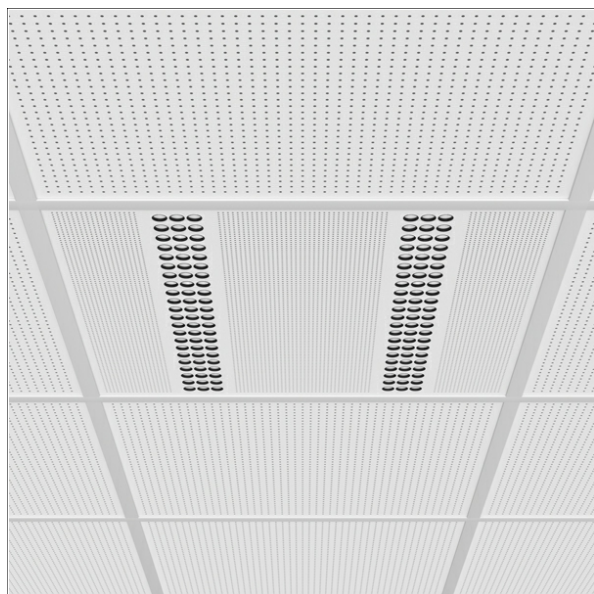
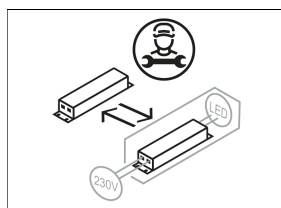
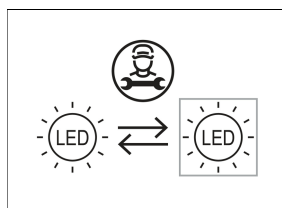
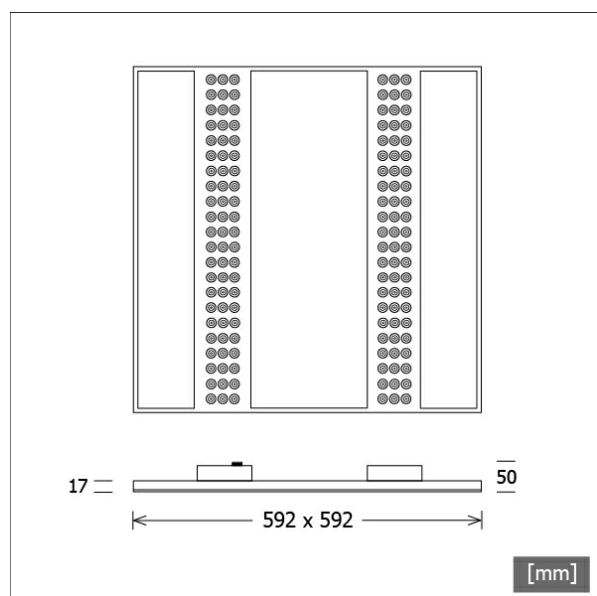


OPT-R 102.0600.TWL/DALI



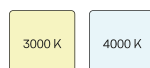
Colours	Article no.	EAN
white	661188	4043544700421



Description

- insert luminaire for suspended ceiling systems with visible T profile module (600 x 600)
- homogeneous lighting surface
- sound-absorbing surface (sound absorption level = 0.5)
- innovative tube technology for glare-free illumination
- advanced lens optics with a standard beam angle of 60°
- no UV and thermal emissions
- outstanding ease of maintenance
- luminaire housing made from aluminium with micropoint optics
- variable colour temperature control Tunable White Light (white range: 2700 - 6500 K)
- tool-free mounting into ceiling
- pre-fabricated for mains connection
- ballast (LED converter) included (with DALI dimming)

Standard options



Special options



Lighting data / Norms

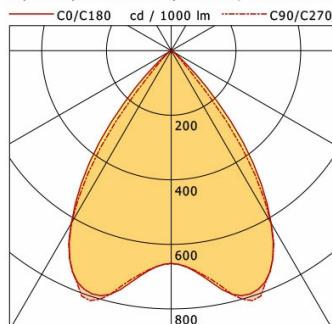
Lamps	LED Matrix TWL / CRI 80 / 2700 K
Lifetime	L90 B50 50.000 h L80 B50 100.000 h L80 B20 50.000 h
System power	29.2 W
Luminaire luminous flux	max. 2360 lm
System efficiency	74.65 lm/W
Module efficiency	140.79 lm/W
UGR class	≤16
Supply voltage	220 - 240 V / 50 - 60 Hz
Protection class	I
Type of protection	IP20

Dimensions / Weights

Length	592 mm
Width	592 mm
Height	50 mm
Recessed depth	150 mm
Net weight	5.05 kg
Gross weight	5.32 kg

OPT-R 102.0600.TWL/DALI

Optico | Recessed (2700 K, 1xLED 29W TWL 2180lm)



	C0	C90	C180	C270
0°	659	659	659	659
15°	785	791	785	791
30°	616	619	616	619
45°	131	51	131	51
60°	8	10	8	10
75°	1	0	1	0
90°	0	0	0	0

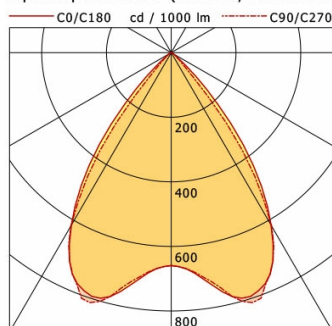
cd / 1000 lm

Offset [m]	Cone width [m]		Illuminance [lx]
	C0-C180 Plane	C90-C270 Plane	
3.0	4.44	4.22	159.7
6.0	8.88	8.45	39.9
9.0	13.32	12.67	17.7
12.0	17.76	16.89	10.0
15.0	22.19	21.11	6.4

η	LED
Efficiency	75 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	29 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	10.8
UGR C90/C270	<10.0
CIE Flux Codes	92 100 100 100 100
Ra/CRI	>90

LTS

Optico | Recessed (3000 K, 1xLED 29W TWL 2230lm)



	C0	C90	C180	C270
0°	659	659	659	659
15°	786	791	786	791
30°	617	621	617	621
45°	131	50	131	50
60°	8	10	8	10
75°	1	0	1	0
90°	0	0	0	0

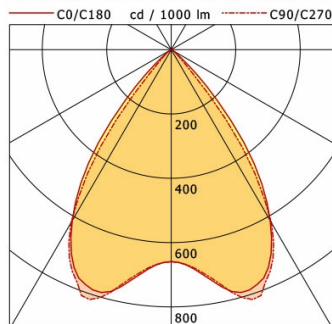
cd / 1000 lm

Offset [m]	Cone width [m]		Illuminance [lx]
	C0-C180 Plane	C90-C270 Plane	
3.0	4.44	4.22	163.4
6.0	8.88	8.45	40.8
9.0	13.32	12.67	18.2
12.0	17.76	16.90	10.2
15.0	22.20	21.12	6.5

η	LED
Efficiency	77 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	29 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	10.9
UGR C90/C270	<10.0
CIE Flux Codes	92 100 100 100 100
Ra/CRI	>90

LTS

Optico | Recessed (6500 K, 1xLED 28W TWL 2360lm)



	C0	C90	C180	C270
0°	659	659	659	659
15°	782	791	782	791
30°	614	622	614	622
45°	132	50	132	50
60°	8	10	8	10
75°	0	0	0	0
90°	0	0	0	0

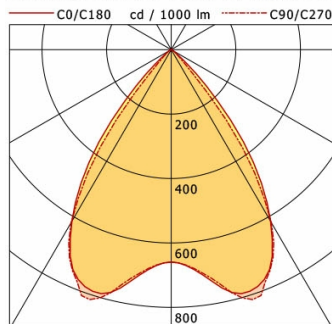
cd / 1000 lm

Offset [m]	Cone width [m]		Illuminance [lx]
	C0-C180 Plane	C90-C270 Plane	
3.0	4.48	4.23	172.9
6.0	8.95	8.47	43.2
9.0	13.43	12.70	19.2
12.0	17.90	16.94	10.8
15.0	22.38	21.17	6.9

η	LED
Efficiency	84 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	11.2
UGR C90/C270	<10.0
CIE Flux Codes	92 100 100 100 100
Ra/CRI	>90

LTS

Optico | Recessed (4000 K, 1xLED 29W TWL 2280lm)



	C0	C90	C180	C270
0°	659	659	659	659
15°	784	791	784	791
30°	615	620	615	620
45°	131	50	131	50
60°	8	10	8	10
75°	1	0	1	0
90°	0	0	0	0

cd / 1000 lm

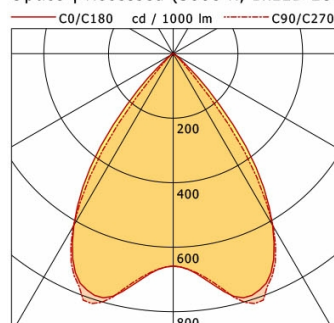
Offset [m]	Cone width [m]		Illuminance [lx]
	C0-C180 Plane	C90-C270 Plane	
3.0	4.46	4.23	167.0
6.0	8.91	8.46	41.7
9.0	13.37	12.69	18.6
12.0	17.83	16.91	10.4
15.0	22.28	21.14	6.7

η	LED
Efficiency	79 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	29 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	11.0
UGR C90/C270	<10.0
CIE Flux Codes	92 99 100 100 100
Ra/CRI	>90

LTS

OPT-R 102.0600.TWL/DALI

Optico | Recessed (5000 K, 1xLED 28W TWL 2300lm)



	C0	C90	C180	C270
0°	658	658	658	658
15°	783	792	783	792
30°	615	620	615	620
45°	131	50	131	50
60°	8	10	8	10
75°	1	0	1	0
90°	0	0	0	0

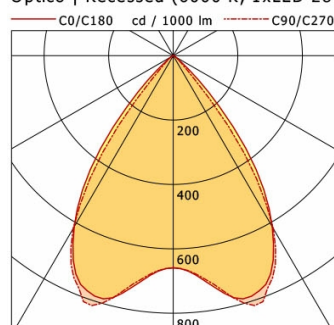
cd / 1000 lm

Offset [m]	Cone width [m]		Illuminance [lx]
	C0-C180 Plane	C90-C270 Plane	
3.0	4.47	4.23	168.2
6.0	8.94	8.46	42.1
9.0	13.41	12.69	18.7
12.0	17.88	16.92	10.5
15.0	22.34	21.14	6.7

η	LED
Efficiency	82 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	11.1
UGR C90/C270	<10.0
CIE Flux Codes	92 100 100 100 100
Ra/CRI	>90

LTS

Optico | Recessed (6000 K, 1xLED 28W TWL 2350lm)



	C0	C90	C180	C270
0°	659	659	659	659
15°	782	789	782	789
30°	613	620	613	620
45°	132	50	132	50
60°	8	10	8	10
75°	0	0	0	0
90°	0	0	0	0

cd / 1000 lm

Offset [m]	Cone width [m]		Illuminance [lx]
	C0-C180 Plane	C90-C270 Plane	
3.0	4.47	4.23	172.0
6.0	8.95	8.47	43.0
9.0	13.42	12.70	19.1
12.0	17.90	16.93	10.8
15.0	22.37	21.16	6.9

η	LED
Efficiency	84 lm/W
Direct/Indirect	↓ 100% / ↑ 0%
System Power	28 W
UGR	X=4H, Y=8H
Reflection factors	70/50/20
UGR C0/C180	11.2
UGR C90/C270	<10.0
CIE Flux Codes	92 100 100 100 100
Ra/CRI	>90

LTS