PHILIPS Lighting



Robust and Superior aesthetics Circular Highbay suitable for versatile applications

Maxoled Highbay

Maxoled LED highbay is a luminaire designed to provide undisrupted and uniform lighting for industrial application and is an ideal solution for higher mounting heights, high temperature application and special heavy-duty industry. It enables a safe working environment with leading specifications and comfortable light. At the same time, it lowers the overall maintenance cost. Robustness and aesthetics make this highbay a perfect solution for versatile applications such as manufacturing unit, Airport hangar area, shop floor, warehouse/storage area, heavy duty industries etc.

Benefits

- \cdot Suitable for use in harsh Industrial environment
- \cdot Option of multiple optics and lumen packages providing application flexibility
- Dimmable options making suitable for connected industrial offerings
- Outstanding energy efficiency leads to lowering ROI
- · High quality material and design leads to longer life class for luminaire

Features

- Ingress Protection -IP65
- Impact Resistance IK08
- Inbuilt encapsulated Potted Driver
- \cdot Designed for operations under diverse environment from -10 °C to 50 °C
- Life class is 50000 hours (L70B50 @ Ta45°C)
- \cdot Tempered glass cover provides strong protection from high pollution
- Pressure die-cast housing offers excellent corrosion-resistance and robustness
- System efficiency <gt/> 125 lm/W
- System lumen 23000lm, 24500lm, 26000lm, 28000lm & 28500lm options
- Four Beam Angles Narrow Beam (NB; 60°), Wide Beam (WB; 110°), Symmetric (SY20°), Symmetric (SK60°)
- Five lumen choices with four optics: Suitable for 15 to 30-meter height
- High Voltage Cutoff @ 325 ± 15V with Auto Restart feature
- 440V Protection for 8 Hrs. (Phase to Phase)
- Internal Surge Protection 4KV
- Dimmable option provide capability for further energy savings
- Options of Polycarbonate front cover

Application

- $\boldsymbol{\cdot}$ Arena and Sports
- \cdot Manufacturing
- Warehouses
- Airports

Warnings and Safety

Meant for use in Indoor Industrial environment only

Dimensional drawing





Product : BY416P Type : BY416P Application: Indoor



General Information				
Flammability mark	For mounting on			
	normally			
	flammable			
	surfaces			
Light Technical				
Optical cover type	Tempered glass			
Operating and Electrical				
Input Voltage	120 to 277 V			
Mechanical and Housing				
Housing Color	Gray			
Approval and Application				
Protection class IEC	Safety class I			
Mech. impact protection code	IK08			
Ingress protection code	IP65			
Initial Performance (IEC Compliant)				
Initial chromaticity	<5			

General Information

Order Code	Full Product Name	Driver included
919515812644	BY415P LED165S CW PSU GR FG WB XTFCL V1	Yes
919515812645	BY415P LED190S CW PSU GR FG NB XTFCL V1	Yes
919515812646	BY415P LED190S CW PSU GR FG WB XTFCL V1	Yes
919515812648	BY415P LED165S CW PSD GR FG NB V1	Yes
919515812649	BY415P LED165S CW PSD GR FG WB V1	Yes
919515812650	BY415P LED190S CW PSD GR FG NB V1	Yes
919515812651	BY415P LED190S CW PSD GR FG WB V1	Yes
919515812768	BY415P LED145S CW PSU GR FG NB XTFCL V1	Yes
919515812770	BY415P LED145S CW PSD GR FG NB V1	Yes
919515812771	BY415P LED145S CW PSD GR FG WB V1	Yes
919515813040	BY416P LED260S CW SK60 FG PSU GR	Yes
919515813041	BY416P LED260S CW SY20 FG PSU GR	Yes
919515813042	BY416P LED230S CW SK60 FG PSU GR	Yes
919515813185	BY416P LED280S CW GR SY20 FG NI	No
919515813261	BY415P LED275S CW PSU GR FG NB XTFCL V1	Yes
919515813262	BY415P LED275S CW PSU GR FG WB XTFCL V1	Yes

Light Technical (1/2)

Light Techn	ical (1/2)										
		Beam	Correlated	Color	Luminous			Beam	Correlated	Color	Luminous
		angle of	Color	rendering	Efficacy			angle of	Color	rendering	Efficacy
	Full Product	light	Temperature	index	(rated)		Full Product	light	Temperature	index	(rated)
Order Code	Name	source	(Nom)	(CRI)	(Nom)	Order Code	Name	source	(Nom)	(CRI)	(Nom)
919515812644	BY415P LED165S	110	6500 K	>80	122 lm/W		PSD GR FG WB				
	CW PSU GR FG	degree(s)					V1				
	WB XTFCL V1					919515812768	BY415P LED145S	60	6500 K	>80	125 lm/W
919515812645	BY415P	60	6500 K	>80	127 lm/W		CW PSU GR FG	degree(s)			
	LED190S CW	degree(s)					NB XTFCL V1				
	PSU GR FG NB					919515812770	BY415P LED145S	60	6500 K	>80	125 lm/W
	XTFCL V1						CW PSD GR FG	degree(s)			
919515812646	BY415P	110	6500 K	>80	127 lm/W		NB V1				
	LED190S CW	degree(s)				919515812771	BY415P LED145S	110	6500 K	>80	125 lm/W
	PSU GR FG WB						CW PSD GR FG	degree(s)			
	XTFCL V1						WB V1				
919515812648	BY415P LED165S	60	6500 K	>80	122 lm/W	919515813040	BY416P	60	5700 K	>70	127 lm/W
	CW PSD GR FG	degree(s)					LED260S CW	degree(s)			
	NB V1						SK60 FG PSU				
919515812649	BY415P LED165S	110	6500 K	>80	122 lm/W		GR				
	CW PSD GR FG	degree(s)				919515813041	BY416P	20	5700 K	>70	127 lm/W
	WB V1						LED260S CW	degree(s)			
919515812650	BY415P	60	6500 K	>80	127 lm/W		SY20 FG PSU				
	LED190S CW	degree(s)					GR				
	PSD GR FG NB					919515813042	BY416P	60	5700 K	>70	128 lm/W
	V1						LED230S CW	degree(s)			
919515812651	BY415P	110	6500 K	>80	127 lm/W		SK60 FG PSU				
	LED190S CW	degree(s)					GR				

Order Code	Full Product Name	Beam angle of light source	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Luminous Efficacy (rated) (Nom)
919515813185	BY416P LED280S CW GR SY20 FG NI	20 degree(s)	5700 K	>70	127 lm/W
919515813261	BY415P LED275S CW	60 degree(s)	6500 K	>80	127 lm/W

Order Code	Full Product Name	Beam angle of light	Correlated Color Temperature	Color rendering index	Luminous Efficacy (rated)
Order Code	Name PSU GR FG NB XTFCL V1	source	(Nom)	(CRI)	(Nom)
919515813262	BY415P LED275S CW PSU GR FG WB XTFCL V1	110 degree(s)	6500 K	>80	127 lm/W

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux	Optic type
919515812644	BY415P LED165S CW PSU GR FG WB	16,500 lm	Beam angle 110°
	XTFCL V1		
919515812645	BY415P LED190S CW PSU GR FG NB	19,000 lm	Beam angle 60°
	XTFCL V1		
919515812646	BY415P LED190S CW PSU GR FG WB	19,000 lm	Beam angle 110°
	XTFCL V1		
919515812648	BY415P LED165S CW PSD GR FG NB V1	16,500 lm	Beam angle 60°
919515812649	BY415P LED165S CW PSD GR FG WB	16,500 lm	Beam angle 110°
	V1		
919515812650	BY415P LED190S CW PSD GR FG NB	19,000 lm	Beam angle 60°
	V1		
919515812651	BY415P LED190S CW PSD GR FG WB	19,000 lm	Beam angle 110°
	V1		
919515812768	BY415P LED145S CW PSU GR FG NB	15,000 lm	Beam angle 60°
	XTFCL V1		

Order Code	Full Product Name	Luminous Flux	Optic type
919515812770	BY415P LED145S CW PSD GR FG NB V1	15,000 lm	Beam angle 60°
919515812771	BY415P LED145S CW PSD GR FG WB	15,000 lm	Beam angle 110°
	V1		
919515813040	BY416P LED260S CW SK60 FG PSU	26,000 lm	Beam angle 60°
	GR		
919515813041	BY416P LED260S CW SY20 FG PSU GR	26,000 lm	Beam angle 20°
919515813042	BY416P LED230S CW SK60 FG PSU	23,000 lm	Beam angle 60°
	GR		
919515813185	BY416P LED280S CW GR SY20 FG NI	28,500 lm	Beam angle 20°
919515813261	BY415P LED275S CW PSU GR FG NB	28,000 lm	Beam angle 60°
	XTFCL V1		
919515813262	BY415P LED275S CW PSU GR FG WB	28,000 lm	Beam angle 110°
	XTFCL V1		

Operating and Electrical

Order Code	Full Product Name	Power Consumption
919515812644	BY415P LED165S CW PSU GR FG WB XTFCL V1	135 W
919515812645	BY415P LED190S CW PSU GR FG NB XTFCL V1	150 W
919515812646	BY415P LED190S CW PSU GR FG WB XTFCL V1	150 W
919515812648	BY415P LED165S CW PSD GR FG NB V1	135 W
919515812649	BY415P LED165S CW PSD GR FG WB V1	135 W
919515812650	BY415P LED190S CW PSD GR FG NB V1	150 W
919515812651	BY415P LED190S CW PSD GR FG WB V1	150 W
919515812768	BY415P LED145S CW PSU GR FG NB XTFCL V1	120 W

Order Code	Full Product Name	Power Consumption
919515812770	BY415P LED145S CW PSD GR FG NB V1	120 W
919515812771	BY415P LED145S CW PSD GR FG WB V1	120 W
919515813040	BY416P LED260S CW SK60 FG PSU GR	205 W
919515813041	BY416P LED260S CW SY20 FG PSU GR	205 W
919515813042	BY416P LED230S CW SK60 FG PSU GR	180 W
919515813185	BY416P LED280S CW GR SY20 FG NI	225 W
919515813261	BY415P LED275S CW PSU GR FG NB XTFCL V1	220 W
919515813262	BY415P LED275S CW PSU GR FG WB XTFCL V1	220 W

Temperature

Order Code	Full Product Name	Ambient temperature range
919515812644	BY415P LED165S CW PSU GR FG WB	0 to +50 °C
	XTFCL V1	
919515812645	BY415P LED190S CW PSU GR FG NB	0 to +45 °C
	XTFCL V1	
919515812646	BY415P LED190S CW PSU GR FG WB	0 to +45 °C
	XTFCL V1	
919515812648	BY415P LED165S CW PSD GR FG NB V1	0 to +50 °C

Order Code	Full Product Name	Ambient temperature range
919515812649	BY415P LED165S CW PSD GR FG WB V1	0 to +50 °C
919515812650	BY415P LED190S CW PSD GR FG NB V1	0 to +50 °C
919515812651	BY415P LED190S CW PSD GR FG WB V1	0 to +50 °C
919515812768	BY415P LED145S CW PSU GR FG NB XTFCL	0 to +45 °C
	V1	
919515812770	BY415P LED145S CW PSD GR FG NB V1	0 to +50 °C
919515812771	BY415P LED145S CW PSD GR FG WB V1	0 to +50 °C

Order Code	Full Product Name	Ambient temperature range
919515813040	BY416P LED260S CW SK60 FG PSU GR	0 to +50 °C
919515813041	BY416P LED260S CW SY20 FG PSU GR	0 to +50 °C
919515813042	BY416P LED230S CW SK60 FG PSU GR	0 to +50 °C
919515813185	BY416P LED280S CW GR SY20 FG NI	0 to +50 °C

Order Code	Full Product Name	Ambient temperature range
919515813261	BY415P LED275S CW PSU GR FG NB	0 to +50 °C
	XTFCL V1	
919515813262	BY415P LED275S CW PSU GR FG WB	0 to +50 °C
	XTFCL V1	

Controls and Dimming

Order Code	Full Product Name	Dimmable
919515812644	BY415P LED165S CW PSU GR FG WB XTFCL V1	No
919515812645	BY415P LED190S CW PSU GR FG NB XTFCL V1	No
919515812646	BY415P LED190S CW PSU GR FG WB XTFCL V1	No
919515812648	BY415P LED165S CW PSD GR FG NB V1	Yes
919515812649	BY415P LED165S CW PSD GR FG WB V1	Yes
919515812650	BY415P LED190S CW PSD GR FG NB V1	Yes
919515812651	BY415P LED190S CW PSD GR FG WB V1	Yes
919515812768	BY415P LED145S CW PSU GR FG NB XTFCL V1	No

Order Code	Full Product Name	Dimmable
919515812770	BY415P LED145S CW PSD GR FG NB V1	Yes
919515812771	BY415P LED145S CW PSD GR FG WB V1	Yes
919515813040	BY416P LED260S CW SK60 FG PSU GR	Yes
919515813041	BY416P LED260S CW SY20 FG PSU GR	Yes
919515813042	BY416P LED230S CW SK60 FG PSU GR	Yes
919515813185	BY416P LED280S CW GR SY20 FG NI	Yes
919515813261	BY415P LED275S CW PSU GR FG NB XTFCL V1	Yes
919515813262	BY415P LED275S CW PSU GR FG WB XTFCL V1	Yes



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