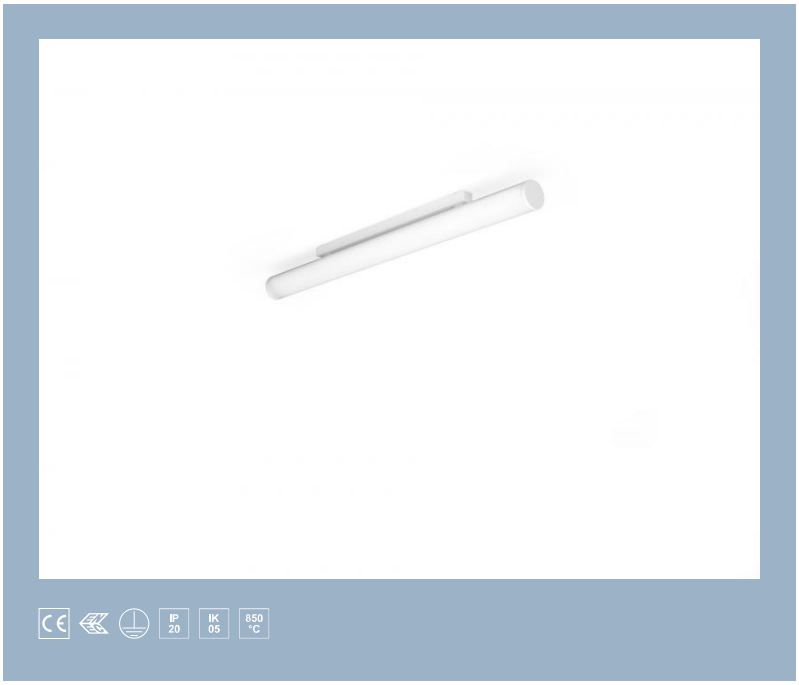
R820R1/LEDW45S



Anbauleuchte • linear

Anwendung : Büro, Gesundheitswesen, Bildungswesen, Bewirtung, Einzelhandel, Freizeit

Lichtquelle : low power LED • 3000 K

Optik : HaloOptics Diffusor • Polycarbonat (PC) HaloOptics® • breit strahlend

UGR-Klassifizierung : <=25

Lichtstrom: 4550 lm

Spezifischer Lichtstrom : 111 lm/W

LLMF: 92% @ 50khrs (Tq=25°C)

Product information

Mechanische Merkmale

Farbe: RAL9003 - signalweiß (Strukturlack)

Typ : Einzelleuchte

IP: IP20

Elektrische Ausrüstung

Betriebsgerät: nicht dimmbar

Stromverbrauch : 41 W

Spannung : 220-240V

Frequenz : 50-60Hz AC

Fotobiologische Sicherheit : EN 62471: RISK GROUP 0 UNLIMITED

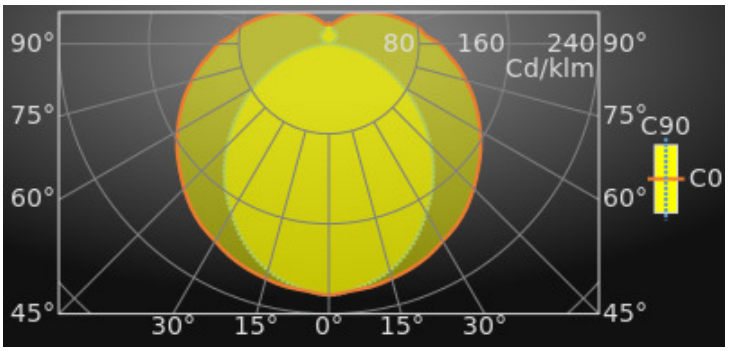
Leuchtdichte

Lichtstrom : 4550 lm

Spezifischer Lichtstrom : 111 lm/W

UGR-Klassifizierung <=25

leuchtende Fläche : 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

Klassifikationen

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

Lichtstärken in cd

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

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-Klassifizierung

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			

Colour properties

Correlated Colour Temperature : 3000

Farbwiedergabeindex Ra: 80

Leuchten-Betriebwirkungsgrad

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

Vermaßte Skizze