

Job Name: _____

Distributor: _____

Type: _____

2" Round Recessed LED In-ground Light, 24V 2.5W, 3000K (Warm White)

SPECIFICATIONS



Model No.	VBD-B2WDR0157A-C
Input Voltage	24V DC
Light Source	1 x 2W LED
Wattage	2.5W
Color Temperature	3000K (Warm White)
Brightness	650 Lumens
Lens Type	Clear
Beam Angle	30°
Housing Material	Die-cast Aluminum body
Cap Material	Stainless Steel
IP Rating	IP67 (Outdoor rated)
IK Rating	IK08
Dimmable	No
Dimensions without Housing (Engine)	Base Diameter: 40mm (1.57") Height: 77mm (3.1") Diameter: 55mm (2.15")
Dimensions with Housing	Base Diameter: 80mm (3.1") Overall Height: 97mm (3.8") Diameter: 55mm (2.15")
Cut Size	35mm (1.34")
Cable Size	Length: 55cm (21.6") Diameter: 7.5mm (0.29") 18AWG
Certification	ETL/CE

FEATURES

- 2-inch round recessed LED in-ground light for various outdoor applications.
- Operates on 24V DC with a total power consumption of 2.5W and single 2W LED.
- Warm white color temperature of 3000K and clear lens type for more illumination.
- Durable, drivable in-ground light for long-lasting outdoor illumination.
- Die-cast aluminum body with stainless steel cap material.
- Creates a unique ambiance or offers functional illumination for walkways, garden lighting, and other desired applications.
- Maximum flexibility in power options with single or multiple LED light transformers in both dimmable or non-dimmable transformers.

ACCESSORIES (Sold Separately)



3 Way PC Waterproof Junction Box

Model: 3W-JB-M686

SKU: 666561434182



3 Way Outdoor Screw Type Connector 2 Contact

Model: 3W-2C-SC-RGB

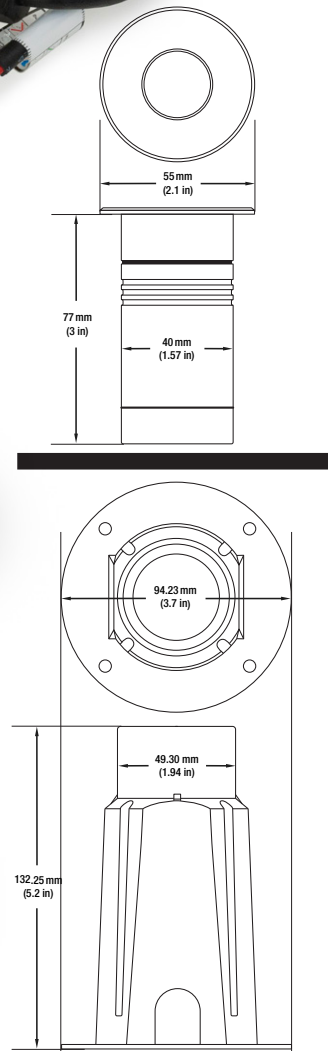
SKU: 666561406288



2 Way Outdoor Screw Type Connector 2 Contact

Model: 2W-2C-SC

SKU: 666561406295



SKU: 666561414757

Light efficiency:

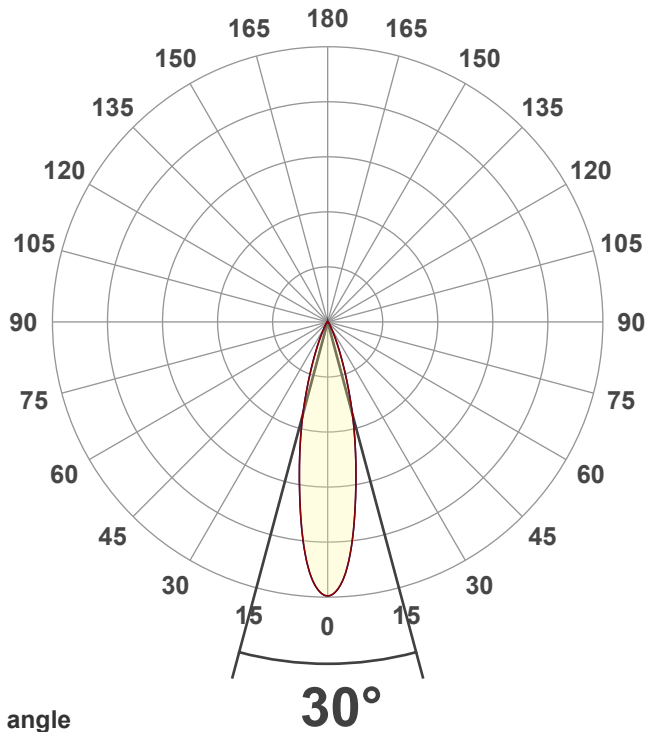
234 Lumen/Watt

Light quality:

CRI: 84.2

Color temperature:

3000 K

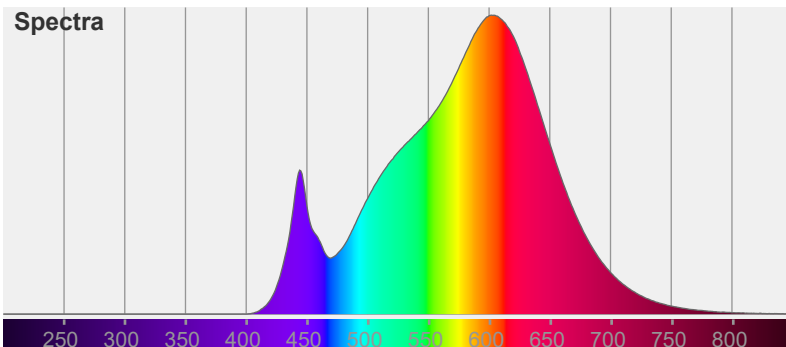


Color



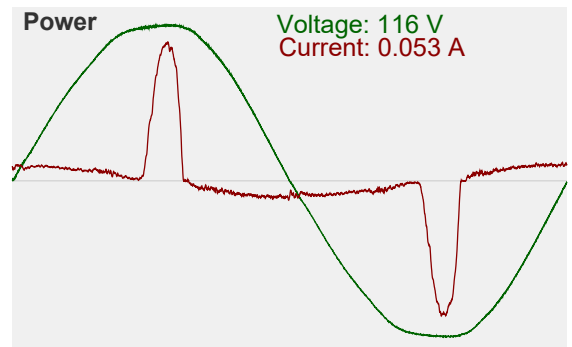
CIE1931
x: 0.431
y: 0.411

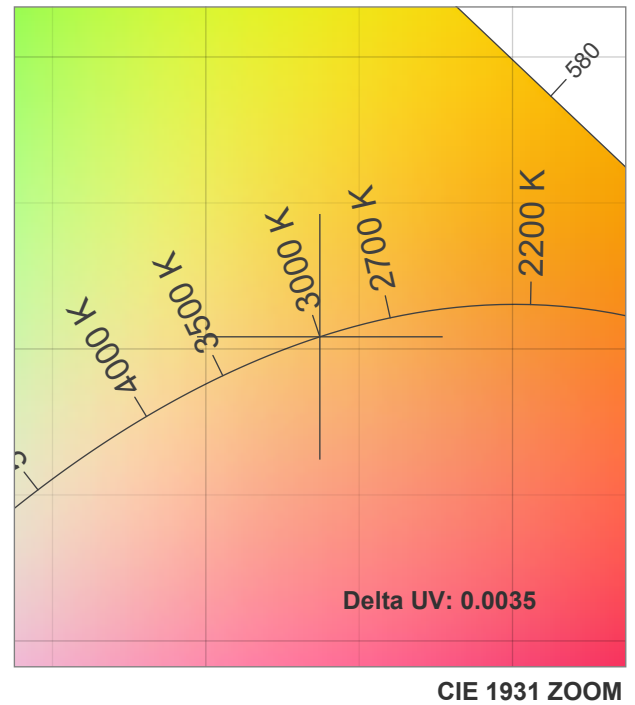
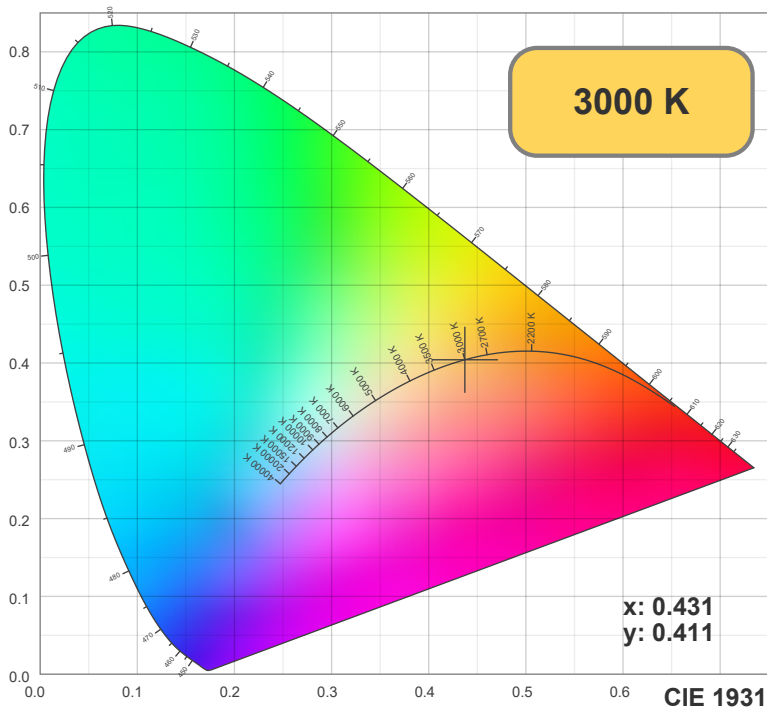
Spectra



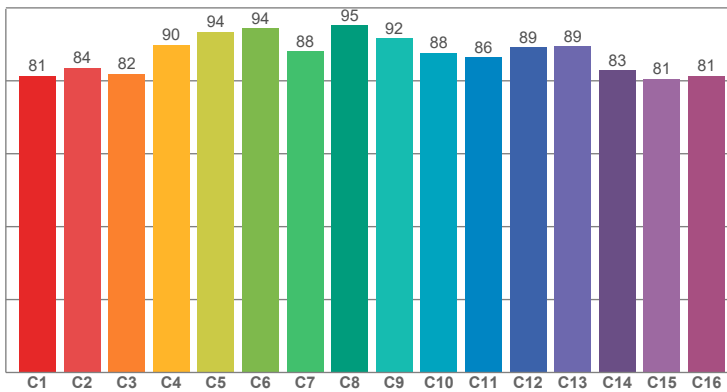
Power

Voltage: 116 V
Current: 0.053 A

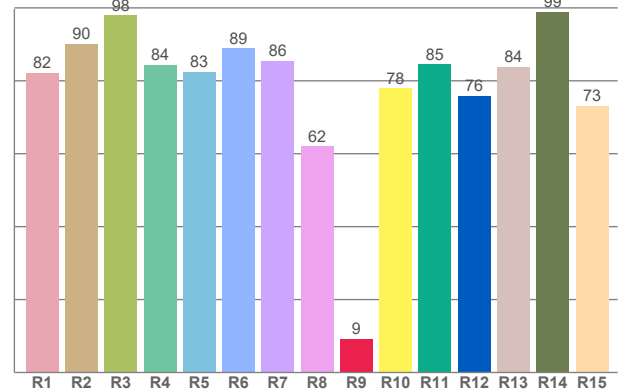




TM30: 87.3



CRI: 84.2 (R1-R8)



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
82.12	90.20	98.01	84.40	82.52	88.95	85.55	62.04	9.21	77.97	84.57	75.82	83.91	98.91	73.08

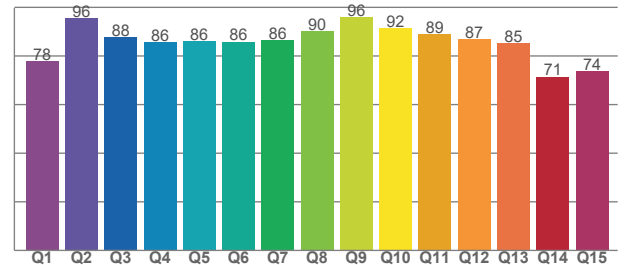
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.40	83.55	81.97	89.83	93.50	94.44	88.14	95.20	91.68	87.66	86.44	89.17	89.48	82.88	80.56	81.35

CQS Q values

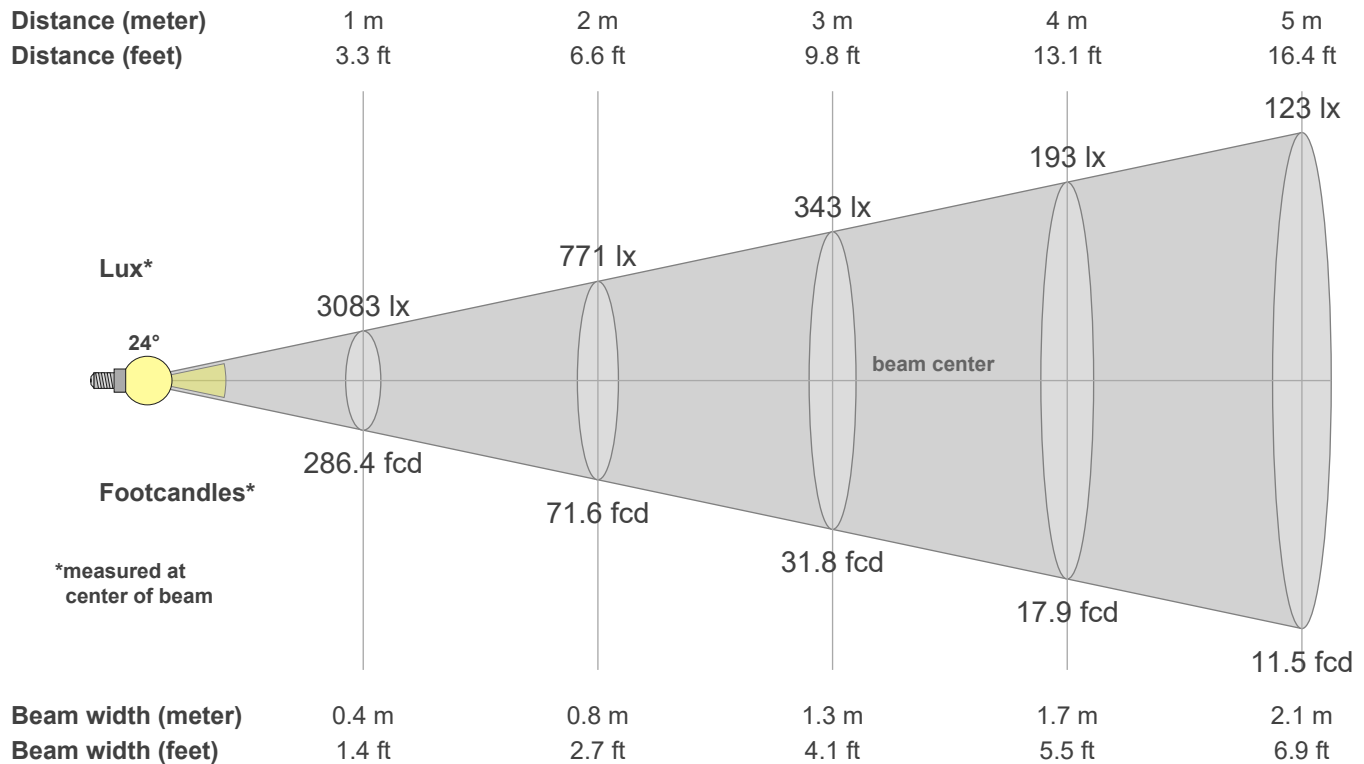
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.96	95.61	87.88	85.65	86.20	85.89	86.45	90.24	96.13	91.55	89.14	87.00	85.18	71.47	73.84

CQS: 84.3



Color parameters

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Duv
3000 K	84.2	9.2	87.3	96.0	84.3	0.4	0.4	0.3	0.3	0.0035



Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3083	3021	2841	2549	2191	1833	1511	1218	945	700	502	352	245	167	116	83	63	49	40	32
100%	98%	92%	83%	71%	59%	49%	40%	31%	23%	16%	11%	8%	5%	4%	3%	2%	2%	1%	1%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3083	3021	2841	2549	2191	1833	1511	1218	945	700	502	352	245	167	116	83	63	49	40	32
100%	98%	92%	83%	71%	59%	49%	40%	31%	23%	16%	11%	8%	5%	4%	3%	2%	2%	1%	1%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3083	3021	2841	2549	2191	1833	1511	1218	945	700	502	352	245	167	116	83	63	49	40	32
100%	98%	92%	83%	71%	59%	49%	40%	31%	23%	16%	11%	8%	5%	4%	3%	2%	2%	1%	1%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3083	3021	2841	2549	2191	1833	1511	1218	945	700	502	352	245	167	116	83	63	49	40	32
100%	98%	92%	83%	71%	59%	49%	40%	31%	23%	16%	11%	8%	5%	4%	3%	2%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2.5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.6°	45.5°	60.9°	99.6%	98.2%