

E62/LED4N60D5



surface-mounted luminaire • linear

application : Industry, Logistics

light source : LED LP • 4000 K

optics : Linear lens • polycarbonate (PC) • wide-angle

UGR classification : <=28

luminous flux: 6100 lm

luminous efficacy : 115 lm/W

LLMF: 89% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

cut-out size : 90 mm

colour: RAL7037 - dusty grey

type : individual luminaire

IP: IP66

ambient temperature: from -20°C to 35°C •

Electrical properties

driver: DALI dimmable

power : 53 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 1
UNLIMITED

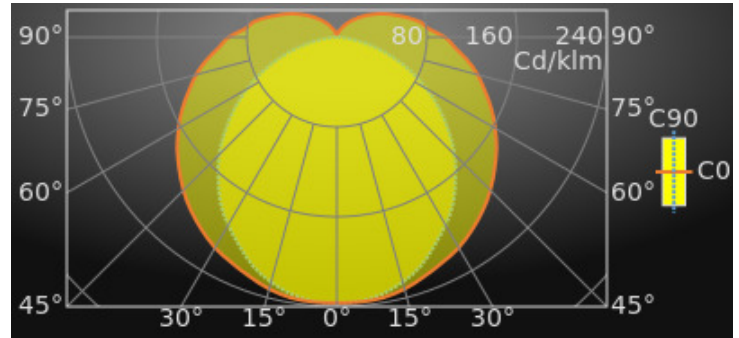
Luminance

luminous flux : 6100 lm

luminous efficacy : 115 lm/W

UGR classification ≤ 28

luminous area : 0.08 m²



Average Luminances (Cd/m²) for 6100lm

Gamma	C0	C30	C45	C60	C90
45°	12833	12703	12792	13027	15334
50°	12538	12383	12371	12499	14781
55°	12323	12081	11945	11941	14209
60°	12112	11827	11555	11425	13552
65°	11986	11619	11274	10950	12714
70°	11851	11458	11005	10493	11595
75°	11907	11377	10844	10103	10170
80°	11930	11460	10827	9864	8035
85°	11988	11531	10850	9722	4358

Classifications

CIE: 326 / 570 / 741 / 852 / 1000

CIE FLUXCODE : 0.38 / 0.67 / 0.87 / 0.85 / 1.00

BZ: BZ10/1.25/BZ5/1.5/BZ10

CAE: CAE 1/5°/CAE 2/75°/CAE 3

DIN: B30 (Nach Arbeitsblatt 7 und 8)

DIN_U: Phi u = 0.85

DIN_SU: Phi su = 0.46

UTE: 0.85 H + 0.15 T



Luminous intensities in cd

Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	98	2
20	96	4
30	94	6
40	92	8
50	90	10
60	88	12

Intensity for 6100lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	1443.8	1443.8	1443.8	90°	586.7	382.4	3.9
5°	1443.8	1441.8	1441.0	95°	500.2	317.0	1.5
10°	1437.9	1426.5	1417.5	100°	462.9	280.7	0.6
15°	1416.7	1394.1	1378.2	105°	402.5	236.9	0.5
20°	1384.0	1358.4	1325.2	110°	346.5	198.2	0.5
25°	1351.7	1311.2	1249.8	115°	297.3	164.3	0.4
30°	1321.2	1254.6	1177.8	120°	251.1	135.3	0.4
35°	1277.1	1193.3	1100.0	125°	209.3	110.5	0.4
40°	1230.6	1124.0	999.8	130°	172.3	88.9	0.4
45°	1176.0	1049.3	902.1	135°	138.5	70.5	0.7
50°	1116.2	972.6	790.5	140°	109.0	54.1	0.8
55°	1056.4	891.1	678.1	145°	84.1	41.4	1.1
60°	990.5	809.0	563.7	150°	61.8	31.1	1.9
65°	925.5	731.6	447.1	155°	44.0	22.8	2.8
70°	853.9	652.4	330.0	160°	30.3	16.5	3.9
75°	790.0	577.2	219.0	165°	21.9	14.0	6.4
80°	717.5	506.2	116.1	170°	19.8	16.1	13.1
85°	641.0	433.3	31.6	175°	22.1	21.7	21.0
90°	586.7	382.4	3.9	180°	24.4	24.4	24.4

UGR classification

Corrected Glare Ratings for a Total Lamp Flux of 6100lm (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	20.7	22.3	21.2	22.8	23.3	19.6	21.2	20.1	21.7	22.2
Y = 3H	22.9	24.3	23.4	24.9	25.4	21.0	22.4	21.5	22.9	23.5
Y = 4H	24.0	25.3	24.5	25.9	26.4	21.5	22.8	22.0	23.4	23.9
Y = 6H	25.0	26.3	25.6	26.9	27.4	21.7	23.0	22.3	23.6	24.1
Y = 8H	25.5	26.7	26.1	27.3	27.9	21.8	23.0	22.4	23.6	24.2
Y = 12H	26.0	27.2	26.6	27.8	28.3	21.8	23.0	22.4	23.6	24.1
X = 4H Y = 2H	21.3	22.6	21.8	23.2	23.7	20.4	21.8	21.0	22.4	22.9
Y = 3H	23.7	24.9	24.3	25.5	26.0	22.1	23.2	22.7	23.8	24.4
Y = 4H	24.9	26.0	25.5	26.6	27.2	22.7	23.8	23.3	24.4	25.0
Y = 6H	26.2	27.2	26.8	27.8	28.4	23.2	24.1	23.8	24.8	25.4
Y = 8H	26.8	27.7	27.4	28.3	29.0	23.3	24.2	23.9	24.9	25.5
Y = 12H	27.4	28.2	28.0	28.9	29.5	23.3	24.2	24.0	24.8	25.5
X = 8H Y = 4H	25.2	26.1	25.9	26.8	27.4	23.4	24.3	24.0	24.9	25.6
Y = 6H	26.7	27.5	27.4	28.2	28.9	24.2	24.9	24.8	25.6	26.3
Y = 8H	27.5	28.2	28.2	28.9	29.6	24.4	25.1	25.1	25.8	26.5
Y = 12H	28.3	28.9	29.0	29.6	30.3	24.6	25.2	25.3	25.9	26.6
X = 12H Y = 4H	25.3	26.1	25.9	26.8	27.4	23.5	24.4	24.2	25.0	25.7
Y = 6H	26.8	27.5	27.5	28.2	28.9	24.4	25.1	25.1	25.8	26.5
Y = 8H	27.7	28.3	28.4	29.0	29.7	24.8	25.5	25.5	26.2	26.9
UGR Variations with Observer Position for Luminaire Spacings S										
S = 1.0H	+0.1		-0.1		+0.1		-0.1			
S = 1.5H	+0.2		-0.2		+0.2		-0.2			
S = 2.0H	+0.2		-0.3		+0.3		-0.5			



Colour properties

Correlated Colour Temperature : 4000

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	95	91	88	84	82	79	78	76	74	65
2	81	75	71	72	67	64	66	62	60	52
3	71	63	58	62	57	52	58	53	49	43
4	62	54	48	55	49	44	51	46	41	36
5	55	47	41	49	43	38	46	40	36	31
6	50	41	35	44	38	33	41	35	31	27
7	45	37	31	40	33	29	38	32	27	23
8	41	33	27	37	30	25	34	28	24	21
9	38	30	24	34	27	23	32	26	22	19
10	35	27	22	31	25	20	29	24	20	17

Utilisation Factors according to LiTG (%)

	Room Reflection Factors (%)									
	80	80	80	50	50	50	50	30	30	0
Ceiling	80	80	80	50	50	50	50	30	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	41	32	39	31	37	30	36	29	28	20
0.80	52	42	48	40	46	38	44	37	35	27
1.00	60	49	55	47	53	45	50	43	41	32
1.25	68	58	63	55	61	53	57	51	48	39
1.50	75	65	68	60	66	58	62	56	53	44
2.00	84	74	75	68	73	66	68	62	59	50
2.50	90	82	80	73	79	72	73	68	64	55
3.00	96	88	84	78	83	77	76	72	68	59
4.00	101	94	88	83	88	83	80	76	72	63
5.00	106	100	91	87	91	87	83	80	76	67

Dimensional drawing

