VEROBOARD.

6" LED Commercial Downlight Reflector Round Trim

SPECIFICATIONS



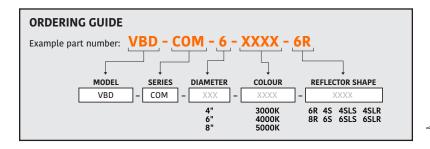


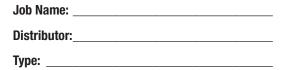
Model No.*	VBD-COM-6-XXXX-6R
Voltage	120-347V AC
Frequency	50/60Hz
Wattage	20W
Input Current	0.2A
Available Colour Temperatures	WARM WHITE LIGHT 4000K 5000K
Brightness	1650Lm
Trim Type	Open Reflector Trim
Beam Angle	60°
Colour	White
Lifespan	50,000 Hours
Dimmable	Yes (0-10 Dimming)
Package Content	J Box structured engine, Reflector trim
Dimensions (Reflector)	Diameter: 194mm (7.62") Overall Depth: 133.35mm (5.25")
Dimensions (Cut Size)	150mm (5.6")

^{*} Please see the "Ordering Guide" table at the bottom of this page for how to place your order.

Features

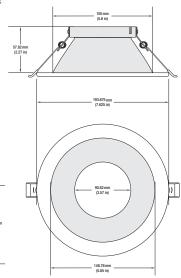
- Comes with a 20W engine that has an inbuilt LED Driver, J-Box structured with good heat dissipation.
- Choose the options which best suits you. Warm White (3000K), Natural White (4000K), and Daylight (5000K).
- The 20W engine is compatible with all commercial lighting reflector trims (CPS series Model).
- Applicable for Indoor use only (dry and damp locations).
- Has a lifespan of 50,000 hours.
- It can be dimmed using a 0-10v dimmer.
- These commercial downlights come in 4 inches, 6 inches, in different shapes (Round, Square).
- We also carry this engine downlight for sloped ceilings in wall wash trims.
- Easy for installation with push springs.
- The J-Box engine has an anti-UV Frosted Polycarbonate Lens that helps in even light transmission, prevents discoloration.
- It is suitable for recessed lighting of commercial and public places and elegantly decorate the ambiance, in shopping malls, hospital, airport, hotel lobbies, and similar places.
- · It is a highly efficient product with an Energy Star logo.







ABLE COLOR TEMPERATURE



Safety and Warning

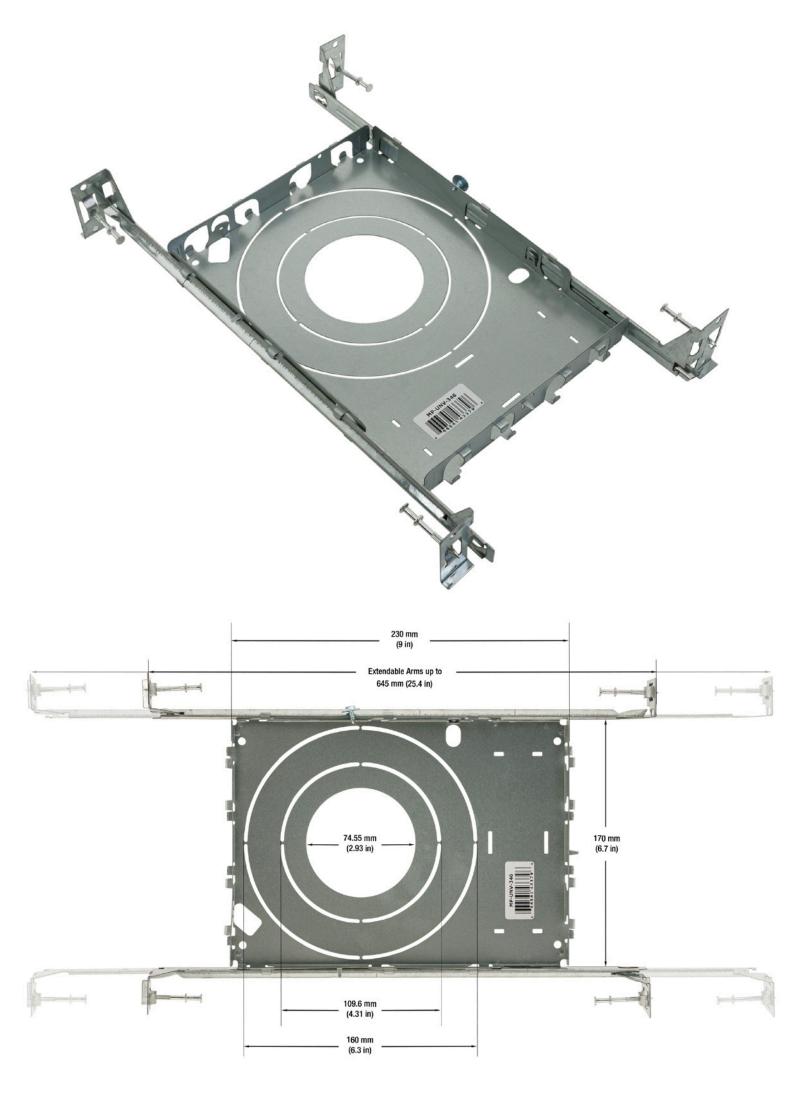
The fixture must be wired in accordance with local electrical codes. All the installation must be done by a certified electrician. Do not modify the product, any modification may render the product unsafe and void the warranty.

SKU: 666561415914

New Construction Universal Mounting Plate

(Sold separately)

New Construction Universal Mounting Plate suitable for 3, 4, and 6-inch fixtures, with two hanger bars. Model: **VBD-MP-UNV-346** | SKU: **666561433796**



Light Measurement Report

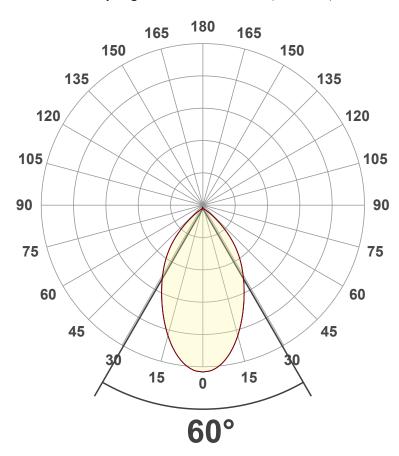
Print date: 2023-01-26

Measurement date and time: 2023-01-26 10:29:59 AM – Measurement no. VFR-230126-0007-MS



Luminous Intensity diagram

Unit: 0-100% of peak intensity



Main Values

Output (total Lumen) 1650 lm

Lumen Up% / Down% 0.06% / 99.94%

Peak Intensity 1515 cd

Beam Angle (50%) 60°

Beam Angle (90%) 60.8°

Beam Angle (10%) 60.8°

Cut-off Angle

Average 2,5% 118.4°

Field Angle

Average 10% 103.2°

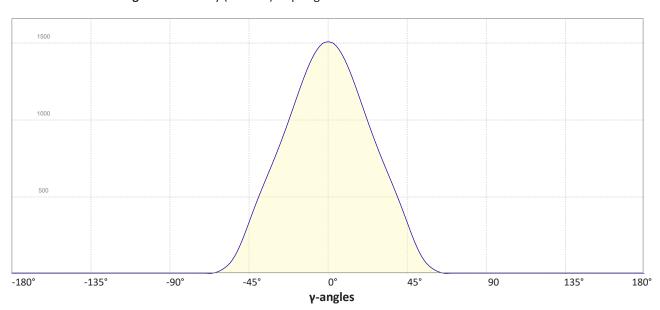
Intensity Ratio

In 120° cone 99.3% In 90° cone 87.9%

C000-C180

C090-C270

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



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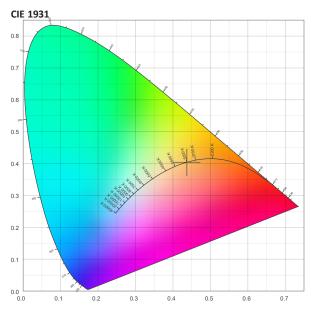


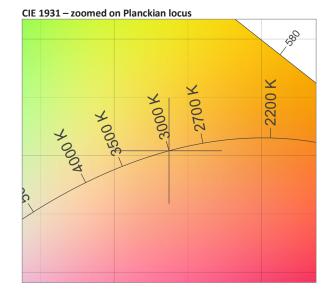
Color details

Correlated Color Temperature, Target Correlated Color Temperature, Measured Color Rendering Index Color Rendering Index, R9 (red component) Color Rendering TM30-18 Color Quality Scale
$$\label{eq:CCT} \begin{split} &\text{CCT} = 3000 \text{ K} \\ &\text{CCT} = 2935 \text{ K} \\ &\text{CRI } 82.5 \\ &\text{R9} = 6.3 \\ &\text{R}_f \, 84.3 \, - \, \text{R}_g \, 93.7 \\ &\text{CQS} = 81.9 \end{split}$$

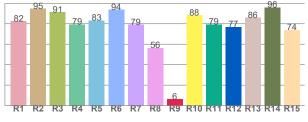
MacAdam Steps Color coordinates CIE 1931 Color coordinate CIEs 1960 Color deviation from BBL Color coordinate CIEs 1976 (CIELUV)

SDCM = 2.9 1931 (x;y) = (0.437;0.404) 1960 (u;v) = (0.251;0.348) BBL Duv = -0.0024 1976 (CIELUV) (u';v') = (0.251;0.251)



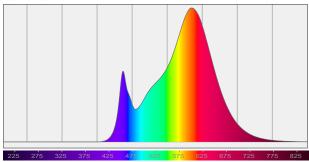


Color Rendering Index per reference color (CIE 1995)

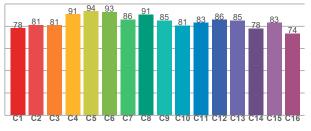


CRI R values, only R1-R8 are used to calculate final CRI value															
ſ	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
	82.5	94.8	91.4	79.4	83.2	93.7	79.1	56.3	6.3	88.2	79.3	76.9	86.0	96.0	74.0

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

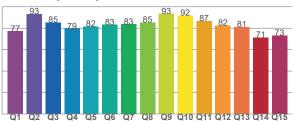


TM30-18 Rf-values per hue bin



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
	78.2	81.1	81.0	90.9	93.7	92.8	86.1	90.7	85.2	80.8	83.2	86.0	85.2	78.0	83.2	73.6

Color Quality Scale by reference color



cqs q values															
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
	77.0	93.2	85.3	79.4	81.5	83.1	83.5	85.3	93.4	91.6	86.6	82.4	80.9	71.1	73.0

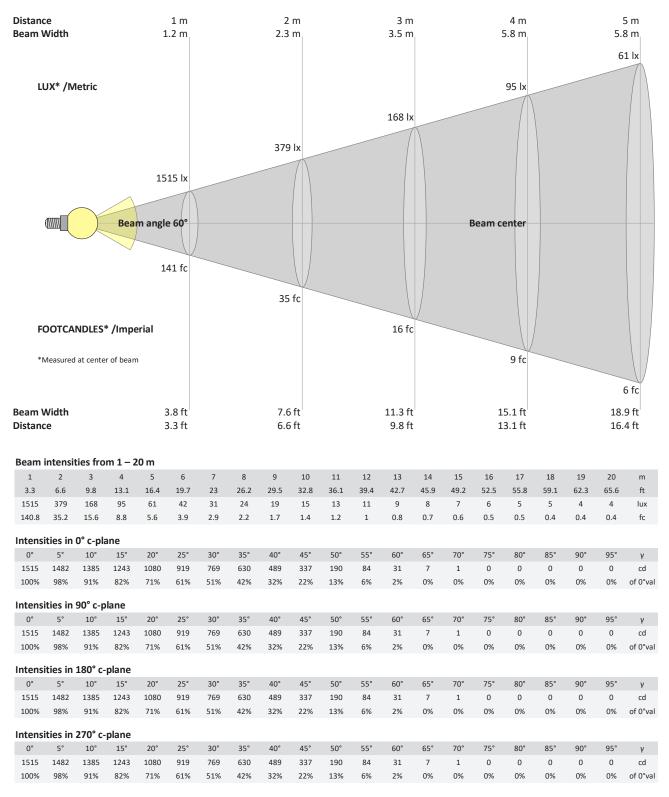
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Beam Details



AVAILABLE OTHER TRIM MODELS

8" LED Commercial Downlight Reflector Round Trim



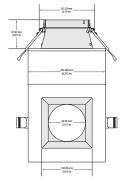




4" LED Commercial Downlight Reflector Square Trim







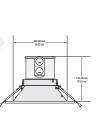


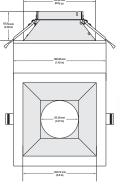
SKU: 666561419943



6" LED Commercial Downlight Reflector Square Trim







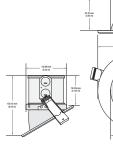


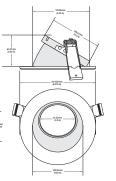
SKU: 666561419950



4" LED Commercial Downlight Sloped Ceiling Reflector Round Trim





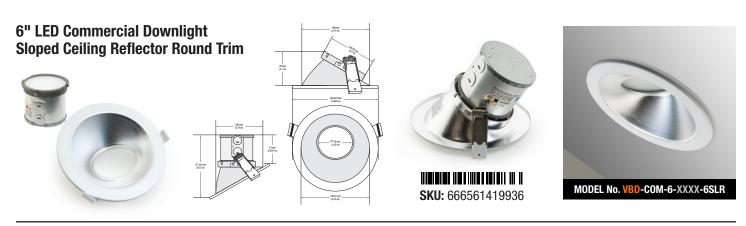




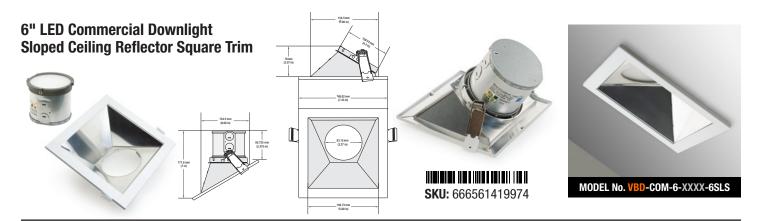
SKU: 666561419929



AVAILABLE OTHER TRIM MODELS







Notes:			

Disclaimer:

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