

Type No. _____

Catalog No. _____

Job. Name _____

BayLyter Series LED

Four-Pod Industrial High-Bay Luminaire

APPLICATIONS

- Wide variety of high ceiling applications
- Applications including manufacturing, warehousing, large retail, home centers, cold storage and gymnasiums

CONSTRUCTION

- Low profile architectural design
- LED pods and driver housings are made from precision die-cast aluminum for strength
- Computer designed heat sinks
- Venturi principle for controlled air flow
- Corrosion resistant polyester powder finish in textured white standard
- Other colors include textured black and titanium gray

ELECTRICAL

- High power factor electronic integral LED driver(s) (350mA/530mA and 700mA)
- Available in 120-277V or 480V
- Dimming driver standard (control 0 – 10V DC)
- Components RoHS compliant
- Driver is field-replaceable

OPTICS

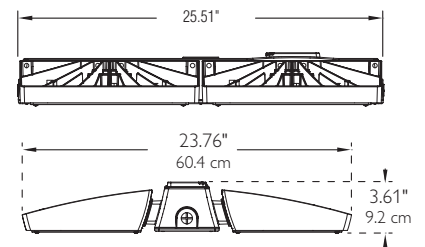
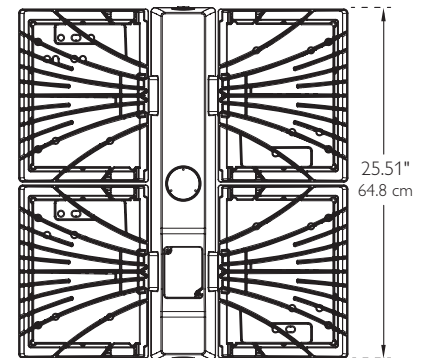
- High output LEDs with 32 or 48 per pod
- LEDs include individual optical lens for precise optical control
- Wide, medium narrow or aisle distributions
- Tempered glass lens with molded silicone gasket seals the optical compartment
- CRI > 70.

MOUNTING

- Mounting choices include single pendant/stem or aircraft cable hangers
(Aircraft cable hangers supplied standard with base product)

WARRANTY/LISTINGS

- Published 5 year warranty
- ETL approved for damp locations (IP65 rating as option)
- ETL listed for use in ambient temperatures ranging from -30 to 45°C
- High-bay and low-bay units for commercial and industrial building
are DLC Certified; 700mA configurations only.



Weight: 39 Lbs (17.7 Kg)



DESIGNLIGHTS
CONSORTIUM

Predicted L70 Lifetime

> 100,000 hours @ 25°C (77°F)

Up to 100,000 hours @ 45°C (113°F)

(based upon LED manufacturer's supplied LM-80 data and in-situ laboratory testing)

Ordering Guide Example: BL4B4MPF1-8T

BL	4	B	4	M	P	F1	8	T
Series	Pod Qty.	Engine Designator	Color Temp.	Optics	Mounting	Options	Voltage	Color
BL -	4	A-146W @ 350mA	4 ¹ -Neutral White	A-Aisle	P-3/4" Pendant Stem	See	1-(120v)	W-Textured White
BayLyter Series	4	B-220W @ 530mA	4000K	M-Medium	A-Aircraft Cable	Page 2	2-(208v)	B-Textured Black
	4	C-288W @ 700mA		N-Narrow	H-Hook		3-(240v)	T-Titanium Gray
	4	D-210W @ 350mA		W-Wide (Lowbay)			4-(277v)	
							5-(480v)	
							8-(120-277v)	

Notes:

1. Contact factory for additional color temperature options.

ExceLine

1611 Clovis R. Barker Road • San Marcos, TX 78666
800.545.1326 • 512.392.5821 • Fax: 512.753.1122 • www.exceline.com

PT#: EXSP074A0812

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PHILIPS

BayLyter Series LED

Four-Pod Industrial High-Bay Luminaire

ENGINE DESIGNATOR DETAILS

Board Size	Current	System Wattage	Lumen Output	Efficacy (L/W)
4 x 48	350mA	210	20,814	99
4 x 32	700mA	288	22,500	78
	530mA	220	18,200	83
	350mA	146	12,950	89

* Lumens mentioned are averaged between aisle through wide distribution and lumen output will vary by color temperature options.

PHOTOMETRIC DATA

Distribution – Medium CCT: NW CREE XPG LEDs

Candlepower		Light Distribution				Average Luminance			
Angle	A vg. Candela	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross
0	10479	0-30	9070	40.8	40.8	45	27805	19966	20149
5	10405	0-40	15502	69.7	69.7	55	4923	3989	3732
10	10241	0-60	21523	96.8	96.8	65	3483	2675	2552
15	10239	0-90	22234	100.0	100.0	75	2293	1648	1353
20	10596					85	688	224	172
25	11308								
30	10790								
35	9817								
40	8000								
45	4926								
50	1882								
55	769								
60	538								
65	390								
70	264								
75	144								
80	59								
85	10								

Coefficients of Utilization																
EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)																
Ceil	80				70				50				30			
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
RGR	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88
3	100	92	87	82	98	91	86	82	88	84	80	86	82	79	84	81
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74
5	88	78	71	67	86	77	71	66	75	70	66	74	69	65	72	68
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62
7	76	65	58	54	75	65	58	53	63	57	53	62	57	53	61	56
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51
9	66	55	47	42	65	54	47	42	53	47	42	52	46	42	51	46
10	61	50	42	38	60	49	42	38	48	42	38	47	41	37	46	41

Distribution – Wide CCT: NW CREE XPG LEDs

Candlepower		Light Distribution				Average Luminance			
Angle	A vg. Candela	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross
0	3277	0-30	3624	16.1	16.1	45	31294	31931	32268
5	3378	0-40	7366	32.8	32.8	55	40895	40678	38128
10	3581	0-60	19747	88.0	88.0	65	9094	5222	4046
15	3841	0-90	22435	100.0	100.0	75	2131	1905	1512
20	4201					85	825	555	600
25	4700								
30	5300								
35	5973								
40	6698								
45	7510								
50	8043								
55	7584								
60	4679								
65	789								
70	298								
75	158								
80	67								
85	18								

Coefficients of Utilization																
EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)																
Ceil	80				70				50				30			
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
RGR	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90
2	101	94	88	83	99	92	86	82	88	84	80	85	82	78	82	79
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42
7	61	47	38	31	60	46	37	31	44	36	31	43	36	30	42	35
8	56	41	32	26	54	40	32	26	39	31	26	38	31	25	36	30
9	51	36	27	21	49	36	27	21	34	27	21	33	26	21	32	26
10	46	32	23	18	45	31	23	18	30	23	18	29	22	17	29	22

* Photometric data based on test performed in compliance with LM79.

OPTIONS

Blank- Glass Lens
F1²⁻ Single Fuse
F2²⁻ Double Fuse
3C- 3' Cord, no Plug
3CD- 3' Cord, no Plug, extra cord for dimming
6C- 6' Cord, no Plug
6CD- 6' Cord, no Plug, extra cord for dimming
3P^{1,2-} 3' Cord and Twist-Lock Plug
3PD^{1,2-} 3' Cord and Twist-Lock Plug for line voltage, extra cord and plug for dimming
6P^{1,2-} 6' Cord and Twist-Lock Plug
6PD^{1,2-} 6' Cord and Twist-Lock Plug for line voltage, extra cord and plug for dimming
N¹⁻ Indirect Mounting
P- Protection - IP65 Rating (with cable mounting only)
L- Diffuse Lens
E¹⁻ Emergency Lampholder (lamp by others)
MC^{1,3-} 360° Motion Sensor with Control 0 – 10V
MA^{1,3-} 360° Motion Sensor with Adjustable Day Lighting Control
WL - Wet Location

ACCESSORIES

WG- Wire Guard

Notes:

1. Not available with IP65 Rating or wet location listing.
2. Specify Voltage.
3. 120 or 277V only. Specify Voltage.

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