

# Full spectrum lighting for dental practices

Reduce eye strain and fatigue; use correct lighting in your dental practice.

DentLed Full Daylight spectrum lighting for dental practices is specifically designed to meet the needs of dental workers and have a significant impact on decreasing fatigue and eye strain in dental workers.



Light intensity dental treatment room

## Product family: PHL Dental Line

Linear bi-directional full Spectrum lighting for dental treatment rooms.

Elegant design With an elegant design PHL suspended linear lamps are suspended on either side of the dental chair with between 100 to 140 cm between the lamps. The lamps are bi-directional meaning that they emit light both from the top and the bottom.

## Key features and benefits

- CRI - Colour rendering index of 95 for accurate shade matching
- Flicker free drivers – no fatigue inducing visible or invisible flicker
- Direct / indirect lighting for an even distribution of lighting throughout the treatment room.
- Low glare, the light is not perceived as harsh or unpleasant.
- High output - 1500–2000 lux at the oral cavity.



PHL dental line in black



High colour rendering for correct shade matching



Reduce eye strain / tired eyes; install correct lighting.



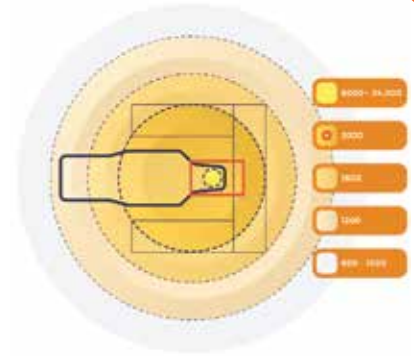
PHL combined with Dental Sky Ceiling

## Installation

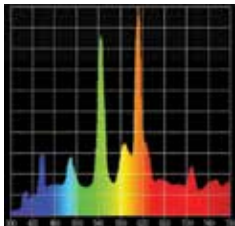
Due to the adjustable position of the suspension points (PHL 15 & 23), existing installation points can often be used. The installation process is straightforward as both LED's and the driver are integrated into the lamps. Any electrician can perform the technical installation.

## Advantages of full spectrum lighting:

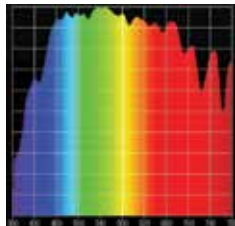
- Higher brightness without glare or being harsh on the eyes.
  - Full spectrum lighting spreads the output across the visible spectrum. The light is bright, but not harsh or blinding.
- Accurate Colour rendering
  - Accurate colour rendering is important for diagnosis of gum diseases, infections and shade matching.
- Circadian rhythm:
  - Dental workers spend a lot of time indoors, full spectrum lighting at the correct intensity stimulates the natural hormonal cycle which stimulates the allows the dental worker to be awake and focussed when required.
- Increased sharpness and improved overall vision.



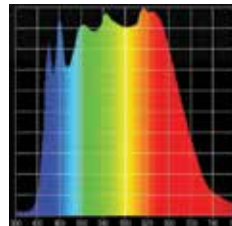
### Spectrum comparison



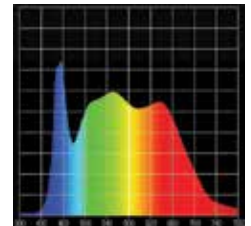
Tube / Fluorescent light



Daylight sunny day



DentLed full spectrum light



DentLed cri90+ full

## Technical specifications

	2 x PHL14	2 x phl15 FS	2 x phl15 DS	2 x PHL 22	2 x PHL23 FS	2 x PHL23 DS
Output (lumen)	2 x 9590 lm	2 x 7043 lm	2 x 4803 lm	2 x 15000 lm	2 x 10482 lm	2 x 7089 lm
CRI (colour rendering)	90+	90+	97+	90+	90+	97+
CCT (colour temp)	5000k	5000k	5000k	5000k	5000k	5000k
Efficiency (lm/watt)	96 lm/w	108 lm/w	73 lm/w	100 lm/w	107 lm/w	73lm/w
Power cons. (watt)	2 x 100w	2 x 66w	2 x 66w	2 x 150w	2 x 97w	2 x 97w
Dimensions (mm)	1405x51x81	1546x50x75	1546x50x75	2245x51x81	2246x35x71	2246x35x71
Weight (kg)	2 x 3.7	2 x 3.1	2 x 3.1	2 x 7.4	2 x 6.3	2 x 6.3
Dimmable	option/ upgrade dali inc	option/ upgrade dali inc	option/ upgrade dali inc	option/ upgrade dali inc	option/ upgrade dali inc	option/ upgrade dali inc
Colours	white	black/white	black/white	white	black/white	black/white
Flicker Free	yes	yes	yes	yes	yes	yes
Lifetime (hrs / yrs)	50,000 / 20	100,000 / 40	100,000 / 40	50,000 / 20	100,000 / 40	100,000 / 40
Power connector	euro	euro	euro	euro	euro	euro
Power cord lngth (m)	3	2	2	3	2	2
Max Suspension (m)	1	1.5	1.5	1	1.5	1.5
direct/indirect	70%/30	51%/49%	51%/49%	70%/30	51%/49%	51%/49%
Suspension points	fixed 1249 mm	adjustable/rail	adjustable/rail	fix2089/1122	adjustable/rail	adjustable/rail

### About DentLed

With full spectrum lighting installed in over 1100 dental treatment rooms, DentLed is the market leader for dental lighting in the Netherlands.

DentLed designs and builds full daylight spectrum lighting specifically for use in dental work; dental surgeries, practices.

### Our offices

**NL - Utrecht**  
Mariaplaats 3  
3511LH Utrecht  
+31 303 100 500

**FR - Lyon**  
185 Rue Battaille  
69008 Lyon  
+33 428 770 170

**DE - Dusseldorf**  
Beedstraße 54  
40468 Düsseldorf  
+49 211 869 430 03

### Contact us

We're here to help,  
give us a call or email us:

☎ +31 303 100 500  
✉ info@dentled.com