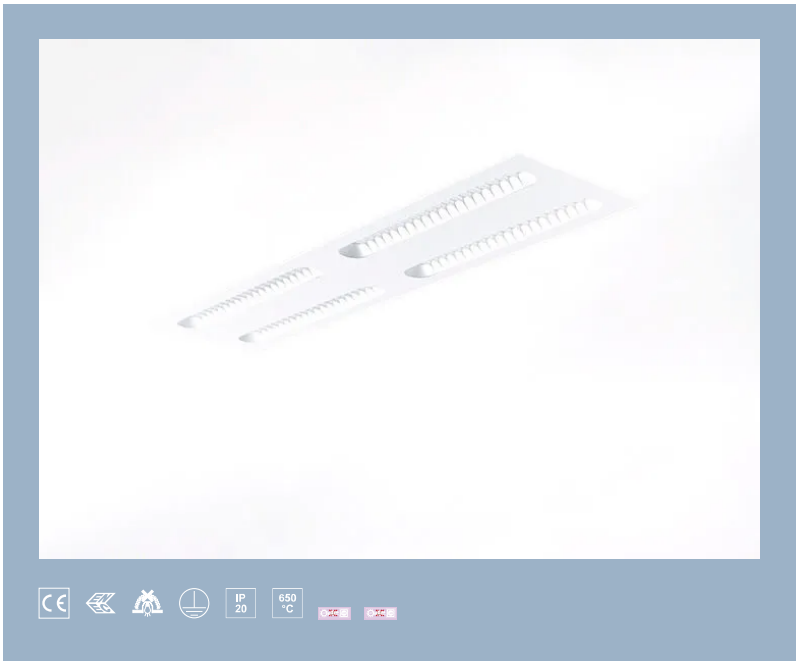
U3357/LEDW430S



recessed luminaire • linear

Application : Education ? Classrooms

housing: lacquered sheet steel

light source : LED • 3000 K

optics : Shielded lens • white polycarbonate (PC) • very wide-angle

UGR classification : <=19

luminous flux: 2850 lm

luminous efficacy : 143 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 1246 mm x 308 mm x 58 mm

cut-out size : 1246 mm x 308 mm x 70 mm

shape : module 625 linear

colour: RAL9003 - white

type : individual luminaire

IP: IP20

Electrical properties

driver: not dimmable

power : 20 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED

Luminance

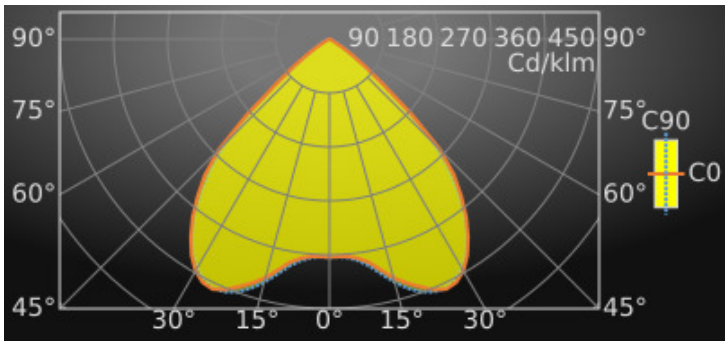
luminous flux : 2850 lm

luminous efficacy : 143 lm/W

luminance @ 65° = : 1500 cd/m²

UGR classification =: <=19

luminous area : 0.12 m²



Average Luminances (Cd/m²) for 2850lm

Gamma	C0	C30	C45	C60	C90
45°	8876	12737	14187	11996	8275
50°	4283	10287	12328	9340	4114
55°	1982	5214	8692	4344	1755
60°	604	2670	2773	2402	1115
65°	156	552	1022	1340	697
70°	2	40	224	467	384
75°	0	0	9	153	277
80°	0	0	0	6	209
85°	0	0	0	0	120

Classifications

CIE: 676 / 982 / 999 / 1000 / 1000

CIE FLUXCODE : 0.68 / 0.98 / 1.00 / 1.00 / 1.00

BZ: BZ2

CAE: Symmetrical

DIN: A50 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.69

UTE: 1.00 C + 0.00 T

Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	100	2
20	99	4
30	99	6
40	99	8
50	99	10
60	98	12

Luminous intensities in cd

Intensity for 2850lm

Gamma	C0	C45	C90
0°	1036.8	1036.8	1036.8
5°	1038.8	1040.4	1044.0
10°	1077.7	1071.7	1095.3
15°	1175.6	1148.6	1197.9
20°	1252.7	1269.5	1278.9
25°	1313.2	1357.0	1307.8
30°	1273.3	1404.6	1256.8
35°	1149.6	1409.5	1140.9
40°	975.2	1343.2	948.9
45°	745.6	1191.8	695.1
50°	327.1	941.4	314.2
55°	135.1	592.3	119.6
60°	35.9	164.7	66.2
65°	7.8	51.3	35.0
70°	0.1	9.1	15.6
75°	0.0	0.3	8.5
80°	0.0	0.0	4.3
85°	0.0	0.0	1.2
90°	0.0	0.0	0.0

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 2850lm (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	18.0	19.7	18.3	19.9	20.2	17.7	19.3	18.0	19.6	19.9
Y = 3H	17.8	19.3	18.2	19.6	19.9	17.5	19.0	17.9	19.3	19.6
Y = 4H	17.7	19.1	18.1	19.4	19.7	17.4	18.8	17.8	19.1	19.4
Y = 6H	17.7	18.9	18.0	19.2	19.6	17.4	18.6	17.7	18.9	19.3
Y = 8H	17.6	18.8	18.0	19.2	19.5	17.3	18.5	17.7	18.9	19.2
Y = 12H	17.6	18.7	18.0	19.1	19.4	17.3	18.4	17.7	18.8	19.1
X = 4H Y = 2H	17.9	19.3	18.3	19.6	19.9	17.6	19.0	18.0	19.3	19.6
Y = 3H	17.8	18.9	18.2	19.3	19.6	17.5	18.7	17.9	19.0	19.4
Y = 4H	17.7	18.7	18.1	19.1	19.5	17.5	18.5	17.9	18.8	19.2
Y = 6H	17.7	18.5	18.1	18.9	19.3	17.4	18.3	17.8	18.7	19.1
Y = 8H	17.6	18.4	18.1	18.8	19.2	17.4	18.2	17.8	18.6	19.0
Y = 12H	17.6	18.3	18.0	18.7	19.2	17.3	18.1	17.8	18.5	18.9
X = 8H Y = 4H	17.6	18.4	18.1	18.8	19.2	17.4	18.2	17.8	18.6	19.0
Y = 6H	17.6	18.2	18.0	18.7	19.1	17.3	18.0	17.8	18.4	18.9
Y = 8H	17.5	18.1	18.0	18.6	19.0	17.3	17.9	17.8	18.3	18.8
Y = 12H	17.5	18.0	18.0	18.5	19.0	17.3	17.8	17.7	18.2	18.8
X = 12H Y = 4H	17.6	18.3	18.0	18.7	19.2	17.3	18.1	17.8	18.5	18.9
Y = 6H	17.5	18.1	18.0	18.6	19.0	17.3	17.9	17.8	18.3	18.8
Y = 8H	17.5	18.0	18.0	18.5	19.0	17.3	17.8	17.7	18.2	18.8
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+2.4	-5.4				+2.2	-6.3			
S = 1.5H	+4.2	-18.0				+4.2	-10.9			
S = 2.0H	+4.9	-30.3				+4.6	-14.3			

Colour properties

Correlated Colour Temperature : 3000

Ra: CRI (Ra) 80

Efficiency

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	108	106	104	102	100	99	98	97	96	90
2	97	93	90	92	89	87	89	86	84	80
3	88	82	78	83	79	76	81	77	74	71
4	79	73	68	75	70	67	73	69	66	62
5	72	65	60	69	63	59	67	62	58	55
6	65	58	53	63	57	52	61	56	52	49
7	59	52	47	57	51	47	56	50	46	44
8	54	47	42	53	46	42	51	46	42	39
9	50	43	38	48	42	38	47	42	38	36
10	46	39	34	45	39	34	44	38	34	32

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	56	48	53	46	54	47	52	46	45	40
0.80	70	61	65	59	67	60	64	58	57	52
1.00	79	70	73	67	75	68	71	66	65	60
1.25	89	81	81	76	84	78	79	75	74	69
1.50	95	88	86	81	89	84	84	80	79	74
2.00	102	96	91	87	95	91	89	85	84	80
2.50	108	102	95	92	100	96	93	90	89	84
3.00	112	107	98	96	104	100	96	93	92	88
4.00	116	112	100	98	106	103	97	96	94	90
5.00	119	115	102	100	109	106	99	98	96	92

Dimensional drawing