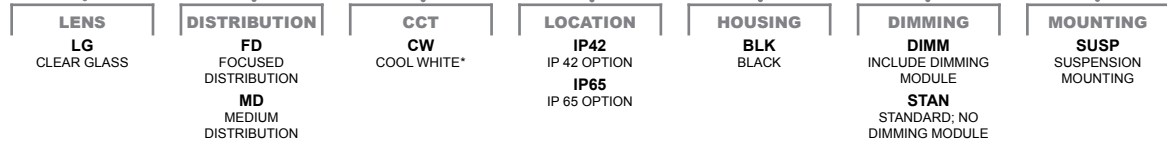


# LIGHTWILD LUSIO BAY LUMINAIRE SPECIFICATION SHEET

TYPE

## PART NUMBER

LW-LUSIO-BAY-LG- -CW- -BLK- -SUSP



## FEATURES & BENEFITS

(INFORMATION APPLIES TO A SINGULAR FIXTURE)

### POWER

- **POWER INPUT REQUIREMENTS:** 110-277 VAC (50/60 HZ)
- **OPERATING TEMPERATURE RANGE:** -22° TO 144° F (-30° TO 60° C)
- **LUMINOUS FLUX/ POWER CONSUMPTION:**  
**FOCUSED DISTRIBUTION:** 6,720 LM @ 103 W (65 LUMINAIRE EFFICACY RATING)  
**MEDIUM DISTRIBUTION:** 6,341 LM @ 103 W (62 LUMINAIRE EFFICACY RATING)

**NOTE:** LUMINOUS FLUX MEASUREMENTS ARE LISTED AT 77° F (25° C) OPERATING CONDITIONS AFTER THERMAL STABILIZATION.

POWER CONSUMPTION MEASUREMENTS ARE BASED ON THE AC POWER CONSUMPTION INCLUSIVE OF THE POWER SUPPLY.

- **DIMMING:** OPTIONAL MODULE INTERFACES TO LIGHTWILD OR THIRD PARTY DMX-BASED DIMMING CONTROL SYSTEMS.

*DIMMING REQUIRES ONE LIGHTWILD SERIES B CONTROL UNIT PER DIMMING ZONE. SEE DATA SHEET AT WWW.LIGHTWILD.COM/LUSIO*

### ILLUMINANCE/ OPTICAL PERFORMANCE

- BUILT WITH LENSED LED LIGHT ENGINES.
- CUSTOM DESIGNED OPTICALLY WEIGHTED REFLECTOR TAILORED TO PROVIDE EVEN ILLUMINANCE DISTRIBUTION ACROSS THE ILLUMINANCE PLANE; NO "HOT SPOTS" OR VARYING ILLUMINANCE LEVELS AT THE WORK PLANE.
- INSTANT ON. NO RAMP UP, FLICKER, OR BUZZING.
- **FOCUSED DISTRIBUTION:** METALIZED, SPECULAR REFLECTOR CREATES A UNIFORM, ROUND DISTRIBUTION WITH 98% OF LIGHT IN THE BEAM ANGLE. A 40° CUT-OFF ENSURES THERE IS NO GLARE. TYPICALLY USED FOR HIGH MOUNTING HEIGHTS.
- **MEDIUM DISTRIBUTION:** DIFFUSED, WHITE REFLECTOR CREATES A UNIFORM, ROUND DISTRIBUTION WITH HIGHER VERTICAL LIGHT LEVELS, APPROPRIATE FOR PUTTING LIGHT ON VERTICAL SURFACES. 75% OF LIGHT IS IN THE BEAM ANGLE. 50° CUT OFF ENSURES THERE IS NO GLARE. TYPICALLY USED FOR LOW TO MEDIUM MOUNTING HEIGHTS.

*SEE PHOTOMETRICS AND IES FILES FOR MORE INFORMATION AT WWW.LIGHTWILD.COM/LUSIO*

### OUTPUT COLOR

- **CCT:** 4150K +/- 350K STANDARD (COOL WHITE\*)
- **CRI:** 70 (TYPICAL)

### RELIABILITY/ LUMEN MAINTENANCE

- **B10L70 LIFE:** 60,000 HOURS MINIMUM
- ELECTRICAL SOFT START FUNCTIONALITY TO LIMIT IN-RUSH CURRENT.

### THERMAL MANAGEMENT

- LUMINAIRE DESIGN PROVIDES FOR MINIMAL HEAT BUILDUP WITHIN FIXTURE.
- INTEGRATED HEATSINK; NO NEED FOR EXTERNAL HEATSINK MOUNTING.
- VENTED STEEL ENCLOSURE MAXIMIZES NATURAL CONVECTIVE HEAT TRANSFER.
- THERMALLY OPTIMIZED PCB MATERIALS AND THERMAL LAYOUT.
- PCB, CASING AND FIXTURE ENCLOSURE COMBINATION PROVIDE FOR REDUCED LED JUNCTION TEMPERATURE AT ELEVATED AMBIENT OPERATING CONDITIONS.

### SUITABLE ENVIRONMENTAL CONDITIONS

- IP42 AND IP65 MOISTURE RATED OPTIONS AVAILABLE.

### MECHANICAL FEATURES

- **RELAMPABLE LED LIGHT ENGINES:** ALLOWS FIELD REPLACEMENT OF INDIVIDUAL LIGHT ENGINES WITHOUT THE NEED TO UNINSTALL FIXTURE.
- QUICK DISCONNECT OF POWER CONNECTION TO LED LIGHT ENGINE.
- SUSPENSION MOUNTING STANDARD. (CABLE AVAILABLE FROM LIGHTWILD OR OPTIONALLY PROVIDED BY OTHERS.)
- FACTORY PRE-WIRED FOR EASY FIELD INSTALLATION.

### AVAILABLE HOUSING COLORS

- SATIN BLACK POWDER COAT WITH MULTI-STAGE CORROSION RESISTANT PRE-TREATMENT IS STANDARD. CONTACT LIGHTWILD FOR PRICING AND ORDERING MINIMUMS ON WHITE HOUSINGS.

### WARRANTY

- LIGHTWILD OFFERS A LIMITED 5-YEAR WARRANTY. SEE LIGHTWILD.COM FOR FULL WARRANTY INFORMATION.

### OTHER FEATURES

- **RoHS COMPLIANT**
- **LUMINAIRE WEIGHT:** APPROXIMATELY 48 POUNDS (21.7 KGs) PER LUMINAIRE
- **LISTINGS:** UL LISTED FOR SAFETY (1598), CE.

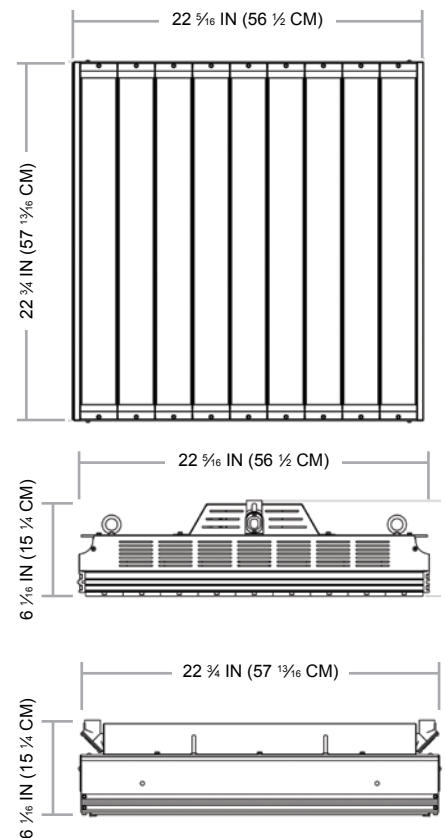
### ACCESSORIES/REPLACEMENT LIGHT ENGINES

- SEE WWW.LIGHTWILD.COM/LUSIO

## PRODUCT IMAGE



## DIMENSIONS



DOWNLOAD CAD FILES, INSTALLATION INSTRUCTIONS, AND WIRING DIAGRAMS AT WWW.LIGHTWILD.COM/LUSIO

\* FOR MARKETING PURPOSES, LIGHTWILD USES THE TERMS "WARM WHITE" AND "COOL WHITE" TO CLASSIFY ITS WHITE PRODUCTS. FOR PHOTOMETRIC TESTING (VIEW AND DOWNLOAD RESULTS AT WWW.LIGHTWILD.COM), LIGHTWILD RECOGNIZES THE AMERICAN NATIONAL STANDARD INSTITUTE (ANSI) SPECIFICATIONS FOR THE CHROMATICITY OF SOLID STATE LIGHTING PRODUCTS AND ITS NINE TARGET CCTs FOR WHITE LIGHTING:

- |                                      |                               |                            |                                |                                |
|--------------------------------------|-------------------------------|----------------------------|--------------------------------|--------------------------------|
| • INCANDESCENT WHITE (2725K +/- 145) | • WARM WHITE (3045K +/- 175)  | • WHITE (3465K +/- 245)    | • COOL WHITE (3985K +/- 275)   | • COOL WHITE 2 (4503K +/- 243) |
| • SUN WHITE (5028K +/- 283)          | • SUN WHITE 2 (5665K +/- 355) | • DAYLIGHT (6530K +/- 510) | • FLEXIBLE CCT (2700K - 6500K) |                                |

# Photometrics • Lusio Bay • Focused Distribution

► Part No. LW-LUSIO-BAY-LG-FD-CW

**Total Thermally Stabilized Lumens:** 6,720  
**Kelvin:** 4150K +/- 350K (standard)

**Fixture Wattage:** 103W (110-277 VAC)  
**Luminaire Efficacy Rating:** 65

**Spacing Criteria**  
 Lateral Plane      0°      90°  
                                  1.5      1.5

*Photometry results from actual luminaire tested at 3950K.*

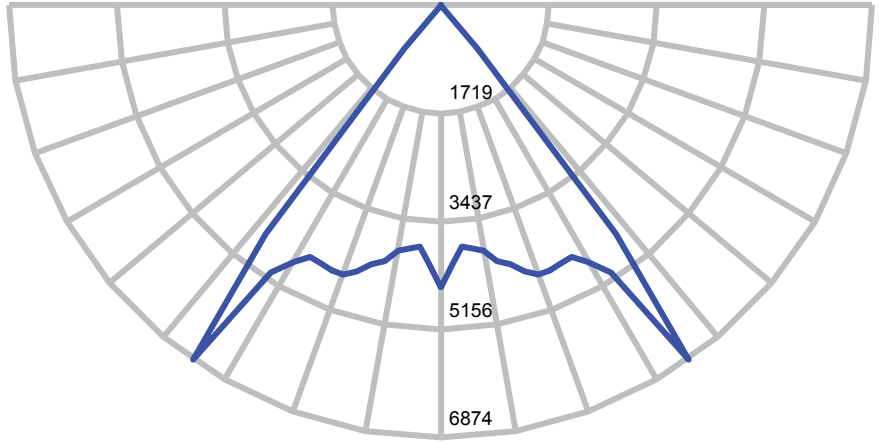
► **Beam Data**



Height	Beam Center Footcandles	Beam Diameter
10 ft	44.9	14.1 ft
12 ft	31.2	16.9 ft
15 ft	19.9	21.1 ft
18 ft	13.9	25.3 ft
20 ft	11.2	28 ft
25 ft	7.2	35 ft

► **Polar Candela Distribution**

*Quadrilaterally Symmetric*



► **Coefficients of Utilization - Zonal Cavity Method**

*Effective Floor Cavity Reflectance: 0.20*

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	0					
0	126	126	126	126	123	123	123	123	118	118	118	118	113	113	113	108	108	108	106					
1	120	117	114	112	117	115	112	110	110	108	106	106	105	103	103	103	101	100	98					
2	114	108	103	100	111	106	102	99	103	99	96	100	97	94	97	94	92	91						
3	107	100	94	90	105	98	93	89	96	91	88	93	89	86	91	86	85	83						
4	101	92	86	81	99	91	85	81	89	84	80	87	82	79	85	81	78	76						
5	95	86	79	74	93	85	78	74	83	77	73	81	76	72	79	75	72	70						
6	90	79	73	68	88	79	72	67	77	71	63	75	70	66	74	69	66	64						
7	85	74	67	62	83	73	66	62	72	66	61	70	65	61	69	64	61	59						
8	80	69	62	57	78	68	61	57	67	61	57	66	60	56	65	60	56	54						
9	75	64	57	52	74	63	57	52	62	56	52	61	56	52	60	55	52	50						
10	71	60	53	48	70	59	53	48	58	52	48	57	52	48	57	52	48	46						

► **Zonal Lumen Summary**

Zone	Lumens	Zone	Lumens	% of Fixture
0° - 10°	368.7	0° - 30°	3,670.7	54.6
10° - 20°	1,198.6	0° - 40°	6,608.3	98.3
20° - 30°	2,103.3	0° - 60°	6,712.0	99.9
30° - 40°	2,937.6	0° - 90°	6,720.0	100
40° - 50°	96.4	90° - 120°	0	0
50° - 60°	7.3	90° - 130°	0	0
60° - 70°	4.1	90° - 150°	0	0
70° - 80°	2.5	90° - 180°	0	0
80° - 90°	1.4	0° - 180°	6,720.0	100
90° - 180°	0			
<b>Total</b>	<b>6,720.0</b>			

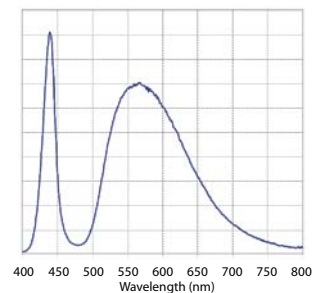
► **Candela Distribution Array**

Vertical Angle	Horizontal Angle		
	0°	45°	90°
0°	4,487.5	4,487.5	4,487.5
5°	3,924.3	3,899.5	3,670.9
15°	4,340.2	4,371.8	4,243.5
25°	4,524.4	4,543.8	4,532.8
35°	6,361.7	6,252.6	6,079.2
45°	25.3	17.0	28.9
55°	8.1	8.0	10.5
65°	3.7	4.2	4.9
75°	2.3	2.5	2.8
85°	1.1	1.5	1.2
90°	0.5	0.9	0.8

► **Luminance Data (Cd/m<sup>2</sup>)**

Vertical Angle	Average 0°	Average 45°	Average 90°
45°	115.0	77.0	131.0
55°	45.0	45.0	59.0
65°	28.0	32.0	37.0
75°	29.0	31.0	35.0
85°	40.0	57.0	45.0

► **Spectral Power Distribution**



DATA IS SUBJECT TO CHANGE. CONSULT LIGHTWILD.COM OR PROJECTS@LIGHTWILD.COM FOR THE MOST CURRENT PRODUCT DATA.

# Photometrics • Lusio Bay • Medium Distribution

► Part No. LW-LUSIO-BAY-LG-MD-CW

**Total Thermally Stabilized Lumens:** 6,341  
**Kelvin:** 4150K +/- 350K (standard)

*Photometry results from actual luminaire tested at 3950K.*

**Fixture Wattage:** 103W (110-277 VAC)  
**Luminaire Efficacy Rating:** 62

**Spacing Criteria**  
 Lateral Plane      0°      90°  
                                  1.3      1.3

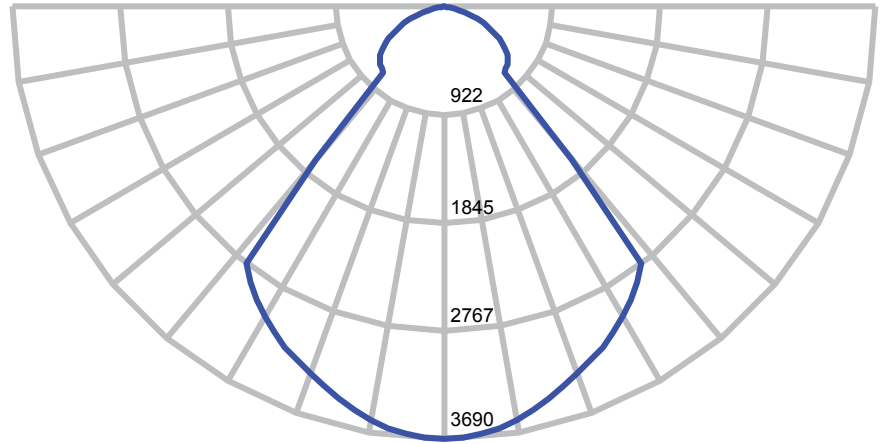
► **Beam Data**



Height	Beam Center Footcandles	Beam Diameter
10 ft	36.9	44.3 ft
12 ft	25.6	53.2 ft
15 ft	16.4	66.4 ft
18 ft	11.4	79.7 ft
20 ft	9.2	89.0 ft
25 ft	5.9	111.0 ft

► **Polar Candela Distribution**

*Quadrilaterally Symmetric*



► **Coefficients of Utilization - Zonal Cavity Method**

*Effective Floor Cavity Reflectance: 0.20*

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	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	111	108	104	101	109	105	102	100	101	99	97	97	96	94	94	92	91	89	
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	78	75	72	70	
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62	
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56	
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51	
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46	
8	69	57	50	45	67	57	49	45	55	49	44	54	48	44	53	48	44	42	
9	65	53	46	41	64	53	46	41	51	45	41	50	45	41	50	44	40	39	
10	61	49	42	38	60	49	42	38	48	42	38	47	41	37	46	41	37	36	

► **Zonal Lumen Summary**

Zone	Lumens	Zone	Lumens	% of Fixture
0° - 10°	348.4	0° - 30°	2,836.6	44.7
10° - 20°	987.1	0° - 40°	4,550.4	71.8
20° - 30°	1,501.2	0° - 60°	5,739.6	90.5
30° - 40°	1,713.8	0° - 90°	6,341.0	100
40° - 50°	640.8	90° - 120°	0	0
50° - 60°	548.4	90° - 130°	0	0
60° - 70°	396.3	90° - 150°	0	0
70° - 80°	179.1	90° - 180°	0	0
80° - 90°	26.0	0° - 180°	6,341.0	100
90° - 180°	0.0			
<b>Total</b>	<b>6,341.0</b>			

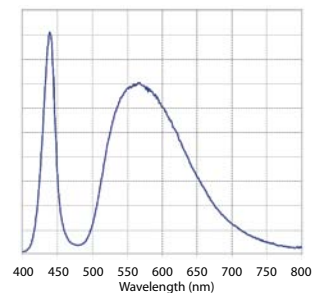
► **Candela Distribution Array**

Vertical Angle	Horizontal Angle		
	0°	45°	90°
	0°	3,689.3	3,689.3
5°	3,670.5	3,676.1	3,680.2
15°	3,506.7	3,530.3	3,525.4
25°	3,262.4	3,293.1	3,298.3
35°	2,680.0	2,977.3	2,995.4
45°	733.7	718.1	724.0
55°	619.0	615.0	620.4
65°	406.7	412.4	414.6
75°	172.9	180.3	179.6
85°	16.6	18.7	15.7
90°	0.9	2.1	0.7

► **Luminaire Data (Cd/m<sup>2</sup>)**

Vertical Angle	Average 0°	Average 45°	Average 90°
45°	3,332.0	3,261.0	3,288.0
55°	3,465.0	3,443.0	3,473.0
65°	3,090.0	3,133.0	3,150.0
75°	2,145.0	2,237.0	2,228.0
85°	613.0	689.0	578.0

► **Spectral Power Distribution**



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