

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: P941800

Luminaire Tested: **GALN-SB5C-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941800
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-SB5C-735-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38266 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

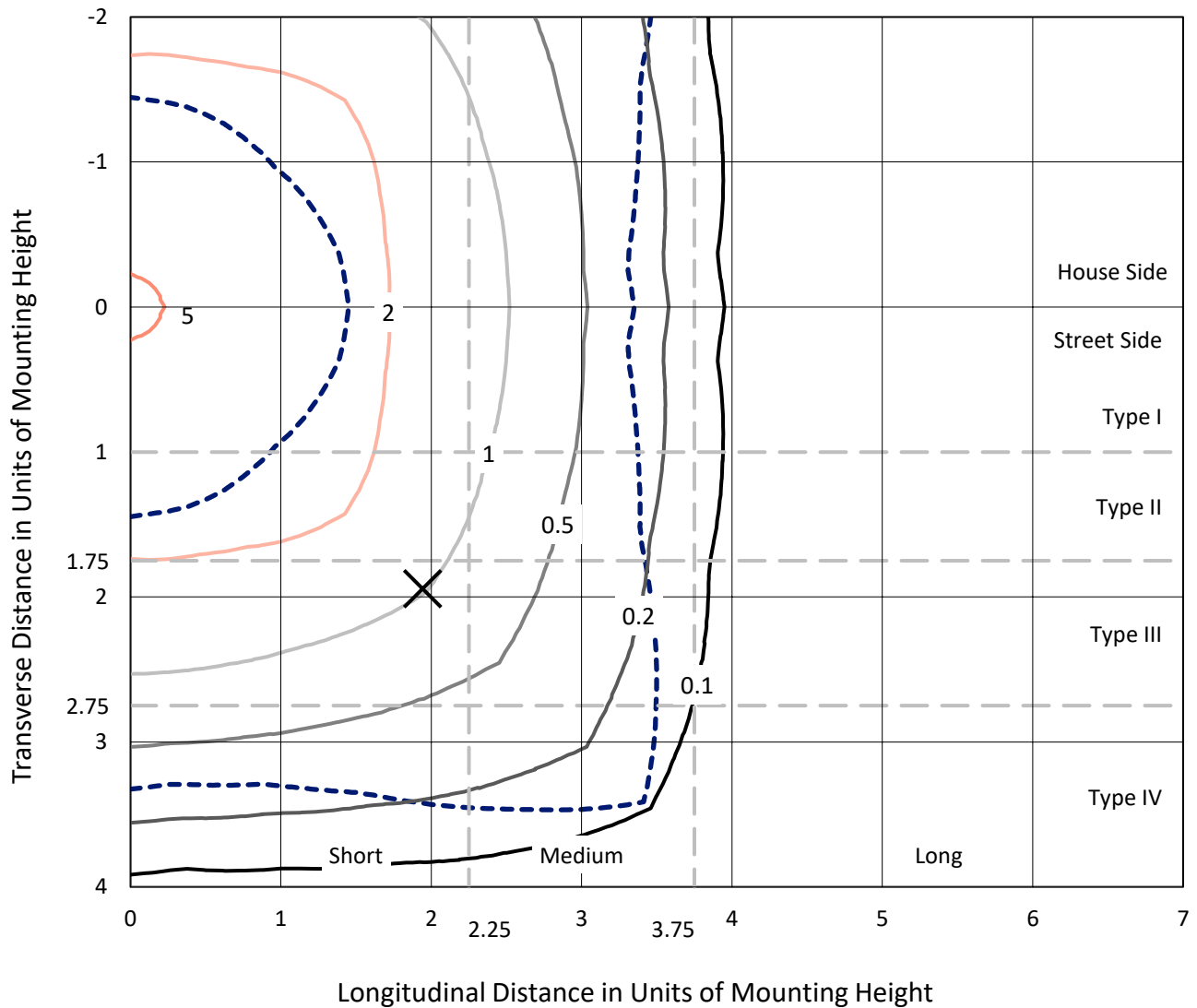
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

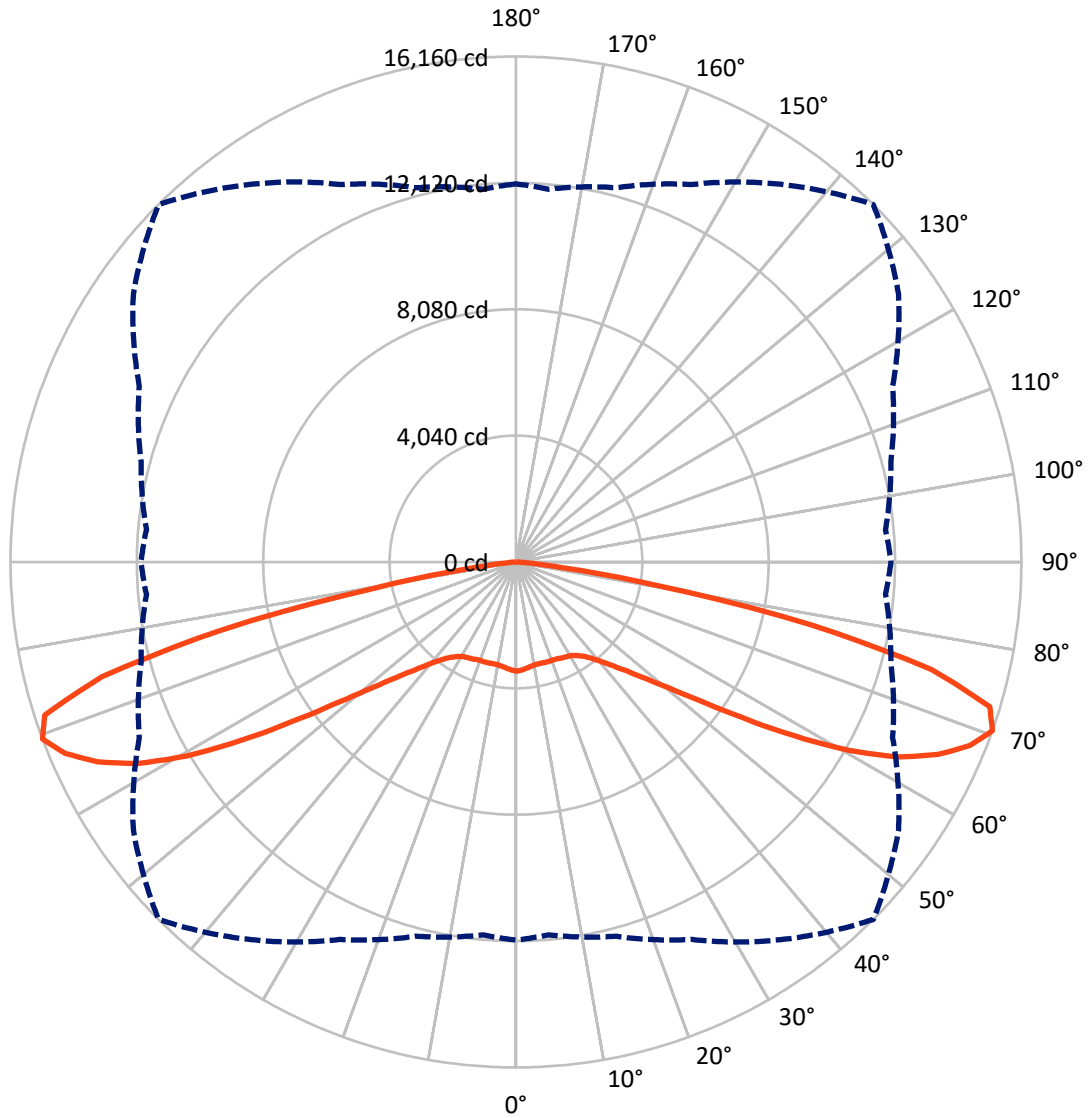
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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 | 19133.0 | 0.0 | 19133.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 19133.0 | 0.0 | 19133.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 38266.0 | 0.0 | 38266.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 324.7 | 0.8 |
| 10°-20° | 953.4 | 2.5 |
| 20°-30° | 1586.6 | 4.1 |
| 30°-40° | 2399.5 | 6.3 |
| 40°-50° | 3987.4 | 10.4 |
| 50°-60° | 7524.1 | 19.7 |
| 60°-70° | 12704.7 | 33.2 |
| 70°-80° | 8348.3 | 21.8 |
| 80°-90° | 437.4 | 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° | 38266.0 | 100.0 |
| 0°-180° | 38266.0 | 100.0 |

Coefficient of Utilization

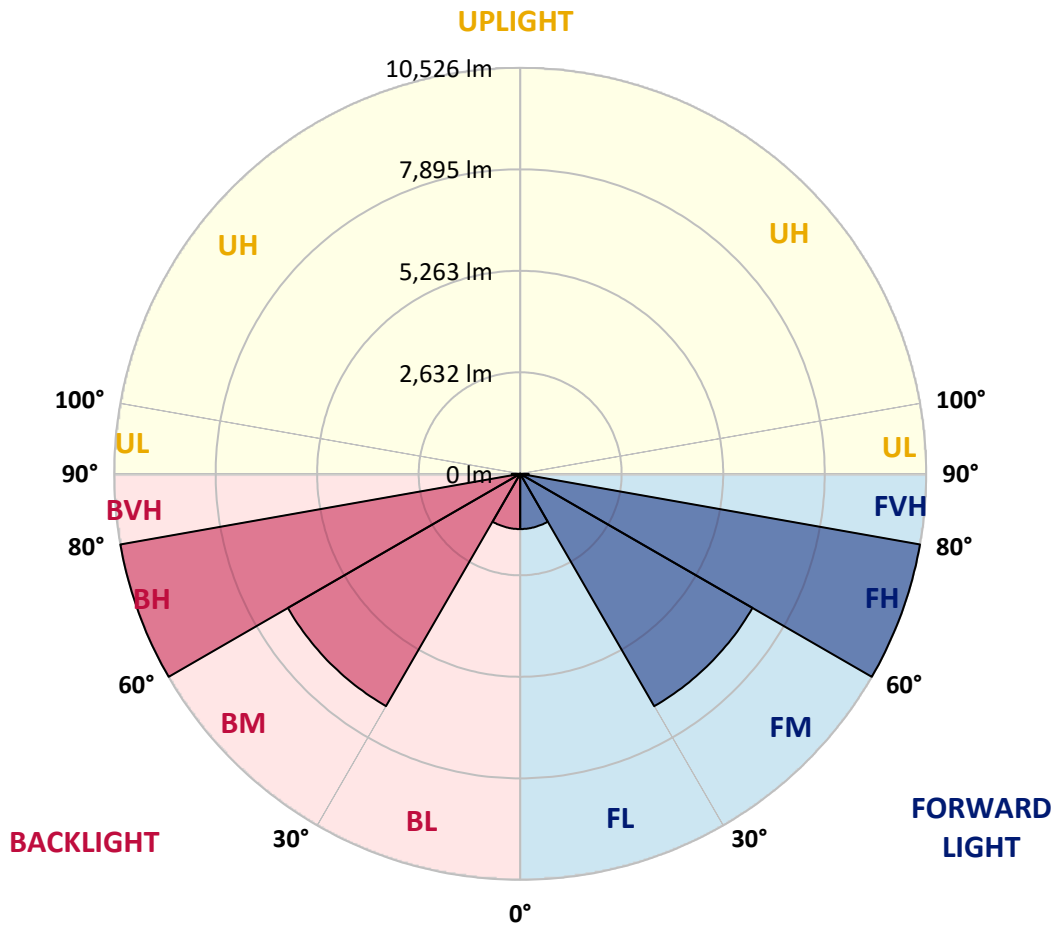


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1432.4 | 3.7 | | | |
| FM (30°-60°) | 6955.5 | 18.2 | | | |
| FH (60°-80°) | 10526.5 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 218.7 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1432.4 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 6955.5 | 18.2 | B4/8500 | | |
| BH (60°-80°) | 10526.5 | 27.5 | B5 | | G4/12000 |
| BVH (80°-90°) | 218.7 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4
 Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3490.6 | 3490.6 | 3490.6 | 3490.6 | 3490.6 | 3490.6 | 3490.6 | 3490.6 | 3490.6 | 3490.6 |
| 2.5° | 3468.8 | 3478.7 | 3474.7 | 3466.8 | 3466.8 | 3460.8 | 3466.8 | 3470.7 | 3476.7 | 3480.7 |
| 5° | 3423.0 | 3431.0 | 3429.0 | 3423.0 | 3425.0 | 3419.0 | 3423.0 | 3429.0 | 3432.9 | 3434.9 |
| 7.5° | 3383.2 | 3391.2 | 3387.2 | 3377.3 | 3377.3 | 3371.3 | 3373.3 | 3379.2 | 3385.2 | 3387.2 |
| 10° | 3373.3 | 3381.2 | 3369.3 | 3353.4 | 3347.4 | 3339.5 | 3341.5 | 3347.4 | 3359.4 | 3365.3 |
| 12.5° | 3377.3 | 3383.2 | 3371.3 | 3347.4 | 3341.5 | 3333.5 | 3333.5 | 3339.5 | 3355.4 | 3363.3 |
| 15° | 3389.2 | 3395.2 | 3377.3 | 3351.4 | 3345.4 | 3339.5 | 3337.5 | 3345.4 | 3363.3 | 3377.3 |
| 17.5° | 3411.1 | 3417.0 | 3389.2 | 3353.4 | 3345.4 | 3347.4 | 3345.4 | 3351.4 | 3379.2 | 3405.1 |
| 20° | 3431.0 | 3434.9 | 3397.1 | 3353.4 | 3345.4 | 3347.4 | 3345.4 | 3357.4 | 3393.2 | 3429.0 |
| 22.5° | 3436.9 | 3440.9 | 3405.1 | 3367.3 | 3361.3 | 3363.3 | 3361.3 | 3373.3 | 3407.1 | 3442.9 |
| 25° | 3438.9 | 3444.9 | 3417.0 | 3387.2 | 3397.1 | 3401.1 | 3397.1 | 3399.1 | 3425.0 | 3456.8 |
| 27.5° | 3468.8 | 3476.7 | 3450.9 | 3425.0 | 3431.0 | 3429.0 | 3434.9 | 3440.9 | 3460.8 | 3492.6 |
| 30° | 3530.4 | 3536.4 | 3514.5 | 3488.6 | 3484.7 | 3470.7 | 3488.6 | 3508.5 | 3530.4 | 3558.3 |
| 32.5° | 3631.8 | 3643.8 | 3615.9 | 3588.1 | 3570.2 | 3562.2 | 3576.2 | 3610.0 | 3639.8 | 3669.6 |
| 35° | 3800.9 | 3808.9 | 3783.0 | 3731.3 | 3699.5 | 3699.5 | 3711.4 | 3755.2 | 3802.9 | 3840.7 |
| 37.5° | 4039.6 | 4049.5 | 4003.8 | 3942.1 | 3894.4 | 3894.4 | 3910.3 | 3956.0 | 4027.6 | 4081.4 |
| 40° | 4330.0 | 4343.9 | 4286.2 | 4222.6 | 4176.8 | 4168.9 | 4188.8 | 4240.5 | 4308.1 | 4375.7 |
| 42.5° | 4680.0 | 4695.9 | 4620.4 | 4564.7 | 4528.9 | 4528.9 | 4538.8 | 4586.5 | 4648.2 | 4731.7 |
| 45° | 5127.5 | 5155.4 | 5052.0 | 4996.3 | 4962.5 | 4970.4 | 4976.4 | 5018.2 | 5073.8 | 5169.3 |
| 47.5° | 5660.6 | 5688.4 | 5579.0 | 5521.4 | 5515.4 | 5553.2 | 5529.3 | 5559.2 | 5589.0 | 5698.4 |
| 50° | 6265.2 | 6313.0 | 6237.4 | 6233.4 | 6245.3 | 6315.0 | 6259.3 | 6275.2 | 6241.4 | 6311.0 |
| 52.5° | 7005.1 | 7074.7 | 7060.8 | 7084.7 | 7217.9 | 7361.2 | 7233.9 | 7178.2 | 7050.9 | 7072.8 |
| 55° | 7902.1 | 8007.6 | 8027.5 | 8170.7 | 8473.0 | 8765.4 | 8494.9 | 8270.1 | 7999.6 | 7949.9 |
| 57.5° | 8922.5 | 9006.0 | 9101.5 | 9393.9 | 9958.7 | 10477.9 | 9958.7 | 9461.5 | 9035.9 | 8934.4 |
| 60° | 10020.4 | 10123.8 | 10215.3 | 10646.9 | 11486.3 | 12216.2 | 11470.3 | 10680.7 | 10117.9 | 9980.6 |
| 62.5° | 11199.8 | 11333.1 | 11396.8 | 11876.1 | 12854.7 | 13725.8 | 12868.6 | 11911.9 | 11287.4 | 11140.2 |
| 65° | 12331.6 | 12441.0 | 12512.6 | 13023.7 | 13958.5 | 14831.7 | 14022.2 | 13079.4 | 12437.0 | 12244.1 |
| 67.5° | 12858.6 | 12918.3 | 13093.3 | 13672.1 | 14658.7 | 15655.1 | 14825.7 | 13733.8 | 13015.8 | 12677.6 |
| 70° | 12086.9 | 11965.6 | 12387.3 | 13314.1 | 14742.2 | 16160.3 | 14933.1 | 13286.3 | 12407.1 | 11858.2 |
| 72.5° | 9340.2 | 9131.3 | 9863.3 | 11448.5 | 13787.5 | 15838.1 | 13883.0 | 11538.0 | 10318.7 | 9204.9 |
| 75° | 5081.8 | 4845.1 | 5855.5 | 7860.4 | 10995.0 | 13727.8 | 11247.6 | 8085.1 | 6519.8 | 5044.0 |
| 77.5° | 1434.0 | 1344.5 | 2160.0 | 3802.9 | 6613.3 | 9638.5 | 6867.9 | 3886.4 | 2561.8 | 1519.6 |
| 80° | 439.6 | 425.6 | 576.8 | 1145.6 | 2808.4 | 4616.4 | 2699.0 | 1159.6 | 733.9 | 463.4 |
| 82.5° | 260.6 | 238.7 | 286.4 | 417.7 | 716.0 | 1450.0 | 696.1 | 435.6 | 350.1 | 234.7 |
| 85° | 149.2 | 139.2 | 169.1 | 202.9 | 240.7 | 308.3 | 200.9 | 206.9 | 187.0 | 125.3 |
| 87.5° | 61.7 | 55.7 | 65.6 | 63.6 | 55.7 | 71.6 | 53.7 | 63.6 | 75.6 | 49.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 3490.6 |
| 3478.7 |
| 3434.9 |
| 3387.2 |
| 3365.3 |
| 3365.3 |
| 3379.2 |
| 3405.1 |
| 3431.0 |
| 3442.9 |
| 3454.8 |
| 3484.7 |
| 3552.3 |
| 3657.7 |
| 3826.8 |
| 4061.5 |
| 4353.8 |
| 4725.8 |
| 5165.3 |
| 5666.6 |
| 6269.2 |
| 6999.2 |
| 7872.3 |
| 8862.8 |
| 9861.3 |
| 11020.8 |
| 12148.6 |
| 12681.6 |
| 11989.5 |
| 9481.4 |
| 5372.2 |
| 1688.6 |
| 489.3 |
| 254.6 |
| 131.3 |
| 45.7 |
| 0.0 |

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