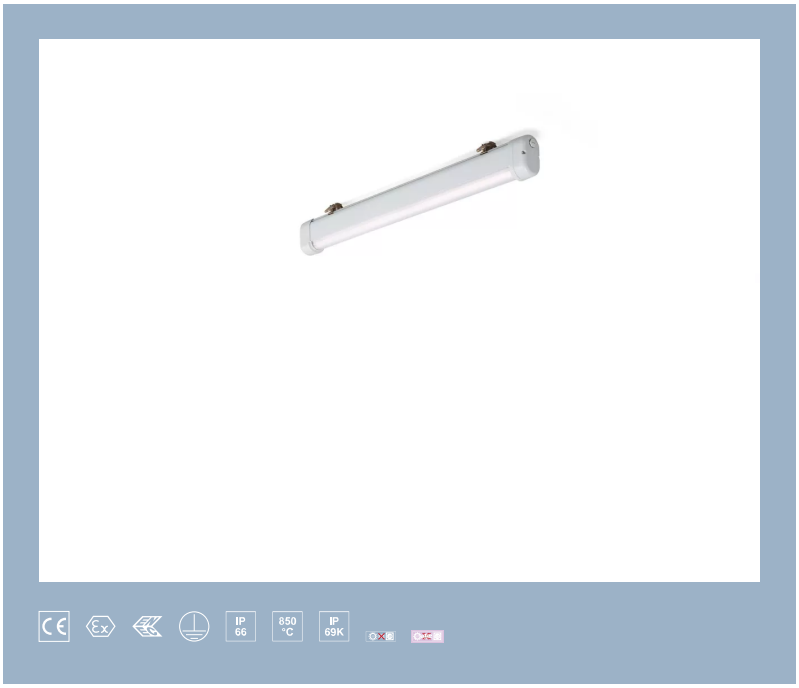
E21/LED5N075D5-ATEX1



surface-mounted luminaire • linear

Application : ATEX environments

light source : LED • 4000 K

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

UGR classification : <=28

luminous flux: 8300 lm

luminous efficacy : 132 lm/W

LLMF: 96% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 1370 mm x 80 mm x 135 mm

colour: RAL7035 - light grey

type : individual luminaire

IP: IP66, IP69K

ambient temperature: -20°C - 40°C •

ATEX : II 2D Ex tb IIIC T80°C Db, II 3G Ex ec IIC T4 Gc

Electrical properties

driver: DALI dimmable

power : 63 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED

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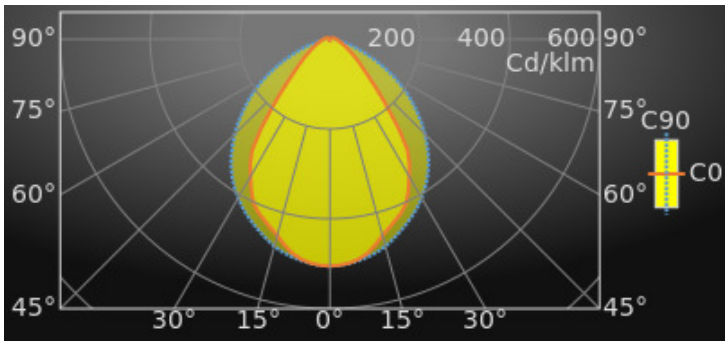
Luminance

luminous flux : 8300 lm

luminous efficacy : 132 lm/W

UGR classification =: <=28

luminous area : 0.08 m²



Average Luminances (Cd/m²) for 8300lm

Gamma	C0	C30	C45	C60	C90
45°	12793	17484	25060	31787	42506
50°	9222	12058	17984	27515	39664
55°	7098	8880	12736	21826	36482
60°	5576	6970	9408	16454	32100
65°	4681	5580	7326	12089	26513
70°	3865	4788	6048	9016	20667
75°	3387	4176	5080	6893	15445
80°	3170	3661	4476	5474	10815
85°	3034	3382	3998	4469	5247

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	1
20	98	2
30	98	3
40	97	4
50	96	5
60	96	6

Luminous intensities in cd

Intensity for 8300lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	4191.0	4191.0	4191.0	90°	117.0	103.1	1.9
5°	4151.1	4140.1	4158.6	95°	98.8	75.6	0.1
10°	4015.6	4081.8	4084.1	100°	91.4	58.6	0.0
15°	3754.0	3889.2	3961.5	105°	79.9	44.1	0.1
20°	3555.3	3631.5	3783.7	110°	63.4	33.3	0.0
25°	3337.9	3442.3	3600.0	115°	49.3	25.2	0.0
30°	2925.0	3249.7	3388.4	120°	37.5	18.0	0.0
35°	2499.3	2828.1	3135.2	125°	26.8	11.8	0.0
40°	1673.2	2474.5	2829.8	130°	18.5	6.4	0.0
45°	1081.9	1927.4	2483.0	135°	12.1	0.4	0.0
50°	751.1	1315.3	2106.2	140°	6.2	0.0	0.0
55°	551.4	876.4	1728.6	145°	0.1	0.0	0.1
60°	408.9	601.7	1325.9	150°	0.0	0.0	0.1
65°	320.3	429.4	925.6	155°	0.0	0.0	0.2
70°	243.6	319.5	583.9	160°	0.0	0.0	0.2
75°	193.4	237.0	330.2	165°	0.2	0.0	0.2
80°	160.9	179.5	155.1	170°	0.9	0.6	0.4
85°	133.6	133.0	37.8	175°	2.2	1.9	1.6
90°	117.0	103.1	1.9	180°	2.0	2.0	2.0

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 8300lm (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	18.6	20.2	18.9	20.5	20.8	24.2	25.8	24.5	26.1	26.4
Y = 3H	19.0	20.4	19.3	20.7	21.1	25.1	26.6	25.5	26.9	27.2
Y = 4H	19.1	20.5	19.5	20.8	21.2	25.3	26.7	25.7	27.0	27.4
Y = 6H	19.3	20.6	19.7	20.9	21.3	25.4	26.7	25.8	27.1	27.4
Y = 8H	19.4	20.6	19.8	21.0	21.4	25.4	26.7	25.8	27.0	27.4
Y = 12H	19.5	20.7	19.9	21.1	21.4	25.4	26.6	25.8	27.0	27.3
X = 4H Y = 2H	19.2	20.6	19.6	20.9	21.2	24.1	25.5	24.5	25.8	26.1
Y = 3H	19.7	20.9	20.1	21.2	21.6	25.1	26.3	25.5	26.6	27.0
Y = 4H	19.9	21.0	20.4	21.4	21.8	25.4	26.5	25.9	26.9	27.3
Y = 6H	20.2	21.2	20.7	21.6	22.0	25.6	26.6	26.1	27.0	27.4
Y = 8H	20.4	21.3	20.9	21.7	22.1	25.7	26.5	26.1	27.0	27.4
Y = 12H	20.6	21.3	21.0	21.8	22.3	25.7	26.5	26.2	26.9	27.4
X = 8H Y = 4H	20.2	21.1	20.7	21.5	22.0	25.4	26.2	25.9	26.7	27.1
Y = 6H	20.6	21.4	21.1	21.8	22.3	25.7	26.4	26.2	26.9	27.3
Y = 8H	20.9	21.5	21.4	22.0	22.5	25.7	26.4	26.3	26.9	27.4
Y = 12H	21.1	21.7	21.7	22.2	22.7	25.8	26.3	26.3	26.8	27.4
X = 12H Y = 4H	20.2	21.0	20.7	21.5	22.0	25.4	26.2	25.8	26.6	27.1
Y = 6H	20.7	21.4	21.2	21.8	22.4	25.7	26.3	26.2	26.8	27.3
Y = 8H	21.0	21.6	21.5	22.1	22.6	25.8	26.3	26.3	26.8	27.4

	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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