

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: P846471

Luminaire Tested: **GLAN-SB2A-840-U-5WQ**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB2A-840-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8070 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

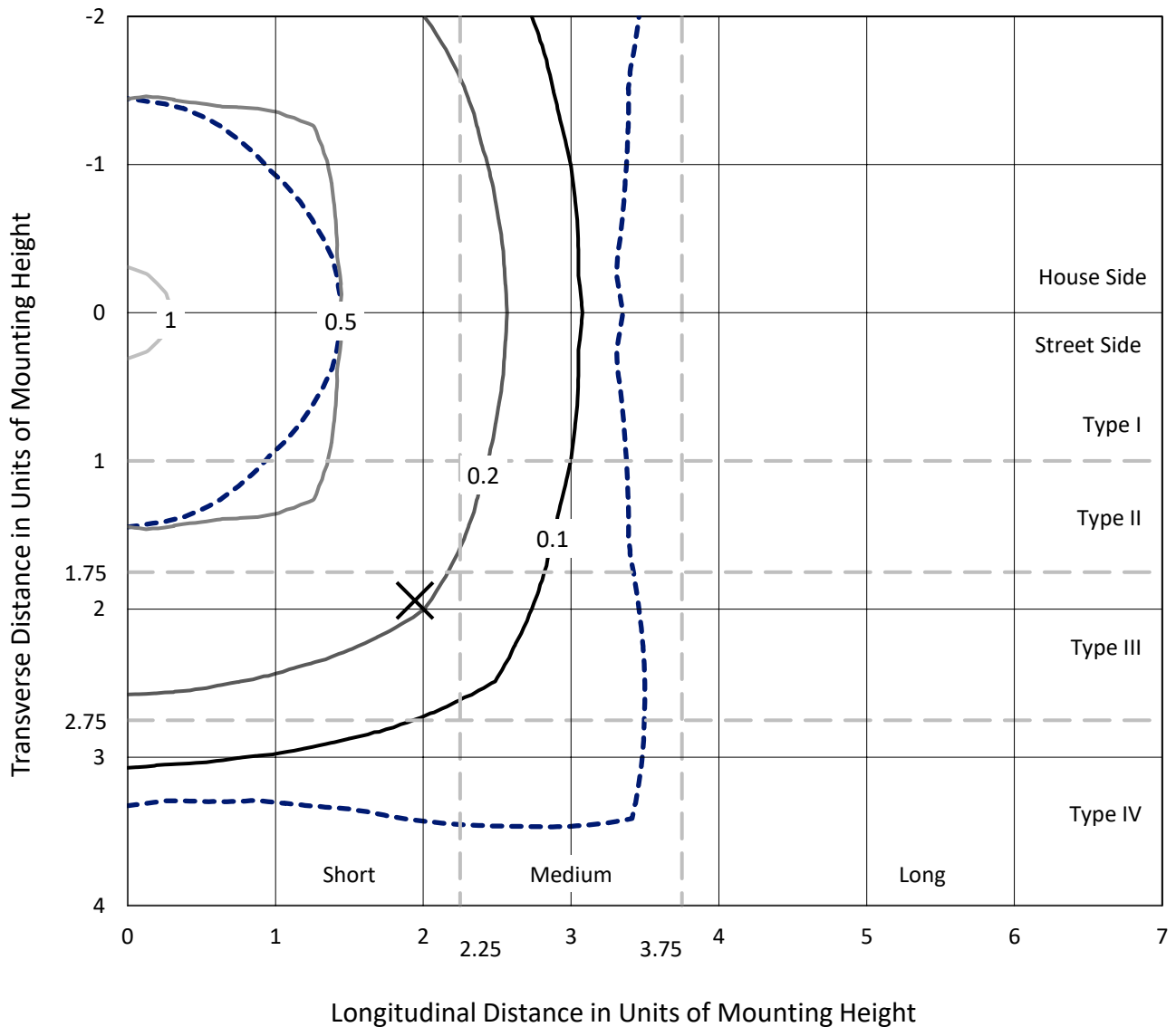
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

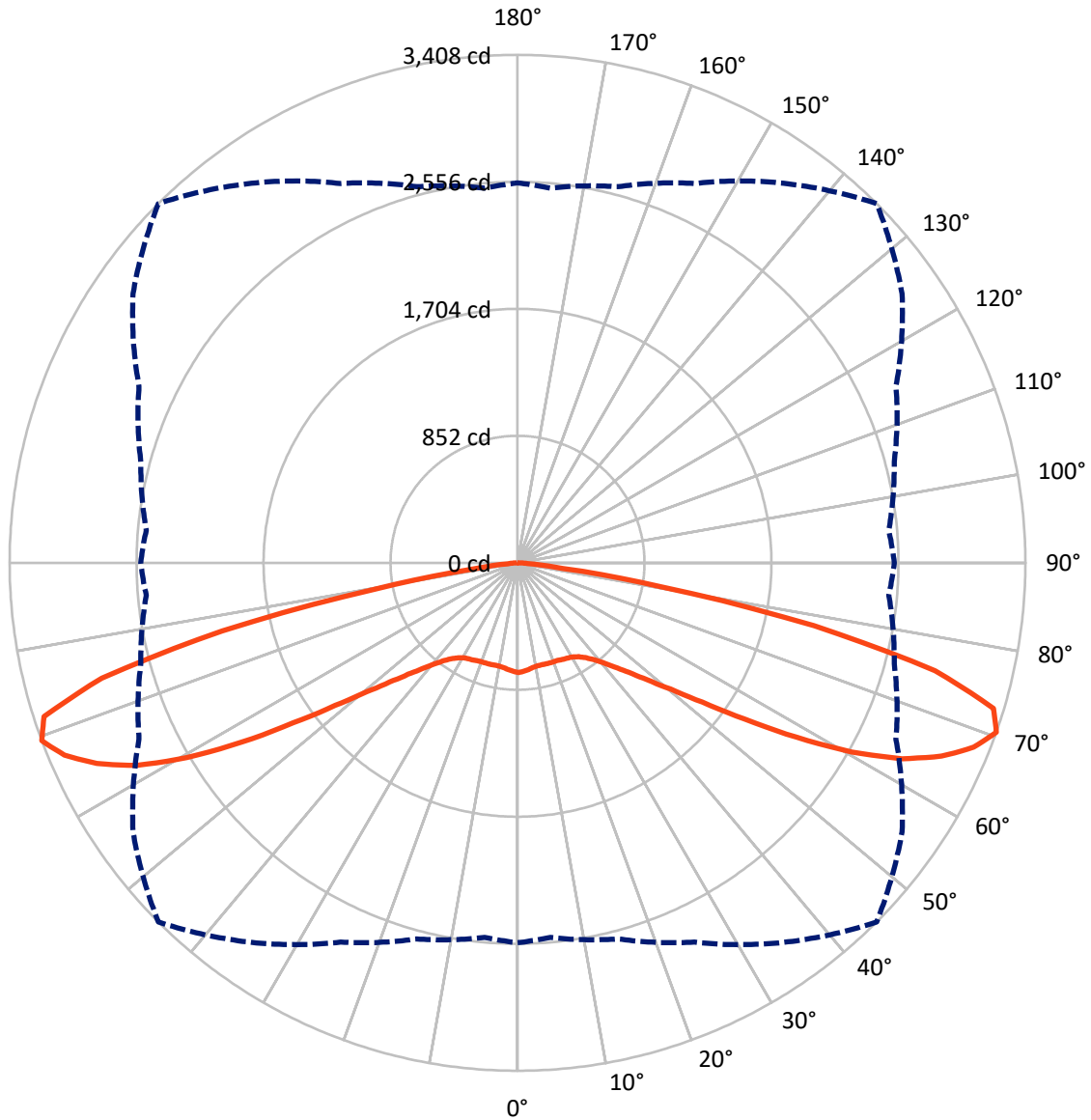
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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 | 4035.0 | 0.0 | 4035.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4035.0 | 0.0 | 4035.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8070.0 | 0.0 | 8070.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.5 | 0.8 |
| 10°-20° | 201.1 | 2.5 |
| 20°-30° | 334.6 | 4.1 |
| 30°-40° | 506.0 | 6.3 |
| 40°-50° | 840.9 | 10.4 |
| 50°-60° | 1586.8 | 19.7 |
| 60°-70° | 2679.3 | 33.2 |
| 70°-80° | 1760.6 | 21.8 |
| 80°-90° | 92.2 | 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° | 8070.0 | 100.0 |
| 0°-180° | 8070.0 | 100.0 |

Coefficient of Utilization



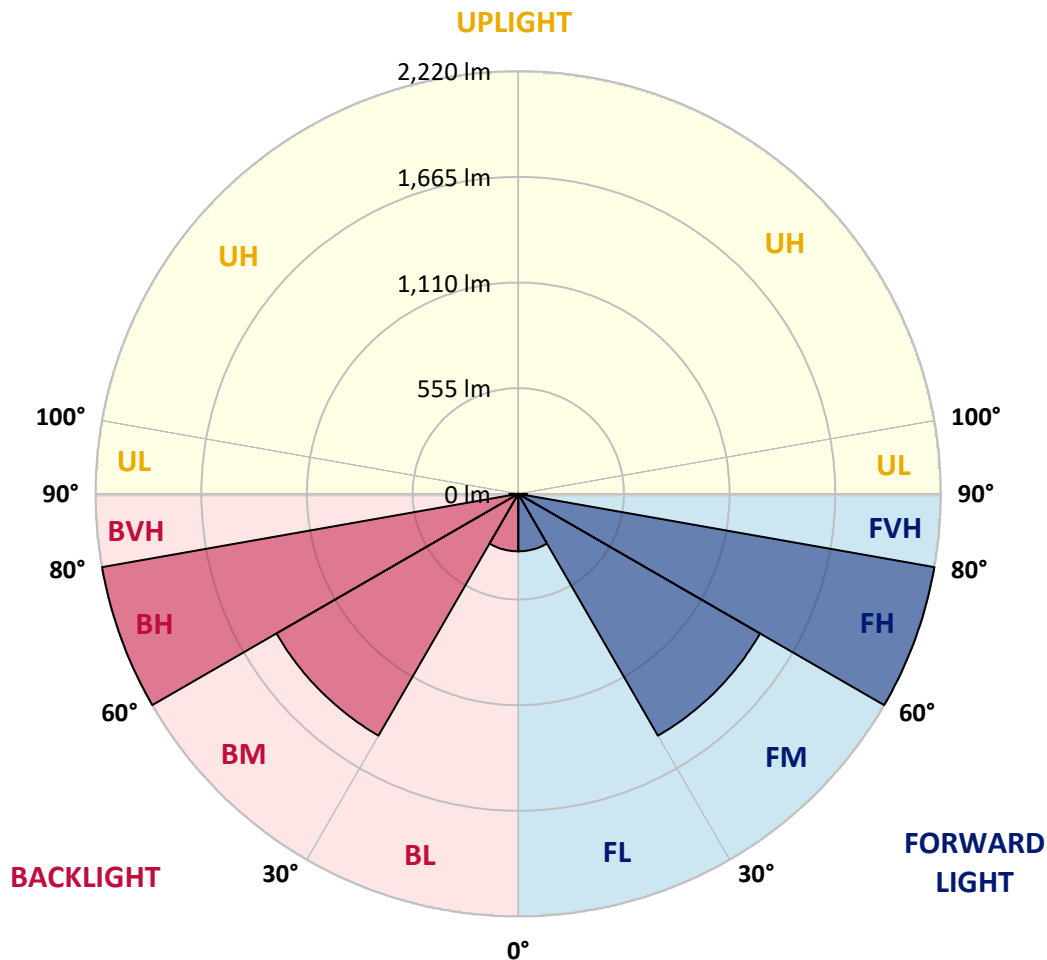
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 302.1 | 3.7 | | | |
| FM (30°-60°) | 1466.9 | 18.2 | | | |
| FH (60°-80°) | 2220.0 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 46.1 | 0.6 | | | G1/100 |
| BL (0°-30°) | 302.1 | 3.7 | B1/500 | | |
| BM (30°-60°) | 1466.9 | 18.2 | B2/2500 | | |
| BH (60°-80°) | 2220.0 | 27.5 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 46.1 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 736.1 | 736.1 | 736.1 | 736.1 | 736.1 | 736.1 | 736.1 | 736.1 | 736.1 | 736.1 |
| 2.5° | 731.5 | 733.6 | 732.8 | 731.1 | 731.1 | 729.9 | 731.1 | 732.0 | 733.2 | 734.0 |
| 5° | 721.9 | 723.6 | 723.1 | 721.9 | 722.3 | 721.0 | 721.9 | 723.1 | 724.0 | 724.4 |
| 7.5° | 713.5 | 715.2 | 714.3 | 712.2 | 712.2 | 711.0 | 711.4 | 712.7 | 713.9 | 714.3 |
| 10° | 711.4 | 713.1 | 710.6 | 707.2 | 705.9 | 704.3 | 704.7 | 705.9 | 708.5 | 709.7 |
| 12.5° | 712.2 | 713.5 | 711.0 | 705.9 | 704.7 | 703.0 | 703.0 | 704.3 | 707.6 | 709.3 |
| 15° | 714.8 | 716.0 | 712.2 | 706.8 | 705.5 | 704.3 | 703.8 | 705.5 | 709.3 | 712.2 |
| 17.5° | 719.4 | 720.6 | 714.8 | 707.2 | 705.5 | 705.9 | 705.5 | 706.8 | 712.7 | 718.1 |
| 20° | 723.6 | 724.4 | 716.4 | 707.2 | 705.5 | 705.9 | 705.5 | 708.0 | 715.6 | 723.1 |
| 22.5° | 724.8 | 725.7 | 718.1 | 710.1 | 708.9 | 709.3 | 708.9 | 711.4 | 718.5 | 726.1 |
| 25° | 725.2 | 726.5 | 720.6 | 714.3 | 716.4 | 717.3 | 716.4 | 716.9 | 722.3 | 729.0 |
| 27.5° | 731.5 | 733.2 | 727.8 | 722.3 | 723.6 | 723.1 | 724.4 | 725.7 | 729.9 | 736.6 |
| 30° | 744.5 | 745.8 | 741.2 | 735.7 | 734.9 | 732.0 | 735.7 | 739.9 | 744.5 | 750.4 |
| 32.5° | 765.9 | 768.4 | 762.6 | 756.7 | 752.9 | 751.2 | 754.2 | 761.3 | 767.6 | 773.9 |
| 35° | 801.6 | 803.3 | 797.8 | 786.9 | 780.2 | 780.2 | 782.7 | 791.9 | 802.0 | 810.0 |
| 37.5° | 851.9 | 854.0 | 844.4 | 831.4 | 821.3 | 821.3 | 824.7 | 834.3 | 849.4 | 860.7 |
| 40° | 913.2 | 916.1 | 903.9 | 890.5 | 880.9 | 879.2 | 883.4 | 894.3 | 908.5 | 922.8 |
| 42.5° | 987.0 | 990.3 | 974.4 | 962.7 | 955.1 | 955.1 | 957.2 | 967.3 | 980.3 | 997.9 |
| 45° | 1081.4 | 1087.2 | 1065.4 | 1053.7 | 1046.5 | 1048.2 | 1049.5 | 1058.3 | 1070.0 | 1090.2 |
| 47.5° | 1193.8 | 1199.6 | 1176.6 | 1164.4 | 1163.2 | 1171.1 | 1166.1 | 1172.4 | 1178.7 | 1201.7 |
| 50° | 1321.3 | 1331.4 | 1315.4 | 1314.6 | 1317.1 | 1331.8 | 1320.0 | 1323.4 | 1316.3 | 1330.9 |
| 52.5° | 1477.3 | 1492.0 | 1489.1 | 1494.1 | 1522.2 | 1552.4 | 1525.6 | 1513.8 | 1487.0 | 1491.6 |
| 55° | 1666.5 | 1688.7 | 1692.9 | 1723.1 | 1786.9 | 1848.5 | 1791.5 | 1744.1 | 1687.1 | 1676.6 |
| 57.5° | 1881.7 | 1899.3 | 1919.4 | 1981.1 | 2100.2 | 2209.7 | 2100.2 | 1995.4 | 1905.6 | 1884.2 |
| 60° | 2113.2 | 2135.0 | 2154.3 | 2245.4 | 2422.4 | 2576.3 | 2419.0 | 2252.5 | 2133.8 | 2104.8 |
| 62.5° | 2362.0 | 2390.1 | 2403.5 | 2504.6 | 2710.9 | 2894.7 | 2713.9 | 2512.1 | 2380.4 | 2349.4 |
| 65° | 2600.6 | 2623.7 | 2638.8 | 2746.6 | 2943.7 | 3127.9 | 2957.2 | 2758.3 | 2622.9 | 2582.2 |
| 67.5° | 2711.8 | 2724.4 | 2761.3 | 2883.3 | 3091.4 | 3301.5 | 3126.6 | 2896.3 | 2744.9 | 2673.6 |
| 70° | 2549.0 | 2523.5 | 2612.4 | 2807.8 | 3109.0 | 3408.1 | 3149.3 | 2802.0 | 2616.6 | 2500.8 |
| 72.5° | 1969.8 | 1925.7 | 2080.1 | 2414.4 | 2907.7 | 3340.1 | 2927.8 | 2433.3 | 2176.1 | 1941.2 |
| 75° | 1071.7 | 1021.8 | 1234.9 | 1657.7 | 2318.8 | 2895.1 | 2372.0 | 1705.1 | 1375.0 | 1063.7 |
| 77.5° | 302.4 | 283.6 | 455.5 | 802.0 | 1394.7 | 2032.7 | 1448.4 | 819.6 | 540.3 | 320.5 |
| 80° | 92.7 | 89.8 | 121.6 | 241.6 | 592.3 | 973.6 | 569.2 | 244.5 | 154.8 | 97.7 |
| 82.5° | 54.9 | 50.3 | 60.4 | 88.1 | 151.0 | 305.8 | 146.8 | 91.9 | 73.8 | 49.5 |
| 85° | 31.5 | 29.4 | 35.7 | 42.8 | 50.8 | 65.0 | 42.4 | 43.6 | 39.4 | 26.4 |
| 87.5° | 13.0 | 11.7 | 13.8 | 13.4 | 11.7 | 15.1 | 11.3 | 13.4 | 15.9 | 10.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 736.1 |
| 733.6 |
| 724.4 |
| 714.3 |
| 709.7 |
| 709.7 |
| 712.7 |
| 718.1 |
| 723.6 |
| 726.1 |
| 728.6 |
| 734.9 |
| 749.1 |
| 771.4 |
| 807.0 |
| 856.5 |
| 918.2 |
| 996.6 |
| 1089.3 |
| 1195.0 |
| 1322.1 |
| 1476.1 |
| 1660.2 |
| 1869.1 |
| 2079.7 |
| 2324.2 |
| 2562.0 |
| 2674.5 |
| 2528.5 |
| 1999.6 |
| 1133.0 |
| 356.1 |
| 103.2 |
| 53.7 |
| 27.7 |
| 9.6 |
| 0.0 |

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