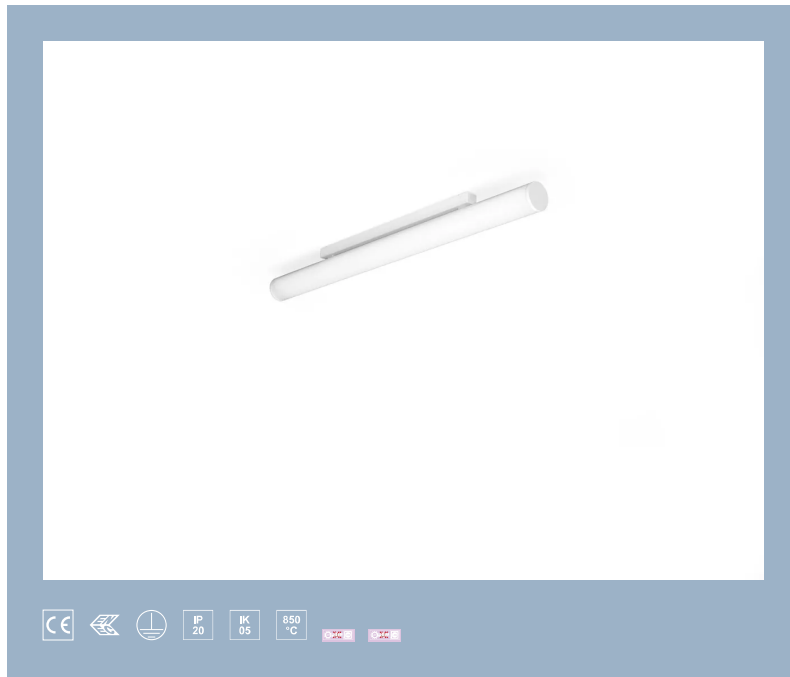


R820R1/LEDW45D



opbouwarmatuur • langwerpig

Toepassing : Algemene kantoorruimten, Algemene onderwijsruimten, Ruimten voor algemene gezondheidszorg

lichtbron : led • 3000 K

optiek : HaloOptics diffusor • Polycarbonaat (PC)
HaloOptics® • breedstralend

UGR classificatie : <=25

lichtstroom: 4550 lm

efficiëntie : 114 lm/W

LLMF: 92% @ 50khrs (Tq=25°C)

Product information

Mechanische eigenschappen

afmetingen : 1162 mm x 80 mm x 121 mm

kleur: RAL9003 - signaalwit (structuurlak)

type : individueel armatuur

IP: IP20

IK: IK05

Elektrische uitrusting

driver: DALI dimbaar

opgenomen vermogen : 40 W

spanning : 220-240V

frequentie : 50-60Hz AC

fotobiologische veiligheid : EN 62471: RISK GROUP 0
UNLIMITED

Luminantie

lichtstroom : 4550 lm

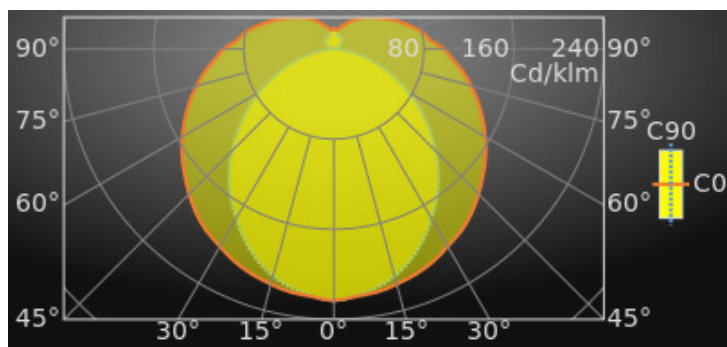
efficiëntie : 114 lm/W

UGR classificatie =: <=25

lichtgevende oppervlakte : 0.09 m²

Average Luminances (Cd/m²) for 4550lm

Gamma	C0	C30	C45	C60	C90
45°	6431	6416	6449	6683	8914
50°	6153	6104	6102	6251	8498
55°	5924	5829	5756	5828	8054
60°	5702	5558	5447	5427	7537
65°	5513	5337	5173	5045	6982
70°	5352	5134	4945	4721	6363
75°	5185	4967	4754	4451	5586
80°	5075	4855	4604	4233	4680
85°	4946	4729	4478	4096	3285



Classificaties

CIE: 300 / 522 / 679 / 788 / 1000

CIE FLUXCODE : 0.38 / 0.66 / 0.86 / 0.79 / 1.00

BZ: BZ10/1.25/BZ5/1.5/BZ10

CAE: CAE 4/5°/CAE 3/25°/CAE 2/75°/CAE 3

DIN: B30 (Nach Arbeitsblatt 7 und 8)

DIN_U: Phi u = 0.79

DIN_SU: Phi su = 0.45

UTE: 0.79 H + 0.21 T

Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	98	2
20	97	4
30	95	6
40	94	8
50	93	10
60	91	12

Lichtsterkten in cd

Intensity for 4550lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	1016.1	1016.1	1016.1	90°	446.3	290.4	5.5
5°	1003.2	1001.4	1000.8	95°	392.1	250.6	5.0
10°	997.0	988.2	979.8	100°	370.0	233.6	8.1
15°	983.2	967.4	949.9	105°	334.2	210.6	12.7
20°	967.9	938.6	906.3	110°	302.9	190.1	18.6
25°	947.8	900.5	852.1	115°	271.8	172.4	25.0
30°	920.8	858.6	788.9	120°	245.0	157.2	31.0
35°	897.2	813.2	727.0	125°	220.7	144.1	35.9
40°	865.9	763.0	658.6	130°	199.3	132.5	42.0
45°	827.7	710.0	580.9	135°	180.2	121.4	48.0
50°	788.1	658.5	503.4	140°	162.1	112.1	51.3
55°	749.2	603.8	425.7	145°	143.2	104.0	53.8
60°	706.5	550.8	347.3	150°	127.0	95.5	52.9
65°	663.7	499.3	271.9	155°	111.6	88.2	54.2
70°	620.6	451.2	200.6	160°	98.7	80.9	52.7
75°	573.8	405.2	133.2	165°	88.0	74.5	62.4
80°	530.3	361.8	74.9	170°	78.9	73.7	72.6
85°	482.4	319.4	26.4	175°	78.8	78.4	79.0
90°	446.3	290.4	5.5	180°	82.9	82.9	82.9

UGR classificatie =

Corrected Glare Ratings for a Total Lamp Flux of 4550lm (S = 0.25H)

	Room Reflection Factors (%)									
Ceiling	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor	20	20	20	20	20	20	20	20	20	20
Room Dimensions	Viewed Crosswise					Viewed Endwise				
X = 2H Y = 2H	17.9	19.3	18.5	19.9	20.5	16.6	18.0	17.2	18.7	19.2
Y = 3H	19.9	21.2	20.6	21.9	22.5	17.9	19.2	18.5	19.8	20.4
Y = 4H	21.0	22.2	21.6	22.9	23.5	18.3	19.6	18.9	20.2	20.8
Y = 6H	22.0	23.1	22.6	23.8	24.4	18.6	19.7	19.2	20.4	21.0
Y = 8H	22.4	23.6	23.1	24.3	24.9	18.6	19.8	19.3	20.4	21.1
Y = 12H	22.9	24.0	23.6	24.7	25.3	18.6	19.7	19.3	20.4	21.1
X = 4H Y = 2H	18.4	19.6	19.0	20.3	20.9	17.4	18.6	18.0	19.3	19.9
Y = 3H	20.7	21.8	21.3	22.4	23.1	18.9	20.0	19.6	20.7	21.3
Y = 4H	21.9	22.9	22.6	23.6	24.2	19.5	20.5	20.2	21.2	21.8
Y = 6H	23.1	24.0	23.8	24.7	25.4	19.9	20.8	20.6	21.5	22.2
Y = 8H	23.7	24.5	24.4	25.2	25.9	20.1	20.9	20.8	21.6	22.3
Y = 12H	24.2	25.0	25.0	25.7	26.5	20.1	20.9	20.8	21.6	22.3
X = 8H Y = 4H	22.1	23.0	22.9	23.7	24.4	20.1	21.0	20.9	21.7	22.4
Y = 6H	23.6	24.3	24.3	25.1	25.8	20.9	21.6	21.6	22.3	23.1
Y = 8H	24.3	25.0	25.1	25.7	26.5	21.1	21.8	21.9	22.6	23.3
Y = 12H	25.1	25.7	25.9	26.5	27.2	21.3	21.9	22.1	22.7	23.4
X = 12H Y = 4H	22.1	22.9	22.9	23.7	24.4	20.3	21.1	21.0	21.8	22.5
Y = 6H	23.7	24.3	24.4	25.1	25.8	21.2	21.8	21.9	22.6	23.3
Y = 8H	24.5	25.1	25.3	25.9	26.6	21.6	22.1	22.3	22.9	23.7
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+0.1		-0.1			+0.1		-0.1		
S = 1.5H	+0.2		-0.2			+0.1		-0.2		
S = 2.0H	+0.2		-0.3			+0.3		-0.4		

Kleureigenschappen

Correlated Colour Temperature : 3000

Ra: CRI (Ra) 80

Rendement

Utilisation Factors according to IES (%)										
	Room Reflection Factors (%)									
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	94	90	88	81	79	77	74	72	70	60
2	81	75	70	69	65	62	63	59	56	48
3	70	63	58	60	55	51	55	50	47	39
4	62	54	48	53	47	43	48	43	39	33
5	55	47	41	48	41	37	43	38	34	28
6	50	41	35	43	36	32	39	34	29	24
7	45	36	31	39	32	28	36	30	26	22
8	41	33	27	36	29	25	33	27	23	19
9	37	29	24	33	26	22	30	25	21	17
10	34	27	22	30	24	20	28	22	19	15

Utilisation Factors according to LiTG (%)										
	Room Reflection Factors (%)									
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	41	32	39	31	36	29	35	28	26	19
0.80	51	41	48	39	44	37	42	36	33	25
1.00	59	49	55	46	51	43	48	42	39	30
1.25	67	57	62	54	58	51	55	49	45	36
1.50	74	64	67	59	63	56	59	54	50	40
2.00	82	73	74	67	70	64	65	60	56	46
2.50	89	80	79	72	76	70	70	65	61	51
3.00	94	86	82	77	80	74	74	69	65	54
4.00	100	93	86	82	84	80	77	74	68	58
5.00	104	98	89	85	88	84	80	77	72	61

Maatschets

