

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: STREETWORKS

Report Number: P850734

Luminaire Tested: **GLAN-SB8B-850-U-T1**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB8B-850-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38677 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

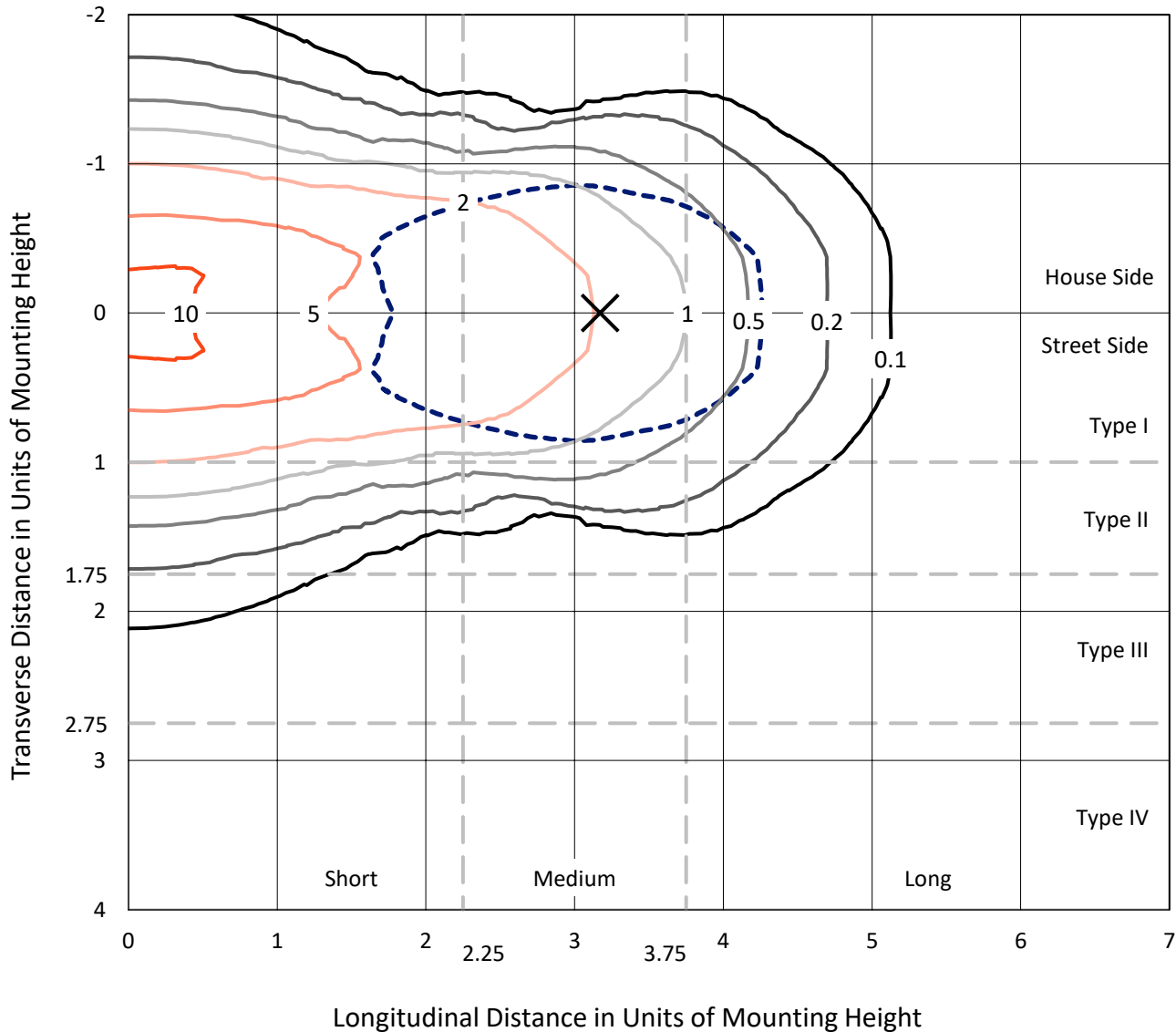
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

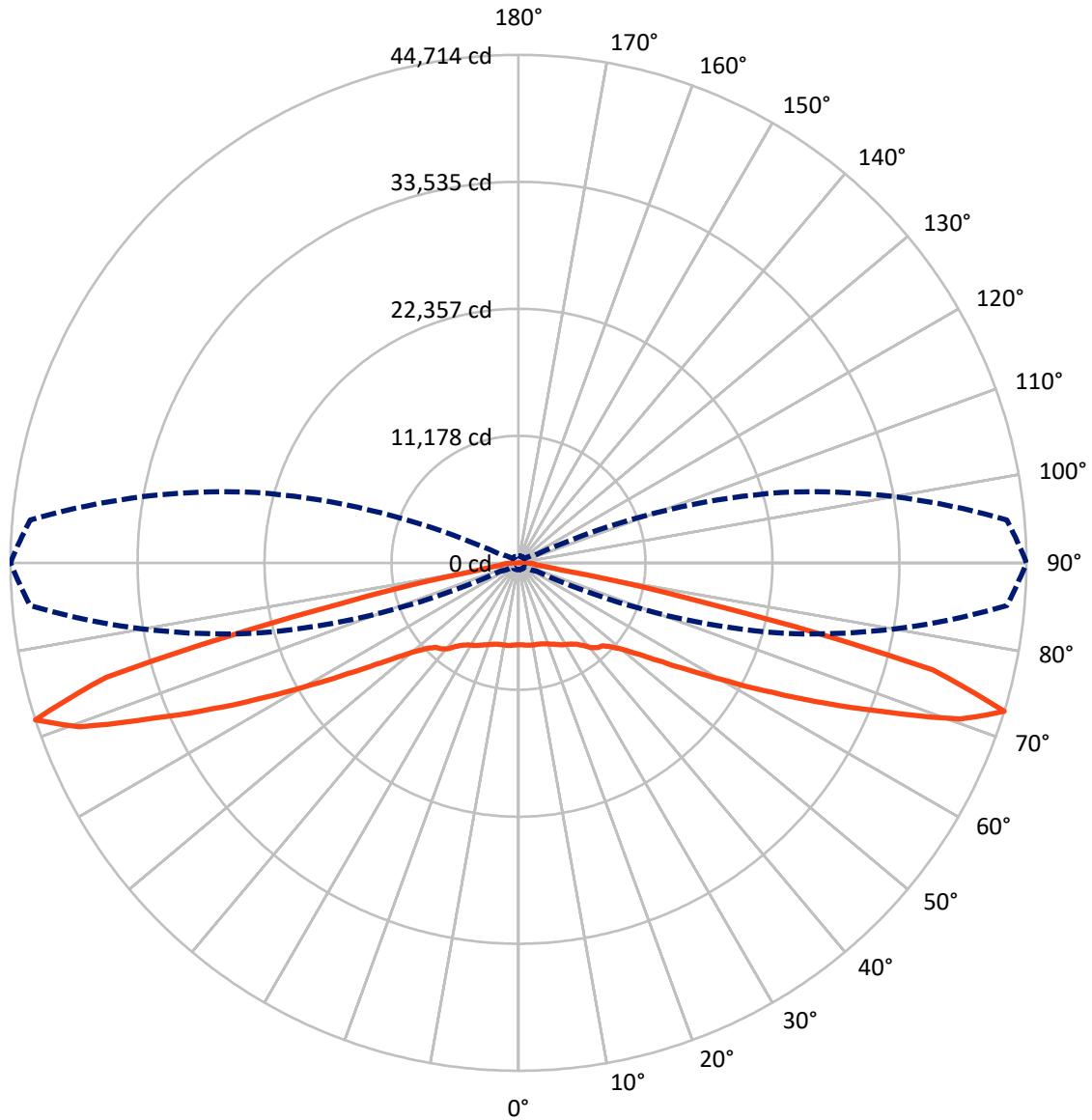
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19338.5 | 0.0 | 19338.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 19338.5 | 0.0 | 19338.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 38677.0 | 0.0 | 38677.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 700.8 | 1.8 |
| 10°-20° | 2142.7 | 5.5 |
| 20°-30° | 3572.7 | 9.2 |
| 30°-40° | 4913.6 | 12.7 |
| 40°-50° | 6000.8 | 15.5 |
| 50°-60° | 6940.6 | 17.9 |
| 60°-70° | 8275.5 | 21.4 |
| 70°-80° | 5775.7 | 14.9 |
| 80°-90° | 354.8 | 0.9 |
| 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° | 38677.0 | 100.0 |
| 0°-180° | 38677.0 | 100.0 |

Coefficient of Utilization

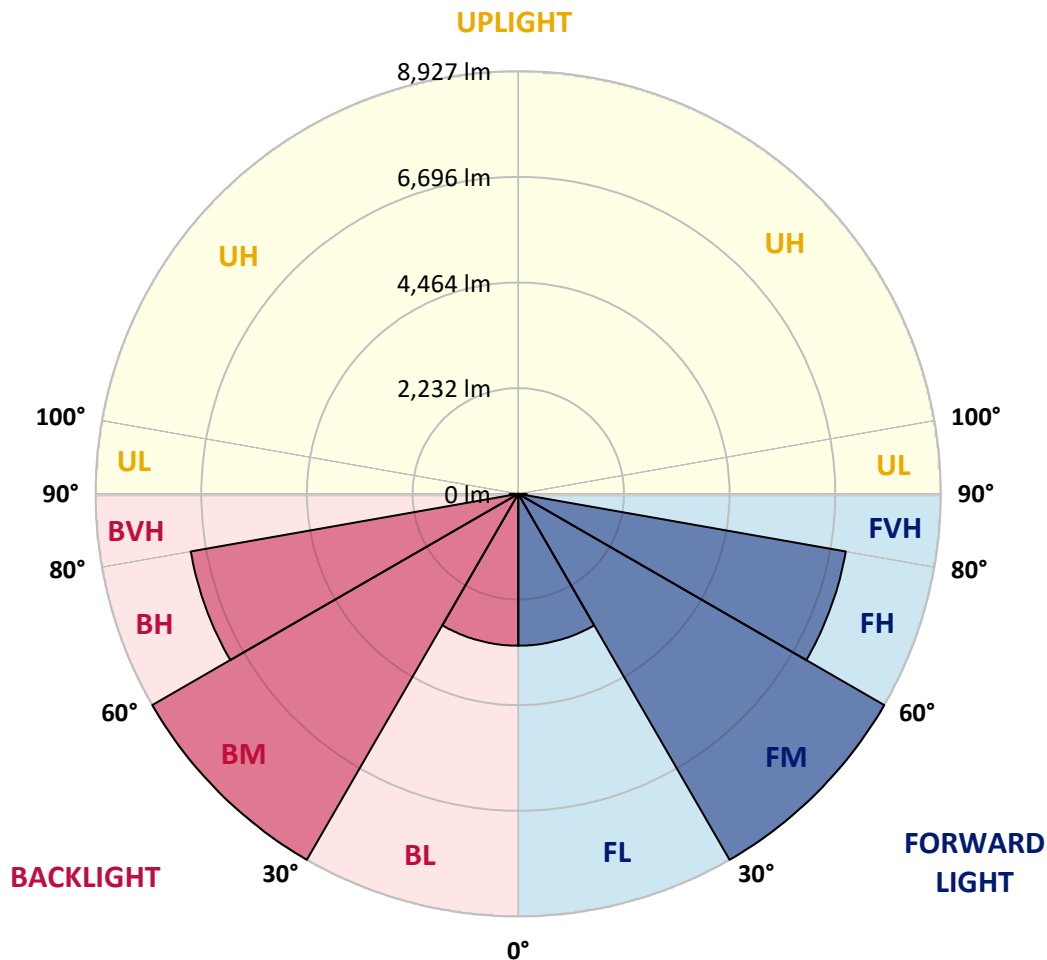


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3208.1 | 8.3 | | | |
| FM (30°-60°) | 8927.5 | 23.1 | | | |
| FH (60°-80°) | 7025.6 | 18.2 | | | G3/7500 |
| FVH (80°-90°) | 177.4 | 0.5 | | | G2/225 |
| BL (0°-30°) | 3208.1 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 8927.5 | 23.1 | B5 | | |
| BH (60°-80°) | 7025.6 | 18.2 | B5 | | G5 |
| BVH (80°-90°) | 177.4 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 7227.2 | 7227.2 | 7227.2 | 7227.2 | 7227.2 | 7227.2 | 7227.2 | 7227.2 | 7227.2 | 7227.2 |
| 2.5° | 7233.4 | 7241.6 | 7241.6 | 7235.4 | 7249.8 | 7237.5 | 7237.5 | 7231.3 | 7237.5 | 7231.3 |
| 5° | 7270.4 | 7280.6 | 7284.8 | 7282.7 | 7301.2 | 7290.9 | 7290.9 | 7282.7 | 7284.8 | 7278.6 |
| 7.5° | 7340.3 | 7354.6 | 7362.9 | 7373.1 | 7399.9 | 7387.5 | 7379.3 | 7354.6 | 7344.4 | 7327.9 |
| 10° | 7362.9 | 7379.3 | 7406.0 | 7459.5 | 7521.1 | 7523.2 | 7498.5 | 7436.9 | 7389.6 | 7352.6 |
| 12.5° | 7293.0 | 7315.6 | 7371.1 | 7480.0 | 7617.8 | 7673.3 | 7634.2 | 7531.4 | 7438.9 | 7373.1 |
| 15° | 7204.6 | 7229.3 | 7313.5 | 7478.0 | 7681.5 | 7811.0 | 7806.9 | 7671.2 | 7523.2 | 7420.4 |
| 17.5° | 7066.9 | 7091.5 | 7212.8 | 7443.0 | 7730.8 | 7944.6 | 8002.1 | 7862.4 | 7654.8 | 7517.0 |
| 20° | 6818.2 | 6840.8 | 7009.3 | 7332.0 | 7747.3 | 8086.4 | 8236.5 | 8113.1 | 7854.1 | 7667.1 |
| 22.5° | 6495.4 | 6530.4 | 6727.7 | 7140.9 | 7708.2 | 8234.4 | 8503.7 | 8419.4 | 8086.4 | 7827.4 |
| 25° | 6150.1 | 6187.1 | 6417.3 | 6906.5 | 7607.5 | 8341.3 | 8820.2 | 8766.8 | 8349.5 | 8026.8 |
| 27.5° | 5852.1 | 5891.1 | 6141.9 | 6674.3 | 7451.3 | 8382.4 | 9132.7 | 9159.4 | 8668.1 | 8246.7 |
| 30° | 5617.7 | 5654.7 | 5922.0 | 6487.2 | 7249.8 | 8341.3 | 9406.1 | 9591.1 | 8992.9 | 8437.9 |
| 32.5° | 5360.8 | 5408.1 | 5689.7 | 6259.1 | 7011.4 | 8242.6 | 9644.5 | 10057.7 | 9369.1 | 8643.5 |
| 35° | 5036.0 | 5079.2 | 5375.2 | 5946.6 | 6698.9 | 8084.4 | 9843.9 | 10575.6 | 9907.6 | 8955.9 |
| 37.5° | 4641.4 | 4682.5 | 4976.4 | 5556.1 | 6388.6 | 7862.4 | 9996.0 | 11159.4 | 10548.9 | 9406.1 |
| 40° | 4244.6 | 4283.7 | 4559.1 | 5120.3 | 6016.5 | 7578.7 | 10049.4 | 11730.8 | 11284.8 | 10024.8 |
| 42.5° | 3880.8 | 3915.8 | 4168.6 | 4690.7 | 5599.2 | 7216.9 | 9979.5 | 12228.3 | 11944.6 | 10456.4 |
| 45° | 3545.8 | 3576.6 | 3800.7 | 4287.8 | 5165.5 | 6777.0 | 9769.9 | 12762.7 | 12729.8 | 10764.8 |
| 47.5° | 3163.4 | 3194.3 | 3426.6 | 3897.3 | 4731.8 | 6261.1 | 9414.3 | 13288.9 | 13821.3 | 11463.6 |
| 50° | 2696.8 | 2723.6 | 2962.0 | 3447.1 | 4281.6 | 5712.3 | 8921.0 | 13702.1 | 15198.5 | 12522.2 |
| 52.5° | 2143.9 | 2172.7 | 2405.0 | 2890.1 | 3747.2 | 5122.4 | 8271.4 | 13971.4 | 16789.5 | 14068.0 |
| 55° | 1595.1 | 1615.6 | 1817.1 | 2252.8 | 3085.3 | 4450.2 | 7457.4 | 14047.4 | 18594.2 | 16181.0 |
| 57.5° | 1157.3 | 1169.6 | 1299.1 | 1623.9 | 2339.2 | 3609.5 | 6468.7 | 13850.1 | 20742.2 | 18890.2 |
| 60° | 937.3 | 941.4 | 980.5 | 1124.4 | 1625.9 | 2659.8 | 5274.5 | 13171.8 | 23073.2 | 22382.5 |
| 62.5° | 851.0 | 851.0 | 861.3 | 900.3 | 1099.7 | 1755.4 | 3829.4 | 11765.8 | 25572.7 | 26795.7 |
| 65° | 791.4 | 791.4 | 795.5 | 814.0 | 867.4 | 1118.2 | 2417.3 | 9475.9 | 27679.6 | 31965.4 |
| 67.5° | 737.9 | 740.0 | 737.9 | 744.1 | 774.9 | 826.3 | 1401.9 | 6544.8 | 28814.3 | 37322.1 |
| 70° | 682.4 | 686.5 | 676.3 | 676.3 | 700.9 | 703.0 | 877.7 | 3588.9 | 27872.8 | 41811.3 |
| 72.5° | 616.7 | 622.8 | 606.4 | 602.3 | 620.8 | 612.5 | 659.8 | 1722.5 | 23930.4 | 43151.5 |
| 75° | 559.1 | 567.3 | 530.3 | 520.0 | 520.0 | 513.9 | 536.5 | 883.9 | 15531.5 | 35200.8 |
| 77.5° | 507.7 | 524.2 | 464.5 | 431.7 | 423.4 | 404.9 | 437.8 | 540.6 | 6793.5 | 16526.4 |
| 80° | 419.3 | 441.9 | 382.3 | 343.3 | 328.9 | 308.3 | 345.3 | 378.2 | 2020.6 | 3837.7 |
| 82.5° | 312.4 | 322.7 | 271.3 | 244.6 | 232.3 | 217.9 | 259.0 | 263.1 | 657.8 | 1358.7 |
| 85° | 199.4 | 203.5 | 166.5 | 143.9 | 137.7 | 131.6 | 164.4 | 143.9 | 250.8 | 999.0 |
| 87.5° | 69.9 | 80.2 | 63.7 | 57.6 | 61.7 | 51.4 | 76.1 | 43.2 | 69.9 | 705.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

7227.2
7231.3
7278.6
7327.9
7346.4
7362.9
7404.0
7494.4
7632.1
7780.1
7961.0
8176.9
8337.2
8516.0
8814.1
9216.9
9823.3
10197.4
10415.3
11060.7
12016.6
13445.2
15402.0
17909.7
21147.2
25141.1
29872.9
35063.0
41217.3
44713.7
37650.9
16183.1
3675.3
1535.5
1451.2
873.6
0.0

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