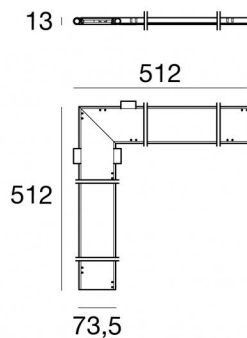




Systeme - Lineare Elemente
264 topLED 20 W DC 24 V | Modular | CRI 90
65441N



67 x
512 x
512

Technische Daten	
Typ	--- Frame
Installationsposition	Decke
Installationsumgebung	Indoor
Lichtquelle	LED
Circuit structure	topLED
Light emission direction	downward
Lampe Nennleistung	20 W DC
Lichtstrom (Lichtquelle)	2705 lm
Ähnlichste Farbtemperatur / Tone	4000 K
Farbwiedergabeindex	90 Ra
Gleichstrom/Gleichspannung	CV
Isolierklasse	3
IP	IP40
IP optisches System	IP54
Glühdrahtprüfung	850°
Direkte Montage auf normal entflammaren Oberflächen	Ja
CE	Ja
Einschließlich Driver	Nein
Leuchte dimmbar	DALI - 1-10V
Schwenkbarkeit	Nein
Drehbarkeit	Nein
Begehbarkeit	Nein
Überrollbarkeit	Nein
Einschließlich Kabel	Nein
Harzbeschichtung	Nein
Typ Lichtabstrahlung	Einflammig
Nettogewicht	0.84 Kg
Modularity	Modular
Schutz vor elektrostatischen Entladungen	Nein
Schutz vor Stoßspannungen	Nein
Optiktechnologie	Dot free

Oberfläche Gehäuse

Material	Aluminium 6060
Farbe	Weiß
Bearbeitungstyp	Pulverbeschichtung

Elektronik

	99331 On/Off Driver 198~264V AC / 176~275V DC 150 W (1 art.)
	99332 1-10V Controller (1 - 7 art.)
	99374 On/Off Driver 198~264V AC / 176~275V DC 75 W (1 - 3 art.)
	83333 Push and Simply Dim - DALI-2 Controller (1 - 7 art.)
	C-E400002 Push and Simply Dim - DALI-2 Controller (1 - 12 art.)

Systeme - Lineare Elemente | 264 topLED 20 W DC 24 V | Modular | CRI 90 | + 62461+1
65441N

Single emission systems, lines or lines for indoor application. The natural white LED light source is composed of 264 topLEDs with CCT of 4000 K and a CRI 90; the source luminous flux is 2705 lm, with a 135.3 lm/W nominal luminous efficacy.

The device body is made of aluminium 6060 and features a white finish, processed by means of powder coating. The ingress protection degree is IP40; the total weight is of 0.84 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 20 W.

The device features protection class III and can be ceiling-mounted, with a 67 x 512 x 512 mm hole (in plasterboard).

Compliant with the EN 60598-1 standard and its specific provisions.

Energieeffizienzklasse

Dieses Produkt enthält 4 Lichtquellen der Energieeffizienzklasse E.

Illuminotechnical Eigenschaften

Light Output Ratio (LOR)	19 %
Lichtstrom (Lichtquelle)	2705 lm
Leuchten Lichtstrom	524 lm
Consumption	11 W
Leuchten Lichtausbeute	47 lm/W
Farbtemperatur	4000 K
Standard Deviation of Colour Matching	3 Step MacAdam
Farbwiedergabeindex	90 Ra
Standardumgebungstemperatur	-20 / +50°C
Typische Temperatur am Glas	40°C

LED Life / Failure Ratio

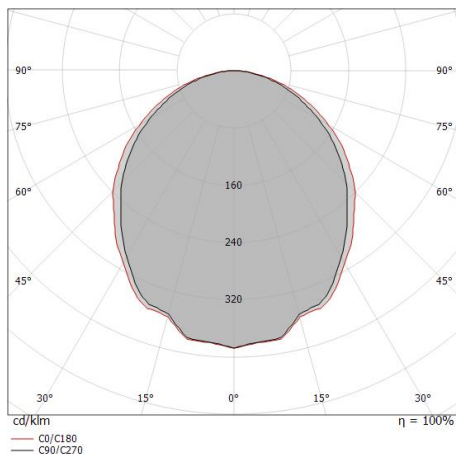
L70 B10 C0 145770h (at Tj 65 Ta 25)

UGR

UGR axial	21.8
UGR transversal	22.4
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

Optik C90/C270	100°
Optik C0/C180	106°
Light distribution simmetry	Symmetrical 2 assis



Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°)	E(C90)	E(C0)
0.5	1.19 1.33	813 109 88	49.9°	53.1°	
1.0	2.38 2.66	203 27 22	49.9°	53.1°	
1.5	3.56 4.00	90 12 10	49.9°	53.1°	
2.0	4.75 5.33	51 7 6	49.9°	53.1°	
2.5	5.94 6.66	33 4 4	49.9°	53.1°	
3.0	7.13 7.99	23 3 2	49.9°	53.1°	

Distance [m] Cone diameter [m] Illuminance [lx]

— C0/C180 (Half-peak divergence: 106.2°)
— C90/C270 (Half-peak divergence: 99.8°)

65441N

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LED Life / Failure Ratio

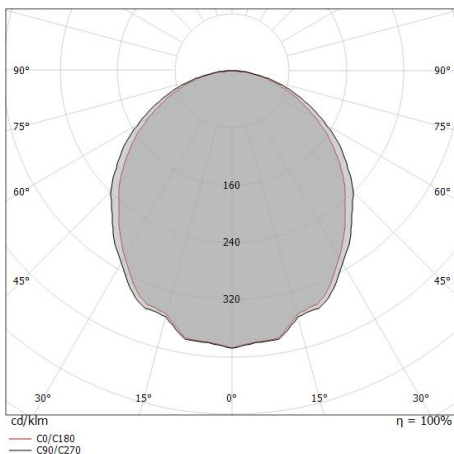
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UGR

UGR axial	22.4
UGR transversal	21.8
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

Optik C90/C270	106°
Optik C0/C180	100°
Light distribution simmetry	Symmetrical 2 assis



Distance [m]	Cone diameter [m]	illuminance [lx]
0.5	1.33 1.19	E(0°) 812 E(C90) 88 E(C0) 109
1.0	2.66 2.38	E(0°) 203 E(C90) 22 E(C0) 27
1.5	4.00 3.56	E(0°) 90 E(C90) 10 E(C0) 12
2.0	5.33 4.75	E(0°) 51 E(C90) 5 E(C0) 7
2.5	6.66 5.94	E(0°) 32 E(C90) 4 E(C0) 4
3.0	7.99 7.13	E(0°) 23 E(C90) 2 E(C0) 3

Distance [m] Cone diameter [m] illuminance [lx]

— C0/C180 (Half-peak divergence: 99.8°)
— C90/C270 (Half-peak divergence: 106.2°)

65441N

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Energieeffizienzklasse

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Illuminotechnical Eigenschaften

Light Output Ratio (LOR)	15 %
Lichtstrom (Lichtquelle)	2705 lm
Leuchten Lichtstrom	426 lm
Consumption	11 W
Leuchten Lichtausbeute	38 lm/W
Farbtemperatur	4000 K
Standard Deviation of Colour Matching	3 Step MacAdam
Farbwiedergabeindex	90 Ra
Standardumgebungstemperatur	-20 / +50°C
Typische Temperatur am Glas	40°C

LED Life / Failure Ratio

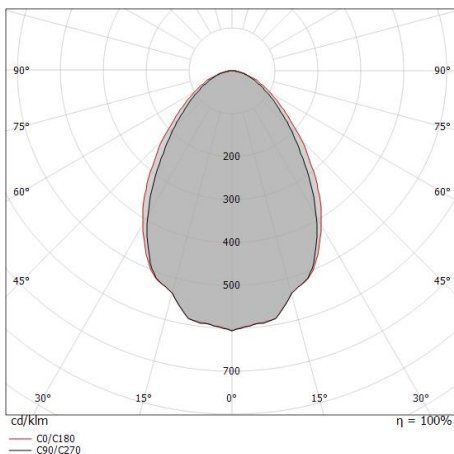
L70 B10 C0 145770h (at Tj 65 Ta 25)

UGR

UGR axial	17.3
UGR transversal	18.1
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

Optik C90/C270	72°
Optik C0/C180	78°
Light distribution simmetry	Symmetrical 2 assis



Distance [m]	Cone diameter [m]	Illuminance [lx]
0.5	0.73 0.81	E(0°) 1030 E(C90) 272 E(C0) 243
1.0	1.46 1.61	E(0°) 257 E(C90) 68 E(C0) 61
1.5	2.19 2.42	E(0°) 114 E(C90) 30 E(C0) 27
2.0	2.92 3.23	E(0°) 64 E(C90) 17 E(C0) 15
2.5	3.65 4.03	E(0°) 41 E(C90) 11 E(C0) 10
3.0	4.38 4.84	E(0°) 29 E(C90) 8 E(C0) 7

Distance [m] Cone diameter [m] Illuminance [lx]

— C0/C180 (Half-peak divergence: 77.8°)
— C90/C270 (Half-peak divergence: 72.2°)

65441N

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Leuchten Lichtstrom	426 lm
Consumption	11 W
Leuchten Lichtausbeute	38 lm/W
Farbtemperatur	4000 K
Standard Deviation of Colour Matching	3 Step MacAdam
Farbwiedergabeindex	90 Ra
Standardumgebungstemperatur	-20 / +50°C
Typische Temperatur am Glas	40°C

LED Life / Failure Ratio

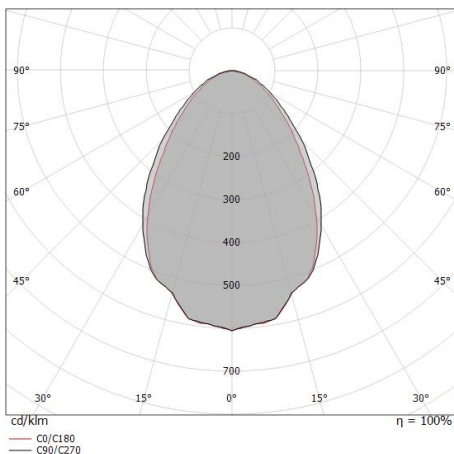
L70 B10 C0 145770h (at Tj 65 Ta 25)

UGR

UGR axial	18.1
UGR transversal	17.3
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

Optik C90/C270	78°
Optik C0/C180	72°
Light distribution simmetry	Symmetrical 2 assis



Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°)	E(C90)	E(C0)
0.5	0.81 0.73	1030 243 272	38.9°	36.1°	
1.0	1.61 1.46	257 61 68	38.9°	36.1°	
1.5	2.42 2.19	114 27 30	38.9°	36.1°	
2.0	3.23 2.92	64 15 17	38.9°	36.1°	
2.5	4.03 3.65	41 10 11	38.9°	36.1°	
3.0	4.84 4.38	29 7 8	38.9°	36.1°	

Distance [m] Cone diameter [m] Illuminance [lx]

— C0/C180 (Half-peak divergence: 72.2°)
— C90/C270 (Half-peak divergence: 77.8°)

65441N

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Illuminotechnical Eigenschaften

Light Output Ratio (LOR)	20 %
Lichtstrom (Lichtquelle)	2705 lm
Leuchten Lichtstrom	559 lm
Consumption	10 W
Leuchten Lichtausbeute	55 lm/W
Farbtemperatur	4000 K
Standard Deviation of Colour Matching	3 Step MacAdam
Farbwiedergabeindex	90 Ra
Standardumgebungstemperatur	-20 / +50°C
Typische Temperatur am Glas	40°C

LED Life / Failure Ratio

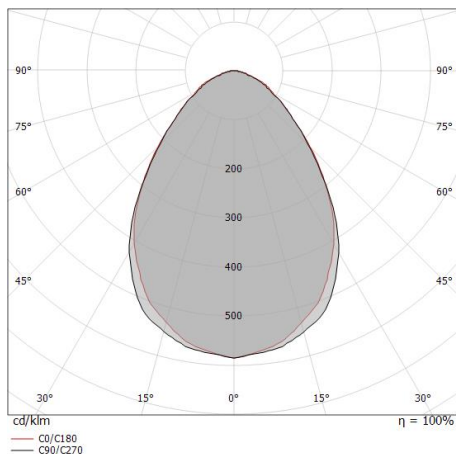
L70 B10 C0 145770h (at Tj 65 Ta 25)

UGR

UGR axial	18
UGR transversal	18.3
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

Optik C0/C180	78°
Light distribution simmetry	Symmetrical



Distance [m]	Cone diameter [m]	Illuminance [lx]
0.5	0.82 0.81	E(0°) 1309 E(C90) 39.2° 305 E(C0) 39.1° 307
1.0	1.63 1.63	E(0°) 327 E(C90) 39.2° 76 E(C0) 39.1° 77
1.5	2.45 2.44	E(0°) 145 E(C90) 39.2° 34 E(C0) 39.1° 34
2.0	3.26 3.25	E(0°) 82 E(C90) 39.2° 19 E(C0) 39.1° 19
2.5	4.08 4.06	E(0°) 52 E(C90) 39.2° 12 E(C0) 39.1° 12
3.0	4.89 4.88	E(0°) 36 E(C90) 39.2° 8 E(C0) 39.1° 9

Distance [m] Cone diameter [m] Illuminance [lx]

— C0/C180 (Half-peak divergence: 78.2°)
— C90/C270 (Half-peak divergence: 78.4°)

65441N

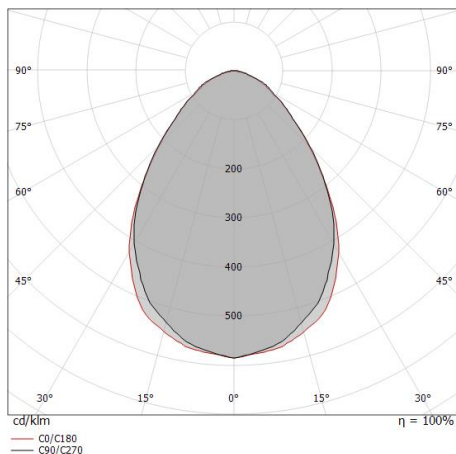
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Illuminotechnical Eigenschaften

Light Output Ratio (LOR)	20 %
Lichtstrom (Lichtquelle)	2705 lm
Leuchten Lichtstrom	559 lm
Consumption	10 W
Leuchten Lichtausbeute	55 lm/W
Farbtemperatur	4000 K
Standard Deviation of Colour Matching	3 Step MacAdam
Farbwiedergabeindex	90 Ra
Standardumgebungstemperatur	-20 / +50°C
Typische Temperatur am Glas	40°C

LED Life / Failure Ratio

L70 B10 C0 145770h (at Tj 65 Ta 25)

UGR

UGR axial	18
UGR transversal	18.3
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

Optik C0/C180	78°
Light distribution simmetry	Symmetrical

65441N

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Energieeffizienzklasse

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Illuminotechnical Eigenschaften

Light Output Ratio (LOR)	23 %
Lichtstrom (Lichtquelle)	2705 lm
Leuchten Lichtstrom	630 lm
Consumption	10 W
Leuchten Lichtausbeute	63 lm/W
Farbtemperatur	4000 K
Standard Deviation of Colour Matching	3 Step MacAdam
Farbwiedergabeindex	90 Ra
Standardumgebungstemperatur	-20 / +50°C
Typische Temperatur am Glas	40°C

LED Life / Failure Ratio

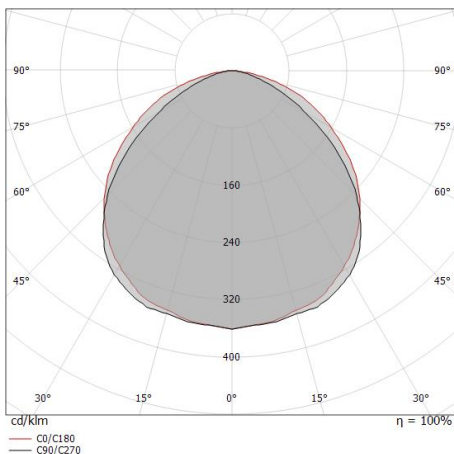
L70 B10 C0 145770h (at Tj 65 Ta 25)

UGR

UGR axial	20.7
UGR transversal	22.9
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

Optik C90/C270	106°
Optik C0/C180	114°
Light distribution simmetry	Symmetrical 2 assis



Distance [m]	Cone diameter [m]	illuminance [lx]
0.5	1.33 1.53	E(0°) 909 E(C90) 99 E(C0) 75
1.0	2.65 3.06	E(0°) 227 E(C90) 25 E(C0) 19
1.5	3.98 4.58	E(0°) 101 E(C90) 11 E(C0) 8
2.0	5.31 6.11	E(0°) 57 E(C90) 6 E(C0) 5
2.5	6.64 7.64	E(0°) 36 E(C90) 4 E(C0) 3
3.0	7.96 9.17	E(0°) 25 E(C90) 3 E(C0) 2

— C0/C180 (Half-peak divergence: 113.6°)
- - C90/C270 (Half-peak divergence: 106.0°)

65441N

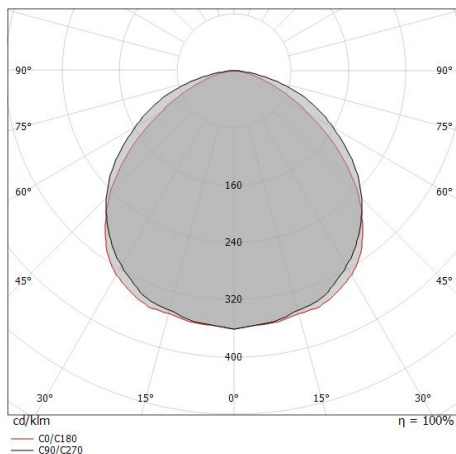
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Leuchten Lichtausbeute	63 lm/W
Farbtemperatur	4000 K
Standard Deviation of Colour Matching	3 Step MacAdam
Farbwiedergabeindex	90 Ra
Standardumgebungstemperatur	-20 / +50°C
Typische Temperatur am Glas	40°C

LED Life / Failure Ratio

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UGR axial	20.7
UGR transversal	22.9
X=4H Y=8H	S=0.25H
Reflection factor	70/50/20

OPTICAL

Optik C90/C270	114°
Optik C0/C180	106°
Light distribution symmetry	Symmetrical 2 assis



		<p>Endkappe - Quarzglas Material:Stranggepresstes Aluminium EN AB - 46100, farbe:Weiß, bearbeitungstyp :Pulverbeschichtung.</p>	<p>Code <u>62460</u></p>
		<p>Diffusor Diffusorart: diffusore satinato anti glare - all white. Material:Polymethylmethacrylat UV-beständige, bearbeitungstyp :Satinieren.</p>	<p>Code <u>83356</u></p>
		<p>Diffusor Diffusorart: diffusore satinato anti glare - all white. Material:Polymethylmethacrylat UV-beständige, bearbeitungstyp :Satinieren.</p>	<p>Code <u>83357</u></p>
		<p>Diffusor Diffusorart: diffusore satinato - all white. Material:Polymethylmethacrylat UV-beständige, bearbeitungstyp :Satinieren.</p>	<p>Code <u>83407</u></p>
		<p>Diffusor Diffusorart: diffusore satinato - all white. Material:Polymethylmethacrylat UV-beständige, bearbeitungstyp :Satinieren.</p>	<p>Code <u>83408</u></p>
		<p>Diffusor Diffusorart: diffusore satinato - all white. Material:Polymethylmethacrylat UV-beständige, bearbeitungstyp :Satinieren.</p>	<p>Code <u>83409</u></p>