

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: P943420

Luminaire Tested: **GALN-SB7D-927-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943420
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-SB7D-927-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44557 lumens
Efficiency: N/A
Efficacy: 86.9 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

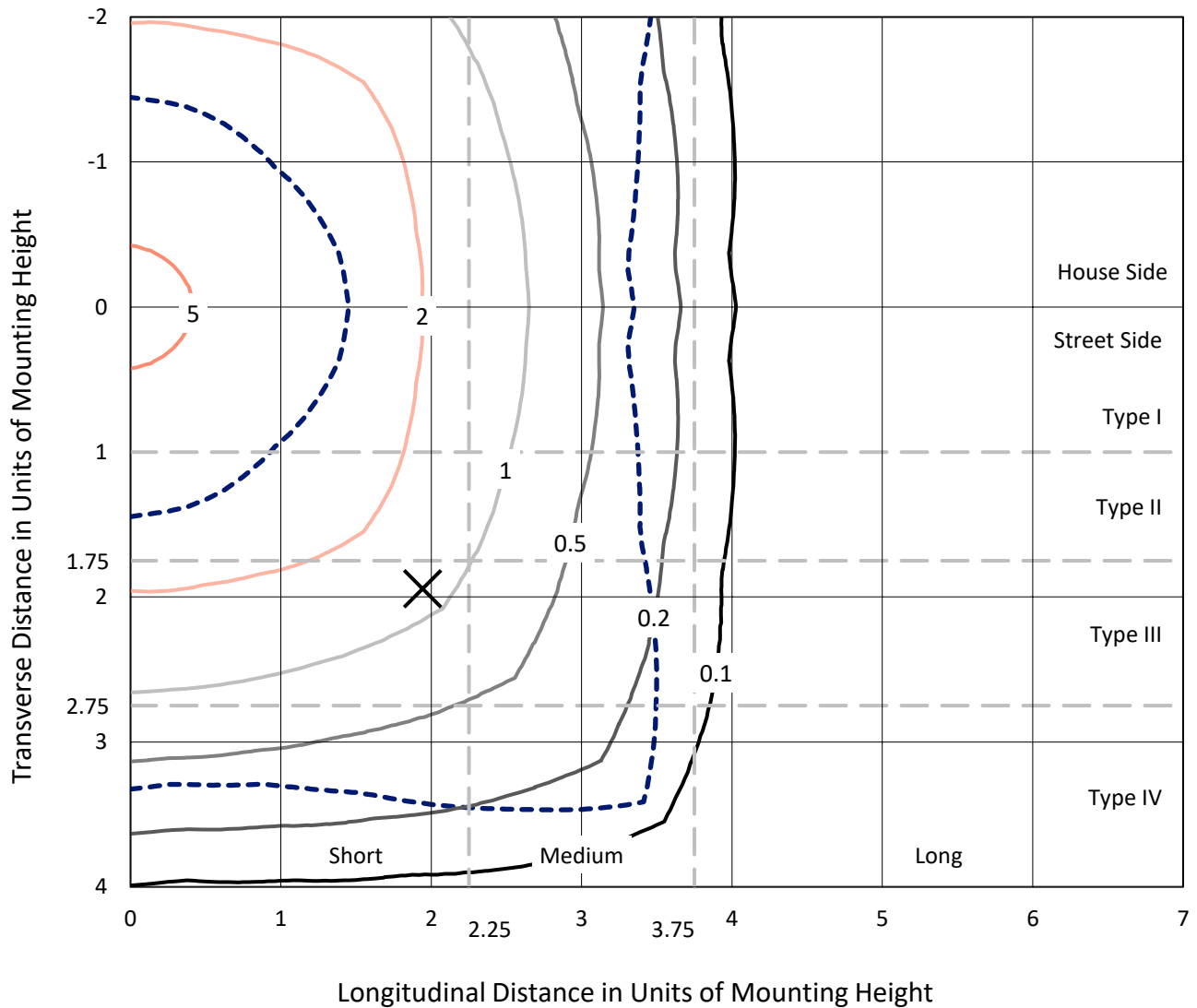
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

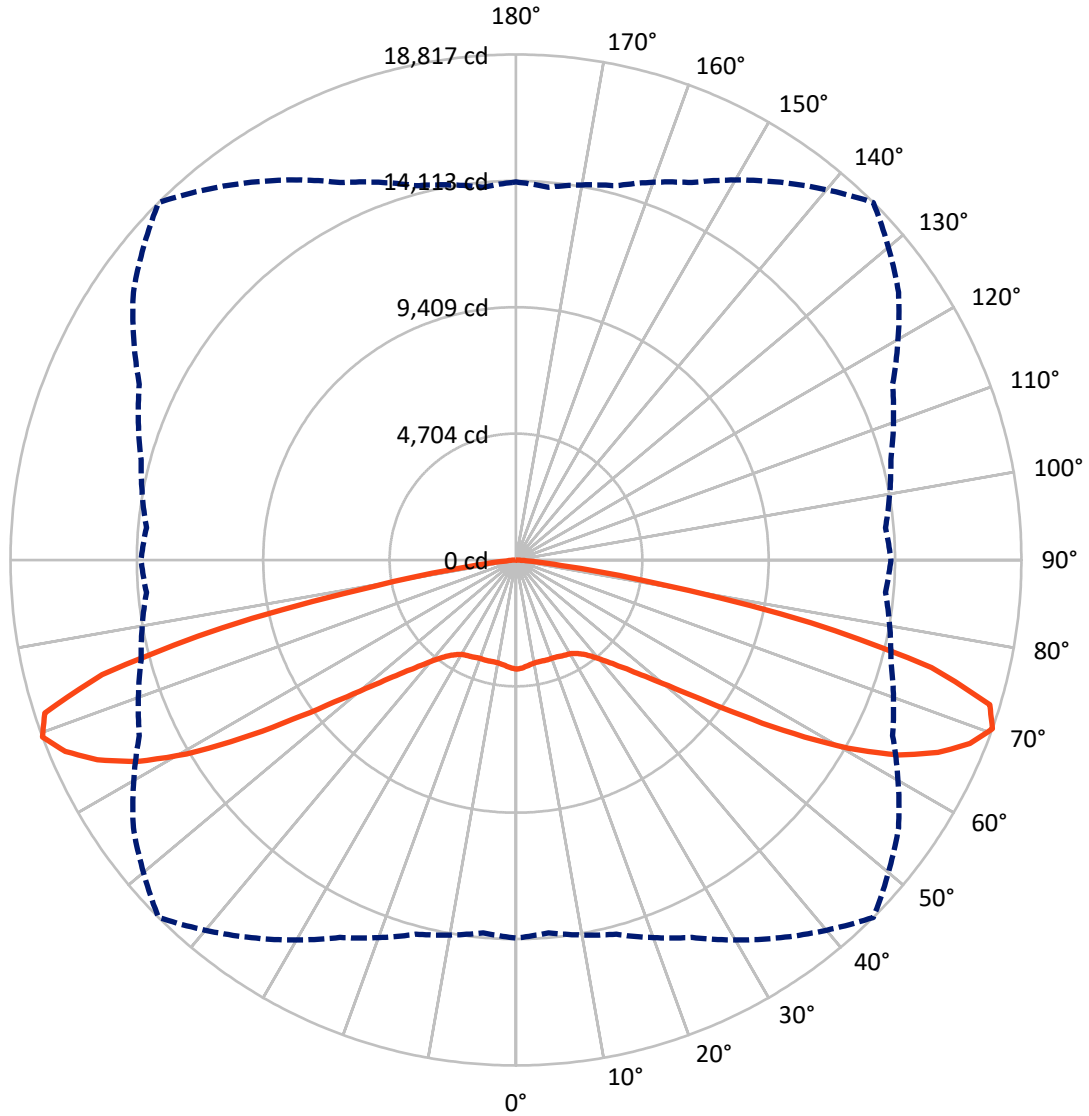
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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 | 22278.5 | 0.0 | 22278.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22278.5 | 0.0 | 22278.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 44557.0 | 0.0 | 44557.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 378.1 | 0.8 |
| 10°-20° | 1110.2 | 2.5 |
| 20°-30° | 1847.5 | 4.1 |
| 30°-40° | 2794.0 | 6.3 |
| 40°-50° | 4642.9 | 10.4 |
| 50°-60° | 8761.0 | 19.7 |
| 60°-70° | 14793.3 | 33.2 |
| 70°-80° | 9720.7 | 21.8 |
| 80°-90° | 509.3 | 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° | 44557.0 | 100.0 |
| 0°-180° | 44557.0 | 100.0 |

Coefficient of Utilization



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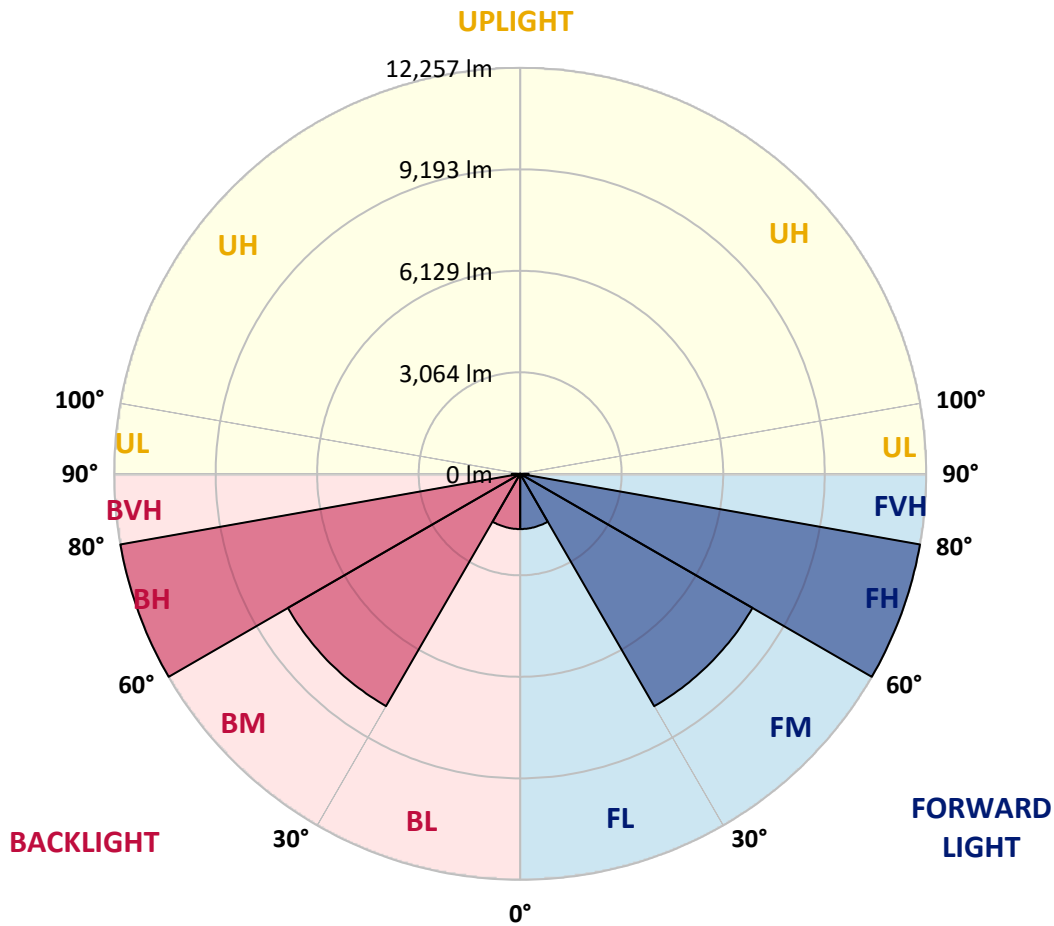
CATALOG NUMBER: GALN-SB7D-927-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1667.9 | 3.7 | | | |
| FM (30°-60°) | 8098.9 | 18.2 | | | |
| FH (60°-80°) | 12257.0 | 27.5 | | | G5 |
| FVH (80°-90°) | 254.6 | 0.6 | | | G3/500 |
| BL (0°-30°) | 1667.9 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 8098.9 | 18.2 | B4/8500 | | |
| BH (60°-80°) | 12257.0 | 27.5 | B5 | | G5 |
| BVH (80°-90°) | 254.6 | 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° | 4064.5 | 4064.5 | 4064.5 | 4064.5 | 4064.5 | 4064.5 | 4064.5 | 4064.5 | 4064.5 | 4064.5 |
| 2.5° | 4039.0 | 4050.6 | 4046.0 | 4036.7 | 4036.7 | 4029.8 | 4036.7 | 4041.3 | 4048.3 | 4052.9 |
| 5° | 3985.8 | 3995.0 | 3992.7 | 3985.8 | 3988.1 | 3981.1 | 3985.8 | 3992.7 | 3997.3 | 3999.6 |
| 7.5° | 3939.4 | 3948.7 | 3944.1 | 3932.5 | 3932.5 | 3925.5 | 3927.9 | 3934.8 | 3941.8 | 3944.1 |
| 10° | 3927.9 | 3937.1 | 3923.2 | 3904.7 | 3897.7 | 3888.5 | 3890.8 | 3897.7 | 3911.6 | 3918.6 |
| 12.5° | 3932.5 | 3939.4 | 3925.5 | 3897.7 | 3890.8 | 3881.5 | 3881.5 | 3888.5 | 3907.0 | 3916.3 |
| 15° | 3946.4 | 3953.3 | 3932.5 | 3902.4 | 3895.4 | 3888.5 | 3886.2 | 3895.4 | 3916.3 | 3932.5 |
| 17.5° | 3971.9 | 3978.8 | 3946.4 | 3904.7 | 3895.4 | 3897.7 | 3895.4 | 3902.4 | 3934.8 | 3964.9 |
| 20° | 3995.0 | 3999.6 | 3955.6 | 3904.7 | 3895.4 | 3897.7 | 3895.4 | 3909.3 | 3951.0 | 3992.7 |
| 22.5° | 4002.0 | 4006.6 | 3964.9 | 3920.9 | 3914.0 | 3916.3 | 3914.0 | 3927.9 | 3967.2 | 4008.9 |
| 25° | 4004.3 | 4011.2 | 3978.8 | 3944.1 | 3955.6 | 3960.3 | 3955.6 | 3958.0 | 3988.1 | 4025.1 |
| 27.5° | 4039.0 | 4048.3 | 4018.2 | 3988.1 | 3995.0 | 3992.7 | 3999.6 | 4006.6 | 4029.8 | 4066.8 |
| 30° | 4110.8 | 4117.8 | 4092.3 | 4062.2 | 4057.5 | 4041.3 | 4062.2 | 4085.3 | 4110.8 | 4143.2 |
| 32.5° | 4228.9 | 4242.8 | 4210.4 | 4178.0 | 4157.1 | 4147.9 | 4164.1 | 4203.5 | 4238.2 | 4272.9 |
| 35° | 4425.8 | 4435.0 | 4404.9 | 4344.7 | 4307.7 | 4307.7 | 4321.6 | 4372.5 | 4428.1 | 4472.1 |
| 37.5° | 4703.7 | 4715.3 | 4662.0 | 4590.2 | 4534.6 | 4534.6 | 4553.2 | 4606.4 | 4689.8 | 4752.3 |
| 40° | 5041.8 | 5058.0 | 4990.9 | 4916.8 | 4863.5 | 4854.2 | 4877.4 | 4937.6 | 5016.4 | 5095.1 |
| 42.5° | 5449.4 | 5468.0 | 5380.0 | 5315.1 | 5273.4 | 5273.4 | 5285.0 | 5340.6 | 5412.4 | 5509.6 |
| 45° | 5970.5 | 6002.9 | 5882.5 | 5817.7 | 5778.3 | 5787.6 | 5794.5 | 5843.1 | 5908.0 | 6019.2 |
| 47.5° | 6591.2 | 6623.6 | 6496.2 | 6429.1 | 6422.1 | 6466.1 | 6438.3 | 6473.1 | 6507.8 | 6635.2 |
| 50° | 7295.2 | 7350.8 | 7262.8 | 7258.2 | 7272.1 | 7353.1 | 7288.3 | 7306.8 | 7267.5 | 7348.5 |
| 52.5° | 8156.8 | 8237.8 | 8221.6 | 8249.4 | 8404.6 | 8571.3 | 8423.1 | 8358.3 | 8210.0 | 8235.5 |
| 55° | 9201.3 | 9324.0 | 9347.2 | 9513.9 | 9866.0 | 10206.4 | 9891.4 | 9629.7 | 9314.8 | 9256.9 |
| 57.5° | 10389.4 | 10486.6 | 10597.8 | 10938.2 | 11596.0 | 12200.4 | 11596.0 | 11017.0 | 10521.4 | 10403.3 |
| 60° | 11667.8 | 11788.2 | 11894.7 | 12397.3 | 13374.6 | 14224.6 | 13356.1 | 12436.7 | 11781.2 | 11621.4 |
| 62.5° | 13041.1 | 13196.3 | 13270.4 | 13828.5 | 14968.0 | 15982.4 | 14984.2 | 13870.2 | 13143.0 | 12971.6 |
| 65° | 14358.9 | 14486.3 | 14569.7 | 15164.9 | 16253.4 | 17270.1 | 16327.5 | 15229.7 | 14481.6 | 14257.0 |
| 67.5° | 14972.6 | 15042.1 | 15245.9 | 15919.9 | 17068.6 | 18228.9 | 17263.1 | 15991.6 | 15155.6 | 14761.9 |
| 70° | 14074.0 | 13932.8 | 14423.7 | 15503.0 | 17165.8 | 18817.1 | 17388.2 | 15470.6 | 14446.9 | 13807.7 |
| 72.5° | 10875.7 | 10632.5 | 11484.8 | 13330.6 | 16054.2 | 18441.9 | 16165.3 | 13434.8 | 12015.2 | 10718.2 |
| 75° | 5917.3 | 5641.7 | 6818.2 | 9152.6 | 12802.6 | 15984.7 | 13096.7 | 9414.3 | 7591.7 | 5873.3 |
| 77.5° | 1669.8 | 1565.6 | 2515.1 | 4428.1 | 7700.5 | 11223.1 | 7997.0 | 4525.4 | 2982.9 | 1769.4 |
| 80° | 511.8 | 495.6 | 671.6 | 1334.0 | 3270.1 | 5375.3 | 3142.7 | 1350.2 | 854.6 | 539.6 |
| 82.5° | 303.4 | 277.9 | 333.5 | 486.3 | 833.7 | 1688.3 | 810.6 | 507.2 | 407.6 | 273.3 |
| 85° | 173.7 | 162.1 | 196.9 | 236.2 | 280.2 | 359.0 | 233.9 | 240.9 | 217.7 | 145.9 |
| 87.5° | 71.8 | 64.8 | 76.4 | 74.1 | 64.8 | 83.4 | 62.5 | 74.1 | 88.0 | 57.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 4064.5 |
| 4050.6 |
| 3999.6 |
| 3944.1 |
| 3918.6 |
| 3918.6 |
| 3934.8 |
| 3964.9 |
| 3995.0 |
| 4008.9 |
| 4022.8 |
| 4057.5 |
| 4136.3 |
| 4259.0 |
| 4455.9 |
| 4729.2 |
| 5069.6 |
| 5502.7 |
| 6014.5 |
| 6598.1 |
| 7299.9 |
| 8149.8 |
| 9166.5 |
| 10319.9 |
| 11482.5 |
| 12832.7 |
| 14145.8 |
| 14766.5 |
| 13960.6 |
| 11040.1 |
| 6255.4 |
| 1966.2 |
| 569.7 |
| 296.4 |
| 152.9 |
| 53.3 |
| 0.0 |

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