DAY-O-LITE

MicroLux Series | MCRL-D

Date	Notes
Project	
Type Qty	

Features

Micro extruded aluminum direct/indirect housing.

Power over 1/6" diameter suspension cable standard.

LED optimized optics for smooth, efficient illumination.

Individual fixtures, continuous rows or custom patterns.

Programmable driver for custom lumen packages.

0-10V dimming to 1% standard. Dim-to-off available.

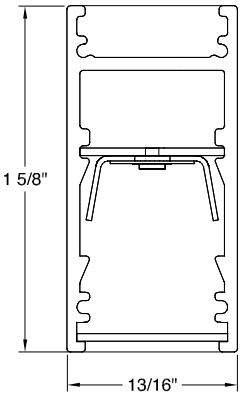
DMX, Lutron and DALI protocols also available.

Sensor Ready for wireless Smart Lighting Solutions.

80/90CRI, Tunable White, RGBW (consult factory).

Plenum rated remote driver enclosure.

Declare Red List Approved.



Satin Ice Lens

Ordering Guide

Declare. BAA

MODEL	OPTICS	LED[1]	LUMENS[2]	LENGTH	MOUNTING[3]	FINISH	OPTIONS
MCRL-D	**SI**				**PSC**		
MCRL-D Direct	SI = Satin Ice Acrylic Lens	**STATIC WHITE** 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K **TUNABLE WHITE** (2700K-6500K) 2DIM10 = for 0-10V 2DMX = for DMX 2ESN = for Philips 2CAS = for Casambi 2LUT = for Lutron **DIM-TO-WARM** (6500K-1800K) DTW = Dim-to-Warm **RGB + WHITE** RGB = RGB RGBW = RGBW	LO = 430/ft (5W/ft, 86LPW) SO = 575/ft (7W/ft, 85LPW) HO = 690/ft (9W/ft, 83LPW) **CUSTOM** Specify lumen < HO.	2 = 2 ft (22 1/4") 3 = 3 ft (33 3/8") 4 = 4 ft (44 1/2") 5 = 5 ft (55 5/8") 6 = 6 ft (66 3/4") 7 = 7 ft (77 7/8") 8 = 8 ft (89") For other enter row length (e48 = 48 ft)	PSC = Powered Susspeion Cable S = Surface	W = White CC = Custom Color AMW = Anti-Microbial White	**DIMMING DRIVERS** *All options remote mount only* DIM10 = 0-10V (1%) - **Standard** DTO = 0-10V (Dim-to-Off) DIMST = 0-10V Step Dimming 347 = 0-10V (347V) DIMSR = DALI Sensor Ready (5.0%) DALI = DALI (5.0%) DMX = DMX **LUTRON™ DIMMING DRIVERS** LDE1 = Hi-Lume 1% EcoSystem LD2 = Digital 1% (DALI-2) L3DA3W = Hi-Lume 1% 3-Wire **SENSORS & CONTROLS**[4] *All options remote mount only* **EMERGENCY BATTERY**[5] EMC = Emergency Circuit GTD = Generator Transfer Device EPC4 = 4W Battery Pack EPC6 = 6.5W Battery Pack EPC10 = 10W Battery Pack EPC12 = 12W Battery Pack **WIRING & OTHER** FWH = Flexible Wiring Harness

[1]All LED, Tunable White, DTW, and RGB/W options and Ordering Codes page 2.

[2]Lumens at 80CRI, 3500K, SI lens. Photometry page 3.

[3]See page 4 for mounting option details.

[4]All Sensor & Control options page 2. Most driver, Sensor & Control options, and GTD for remote mount only. Constult factory.

[5]EPC6 standard unless otherwise specified. EPC not for DMX drivers.

BAA letter of compliance available at www.dayolite.com.

LED, BIOS, Sensor & Control Ordering Codes

LED

Static White

30 = 3000K 80 CRI
35 = 3500K 80 CRI
40 = 4000K 80 CRI
50 = 5000K 80 CRI

927 = 2700K 90 CRI
930 = 3000K 90 CRI
935 = 3500K 90 CRI
940 = 4000K 90 CRI

Tunable White[1]
(2700K-6500K)

2DIM10 = 0-10V 80 CRI
2DMX = DMX 80 CRI
2CAS = Casambi Wireless 80 CRI
2ESN = Philips EasySense 80 CRI
2LUT = Lutron (LD2) 80 CRI

92DIM10 = 0-10V 90 CRI
92DMX = DMX 90 CRI
92CAS = Casambi Wireless 90 CRI
92ESN = Philips EasySense 90 CRI
92LUT = Lutron (LD2) 90 CRI

Dim-to-Warm[2]
(6500K-1800K)

DTW = 80 CRI
9DTW = 90 CRI

RGB/W[3]
(consult factory)

RGB = RGB only
RGB27 = RGB w/2700K
RGB30 = RGB w/3000K
RGB35 = RGB W/3500K
RGB40 = RGB w/4000K
RGB50 = RGB w/5000K

Single Color[4]

RED = Red
BLU = Blue
GRN = Green
AMB = Amber

Sensors & Controls

Due to MCRL's small form the following sensor and control options are for remote ceiling mount only. Consult factory for details.

Sensors

AVO = Avi-On Occ/Day
AVM = Avi-On Occ (Microwave)
BNV = BubblyNet Occ/Day
ENC = Encelium Occ/Day
ENL = EnLighted Occ/Day/Temp
LEG = Legrand Occ/Day
ANW = Lutron Athena Occ/Day
VIVE = Lutron Vive Occ/Day
NLT = Acuity nLight Occ/Day
NXC = Current NX Occ/Day
ESN = Philips EasySense Occ/Day
WVL = Cooper WaveLinx Occ/Day

Wireless Control
CAS = Casambi

Sensors and control options to be commissioned wirelessly in the field by qualified controls personnel with applicable apps (by others).

Other Options

Othe sensor and wireless control options are available. Contact factory for details.

[1]Tunable white may be controlled by a number of dimming protocols as shown.

[2]Dim-to-Warm mimics incandescent dimming by warming the CCT from any range between 6500K and 1800K CCT as light levels are dimmed.

[3]All RGB, RGBW and RGBWW options for DMX control (by others). 80 CRI standard.

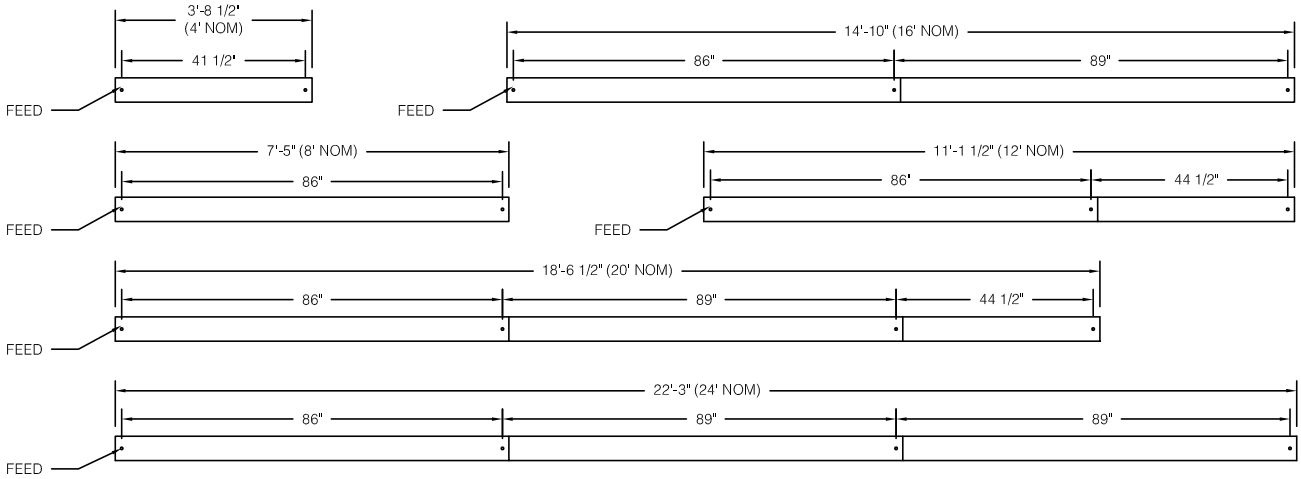
[4]Single colors are constant voltage LEDs. Dimming requires ELV controller (by others).

Individual Fixtures & Continuous Rows

NOMINAL LENGTH	ACTUAL LENGTH	SUSP. 1 O.C.	SUSP. 2 O.C.	SUSP. 3 O.C.	SUSP. 4 O.C.
4'	3' 8-1/2"	41 1/2"			
8'	7' 5"	86"			
12'	11' 1-1/2"	86"	44 1/2"		
16'	14' 10"	86"	89"		
20'	18' 6-1/2"	86"	89"	44 1/2"	
24'	22' 3"	86"	89"	89"	89"

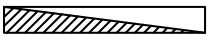
Individual fixtures and rows are continuously illuminated and joined with included aligner brackets and hardware. Power feed locations and mounting locations are shown below.

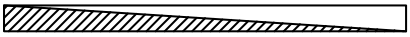
Continuous rows longer than 8' and patterns, including EPC/EMC and sensor locations must be approved prior to manufacturing.



Emergency & Sensor Locations

EPC will control entire length of fixture. Individual fixtures of differing lengths will deliver the same lumens under EPC power (a 4' fixture will deliver the same total lumens over half the length of an 8' fixture). EMC controlled fixtures will deliver lumens per foot as originally specified, unless dimmed at time of power loss. Consult factory for EMC dimming override device.

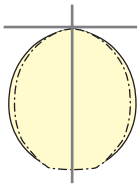
4' Individual 

8' Individual 

For individual fixtures to 8' **EPC/EMC** will power entire fixture.

NOTE All sensors and Emergency Battery Packs remote mount only.

Photometry



MCRL-14-D-SI-35-**LO**-4

3500K CCT
WATTS: 20
LUMENS: 1725
LPW: 86

MCRL-14-D-SI-35-**SO**-4

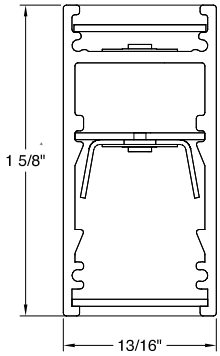
3500K CCT
WATTS: 27
LUMENS: 2300
LPW: 85

MCRL-14-D-SI-40-**HO**-4

3500K CCT
WATTS: 33
LUMENS: 2750
LPW: 83

3500K @ 80CRI, 4', 43% Direct, 57% Indirect Distribution, SI lens.
Use the following multipliers for other CCTs: 2700K x 0.96, 3000K x 0.98, 4000K x 1.02, 5000K x 1.03. IES files @ www.dayolite.com

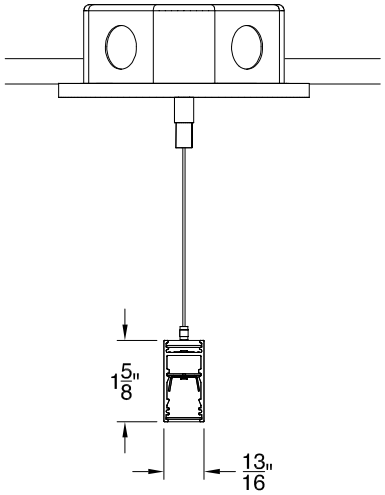
Optics



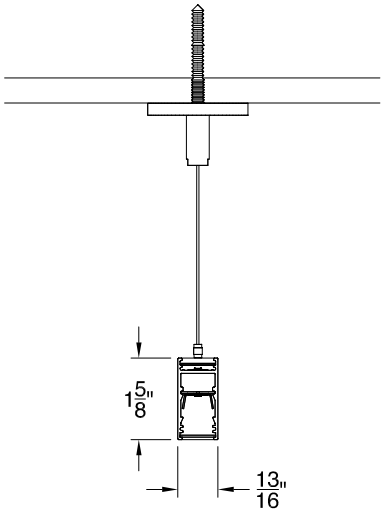
SI
Satin Ice Lens

Mounting

Standard suspension options include adjustable self-locking aircraft cables (AC) and rigid pendant stems (PD). AC assembly is 48" x 1/16" with a 5" feed canopy and 2" suspension canopies. 60" 18 gauge power and 22 gauge dimming control SJT feed. PD assemblies are 5/8" dia. (or 3/8" IP) hollow stem for power feed by others, 24" is standard. Consult factory for longer suspension lengths and other mounting options.



AC
Feed Canopy 5"



AC
Non-Feed Canopy 2"

AC-PF = Replacement Power Feed w/cable Kit w/5" canopy.
AC-NF = Replacement Non/Feed Kit w/2" canopy.
Consult factory for lengths and either 5 or 6 wire power feeds.

Specifications

CONSTRUCTION: Extruded aluminum housing. 20 gauge cold rolled steel internal components.

REFLECTOR: Die-formed steel finished in highly reflective baked white enamel with pre-finished reflective LED tray.

OPTICS: LED optimized Satin Ice acrylic lens is standard.

LED: Static white LED modules in 30/35/40 & 50K CCT, 80/90CRI. Lumen maintenance minimum L_{70}= 50,000 hours. 3 SDCM color consistency. RGB, Tunable White and Dim-to-Warm options available; field replaceable.

DRIVER: Class 2 AOC 0-10V driver to 1%, Dim-to-Off available. 120/277V input, PF > 90%, THD < 20 @ 120V. DMX, DALI & Lutron protocols available. All drivers prewired for connection to control system (by others); field replaceable.

MOUNTING: Standard options include adjustable self-locking aircraft cables (AC), and rigid pendant stems (PD). AC assembly is 48" x 1/16" with a 5" feed canopy and 2" suspension canopies. 18 gauge power and 22 gauge dimming control SJT feed. May also be surface ceiling mounted.

FINISH: Housing and components finished in baked white enamel. Canopies and pendant stems are white enamel unless otherwise specified. 5" Feed canopy w/2" Suspension canopies.

CERTIFICATION: cETLus listed conforming to UL STD. 1598 and certified to CSA STD C22.2 NO. 250.0. Suitable for dry & damp locations. Union Made in the United States of America. I.B.E.W., BAA compliant, Declare Red List Approved.

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