

Last information update: June 2023

Product configuration: N190

N190: medium body - warm white - flood optic

**Product code**N190: medium body - warm white - flood optic **Attention! Code no longer in production****Technical description**

Adjustable spotlight with adapter for installation on mains voltage track for high-performance LED source with CoB technology, with monochromatic Warm White (3000K) emission. Product inclusive of OPTIBEAM interchangeable reflector with flood optic. Electronic control gear housed in the power supply box positioned vertically with respect to the optical compartment. Optical compartment made of die-cast aluminium, easily customisable thermoplastic power supply box. Features 360° rotation around the vertical axis and 90° inclination with respect to the horizontal axis. Passive cooling system. Possibility of installing a refractor, to be ordered separately, for elliptical light beam distribution.

Installation

Mounted on electrified track or on base

Colour

White (01) | Black (04)

Weight (Kg)

1.26

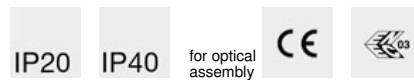
Mounting

three circuit track|ceiling surface

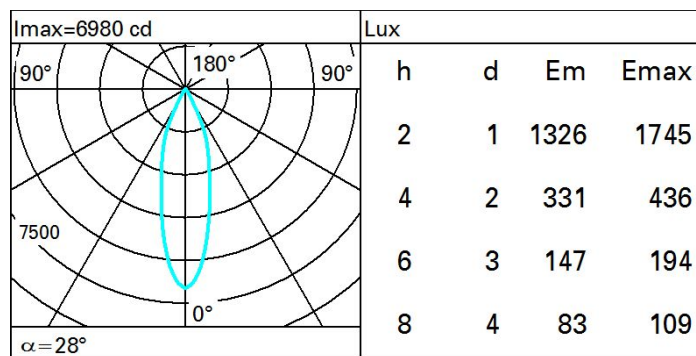
Wiring

Product inclusive of electronic components

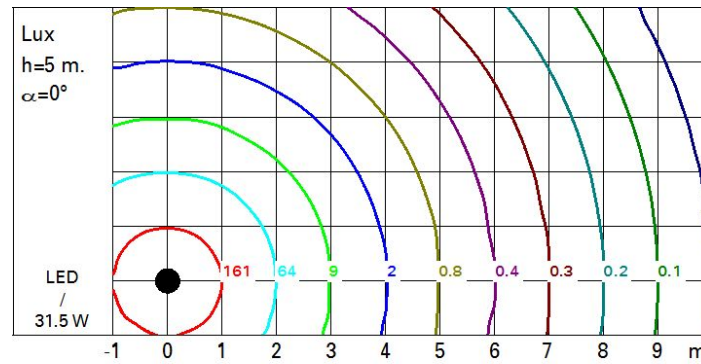
Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	2305	CRI:	80
W system:	31.5	Colour temperature [K]:	3000
lm source:	3000	MacAdam Step:	3
W source:	29	Life Time LED 1:	50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	73.2	Ballast losses [W]:	2.5
lm in emergency mode:	-	Lamp code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of lamps for optical assembly:	1
Light Output Ratio (L.O.R.) [%]:	77	ZVEI Code:	LED
Beam angle [°]:	28°	Number of optical assemblies:	1

Polar

Isolux



UGR diagram

Corrected UGR values (at 3000 lm bare lamp luminous flux)												
Reflect.:		viewed crosswise					viewed endwise					
ceiling		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
Room dim												
x	y											
2H	2H	12.8	13.4	13.0	13.6	13.8	12.8	13.4	13.0	13.6	13.8	
	3H	14.0	14.5	14.3	14.8	15.1	13.0	13.6	13.4	13.9	14.1	
	4H	14.7	15.2	15.0	15.5	15.8	13.2	13.7	13.5	14.0	14.3	
	6H	15.4	15.8	15.7	16.1	16.5	13.2	13.7	13.6	14.0	14.4	
	8H	15.6	16.1	16.0	16.4	16.8	13.3	13.7	13.6	14.0	14.4	
	12H	15.8	16.2	16.2	16.6	16.9	13.2	13.7	13.6	14.0	14.4	
4H	2H	13.2	13.7	13.5	14.0	14.3	14.7	15.2	15.0	15.5	15.8	
	3H	14.7	15.1	15.0	15.4	15.8	15.2	15.7	15.6	16.0	16.4	
	4H	15.5	15.9	15.9	16.3	16.7	15.5	15.9	15.9	16.3	16.7	
	6H	16.4	16.8	16.9	17.2	17.6	15.8	16.1	16.2	16.5	17.0	
	8H	16.8	17.1	17.2	17.5	18.0	15.9	16.2	16.3	16.6	17.1	
	12H	17.0	17.3	17.4	17.7	18.1	15.9	16.2	16.4	16.7	17.1	
8H	4H	15.9	16.2	16.3	16.6	17.1	16.8	17.1	17.2	17.5	18.0	
	6H	17.0	17.2	17.5	17.7	18.2	17.2	17.5	17.7	17.9	18.4	
	8H	17.4	17.7	17.9	18.1	18.6	17.4	17.7	17.9	18.1	18.6	
	12H	17.7	17.9	18.2	18.4	18.9	17.6	17.8	18.1	18.3	18.8	
12H	4H	15.9	16.2	16.4	16.7	17.1	17.0	17.3	17.4	17.7	18.1	
	6H	17.1	17.3	17.6	17.8	18.3	17.5	17.7	18.0	18.2	18.7	
	8H	17.6	17.8	18.1	18.3	18.8	17.7	17.9	18.2	18.4	18.9	
Variations with the observer position at spacing:												
S =		1.0H	0.7 / -0.3				0.7 / -0.3					
		1.5H	1.7 / -0.5				1.7 / -0.5					
		2.0H	2.7 / -0.6				2.7 / -0.6					