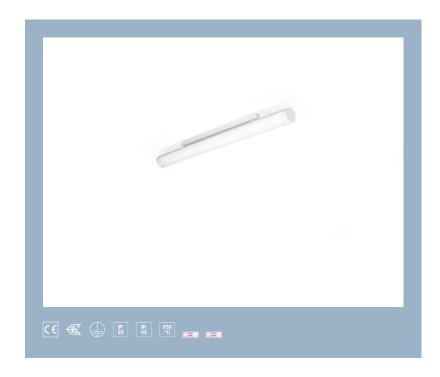
# **R820R1/LEDN45S**



#### Anbauleuchte • linear

Anwendung: Allgemeine Bürobereiche, Allgemeine Bildungsbereiche, Allgemeine Gesundheitsbereiche

Lichtquelle: LED • 4000 K

Optik: HaloOptics Diffusor • Polycarbonat (PC)

HaloOptics® • breit strahlend

UGR-Klassifizierung: <=25

Lichtstrom: 4500 lm

Spezifischer Lichtstrom: 115 lm/W

LLMF: 94% @ 50khrs (Tq=25°C)

## **Product information**

# **Mechanische Merkmale**

Abmessungen: 1162 mm x 80 mm x 121 mm

Farbe: RAL9003 - signalweiß (Strukturlack)

Typ: Einzelleuchte

IP: IP20

IK: IK05

## **Elektrische Ausrüstung**

Betriebsgerät: nicht dimmbar

Anschlussleistung: 39 W

Spannung: 220-240V

Frequenz: 50-60Hz AC

Fotobiologische Sicherheit: EN 62471: RISK GROUP 0

UNLIMITED



#### Leuchtdichte

Lichtstrom: 4500 lm

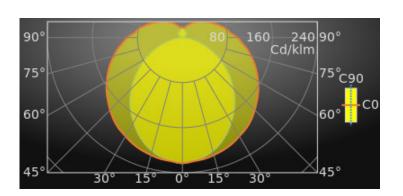
Spezifischer Lichtstrom: 115 lm/W

UGR-Klassifizierung =: <=25

leuchtende Fläche: 0.09 m²

Average Luminances (Cd/m²) for 4500lm

	werage Lumii	iances (Co	//////////////////////////////////////	3001111	
Gamma	C0	C30	C45	C60	C90
45°	6360	6345	6378	6609	8816
50°	6086	6037	6035	6182	8405
55°	5859	5765	5693	5764	7965
60°	5640	5497	5387	5367	7455
65°	5453	5279	5116	4990	6906
70°	5293	5078	4891	4670	6293
75°	5128	4913	4702	4402	5525
80°	5019	4802	4554	4186	4628
85°	4891	4677	4429	4051	3249



## 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



## Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	99	2
20	98	4
30	97	6
40	95	8
50	94	10
60	93	12

# Lichtstärken in cd

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	1004.9	1004.9	1004.9	90°	441.4	287.2	5.4
5°	992.2	990.4	989.8	95°	387.8	247.9	4.9
10°	986.0	977.3	969.1	100°	365.9	231.1	8.0
15°	972.4	956.8	939.4	105°	330.5	208.2	12.6
20°	957.2	928.3	896.3	110°	299.6	188.0	18.4
25°	937.4	890.6	842.8	115°	268.8	170.5	24.7
30°	910.7	849.2	780.2	120°	242.3	155.5	30.6
35°	887.3	804.3	719.0	125°	218.3	142.5	35.5
40°	856.4	754.6	651.3	130°	197.2	131.1	41.6
45°	818.6	702.2	574.5	135°	178.2	120.0	47.4
50°	779.4	651.2	497.9	140°	160.3	110.8	50.8
55°	740.9	597.2	421.1	145°	141.6	102.8	53.2
60°	698.8	544.7	343.5	150°	125.6	94.4	52.4
65°	656.4	493.9	269.0	155°	110.4	87.2	53.6
70°	613.8	446.2	198.4	160°	97.6	80.0	52.1
75°	567.5	400.7	131.8	165°	87.1	73.7	61.8
80°	524.5	357.8	74.1	170°	78.0	72.9	71.8
85°	477.1	315.9	26.1	175°	77.9	77.5	78.2
90°	441.4	287.2	5.4	180°	81.9	81.9	81.9

# **UGR-Klassifizierung =**

Corrected Glare Ratings for a Total Lamp Flux of 4500lm (S = 0.25H)

	Room Reflection Factors (%)										
Ceiling Walls Floor	70 50 20	70 30 20	50 50 20	50 30 20	30 30 20	70 50 20	70 30 20	50 50 20	50 30 20	30 30 20	
Room Dimensions		Viewe	d Cros	sswise	Viewed Endwise						
X = 2H Y = 2H	17.8	19.3	18.4	19.9	20.4	16.6	18.0	17.2	18.6	19.2	
Y = 3H	19.9	21.2	20.5	21.8	22.4	17.8	19.1	18.4	19.8	20.4	
Y = 4H	20.9	22.2	21.6	22.8	23.4	18.3	19.5	18.9	20.2	20.8	
Y = 6H	21.9	23.1	22.6	23.8	24.4	18.5	19.7	19.2	20.4	21.0	
Y = 8H	22.4	23.5	23.1	24.2	24.8	18.6	19.7	19.3	20.4	21.0	
Y = 12H	22.9	24.0	23.5	24.6	25.3	18.6	19.7	19.3	20.4	21.0	
X = 4H Y = 2H	18.3	19.6	19.0	20.2	20.8	17.3	18.6	18.0	19.2	19.8	
Y = 3H	20.6	21.7	21.3	22.4	23.0	18.8	19.9	19.5	20.6	21.3	
Y = 4H	21.8	22.8	22.5	23.5	24.2	19.5	20.4	20.1	21.1	21.8	
Y = 6H	23.0	23.9	23.8	24.7	25.3	19.9	20.8	20.6	21.5	22.2	
Y = 8H	23.6	24.5	24.3	25.2	25.9	20.0	20.8	20.7	21.6	22.3	
Y = 12H	24.2	25.0	24.9	25.7	26.4	20.1	20.8	20.8	21.6	22.3	
X = 8H Y = 4H	22.1	22.9	22.8	23.7	24.4	20.1	20.9	20.8	21.7	22.4	
Y = 6H	23.6	24.3	24.3	25.0	25.8	20.8	21.5	21.6	22.3	23.0	
Y = 8H	24.3	24.9	25.1	25.7	26.5	21.1	21.7	21.9	22.5	23.3	
Y = 12H	25.1	25.6	25.8	26.4	27.2	21.3	21.8	22.1	22.6	23.4	
X = 12H Y = 4H	22.1	22.9	22.8	23.6	24.3	20.3	21.0	21.0	21.8	22.5	
Y = 6H	23.6	24.3	24.4	25.0	25.8	21.1	21.8	21.9	22.5	23.3	
Y = 8H	24.5	25.0	25.2	25.8	26.6	21.5	22.1	22.3	22.9	23.6	
	UG	SR Va	riation	s with	Obsei Spaci	rver Po ngs S	sition	for Lu	ıminai	re	
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: 4000

Farbwiedergabeindex Ra: CRI (Ra) 80



# Leuchten-Betriebwirkungsgrad

Utilisation Factors according to IES (%)

Utilisation Factors acc	cording to LiTG (%)
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	Room Reflection Factors (%)											
Ceiling Walls Floor	80 50 20	80 30 20	80 10 20	50 50 20	50 30 20	50 10 20	30 50 20	30 30 20	30 10 20	0 0 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		

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	<b>Room Reflection Factors (%)</b>									
Ceiling Walls Floor	80 50 30	80 30 30	80 50 10	50 30 10	50 50 30	50 30 30	50 50 10	50 30 10	30 30 10	0 0 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

