

E4001/LED2W060S



industrial luminaire • linear
Application : Production sites
housing: lacquered aluminium
light source : LED • 3000 K
optics : DUAL?LENS • polycarbonate (PC) • narrow-angle
UGR classification : <=22
luminous flux: 6150 lm
luminous efficacy : 121 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: IP40
IK: IK06

Electrical properties

driver: not dimmable
power : 51 W
voltage : 220-240V
frequency : 50-60Hz AC
photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED

Luminance

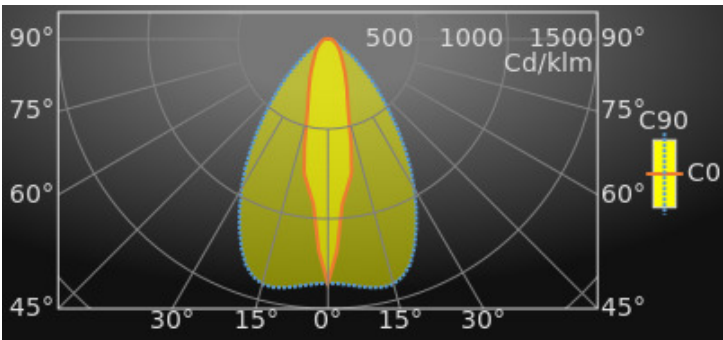
luminous flux : 6150 lm

luminous efficacy : 121 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)

	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	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: 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

