

US01I1/LEDN35S

recessed luminaire • square



application : Office, Healthcare, Education, Horeca, Retail, Leisure

housing: lacquered sheet steel with closed lamp shielding

light source : LED LP • 4000 K

optics : Softlight • wide-angle

UGR classification : <=19

luminous flux: 3550 lm

luminous efficacy : 137 lm/W

LLMF: 97% @ 50khrs (Tq=25°C)



Mechanical properties

dimensions : 595 mm x 595 mm x 120 mm

cut-out size : 580 mm x 580 mm

ceiling modulation : M600

colour: RAL9210-white

type : individual luminaire

IP: IP20

Luminance

luminous flux : 3550 lm

luminous efficacy : 137 lm/W

luminance @ 65° : 3000 cd/m²

UGR classification: <=19

luminous area : 0.33 m²

Electrical properties

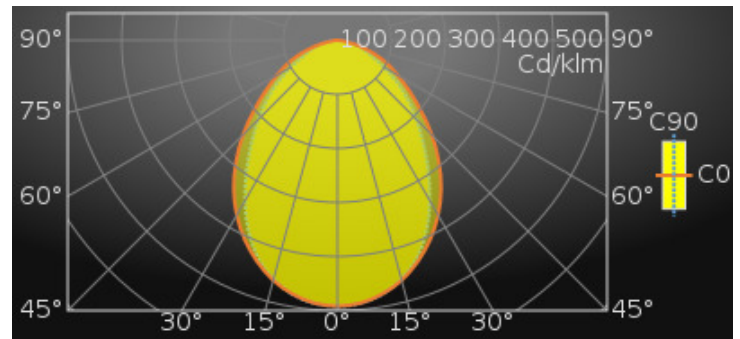
driver: not dimmable

power : 26 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 0 UNLIMITED



Average Luminances (Cd/m²) for 3550lm

Gamma	C0	C30	C45	C60	C90
45°	3753	3630	3432	3273	3154
50°	3367	3212	2955	2816	2843
55°	3035	2802	2478	2422	2522
60°	2766	2448	2179	2214	2123
65°	2565	2218	2076	2028	1799
70°	2215	2034	2016	1804	1654
75°	1774	1728	1817	1700	1606
80°	1138	1400	1464	1532	1411
85°	540	617	687	944	878

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Classifications

CIE: 583 / 860 / 975 / 1000 / 1000

CIE FLUXCODE : 0.58 / 0.86 / 0.97 / 1.00 / 1.00

BZ: BZ3

CAE: Symmetrical

DIN: A50 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.62

UTE: 1.00 D + 0.00 T

Luminous intensities in cd

Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	99	2
20	99	4
30	98	6
40	98	8
50	97	10
60	96	12

Intensity for 3550lm

Gamma	C0	C45	C90
0°	1746.0	1746.0	1746.0
5°	1732.8	1733.2	1734.1
10°	1693.1	1698.8	1694.7
15°	1632.4	1631.9	1624.8
20°	1545.9	1536.6	1524.8
25°	1443.6	1420.3	1385.0
30°	1325.3	1281.8	1216.9
35°	1191.0	1128.0	1041.4
40°	1036.4	971.2	878.5
45°	877.4	802.3	737.4
50°	715.6	628.0	604.3
55°	575.6	469.9	478.2
60°	457.3	360.2	351.0
65°	358.4	290.1	251.3
70°	250.4	228.0	187.1
75°	151.8	155.5	137.4
80°	65.3	84.1	81.0
85°	15.6	19.8	25.3
90°	0.2	0.2	0.2

UGR classification

Corrected Glare Ratings for a Total Lamp Flux of 3550lm (S = 0.25H)

Ceiling Walls Floor	Room Reflection Factors (%)									
	70	70	50	50	30	70	70	50	50	30
	50	30	50	30	30	50	30	50	30	30
	20	20	20	20	20	20	20	20	20	20
Room Dimensions	Viewed Crosswise					Viewed Endwise				
X = 2H Y = 2H	16.1	17.7	16.4	18.0	18.3	14.8	16.5	15.1	16.7	17.0
Y = 3H	17.3	18.8	17.6	19.1	19.4	15.7	17.2	16.0	17.5	17.8
Y = 4H	17.6	19.1	18.0	19.4	19.7	16.1	17.5	16.4	17.8	18.1
Y = 6H	17.8	19.1	18.1	19.4	19.8	16.4	17.7	16.8	18.1	18.4
Y = 8H	17.8	19.1	18.2	19.4	19.7	16.5	17.8	16.9	18.1	18.4
Y = 12H	17.8	19.0	18.1	19.3	19.7	16.5	17.7	16.9	18.1	18.4
X = 4H Y = 2H	16.3	17.8	16.7	18.1	18.4	15.3	16.7	15.6	17.0	17.3
Y = 3H	17.7	19.0	18.1	19.3	19.7	16.4	17.7	16.8	18.0	18.4
Y = 4H	18.2	19.3	18.6	19.7	20.1	17.0	18.1	17.4	18.4	18.8
Y = 6H	18.5	19.5	18.9	19.9	20.3	17.4	18.4	17.8	18.8	19.2
Y = 8H	18.5	19.4	19.0	19.8	20.3	17.5	18.5	18.0	18.9	19.3
Y = 12H	18.5	19.4	19.0	19.8	20.2	17.6	18.4	18.0	18.8	19.3
X = 8H Y = 4H	18.4	19.3	18.8	19.7	20.1	17.3	18.2	17.7	18.6	19.0
Y = 6H	18.8	19.5	19.2	19.9	20.4	17.8	18.6	18.3	19.0	19.5
Y = 8H	18.8	19.5	19.3	19.9	20.4	18.0	18.7	18.5	19.1	19.6
Y = 12H	18.8	19.4	19.3	19.9	20.4	18.1	18.7	18.6	19.2	19.7
X = 12H Y = 4H	18.4	19.2	18.8	19.6	20.1	17.3	18.1	17.7	18.5	19.0
Y = 6H	18.8	19.4	19.3	19.9	20.4	17.9	18.5	18.4	19.0	19.5
Y = 8H	18.9	19.4	19.4	19.9	20.4	18.1	18.7	18.6	19.1	19.7
UGR Variations with Observer Position for Luminaire Spacings S										
S = 1.0H	+0.3		-0.3		+0.2		-0.3			
S = 1.5H	+0.3		-0.7		+0.3		-0.6			
S = 2.0H	+0.8		-1.0		+0.8		-1.1			

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Colour properties

Correlated Colour Temperature : 4000

Ra: 80

Efficiency

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	105	103	101	99	97	95	95	93	92	87
2	93	88	85	88	84	81	84	81	79	74
3	83	77	72	78	73	70	76	71	68	64
4	74	67	62	70	65	61	68	63	60	56
5	67	60	54	64	58	53	62	57	53	50
6	61	54	48	58	52	47	57	51	47	44
7	56	48	43	54	47	42	52	46	42	40
8	52	44	39	49	43	38	48	42	38	36
9	48	40	35	46	39	35	45	39	35	33
10	44	37	32	43	36	32	42	36	32	30

Utilisation Factors according to LiTG (%)

	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	50	30	50	30	50	30	30	0
Floor	30	30	10	10	30	30	10	10	10	0
k = 0.60	54	46	51	44	52	45	50	44	43	37
0.80	65	56	61	54	62	55	59	53	53	46
1.00	74	65	68	62	70	63	66	60	60	54
1.25	83	75	76	70	78	72	74	69	68	62
1.50	90	81	81	76	84	78	79	74	73	67
2.00	98	90	87	82	91	85	84	80	79	74
2.50	104	97	92	87	96	91	89	85	84	79
3.00	108	103	95	91	100	96	92	89	88	83
4.00	113	108	98	95	103	100	95	92	91	86
5.00	117	112	100	98	106	103	97	95	93	89

Available accessories

US01H010/600 Mounting frame for plaster-board, wooden, ... ceiling

Dimensional drawing

