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CEILING / SCONCE / OUTDOOR

### **FEATURES**

- EXCELLENT THERMAL MANAGEMENT IS ACHIEVED THROUGH AN EXTRUDED AND MACHINED ALUMINUM FIXTURE BODY
- 45° CUTOFF AND STEPPED BEZEL MINIMIZES GLARE AND INCREASES VISUAL COMFORT
- NUMEROUS SECONDARY LENS OPTIONS AVAILABLE
- VARYING BEAM SPREAD OPTIONS ARE AVAILABLE: NARROW FLOOD [24 DEGREE] OR WIDE FLOOD [50 DEGREE]
- 3 STEP LED BINNING









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SERIES	HANGING SYSTEM	SIZE	REFLECTOR	FINISH		LIGHT SOURCE		VOLTAGE		CONTROL		OPTIONS

	SAZIEW		_		
SPECIFY CATALO	G CODE				
A		В	С	D	E
SERIES		н	SIZE	REFLECTOR	FINISH
FR2	C1NA	INDOOR SURFACE CEILING MOUNT	08	NF NARROW FLOOD [24 DEGREE]	POWDER COAT FINISHES BKP BLACK BMP BRASS METALLIC
1	S1SC	INDOOR SCONCE		WF WIDE FLOOD [50 DEGREE]	BNP BRONZE BTP BLACK TEXTURED GRP GRAPHITE
FR3	010B	OUTDOOR SCONCE (ETL LISTED FOR WET LOCATION)			GLP GOLDTASTIC  MWP MATTE WHITE  SGP STEEL GRAY  SMP SILVER METALLIC  SWP SKY WHITE
FR1			13 (FR1 ONLY)		WTP WHITE TEXTURED

	F		G		H		
	LIGHT SOURCE		VOLTAGE		CONTROL		OPTIONS
LED OUTPUT LED1	8"  COLOR TEMP (80+CRI) 27K 30K 35K 40K	COLOR TEMP (90+CRI) 927K 930K 935K 940K	UNV 120-277	DMO DM1 DM3	O-10V DIMMING 10% (FR1 WITH 2LED1 ONLY) O-10V DIMMING 1% (NOT AVAILABLE IN 2LED1) LUTRON HI-LUME ECOSYSTEM 1% (LDE1); FR1 ONLY, NOT AVAILABLE IN 2LED1	ULD BIOS HCL SFL SPL	DAMP LABEL ( <b>CINA</b> & <b>SISC</b> ONLY) BIOS SKYBLUE™ OR BIOS SKLYBLUE™ DYNAMIC LIGHT ENGINE* HEX CELL LOUVER SOFTENING LENS SPREAD LENS
	13"					LSL	LINEAR SPREAD LENS
LED1 LED2	27K 30K	927K 930K				MOD	MODIFIED LUMINAIRE (CONTACT LOCAL REP)

2LED1\* FR1 WITH S1SC OR O10B ONLY

LED3

SAMPLE CODE: FR2-S1SC-08-WF-BTP-LED1/35K-UNV-DM1-HCL

35K

40K

935K 940K

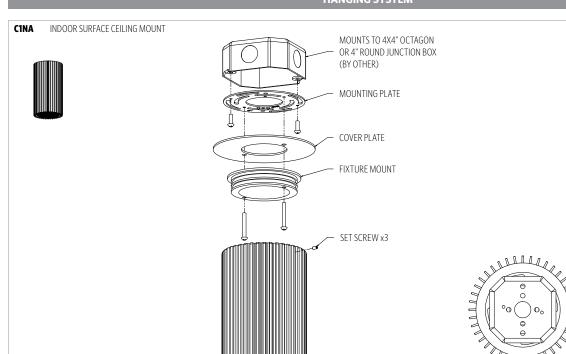
\*Contact factory for **BIOS SkyBlue®** or **BIOS SkyBlue® Dynamic** light engine and control options.

This chart was created for a 35K color temp. Multiply by 0.95 for 27k color temp, 0.97 for 30k color temp, and 1.03 for 40k color temp. Values shown for 80+ CRI. For 90+ CRI lumens use 0.85 multiplier.

<sup>\*2</sup>LED1 is up/down illumination. LED1, LED2, & LED3 are same direction.

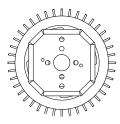
	LUMENS AND		
,	WATTAGE CHART	8"	13"
LED1	LUMENS DELIVERED	1500	1500
LEDI	SYSTEM WATTAGE	16	16
LED2	LUMENS DELIVERED	NA	2135
LEDZ	SYSTEM WATTAGE	NA	26
LED3	LUMENS DELIVERED	NA	2855
LED3	SYSTEM WATTAGE	NA	37
31 FD1+	LUMENS DELIVERED	NA	2750
2LED1*	SYSTEM WATTAGE	NA	32

# HANGING SYSTEM

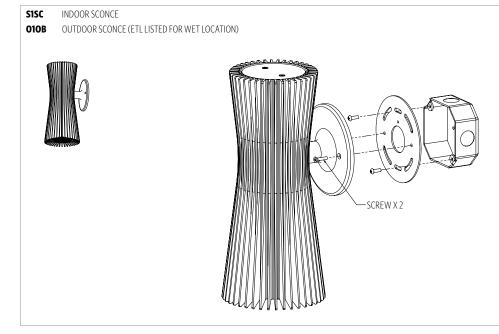


MOUNTING	MOUNTING INFORMATION CHART							
LUMINAIRE HEIGHT	LUMINAIRE WEIGHT	MOUNTING POINTS						
8"	6 LBS	1						
13"	9 LBS	1						

Fixture is provided with 5" dia. cover plate finished to match the fixture body; if no visible cover plate is desired, a 3" mud ring should be pre-installed (supplied by others); 5" dia. cover plate can be discarded if unused.

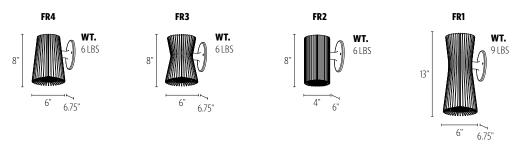


MOUNTS TO 4X4" OCTAGON OR 4" ROUND JUNCTION BOX (BY OTHER)



MOUNTING INFORMATION CHART							
LUMINAIRE HEIGHT	LUMINAIRE WEIGHT	MOUNTING POINTS					
8"	6 LBS	1					
13"	9 LBS	1					

# SIZES



## **METALLIC POWDER COAT FINISHES:**













SMP SILVER

GRP GRAPHITE

SGP STEEL GRAY

GLP GOLD TASTIC

ВМР BRASS

RNP **BRONZE** 

**TEXTURED POWDER COAT FINISHES:** 

## **SOLID POWDER COAT FINISHES:**



SKY WHITE

MWP MATTE WHITE

**BKP** BLACK

BTP BLACK TEXTURED

WTP WHITE TEXTURED

## RAL\*, Pantone\*, or custom finishes are also available.

These colors are for reference only. Please be aware that colors may vary per monitor. Contact your local rep for finish samples or with any questions.

## **LIGHT SOURCE**

	LUMENS AND		
1	WATTAGE CHART	8"	13"
LED1	LUMENS DELIVERED	1500	1500
LEDI	SYSTEM WATTAGE	16	16
LEDO	LUMENS DELIVERED	NA	2135
LED2	SYSTEM WATTAGE	NA	26
LED3	LUMENS DELIVERED	NA	2855
LEDS	SYSTEM WATTAGE	NA	37
2LED1*	LUMENS DELIVERED	NA	2750
ZLEDI	SYSTEM WATTAGE	NA	32

This chart was created for a 35K color temp. Multiply by 0.95 for 27k color temp, 0.97 for 30k color temp, and 1.03 for 40k color temp. Values shown for 80+ CRI. For 90+ CRI lumens use 0.85 multiplier.

\*2LED1 is up/down illumination. LED1, LED2, & LED3 are same direction.

STANDARD COLOR TEMPERATURE OPTIONS	C	RI
2700K	80+	90+
3000K	80+	90+
3500K	80+	90+
4000K	80+	90+

For 80+ CRI - 80 RA, R9 > 0 (10-15 TYP.); For 90+ CRI - 90 RA, R9 > 50

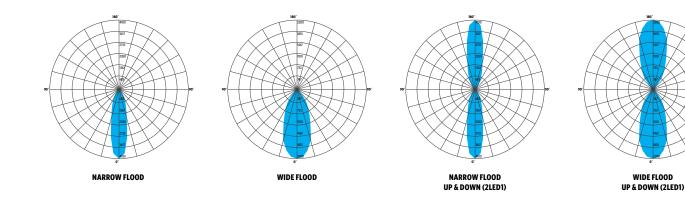
# PHOTOMETRY:

FIXTURE: FR1-P1CB-13-NF-PTD-1LD15/35K-120

COLOR TEMP #: 3500K OUTPUT: 1500 EFFICACY: 93 LM/W TEST REPORT: TEST NO. 18332.0

For all available IES files, please visit our website at ocl.com.

	NARROW FLOOD		WIDE	FLOOD		W FLOOD N (2LED1)	WIDE FLOOD UP/DOWN (2LED1)		
ZONE	LUMENS	% OF LUMINAIRE	LUMENS	% OF LUMINAIRE	LUMENS	% OF LUMINAIRE	LUMENS	% OF LUMINAIRE	
0-30	1187	81%	1112	74%	1187	40%	1112	37%	
0-60	1468	99.7%	1499	100%	1468	49%	1499	50%	
0-90	1472	100%	1499	100%	1472	50%	1499	50%	
0-120	-	-	-	-	2374	80%	2224	74%	
0-150	-	-	-	-	2936	99%	2998	100%	
0-180	-	-	-	-	2944	100%	2998	100%	



## CONTROL

### O-10V DIMMING DOWN TO 10% ((FR1 WITH **DMO** 2LED1 (NIY)

- 0-10V DIMMING
- 10% MINIMUM DIM LEVEL
- ELECTRONIC DRIVER
- POWER FACTOR > 0.9
- THD < 20%
- MIN AMBIENT OPERATING TEMPERATURE -31°F
- FIELD REPLACEABLE

#### DM1 **0-10V DIMMING DOWN TO 1%**

- 0-10V DIMMING
- 1% MINIMUM DIMMING LEVEL
- ELECTRONIC DRIVER
- POWER FACTOR > 0.9
- THD <20%</li>
- MIN AMBIENT OPERATING TEMPERATURE = -31°F
- FIELD REPLACEABLE

#### DM3 **LUTRON HI-LUME ECOSYSTEM 1% (LDE1;** FR1 ONLY)

- LUTRON DIGITAL ECOSYSTEM DIMMING
- 1% MINIMUM DIMMING LEVEL
- SOFT-ON / FADE-TO-BLACK
- ELECTRONIC DRIVER
- POWER FACTOR > 0.9 @ 120V
- THD < 23% @ 120V
- MIN AMBIENT OPERATING TEMPERATURE = 32°F
- FIELD REPLACEABLE

### **OPTIONS**

#### DAMP LABEL LUMINAIRE ULD

 MAY BE USED IN AN OUTDOOR AREA THAT IS PROTECTED FROM DIRECT CONTACT WITH WIND, RAIN, SNOW OR **FXCFSSIVE MOISTURE** 

### **BIOS**

- BIOS SKYBLUE™ DYNAMIC LIGHT ENGINE IS DIMMARI F AND FEATURES A SIMPLE APPROACH TO CIRCADIAN LIGHTING CONTROLS. WHEN PAIRED WITH THE BIOS BIO-DIMMING MODULE, IT OPERATES USING ANY SINGLE CHANNEL CONSTANT CURRENT (CC) LED DRIVER AND CAN BE USED WITH ANY STANDARD DIMMING INTERFACE/PROTOCOL (0-10V, ELV, DMX, WIRELESS) AND COULD WORK WITH EXISTING TWO-CHANNEL CONTROL SYSTEMS AS WELL.
- VISIT OCL.COM/BIOS FOR MORE INFORMATION

#### HCL **HEX CELL LOUVER**

PROVIDES A 45° VISUAL CUT-OFF TO HELP REDUCE GLARE

#### SFL SOFTENING LENS

TEXTURED LENS THAT SOFTENS AND SPREADS BEAM

#### SPL SPREAD LENS

DIRECTS THE LAMP BEAM TO CREATE A DIFFUSED SPREAD IN AN EVEN PATTERN IN ALL DIRECTIONS

#### LSL LINEAR SPREAD LENS

PRODUCES ASYMMETRICAL LIGHT DISTRIBUTION, CREATING AN OVAL OF LIGHT

#### MOD MODIFIED LUMINAIRE

LUMINAIRE IS MODIFIED FROM STANDARD OPTIONS: CONTACT LOCAL REP FOR MORE INFORMATION

## **SPECIFICATIONS**

### CONSTRUCTION

- FIXTURE IS EXTRUDED AND MACHINED ALUMINUM
- HARDWARE IS ZINC PLATED OR STAINLESS STEEL

### LENSING

- STANDARD LENS INCLUDED FOR 2LED1 ONLY
- FOR S1SA IN UPWARD FACING ORIENTATION, NOTE IN MODIFICATIONS AND A LENS WILL BE PROVIDED

## **ELECTRICAL**

- DIMMING ELECTRONIC DRIVER(S), COMES STANDARD WITH 0-10V DOWN TO 10%
- 0-10V DOWN TO 1% AND LUTRON ECOSYSTEM (LDE1) 1% ALSO AVAILABLE AS MODIFICATION (REQUIRES REMOTE DRIVERS; FR1 ONLY, NOT AVAILABLE IN 2LED1)
- BRIDGELUX COB
- LUMINAIRE CONNECTS TO BUILDING SUPPLY (120V-277V 50/60HZ) UNLESS DRIVERS ARE REMOTE

### LISTING

- S1SC & C1NA ETL LISTED TO UL 1598 FOR DRY LOCATIONS; **ULD DAMP LOCATION LISTED IS OPTION**
- **010B** ETL LISTED TO UL 1598 FOR WET LOCATION

### WARRANTY

5 YEAR; ALL ELECTRICAL COMPONENTS RETAIN THE MANUFACTURER'S WARRANTY

## SUSTAINABILITY

- **BIOS** LIGHTING CONTRIBUTES TOWARD THE CIRCADIAN LIGHTING DESIGN FEATURE 54 UNDER THE WELL BUILDING STANDARD™ V1 AND FEATURE LO3 UNDER THE WELL BUILDING STANDARD V2
- THIS PRODUCT MEETS THE MATERIAL RESTRICTIONS OF ARTICLE 4 OF THE ROHS DIRECTIVE (2011/65/EU), INCLUDING COMMISSION DELEGATED DIRECTIVE 2015/863

## **COMMON MODIFICATIONS**

### WE'RE BUILT FOR OUT-OF-THE-BOX THINKERS.

Nearly 50% of OCL fixtures we manufacture have some type of modification. Here is a list of common modifications we frequently produce. Please contact the factory for modifications specific to your fixture or project.

Need some help? Simply send your questions to us at OCL-Quotes@ocl.com

- BIOS, TUNABLE WHITE, WARM-DIM, & RGBW LIGHT SOURCES
- SPECIFIC LUMEN OUTPUT
- MODIFIED CLUSTERS OR CONFIGURATIONS / MULTI-DROP CANOPIES
- VARIOUS SHAPES, ARCS, AND CURVES FOR LINEAR PROFILES AND RINGS
- CEILING OR SURFACE MOUNTING
- LARGE SCALE MODIFICATIONS
- RAL, PANTONE, BRAND-SPECIFIC, RETIRED OCL COLOR, OR CUSTOM FINISHES









- EMERGENCY BATTERY BACKUP OR INVERTER OPTIONS
- REMOTE DRIVERS / EXTENDED DISTANCE REMOTE DRIVERS
- DIMMING TO 0.1% (DIM TO DARK)
- NON-STANDARD SIZES OR LENGTHS
- NON-STANDARD CANOPY, BODY AND/OR CORD COLORS
- SEISMIC AND/OR ANTI-SWAY SYSTEMS
- RIGID STEMS
- MODIFIED OVERALL HEIGHTS (LONGER OR SHORTER OAH)
- UPLIGHT ADDITIONS
- LASER ETCHING, ENGRAVING, AND CUTOUTS

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