

PROJECT NAME

CATALOG NO.

TYPE

DATE

NOTE

LBW Series

LED Utility Wrap Luminaire

DESCRIPTION

The Alphalite LBW Series Utility Wrap Luminaire provides high light levels for commercial, industrial, retail and residential applications. Fixtures can be used in storage/utility ares, coves, display cases, shops, task and general area lighting. Low profile design offers easy handling and storage.

LED UTILITY WRAP LUMINAIRE

APPLICATION

Versatile solution for general illumination from surface-mounted fixture. Ideal for corridors, hallways, stairwells, closets, storage rooms, and spaces that demand energy demand reduction and high quality light.

SPECIFICATION FEATURES

Benefits

- Lower installation costs and reduced maintenance costs
- Attractive ROI and lower energy costs
- Ideal for use with sensors and advanced controls
- High quality light for a more productive space
- Convenient access to replaceable, standard components reduces life cycle costs

Construction

Reflector utilizes highly reflective powder coat finish. Diffuser requires no additional frame or fastener for easy installation. Toolless removal of diffuser allows access to LED array. LED module and driver are replaceable. LED module and driver are replaceable. Housing and optics maintain damp location rating with all internal components.

Finish

Highly reflective finish. Baked white paint, applied after fabrication.

Sample Number: LBW-4L(40S2)/840

Electrical

Luminaire utilizes long life, high efficacy LEDs and a highly efficient, reliable LED driver. 120V-277V input voltage for increased versatility. 0-10V continuous dimming comes standard. Ideal when used in conjunction with controls and sensors. Comes equipped with quick disconnect for compliance with US code.

Optics

The LBW's LED light engine and integrated optics delivers enhanced light quality and distribution. Precision-formed diffuser and reflector are designed LED light consistently, reducing glare and pixelation.

Certifications / Regulatory

UL/cUL listed. All components used have UL approval. UL Class 2. Power supply: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2. DLC Premium listed.

Warrantv

7-year limited warranty. See complete warranty terms for details.

Quick Ship Product

LBW-4L(40S2)/835 LBW-4L(40S2)/840

ORDERING INFORMATION

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LBW	4	L	8	40	(Blank)	(Blank)
Series	Form Factor	Lumen Package	CRI	ССТ	Input Voltage	Dimming
_BW - LED Utility	2 - 2'	VL - Very Low Wattage	8 - 83+ CRI	35 - 3500K	(Blank) - 120V-277V	(Blank) - 0-10V Continuous
Nrap Luminaire	4 - 4'	L - Low Wattage		40 - 4000K		Dimming
		*See energy data for details		50 - 5000K		

Options

Controls

MMS - Integrated step dimming microwave motion sensor with sync function OS - Integrated step dimming PIR occupancy

sensor DL - Integrated daylight harvesting

SMC - Smart Control System

Emergency Backup

EM700 - 700lm

EM1400 - 1400lm

EM2000 - 2000lm



PERFORMANCE

LBW Series

Efficacy (Im/W)

Delivered

Lumens (Im)

SUMMARY

Input Voltage	120V-277V
Input Power	See energy data for details
Power Factor	> 0.95
THD (Max.)	20%
Efficacy	> 127 LPW
Delivered Lumens	See energy data for details
Controls/ Dimming	Full Range 0-10V dimming standard
Dimming Range	0-10V Continuous (10-100%)
CRI	> 83
ССТ	3500K, 4000K, 5000K
Operating Temp.	-20 ~ +55 C
Rated Life	70,000 hours

ENERGY PERFORMANCE DATA Part No.

Form

Factor

		LBW-4L(40S2)/835			5200	130
	4'	LBW-4L(40S2)/840	40	38.76	5240	131
		LBW-4L(40S2)/850			5280	132
standard						
.)						

Rated

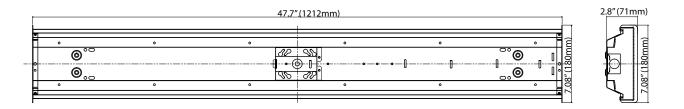
Wattage (W)

Tested

Wattage (W)

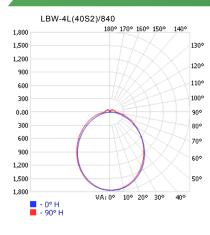
PHYSICAL PARAMETERS

DIMENSION



ficiente of Utilization

PHOTOMETRICS



Zonal Lumen Summary								
LUMENS	% LUMINAIRE							
1,334.60	26.50%							
2,147.80	42.60%							
3,671.30	72.90%							
1,050.90	20.90%							
581.7	11.50%							
196.9	3.90%							
4,722.20	93.70%							
317	6.30%							
5,039.20	100%							
	LUMENS 1,334.60 2,147.80 3,671.30 1,050.90 581.7 196.9 4,722.20 317							

Coeff	cients	sofu	Jtiliza	ation	- Zor	nal C	avity	Metr	iod									
E										E	FFEC	TIVE F	LOOR	CAVI	TY RE	FLECT	FANCE	: 20%
RCC %:	80				70				50			30			10			0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.18	1.18	1.18	1.18	1.14	1.14	1.14	0.94	1.08	1.08	1.08	1.02	1.02	1.02	0.96	0.96	0.96	0.94
1	1.07	1.02	0.97	0.93	1.03	0.99	0.95	0.78	0.94	0.9	0.87	0.89	0.86	0.84	0.84	0.82	0.8	0.77
2	0.97	0.89	0.82	0.76	0.94	0.86	0.8	0.66	0.82	0.77	0.72	0.78	0.73	0.69	0.74	0.7	0.67	0.64
3	0.89	0.78	0.7	0.63	0.86	0.76	0.68	0.56	0.72	0.66	0.6	0.69	0.63	0.59	0.65	0.61	0.57	0.54
4	0.81	0.69	0.6	0.54	0.78	0.67	0.59	0.48	0.64	0.57	0.52	0.61	0.55	0.5	0.58	0.53	0.49	0.47
5	0.75	0.62	0.53	0.46	0.72	0.6	0.52	0.42	0.58	0.5	0.45	0.55	0.49	0.44	0.53	0.47	0.43	0.4
6	0.69	0.56	0.47	0.41	0.67	0.55	0.46	0.37	0.52	0.45	0.39	0.5	0.43	0.38	0.48	0.42	0.38	0.35
7	0.64	0.51	0.42	0.36	0.62	0.5	0.41	0.33	0.47	0.4	0.35	0.45	0.39	0.34	0.44	0.38	0.34	0.31
8	0.6	0.46	0.38	0.32	0.58	0.45	0.37	0.3	0.43	0.36	0.31	0.42	0.35	0.31	0.4	0.34	0.3	0.28
9	0.56	0.43	0.34	0.29	0.54	0.42	0.34	0.27	0.4	0.33	0.28	0.39	0.32	0.28	0.37	0.31	0.27	0.25
10	0.52	0.39	0.31	0.26	0.51	0.38	0.31	0.25	0.37	0.3	0.26	0.36	0.3	0.25	0.34	0.29	0.25	0.23

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Alphalite Inc.

-MMS control pre-commissioning

Sample Number: -MMS (10-3M-L3-S10M)

10	3M	L3	S10M	(Blank)
Detection Area	Hold Time	Low Mode	Stand-by Period	Daylight Sensor
10 - 100%	30M - 30 min.	L5 - 50%	SN - ∞	(Blank) - Disable
7 - 75%	20M - 20 min.	L3 - 30%	S1H - 1 hr.	D100 - 100 lux
5 - 50%	3M - 3 min.	L2 - 20%	S30M - 30 min.	D50 - 50 lux
1 - 10%	30S - 30 sec.	L1 - 10%	S10M - 10 min.	D25 - 25 lux
	5S - 5 sec.		S5M - 5 min.	D10 - 10 lux
			S5S - 5 sec.	D5 - 5 lux
			(Blank) - Disable	D2 - 2 lux

Detection Area: Detection area can be reduced to fit precisely each application.

Hold Time: The time period the luminaire remains at 100% illumination after no motion detected.

Low Mode: The selected low light level after the hold time.

Stand-by Period: The time period the luminaire remains at "Low Mode" before it completely switched off in the long absence of people.

When set to "~" mode, the low light level is maintained until motion is detected.

Daylight Sensor: The sensor can be set to only allow the luminaire to illuminate below a defined ambient brightness threshold.

When set to "Disable" mode, the daylight sensor will switch on the luminaire when motion is detected regardless of ambient light level.

**Noted that daylight sensor is active only when the luminaire switches of $f^{\star\star}$

-OS control pre-commissioning

Sample Number: -OS (L2-5M-L3-S10M)

L2	(Blank)	5M	L3	S10M	(Blank)	(Blank)	(Blank)
Lens / Coverage	High Mode	Hold Time	Low Mode	Stand-by	Ramp Up	Fade Down	Photocell
L2 - 8'H (48' dia.)	(Blank) - 100%	#M - 1-30 min.	L5 - 50%	Period	(Blank) - Disable	(Blank) - Disable	On/Off
L3 - 20'H (40' dia.)	H9 - 90%	30S - 30 sec.	L3 - 30%	SN - ∞	#Up - 1-60 sec.	#Dn - 1-60 sec.	(Blank) - Disable
L4 - 40'H (60' dia.)	H8 - 80%		L2 - 20%	S#H - 1-5 hrs.			PS - Active
L7 - 40'H (100' dia.)	H7 - 70%		L1 - 10%	S#M - 1-59 min.			
				(Blank) - Disable			

High Mode: The selected high light level when motion detected.

Hold Time: Time period the luminaire remains at "High Mode" after no motion detected.

Low Mode: The selected low light level after the hold time.

Stand-by Period: Time period the luminaire remains at "Low Mode" before it completely switched off in the long absence of people.

When set to " ∞ " mode, the low light level is maintained until motion is detected.

Ramp Up: Time period for light level to increase from LOW to HIGH.

Fade Down: Time period for light level to decrease from HIGH to LOW.

Photocell On/Off: When the light level exceeds this setting, the lights will turn off even when the space is occupied. Once the light level exceeds this setting, the sensor will wait and monitor for a short period of time in order to confirm the light level increase is not temporary before forcing the lights to go off. When light level goes below the settings, the light will turn on even without motion detection. This feature is disabled by default. If using this setting in combination with the Hold Off set-point, there must be at least 10fc of dead band between the two settings. The Photocell set-point is automatically set to maintain at least 10fc of dead band above the Hold time set-point to help avoid load cycling.