

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: P848594

Luminaire Tested: **GLAN-SB5B-727-U-T1**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P848594
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-SB5B-727-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25025 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

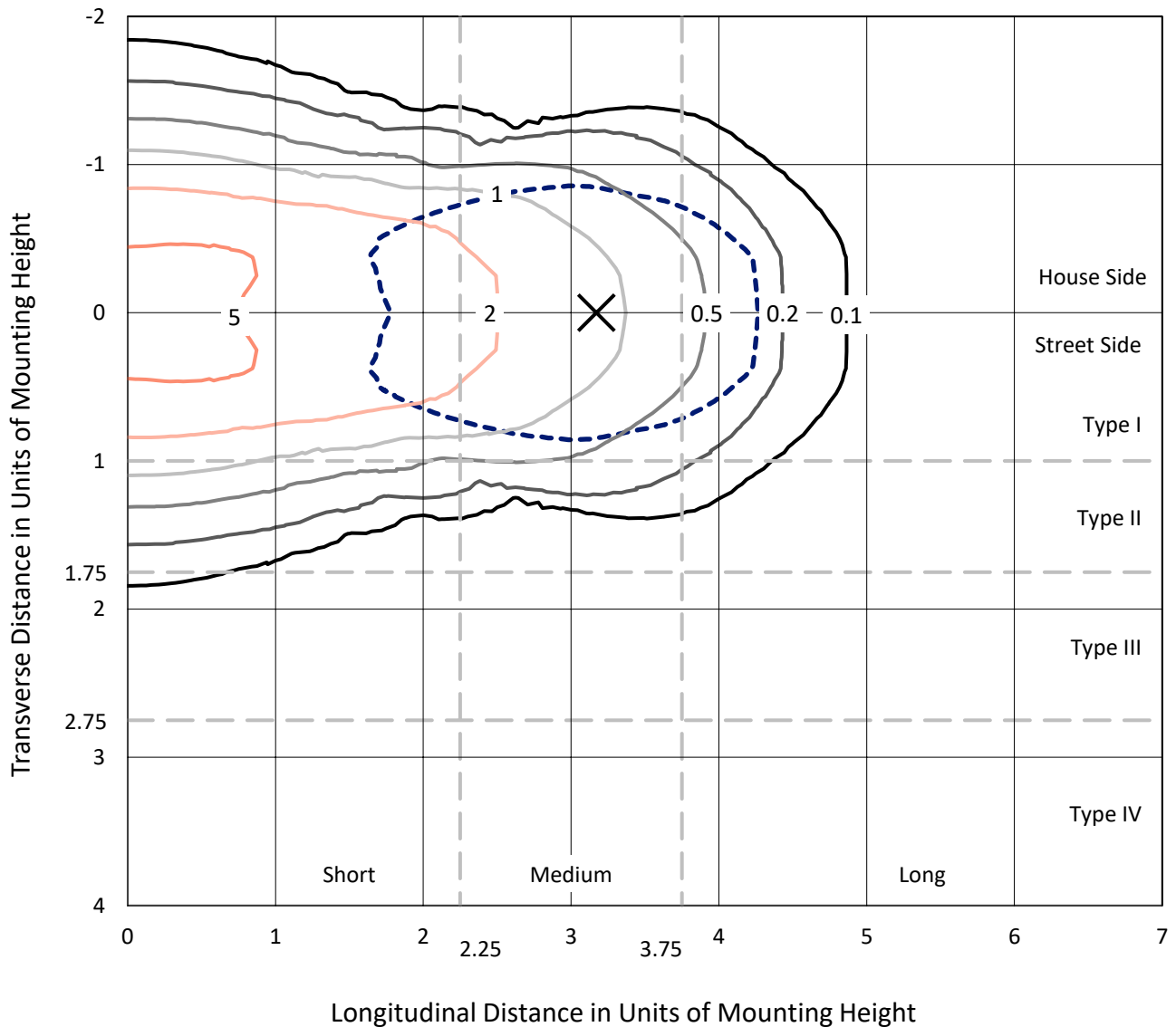
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

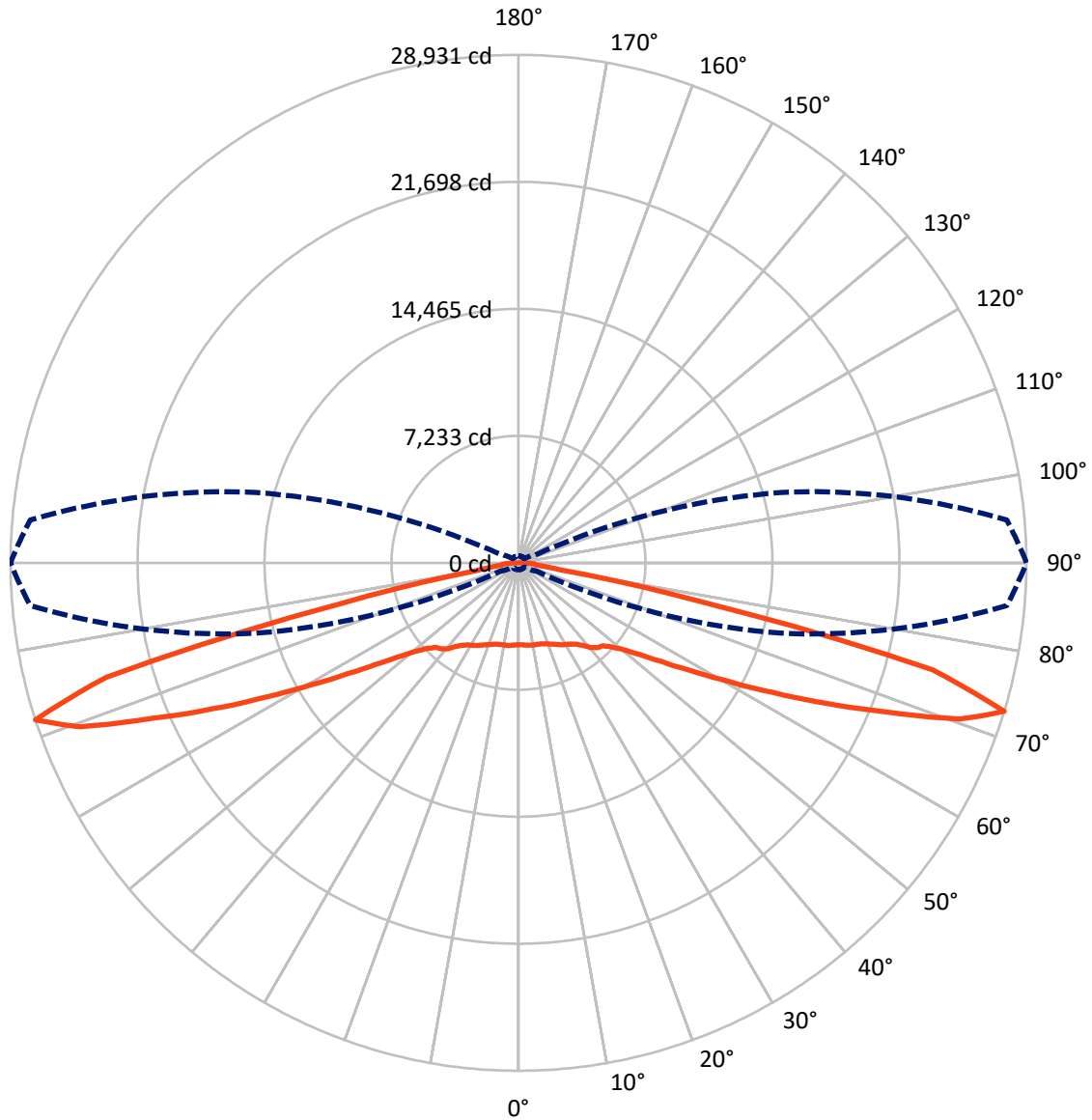
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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 | 12512.5 | 0.0 | 12512.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12512.5 | 0.0 | 12512.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 25025.0 | 0.0 | 25025.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 453.4 | 1.8 |
| 10°-20° | 1386.4 | 5.5 |
| 20°-30° | 2311.6 | 9.2 |
| 30°-40° | 3179.2 | 12.7 |
| 40°-50° | 3882.7 | 15.5 |
| 50°-60° | 4490.7 | 17.9 |
| 60°-70° | 5354.4 | 21.4 |
| 70°-80° | 3737.1 | 14.9 |
| 80°-90° | 229.5 | 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° | 25025.0 | 100.0 |
| 0°-180° | 25025.0 | 100.0 |

Coefficient of Utilization

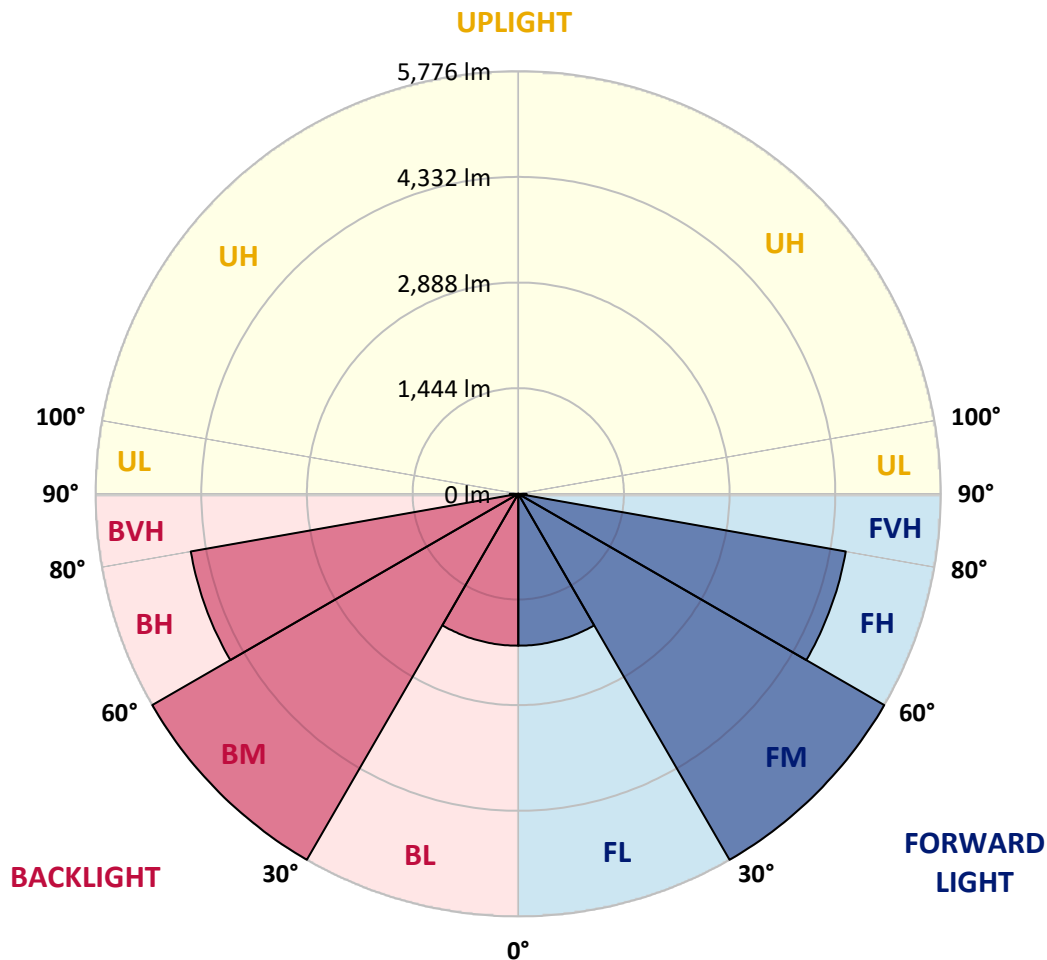


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2075.7 | 8.3 | | | |
| FM (30°-60°) | 5776.3 | 23.1 | | | |
| FH (60°-80°) | 4545.7 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 114.8 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2075.7 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 5776.3 | 23.1 | B4/8500 | | |
| BH (60°-80°) | 4545.7 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 114.8 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 4676.2 | 4676.2 | 4676.2 | 4676.2 | 4676.2 | 4676.2 | 4676.2 | 4676.2 | 4676.2 | 4676.2 |
| 2.5° | 4680.2 | 4685.5 | 4685.5 | 4681.5 | 4690.8 | 4682.8 | 4682.8 | 4678.8 | 4682.8 | 4678.8 |
| 5° | 4704.1 | 4710.8 | 4713.4 | 4712.1 | 4724.1 | 4717.4 | 4717.4 | 4712.1 | 4713.4 | 4709.4 |
| 7.5° | 4749.3 | 4758.6 | 4764.0 | 4770.6 | 4787.9 | 4779.9 | 4774.6 | 4758.6 | 4752.0 | 4741.4 |
| 10° | 4764.0 | 4774.6 | 4791.9 | 4826.5 | 4866.4 | 4867.7 | 4851.7 | 4811.8 | 4781.3 | 4757.3 |
| 12.5° | 4718.7 | 4733.4 | 4769.3 | 4839.8 | 4928.9 | 4964.8 | 4939.5 | 4873.0 | 4813.2 | 4770.6 |
| 15° | 4661.6 | 4677.5 | 4732.0 | 4838.4 | 4970.1 | 5053.9 | 5051.2 | 4963.5 | 4867.7 | 4801.2 |
| 17.5° | 4572.4 | 4588.4 | 4666.9 | 4815.8 | 5002.0 | 5140.3 | 5177.6 | 5087.1 | 4952.8 | 4863.7 |
| 20° | 4411.5 | 4426.2 | 4535.2 | 4744.0 | 5012.7 | 5232.1 | 5329.2 | 5249.4 | 5081.8 | 4960.8 |
| 22.5° | 4202.7 | 4225.3 | 4353.0 | 4620.3 | 4987.4 | 5327.9 | 5502.1 | 5447.6 | 5232.1 | 5064.5 |
| 25° | 3979.3 | 4003.2 | 4152.2 | 4468.7 | 4922.2 | 5397.0 | 5706.9 | 5672.3 | 5402.4 | 5193.5 |
| 27.5° | 3786.4 | 3811.7 | 3974.0 | 4318.4 | 4821.2 | 5423.6 | 5909.1 | 5926.4 | 5608.5 | 5335.9 |
| 30° | 3634.8 | 3658.8 | 3831.7 | 4197.4 | 4690.8 | 5397.0 | 6086.0 | 6205.7 | 5818.6 | 5459.5 |
| 32.5° | 3468.6 | 3499.2 | 3681.4 | 4049.8 | 4536.5 | 5333.2 | 6240.2 | 6507.6 | 6062.0 | 5592.5 |
| 35° | 3258.4 | 3286.4 | 3477.9 | 3847.6 | 4334.4 | 5230.8 | 6369.2 | 6842.7 | 6410.5 | 5794.7 |
| 37.5° | 3003.1 | 3029.7 | 3219.9 | 3594.9 | 4133.6 | 5087.1 | 6467.7 | 7220.4 | 6825.4 | 6086.0 |
| 40° | 2746.4 | 2771.7 | 2949.9 | 3313.0 | 3892.8 | 4903.6 | 6502.2 | 7590.2 | 7301.6 | 6486.3 |
| 42.5° | 2511.0 | 2533.6 | 2697.2 | 3035.0 | 3622.8 | 4669.5 | 6457.0 | 7912.0 | 7728.5 | 6765.6 |
| 45° | 2294.2 | 2314.2 | 2459.1 | 2774.3 | 3342.2 | 4384.9 | 6321.4 | 8257.8 | 8236.5 | 6965.1 |
| 47.5° | 2046.8 | 2066.8 | 2217.1 | 2521.6 | 3061.6 | 4051.1 | 6091.3 | 8598.3 | 8942.7 | 7417.3 |
| 50° | 1744.9 | 1762.2 | 1916.5 | 2230.4 | 2770.3 | 3696.0 | 5772.1 | 8865.6 | 9833.8 | 8102.2 |
| 52.5° | 1387.2 | 1405.8 | 1556.1 | 1869.9 | 2424.5 | 3314.3 | 5351.8 | 9039.8 | 10863.2 | 9102.3 |
| 55° | 1032.1 | 1045.4 | 1175.7 | 1457.7 | 1996.3 | 2879.4 | 4825.1 | 9089.0 | 12030.9 | 10469.5 |
| 57.5° | 748.8 | 756.8 | 840.5 | 1050.7 | 1513.5 | 2335.4 | 4185.4 | 8961.4 | 13420.8 | 12222.5 |
| 60° | 606.5 | 609.1 | 634.4 | 727.5 | 1052.0 | 1721.0 | 3412.7 | 8522.5 | 14928.9 | 14482.1 |
| 62.5° | 550.6 | 550.6 | 557.3 | 582.5 | 711.5 | 1135.8 | 2477.7 | 7612.8 | 16546.2 | 17337.5 |
| 65° | 512.0 | 512.0 | 514.7 | 526.7 | 561.2 | 723.5 | 1564.0 | 6131.2 | 17909.4 | 20682.4 |
| 67.5° | 477.5 | 478.8 | 477.5 | 481.5 | 501.4 | 534.6 | 907.0 | 4234.6 | 18643.6 | 24148.3 |
| 70° | 441.6 | 444.2 | 437.6 | 437.6 | 453.5 | 454.9 | 567.9 | 2322.1 | 18034.4 | 27053.0 |
| 72.5° | 399.0 | 403.0 | 392.3 | 389.7 | 401.7 | 396.3 | 426.9 | 1114.5 | 15483.5 | 27920.1 |
| 75° | 361.8 | 367.1 | 343.1 | 336.5 | 336.5 | 332.5 | 347.1 | 571.9 | 10049.3 | 22775.8 |
| 77.5° | 328.5 | 339.1 | 300.6 | 279.3 | 274.0 | 262.0 | 283.3 | 349.8 | 4395.6 | 10693.0 |
| 80° | 271.3 | 285.9 | 247.4 | 222.1 | 212.8 | 199.5 | 223.4 | 244.7 | 1307.4 | 2483.1 |
| 82.5° | 202.2 | 208.8 | 175.6 | 158.3 | 150.3 | 141.0 | 167.6 | 170.2 | 425.6 | 879.1 |
| 85° | 129.0 | 131.7 | 107.7 | 93.1 | 89.1 | 85.1 | 106.4 | 93.1 | 162.3 | 646.4 |
| 87.5° | 45.2 | 51.9 | 41.2 | 37.2 | 39.9 | 33.2 | 49.2 | 27.9 | 45.2 | 456.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

4676.2
4678.8
4709.4
4741.4
4753.3
4764.0
4790.6
4849.1
4938.2
5033.9
5151.0
5290.6
5394.4
5510.1
5702.9
5963.6
6355.9
6598.0
6739.0
7156.6
7775.0
8699.4
9965.5
11588.1
13682.8
16266.9
19328.5
22686.7
26668.6
28930.9
24361.1
10470.9
2378.0
993.5
939.0
565.2
0.0

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