

# V3RB30M/N4M0D0X0



**opbouwarmatuur • langwerpig**

**toepassing** : Werkruimten, Auditoria, Algemene onderwijsruimten, Ruimten voor algemene gezondheidszorg

**behuizing**: gelakt aluminium

**lichtbron** : led • 4000 K

**optiek** : Shielded lens • Zwart polycarbonaat (PC) • zeer breedstralend

**UGR classificatie** : <=19

**lichtstroom**: 2900 lm

**efficiëntie** : 136 lm/W

**LLMF**: 97% @ 50khrs (Tq=25°C)

## Product information

### Mechanische eigenschappen

**afmetingen** : 1827 mm x 60 mm x 90 mm

**kleur**: RAL9005 - gitzwart (structuurlak)

**type** : individueel armatuur

**IP**: IP20

**IK**: IK07

### Elektrische uitrusting

**driver**: DALI dimbaar

**opgenomen vermogen** : 21.4 W

**spanning** : 220-240V

**frequentie** : 50-60Hz AC

**fotobiologische veiligheid** : EN 62471: RISK GROUP 1 UNLIMITED

## Luminantie

lichtstroom : 2900 lm

efficiëntie : 136 lm/W

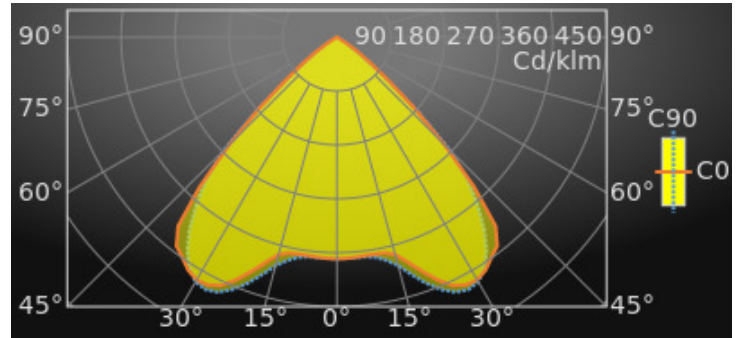
luminantie @ 65° <= : 1000 cd/m<sup>2</sup>

UGR classificatie <=: <=19

lichtgevende oppervlakte : 0.1 m<sup>2</sup>

Average Luminances (Cd/m<sup>2</sup>) for 2900lm

Gamma	C0	C30	C45	C60	C90
45°	10147	16568	19009	15217	10725
50°	4823	10503	16791	11706	4326
55°	2085	6856	9046	4947	1390
60°	316	2596	3248	2348	764
65°	0	281	920	806	323
70°	0	0	8	151	24
75°	0	0	0	0	9
80°	1	0	0	0	20
85°	0	0	0	0	0



## Classificaties

CIE: 675 / 989 / 1000 / 1000 / 1000

CIE FLUXCODE : 0.67 / 0.99 / 1.00 / 1.00 / 1.00

BZ: BZ2

CAE: Symmetrical

DIN: A50 (Nach Arbeitsblatt 7)

DIN\_U: Phi u = 1.00

DIN\_SU: Phi su = 0.69

UTE: 1.00 C + 0.00 T

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Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	100	2
20	99	4
30	99	6
40	98	8
50	98	10
60	97	12

UGR classificatie <=

Corrected Glare Ratings for a Total Lamp Flux of 2900lm (S = 0.25H)

Room Dimensions	Room Reflection Factors (%)																			
	Ceiling	Walls	Floor	70	70	50	50	30	70	70	50	50	30							
	70	70	50	50	30	70	70	50	50	30	70	70	50	50	30					
	50	30	50	30	30	50	30	50	30	50	30	50	30	50	30					
	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20					
Room Dimensions	Viewed Crosswise					Viewed Endwise														
X = 2H Y = 2H	18.9	20.5	19.2	20.8	21.1	18.5	20.2	18.8	20.5	20.7										
Y = 3H	18.7	20.2	19.0	20.5	20.8	18.4	19.8	18.7	20.1	20.4										
Y = 4H	18.6	20.0	19.0	20.3	20.6	18.3	19.7	18.6	20.0	20.3										
Y = 6H	18.5	19.8	18.9	20.1	20.4	18.2	19.5	18.6	19.8	20.1										
Y = 8H	18.5	19.7	18.9	20.0	20.4	18.2	19.4	18.5	19.7	20.0										
Y = 12H	18.5	19.6	18.8	19.9	20.3	18.1	19.3	18.5	19.6	20.0										
X = 4H Y = 2H	18.8	20.1	19.1	20.4	20.7	18.5	19.8	18.8	20.1	20.4										
Y = 3H	18.6	19.8	19.0	20.1	20.4	18.3	19.5	18.7	19.8	20.1										
Y = 4H	18.5	19.5	18.9	19.9	20.3	18.2	19.2	18.6	19.6	20.0										
Y = 6H	18.5	19.3	18.9	19.7	20.1	18.2	19.1	18.6	19.4	19.8										
Y = 8H	18.4	19.2	18.9	19.6	20.1	18.1	19.0	18.6	19.4	19.8										
Y = 12H	18.4	19.1	18.9	19.6	20.0	18.1	18.8	18.6	19.3	19.7										
X = 8H Y = 4H	18.4	19.2	18.9	19.6	20.1	18.1	19.0	18.6	19.4	19.8										
Y = 6H	18.4	19.0	18.8	19.5	19.9	18.1	18.8	18.5	19.2	19.6										
Y = 8H	18.3	18.9	18.8	19.4	19.9	18.1	18.6	18.5	19.1	19.6										
Y = 12H	18.3	18.8	18.8	19.3	19.8	18.0	18.5	18.5	19.0	19.5										
X = 12H Y = 4H	18.4	19.1	18.9	19.6	20.0	18.1	18.8	18.6	19.3	19.7										
Y = 6H	18.3	18.9	18.8	19.4	19.9	18.1	18.6	18.5	19.1	19.6										
Y = 8H	18.3	18.8	18.8	19.3	19.8	18.0	18.5	18.5	19.0	19.5										
<b>UGR Variations with Observer Position for Luminaire Spacings S</b>																				
S = 1.0H	+2.6					-6.1					+2.6					-8.1				
S = 1.5H	+4.5					-27.5					+4.8					-16.3				
S = 2.0H	+5.2					-71.8					+5.1					-24.3				

Lichtsterkten in cd

Intensity for 2900lm

Gamma	C0	C45	C90
0°	1073.2	1073.2	1073.2
5°	1069.9	1069.8	1071.5
10°	1067.0	1063.6	1081.9
15°	1090.0	1075.4	1146.0
20°	1207.3	1121.2	1268.9
25°	1326.5	1252.1	1362.0
30°	1356.8	1375.2	1368.3
35°	1302.7	1461.4	1262.2
40°	1194.9	1496.1	1056.1
45°	732.9	1373.0	774.6
50°	316.7	1102.4	284.0
55°	122.2	530.0	81.5
60°	16.1	165.9	39.0
65°	0.0	39.7	13.9
70°	0.0	0.3	0.9
75°	0.0	0.0	0.2
80°	0.0	0.0	0.4
85°	0.0	0.0	0.0
90°	0.0	0.0	0.0

Kleureigenschappen

Correlated Colour Temperature : 4000

Ra: 80



## Rendement

Utilisation Factors according to IES (%)

	Room Reflection Factors (%)									
	80	80	80	50	50	50	30	30	30	0
Ceiling	80	80	80	50	50	50	30	30	30	0
Walls	50	30	10	50	30	10	50	30	10	0
Floor	20	20	20	20	20	20	20	20	20	0
RCR = 1	108	106	104	102	100	99	98	97	96	90
2	97	94	91	92	89	87	89	87	85	80
3	88	82	79	83	79	76	81	77	75	71
4	79	73	68	75	71	67	73	69	66	62
5	72	65	60	69	63	59	67	62	58	55
6	65	58	53	62	56	52	61	56	52	49
7	59	52	47	57	51	46	56	50	46	44
8	54	47	42	52	46	42	51	45	41	39
9	50	43	38	48	42	37	47	41	37	35
10	46	39	34	44	38	34	43	38	34	32

Utilisation Factors according to LiTG (%)

	Room Reflection Factors (%)									
	80	80	80	50	50	50	50	50	30	0
Ceiling	80	80	80	50	50	50	50	50	30	0
Walls	50	30	50	30	50	30	50	30	30	0
Floor	30	30	10	10	30	30	10	10	10	0
k = 0.60	55	47	53	46	53	46	51	45	45	39
0.80	69	61	65	59	66	59	63	58	57	51
1.00	78	70	73	67	75	68	71	66	65	59
1.25	89	81	81	76	84	78	79	74	74	69
1.50	95	88	86	81	89	84	84	80	79	74
2.00	102	96	91	87	95	90	89	85	84	80
2.50	108	102	95	92	100	96	93	90	89	84
3.00	112	107	98	96	104	100	96	93	92	88
4.00	116	112	100	98	106	103	97	96	94	90
5.00	119	115	102	100	109	106	99	98	96	92

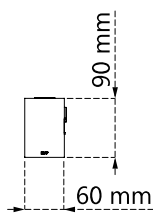
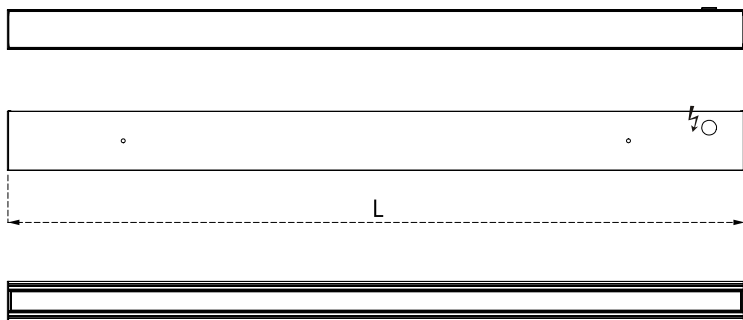
## Accessoires

V3H2500 *Beugel voor plafondmontage*

V3H9900 *Installatiedossier*

V3H9960 *Installatiegereedschap*

## Maatschets



CODE	L
V3WD*0*/*2*	560 mm
V3WD*0*/*3*	843 mm
V3WD*0*/*4*	1123 mm
V3WD*0*/*5*	1403 mm
V3WD*0*/*6*	1683 mm
V3WD*0*/*7*	1963 mm
V3WD*0*/*8*	2243 mm
V3WD*0*/*9*	2523 mm
V3WD*0*/*0*	2803 mm