E21/LED2N030S



surface-mounted luminaire • linear

Application : Harsh environments

housing: lacquered aluminium

light source : LED • 4000 K

optics : linear lens • polycarbonate (PC) • medium wide-angle

UGR classification : <=25

luminous flux: 2950 lm

luminous efficacy : 128 lm/W

LLMF: 97% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 620 mm x 80 mm x 135 mm

colour: RAL7035 - light grey

type : individual luminaire

IP: IP66, IP69K

IK: IK07

ambient temperature: -25°C - 35°C •

Electrical properties

driver: not dimmable

power : 23 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED

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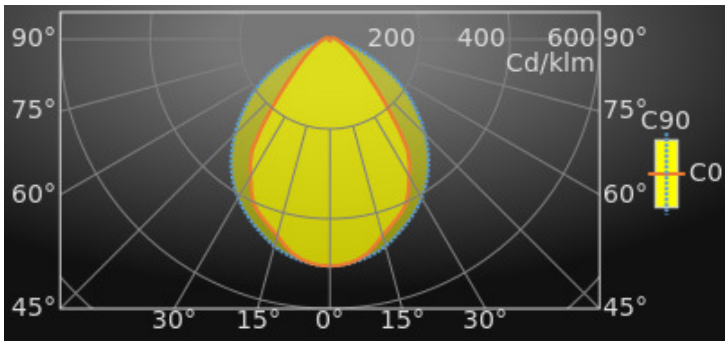
Luminance

luminous flux : 2950 lm

luminous efficacy : 128 lm/W

UGR classification =: <=25

luminous area : 0.03 m²



Average Luminances (Cd/m²) for 2950lm

Gamma	C0	C30	C45	C60	C90
45°	11607	15864	22737	28841	38567
50°	8368	10940	16317	24965	35988
55°	6440	8057	11556	19803	33100
60°	5059	6324	8536	14929	29125
65°	4247	5063	6647	10968	24056
70°	3507	4344	5487	8180	18751
75°	3073	3789	4610	6254	14013
80°	2876	3322	4061	4966	9813
85°	2753	3069	3627	4055	4761

Classifications

CIE: 607 / 867 / 954 / 983 / 1002

CIE FLUXCODE : 0.62 / 0.88 / 0.97 / 0.98 / 1.00

BZ: BZ2/1/BZ3/1.25/BZ2/1.5/BZ3

CAE: CAE 3/5°/CAE 2/55°/CAE 3

DIN: A50 (Nach Arbeitsblatt 7 und 8)

DIN_U: Phi u = 0.98

DIN_SU: Phi su = 0.64

UTE: 0.98 C + 0.02 T

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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

Luminous intensities in cd

Intensity for 2950lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	1489.6	1489.6	1489.6	90°	41.6	36.6	0.7
5°	1475.4	1471.5	1478.1	95°	35.1	26.9	0.0
10°	1427.2	1450.8	1451.6	100°	32.5	20.8	0.0
15°	1334.2	1382.3	1408.0	105°	28.4	15.7	0.0
20°	1263.6	1290.7	1344.8	110°	22.5	11.8	0.0
25°	1186.4	1223.5	1279.5	115°	17.5	8.9	0.0
30°	1039.6	1155.0	1204.3	120°	13.3	6.4	0.0
35°	888.3	1005.2	1114.3	125°	9.5	4.2	0.0
40°	594.7	879.5	1005.8	130°	6.6	2.3	0.0
45°	384.5	685.0	882.5	135°	4.3	0.1	0.0
50°	266.9	467.5	748.6	140°	2.2	0.0	0.0
55°	196.0	311.5	614.4	145°	0.0	0.0	0.0
60°	145.3	213.9	471.3	150°	0.0	0.0	0.0
65°	113.9	152.6	329.0	155°	0.0	0.0	0.1
70°	86.6	113.6	207.5	160°	0.0	0.0	0.1
75°	68.7	84.2	117.4	165°	0.1	0.0	0.1
80°	57.2	63.8	55.1	170°	0.3	0.2	0.1
85°	47.5	47.3	13.4	175°	0.8	0.7	0.6
90°	41.6	36.6	0.7	180°	0.7	0.7	0.7

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 2950lm (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	18.3	19.9	18.6	20.2	20.5	23.9	25.5	24.2	25.8	26.1
Y = 3H	18.6	20.1	19.0	20.4	20.7	24.7	26.2	25.1	26.5	26.9
Y = 4H	18.8	20.2	19.2	20.5	20.8	25.0	26.4	25.4	26.7	27.0
Y = 6H	19.0	20.2	19.4	20.6	21.0	25.1	26.4	25.5	26.7	27.1
Y = 8H	19.1	20.3	19.5	20.7	21.0	25.1	26.3	25.5	26.7	27.1
Y = 12H	19.2	20.4	19.6	20.7	21.1	25.1	26.3	25.5	26.6	27.0
X = 4H Y = 2H	18.8	20.2	19.2	20.6	20.9	23.7	25.1	24.1	25.5	25.8
Y = 3H	19.3	20.5	19.8	20.9	21.3	24.8	25.9	25.2	26.3	26.7
Y = 4H	19.6	20.7	20.0	21.0	21.4	25.1	26.1	25.5	26.5	26.9
Y = 6H	19.9	20.8	20.4	21.2	21.7	25.3	26.2	25.8	26.6	27.1
Y = 8H	20.1	20.9	20.5	21.4	21.8	25.3	26.2	25.8	26.6	27.1
Y = 12H	20.2	21.0	20.7	21.5	21.9	25.3	26.1	25.8	26.6	27.0
X = 8H Y = 4H	19.9	20.7	20.3	21.2	21.6	25.1	25.9	25.5	26.3	26.8
Y = 6H	20.3	21.0	20.8	21.5	22.0	25.3	26.0	25.8	26.5	27.0
Y = 8H	20.5	21.2	21.1	21.7	22.2	25.4	26.0	25.9	26.5	27.0
Y = 12H	20.8	21.4	21.3	21.9	22.4	25.4	26.0	26.0	26.5	27.0
X = 12H Y = 4H	19.9	20.7	20.4	21.1	21.6	25.0	25.8	25.5	26.3	26.7
Y = 6H	20.4	21.0	20.9	21.5	22.0	25.3	25.9	25.8	26.4	26.9
Y = 8H	20.7	21.2	21.2	21.7	22.3	25.4	26.0	25.9	26.5	27.0

	UGR Variations with Observer Position for Luminaire Spacings S			
S = 1.0H	+1.0	-1.0	+0.2	-0.3
S = 1.5H	+1.4	-1.5	+0.7	-0.9
S = 2.0H	+2.2	-1.9	+1.9	-2.0

Colour properties

Correlated Colour Temperature : 4000

Ra: CRI (Ra) 80

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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	105	103	101	98	96	95	94	93	91	86
2	94	89	86	88	84	82	84	81	79	74
3	84	78	73	79	74	71	76	72	69	65
4	75	69	64	71	66	62	69	64	61	57
5	68	61	56	65	59	55	63	58	54	51
6	62	55	50	59	53	49	58	52	48	45
7	57	50	45	55	48	44	53	47	43	41
8	53	45	40	50	44	40	49	43	39	37
9	49	41	37	47	40	36	46	40	36	34
10	45	38	33	44	37	33	42	37	33	31

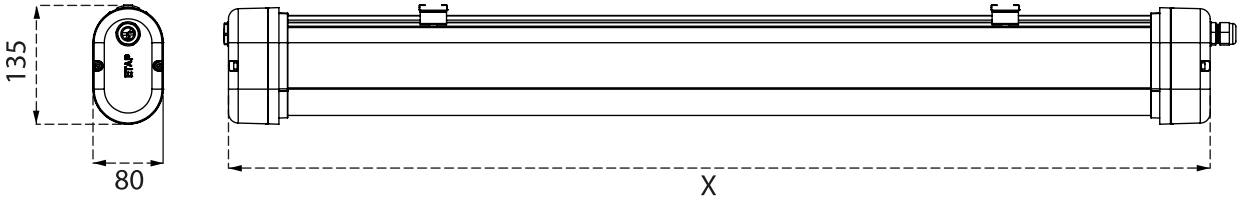
Utilisation Factors according to LiTG (%)

	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	55	47	52	46	53	46	51	45	44	38
0.80	67	58	62	56	63	56	60	55	54	48
1.00	75	66	70	63	71	64	67	62	61	55
1.25	85	76	77	72	79	73	75	70	69	63
1.50	91	83	82	77	85	79	79	75	74	68
2.00	98	91	88	83	91	86	85	81	79	74
2.50	104	98	92	88	96	91	89	85	84	79
3.00	109	103	95	92	100	96	92	89	87	83
4.00	113	108	98	95	103	99	94	92	90	85
5.00	117	112	100	98	106	103	96	94	92	88

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Dimensional drawing



E2*/LED2*	620 mm
E2*/LED4*	1120 mm
E2*/LED6*	1620 mm

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