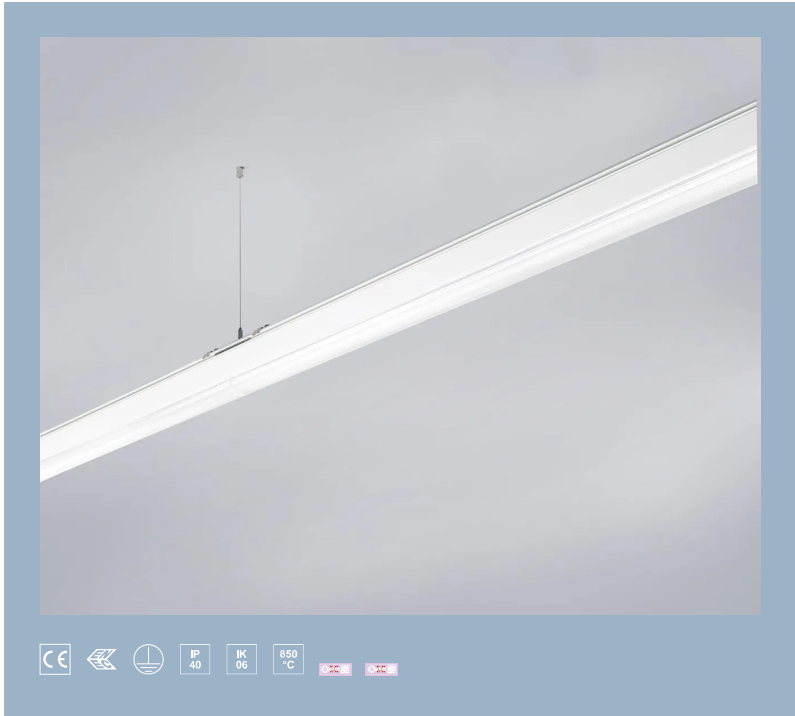


E4011/LED2W080S



industrial luminaire • linear

Application : Industry ? Production area, Industry ? Warehouse

housing: lacquered aluminium

light source : LED • 3000 K

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

UGR classification : <=25

luminous flux: 9750 lm

luminous efficacy : 127 lm/W

LLMF: 98% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 2000 mm x 60 mm x 135 mm

colour: RAL9016 - traffic white

type : in-line mounting: intermediate luminaire

IP: IP40

IK: IK06

Electrical properties

driver: not dimmable

power : 77 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1
UNLIMITED

Luminance

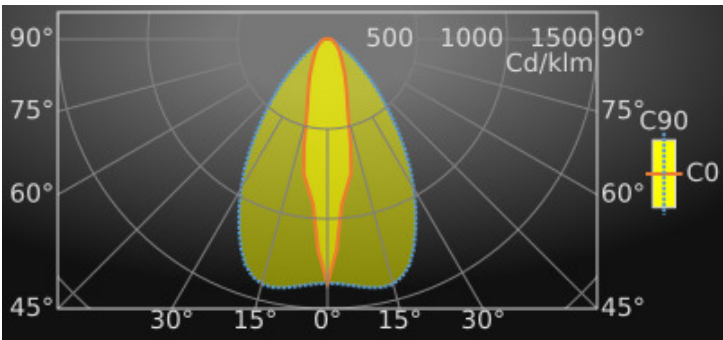
luminous flux : 9750 lm

luminous efficacy : 127 lm/W

UGR classification =: <=25

luminous area : 0.12 m²

Average Luminances (Cd/m²) for 9750lm					
Gamma	C0	C30	C45	C60	C90
45°	7135	8164	10237	15288	43986
50°	6127	6852	8300	11815	31902
55°	5316	5834	6728	9047	23337
60°	4669	5081	5427	7021	17068
65°	4114	4463	4454	5672	13099
70°	3701	3916	3746	4756	10867
75°	3388	3443	3233	3986	10495
80°	3164	3037	2754	3218	9940
85°	2990	2652	2254	2546	8561



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	100	2
20	99	4
30	99	6
40	99	8
50	99	10
60	99	12

Luminous intensities in cd

Intensity for 9750lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	13242.7	13242.7	13242.7	90°	172.9	80.0	3.7
5°	9002.1	10617.2	13386.7	95°	141.1	49.3	0.0
10°	7401.6	7930.7	13688.3	100°	109.3	24.8	0.0
15°	4353.3	6602.0	13759.7	105°	78.4	8.7	0.0
20°	3047.9	4478.1	13021.6	110°	49.5	2.1	0.0
25°	2289.1	3296.7	11334.9	115°	25.6	0.4	0.0
30°	1709.0	2535.0	9363.9	120°	8.3	0.0	0.0
35°	1340.5	1968.1	7311.6	125°	1.7	0.0	0.0
40°	1096.7	1520.6	5313.8	130°	0.4	0.0	0.0
45°	908.1	1175.7	3732.4	135°	0.0	0.0	0.0
50°	754.2	910.0	2460.7	140°	0.0	0.0	0.0
55°	627.1	696.9	1606.2	145°	0.0	0.0	0.0
60°	522.8	525.0	1024.1	150°	0.0	0.0	0.0
65°	432.4	397.1	664.3	155°	0.0	0.0	0.0
70°	360.6	303.0	446.0	160°	0.0	0.0	0.0
75°	301.6	232.9	325.9	165°	0.0	0.0	0.0
80°	252.9	172.5	207.1	170°	0.0	0.0	0.0
85°	210.0	118.8	89.5	175°	0.0	0.0	0.0
90°	172.9	80.0	3.7	180°	0.0	0.0	0.0

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 9750lm (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	15.6	17.0	15.9	17.3	17.6	21.4	22.9	21.7	23.1	23.4
Y = 3H	16.7	18.0	17.1	18.3	18.6	22.0	23.3	22.3	23.6	23.9
Y = 4H	17.3	18.5	17.6	18.8	19.1	22.2	23.5	22.6	23.8	24.1
Y = 6H	17.8	18.9	18.2	19.3	19.6	22.5	23.6	22.9	24.0	24.3
Y = 8H	18.1	19.2	18.4	19.5	19.8	22.6	23.7	23.0	24.0	24.4
Y = 12H	18.3	19.4	18.7	19.7	20.1	22.6	23.7	23.0	24.0	24.4
X = 4H Y = 2H	16.1	17.4	16.5	17.7	18.0	21.3	22.5	21.7	22.9	23.2
Y = 3H	17.4	18.5	17.8	18.8	19.2	22.0	23.0	22.4	23.4	23.7
Y = 4H	18.1	19.1	18.6	19.4	19.8	22.3	23.3	22.7	23.6	24.0
Y = 6H	18.8	19.7	19.3	20.1	20.5	22.7	23.5	23.1	23.9	24.3
Y = 8H	19.2	20.0	19.6	20.4	20.8	22.8	23.6	23.3	24.0	24.4
Y = 12H	19.5	20.2	20.0	20.7	21.1	22.9	23.6	23.4	24.1	24.5
X = 8H Y = 4H	18.4	19.1	18.8	19.5	20.0	22.3	23.1	22.8	23.5	23.9
Y = 6H	19.2	19.9	19.7	20.3	20.8	22.7	23.4	23.2	23.8	24.3
Y = 8H	19.7	20.3	20.2	20.7	21.2	22.9	23.5	23.4	24.0	24.5
Y = 12H	20.2	20.7	20.7	21.2	21.7	23.1	23.6	23.6	24.1	24.6
X = 12H Y = 4H	18.4	19.1	18.8	19.5	20.0	22.3	23.0	22.8	23.4	23.9
Y = 6H	19.3	19.8	19.8	20.3	20.8	22.7	23.3	23.2	23.8	24.3
Y = 8H	19.8	20.3	20.3	20.8	21.3	22.9	23.4	23.4	23.9	24.5
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: CRI (Ra) 80

Efficiency

Utilisation Factors according to IES (%)											Utilisation Factors according to LiTG (%)										
	Room Reflection Factors (%)											Room Reflection Factors (%)									
Ceiling	80	80	80	50	50	50	30	30	30	0	Ceiling	80	80	80	50	50	50	50	30	0	
Walls	50	30	10	50	30	10	50	30	10	0	Walls	50	30	50	30	50	30	50	30	30	0
Floor	20	20	20	20	20	20	20	20	20	0	Floor	30	30	10	10	30	30	10	10	10	0
RCR = 1	107	105	103	100	98	97	96	95	94	88	k = 0.60	65	58	62	56	63	57	61	56	55	50
2	97	93	90	91	88	86	88	85	83	78	0.80	75	67	70	64	72	65	68	63	63	58
3	88	83	79	83	79	76	81	77	75	71	1.00	82	75	76	71	78	72	74	70	69	64
4	81	75	71	77	72	69	75	70	67	64	1.25	91	83	83	78	86	80	81	77	76	71
5	75	68	64	71	66	62	69	65	61	58	1.50	96	89	87	82	90	85	84	81	79	75
6	69	63	58	66	61	57	65	60	56	54	2.00	103	96	92	88	95	91	89	86	84	80
7	64	58	53	62	56	52	61	56	52	50	2.50	107	102	95	91	99	95	92	89	88	83
8	60	54	49	58	52	49	57	52	48	46	3.00	111	106	97	95	103	99	94	92	91	86
9	57	50	46	55	49	45	54	49	45	43	4.00	115	110	99	97	105	102	96	94	93	88
10	53	47	43	52	46	42	51	46	42	40	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
E4H103	Alignment bracket

