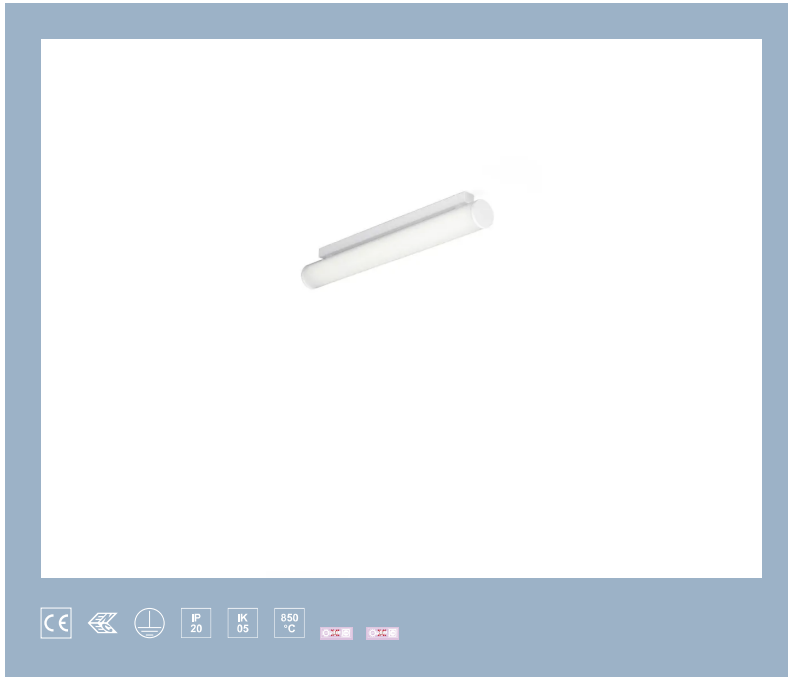


R810R1/LEDW25D



surface-mounted luminaire • linear

Application : Education ? Corridor, Education ? Canteen, Offices ? Corridor, Healthcare ? Corridor

light source : LED • 3000 K

optics : HaloOptics diffuser • polycarbonate (PC) HaloOptics® • wide-angle

UGR classification : <=25

luminous flux: 2450 lm

luminous efficacy : 111 lm/W

LLMF: 95% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 787 mm x 80 mm x 121 mm

colour: RAL9003 - white

type : individual luminaire

IP: IP20

IK: IK05

Electrical properties

driver: DALI dimmable

power : 22 W

voltage : 220-240V

frequency : 50-60Hz AC

photobiological safety : EN 62471: RISK GROUP 0 UNLIMITED

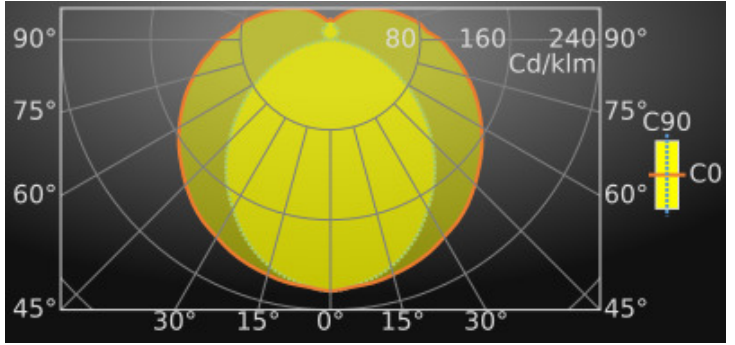
Luminance

luminous flux : 2450 lm

luminous efficacy : 111 lm/W

UGR classification =: ≤ 25

luminous area : 0.06 m²



Average Luminances (Cd/m²) for 2450lm

Gamma	C0	C30	C45	C60	C90
45°	5127	5115	5142	5328	7107
50°	4906	4867	4865	4984	6776
55°	4723	4648	4589	4646	6421
60°	4547	4432	4343	4327	6010
65°	4396	4256	4124	4023	5567
70°	4267	4093	3943	3764	5074
75°	4134	3961	3790	3548	4454
80°	4046	3871	3671	3375	3731
85°	3943	3770	3570	3266	2619

Classifications

CIE: 300 / 522 / 679 / 788 / 1000

CIE FLUXCODE : 0.38 / 0.66 / 0.86 / 0.79 / 1.00

BZ: BZ10/1.25/BZ5/1.5/BZ10

CAE: CAE 4/5°/CAE 3/25°/CAE 2/75°/CAE 3

DIN: B30 (Nach Arbeitsblatt 7 und 8)

DIN_U: $\Phi_u = 0.79$

DIN_SU: $\Phi_{su} = 0.45$

UTE: 0.79 H + 0.21 T

Lifetime Data (Tq=25.0°C)

Time(khrs)	LLMF(%)	Cx(%)
10	99	2
20	98	4
30	97	6
40	97	8
50	96	10
60	95	12

Luminous intensities in cd

Intensity for 2450lm

Gamma	C0	C45	C90	Gamma	C0	C45	C90
0°	547.1	547.1	547.1	90°	240.3	156.4	2.9
5°	540.2	539.2	538.9	95°	211.1	135.0	2.7
10°	536.8	532.1	527.6	100°	199.2	125.8	4.4
15°	529.4	520.9	511.5	105°	179.9	113.4	6.8
20°	521.2	505.4	488.0	110°	163.1	102.4	10.0
25°	510.4	484.9	458.8	115°	146.4	92.8	13.4
30°	495.8	462.3	424.8	120°	131.9	84.7	16.7
35°	483.1	437.9	391.5	125°	118.8	77.6	19.3
40°	466.2	410.9	354.6	130°	107.3	71.4	22.6
45°	445.7	382.3	312.8	135°	97.0	65.4	25.8
50°	424.4	354.6	271.1	140°	87.3	60.3	27.6
55°	403.4	325.1	229.2	145°	77.1	56.0	29.0
60°	380.4	296.6	187.0	150°	68.4	51.4	28.5
65°	357.4	268.9	146.4	155°	60.1	47.5	29.2
70°	334.2	242.9	108.0	160°	53.2	43.6	28.4
75°	308.9	218.2	71.7	165°	47.4	40.1	33.6
80°	285.5	194.8	40.3	170°	42.5	39.7	39.1
85°	259.8	172.0	14.2	175°	42.4	42.2	42.6
90°	240.3	156.4	2.9	180°	44.6	44.6	44.6

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 2450lm (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	17.1	18.5	17.7	19.1	19.7	15.8	17.2	16.4	17.9	18.4	
Y = 3H	19.1	20.5	19.8	21.1	21.7	17.1	18.4	17.7	19.0	19.6	
Y = 4H	20.2	21.4	20.8	22.1	22.7	17.5	18.8	18.2	19.4	20.0	
Y = 6H	21.2	22.3	21.8	23.0	23.6	17.8	19.0	18.4	19.6	20.3	
Y = 8H	21.7	22.8	22.3	23.5	24.1	17.9	19.0	18.5	19.7	20.3	
Y = 12H	22.1	23.2	22.8	23.9	24.5	17.9	18.9	18.5	19.6	20.3	
X = 4H Y = 2H	17.6	18.8	18.2	19.5	20.1	16.6	17.8	17.2	18.5	19.1	
Y = 3H	19.9	21.0	20.6	21.7	22.3	18.1	19.2	18.8	19.9	20.5	
Y = 4H	21.1	22.1	21.8	22.8	23.4	18.7	19.7	19.4	20.4	21.1	
Y = 6H	22.3	23.2	23.0	23.9	24.6	19.1	20.0	19.9	20.8	21.4	
Y = 8H	22.9	23.7	23.6	24.4	25.1	19.3	20.1	20.0	20.8	21.5	
Y = 12H	23.4	24.2	24.2	25.0	25.7	19.3	20.1	20.0	20.8	21.5	
X = 8H Y = 4H	21.4	22.2	22.1	22.9	23.6	19.4	20.2	20.1	20.9	21.6	
Y = 6H	22.8	23.5	23.6	24.3	25.0	20.1	20.8	20.8	21.6	22.3	
Y = 8H	23.6	24.2	24.3	25.0	25.7	20.4	21.0	21.1	21.8	22.5	
Y = 12H	24.3	24.9	25.1	25.7	26.4	20.5	21.1	21.3	21.9	22.7	
X = 12H Y = 4H	21.4	22.1	22.1	22.9	23.6	19.5	20.3	20.2	21.0	21.7	
Y = 6H	22.9	23.5	23.7	24.3	25.0	20.4	21.0	21.1	21.8	22.5	
Y = 8H	23.7	24.3	24.5	25.1	25.8	20.8	21.3	21.5	22.1	22.9	
	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		+0.1			-0.2	
S = 2.0H	+0.2				-0.3		+0.3			-0.4	

Colour properties

Correlated Colour Temperature : 3000

Ra: CRI (Ra) 80

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	94	90	88	81	79	77	74	72	70	60
2	81	75	70	69	65	62	63	59	56	48
3	70	63	58	60	55	51	55	50	47	39
4	62	54	48	53	47	43	48	43	39	33
5	55	47	41	48	41	37	43	38	34	28
6	50	41	35	43	36	32	39	34	29	24
7	45	36	31	39	32	28	36	30	26	22
8	41	33	27	36	29	25	33	27	23	19
9	37	29	24	33	26	22	30	25	21	17
10	34	27	22	30	24	20	28	22	19	15

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	41	32	39	31	36	29	35	28	26	19
0.80	51	41	48	39	44	37	42	36	33	25
1.00	59	49	55	46	51	43	48	42	39	30
1.25	67	57	62	54	58	51	55	49	45	36
1.50	74	64	67	59	63	56	59	54	50	40
2.00	82	73	74	67	70	64	65	60	56	46
2.50	89	80	79	72	76	70	70	65	61	51
3.00	94	86	82	77	80	74	74	69	65	54
4.00	100	93	86	82	84	80	77	74	68	58
5.00	104	98	89	85	88	84	80	77	72	61

Dimensional drawing

