

APPLICATION

For the use of direct ambient and/or accent lighting. To install as recessed in ceilings. Belongs to C70 series family. Perfect for applications desiring a dynamic color changing effect. Recommended for retail, modern residential, hospitality and entertainment installations. Miniature downlight recommended for low to medium height ceilings. RGBW design allows fine-tuned pastel colors and saturated hues without sacrificing illumination brightness.

ELECTRICAL

Power Input:

Direct 120V-240V AC input comes standard. Available with 24DC or 120V-277V options. 0.15A Max. See ordering guide below.

Power Input Connection:

Direct Line Voltage hard-wired inside electrical junction box. Standard knock-out conduit entries with multiple sizes for through wiring.

Power Consumption:

0.1-9W.
(Stand-by wattage not included).

PHYSICAL

Environment:

IC rated for direct contact with loose insulation.

Construction:

Made of heavy gauge cold-rolled steel to protect light emitting diodes, other electronics and preserve optical alignment. Integral junction box provides easy access for electrical maintenance, via remodeling clips. Die-Cast construction trim ring flange covers ceiling opening. Steel Blades/Springs installed on trim for a tight gap-free installation onto housings. Recommended for ceiling thickness up to 0.75".

Housing Finish:

Painted black to eliminate stray light leaks.

L70 Life:

35,000 Hours for ambient temperatures under 85°F.

Temperature Rating: 0°F - 120°F Ambient.

COLOR DETAILS

DirectDMX Color Control:

Color controlled with USITT DMX512A Standard Protocol to work with Coloronix or 3rd Party DMX Systems such as the Color Kinetics® iPlayer 3. On board Dip Switches inside the Data Enabler allow selecting of DMX addresses between 1-512 in a given DMX universe. DMX Data fed to housing via standard RJ45 connectors. Data Input/Output ports allow daisy-chaining of DMX Signal.

LED Die Colors:

Red (620-635nm) Blue (450-465nm)
Green (520-535nm) Neutral White (4000k)

Color Mixing:

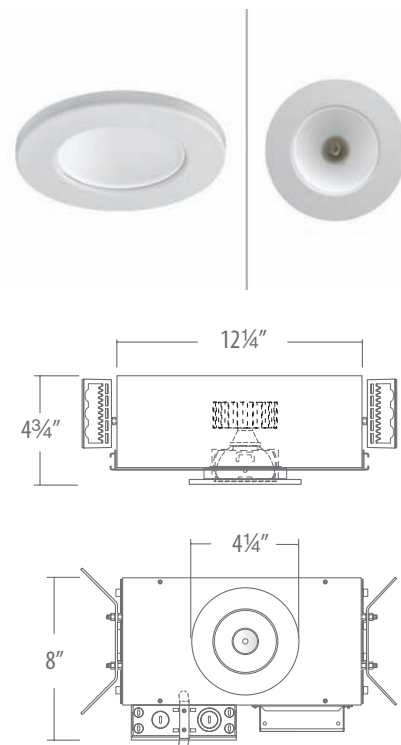
Using InternaMix™ proprietary technology, colors are efficiently blended together through an internal mixing chamber. The one-color output reduces unsightly views of isolated Red, Green and Blue Diodes for a seamless rainbow-free appearance.

Dimming:

Smooth and flicker-free dimming of all colors down to 1% using Patented Color Mixing and Dimming technologies developed at Philips Color Kinetics®

Static Color Available:

All Std. Colors, Consult Factory.



Ceiling Opening : 3 3/8"

COMPATIBILITY

Accessories:

SWR2RJ45-BK-72: 72" RJ45 Extension
PCL002: RJ45 DMX Terminator

PCL003: DMX RJ45/Terminal Block Coupler

PCL004: RJ45 Coupler

HB24: T-Bar/Wood Joist Hanger Bars

SAFETY

ETL Listed Complies to UL1598 and ANSI/UL 8750.
Damp Location Rated.
IP62 Protection.

ORDERING

▶ example: **SH3LDC70RGBW024/SR3LED21W**

HOUSING	POWER INPUT	FINISH
SH3LDC70RGBW	Blank : 120V-240V AC V024 : 12V DC V277 : 120V-277V AC	/ SR3LED21B : Black / SR3LED21W : White / SR3LED21N : Brushed Nickel

PHOTOMETRIC DATA

TESTED IN ACCORDANCE WITH IES PROCEDURES

CATALOG NO. _____

TYPE _____

PROJECT _____

SR3LED21

LED 3" DOWNLIGHT LUMINAIRE
WITH DIFFUSE REFLECTOR AND WHITE TRIM

TEST INFORMATION

REPORT LAB/NO. : LIGHTING SCIENCES/28784

Number of Array : (1) One LED array

Luminaire Output : 245 LMS

Color Temperature : 4000K

Driver Information : (1) Coloronix SDE Driver (700 MA)
operating at 120V AC and 9.5 Watts.

ZONAL LUMEN AND PERCENTAGES

ZONE	LUMENS	%LUMINAIRE
0 - 30	193	78.91
0 - 40	233	95.12
0 - 60	245	99.93
0 - 90	245	100.00
40 - 90	12	4.88
60 - 90	0	0.07
90 - 180	0	0.00
0 - 180	245	100.00

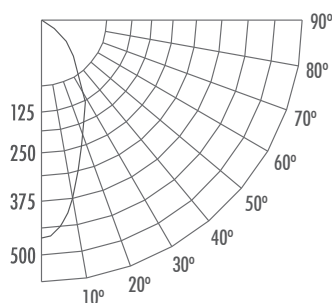
LUMINANCE SUMMARY CD./SQ.M.

ANGLE IN DEGREES	MEAN CD/SQ M
45	5707
55	407
65	100
75	19
85	0

INTENSITY (CANDLEPOWER) DATA

ANGLE	INTENSITY	ANGLE	INTENSITY
0.0	463.0	50.0	3.0
5.0	440.0	55.0	1.0
10.0	379.0	60.0	0.0
15.0	300.0	65.0	0.0
20.0	220.0	70.0	0.0
25.0	154.0	75.0	0.0
30.0	104.0	80.0	0.0
35.0	64.0	85.0	0.0
40.0	31.0	90.0	0.0
45.0	13.0		

CANDLEPOWER DISTRIBUTION



MULTIPLE UNITS 50'x 50' ROOM | 8' CEILING HEIGHT

SPACING	AVG FC	AVG/MIN
6'x 6'	8	2 to 1
8'x 8'	5	4 to 1