

Project _____
Catalogue n° _____

Type _____
Date _____

 **AimLite**

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

Housing

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

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: 120-347V
- 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+
WARRANTY 5 YEAR WARRANTY CCT: 3CCT SELECTABLE W: POWER SELECTABLE QUICKSHIP LED DIMMABLE WET LOCATION 65 IP RATING IK04 IMPACT RESISTANCE ICES 005 DLC LISTED PREMIUM UL CERTIFIED FCC			

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.

W16S GEN 5

QUICK SHIP ORDERING GUIDE



MODEL NUMBER	WATTS [W]	VOLTS [VAC]	COLOR TEMP. [K] ¹	LUMEN OUTPUT [LM] ²	EFFICIENCY [LM/W]	CRI	LIFE L70 [HRS] ⁴	TESTED HOURS LM-80 [HRS] ⁴	CALCULATED TM21 [HRS] ⁴	BUG	LED CURRENT [MA]	FINISH	PHOTO-CELL [YES/NO]	DIMMING [YES/NO]	PF	THD [%]	TRADITIONAL EQUIVALENT [W]	MAS-TER CASE QTY
CCT and Power Selectable with Integrated Photocell ⁶																		
W16S-PS40B-323CBR	25/30/40	120-347	3 000/4 000/5 000	4 010/4 646/5 981	148-160	80+	50 000	9 000	>54 000	B1U3G3	550	Bronze	Yes	Yes	≥0.90	≤20	150-175	1
W16S-PS100B-323CBR	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-323CBR	120	120-347	3 000/4 000/5 000	17430	154	80+	50 000	17 000	43 000	B3U5G5	490	Bronze	Yes	Yes	≥0.90	≤20	400-750	1
W16S-PS40B-323CBK	25/30/40	120-347	3 000/4 000/5 000	4 010/4 646/5 981	148-160	80+	50 000	9 000	>54 000	B1U3G3	550	Black	Yes	Yes	≥0.90	≤20	150-175	1
W16S-PS100B-323CBK	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	Black	Yes	Yes	≥0.90	≤20	250-400	1
W16S-NS120B-323CBK	120	120-347	3 000/4 000/5 000	17 430	154	80+	50 000	17 000	43 000	B3U5G5	490	Black	Yes	Yes	≥0.90	≤20	400-750	1
W16S-PS40B-323CWH	25/30/40	120-347	3 000/4 000/5 000	4 010/4 646/5981	148-160	80+	50 000	9 000	54 000	B1U3G3	550	White	Yes	Yes	≥0.90	≤20	250-400	1
W16S-PS100B-323CWH	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	White	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 based on 4 000 K default programming. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.

⁴ 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.

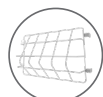
DLC UNIQUE ID TABLE

Model number	DLC Premium Unique ID ¹
W16S-PS40B-323CBR	S-R867B7
W16S-PS100B-323CBR	S-XFKKXX
W16S-NS120B-323CBR	S-HFGVN8
W16S-PS40B-323CBK	S-R867B7
W16S-PS100B-323CBK	S-XFKKXX
W16S-NS120B-323CBK	S-HFGVN8
W16S-PS40B-323CWH	S-R867B7
W16S-PS100B-323CWH	S-XFKKXX

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

ACCESSORIES (order separately)

Order code	Description
WGD915	Wireguard
GS013-BR	Bronze glareshield
GS013-BK	Black glareshield
GS013-WH	White glareshield



Wireguard



Bronze
glareshield



Black
glareshield



White
glareshield

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CONFIGURABLE TECHNICAL SPECIFICATION TABLE

Model 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
W16S-PS40B-323CBK	30	4 433	148	4 646	158	4 713	154
W16S-PS40B-323CWH	40	5 691	139	5 981	148	5 831	143
W16S-PS100B-323CBR	60	8 678	149	8 819	154	8 699	149
W16S-PS100B-323CBK	80	11 678	146	12 053	153	11 741	146
W16S-PS100B-323CWH	100	13 574	142	14 554	156	13 676	143
W16S-NS120B-323CBR	120	16 491	140	17 430	154	16 582	141
W16S-NS120B-323CBK							

DEFAULT PROGRAMMING

W16S-PS40B-323CBR_W16S-PS40B-323CBK_W16S-PS40B-323CWH: 40 W / 4 000 K

W16S-PS100B-323CBR_W16S-PS100B-323CBK_W16S-PS100B-323CWH: 100 W / 4 000 K

W16S-NS120B-323CBR_W16S-NS120B-323CBK: 4 000 K

COMPATIBLE DIMMERS¹

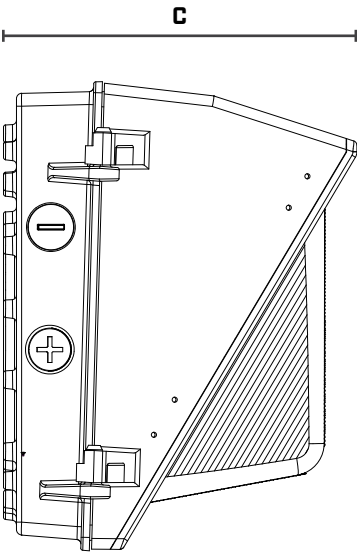
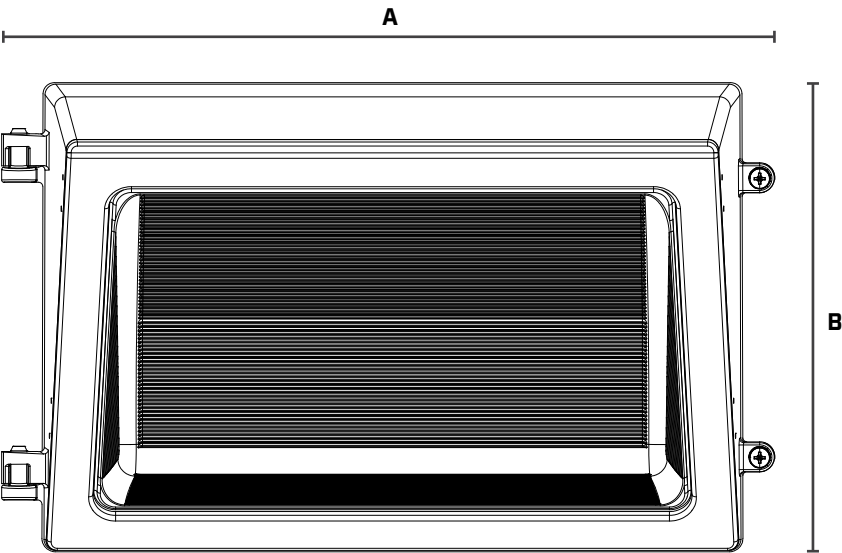
Brand	Model
Leviton	DS710
Leviton	IP710
Lutron	NTSTV-DV
Lutron	NFTV
Lutron	DVTV-WH
Legrand	H4FBL3PW

Dimming range: 0%-100%

¹ This table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. Some dimmers may require more than one product for stable operation. Aimlite recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation.

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DIMENSIONS AND WEIGHTS



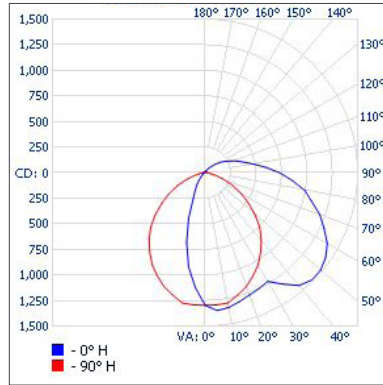
A in. (mm)	14.2" (360)
B in. (mm)	8.6" (218)
C in. (mm)	6.5" (164.5)
Net weight (lbs)	7.49

W16S GEN 5

PHOTOMETRIC DATA¹

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

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

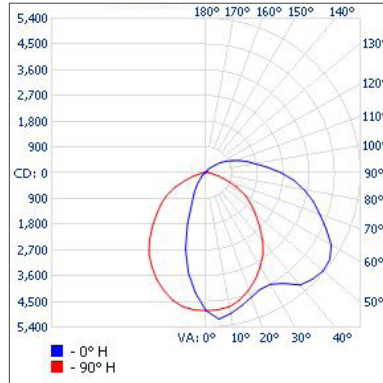
ZONE	LUMENS	% FIXTURE
0-30	1 330.2	21.2
0-40	2 088.5	33.2
0-60	3 733.5	59.4
60-90	1 806.1	28.7
70-100	1 364.3	21.7
90-120	615.9	9.8
0-90	5 539.7	88.1
90-180	748.4	11.9
0-180	6 288.1	100

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

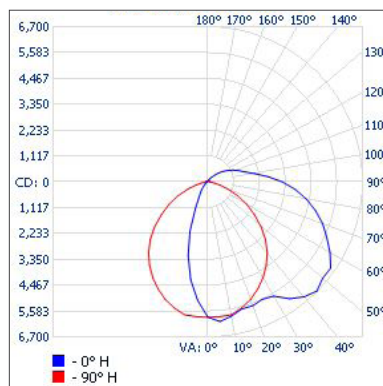
ZONE	LUMENS	% FIXTURE
0-30	3 143.2	21.7
0-40	4 902.9	33.81
0-60	8 682.7	59.81
60-90	4 080.0	28.1
70-100	3 064.9	21.1
90-120	1 436.1	9.9
0-90	12 762.8	87.9
90-180	1 749.2	12.1
0-180	14 512.0	100

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.