

E7010/LED1W032050ST1



industrial luminaire • linear

Application : Production sites

housing: satin-anodised aluminium

light source : LED • 3000 K

optics : LED+LENS™ • polycarbonate (PC) lens and cup • narrow-angle

UGR classification : <=22

luminous efficacy : 117 lm/W

LLMF: 97% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 1070 mm x 90 mm x 88 mm

colour: anodised aluminium

type : individual luminaire

IP: IP40

IK: IK07

ambient temperature: 5°C - 35°C •

Electrical properties

driver: not dimmable

power : 43 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1
UNLIMITED

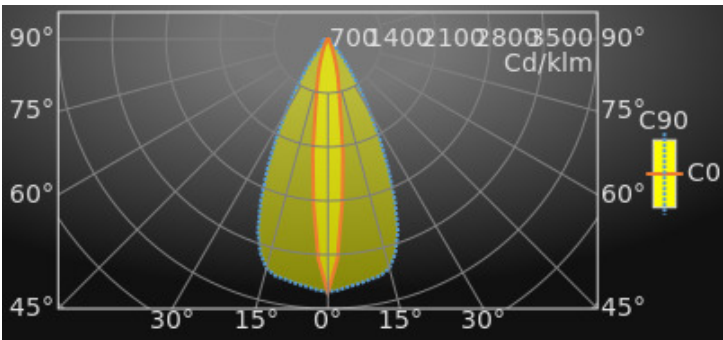
Luminance

luminous efficacy : 117 lm/W

UGR classification =: <=22

luminous area : 0.09 m²

Average Luminances (Cd/m²) for 5050lm					
Gamma	C0	C30	C45	C60	C90
45°	1990	2116	2573	3894	9605
50°	1943	1906	2207	2851	4286
55°	1974	1788	2034	2915	2516
60°	1768	1720	1761	2416	3347
65°	1406	1435	1352	2130	7465
70°	1179	1121	1087	1205	4403
75°	890	655	953	1265	4680
80°	114	209	1075	1971	17731
85°	56	217	2674	4277	25566



Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	100	1
20	99	2
30	99	3
40	98	4
50	98	5
60	97	6

Luminous intensities in cd

Intensity for 5050lm

Gamma	C0	C45	C90
0°	16580.7	16580.7	16580.7
5°	10813.2	13155.8	16275.3
10°	4780.3	7433.5	16003.3
15°	2501.7	3976.9	15558.2
20°	1287.1	2260.4	13409.7
25°	607.1	1286.8	9360.2
30°	309.4	714.9	5486.9
35°	194.9	395.5	2813.5
40°	146.3	235.4	1325.9
45°	122.4	158.3	590.9
50°	108.7	123.4	239.7
55°	98.5	101.5	125.6
60°	76.9	76.6	145.6
65°	51.7	49.7	274.5
70°	35.1	32.4	131.0
75°	20.0	21.5	105.4
80°	1.7	16.2	267.9
85°	0.4	20.3	193.9
90°	0.0	4.1	110.2

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 5050lm (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	7.1	8.2	7.4	8.4	8.6	15.5	16.6	15.8	16.8	17.1
Y = 3H	8.1	9.0	8.4	9.3	9.5	16.5	17.5	16.8	17.7	18.0
Y = 4H	8.3	9.2	8.6	9.5	9.7	16.8	17.7	17.1	18.0	18.3
Y = 6H	8.3	9.1	8.6	9.4	9.7	19.4	20.2	19.7	20.5	20.8
Y = 8H	8.2	9.0	8.6	9.3	9.7	21.1	21.9	21.5	22.2	22.5
Y = 12H	8.2	9.0	8.6	9.3	9.6	22.5	23.2	22.8	23.5	23.9
X = 4H Y = 2H	7.7	8.7	8.1	8.9	9.2	15.4	16.3	15.7	16.6	16.8
Y = 3H	8.7	9.5	9.1	9.8	10.1	16.4	17.2	16.8	17.5	17.8
Y = 4H	9.0	9.6	9.4	10.0	10.3	16.8	17.4	17.2	17.8	18.1
Y = 6H	9.0	9.6	9.4	9.9	10.3	19.7	20.2	20.1	20.6	21.0
Y = 8H	8.9	9.5	9.4	9.9	10.3	21.6	22.2	22.0	22.5	23.0
Y = 12H	8.9	9.4	9.3	9.8	10.2	23.2	23.7	23.7	24.2	24.6
X = 8H Y = 4H	9.1	9.7	9.6	10.1	10.5	16.7	17.2	17.1	17.6	18.0
Y = 6H	9.1	9.6	9.6	10.0	10.5	19.6	20.1	20.1	20.5	21.0
Y = 8H	9.1	9.5	9.6	9.9	10.4	21.7	22.1	22.1	22.5	23.0
Y = 12H	9.0	9.4	9.5	9.9	10.4	23.5	23.9	24.0	24.3	24.9
X = 12H Y = 4H	9.3	9.8	9.8	10.2	10.7	16.6	17.1	17.1	17.5	18.0
Y = 6H	9.4	9.8	9.9	10.3	10.8	19.6	20.0	20.0	20.4	20.9
Y = 8H	9.4	9.8	9.9	10.2	10.8	21.6	22.0	22.1	22.5	23.0
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+0.6		-0.5			+0.8		-0.3		
S = 1.5H	+0.8		-1.0			+1.9		-0.5		
S = 2.0H	+1.3		-1.7			+2.9		-0.9		

Colour properties

Correlated Colour Temperature : 3000

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	111	109	108	105	103	103	101	100	99	94
2	104	101	99	99	97	95	96	94	93	88
3	98	94	92	94	91	89	91	89	87	83
4	93	88	85	89	86	83	87	84	82	79
5	88	83	80	85	81	78	83	80	78	75
6	84	79	75	81	77	74	80	76	74	71
7	80	75	71	78	74	71	76	73	70	68
8	76	71	68	75	70	67	73	70	67	65
9	73	68	65	72	67	64	71	67	64	62
10	70	65	62	69	65	62	68	64	62	60

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	87	82	83	79	85	81	82	79	78	76
0.80	92	86	86	83	89	85	85	82	82	79
1.00	98	92	91	87	94	90	89	87	86	83
1.25	104	99	95	93	100	96	94	92	91	88
1.50	107	102	97	95	102	98	95	93	92	90
2.00	112	107	100	98	105	102	98	96	95	92
2.50	115	111	102	100	107	104	99	98	97	94
3.00	118	114	103	101	109	107	101	99	98	95
4.00	120	117	104	103	111	109	101	100	99	96
5.00	122	119	105	104	112	110	102	101	100	97

Available accessories

E7H111 *Single mounting bracket for ceiling mounting*

E7H121 *Single mounting bracket for threaded rod*

E7H131 *Single mounting bracket for chain*

E7H151 *Single mounting bracket for ball impact-proof ceiling mounting*

E7H161 *Single bracket protected with screws, with pigtail for chain (chain not included)*

E7H181 *Single mounting bracket for steel wire*

E7H182 *Double mounting bracket for steel wire*

Dimensional drawing

