

# MINO 60

suspended

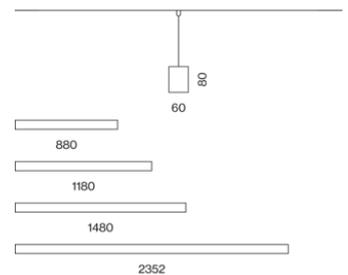
**EN** Luminaire housing from extruded aluminium profile, angular design; no visible screws; surface powder coated; luminaire profile for mounting available in advance; remaining luminaire components mounted without tools; pendant fitting with cable suspension; with integrated toolless suspension height adjustment; spring clip attachment to the luminaire; freely positionable; incl. feeder cable; light inset consisting of highly reflective coated extruded profile for improved thermal management; HPO (High Performance Opal) cover for uniform illumination; micro prismatic PMMA diffuser incl. diffuser film for homogeneous illumination and reduced luminance; energy-efficient LEDs with very good colour rendering

**DE** Leuchtenkörper aus Aluminiumstrangpressprofil, kantige Ausführung; keine sichtbaren Schrauben; Oberfläche pulverbeschichtet; Leuchtenprofil für Montage vorab lieferbar; restliche Leuchtenkomponenten werkzeuglos montierbar; abgependelt mit Seilabhängung; werkzeuglose Höhenverstellung an der Leuchte; Befestigung an der Leuchte mittels Federclips; frei positionierbar; inkl. Einspeiseleitung; Lichteinsatz bestehend aus hochreflektierend lackiertem Strangpressprofil für verbessertes Thermomanagement; HPO (High Performance Opal) Abdeckung für homogene Ausleuchtung; mikroprismatische PMMA-Abdeckung inkl. Diffusorfolie zur Reduktion der Leuchtdichte bei homogener Ausleuchtung; energieeffiziente LEDs mit sehr guter Farbwiedergabe

## Quickinfo

3000 K, 4000 K, tunable white  
 2700 - 6500 K  
 CRI ≥ 80, CRI ≥ 90 / 3 SDCM  
 (initial MacAdam)  
 UGR ≤ 19  
 bis zu 2,710 lm/m  
 bis zu 141 lm/W  
 L90 / 50000 h  
 DALI-2, nicht dimmbar  
 High Performance Opal,  
 Microprismatic  
 IP20

## Types



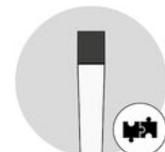
## Farbe



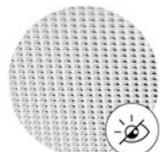
## Lichtverteilung



DiA® standards  
 251, 252, 253



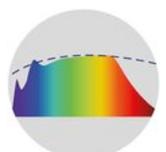
system solution



microprismatic  
 UGR ≤ 19



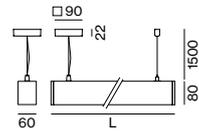
tunable white  
 2700 - 6500 K



CRI ≥ 98  
 XPECTRUM  
 (optional)



## MINO 60 suspended



### OPAL | MID LUMEN non DIM

SYSTEM	LENGTH	COLOUR TEMP.	CRI ≥	LUM. FLUX	EFFICACY	ORDER CODE		
10.3 W	880 mm	3000 K	80	1230 lm	119 lm/W	0 4 6 - 4 2 L 3 5 1 <input checked="" type="checkbox"/> H		
			90	1060 lm	103 lm/W	0 4 6 - 4 2 L 3 0 1 <input checked="" type="checkbox"/> H		
		4000 K	80	1400 lm	136 lm/W	0 4 6 - 4 2 L 3 6 1 <input checked="" type="checkbox"/> H		
			90	1150 lm	112 lm/W	0 4 6 - 4 2 L 3 1 1 <input checked="" type="checkbox"/> H		
		13.3 W	1180 mm	3000 K	80	1640 lm	123 lm/W	0 4 6 - 4 2 L 4 5 1 <input checked="" type="checkbox"/> H
					90	1420 lm	107 lm/W	0 4 6 - 4 2 L 4 0 1 <input checked="" type="checkbox"/> H
4000 K	80			1870 lm	141 lm/W	0 4 6 - 4 2 L 4 6 1 <input checked="" type="checkbox"/> H		
	90			1530 lm	115 lm/W	0 4 6 - 4 2 L 4 1 1 <input checked="" type="checkbox"/> H		
16.6 W	1480 mm	3000 K	80	2060 lm	124 lm/W	0 4 6 - 4 2 L 5 5 1 <input checked="" type="checkbox"/> H		
			90	1770 lm	107 lm/W	0 4 6 - 4 2 L 5 0 1 <input checked="" type="checkbox"/> H		
		4000 K	80	2340 lm	141 lm/W	0 4 6 - 4 2 L 5 6 1 <input checked="" type="checkbox"/> H		
			90	1910 lm	115 lm/W	0 4 6 - 4 2 L 5 1 1 <input checked="" type="checkbox"/> H		
		26.6 W	2352 mm	3000 K	80	3290 lm	124 lm/W	0 4 6 - 4 2 L 8 5 1 <input checked="" type="checkbox"/> H
					90	2840 lm	107 lm/W	0 4 6 - 4 2 L 8 0 1 <input checked="" type="checkbox"/> H
4000 K	80			3740 lm	141 lm/W	0 4 6 - 4 2 L 8 6 1 <input checked="" type="checkbox"/> H		
	90			3060 lm	115 lm/W	0 4 6 - 4 2 L 8 1 1 <input checked="" type="checkbox"/> H		

### MICROPRISMATIC | MID LUMEN non DIM

SYSTEM	LENGTH	COLOUR TEMP.	CRI ≥	LUM. FLUX	EFFICACY	ORDER CODE
10.3 W	880 mm	3000 K	80	1070 lm	104 lm/W	0 4 6 - 4 2 L 3 5 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
			90	925 lm	90 lm/W	0 4 6 - 4 2 L 3 0 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
		4000 K	80	1220 lm	118 lm/W	0 4 6 - 4 2 L 3 6 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
			90	999 lm	97 lm/W	0 4 6 - 4 2 L 3 1 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
13.3 W	1180 mm	3000 K	80	1430 lm	108 lm/W	0 4 6 - 4 2 L 4 5 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
			90	1230 lm	92 lm/W	0 4 6 - 4 2 L 4 0 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
		4000 K	80	1630 lm	123 lm/W	0 4 6 - 4 2 L 4 6 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
			90	1330 lm	100 lm/W	0 4 6 - 4 2 L 4 1 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
16.6 W	1480 mm	3000 K	80	1790 lm	108 lm/W	0 4 6 - 4 2 L 5 5 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
			90	1540 lm	93 lm/W	0 4 6 - 4 2 L 5 0 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
		4000 K	80	2040 lm	123 lm/W	0 4 6 - 4 2 L 5 6 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
			90	1670 lm	101 lm/W	0 4 6 - 4 2 L 5 1 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
26.6 W	2352 mm	3000 K	80	2860 lm	108 lm/W	0 4 6 - 4 2 L 8 5 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
			90	2470 lm	93 lm/W	0 4 6 - 4 2 L 8 0 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
		4000 K	80	3260 lm	123 lm/W	0 4 6 - 4 2 L 8 6 1 <input checked="" type="checkbox"/> <input type="checkbox"/>
			90	2670 lm	100 lm/W	0 4 6 - 4 2 L 8 1 1 <input checked="" type="checkbox"/> <input type="checkbox"/>

### Order options

CONTROL		COLOUR		COVER OPTION	
non DIM	1	white aluminium RAL 9006	G	microprismatic (glare reduced)	G
DALI-2	3	pure white RAL 9010	7	microprismatic	Z
		jet black RAL 9005	8		

**OPAL | HIGH LUMEN**

SYSTEM	LENGTH	COLOUR TEMP.	CRI ≥	LUM. FLUX	EFFICACY	ORDER CODE
17.5 W	880 mm	3000 K	80	2070 lm	118 lm/W	0 4 6 - 4 2 M 3 5 <input checked="" type="checkbox"/> <input type="checkbox"/> H
			90	1790 lm	102 lm/W	0 4 6 - 4 2 M 3 0 <input checked="" type="checkbox"/> <input type="checkbox"/> H
		4000 K	80	2360 lm	135 lm/W	0 4 6 - 4 2 M 3 6 <input checked="" type="checkbox"/> <input type="checkbox"/> H
			90	1930 lm	110 lm/W	0 4 6 - 4 2 M 3 1 <input checked="" type="checkbox"/> <input type="checkbox"/> H
19.0 W	880 mm	tunable w.	80	2260 lm	119 lm/W	0 4 6 - 4 2 3 3 D 3 <input checked="" type="checkbox"/> <input type="checkbox"/> H
23.3 W	1180 mm	3000 K	80	2760 lm	118 lm/W	0 4 6 - 4 2 M 4 5 <input checked="" type="checkbox"/> <input type="checkbox"/> H
			90	2380 lm	102 lm/W	0 4 6 - 4 2 M 4 0 <input checked="" type="checkbox"/> <input type="checkbox"/> H
		4000 K	80	3150 lm	135 lm/W	0 4 6 - 4 2 M 4 6 <input checked="" type="checkbox"/> <input type="checkbox"/> H
			90	2570 lm	110 lm/W	0 4 6 - 4 2 M 4 1 <input checked="" type="checkbox"/> <input type="checkbox"/> H
25.3 W	1180 mm	tunable w.	80	3010 lm	119 lm/W	0 4 6 - 4 2 3 4 D 3 <input checked="" type="checkbox"/> <input type="checkbox"/> H
29.1 W	1480 mm	3000 K	80	3460 lm	119 lm/W	0 4 6 - 4 2 M 5 5 <input checked="" type="checkbox"/> <input type="checkbox"/> H
			90	2980 lm	102 lm/W	0 4 6 - 4 2 M 5 0 <input checked="" type="checkbox"/> <input type="checkbox"/> H
		4000 K	80	3930 lm	135 lm/W	0 4 6 - 4 2 M 5 6 <input checked="" type="checkbox"/> <input type="checkbox"/> H
			90	3220 lm	111 lm/W	0 4 6 - 4 2 M 5 1 <input checked="" type="checkbox"/> <input type="checkbox"/> H
31.0 W	1480 mm	tunable w.	80	3760 lm	121 lm/W	0 4 6 - 4 2 3 5 D 3 <input checked="" type="checkbox"/> <input type="checkbox"/> H
45.0 W	2352 mm	3000 K	80	5530 lm	123 lm/W	0 4 6 - 4 2 M 8 5 <input checked="" type="checkbox"/> <input type="checkbox"/> H
			90	4770 lm	106 lm/W	0 4 6 - 4 2 M 8 0 <input checked="" type="checkbox"/> <input type="checkbox"/> H
		4000 K	80	6290 lm	140 lm/W	0 4 6 - 4 2 M 8 6 <input checked="" type="checkbox"/> <input type="checkbox"/> H
			90	5150 lm	114 lm/W	0 4 6 - 4 2 M 8 1 <input checked="" type="checkbox"/> <input type="checkbox"/> H
49.0 W	2352 mm	tunable w.	80	6020 lm	123 lm/W	0 4 6 - 4 2 3 8 D 3 <input checked="" type="checkbox"/> <input type="checkbox"/> H

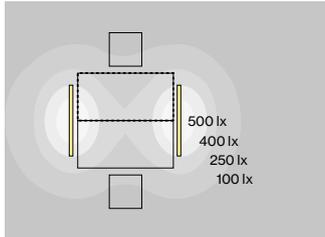
**MICROPRISMATIC | HIGH LUMEN**

SYSTEM	LENGTH	COLOUR TEMP.	CRI ≥	LUM. FLUX	EFFICACY	ORDER CODE
17.5 W	880 mm	3000 K	80	1800 lm	103 lm/W	0 4 6 - 4 2 M 3 5 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
			90	1560 lm	89 lm/W	0 4 6 - 4 2 M 3 0 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
		4000 K	80	2050 lm	117 lm/W	0 4 6 - 4 2 M 3 6 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
			90	1680 lm	96 lm/W	0 4 6 - 4 2 M 3 1 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
19.0 W	880 mm	tunable w.	80	1960 lm	103 lm/W	0 4 6 - 4 2 3 3 D 3 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
23.3 W	1180 mm	3000 K	80	2410 lm	103 lm/W	0 4 6 - 4 2 M 4 5 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
			90	2070 lm	89 lm/W	0 4 6 - 4 2 M 4 0 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
		4000 K	80	2740 lm	118 lm/W	0 4 6 - 4 2 M 4 6 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
			90	2240 lm	96 lm/W	0 4 6 - 4 2 M 4 1 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
25.3 W	1180 mm	tunable w.	80	2620 lm	104 lm/W	0 4 6 - 4 2 3 4 D 3 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
29.1 W	1480 mm	3000 K	80	3010 lm	103 lm/W	0 4 6 - 4 2 M 5 5 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
			90	2590 lm	89 lm/W	0 4 6 - 4 2 M 5 0 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
		4000 K	80	3420 lm	118 lm/W	0 4 6 - 4 2 M 5 6 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
			90	2800 lm	96 lm/W	0 4 6 - 4 2 M 5 1 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
31.0 W	1480 mm	tunable w.	80	3270 lm	105 lm/W	0 4 6 - 4 2 3 5 D 3 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
45.0 W	2352 mm	3000 K	80	4810 lm	107 lm/W	0 4 6 - 4 2 M 8 5 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
			90	4150 lm	92 lm/W	0 4 6 - 4 2 M 8 0 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
		4000 K	80	5480 lm	122 lm/W	0 4 6 - 4 2 M 8 6 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
			90	4480 lm	100 lm/W	0 4 6 - 4 2 M 8 1 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H
49.0 W	2352 mm	tunable w.	80	5240 lm	107 lm/W	0 4 6 - 4 2 3 8 D 3 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> H

**Order options**

CONTROL		COLOUR		COVER OPTION	
non DIM	1	white aluminium RAL 9006	G	microprismatic (glare reduced)	G
DALI-2	3	pure white RAL 9010	7	microprismatic	Z
		jet black RAL 9005	8		

## Planning Information



**MINO 60** suspended, 15.3W,  
4000 K, direct

### ROOM VALUES

Room dimensions	5.4 × 4 × 2.8m
Reflection factor	0.7   0.5   0.2
Maintenance factor	0.8
Suspension height	2.25m

### CALCULATION SURFACE .....

Surface dimensions	1.6 × 0.8m
Surface height	0.75m
Average illuminance ( $E_m$ )	> 500lx
Uniformity ( $U_o$ )	> 0.6

### GLARE EVALUATION

Table Classification	X=4H   Y=8H   S=0.25H
UGR transversal	≤ 19
UGR axial	≤ 19

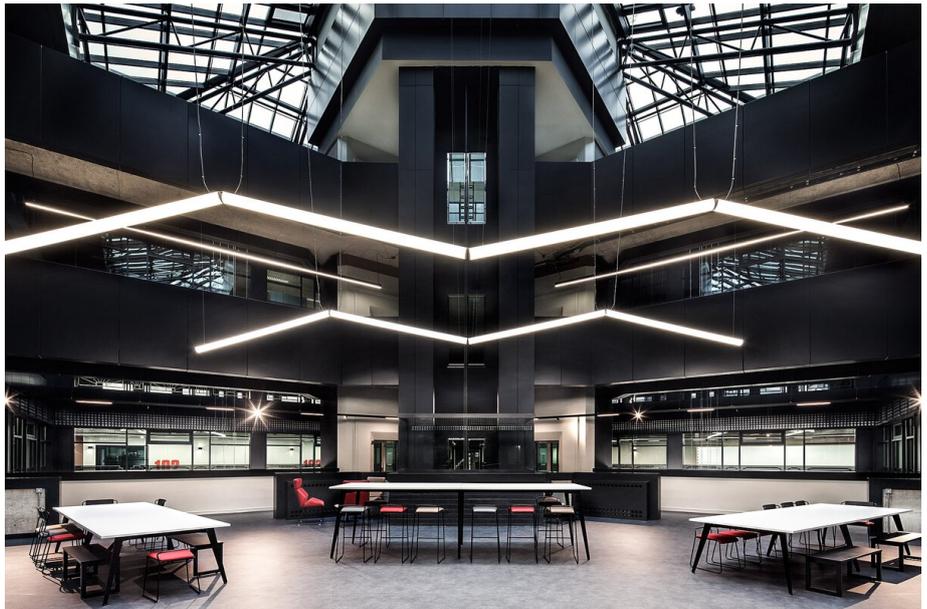


# University Academy 92, Manchester

Vereinigtes Königreich

**Architekt**  
BDP Architecture

**Fotograf**  
David Barbour



## Verwendete Produkte



**TUBO 100** suspended



**MINO 60** suspended



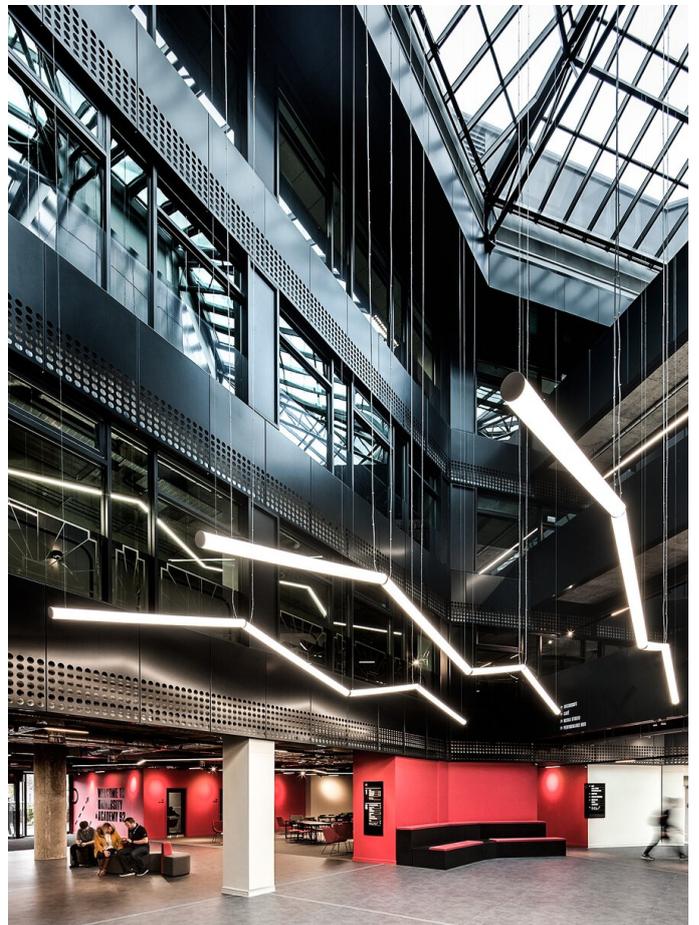
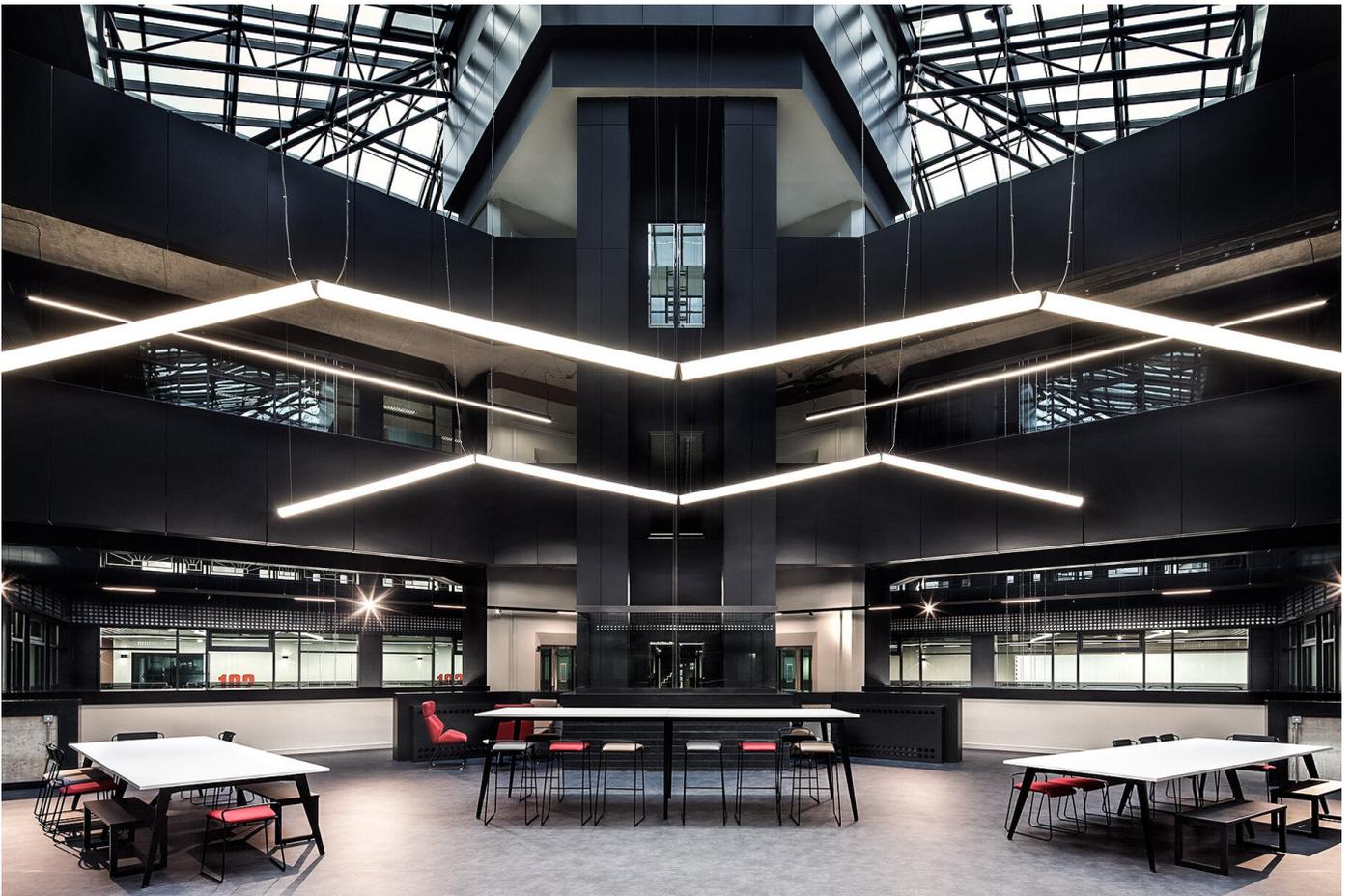
**MOVE IT 25** surface /  
suspended system



**OPAL HIGH  
PERFORMANCE  
MOVE IT 25**



**JUST 55 MOVE IT**  
25 / 25 S / 45







# Office IPAI, Heilbronn

Deutschland

**Architekt**  
Süd.Com GmbH

**Fotograf**  
Süd.Com GmbH



## Verwendete Produkte



**MINO 60 suspended**



**MINO 60 CURVE**  
ceiling / suspended  
system



**MINO 60 ceiling /  
suspended system**

