













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20



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Symbol key



Colour code/Colour

	traffic white (similar RAL 9016)
	white-aluminium (similar RAL 9006)
	aluminium natural anodized
	stainless steel
	chrome
	silver
	silver grey
	aluminium
	translucent
	clear
	grit grey
	black (similar RAL 9017)

Control gear

ED	Electronic Driver, non dimmable
DALI	Electronic Driver, DALI, dimmable
DALI DT8	Electronic Driver, DALI, dimmable Change of light colour
Tast dim	dimmable via push button
NL-B	Emergency light single battery

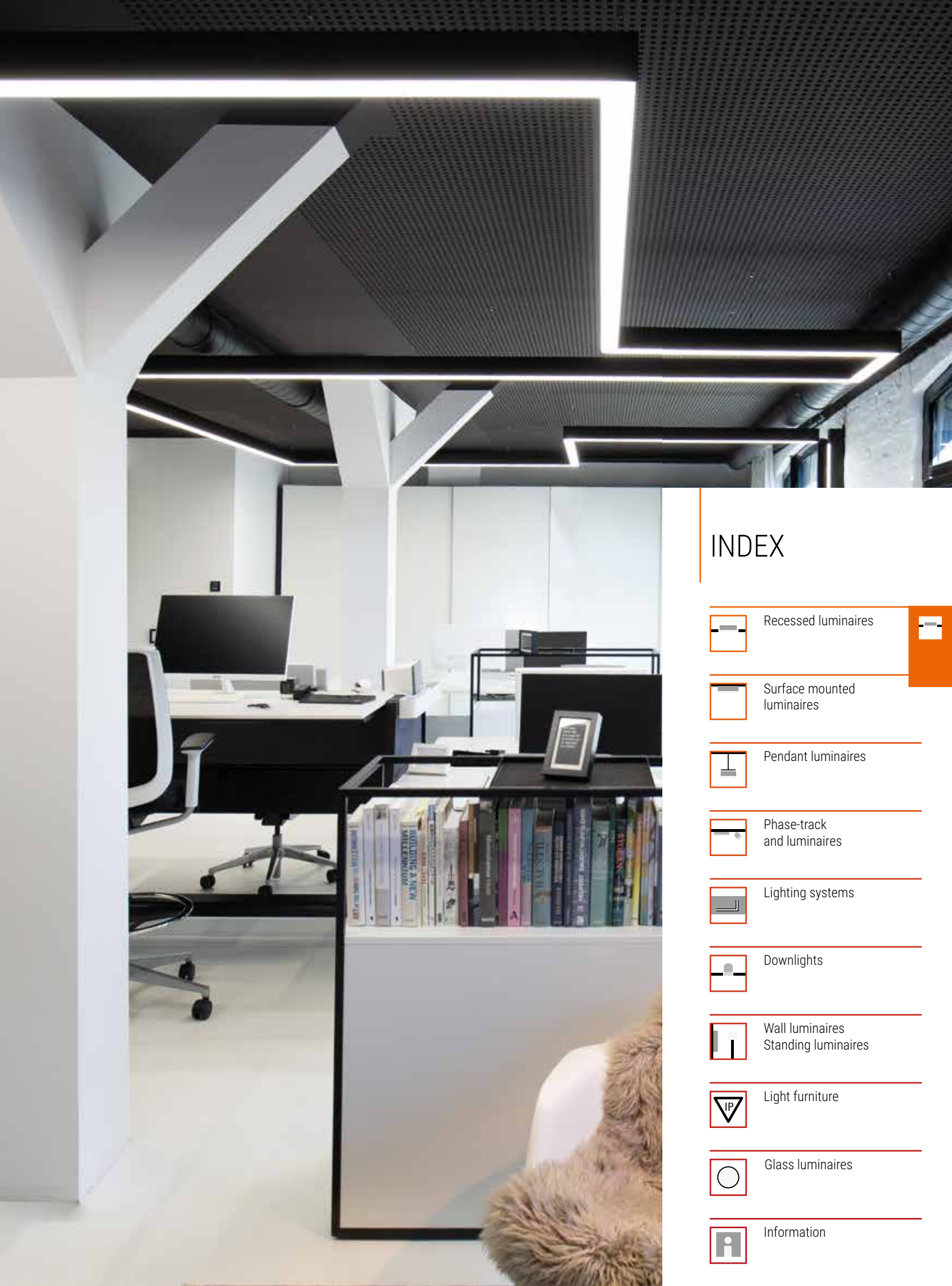
Ceiling systems

	for ceilings with visible T-rails
	for cut-out ceilings

Definition of measurement table variables

L	Length
□L	Length/Width for square luminaires
L2	Additional length
B	Width
H	Height
∅D	Diameter
FL	Length of luminaire base
FB	Width of luminaire base
FD	Diameter of luminaire base
T	Depth
KE	Cable infeed
KL	Length of luminaire head or ballast box
KB	Width of luminaire head or ballast box
KH	Height of luminaire head or ballast box
KD	Diameter of luminaire head or ballast box
A1	Fixing distance in case of single mounting
A2	Fixing distance between the luminaires in case of light run mounting
X	Distance from centre of the luminaire to the electrical feed in (x direction = length)
Y	Distance from centre of the luminaire to the electrical feed in (y direction = width)
SL	Length of cut for recessed luminaires
SB	Width of cut for recessed luminaires
SD	Diameter of cut for recessed luminaires
e	Minimum necessary depth for luminaire mounting
Psys	Lighting system performance
ML	Modul (axis) Length
MB	Modul (axis) Width
P	Wire suspension
P min/max	Min./Max. length wire suspension
DS min/max	Min./Max. ceiling thickness in case of suspended ceiling





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Recessed luminaires



Surface mounted luminaires



Pendant luminaires



Phase-track and luminaires



Lighting systems



Downlights



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Light furniture



Glass luminaires



Information





Downlights



rotara-ROET 144

P. 318



Downlights



bota 195-BESB P. 308



bota 195-BESSB P. 310



vico-ESO P. 314



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Downlights
from other chapters



lopia R-EG 300 P. 22



lopia Q-EG 330 P. 30





bota 195-BESB IP20    IK02    CE

Housing

Housing made of sheet steel with cover ring made of pressure-cast aluminium painted traffic white (similar to RAL 9016) or grit grey (similar to RAL 7032). With mounting springs for installation without tools, suitable for ceiling thicknesses 10-25mm.

Lighting technology -BESB

Direct wide distribution.

Light distribution using specular individually anodised reflector made of ultra-pure aluminium. Toolless reflector assembly via snap in spring system. For VDU workstations according to DIN EN 12464-1, $65^\circ < 1000\text{cd/m}^2$. Glare rating UGR ≤ 19 according to DIN EN 12464-1 by variant 1200lm and 1800lm.




Rated life time = L80 B10 50.000h.

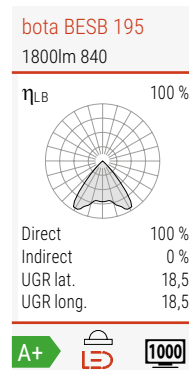
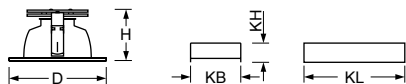
Light colour: 4000K. Optional: 3000K. Other light colours on request.








Miscellaneous

External supply unit wired with luminaire ready for operation. Electrical connection via three-pole or for dimmable luminaires five-pole terminal with plug-in contact.



Type	LED Specification	Ceiling	DxH	KL	KB	KH	SD	e min.	DS min./max.
bota-BESB 195	LED 1200		246 x 113	167	146	48	229	165	10-25
	LED 1800		246 x 113	167	146	48	229	165	10-25
	LED 2700		246 x 117	167	146	48	229	165	10-25





Type	Colour	LED Specification	P _{sys} (W)	ED	DALI	 kg
bota-BESB 195		LED 1200lm 840	9	879 0314 120		0,7
		LED 1200lm 840	9	879 0314 125		0,7
		LED 1800lm 840	15	879 0334 120	879 0336 620	0,8
		LED 1800lm 840	15	879 0334 125	879 0336 625	0,8
		LED 2700lm 840	23	879 0354 120	879 0356 620	1,0
		LED 2700lm 840	23	879 0354 125	879 0356 625	1,0

► Please refer to the current data for LED luminaires at www.lichtwerk.de



bota 195-BESSB

IP54  IK02  $\nearrow \begin{smallmatrix} 0.20J \\ 0.20Nm \end{smallmatrix}$   

Housing

Housing made of sheet steel with cover ring made of pressure-cast aluminium painted traffic white (similar to RAL 9016) or grit grey (similar to RAL 7032). With translucent cover made of safety glass IP54. Including mounting springs for installation without tools, suitable for ceiling thicknesses 10-25mm.

Lighting technology -BESSB

Direct wide distribution.

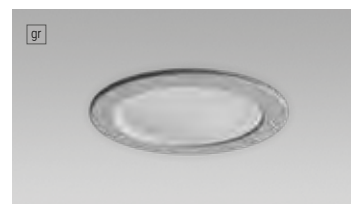
Light distribution via micro-structured, individually anodised reflector of ultra-pure aluminium. Toolless reflector assembly via snap in spring system.




Rated life time = L80 B10 50.000h.

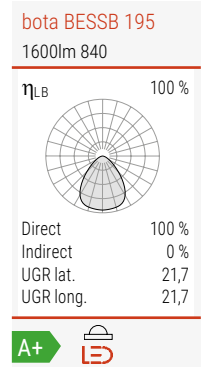
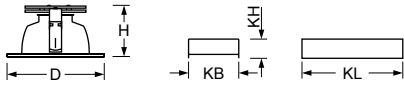
Light colour: 4000K. Optional: 3000K. Other light colours on request.








Miscellaneous

External supply unit wired with luminaire ready for operation. Electrical connection via three-pole or for dimmable luminaires five-pole terminal with plug-in contact.



Type	LED Specification	Ceiling	DxH	KL	KB	KH	SD	e min.	DS min./max.
bota-BESSB 195	LED 1200		246 x 113	167	146	48	229	165	10-25
	LED 1800		246 x 113	167	146	48	229	165	10-25
	LED 2700		246 x 117	167	146	48	229	165	10-25



Type	Colour	LED Specification	P _{sys} (W)	ED	DALI	 kg
bota-BESSB 195		LED 1100lm 840	9	879 1314 120		1,2
		LED 1100lm 840	9	879 1314 125		1,2
		LED 1600lm 840	15	879 1334 120	879 1336 620	1,0
		LED 1600lm 840	15	879 1334 125	879 1336 625	1,0
		LED 2300lm 840	23	879 1354 120	879 1356 620	1,3
		LED 2300lm 840	23	879 1354 125	879 1356 625	1,3

► Please refer to the current data for LED luminaires at www.lichtwerk.de









vico-ESO

IP44    

Housing

Housing made of pressure-cast aluminium, painted traffic white (similar to RAL 9016). Aluminium heat sink for effective passive cooling and recessed opal diffuser panel to break up the ceiling appearance. With fixing springs for installation without tools, suitable for ceiling thickness of 10mm-20mm.

Lighting technology -ESO

Direct wide distribution.

Light distribution via satined opal diffuser.




Rated life time = L80 B10 50.000h.

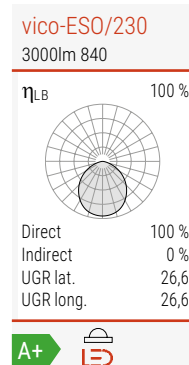
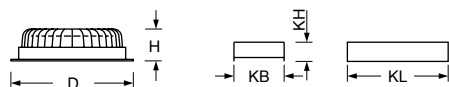
Light colour: 4000K or 3000K. Other light colours on request.








Miscellaneous

External driver, wired with luminaire ready for operation.

Electrical connection via 0,7m long connection line, 2x0,75mm²
or for dimmable luminaires 2x0,5mm² + 2x0,75mm².

Type	Ceiling	DxH	KL	KB	KH	e min.	SD	DS min./max.
vico-ESO/140		140 x 45	240	30	21	95	125	10-20
vico-ESO/190		190 x 59	240	30	21	110	175	10-20
vico-ESO/230		230 x 59	240	30	21	110	215	10-20



Type	Colour	LED Specification	P _{sys} (W)	ED	DALI	
vico-ESO/140		LED 1500lm 830	16	379 1114 140		0,6
		LED 1500lm 840	16	379 1104 140		0,6
vico-ESO/190		LED 2000lm 830	21	379 2114 140	379 2116 640	0,9
		LED 2000lm 840	21	379 2104 140	379 2106 640	0,9
vico-ESO/230		LED 3000lm 830	31	379 3114 140	379 3116 640	1,2
		LED 3000lm 840	31	379 3104 140	379 3106 640	1,2

► Please refer to the current data for LED luminaires at www.lichtwerk.de







rotara-ROET/144

IP20      

Housing

Housing made of pressure-cast aluminium, heat sink for effective passive cooling; powder-coated; round body. Reflector unit gimbal-mounted, with fixing springs for installation without tools, suitable for ceiling thickness 10mm-20mm.

Lighting technology -ROET

Direct narrow distribution.

Light distribution via matt segmented reflector made of highly-efficient MIRO-SILVER aluminium with an reflection ratio of 99,8%; beam angle 30°; clear safety glass.

For VDU workstations $65^{\circ} < 3000\text{cd/m}^2$, $\text{UGR} \leq 19$ according to DIN EN 12464-1.

Rated life time = L80 B10 50.000h.

Light colour: 4000K or 3000K. Other light colours on request.


Miscellaneous

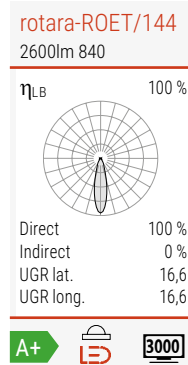
External driver, wired with luminaire ready for operation.

Electrical connection via 0,7m long connection line, $2 \times 0,75\text{mm}^2$ or for dimmable luminaires $2 \times 0,5\text{mm}^2 + 2 \times 0,75\text{mm}^2$.

Accessories

Replacement reflector 40°, highly specular faceted must be ordered separately.



Type	Ceiling	DxH	KL	KB	KH	e	SD	DS min./max.
ROET/144		138x94	115	53	23	140	120	10-20






Replacement reflector



RO/144-LED 40°

Type	LED Specification		P _{Sys} (W)	Colour	ED	DALI	
rotara-ROET/144	LED 2500lm 830	30°	23	<input type="checkbox"/>	337 0034 130	337 0036 630	0,4
	LED 2600lm 840	30°	23	<input type="checkbox"/>	337 0044 130	337 0046 630	0,4

► Please refer to the current data for LED luminaires at www.lichtwerk.de

Accessories	Type	Colour	Material	Details	Item-number	
	Reflector	RO/144-LED 40°		Al	Beam angle 40°, for ROE./144	321 4014 140
						0,1







rotara-ROET/160

IP20     

Housing

Housing made of pressure-cast aluminium, heat sink for effective passive cooling; powder-coated; round body. Reflector unit gimbal-mounted, with fixing springs for installation without tools, suitable for ceiling thickness 10mm-20mm.

Lighting technology -ROET

Direct narrow distribution.

Light distribution via highly specular faceted reflector made of highly-efficient MIRO-SILVER aluminium with an reflection ratio of 99,8%; beam angle 30°; clear safety glass.

For VDU workstations $65^{\circ} < 1000\text{cd/m}^2$, $\text{UGR} \leq 19$ according to DIN EN 12464-1.

Rated life time = L80 B10 50.000h.

Light colour: 4000K or 3000K. Other light colours on request.

Miscellaneous


External driver, wired with luminaire ready for operation.

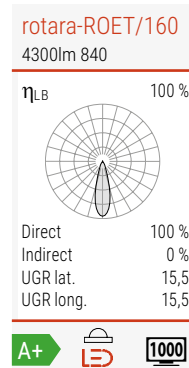
Electrical connection via 0,7m long connection line, $2 \times 0,75\text{mm}^2$

or for dimmable luminaires $2 \times 0,5\text{mm}^2 + 2 \times 0,75\text{mm}^2$.

Accessories

Replacement reflector 60°, matt segmented must be ordered separately.

Type	Ceiling	DxH	KL	KB	KH	e	SD	DS min./max.
ROET/160		182x119	170	45	35	160	170	10-20






Replacement reflector



RO/160-LED 60° 

Type	LED Specification		P _{sys} (W)	Colour	ED	DALI	
rotara-ROET/160	LED 4100lm 830	30°	36		337 0054 130	337 0056 630	1,7
	LED 4300lm 840	30°	36		337 0064 130	337 0066 630	1,7

► Please refer to the current data for LED luminaires at www.lichtwerk.de

Accessories	Type	Colour	Material	Details	Item-number	
	Reflector		Al	Beam angle 60°, for ROE./160	321 5014 140	0,1







rotara-ROEQT/144

IP20      

Housing

Housing made of pressure-cast aluminium, heat sink for effective passive cooling; powder-coated; square body. Reflector unit gimbal-mounted, with fixing springs for installation without tools, suitable for ceiling thickness 10mm-20mm.

Lighting technology -ROEQT

Direct narrow distribution.

Light distribution via matt segmented reflector made of highly-efficient MIRO-SILVER aluminium with an reflection ratio of 99,8%; beam angle 30°; clear safety glass.

For VDU workstations $65^{\circ} < 3000\text{cd/m}^2$, $\text{UGR} \leq 19$ according to DIN EN 12464-1.

Rated life time = L80 B10 50.000h.

Light colour: 4000K or 3000K. Other light colours on request.

Miscellaneous

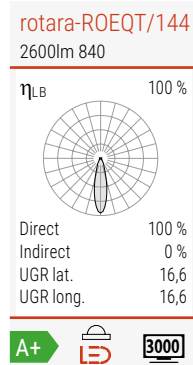
External driver, wired with luminaire ready for operation.

Electrical connection via 0,7m long connection line, $2 \times 0,75\text{mm}^2$ or on dimmable luminaires $2 \times 0,5\text{mm}^2 + 2 \times 0,75\text{mm}^2$.

Accessories


Replacement reflector 40°, highly specular faceted must be ordered separately.

Type	Ceiling	LxBxH	KL	KB	KH	e	SLxSB	DS min./max.
ROEQT/144		151x151x94	115	53	23	140	135x135	10-20






Replacement reflector



RO/144-LED 40° 

Type	LED Specification		P _{sys} (W)	Colour	ED	DALI	
rotara-ROEQT/144	LED 2500lm 830	30°	23		338 0034 130	338 0036 630	0,4
	LED 2600lm 840	30°	23		338 0044 130	338 0046 630	0,4

► Please refer to the current data for LED luminaires at www.lichtwerk.de

Accessories	Type	Colour	Material	Details	Item-number	
	Reflector	RO/144-LED 40° 	Al	Beam angle 40°, for ROE./144	321 4014 140	0,1







rotara-ROEQT/160

IP20      

Housing

Housing made of pressure-cast aluminium, heat sink for effective passive cooling; powder-coated; square body. Reflector unit gimbal-mounted, with fixing springs for installation without tools, suitable for ceiling thickness 10mm-20mm.

Lighting technology -ROEQT

Direct narrow distribution.

Light distribution via highly specular faceted reflector made of highly-efficient MIRO-SILVER aluminium with an reflection ratio of 99,8%; beam angle 30°; clear safety glass.

For VDU workstations $65^\circ < 1000\text{cd/m}^2$, $\text{UGR} \leq 19$ according to DIN EN 12464-1.

Rated life time = L80 B10 50.000h.

Light colour: 4000K or 3000K. Other light colours on request.


Miscellaneous

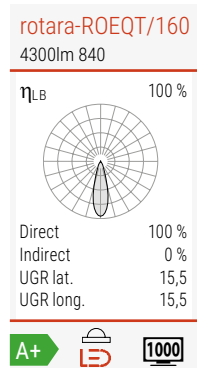
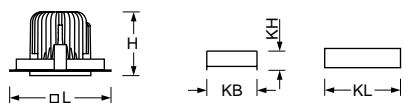
External driver, wired with luminaire ready for operation.

Electrical connection via 0,7m long connection line, $2 \times 0,75\text{mm}^2$ or on dimmable luminaires $2 \times 0,5\text{mm}^2 + 2 \times 0,75\text{mm}^2$.

Accessories

Replacement reflector 60°, matt segmented must be ordered separately.

Type	Ceiling	LxBxH	KL	KB	KH	e	SLxSB	DS min./max.
ROEQT/160		175x175x119	170	45	35	160	155x160	10-20






Replacement reflector



RO/160-LED 60° 

Type	LED Specification		P _{Sys} (W)	Colour	ED	DALI	
rotara-ROEQT/160	LED 4100lm 830	30°	36		338 0054 130	338 0056 630	1,7
	LED 4300lm 840	30°	36		338 0064 130	338 0066 630	1,7

► Please refer to the current data for LED luminaires at www.lichtwerk.de

Accessories	Type	Colour	Material	Details	Item-number	
	Reflector RO/160-LED 60°		Al	Beam angle 60°, for ROE./160	321 5014 140	0,1



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Because of the dynamics in the technical development especially in the field of LED modules and their drivers, the information in this paper can only be a snapshot of the current state and are therefore legally not binding. Please refer to our web site for current product specifications.

We point out that the orderer recognises our delivery and payment conditions unless he/she objects in writing when sending his/her order.

www.lichtwerk.de



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