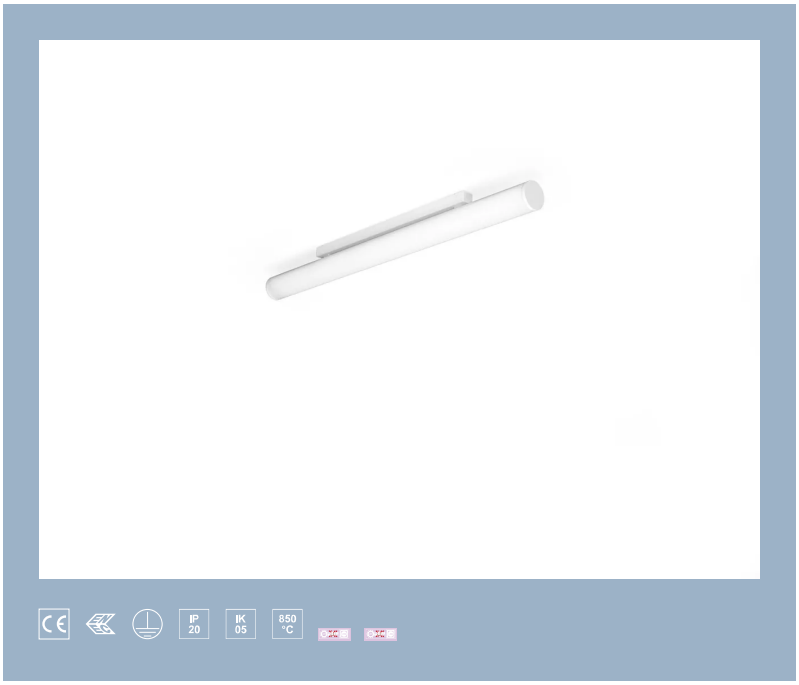
R820R1/LEDN25D



opbouwarmatuur • langwerpig

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

lichtbron : led • 4000 K

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

UGR classificatie : <=22

lichtstroom: 2550 lm

efficiëntie : 128 lm/W

LLMF: 98% @ 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 : 20 W

spanning : 220-240V

frequentie : 50-60Hz AC

fotobiologische veiligheid : EN 62471: RISK GROUP 0 UNLIMITED

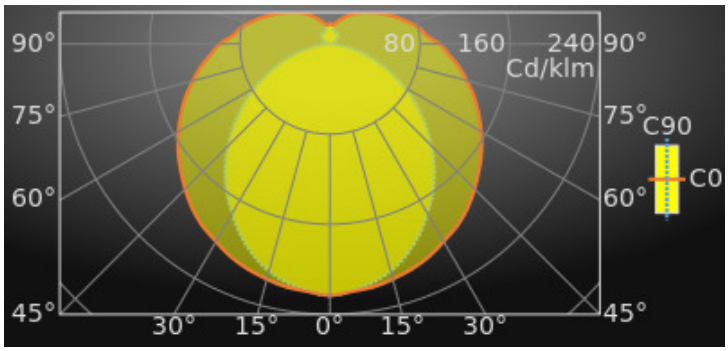
Luminantie

lichtstroom : 2550 lm

efficiëntie : 128 lm/W

UGR classificatie =: <=22

lichtgevende oppervlakte : 0.09 m²



Average Luminances (Cd/m²) for 2550lm

Gamma	C0	C30	C45	C60	C90
45°	3604	3596	3614	3745	4996
50°	3449	3421	3420	3503	4763
55°	3320	3267	3226	3266	4514
60°	3196	3115	3053	3041	4224
65°	3090	2991	2899	2828	3913
70°	3000	2877	2772	2646	3566
75°	2906	2784	2664	2494	3131
80°	2844	2721	2580	2372	2623
85°	2772	2650	2509	2295	1841

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	100	2
20	99	4
30	99	6
40	98	8
50	98	10
60	98	12

Lichtsterkten in cd

Intensity for 2550lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	569.4	569.4	569.4	90°	250.1	162.7	3.1
5°	562.2	561.2	560.9	95°	219.8	140.5	2.8
10°	558.7	553.8	549.1	100°	207.4	130.9	4.6
15°	551.0	542.2	532.4	105°	187.3	118.0	7.1
20°	542.4	526.0	507.9	110°	169.8	106.5	10.4
25°	531.2	504.7	477.6	115°	152.3	96.6	14.0
30°	516.0	481.2	442.1	120°	137.3	88.1	17.4
35°	502.8	455.8	407.4	125°	123.7	80.8	20.1
40°	485.3	427.6	369.1	130°	111.7	74.3	23.6
45°	463.9	397.9	325.5	135°	101.0	68.0	26.9
50°	441.7	369.0	282.1	140°	90.8	62.8	28.8
55°	419.9	338.4	238.6	145°	80.2	58.3	30.2
60°	396.0	308.7	194.7	150°	71.2	53.5	29.7
65°	372.0	279.9	152.4	155°	62.6	49.4	30.4
70°	347.8	252.8	112.4	160°	55.3	45.3	29.5
75°	321.6	227.1	74.7	165°	49.3	41.8	35.0
80°	297.2	202.8	42.0	170°	44.2	41.3	40.7
85°	270.4	179.0	14.8	175°	44.2	43.9	44.3
90°	250.1	162.7	3.1	180°	46.4	46.4	46.4

UGR classificatie =

Corrected Glare Ratings for a Total Lamp Flux of 2550lm (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	15.9	17.3	16.4	17.9	18.5	14.6	16.0	15.2	16.6	17.2
Y = 3H	17.9	19.2	18.5	19.9	20.5	15.8	17.2	16.5	17.8	18.4
Y = 4H	18.9	20.2	19.6	20.8	21.5	16.3	17.5	16.9	18.2	18.8
Y = 6H	19.9	21.1	20.6	21.8	22.4	16.6	17.7	17.2	18.4	19.0
Y = 8H	20.4	21.6	21.1	22.2	22.9	16.6	17.8	17.3	18.4	19.1
Y = 12H	20.9	22.0	21.6	22.7	23.3	16.6	17.7	17.3	18.4	19.0
X = 4H Y = 2H	16.3	17.6	17.0	18.2	18.9	15.4	16.6	16.0	17.3	17.9
Y = 3H	18.7	19.7	19.3	20.4	21.1	16.9	18.0	17.5	18.6	19.3
Y = 4H	19.9	20.8	20.5	21.5	22.2	17.5	18.5	18.2	19.2	19.8
Y = 6H	21.1	22.0	21.8	22.7	23.4	17.9	18.8	18.6	19.5	20.2
Y = 8H	21.7	22.5	22.4	23.2	23.9	18.0	18.9	18.8	19.6	20.3
Y = 12H	22.2	23.0	22.9	23.7	24.4	18.1	18.9	18.8	19.6	20.3
X = 8H Y = 4H	20.1	21.0	20.9	21.7	22.4	18.1	19.0	18.9	19.7	20.4
Y = 6H	21.6	22.3	22.3	23.1	23.8	18.9	19.6	19.6	20.3	21.1
Y = 8H	22.3	23.0	23.1	23.7	24.5	19.1	19.8	19.9	20.5	21.3
Y = 12H	23.1	23.7	23.9	24.4	25.2	19.3	19.9	20.1	20.7	21.4
X = 12H Y = 4H	20.1	20.9	20.9	21.7	22.4	18.3	19.0	19.0	19.8	20.5
Y = 6H	21.7	22.3	22.4	23.1	23.8	19.2	19.8	19.9	20.6	21.3
Y = 8H	22.5	23.1	23.3	23.8	24.6	19.5	20.1	20.3	20.9	21.7
	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 : 4000

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