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Maxolid Highbay Range Extension (BY415P, BY416P)



Maxolid Highbay (415P, 416P)







Unique Selling Points:

- Excellent quality assures high performance in harsh industrial environments
- System efficacy > 125lm/W offers up to 65% energy savings compared to HID systems
- Available in multiple lumen packages 23000/ 24500/ 26000/ 28000/
 28500lm for different application requirements
- 1 to 1 replacement to HID for both new install & retrofit applications
- Lifetime of 50,000 hrs. (L70B50) @ Ta45°C;
- BIS approbations Safe and Reliable performance
- Tempered glass cover provides protection against high pollution
- Precision optics ensures efficient light distribution
- Robust aluminum die-casting housing provides excellent thermal efficiency and ensures higher quality of light over life time
- IP65 rated; effectively prevents dust & moisture ingress into luminaire for greater performance over long term
- Operating voltage range of 140-270V with High Voltage cut off and auto restart feature @325V, Phase to phase 440V protection for 8 hrs.

Features and Benefits

Efficient heat dissipation ensures longer life in high temperature applications Designed for operations under diverse environment from -10°C to 50°C IP65 rated to prevent dusts & moisture ingress to Robust and ensure higher performance over long duration **Durable** 50,000 hrs. (L70B50) @ T_a 45°C Philips Xitanium LED driver; provision for 10KV Series **SPD** High voltage cutoff @ 325 ± 15V & Auto Restart 440V Protection for 8 Hrs. (Phase to Phase) Tempered glass cover provides strong protection from **High-quality** high pollution materials and Pressure die-cast housing offers excellent corrosiondesign resistance and robustness Incorporates extremely efficient, state-of-the-art LED **Outstanding** technology **Energy** System efficiency >125 lm/W **Efficiency** ~65% energy savings against conventional HID system 1:1 retrofit / New range is ideal solution for both new installation & retrofit applications **HID** replacement Point to point replacement for a HPI 400W High-bay • Five lumen choices with four optics: Suitable for 15 to 30 meter height of installation Wide Beam (WB) brings high uniformity to the whole Versatile area applications Narrow Beam (NB) delivers high efficient light to make

a brighter world

higher mounting heights

Extra Narrow Beam (ENB) delivers desired lux level for

Precision Optics

Lighting comfort improves productivity

- New designed optic module helps achieve UGR < 25 for lighting system
- Professional Lens structure to realize accurate light distribution results in dramatically improved uniformity and lux level



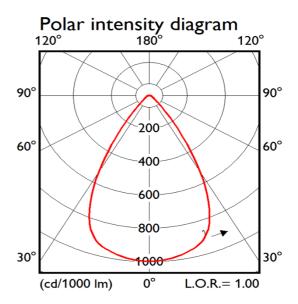


SY20° (ENB)

Polar intensity diagram 120° 90° 90° oob 60° 60° 2000 3000 4000 30° 30° 5000 L.O.R.= 1.00 0° (cd/1000 lm)

- Extra Narrow beam
- FWHM 20°
- Rotational symmetry
- Centralized beam fit for high ceiling

SK60° (NB)

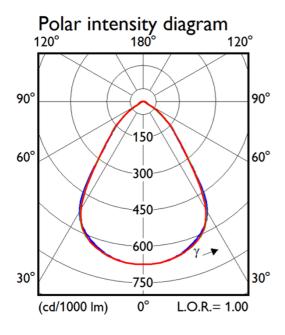


- Narrow beam
- FWHM 60°
- Rotational symmetry
- Fit for low ceiling and general lighting

Precision Optics

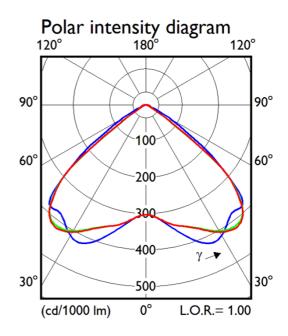
Lighting comfort improves productivity

NB



- Narrow beam
- FWHM 60°
- Rotational symmetry
- Centralized beam fit for high ceiling

WB

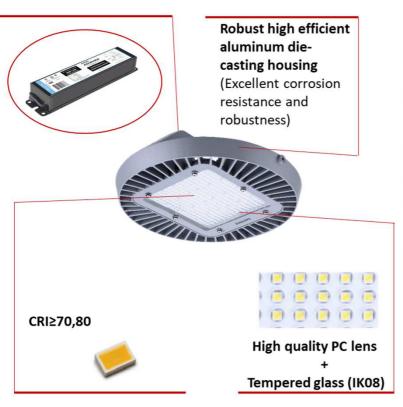


- Wide beam
- FWHM 110°
- Rotational symmetry
- Fit for low ceiling and general lighting

Long Lasting Performance

All Philips key components and production assure long lasting performance

- 440V Phase to Phase Protection for 8 Hrs.
- High cut off @ 325±15V and auto Restart
- Future Proof Drivers (Comes with 1-10V Dimming)
- 4KV internal surge protection

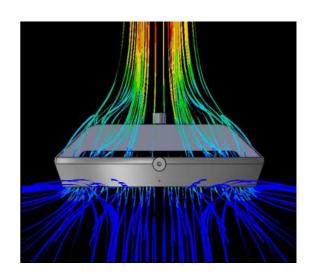




- 3D lens build accurate optic
- High Power robust LED system with controlled lighting technology

Highly Efficient Thermal Design

- Excellent Efficient heat dissipation feature, without being influenced by dirt and installation angle, keeps it cool in high temperature environment
- Innovative heat-sink design creates an airflow through the product to prevent dirt from accumulating on the surface, suitable for eye bolt installation



- In higher lumen variant (High power LED's) separate gear unit designed to prevent driver from heat interaction as it has been found to be more sensitive to heat than the LEDs themselves
- Stable operation between -10°C to +50°C, ensuring durable and reliable performance at Ta 45°C









Applications

- Steel Factory
- Long (continuous) operations
- Tobacco Factories

- Warehouse
- Distribution Centre
- Airport
- Harsh Industrial Environments













Energy saving – New installation



	Life time			
-	2.5	HPI Plus lamp	20000 hrs	
	times	BY416P	50000 hrs	
*	·			





HPI Plus lamp			Maxolid Range			Saving	
Lamp	Lamp Lumen	Power	System Lumen	Product	Power	System Lumen	% %
HPI P 400W	32500lm	474W	20760lm	BY416P	180W	23000lm	65%

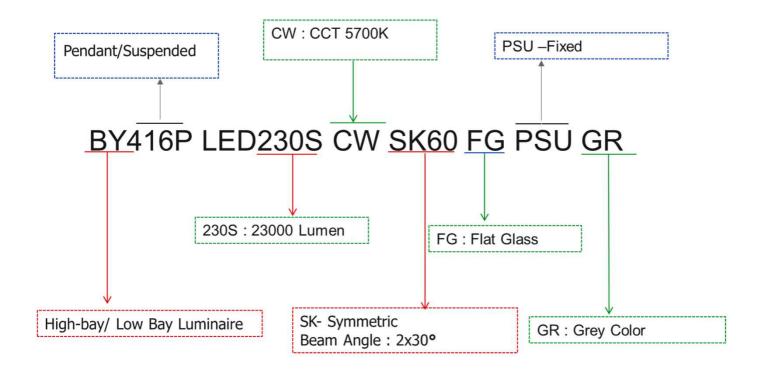
Energy saving – Retrofit installation

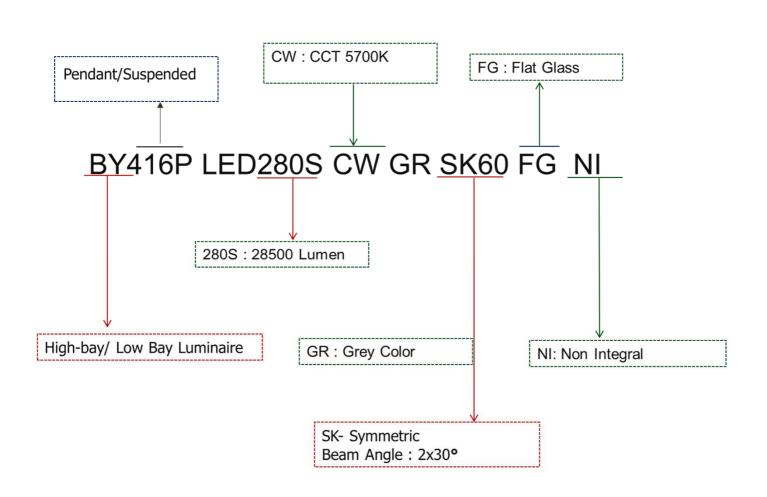
	HPI P 400W Conventional High-bay	BY416P LED High-bay	
Lamp Wattage	400W	-	
System Wattage	474W	180W	
Initial Light Output	32,500lm	23,000lm	
Light Output Ratio (LOR)	60%	100%	
Average System Light output (10,000 hrs.)	19,500lm	23,000lm	
Total Energy Savings (with 15% higher light o	~62%		

Specifications

Specification	BY416P LED230S	BY416P LED260S	BY416P LED280S NI	BY415P LED240S	BY415P LED275S	
Light output	23000lm	26000lm	28500lm	24500 lm	28000 lm	
System wattage	180W	205W	225W	190W	220W	
System efficacy (typical)	127lm/W	127lm/W	127lm/W	130 lm/W	127 lm/W	
ССТ		5700K	6500K			
CRI		≥ 70	≥ 80			
SDCM	<5					
Optics	SY20° / SK60°			NB (60°)/ WB(110°)		
Lens	PC					
Optical cover	High Transmittance Tempered Glass					
Input voltage	140~270V					
Power Factor	> 0.95					
THD	< 10%					
Driver	Fixed; 1-10V Dimming					
Surge protection	4kV; 10kV on demand					
Electrical Class	Class 1					
Life (L70B50)	50,000 hrs. @T _a 45°C					
Operating temperature	- 10 ^o C < Ta < 50 ^o C					
IP Rating	IP65					
IK Rating	IK08					
Mounting	Eye Bolt mounted					
Housing material	Aluminum Die-casting					
Approbation	BIS					
Sustainability	RoHS					

How to read the Cat ref





Ordering Codes

12 NC	Description	Spare Driver 12NC
919515813040	BY416P LED260S CW SK60 FG PSU GR	929002194206
919515813041	BY416P LED260S CW SY20 FG PSU GR	929002194206
919515813042	BY416P LED230S CW SK60 FG PSU GR	929002194206
919515813043	BY416P LED230S CW SY20 FG PSU GR	929002194206
919515813185	BY416P LED280S CW GR SY20 FG NI	929002194206
919515813186	BY416P LED280S CW GR SK60 FG NI	929002194206
919515813261	BY415P LED275S CW PSU GR FG NB XTFCL V1	929002194206
919515813262	BY415P LED275S CW PSU GR FG WB XTFCL V1	929002194206
919515813263	BY415P LED240S CW PSU GR FG NB XTFCL V1	929002194206
919515813264	BY415P LED240S CW PSU GR FG WB XTFCL V1	929002194206

Gear Box – IP65

12NC	Description	Spare Driver 12NC	
919515813172	ZVX431 1X220W PSU LED	929002194206	
313313013172	DRIVER	929002194200	