

WASHDOWN 8M



ABOUT THE LUSIO WASHDOWN SERIES

The Lusio Commercial and Industrial Washdown Series features LED high bay fixtures for use in demanding environments that require watertight seals including food/beverage processing, cold storage, warehouses, garden centers, and industrial facilities. Engineered with the latest energy efficient LED technology, each Lusio Washdown model includes an injection molded fiberglass body with a sturdy lens to withstand environments where extreme dust and moisture are factors.

WASHDOWN 8M FIXTURE DESCRIPTION

The eight module (8M) washdown fixture features a water-tight housing (nominal 4 x 1 ft or 122 x 30.5 cms). The fixture is available in two LED color temperatures (nominal 5200K and 3985K) and with three lens choices including clear options for maximum light output and frosted options for enhanced glare control.

WASHDOWN 8M • LIGHT OUTPUT

	WATTAGE ¹	LUMENS ¹	EFFICACY ¹	CRI ²
CLEAR, POLYCARBONATE LENS (CLPC)				
COOL WHITE (5200K +/- 475K) ³	242	21,200	87.6	70
NEUTRAL WHITE (3985K +/- 275K) ³	242	21,200	87.6	70
CLEAR, ACRYLIC LENS (CLAC)				
COOL WHITE (5200K +/- 475K) ³	242	22,300	92.1	70
NEUTRAL WHITE (3985K +/- 275K) ³	242	22,300	92.1	70
FROSTED, ACRYLIC LENS (FRAC)				
COOL WHITE (5200K +/- 475K) ³	242	21,800	90.1	70
NEUTRAL WHITE (3985K +/- 275K) ³	242	21,800	90.1	70

¹Typical ²Typical CRI. Contact factory if your application has specific requirements of 70 CRI minimum or higher.

³Consult factory for other CCT offerings. Lead times may be longer.

WASHDOWN 8M • DIMENSIONS: INS (CMS)¹

LENGTH	WIDTH	DEPTH ²	WEIGHT
52-3/8 (133)	14-5/8 (37.1)	CLPC, CLAC, FRAC 6 (15.2)	24 LBS (10.9 KGS)

¹Dimensions listed are for the fixture only. See dimensional drawings for measurements with mounting hardware.

²CLPC: Clear, polycarbonate lens CLAC: Clear, acrylic lens FRAC: Frosted, acrylic lens

NOTES

WASHDOWN 8M • FEATURES

POWER

- **POWER INPUT:** 100-277V, 347-480V (50/60 Hz). Consult factory for lead time on 347-480V models.
- **DRIVE CURRENT:** 700mA
- **DIMMING:** Optional factory installed dimmable power supply (10-100% dimming) that interfaces to standard third party 0-10v dimmers.

	TYPICAL POWER FACTOR	TYPICAL TOTAL HARMONIC DISTORTION
120V	0.996	6.5%
277V	0.945	12.9%
347V	0.976	18.0%
480V	0.940	18.9%

RELIABILITY/LUMEN MAINTENANCE

- Reported 93% lumen maintenance (L93) at 60,000 hours

FIXTURE

- **ENVIRONMENT:** Wet, high pressure washdown, interior or exterior applications.
- **HOUSING:**
 - UL 5VA fiberglass housing (will not melt or burn).
 - Weatherability (f1) rated. Suitable for outdoor use with respect to exposure to ultraviolet light, water exposure and immersion in accordance with UL 746.
- **LENSES:** Lenses are high efficiency, UV stabilized acrylic or polycarbonate. **Consult acrylic/polycarbonate compatibility chart for guidance in selecting the appropriate lensing material for your application.**
- **MOUNTING CLIPS:** Stainless steel. Cables supplied by others or see Accessories for Lusio cable kits.
- **WARRANTY:** Limited product only 5-year warranty. See complete warranty coverage and exclusions details online at www.LusioLighting.com.
- **REPLACEABLE LED LIGHT MODULES:** Allows field replacement of individual light modules. See Installation Instructions.

• AMBIENT OPERATING TEMPERATURE:

SURFACE	-4° to 77°F (-20° to 25°C)	SUSPENSION	-4° to 86°F (-20° to 30°C)
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LISTINGS AND CERTIFICATIONS

- ETL
- NSF (non-food zone and splash zone)
- NEMA 4X
- IP66
- RoHS compliant
- FCC Class A
- Made in the USA (contact factory)
- Lighting Facts (U.S. Department of Energy) certified



WASHDOWN 8M SAMPLE ORDERING NUMBER¹

LW-LUSIO-WD-8M-CW-CLAC-120-DIM-C15

PHOTO



LW-LUSIO-WD-8M			
PART NUMBER	LED COLOR TEMPERATURE	LENS OPTIC AND MATERIAL ³	VOLTAGE
	CW Cool white ² 5200K +/- 475K NW Neutral white ² 3985K +/- 275K	CLPC Clear, polycarbonate CLAC Clear, acrylic FRAC Frosted, acrylic	120 120V 208 208V 240 240V 277 277V 347 347V ⁴ 480 480V ⁴
DIMMING	CORD/PLUG	MOUNTING	
DIM Dimming For no dimming, leave part number field blank	C6 6 ft (1.8 m), 600v SOW cord, no plug ⁵ C15 15 ft (4.6 m), 600v SOW cord, no plug ⁵ For no cord/plug, leave part number field blank	RMT Rigid mounting bracket for surface or dual pendant mounting ⁶ For cable ready fixtures, leave part number field blank ⁷	

NOTES

- Information on Lusio accessories is available on a separate specification sheet.
- Consult factory for other CCT/CRI offerings. Lead times may be longer.
- Consult acrylic/polycarbonate compatibility chart for guidance in selecting the appropriate lensing material for your application.

- Consult factory for lead time.
- All cords are 18/3, 6 ft (1.8 m) or 15 ft (4.6 m) long.
- Bracket supplied by Lusio. Lock nut and other connecting hardware supplied by others. See Installation Instructions for more information.
- The LW-LUSIO-WD-8M is delivered with four mounting straps. Cables supplied by others or see Accessories for Lusio cable kits.



LENS: CLEAR, ACRYLIC

Fixture Data

Part No: LW-LUSIO-WD-8M-CW-CLAC

CCT: Cool White

Fixture Lumen Output: 22,300 lms

Fixture Wattage: 242W (120-277V).....

Fixture Efficacy Rating: 92.1 lm/W

Spacing Criteria

Diagonal	1.4	
Lateral Plane	0°-180°	90°-270°
	1.3	1.38

CCT Light Output Conversions

NEUTRAL WHITE: 1.00

Test date: 7-FEB-2013

Tests done in accordance with LM79. Consult factory for LM79 reports.
See www.lusiolighting.com for IES files.

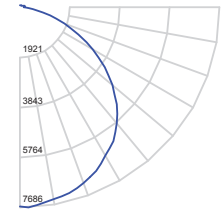
Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	6,040.0	27%
0° - 40°	9,977.8	45%
0° - 60°	17,794.2	80%
0° - 90°	21,523.1	97%
0° - 180°	22,300.0	100%

Candela Distribution Array

	0°	45°	90°
0°	7,655	7,655	7,655
10°	7,495	7,449	7,498
20°	7,184	7,191	7,266
30°	6,583	6,768	6,836
40°	5,798	6,104	5,089
50°	4,651	4,454	5,124
60°	3,245	3,727	3,463
70°	1,835	2,091	860
80°	685	368	312
90°	177	200	205

Candela Plot



Coefficients of Utilization

	RC	80				70				50				30				10				0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	99	97
1	109	104	100	96	105	101	98	94	97	94	91	92	90	87	88	86	84	82	81	79	77	69
2	99	91	85	79	96	89	83	78	85	80	76	81	77	73	78	74	71	69	67	64	61	58
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	64	61	58	56	52	50	43
4	83	71	63	56	80	70	62	55	67	60	54	64	58	53	61	56	52	50	48	44	40	38
5	76	64	55	48	74	62	54	48	60	52	47	57	51	46	55	50	45	43	41	37	34	30
6	70	57	48	42	68	56	48	42	54	47	41	52	45	40	50	44	40	38	36	32	29	27
7	65	52	43	37	63	51	43	37	49	42	36	47	41	36	46	40	35	33	31	27	24	21
8	61	47	39	33	59	46	38	33	45	37	32	43	37	32	42	36	32	30	28	24	21	18
9	56	43	35	30	55	42	35	29	41	34	29	40	33	29	39	33	28	27	25	21	18	15
10	53	40	32	27	51	39	32	27	38	31	26	37	31	26	36	30	26	24	22	18	15	12

RCR=Room Cavity Ratio RC=Effective Ceiling Cavity Reflectance RW=Wall Reflectance
Effective Floor Cavity Reflectance = 20%

LENS: CLEAR, POLYCARBONATE

Fixture Data

Part No: LW-LUSIO-WD-8M-CW-CLPC

CCT: Cool White

Fixture Lumen Output: 21,200 lms

Fixture Wattage: 242W (120-277V).....

Fixture Efficacy Rating: 88 lm/W

Spacing Criteria

Diagonal	1.42	
Lateral Plane	0°-180°	90°-270°
	1.3	1.36

CCT Light Output Conversions

NEUTRAL WHITE: 1.00

Test date: 8-FEB-2013

Tests done in accordance with LM79. Consult factory for LM79 reports.
See www.lusiolighting.com for IES files.

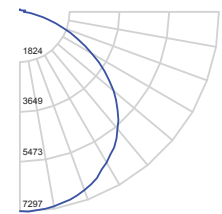
Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	5,802.3	27%
0° - 40°	9,609.4	45%
0° - 60°	17,038.5	80%
0° - 90°	20,540.7	97%
0° - 180°	21,199.9	100%

Candela Distribution Array

	0°	45°	90°
0°	7,282	7,282	7,282
10°	7,217	7,160	7,182
20°	6,928	6,898	6,967
30°	6,359	6,527	6,579
40°	5,579	5,847	4,789
50°	4,489	4,131	4,949
60°	3,056	3,319	3,547
70°	1,707	1,960	955
80°	645	316	254
90°	159	169	156

Candela Plot



Coefficients of Utilization

	RC	80				70				50				30				10				0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	87	85	82	81	79	77	69
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	69	67	64	61	58
3	91	80	73	66	88	79	71	66	75	69	64	72	67	63	69	65	61	59	57	53	50	43
4	83	71	63	56	81	70	62	56	67	60	55	64	58	54	62	57	53	50	48	44	40	38
5	76	64	55	48	74	62	54	48	60	53	47	58	51	46	56	50	46	44	42	38	34	30
6	70	57	49	42	68	56	48	42	54	47	41	52	46	41	50	45	40	38	36	32	29	27
7	65	52	43	37	63	51	43	37	49	42	37	47	41	36	46	40	36	34	32	28	24	21
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10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24	22	18	15	12

RCR=Room Cavity Ratio RC=Effective Ceiling Cavity Reflectance RW=Wall Reflectance
Effective Floor Cavity Reflectance = 20%

LENS: FROSTED, ACRYLIC

Fixture Data

Part No: LW-LUSIO-WD-8M-CW-FRAC

CCT: Cool White

Fixture Lumen Output: 21,800 lms

Fixture Wattage: 242W (120-277V).....

Fixture Efficacy Rating: 90 lm/W

Spacing Criteria

Diagonal	1.34	
Lateral Plane	0°-180°	90°-270°
	1.24	1.26

CCT Light Output Conversions

NEUTRAL WHITE: 1.00

Test date: 7-FEB-2013

Tests done in accordance with LM79. Consult factory for LM79 reports.
See www.lusiolighting.com for IES files.

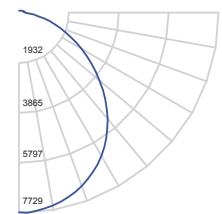
Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	5,945.3	27%
0° - 40°	9,645.1	44%
0° - 60°	16,458.9	76%
0° - 90°	20,709.8	97%
0° - 180°	21,800.0	100%

Candela Distribution Array

	0°	45°	90°
0°	7,719	7,719	7,719
10°	7,565	7,519	7,544
20°	7,122	7,132	7,177
30°	6,382	6,460	6,467
40°	5,342	5,450	5,351
50°	4,080	5,170	4,183
60°	2,804	2,919	2,963
70°	1,700	1,813	1,754
80°	780	1,813	1,754
90°	254	360	379

Candela Plot

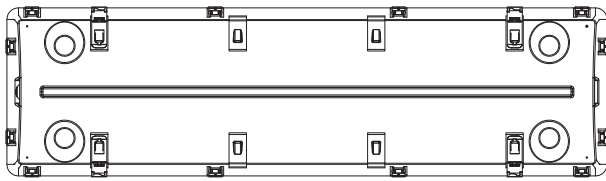


Coefficients of Utilization

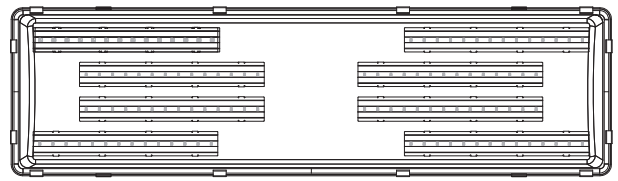
	RC	80				70				50				30				10				0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	97	97	97	97	97	97	97	95
1	107	103	98	94	104	100	96	92	95	92	89	90	87	85	86	84	82	79	78	74	72	66
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	75	72	69	66	64	60	58	56
3	89	79	71	64	86	77	70	64	73	67	62	70	65	60	67	62	58	56	54	50	48	42
4	82	70	61	55	79	68	60	54	65	58	53	62	56	52	60	55	50	48	46	42	40	34
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42	40	36	34	28
6	70	57	48	41	67	55	47	41	53	46	40	51	44	40	49	43	39	37	35	31	29	23
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9	56	43	35	29	55	42	35	29	41	34	29	39	33	28	38	32	28	26	24	20	17	13
10	53	40	32	27	51	39	32	27	38	31	26	36	30	26	35	30	26	24	22	18	15	11

RCR=Room Cavity Ratio RC=Effective Ceiling Cavity Reflectance RW=Wall Reflectance
Effective Floor Cavity Reflectance = 20%

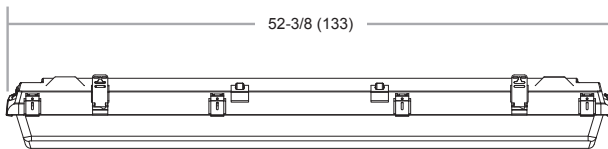
DIMENSIONS: INS (CMS)



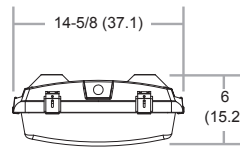
TOP VIEW



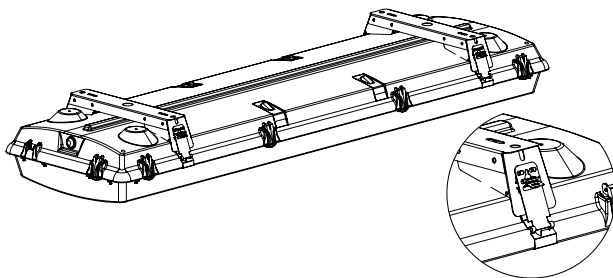
BOTTOM VIEW



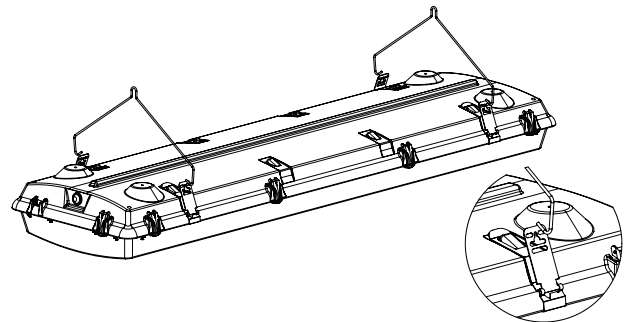
SIDE VIEW



END VIEW



RIGID MOUNTING BRACKET FOR SURFACE OR DUAL PENDANT INSTALLATION
(SEE INSTALLATION INSTRUCTIONS)



SUSPENSION (SEE INSTALLATION INSTRUCTIONS)