

Project:
Catalog Number:
Notes:

Adjustable Troffer

AMBIENT LIGHTING FOR INTERIOR SPACES

FEATURES

- Power adjustable between four wattages
- Color temperature tunable between multiple settings 3000 K to 5000 K
- Dimmable 0-10 V
- Flicker-free
- Operating temperature -4° F to 122° F
- IP40 Rating
- Cold rolled steel material with a polycarbonate lens



REGULATORY QUALIFICATIONS

- All variations are DLC-listed
- ETL-listed
- UL 1598 Ed. 5-2021
- ANSI C78.377-2017
- Tested by an independent laboratory with IESNA LM-79 and LM-80

APPLICATIONS

- Commercial office spaces
- Healthcare facilities
- School buildings



Big Shine LED is an LED lighting manufacturer, a division of technology company Big Shine Worldwide, Inc. With global manufacturing centers for continuity of supply, Big Shine LED designs lighting fixtures with premium components that meet international certifications.

TECHNICAL DATA

BSL-TR[XX]-1x4-4CCT-120 (1' x 4' model)

POWER @ 120 V	CCT	CRI (Ra)	LUMEN PACKAGE (LM)	EFFICACY (LM/W)	TOTAL HARMONIC DISTORTION (%)	POWER FACTOR
16	3000 K	82.9	2000	125	8.7	0.926
20	3500 K	82.9	2500	125	8.7	0.926
24	4000 K	82.9	3000	125	8.7	0.926
27	5000 K	82.9	3375	125	8.7	0.926

BSL-TR[XX]-2x2-4CCT-120 (2' x 2' model)

POWER @ 120 V	CCT	CRI (Ra)	LUMEN PACKAGE (LM)	EFFICACY (LM/W)	TOTAL HARMONIC DISTORTION (%)	POWER FACTOR
16	3000 K	82.8	2000	125	12.5	0.941
20	3500 K	82.8	2500	125	12.5	0.941
24	4000 K	82.8	3000	125	12.5	0.941
27	5000 K	82.8	3375	125	12.5	0.941

TECHNICAL DATA

BSL-TR[XX]-2x4-4CCT-120 (2' x 4' model)

POWER @ 120 V	CCT	CRI (Ra)	LUMEN PACKAGE (LM)	EFFICACY (LM/W)	TOTAL HARMONIC DISTORTION (%)	POWER FACTOR
25	3000 K	83.5	3125	125	11.3	0.913
30	3500 K	83.5	3750	125	11.3	0.913
40	4000 K	83.5	5000	125	11.3	0.913
50	5000 K	83.5	6250	125	11.3	0.913

PHOTOMETRIC DATA

Spectrum Test Results

Tested Sample: 2x2 Adjustable Troffer | Specification: 30 W 5000 K*

Test Conditions

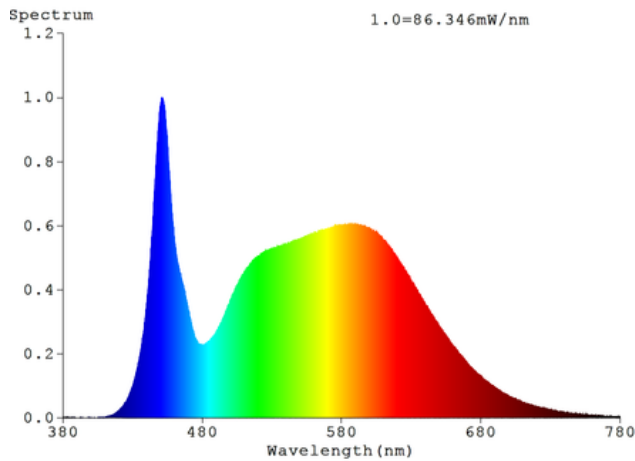
Date: 2024-07-06

Temperature: 25.° C (77.54° F)

Wavelength Range: 380 nm - 780 nm

Relative Humidity: 65%

Spectrum



Spectral Distribution

Colorimetric Parameters

Chromaticity Coordinates:

$x = 0.3503$ $y = 0.3628$ $u' = 0.2106$ $v' = 0.4908$ $DuV = 0.0035$

Dominant Peak Wavelength (Ld) = 571.5 nm

Full Width at Half Maximum (FWHM) = 19.1 nm

Peak Wavelength (Lp) = 451.3 nm

Purity = 14.0%

CCT = 3937 K CRI = 83.4

R1 = 81	R2 = 89	R3 = 94	R4 = 82	R5 = 81	R6 = 84	R7 = 88	R8 = 68
R9 = 10	R10 = 73	R11 = 82	R12 = 56	R13 = 83	R14 = 97	R15 = 76	

Photometric & Radiometric Parameters

Luminous Flux = 3320 lm

Efficacy = 118.30 lm/W

Fe = 10.18 W

Electrical Parameters

Voltage = 121.55 V

Current = 0.2320 A

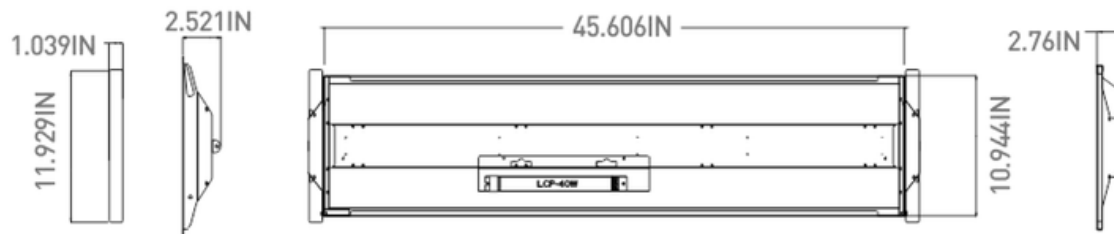
Power = 28.06 W

Power Factor = 0.9952

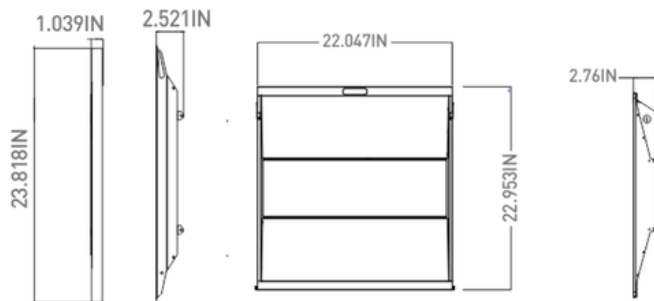
*Full LM-79 test report available upon request to Big Shine LED.

DIMENSIONAL DATA

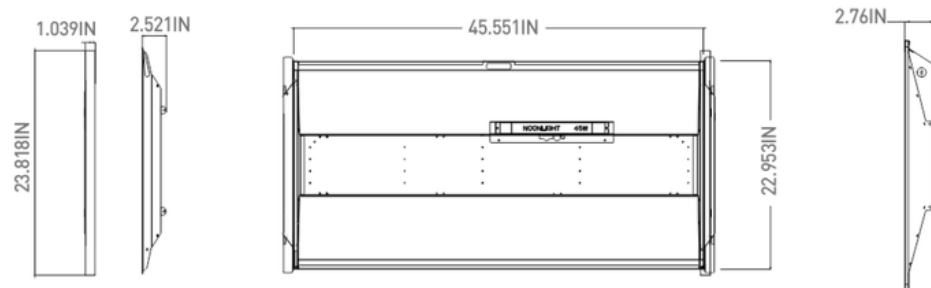
BSL-TR[XX]-1x4-4CCT-120 (1' x 4' model)



BSL-TR[XX]-2x2-4CCT-120 (2' x 2' model)



BSL-TR[XX]-2x4-4CCT-120 (2' x 4' model)



*Images not to scale.

FIXTURE SPECIFICATIONS

ORDERING EXAMPLE: BSL-TR30-2x4-4000K-120

FIXTURE TYPE	MODEL SIZE	CCT SELECTABLE	STANDARD BEAM ANGLE
BSL-TR[XX]	1' X 4' 2' X 2' 2' X 4'	3000 K 3500 K 4000 K 5000 K	120

SIZE	STANDARD POWER SELECTABLE OPTIONS
1' X 4'	16 W 20 W 24 W 27 W
2' X 2'	16 W 20 W 24 W 27 W
2' X 4'	25 W 30 W 40 W 50 W

OPTIONAL ACCESSORIES AVAILABLE*

- Recessed mounting kit
- Surface mounting kit
- Emergency battery backup, external driver available for field installation
- Occupancy sensor and dimming controls available

OTHER FIXTURE INFORMATION

- Input voltage range: 120-347 Vac 50/60 Hz
- LED type: SMD (surface mount device)
- L90 at 51,000 hrs tested at 53.8 °C, 85 °C, and 115 °C.

*Accessories sold separately.