

VEROBOARD®

24" T5 BAR 120V 9W 3CCT

Linkable LED Linear Light is a low power consumption with high energy efficiency that creates an even illumination without any hotspots. The fixture is available in 24" length with three selectable color temperature.

SPECIFICATIONS



Model No.	AD-113-24
Voltage	120V AC
Wattage	9W
Brightness	700Lm
Length	609.6mm (24in)
Maximum Links	10 (240W Max)
Fixture Color	White
Rendering Index	CRI>90
Beam Angle	130°
Color Temperature	3000K, 4000K, 5000K
IP Rating	IP20 (Suitable for damp location)
Dimmable	Yes
Dimensions	609.6 x 33 x 25.3mm (24 x 1.3 x 1in)
Package Content	Back to Back Connector, Mounting Clips & Screws



FEATURES

- Low power consumption, high energy efficiency.
- Widely popular in wardrobe, cabinet, shelves of a modern kitchen.
- Applicable for cabinets, shelves, closets, ceiling, shower doors, windows, accent lighting, stairs, and much more.
- Has a high-quality reflector, avoids glaring.
- It's a good replacement for the fluorescent tube.
- Dissipates very less heat and is safe to touch.
- Has a switch of its own on the fixture.
- Several lengths (Maximum 10) can be positioned together.
- Comes with a small connector, if in case wants to connect with another light fixture of any length.
- Need to buy a cord separately for the plug-in application.
- We also carry a box for hardwiring the lights rather than a plugin in an outlet.
- Comes with mounting brackets and end caps
- Is an eco-friendly product, free from UV or any hazardous materials with RoHS certification.



24" LINKABLE T5 BAR 120V 9W 3CCT
(LED replacement for conventional T5 lamp)

0 DIMMABLE 100

2 YEAR WARRANTY

24" LINKABLE T5 BAR 120V 9W 3CCT
(LED replacement for conventional T5 lamp)

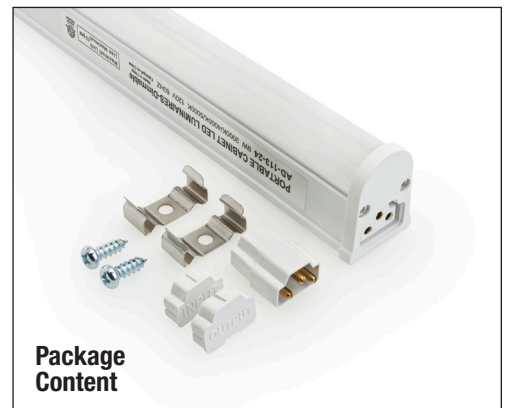
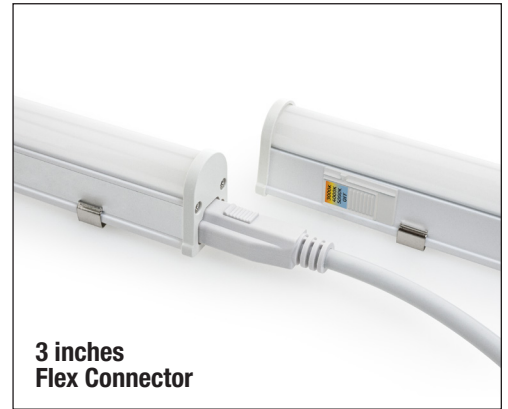
Disclaimer:
The data and information contained in this specification sheet are subject to change without notice; the ratings supplied are provided based on the product manufacturer. The information contained in this specification sheet should not be considered a warranty, expressed or implied, including, but not limited to, a warranty of merchantability or fitness for a particular purpose. In no event shall Veroboard be liable for any incidental or consequential damages resulting from the use, misuse, or inability to use the product. This exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory.

Name: _____

Company: _____

Phone: _____

Email: _____



Model: AD-113-24-C
3in Flex Connector Cable (Sold Separately)
SKU: 666561416188



Model: AD-113-24-B
T5 LED Bar Hardwire Box Switch (Sold Separately)
SKU: 666561416171



Model: AD-113-24-C0
5ft T5 Linkable Light Bar Plug-in Cord (Sold Separately)
SKU: 666561416195



SKU: 666561428600

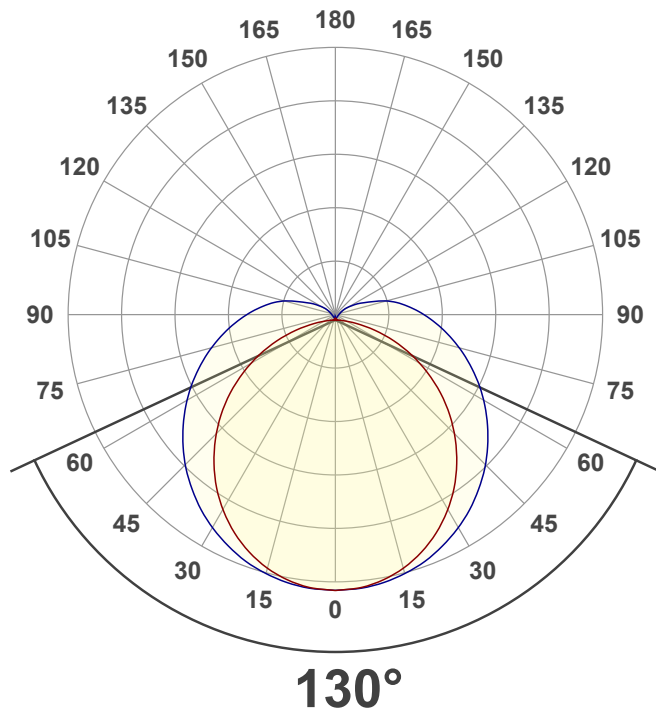
Light Measurement Report

Print date: 2023-02-01

Measurement date and time: 2023-02-01 3:11:28 PM – Measurement no. VFR-230201-0042-MS

Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen)	700 lm
Lumen Up% / Down%	12.34% / 87.66%
Peak Intensity	178 cd
Beam Angle (50%)	130°
Beam Angle (90%)	150.6°
Beam Angle (10%)	108.7°

Cut-off Angle

Average 2,5%	232.7°
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Field Angle

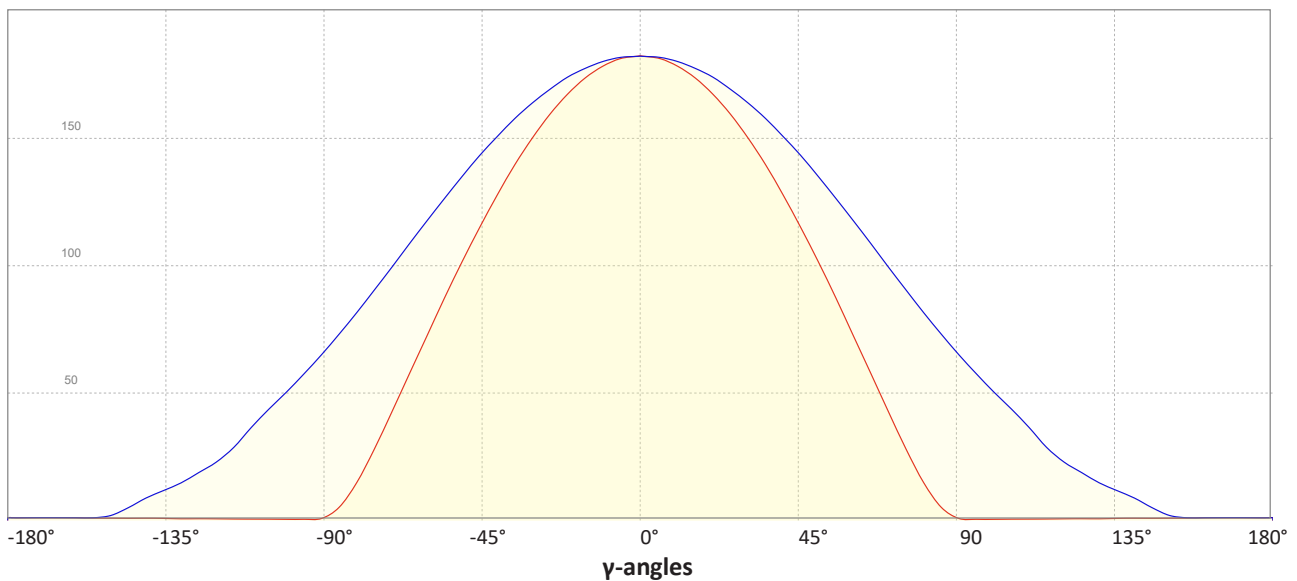
Average 10%	205.7°
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Intensity Ratio

In 120° cone	60.7%
In 90° cone	40.1%

C000-C180
C090-C270

Linear distribution diagram - Intensity (candela) vs γ -angle



Color details

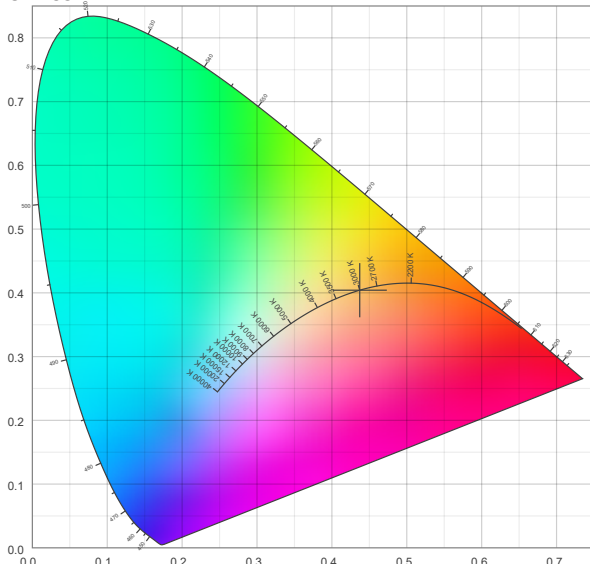
Correlated Color Temperature, Target
Correlated Color Temperature, Measured
Color Rendering Index
Color Rendering Index, R9 (red component)
Color Rendering TM30-18
Color Quality Scale

CCT = 3000 K
CCT = 2992 K
CRI 84.8
R9 = 15.4
R_f 85.7 – R_g 96.6
CQS = 83.3

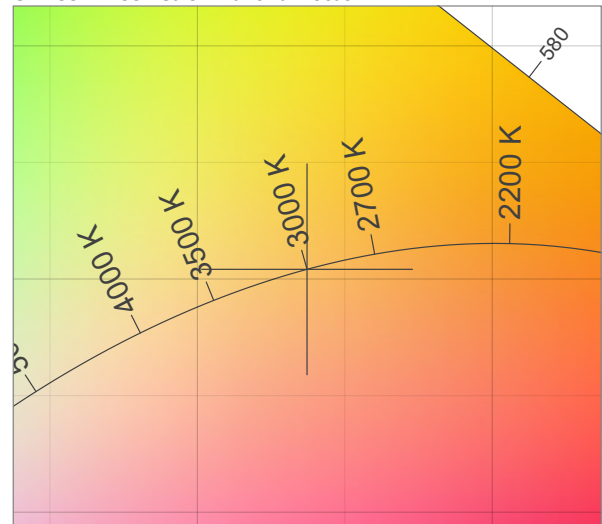
MacAdam Steps
Color coordinates CIE 1931
Color coordinate CIEs 1960
Color deviation from BBL
Color coordinate CIEs 1976 (CIELUV)

SDCM = 2.3
(x;y) = (0.437;0.404)
(u;v) = (0.251;0.348)
Duv = -0.0023
(u';v') = (0.251;0.251)

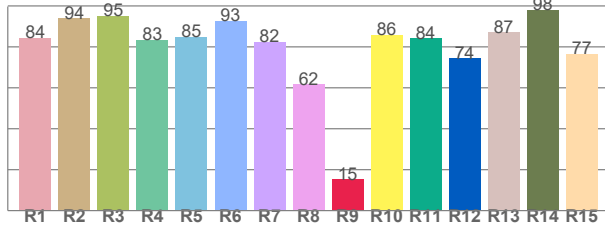
CIE 1931



CIE 1931 – zoomed on Planckian locus



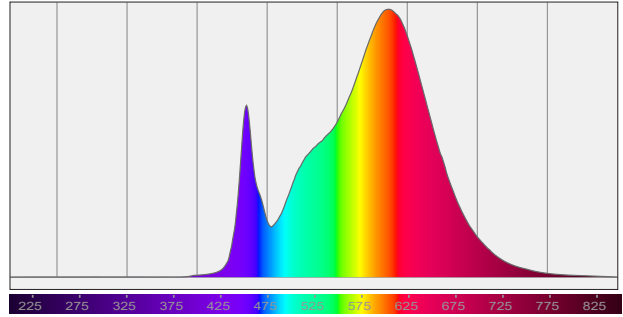
Color Rendering Index per reference color (CIE 1995)



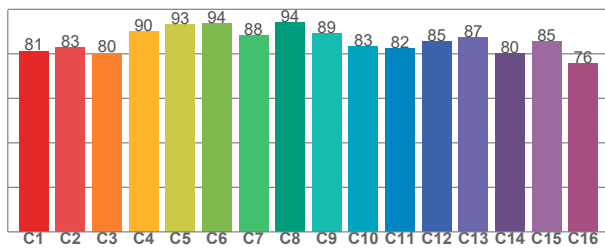
CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
84.5	93.8	95.0	83.3	84.9	92.6	82.4	61.6	15.4	85.9	84.0	74.5	87.1	98.2	76.6

Spectral power distribution (SPD) / W/nm – 0-100%



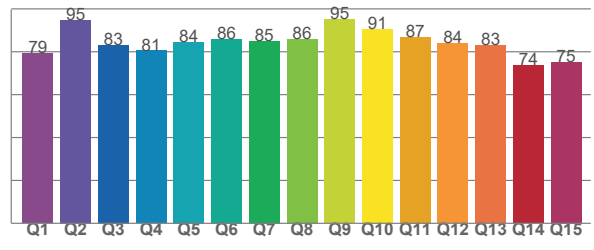
TM30-18 Rf-values per hue bin



TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.3	82.9	80.4	90.2	93.3	93.5	88.4	94.2	89.1	83.4	82.4	85.4	87.5	80.1	85.4	75.8

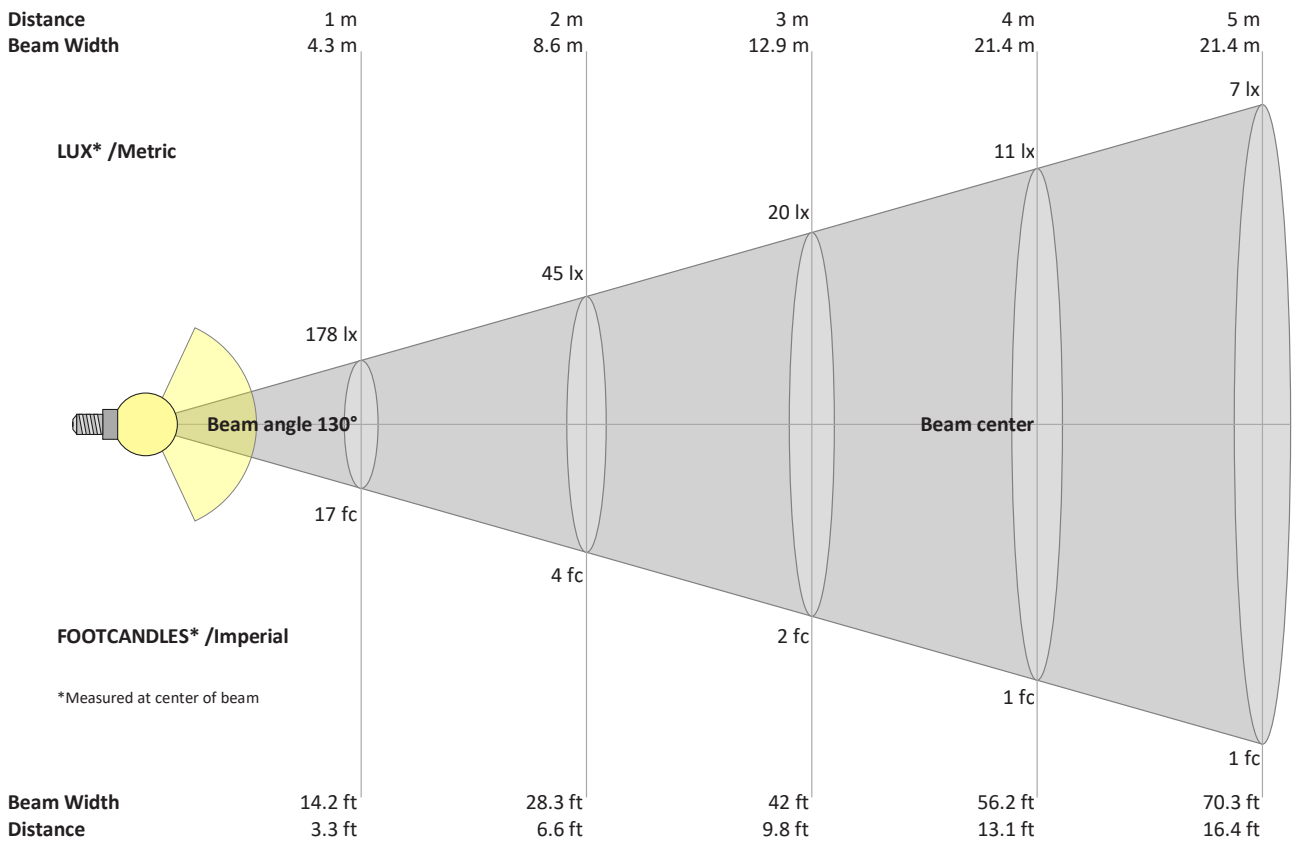
Color Quality Scale by reference color



CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79.2	94.8	83.2	80.5	84.4	85.9	85.0	86.1	95.1	90.5	87.0	83.9	83.0	73.7	75.4

Beam Details



Beam intensities from 1 – 20 m

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	m
3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6	ft
178	45	20	11	7	5	4	3	2	2	1	1	1	1	1	1	1	1	0	0	lux
16.6	4.1	1.8	1	0.7	0.5	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	fc

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°	γ	
178	175	167	154	136	114	90	64	38	14	1	0	0	1	1	1	1	1	1	1	1	cd
100%	98%	94%	86%	76%	64%	51%	36%	21%	8%	1%	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%	of 0°val

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°	γ	
178	177	172	164	154	141	126	111	95	79	65	52	39	27	18	12	6	1	1	1	1	cd
100%	99%	97%	92%	86%	79%	71%	62%	53%	44%	36%	29%	22%	15%	10%	7%	3%	1%	1%	1%	1%	of 0°val

Intensities in 180° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°	γ	
178	175	167	154	136	114	90	64	38	14	1	0	0	1	1	1	1	1	1	1	1	cd
100%	98%	94%	86%	76%	64%	51%	36%	21%	8%	1%	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%	of 0°val

Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°	γ	
178	177	172	164	154	141	126	111	95	79	65	52	39	27	18	12	6	1	1	1	1	cd
100%	99%	97%	92%	86%	79%	71%	62%	53%	44%	36%	29%	22%	15%	10%	7%	3%	1%	1%	1%	1%	of 0°val