.9 | 6553.9 | 6538.4 | 6542.3 | 6538.4 | 6550.1 | 6604.5 | 6655.0 |
| 20° | 6705.6 | 6713.3 | 6639.5 | 6553.9 | 6538.4 | 6542.3 | 6538.4 | 6561.7 | 6631.7 | 6701.7 |
| 22.5° | 6717.2 | 6725.0 | 6655.0 | 6581.2 | 6569.5 | 6573.4 | 6569.5 | 6592.8 | 6658.9 | 6728.9 |
| 25° | 6721.1 | 6732.8 | 6678.3 | 6620.0 | 6639.5 | 6647.2 | 6639.5 | 6643.4 | 6693.9 | 6756.1 |
| 27.5° | 6779.4 | 6795.0 | 6744.4 | 6693.9 | 6705.6 | 6701.7 | 6713.3 | 6725.0 | 6763.9 | 6826.1 |
| 30° | 6899.9 | 6911.6 | 6868.8 | 6818.3 | 6810.5 | 6783.3 | 6818.3 | 6857.2 | 6899.9 | 6954.3 |
| 32.5° | 7098.2 | 7121.5 | 7067.1 | 7012.6 | 6977.7 | 6962.1 | 6989.3 | 7055.4 | 7113.7 | 7172.0 |
| 35° | 7428.6 | 7444.1 | 7393.6 | 7292.5 | 7230.3 | 7230.3 | 7253.7 | 7339.2 | 7432.5 | 7506.3 |
| 37.5° | 7895.1 | 7914.5 | 7825.1 | 7704.6 | 7611.3 | 7611.3 | 7642.4 | 7731.8 | 7871.7 | 7976.7 |
| 40° | 8462.6 | 8489.8 | 8377.1 | 8252.7 | 8163.3 | 8147.7 | 8186.6 | 8287.7 | 8419.8 | 8552.0 |
| 42.5° | 9146.8 | 9177.9 | 9030.1 | 8921.3 | 8851.3 | 8851.3 | 8870.8 | 8964.1 | 9084.6 | 9247.8 |
| 45° | 10021.4 | 10075.8 | 9873.7 | 9764.8 | 9698.8 | 9714.3 | 9726.0 | 9807.6 | 9916.4 | 10103.0 |
| 47.5° | 11063.2 | 11117.6 | 10903.8 | 10791.1 | 10779.4 | 10853.3 | 10806.6 | 10864.9 | 10923.2 | 11137.0 |
| 50° | 12244.9 | 12338.2 | 12190.5 | 12182.7 | 12206.1 | 12342.1 | 12233.3 | 12264.4 | 12198.3 | 12334.3 |
| 52.5° | 13691.0 | 13827.0 | 13799.8 | 13846.5 | 14106.9 | 14386.8 | 14138.0 | 14029.2 | 13780.4 | 13823.2 |
| 55° | 15444.2 | 15650.2 | 15689.1 | 15968.9 | 16559.8 | 17131.2 | 16602.6 | 16163.3 | 15634.6 | 15537.4 |
| 57.5° | 17438.3 | 17601.6 | 17788.2 | 18359.6 | 19463.6 | 20478.2 | 19463.6 | 18491.8 | 17659.9 | 17461.6 |
| 60° | 19584.1 | 19786.2 | 19965.1 | 20808.6 | 22449.0 | 23875.7 | 22417.9 | 20874.7 | 19774.6 | 19506.4 |
| 62.5° | 21889.3 | 22149.7 | 22274.1 | 23210.9 | 25123.5 | 26826.1 | 25150.7 | 23280.9 | 22060.3 | 21772.6 |
| 65° | 24101.1 | 24314.9 | 24454.9 | 25453.9 | 27280.9 | 28987.4 | 27405.3 | 25562.7 | 24307.1 | 23930.1 |
| 67.5° | 25131.2 | 25247.9 | 25589.9 | 26721.1 | 28649.2 | 30596.8 | 28975.8 | 26841.6 | 25438.3 | 24777.5 |
| 70° | 23623.0 | 23385.9 | 24210.0 | 26021.4 | 28812.5 | 31584.1 | 29185.7 | 25967.0 | 24248.8 | 23175.9 |
| 72.5° | 18254.7 | 17846.5 | 19277.0 | 22375.2 | 26946.6 | 30954.4 | 27133.2 | 22550.1 | 20167.2 | 17990.3 |
| 75° | 9932.0 | 9469.4 | 11444.1 | 15362.5 | 21488.9 | 26830.0 | 21982.6 | 15801.8 | 12742.5 | 9858.1 |
| 77.5° | 2802.7 | 2627.8 | 4221.6 | 7432.5 | 12925.2 | 18837.7 | 13422.8 | 7595.7 | 5006.8 | 2969.9 |
| 80° | 859.1 | 831.9 | 1127.3 | 2239.1 | 5488.8 | 9022.4 | 5275.0 | 2266.3 | 1434.4 | 905.7 |
| 82.5° | 509.2 | 466.5 | 559.8 | 816.3 | 1399.4 | 2833.8 | 1360.5 | 851.3 | 684.2 | 458.7 |
| 85° | 291.5 | 272.1 | 330.4 | 396.5 | 470.4 | 602.5 | 392.6 | 404.3 | 365.4 | 244.9 |
| 87.5° | 120.5 | 108.8 | 128.3 | 124.4 | 108.8 | 139.9 | 105.0 | 124.4 | 147.7 | 97.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| 90° |
|---------|
| 6822.2 |
| 6798.8 |
| 6713.3 |
| 6620.0 |
| 6577.3 |
| 6577.3 |
| 6604.5 |
| 6655.0 |
| 6705.6 |
| 6728.9 |
| 6752.2 |
| 6810.5 |
| 6942.7 |
| 7148.7 |
| 7479.1 |
| 7937.8 |
| 8509.2 |
| 9236.2 |
| 10095.3 |
| 11074.9 |
| 12252.7 |
| 13679.3 |
| 15385.8 |
| 17321.7 |
| 19273.1 |
| 21539.4 |
| 23743.5 |
| 24785.3 |
| 23432.5 |
| 18530.7 |
| 10499.5 |
| 3300.3 |
| 956.3 |
| 497.6 |
| 256.6 |
| 89.4 |
| 0.0 |

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