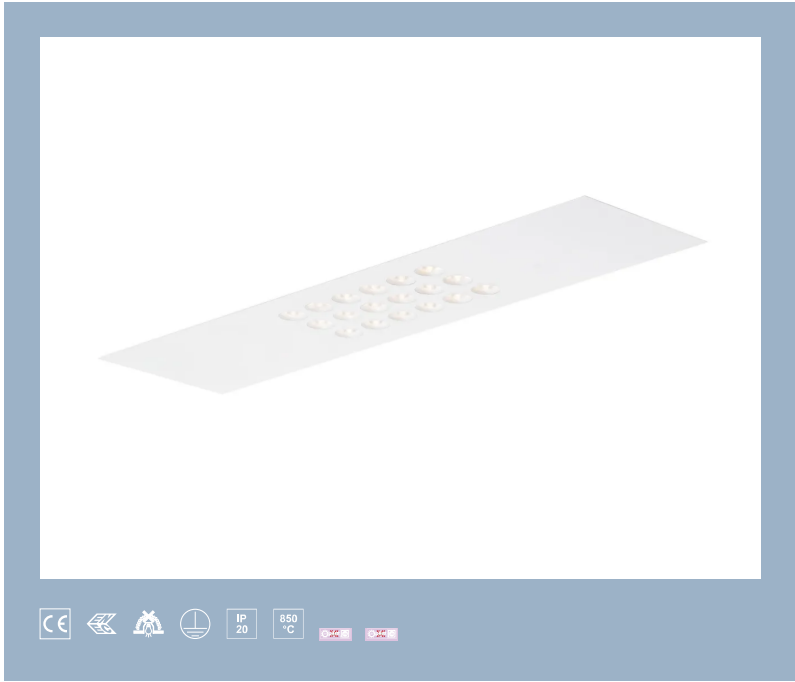


U7C-M118-25-840-035S



recessed luminaire • linear

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:	3500 lm
luminous efficacy :	156 lm/W
LLMF:	95% @ 50khrs (Tq=25°C)

Product information

Mechanical properties

dimensions :	1196 mm x 296 mm x 50 mm
cut-out size :	1196 mm x 296 mm x 50 mm
shape :	module 300
colour:	RAL9003 - white
type :	individual luminaire
IP:	IP20

Electrical properties

driver:	not dimmable
power :	22.5 W
voltage :	220-240V
frequency :	50/60Hz AC
photobiological safety :	EN 62471: RISK GROUP 1 UNLIMITED

Luminance

luminous flux : 3500 lm

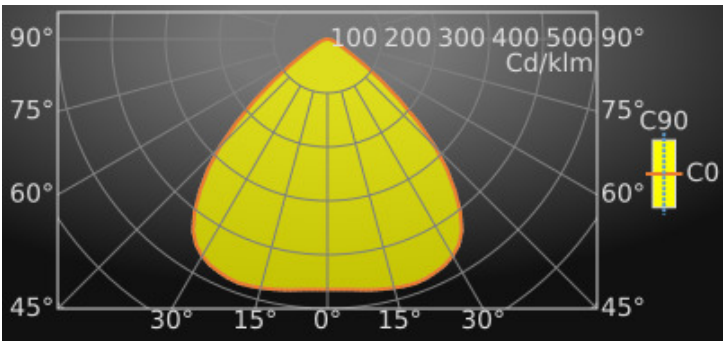
luminous efficacy : 156 lm/W

luminance @ 65° = : 3000 cd/m²

UGR classification =: <=19

luminous area : 0.09 m²

Gamma	Average Luminances (Cd/m²) for 3500lm				
	C0	C30	C45	C60	C90
45°	15825	15825	15825	15825	15825
50°	10711	10711	10711	10711	10711
55°	5831	5831	5831	5831	5831
60°	3101	3101	3101	3101	3101
65°	2210	2210	2210	2210	2210
70°	1759	1759	1759	1759	1759
75°	1458	1458	1458	1458	1458
80°	1169	1169	1169	1169	1169
85°	645	645	645	645	645



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	95	6
70000	94*	7
80000	93*	8
90000	92*	9
100000	92*	9

Luminous intensities in cd

Intensity for 3500lm

Gamma	C0	C45	C90
0°	1625.5	1625.5	1625.5
5°	1631.7	1631.7	1631.7
10°	1652.4	1652.4	1652.4
15°	1671.6	1671.6	1671.6
20°	1684.2	1684.2	1684.2
25°	1667.0	1667.0	1667.0
30°	1625.0	1625.0	1625.0
35°	1519.4	1519.4	1519.4
40°	1287.0	1287.0	1287.0
45°	987.0	987.0	987.0
50°	607.2	607.2	607.2
55°	295.0	295.0	295.0
60°	136.7	136.7	136.7
65°	82.4	82.4	82.4
70°	53.1	53.1	53.1
75°	33.3	33.3	33.3
80°	17.9	17.9	17.9
85°	5.0	5.0	5.0
90°	0.0	0.0	0.0

UGR classification =

Corrected Glare Ratings for a Total Lamp Flux of 3500lm (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	18.8	20.4	19.1	20.7	20.9	18.8	20.4	19.1	20.7	20.9		
Y = 3H	18.8	20.2	19.1	20.5	20.8	18.8	20.2	19.1	20.5	20.8		
Y = 4H	18.7	20.1	19.1	20.4	20.7	18.7	20.1	19.1	20.4	20.7		
Y = 6H	18.7	19.9	19.0	20.2	20.6	18.7	19.9	19.0	20.2	20.6		
Y = 8H	18.7	19.8	19.0	20.2	20.5	18.7	19.8	19.0	20.2	20.5		
Y = 12H	18.6	19.8	19.0	20.1	20.4	18.6	19.8	19.0	20.1	20.4		
X = 4H Y = 2H	18.7	20.0	19.0	20.3	20.6	18.7	20.0	19.0	20.3	20.6		
Y = 3H	18.7	19.8	19.1	20.2	20.5	18.7	19.8	19.1	20.2	20.5		
Y = 4H	18.7	19.7	19.1	20.1	20.4	18.7	19.7	19.1	20.1	20.4		
Y = 6H	18.7	19.6	19.1	20.0	20.4	18.7	19.6	19.1	20.0	20.4		
Y = 8H	18.7	19.5	19.1	19.9	20.3	18.7	19.5	19.1	19.9	20.3		
Y = 12H	18.7	19.4	19.1	19.8	20.3	18.7	19.4	19.1	19.8	20.3		
X = 8H Y = 4H	18.7	19.5	19.1	19.9	20.3	18.7	19.5	19.1	19.9	20.3		
Y = 6H	18.7	19.3	19.1	19.8	20.2	18.7	19.3	19.1	19.8	20.2		
Y = 8H	18.7	19.3	19.1	19.7	20.2	18.7	19.3	19.1	19.7	20.2		
Y = 12H	18.7	19.2	19.1	19.6	20.2	18.7	19.2	19.1	19.6	20.2		
X = 12H Y = 4H	18.6	19.4	19.1	19.8	20.2	18.6	19.4	19.1	19.8	20.2		
Y = 6H	18.7	19.2	19.1	19.7	20.2	18.7	19.2	19.1	19.7	20.2		
Y = 8H	18.7	19.2	19.1	19.6	20.2	18.7	19.2	19.1	19.6	20.2		
	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	

Colour properties

Correlated Colour Temperature : 4000

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	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-M300 *Mounting frame for plaster-board and wooden ceilings M300*



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Dimensional drawing

