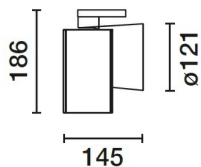


Last information update: June 2023

**Product configuration: N187**

N187: medium body - neutral white - wide flood optic

**Product code**N187: medium body - neutral white - wide 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 Neutral White (4000K) emission. Product inclusive of OPTIBEAM interchangeable reflector with wide 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:	2477	CRI:	80
W system:	31.5	Colour temperature [K]:	4000
lm source:	3100	MacAdam Step:	3
W source:	29	Life Time LED 1:	50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	78.6	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.) [%]:	80	ZVEI Code:	LED
Beam angle [°]:	44°	Number of optical assemblies:	1

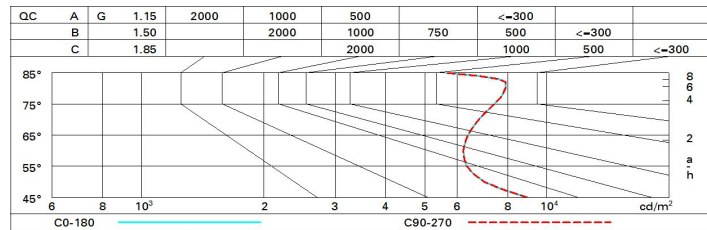
**Polar**

<p>Imax=4793 cd 90° 180° 90° 5000 0° α=44°</p>	<b>CIE</b> nL 0.80 96-98-100-100-80 UGR 15.7-14.9 <b>DIN</b> A.61 <b>UTE</b> 0.80A+0.00T F*1=963 F*1+F*2=985 F*1+F*2+F*3=996				<b>Lux</b>			
	h	d	Em	Emax	h	d	Em	Emax
	2	1.6	959	1197				
	4	3.2	240	299				
	6	4.8	107	133				
	8	6.5	60	75				

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	71	67	64	62	66	64	63	61	76
1.0	74	71	68	66	70	67	67	64	80
1.5	78	75	73	71	74	72	72	69	87
2.0	81	79	77	76	78	76	75	73	91
2.5	82	81	80	78	80	78	78	75	94
3.0	83	82	81	80	81	80	79	77	96
4.0	84	84	83	82	82	82	80	78	98
5.0	85	84	84	84	83	83	81	79	99

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 3100 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	12.2	12.8	12.5	13.1	13.3	12.2	12.8	12.5	13.1	13.3
	3H	13.2	13.7	13.5	14.0	14.3	12.4	13.0	12.7	13.2	13.5
	4H	13.8	14.3	14.1	14.6	14.9	12.5	13.0	12.8	13.3	13.6
	6H	14.4	14.9	14.7	15.2	15.5	12.5	13.0	12.9	13.3	13.7
	8H	14.6	15.1	15.0	15.4	15.8	12.5	13.0	12.9	13.3	13.7
	12H	14.8	15.2	15.1	15.5	15.9	12.5	13.0	12.9	13.3	13.7
4H	2H	12.5	13.0	12.8	13.3	13.6	13.8	14.3	14.1	14.6	14.9
	3H	13.7	14.2	14.1	14.5	14.9	14.3	14.7	14.6	15.0	15.4
	4H	14.5	14.9	14.9	15.3	15.7	14.5	14.9	14.9	15.3	15.7
	6H	15.3	15.7	15.8	16.1	16.5	14.8	15.1	15.2	15.5	15.9
	8H	15.7	16.0	16.1	16.4	16.8	14.9	15.2	15.3	15.6	16.0
	12H	15.8	16.1	16.3	16.5	17.0	14.9	15.2	15.3	15.6	16.1
8H	4H	14.9	15.2	15.3	15.6	16.0	15.7	16.0	16.1	16.4	16.8
	6H	15.9	16.1	16.3	16.6	17.0	16.1	16.3	16.5	16.8	17.3
	8H	16.3	16.5	16.8	17.0	17.5	16.3	16.5	16.8	17.0	17.5
	12H	16.5	16.7	17.0	17.2	17.7	16.4	16.6	16.9	17.1	17.6
12H	4H	14.9	15.2	15.3	15.6	16.1	15.8	16.1	16.3	16.5	17.0
	6H	15.9	16.2	16.4	16.6	17.1	16.3	16.5	16.8	17.0	17.5
	8H	16.4	16.6	16.9	17.1	17.6	16.5	16.7	17.0	17.2	17.7
Variations with the observer position at spacing:											
S =		1.0H					1.3 / -0.5				
		1.5H					2.8 / -0.7				
		2.0H					4.1 / -0.7				