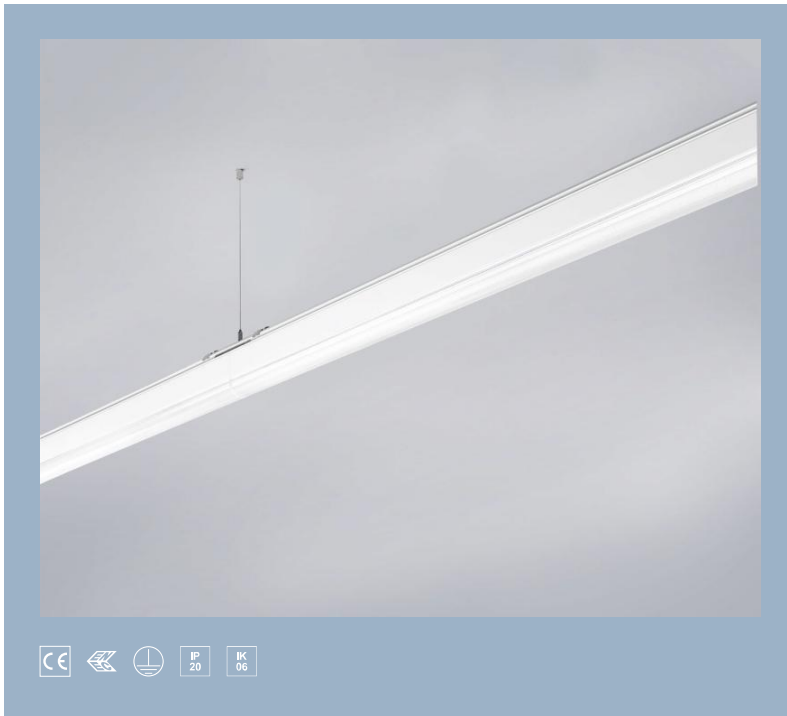


E4001/LED2W060DE



industrial luminaire • linear

application : Industry, Logistics

housing: lacquered aluminium

light source : LED LP • 3000 K

optics : DUAL?LENS • polycarbonate (PC) • narrow-angle

UGR classification : <=22

luminous flux: 6150 lm

luminous efficacy : 116 lm/W

LLMF: 95% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 2000 mm x 60 mm x 135 mm

colour: RAL9016 - traffic white (textured)

type : in-line mounting: intermediate luminaire

IP: IP20

IK: IK06

Electrical properties

driver: DALI dimmable, with daylight sensor ELS

power : 53 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1
UNLIMITED

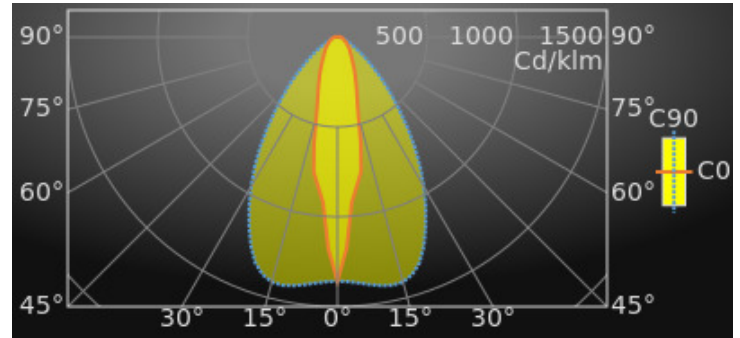
Luminance

luminous flux : 6150 lm

luminous efficacy : 116 lm/W

UGR classification ≤ 22

luminous area : 0.12 m²



Average Luminances (Cd/m²) for 6150lm

Gamma	C0	C30	C45	C60	C90
45°	4501	5150	6457	9643	27745
50°	3865	4322	5235	7453	20123
55°	3353	3680	4244	5706	14720
60°	2945	3205	3423	4428	10766
65°	2595	2815	2809	3578	8262
70°	2335	2470	2363	3000	6855
75°	2137	2172	2039	2514	6620
80°	1996	1915	1737	2030	6270
85°	1886	1673	1422	1606	5400

Classifications

CIE: 710 / 894 / 961 / 989 / 1000

CIE FLUXCODE : 0.72 / 0.90 / 0.97 / 0.99 / 1.00

BZ: BZ1/0.8/BZ2

CAE: CAE 1/15°/CAE 2/25°/CAE 4/75°/CAE 3

DIN: A60 (Nach Arbeitsblatt 7 und 8)

DIN_U: Phi u = 0.99

DIN_SU: Phi su = 0.72

UTE: 0.99 B + 0.01 T

Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	99	2
20	98	4
30	98	6
40	97	8
50	96	10
60	95	12

Luminous intensities in cd

Intensity for 6150lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	8353.1	8353.1	8353.1	90°	109.0	50.5	2.3
5°	5678.2	6697.0	8443.9	95°	89.0	31.1	0.0
10°	4668.7	5002.5	8634.2	100°	69.0	15.6	0.0
15°	2745.9	4164.3	8679.2	105°	49.5	5.5	0.0
20°	1922.5	2824.7	8213.6	110°	31.2	1.3	0.0
25°	1443.9	2079.4	7149.7	115°	16.1	0.3	0.0
30°	1078.0	1599.0	5906.5	120°	5.2	0.0	0.0
35°	845.6	1241.4	4612.0	125°	1.0	0.0	0.0
40°	691.8	959.2	3351.8	130°	0.3	0.0	0.0
45°	572.8	741.6	2354.3	135°	0.0	0.0	0.0
50°	475.7	574.0	1552.2	140°	0.0	0.0	0.0
55°	395.6	439.6	1013.2	145°	0.0	0.0	0.0
60°	329.7	331.2	646.0	150°	0.0	0.0	0.0
65°	272.7	250.5	419.0	155°	0.0	0.0	0.0
70°	227.5	191.2	281.3	160°	0.0	0.0	0.0
75°	190.2	146.9	205.6	165°	0.0	0.0	0.0
80°	159.5	108.8	130.7	170°	0.0	0.0	0.0
85°	132.5	75.0	56.5	175°	0.0	0.0	0.0
90°	109.0	50.5	2.3	180°	0.0	0.0	0.0

UGR classification

Corrected Glare Ratings for a Total Lamp Flux of 6150lm (S = 0.25H)

Ceiling Walls Floor	Room Reflection Factors (%)									
	70	70	50	50	30	70	70	50	50	30
Room Dimensions	Viewed Crosswise					Viewed Endwise				
X = 2H Y = 2H	14.0	15.4	14.3	15.7	16.0	19.8	21.3	20.1	21.5	21.8
Y = 3H	15.1	16.4	15.5	16.7	17.0	20.4	21.7	20.7	22.0	22.3
Y = 4H	15.7	16.9	16.0	17.2	17.5	20.6	21.9	21.0	22.2	22.5
Y = 6H	16.2	17.3	16.6	17.7	18.0	20.9	22.0	21.3	22.4	22.7
Y = 8H	16.5	17.6	16.8	17.9	18.2	21.0	22.1	21.4	22.4	22.8
Y = 12H	16.7	17.8	17.1	18.1	18.5	21.0	22.1	21.4	22.4	22.8
X = 4H Y = 2H	14.5	15.8	14.9	16.1	16.4	19.7	20.9	20.1	21.3	21.6
Y = 3H	15.8	16.9	16.2	17.2	17.6	20.4	21.4	20.8	21.8	22.1
Y = 4H	16.5	17.5	17.0	17.8	18.2	20.7	21.6	21.1	22.0	22.4
Y = 6H	17.2	18.1	17.7	18.5	18.9	21.1	21.9	21.5	22.3	22.7
Y = 8H	17.6	18.4	18.0	18.8	19.2	21.2	22.0	21.7	22.4	22.8
Y = 12H	17.9	18.6	18.4	19.1	19.5	21.3	22.0	21.8	22.5	22.9
X = 8H Y = 4H	16.8	17.5	17.2	17.9	18.4	20.7	21.5	21.2	21.9	22.3
Y = 6H	17.6	18.3	18.1	18.7	19.2	21.1	21.8	21.6	22.2	22.7
Y = 8H	18.1	18.7	18.6	19.1	19.6	21.3	21.9	21.8	22.4	22.9
Y = 12H	18.6	19.1	19.1	19.6	20.1	21.5	22.0	22.0	22.5	23.0
X = 12H Y = 4H	16.8	17.5	17.2	17.9	18.4	20.7	21.4	21.2	21.8	22.3
Y = 6H	17.7	18.2	18.2	18.7	19.2	21.1	21.7	21.6	22.2	22.7
Y = 8H	18.2	18.7	18.7	19.2	19.7	21.3	21.8	21.8	22.3	22.9
UGR Variations with Observer Position for Luminaire Spacings S										
S = 1.0H	+0.3		-0.3		+1.0		-0.9			
S = 1.5H	+0.4		-0.6		+2.6		-1.7			
S = 2.0H	+0.4		-0.9		+4.0		-2.4			



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	107	105	103	100	98	97	96	95	94	88
2	97	93	90	91	88	86	88	85	83	78
3	88	83	79	83	79	76	81	77	75	71
4	81	75	71	77	72	69	75	70	67	64
5	75	68	64	71	66	62	69	65	61	58
6	69	63	58	66	61	57	65	60	56	54
7	64	58	53	62	56	52	61	56	52	50
8	60	54	49	58	52	49	57	52	48	46
9	57	50	46	55	49	45	54	49	45	43
10	53	47	43	52	46	42	51	46	42	40

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	65	58	62	56	63	57	61	56	55	50
0.80	75	67	70	64	72	65	68	63	63	58
1.00	82	75	76	71	78	72	74	70	69	64
1.25	91	83	83	78	86	80	81	77	76	71
1.50	96	89	87	82	90	85	84	81	79	75
2.00	103	96	92	88	95	91	89	86	84	80
2.50	107	102	95	91	99	95	92	89	88	83
3.00	111	106	97	95	103	99	94	92	91	86
4.00	115	110	99	97	105	102	96	94	93	88
5.00	118	114	101	99	107	105	98	96	94	90

Available accessories

E7H301 Connector (1 per line), 5 or 7 pole, per piece

E4H1000 Line end piece, per piece

E4H111 Single mounting bracket for ceiling mounting

E4H112 Double mounting bracket for ceiling mounting

E4H121 Single mounting bracket for threaded rod

E4H122 Double mounting bracket for threaded rod

E4H131 Single mounting bracket for chain

E4H141 Single mounting bracket for steel wire

E4H142 Double mounting bracket for steel wire

E4H132 Double mounting bracket for chain

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