

U7C-M236-25-840-075D



recessed luminaire • square

Application : Education ? Classrooms, Offices ?
Desk

housing: lacquered sheet steel

light source : LED • 4000 K

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

UGR classification : <=19

luminous flux: 7500 lm

luminous efficacy : 158 lm/W

LLMF: 95% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions : 596 mm x 596 mm x 50 mm

cut-out size : 596 mm x 596 mm x 50 mm

shape : module 600

colour: RAL9003 - white

type : individual luminaire

IP: IP20

Electrical properties

driver: DALI dimmable

power : 47.5 W

voltage : 220-240V

frequency : 50/60Hz AC

photobiological safety : EN 62471: RISK GROUP 1
UNLIMITED

Luminance

luminous flux : 7500 lm

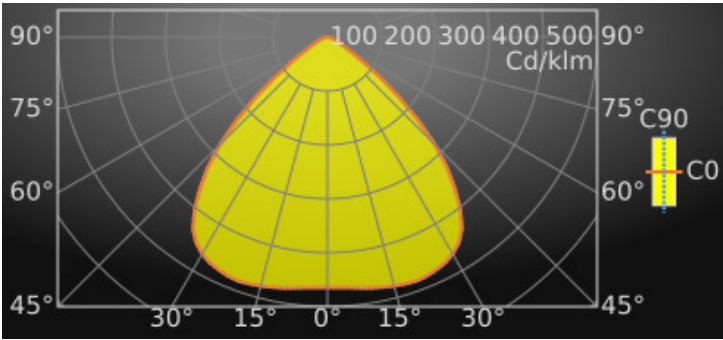
luminous efficacy : 158 lm/W

luminance @ 65° = : 3000 cd/m²

UGR classification =: <=19

luminous area : 0.18 m²

Gamma	Average Luminances (Cd/m²) for 7500lm				
	C0	C30	C45	C60	C90
45°	16955	16955	16955	16955	16955
50°	11476	11476	11476	11476	11476
55°	6247	6247	6247	6247	6247
60°	3322	3322	3322	3322	3322
65°	2368	2368	2368	2368	2368
70°	1884	1884	1884	1884	1884
75°	1562	1562	1562	1562	1562
80°	1252	1252	1252	1252	1252
85°	691	691	691	691	691



Classifications

CIE: 699 / 962 / 994 / 1000 / 1000

CIE FLUXCODE : 0.70 / 0.96 / 0.99 / 1.00 / 1.00

BZ: BZ2

CAE: Symmetrical

DIN: A50 (Nach Arbeitsblatt 7)

DIN_U: Phi u = 1.00

DIN_SU: Phi su = 0.70

UTE: 1.00 C + 0.00 T

Lifetime Data (Tq=25.0°C)

Time(hrs)	LLMF(%)	Cx(%)
10000	99	1
20000	98	2
30000	97	3
40000	96	4
50000	95	5
60000	94	6
70000	93*	7
80000	92*	8
90000	91*	9
100000	91*	9

Luminous intensities in cd

Intensity for 7500lm

Gamma	C0	C45	C90
0°	3483.3	3483.3	3483.3
5°	3496.4	3496.4	3496.4
10°	3541.0	3541.0	3541.0
15°	3582.0	3582.0	3582.0
20°	3609.0	3609.0	3609.0
25°	3572.1	3572.1	3572.1
30°	3482.1	3482.1	3482.1
35°	3255.8	3255.8	3255.8
40°	2757.8	2757.8	2757.8
45°	2114.9	2114.9	2114.9
50°	1301.2	1301.2	1301.2
55°	632.1	632.1	632.1
60°	293.0	293.0	293.0
65°	176.5	176.5	176.5
70°	113.7	113.7	113.7
75°	71.3	71.3	71.3
80°	38.4	38.4	38.4
85°	10.6	10.6	10.6
90°	0.0	0.0	0.0

Colour properties

Correlated Colour Temperature : 4000

Ra: CRI (Ra) 80

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 7500lm (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	19.0	20.7	19.4	20.9	21.2	19.0	20.7	19.4	20.9	21.2
Y = 3H	19.0	20.4	19.3	20.7	21.0	19.0	20.4	19.3	20.7	21.0
Y = 4H	19.0	20.3	19.3	20.6	20.9	19.0	20.3	19.3	20.6	20.9
Y = 6H	18.9	20.2	19.3	20.5	20.8	18.9	20.2	19.3	20.5	20.8
Y = 8H	18.9	20.1	19.3	20.4	20.7	18.9	20.1	19.3	20.4	20.7
Y = 12H	18.9	20.0	19.3	20.3	20.7	18.9	20.0	19.3	20.3	20.7
X = 4H Y = 2H	18.9	20.3	19.3	20.6	20.9	18.9	20.3	19.3	20.6	20.9
Y = 3H	18.9	20.1	19.3	20.4	20.8	18.9	20.1	19.3	20.4	20.8
Y = 4H	18.9	19.9	19.4	20.3	20.7	18.9	19.9	19.4	20.3	20.7
Y = 6H	18.9	19.8	19.4	20.2	20.6	18.9	19.8	19.4	20.2	20.6
Y = 8H	18.9	19.7	19.4	20.1	20.6	18.9	19.7	19.4	20.1	20.6
Y = 12H	18.9	19.6	19.4	20.1	20.5	18.9	19.6	19.4	20.1	20.5
X = 8H Y = 4H	18.9	19.7	19.3	20.1	20.5	18.9	19.7	19.3	20.1	20.5
Y = 6H	18.9	19.6	19.4	20.0	20.5	18.9	19.6	19.4	20.0	20.5
Y = 8H	18.9	19.5	19.4	19.9	20.4	18.9	19.5	19.4	19.9	20.4
Y = 12H	18.9	19.4	19.4	19.9	20.4	18.9	19.4	19.4	19.9	20.4
X = 12H Y = 4H	18.9	19.6	19.3	20.0	20.5	18.9	19.6	19.3	20.0	20.5
Y = 6H	18.9	19.5	19.4	19.9	20.4	18.9	19.5	19.4	19.9	20.4
Y = 8H	18.9	19.4	19.4	19.9	20.4	18.9	19.4	19.4	19.9	20.4
	UGR Variations with Observer Position for Luminaire Spacings S									
S = 1.0H	+1.5		-3.0			+1.5		-3.0		
S = 1.5H	+3.0		-5.7			+3.0		-5.7		
S = 2.0H	+4.8		-6.5			+4.8		-6.5		

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	108	106	104	102	100	99	98	96	95	90
2	97	93	90	92	89	87	89	86	84	80
3	88	83	79	83	79	76	81	77	75	71
4	80	73	69	76	71	67	74	70	66	63
5	72	66	61	69	64	60	67	63	59	56
6	66	59	54	63	58	53	62	57	53	50
7	61	54	49	58	52	48	57	52	48	45
8	56	49	44	54	48	43	53	47	43	41
9	52	44	40	50	44	39	49	43	39	37
10	48	41	36	46	40	36	45	40	36	34

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	58	50	55	49	56	49	54	48	48	42
0.80	71	63	67	60	68	61	65	59	59	53
1.00	79	71	74	68	76	69	72	67	66	61
1.25	89	82	82	77	84	79	80	75	74	70
1.50	95	88	86	82	90	84	84	80	79	75
2.00	102	96	92	87	96	91	89	86	84	80
2.50	108	102	95	92	100	96	93	90	89	85
3.00	112	107	98	96	104	100	96	93	92	88
4.00	116	112	100	98	106	103	97	95	94	90
5.00	119	115	102	100	109	106	99	98	96	92

Available accessories

ACC-HI10-M600 *Recessed mounting frame for plaster-board and wooden ceilings M600*



Dimensional drawing

