

# US3140/LEDW35S



**recessed luminaire • linear**

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

**housing:** lacquered sheet steel

**light source :** LED LP • 3000 K

**optics :** Softlight • closed lamp shielding • wide-angle

**UGR classification :** <=22

**luminous flux:** 3550 lm

**luminous efficacy :** 104 lm/W

**LLMF:** 97% @ 50khrs (Tq=25°C)

## Product information

### Mechanical properties

**dimensions :** 1195 mm x 295 mm x 95 mm

**cut-out size :** 1180 mm x 280 mm

**ceiling modulation :** M300

**colour:** specular white

**type :** individual luminaire

**IP:** IP20

**IK:** IK03

### Electrical properties

**driver:** not dimmable

**power :** 34 W

**voltage :** 220-240V

**frequency :** 50-60Hz AC

**photobiological safety :** EN 62471: RISK GROUP 0  
UNLIMITED

## Luminance

luminous flux : 3550 lm

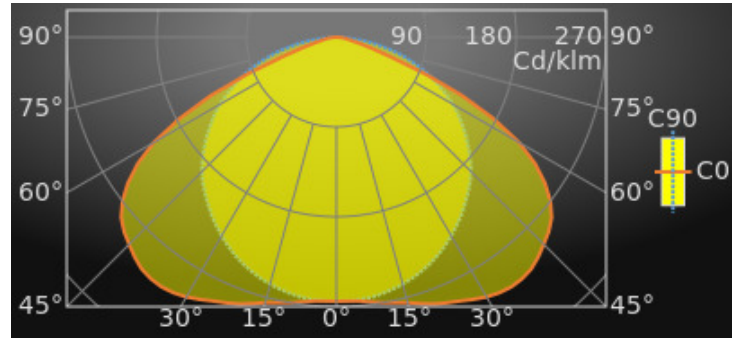
luminous efficacy : 104 lm/W

UGR classification  $\leq 22$

luminous area : 0.32 m<sup>2</sup>

Average Luminances (Cd/m<sup>2</sup>) for 3550lm

Gamma	C0	C30	C45	C60	C90
45°	4559	4358	4075	3606	2960
50°	4805	4555	4286	3839	2951
55°	4884	4755	4494	4069	2955
60°	4638	4767	4642	4254	2957
65°	3622	4246	4553	4392	2920
70°	1856	2725	3799	4329	2878
75°	999	1259	1924	3497	2773
80°	693	761	926	1467	2562
85°	616	622	641	674	1963



## Classifications

CIE: 416 / 781 / 969 / 1000 / 1000

CIE FLUXCODE : 0.42 / 0.78 / 0.97 / 1.00 / 1.00

BZ: BZ10/1.25/BZ4/1.5/BZ10/2.5/BZ5

CAE: CAE 1/75°/CAE 2

DIN: A40 (Nach Arbeitsblatt 7)

DIN\_U: Phi u = 1.00

DIN\_SU: Phi su = 0.52

UTE: 1.00 E + 0.00 T



## Luminous intensities in cd

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	97	12

Intensity for 3550lm

Gamma	C0	C45	C90
0°	939.2	939.2	939.2
5°	942.5	941.3	937.8
10°	958.9	943.1	927.3
15°	977.6	943.5	909.4
20°	1010.1	943.5	885.4
25°	1036.1	954.1	854.4
30°	1066.9	954.1	816.0
35°	1084.3	953.3	772.7
40°	1076.5	948.4	726.2
45°	1041.6	931.1	676.4
50°	998.1	890.1	612.9
55°	905.2	832.9	547.7
60°	749.3	750.0	477.8
65°	494.6	621.7	398.7
70°	205.1	419.8	318.0
75°	83.5	160.9	231.9
80°	38.9	52.0	143.7
85°	17.3	18.0	55.3
90°	0.0	0.0	0.0

## 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	18.8	20.6	19.1	20.9	21.2	17.1	19.0	17.4	19.2	19.5
Y = 3H	19.4	21.1	19.8	21.4	21.7	18.9	20.6	19.2	20.9	21.2
Y = 4H	19.4	21.0	19.8	21.3	21.7	19.6	21.2	20.0	21.5	21.9
Y = 6H	19.4	20.9	19.7	21.2	21.5	20.1	21.6	20.4	21.9	22.2
Y = 8H	19.3	20.8	19.7	21.1	21.5	20.2	21.6	20.6	22.0	22.3
Y = 12H	19.3	20.7	19.7	21.0	21.4	20.2	21.6	20.6	22.0	22.3
X = 4H Y = 2H	19.4	21.0	19.8	21.4	21.7	18.3	19.9	18.6	20.2	20.5
Y = 3H	20.2	21.6	20.6	21.9	22.3	20.2	21.6	20.6	22.0	22.3
Y = 4H	20.2	21.5	20.6	21.8	22.2	21.1	22.3	21.5	22.7	23.1
Y = 6H	20.2	21.3	20.6	21.7	22.1	21.7	22.8	22.1	23.2	23.6
Y = 8H	20.2	21.2	20.6	21.6	22.0	21.8	22.8	22.3	23.3	23.7
Y = 12H	20.2	21.1	20.6	21.5	22.0	21.9	22.8	22.3	23.2	23.7
X = 8H Y = 4H	20.4	21.4	20.8	21.8	22.2	21.2	22.2	21.6	22.6	23.0
Y = 6H	20.4	21.2	20.9	21.7	22.2	21.8	22.7	22.3	23.1	23.6
Y = 8H	20.4	21.1	20.9	21.6	22.1	22.0	22.8	22.5	23.2	23.7
Y = 12H	20.4	21.0	20.9	21.5	22.0	22.1	22.7	22.6	23.2	23.7
X = 12H Y = 4H	20.4	21.3	20.8	21.7	22.2	21.1	22.1	21.6	22.5	23.0
Y = 6H	20.4	21.1	20.9	21.6	22.1	21.8	22.5	22.3	23.0	23.5
Y = 8H	20.4	21.1	20.9	21.5	22.1	22.0	22.6	22.5	23.1	23.6
<b>UGR Variations with Observer Position for Luminaire Spacings S</b>										
S = 1.0H	+0.1		-0.1		+0.1		-0.1			
S = 1.5H	+0.6		-0.7		+0.4		-0.5			
S = 2.0H	+1.5		-2.4		+1.0		-1.4			



## Colour properties

Correlated Colour Temperature : 3000

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	103	100	97	96	94	92	92	90	89	84
2	88	83	78	83	78	75	80	76	73	69
3	76	69	64	72	66	62	69	64	61	57
4	67	59	53	63	57	52	61	55	51	48
5	59	51	45	56	49	44	54	48	43	40
6	53	45	39	50	43	38	49	42	37	35
7	48	39	33	45	38	33	44	37	33	30
8	44	35	29	41	34	29	40	34	29	27
9	40	32	26	38	31	26	37	30	26	24
10	37	29	23	35	28	23	34	28	23	21

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	44	35	42	34	42	34	40	33	32	26
0.80	56	46	52	44	52	44	50	43	42	35
1.00	65	55	60	52	61	53	58	51	50	43
1.25	75	65	69	61	70	62	66	60	59	52
1.50	82	73	75	68	76	69	72	66	65	58
2.00	92	83	82	76	85	78	79	74	72	66
2.50	99	91	87	82	91	85	84	80	78	73
3.00	104	98	91	87	96	91	88	85	83	78
4.00	110	104	95	91	100	96	92	89	87	82
5.00	114	109	98	95	104	100	94	92	90	86

## Available accessories

US01H010/1200 *Mountingframe for plaster-board, wooden,... ceiling*



## Dimensional drawing

