

# R811R1/LEDN15S

pendelarmatuur • langwerpig

*toepassing* : kantoor, gezondheidszorg, onderwijs, horeca, retail, vrije tijd

*lichtbron* : LED LP • 4000 K

*optiek* : Diffusor • HaloOptics® voor hoge efficiëntie • breedstralend

*UGR classificatie* : <=22

*lichtstroom*: 1800 lm

*efficiëntie* : 120 lm/W

*LLMF*: 98% @ 50khrs (Tq=25°C)



## Mechanische eigenschappen

*afmetingen* : 787 mm x 80 mm x 121 mm

*kleur*: RAL9003-siginaalwit (structuurlak)

*type* : individueel armatuur

## Luminantie

*lichtstroom* : 1800 lm

*efficiëntie* : 120 lm/W

*UGR classificatie*: <=22

*lichtgevende oppervlakte* : 0.06 m<sup>2</sup>

## Elektrische uitrusting

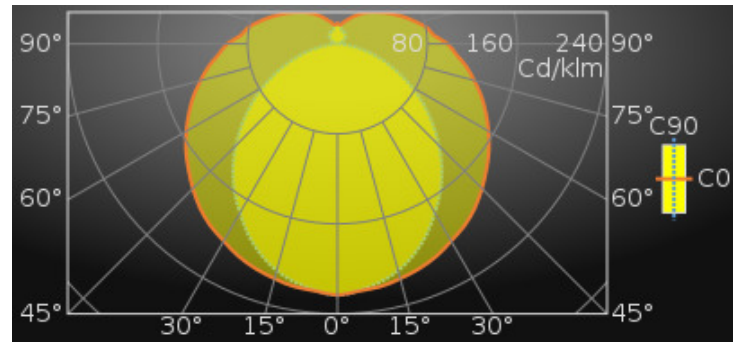
*driver*: niet-dimbaar

*opgenomen vermogen* : 15 W

*spanning* : 220-240V

*frequentie* : 50-60Hz AC

*fotobiologische veiligheid* : IEC/TR 62778: RG 0



Average Luminances (Cd/m<sup>2</sup>) for 1800lm

Gamma	C0	C30	C45	C60	C90
45°	3767	3758	3778	3915	5221
50°	3605	3576	3574	3661	4978
55°	3470	3415	3372	3414	4718
60°	3340	3256	3191	3179	4415
65°	3230	3127	3030	2955	4090
70°	3135	3007	2897	2766	3727
75°	3038	2910	2785	2607	3272

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## 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

DIN\_SO: Phi so = 0.42

UTE: 0.79 H + 0.21 T

## Lichtsterkten in cd

Lifetime Data (Tq=25.0°C)

Time (khrs)	LLMF	LSF
10.0	1.00	0.98
20.0	0.99	0.96
30.0	0.99	0.94
40.0	0.98	0.92
50.0	0.98	0.90
60.0	0.97	0.88

Intensity for 1800lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	402.0	402.0	402.0	90°	176.5	114.9	2.2
5°	396.9	396.1	395.9	95°	155.1	99.1	2.0
10°	394.4	390.9	387.6	100°	146.4	92.4	3.2
15°	388.9	382.7	375.8	105°	132.2	83.3	5.0
20°	382.9	371.3	358.5	110°	119.8	75.2	7.3
25°	375.0	356.2	337.1	115°	107.5	68.2	9.9
30°	364.3	339.7	312.1	120°	96.9	62.2	12.2
35°	354.9	321.7	287.6	125°	87.3	57.0	14.2
40°	342.5	301.9	260.5	130°	78.9	52.4	16.6
45°	327.4	280.9	229.8	135°	71.3	48.0	19.0
50°	311.8	260.5	199.2	140°	64.1	44.3	20.3
55°	296.4	238.9	168.4	145°	56.6	41.1	21.3
60°	279.5	217.9	137.4	150°	50.2	37.8	20.9
65°	262.6	197.5	107.6	155°	44.2	34.9	21.5
70°	245.5	178.5	79.3	160°	39.1	32.0	20.8
75°	227.0	160.3	52.7	165°	34.8	29.5	24.7
80°	209.8	143.1	29.6	170°	31.2	29.2	28.7
85°	190.8	126.4	10.4	175°	31.2	31.0	31.3
90°	176.5	114.9	2.2	180°	32.8	32.8	32.8

## UGR classificatie

Corrected Glare Ratings for a Total Lamp Flux of 1800lm

Room Dimensions	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
		Viewed Crosswise					Viewed Endwise				
X = 2H Y = 2H		16.0	17.4	16.6	18.1	18.6	14.7	16.2	15.3	16.8	17.4
Y = 3H		18.1	19.4	18.7	20.0	20.6	16.0	17.3	16.6	17.9	18.5
Y = 4H		19.1	20.3	19.7	21.0	21.6	16.4	17.7	17.1	18.3	19.0
Y = 6H		20.1	21.3	20.8	21.9	22.6	16.7	17.9	17.4	18.6	19.2
Y = 8H		20.6	21.7	21.2	22.4	23.0	16.8	17.9	17.4	18.6	19.2
Y = 12H		21.0	22.1	21.7	22.8	23.5	16.8	17.9	17.5	18.6	19.2
X = 4H Y = 2H		16.5	17.7	17.1	18.4	19.0	15.5	16.8	16.2	17.4	18.0
Y = 3H		18.8	19.9	19.5	20.6	21.2	17.0	18.1	17.7	18.8	19.4
Y = 4H		20.0	21.0	20.7	21.7	22.4	17.6	18.6	18.3	19.3	20.0
Y = 6H		21.2	22.1	21.9	22.8	23.5	18.1	19.0	18.8	19.7	20.4
Y = 8H		21.8	22.6	22.5	23.4	24.1	18.2	19.0	18.9	19.8	20.5
Y = 12H		22.4	23.1	23.1	23.9	24.6	18.2	19.0	19.0	19.8	20.5
X = 8H Y = 4H		20.3	21.1	21.0	21.9	22.5	18.3	19.1	19.0	19.9	20.6
Y = 6H		21.7	22.5	22.5	23.2	23.9	19.0	19.7	19.8	20.5	21.2
Y = 8H		22.5	23.1	23.2	23.9	24.6	19.3	19.9	20.0	20.7	21.4
Y = 12H		23.2	23.8	24.0	24.6	25.4	19.5	20.0	20.2	20.8	21.6
X = 12H Y = 4H		20.3	21.1	21.0	21.8	22.5	18.4	19.2	19.2	19.9	20.7
Y = 6H		21.8	22.5	22.6	23.2	24.0	19.3	19.9	20.1	20.7	21.5
Y = 8H		22.6	23.2	23.4	24.0	24.8	19.7	20.3	20.5	21.0	21.8
		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			

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## 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	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 (%)									
	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	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

