

W16S GEN. 5 CLASSIC WALL PACK

**SELECTABLE COLOR TEMPERATURE (3 000/4 000/5 000 K)
POWER SELECTABLE
INTEGRATED PHOTOCELL
MULTI-VOLTAGE (120-347 V)**



This wall pack series has the classic and familiar design but with a new and updated slimmer profile. All configurations come with an integrated photocell, selectable power and color temperature, as well as with modern LED technology to promote better energy efficiency and long life. This series is best suited for entrances, underpasses or anywhere controlled security lighting is required and is a great addition to any commercial or industrial outdoor wall mount application. The tough die cast aluminum housing is moisture and dustproof.

FEATURES & SPECIFICATIONS

CONSTRUCTION

Physical Characteristics

- This luminaire is made of aluminum die cast and comes standard in a bronze powder coat finish.
- The housing has four conduit entries of 1/2" on each side.
- Each model has an integrated 120-347 V button type photocell that can be easily turned off.

- Optional sensor receptacle makes for easy plug-and-play installation of motion sensors. Sensors are sold separately, see accessories table for more details.

Lens

Prismatic tempered glass lens is standard in this product series.

Mounting

Wall and surface mount to a junction box.

PERFORMANCE DATA

- Selectable color temperature 3 000/4 000/5 000 K, default programming at 4 000 K
- 80+ CRI
- 0-10 V dimming
- Electrical ratings: 120-347 V
- Estimated life of over 50 000 hours to L70
- 6 kV surge protection
- Operating temperature: -40 °C to 50 °C (-40 °F to 122 °F)

COMPLIANCES

- UL certified, Wet location
- Meets requirements of ICES-005 5 for class A products
- IP65
- IK04

OVERVIEW			
LIGHT SOURCE	LED	EFFICIENCY (LM/W)	139-160
WATTS (W)	25/30/40, 60/80/100 120	COLOR TEMPERATURE (K)	3 000/4 000/5 000
LUMENS OUTPUT (LM)	3 855-17 430	CRI	80+
3CCT SELECTABLE POWER SELECTABLE QUICKSHIP LED DIMMABLE WET LOCATION IP RATING IMPACT RESISTANCE ICES 005 DLC LISTED PREMIUM UL CERTIFIED FCC			

Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/search.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

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QUICK SHIP ORDERING GUIDE



PART NUMBER	WATTS [W]	VOLTS [V AC]	COLOR TEMP. [K] ¹	LUMEN OUTPUT [LM] ^{2,3}	EFFICIENCY [LM/W]	CRI	LIFE L70 [HRS] ⁴	TESTED HOURS LM-80 [HRS] ⁴	CALCULATED TM21 [HRS] ⁴	BUG	LED CURRENT [MA]	FINISH	PHOTOCELL (YES/NO)	DIMMING (YES/NO)	PF	THD [%]	TRADITIONAL EQUIVALENT [W]	MASTER CASE QTY
CCT AND POWER SELECTABLE WITH INTEGRATED PHOTOCELL⁵																		
W16S-PS40B-323C8R	25/30/40	120-347	3 000/4 000/5 000	4 010/4 646/5 981 ⁴	148-160	80+	50 000	9 000	>54 000	B1U3G3	550	BRONZE	YES	YES	≥0.90	≤20	150-175	1
W16S-PS100B-323C8R	60/80/100	120-347	3 000/4 000/5 000	8 819/12 053/14 554	153-156	80+	50 000	17 000	44 000	B3U4G5	410	BRONZE	YES	YES	≥0.90	≤20	250-400	1
W16S-NS120B-323C8R	120	120-347	3 000/4 000/5 000	17 430	154	80+	50 000	17 000	43 000	B3U5G5	490	BRONZE	YES	YES	≥0.90	≤20	400-750	1

¹ Typical color temperature range: +/- 5 %.

² Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

³ Lumen values are derived from DLC reported data at 3 000 K. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.

⁴ Lumen values are based on 4 000 K default programming. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.

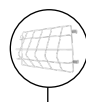
⁵ Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 extrapolations.

⁶ Integrated ON/OFF photocell that can be easily disabled.

DLC UNIQUE ID TABLE

PART NUMBER	DLC PREMIUM UNIQUE ID ¹
W16S-PS40B-323C8R	S-R867B7
W16S-PS100B-323C8R	S-XFKKXK
W16S-NS120B-323C8R	S-HFGVN8

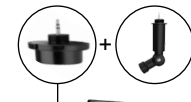
¹ Primary Use Designation: Outdoor Non-Cutoff and Semi-Cutoff Wall-Mounted Area Luminaires.



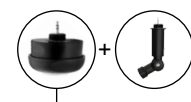
Wireguard



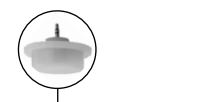
Bronze glareshield



CTRL-KBC1-002-WAVE+
OSI-KBO-003-WAVE



CTRL-KBO-003-WAVE+
OSI-PIR106-W-WAVE



OSI-EFS06R.B1

ACCESSORIES (ORDER SEPARATELY)

PART NUMBER	DESCRIPTION
WGD915	Wireguard
GS013-BR	Bronze Glareshield
EFS06R.B1 ¹	External High Frequency Sensor EFS06R.B1
OSI-RM51	Remote Control RM51

¹ To change factory setting, purchase remote OSI-RM51 (sold separately).

SMART ACCESSORIES (ORDER SEPARATELY)

PART NUMBER	DESCRIPTION
CTRL-KBC1-002-WAVE ¹	Wave Bluetooth [®] Mesh External low voltage fixture controller black
CTRL-KBO-003-WAVE	Outdoor arm extension black
OSI-PIR106-W-WAVE	Wave Bluetooth [®] Mesh Outdoor PIR audio jack sensor black

¹ Compatible with scheduling only.

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CONFIGURABLE TECHNICAL SPECIFICATION TABLE

PART NUMBER	WATTS [W]	3 000 K		4 000 K		5 000 K	
		LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]
W16S-PS40B-323CBR	25	3 855	150	4 010	160	4 083	157
	30	4 433	148	4 646	158	4 713	154
	40	5 691	139	5 981	148	5 831	143
W16S-PS100B-323CBR	60	8 678	149	8 819	154	8 699	149
	80	11 678	146	12 053	153	11 741	146
	100	13 574	142	14 554	156	13 676	143
W16S-NS120B-323CBR	120	16 491	140	17 430	154	16 582	141

DEFAULT PROGRAMMING

W16S-PS40B-323CBR: 40 W / 4 000 K

W16S-PS100B-323CBR: 100 W / 4 000 K

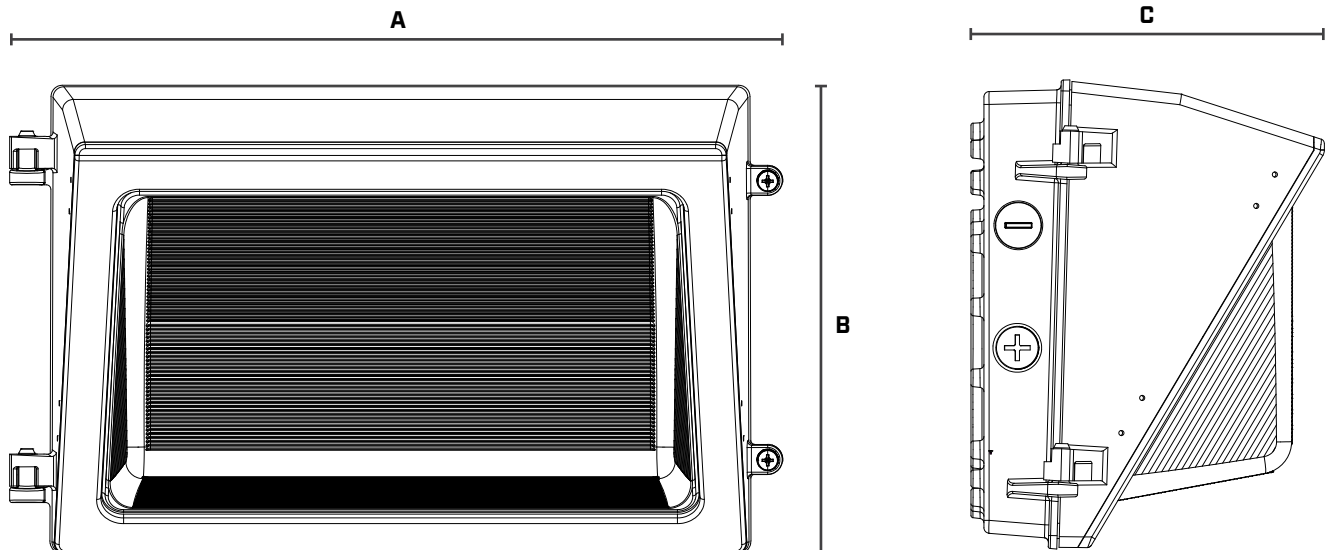
W16S-NS120B-323CBR: 4 000 K

ORDERING GUIDE

W16S	—	32	—	3C	—	BR	/	SR
SERIES	LUMEN PACKAGE [W]	VOLTS [V]	COLOR TEMP. [K]		CASTING COLOR		OPTION	
W16S	PS40B PS100B NS120B	32 - 120-347	3C - 3 000/4 000/5 000		BR - BRONZE		SR ¹ - SENSOR RECEPTACLE	

¹ Smart sensor must be purchased separately, refer to accessories tables for more details.

DIMENSIONS AND WEIGHTS



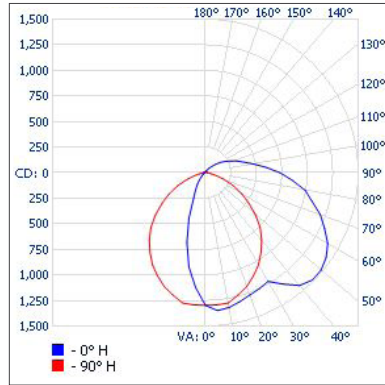
A IN. [MM]	14.2" [360]
B IN. [MM]	8.6" [218]
C IN. [MM]	6.5" [164.5]
NET WEIGHT [LBS]	7.49

W16S GEN. 5

PHOTOMETRIC DATA¹

W16S-PS40B-323CXX • 40 W • 4 000 K • 5 981 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 330.2	21.2
0-40	2 088.5	33.2
0-60	3 733.5	59.4
60-90	1 806.1	28.7
70-100	1 364.3	21.7
90-120	615.9	9.8
0-90	5 539.7	88.1
90-180	748.4	11.9
0-180	6 288.1	100

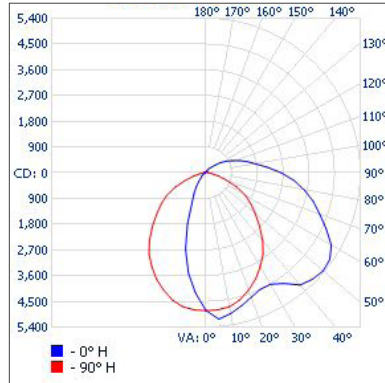
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
8.3'	29.7	21.0'	19.6'
16.7'	7.33	42.3'	39.4'
25.0'	3.27	63.3'	58.9'
33.3'	1.84	84.3'	78.5'
41.7'	1.18	105.5'	98.3'
50.0'	0.62	126.5'	117.9'

■ Vert. Spread: 103.4° ■ Hor. Spread: 99.4°

W16S-PS100B-323CXX • 100 W • 4 000 K • 14 554 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	3 143.2	21.7
0-40	4 902.9	33.81
0-60	8 682.7	59.81
60-90	4 080.0	28.1
70-100	3 064.9	21.1
90-120	1 436.1	9.9
0-90	12 762.8	87.9
90-180	1 749.2	12.1
0-180	14 512.0	100

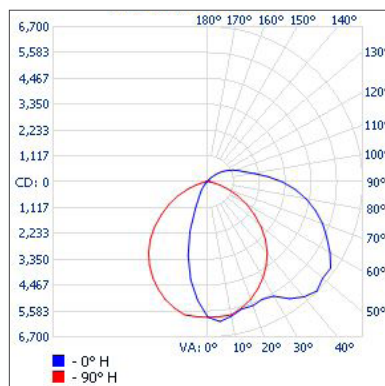
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
8.3'	70.0	21.7'	18.7'
16.7'	17.3	43.6'	37.7'
25.0'	7.71	65.3'	56.4'
33.3'	4.35	87.0'	75.1'
41.7'	2.77	108.9'	94.1'
50.0'	1.93	130.6'	112.8'

■ Vert. Spread: 105.1° ■ Hor. Spread: 96.9°

W16S-NS120B-323CXX • 120 W • 4 000 K • 17 430 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	3 817.5	21.1
0-40	5 995.3	33.2
0-60	10 738.1	59.4
60-90	5 219.0	28.9
70-100	3 918.2	21.7
90-120	1 726.6	9.6
0-90	15 957.0	88.3
90-180	2 110.2	11.7
0-180	18 067.2	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
8.3'	84.9	21.2'	20.2'
16.7'	21.0	42.7'	40.6'
25.0'	9.35	63.9'	60.8'
33.3'	5.27	85.1'	81.0'
41.7'	3.36	106.5'	101.4'
50.0'	2.34	127.7'	121.6'

■ Vert. Spread: 103.9° ■ Hor. Spread: 101.1°

¹ Complete IES files available on our website.