

E7020/LED1N064100ST1



industrial luminaire • linear
housing: satin-anodised aluminium
light source : LED • 4000 K
optics : LED+LENS™ • polycarbonate (PC) lens and cup • narrow-angle
UGR classification : <=25
luminous efficacy : 128 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 : 76 W
voltage : 220-240V
frequency : 50-60Hz AC
photobiological safety : EN 62471: RISK GROUP 1 UNLIMITED

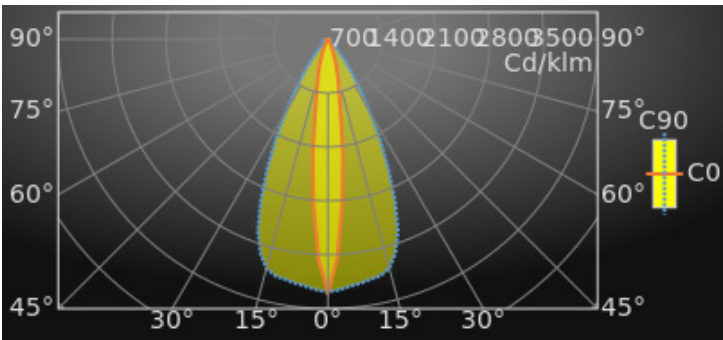
Luminance

luminous efficacy : 128 lm/W

UGR classification =: <=25

luminous area : 0.09 m²

Average Luminances (Cd/m²) for 9750lm					
Gamma	C0	C30	C45	C60	C90
45°	3842	4085	4968	7517	18544
50°	3752	3680	4261	5504	8275
55°	3811	3451	3928	5628	4858
60°	3413	3320	3400	4664	6463
65°	2714	2770	2611	4113	14412
70°	2276	2165	2099	2327	8500
75°	1719	1264	1839	2443	9035
80°	220	403	2075	3806	34234
85°	109	419	5163	8258	49360



Classifications

CIE: 915 / 966 / 988 / 1000 / 1000

CIE FLUXCODE : 0.92 / 0.97 / 0.99 / 1.00 / 1.00

BZ: BZ1

CAE: CAE 4/5°/CAE 3/15°/CAE 4/75°/CAE 3

DIN: A60 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.88

UTE: 1.00 A + 0.00 T



This document has been compiled by ETAP with the greatest possible care. However, the information contained in this publication is not binding and may change due to technical development. ETAP is not liable for any damage whatsoever resulting from the use of this document.
www.etaplighting.com // Made in Belgium

Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	99	1
20	99	2
30	98	3
40	98	4
50	97	5
60	96	6

Luminous intensities in cd

Intensity for 9750lm

Gamma	C0	C45	C90
0°	32012.3	32012.3	32012.3
5°	20877.0	25399.8	31422.7
10°	9229.3	14351.9	30897.5
15°	4830.0	7678.2	30038.1
20°	2485.1	4364.1	25890.0
25°	1172.0	2484.5	18071.6
30°	597.4	1380.3	10593.5
35°	376.2	763.5	5432.0
40°	282.5	454.6	2560.0
45°	236.3	305.6	1140.8
50°	209.8	238.3	462.7
55°	190.2	196.0	242.4
60°	148.4	147.9	281.1
65°	99.8	96.0	529.9
70°	67.7	62.5	252.9
75°	38.7	41.4	203.5
80°	3.3	31.3	517.2
85°	0.8	39.1	374.3
90°	0.0	7.8	212.8

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	9.4	10.5	9.7	10.7	10.9	17.8	18.9	18.1	19.1	19.4
Y = 3H	10.3	11.3	10.6	11.6	11.8	18.8	19.8	19.1	20.0	20.3
Y = 4H	10.6	11.5	10.9	11.7	12.0	19.1	20.0	19.4	20.3	20.6
Y = 6H	10.6	11.4	10.9	11.7	12.0	21.7	22.5	22.0	22.8	23.1
Y = 8H	10.5	11.3	10.9	11.6	11.9	23.4	24.2	23.8	24.5	24.8
Y = 12H	10.5	11.3	10.9	11.6	11.9	24.7	25.5	25.1	25.8	26.1
X = 4H Y = 2H	10.0	10.9	10.4	11.2	11.5	17.7	18.6	18.0	18.8	19.1
Y = 3H	11.0	11.8	11.4	12.1	12.4	18.7	19.4	19.1	19.8	20.1
Y = 4H	11.3	11.9	11.7	12.3	12.6	19.1	19.7	19.4	20.0	20.4
Y = 6H	11.3	11.8	11.7	12.2	12.6	21.9	22.5	22.3	22.9	23.3
Y = 8H	11.2	11.8	11.6	12.2	12.6	23.9	24.4	24.3	24.8	25.2
Y = 12H	11.2	11.7	11.6	12.1	12.5	25.5	26.0	26.0	26.4	26.9
X = 8H Y = 4H	11.4	12.0	11.8	12.4	12.8	19.0	19.5	19.4	19.9	20.3
Y = 6H	11.4	11.9	11.9	12.3	12.8	21.9	22.4	22.3	22.8	23.2
Y = 8H	11.4	11.8	11.8	12.2	12.7	23.9	24.3	24.4	24.8	25.3
Y = 12H	11.3	11.7	11.8	12.2	12.7	25.8	26.1	26.3	26.6	27.1
X = 12H Y = 4H	11.6	12.1	12.0	12.5	13.0	18.9	19.4	19.4	19.8	20.3
Y = 6H	11.7	12.1	12.2	12.6	13.0	21.9	22.3	22.3	22.7	23.2
Y = 8H	11.7	12.0	12.2	12.5	13.1	23.9	24.3	24.4	24.7	25.3
	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 : 4000

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

