VEROBOARD.

4" Flat LED Panel Light

Job Name:	 	
Distributor:	 	
Type		

SPECIFICATIONS

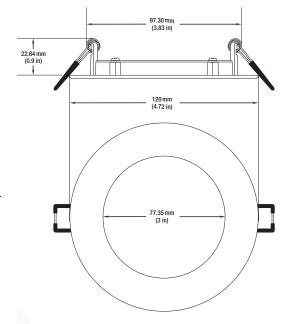






	DAMP	
V	Location	

Model No.	Z4C-9
Input Voltage	120V AC
Wattage	9W
Frequency	50/60Hz
Color Temperatures	3CCT Selectable Colour Temperatures (3000K-4000K-5000K)
Available Trim Colour	Black, Brushed Nickel
Brightness	589-673 Lumens
Beam Angle	110°
Dimming	100 – 10% (Triac Dimming)
Rendering Index	CRI>90
IP Rating	IP20 (Indoor use only)
Location Approved	Damp Location
Certifications	ETL/cUL/Energy Star



FEATURES









- This downlight works in various indoor applications. It has universal ceiling applications.
- Recessed lighting is suitable for both dry and damp environments with its Ingresses Protection rating of IP20.
- The temperature of the light can be adjusted to the desired application from the junction box DIP switch.
- Selectable color Temperature option 3000K-4000K-5000K from the junction box.
- No additional LED driver is needed.
- Trim is available in different Colors (White, Black, Brushed Nickel).
- · Well suited for both residential and commercial indoor spaces.





Available Trim Colour (Sold Separately)

Z4C-9-BK SKU: 666561415242

Z4C-9-BN

SKU: 666561415259













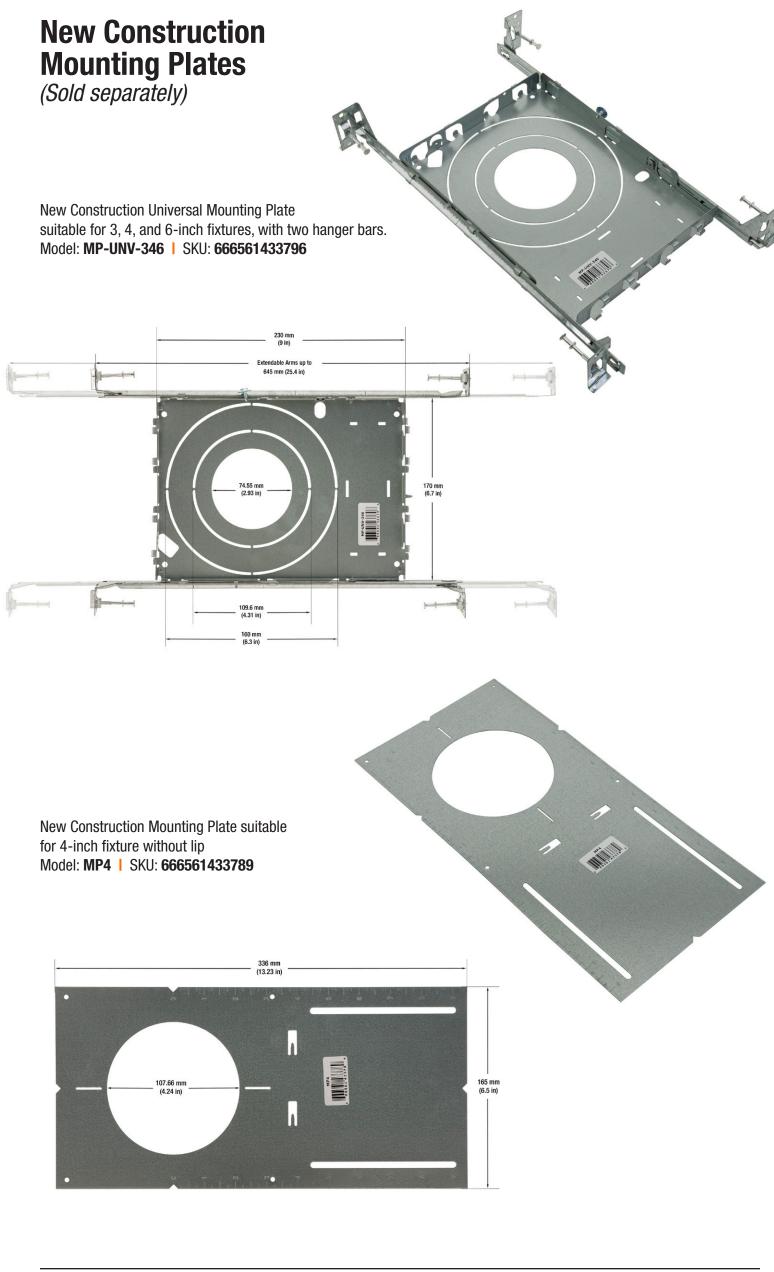




Disclaimer:

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.





Light Measurement Report

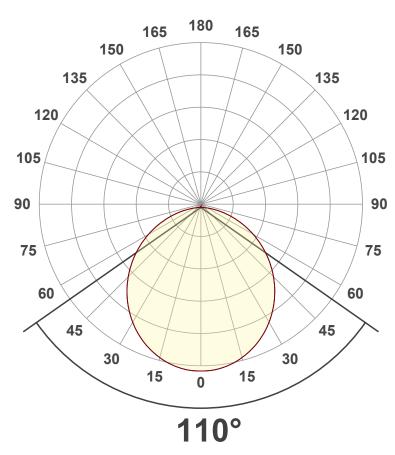
Print date: 2023-01-06

Measurement date and time: 2023-01-06 9:57:34 AM – Measurement no. VFR-230106-0048-MS



Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen) 605 lm

Lumen Up% / Down% 0.06% / 99.94%

Peak Intensity 218 cd

Beam Angle (50%) 110°

Beam Angle (90%) 109.5°

Beam Angle (10%) 109.5°

Cut-off Angle

Average 2,5% 173.7°

Field Angle

Average 10% 160.9°

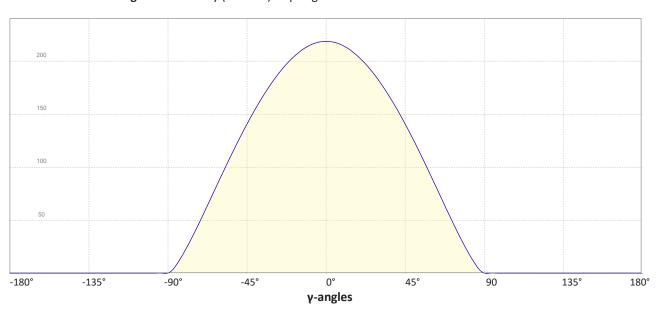
Intensity Ratio

In 120° cone 79.4% In 90° cone 54.5%

C000-C180

C090-C270

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



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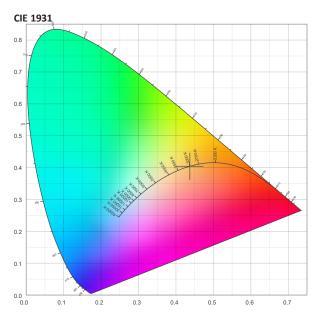


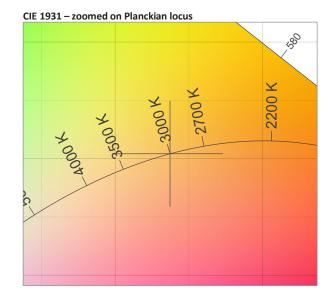
Color details

Correlated Color Temperature, Target Correlated Color Temperature, Measured Color Rendering Index Color Rendering Index, R9 (red component) Color Rendering TM30-18 Color Quality Scale $\begin{aligned} & \text{CCT} = 3000 \text{ K} \\ & \text{CCT} = 2934 \text{ K} \\ & \text{CRI } 92.3 \\ & \text{R9} = 51.5 \\ & \text{R}_f \, 91.2 \, - \, \text{R}_g \, 101.0 \\ & \text{CQS} = 89.7 \end{aligned}$

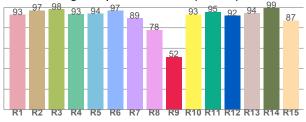
MacAdam Steps
Color coordinates CIE 1931
Color coordinate CIEs 1960
Color deviation from BBL
Color coordinate CIEs 1976 (CIELUV)

SDCM = 3.1 (x;y) = (0.437;0.404) (u;v) = (0.251;0.348)Duv = -0.0025 CIELUV) (u';v') = (0.251;0.251)



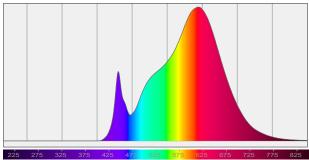


Color Rendering Index per reference color (CIE 1995)

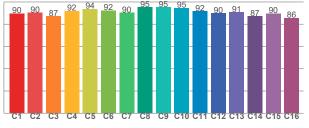


CRI R values, only R1-R8 are used to calculate final CRI value														
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.8	96.8	98.0	93.2	93.6	96.6	89.4	77.9	51.5	93.0	95.4	91.7	94.1	99.4	87.2

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

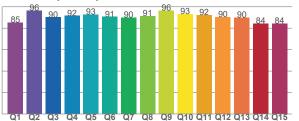


TM30-18 Rf-values per hue bin



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
89.7	90.4	87.3	91.9	93.7	92.5	90.5	95.3	95.5	94.7	91.9	89.9	90.8	87.3	89.8	85.8

Color Quality Scale by reference color



CQS Q	values													
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85.2	96.3	90.1	91.5	92.5	90.5	89.7	91.2	96.4	93.2	92.2	90.4	90.0	84.2	84.3

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Beam Details

