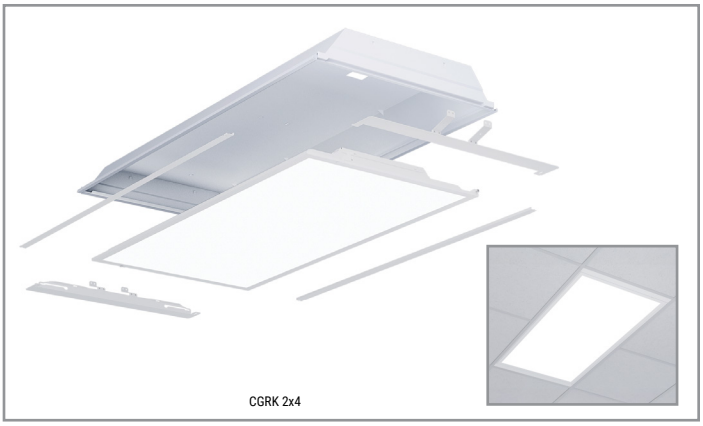
Project		**Catalog #**		**Type**	
Prepared by		**Notes**		**Date**	



Metalux

CGRK Selectable Lumens and CCT

1x4, 2x2, 2x4 Backlit Panel Retrofit Kit

Typical Applications

Offices • Education • Healthcare • Retail

Interactive Menu

- Order Information page 2
- Product Specifications page 4
- Product Warranty

Product Certification

IP5X

Efficiency Standards T24 Can be used to comply with California Title 24 Non-Residential

Product Features

CERTIFIED · RoHS COMPLIANT · DLC LISTED PREMIUM · DLC LISTED · seleCCTable colors · selectable lumens · WaveLinx LITE

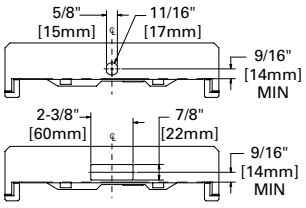
Top Product Features

- Three color temperature and three lumen package choices up to 145 LPW for use in a variety of applications
- Selectable switches are located on top of the driver box with access below the ceiling
- Micro-optics provide uniform illumination across the entire lens
- Extruded aluminum frame tightly seals to the housing for optimal performance and aesthetics
- Two box solution that expedites installation and reduces cost
- Ships in multi-packs of 4 to miminize packaging waste
- Optional field installable selectable switch locks enable watts per sq. foot compliance

CGRK Dimensions

additional product diagrams

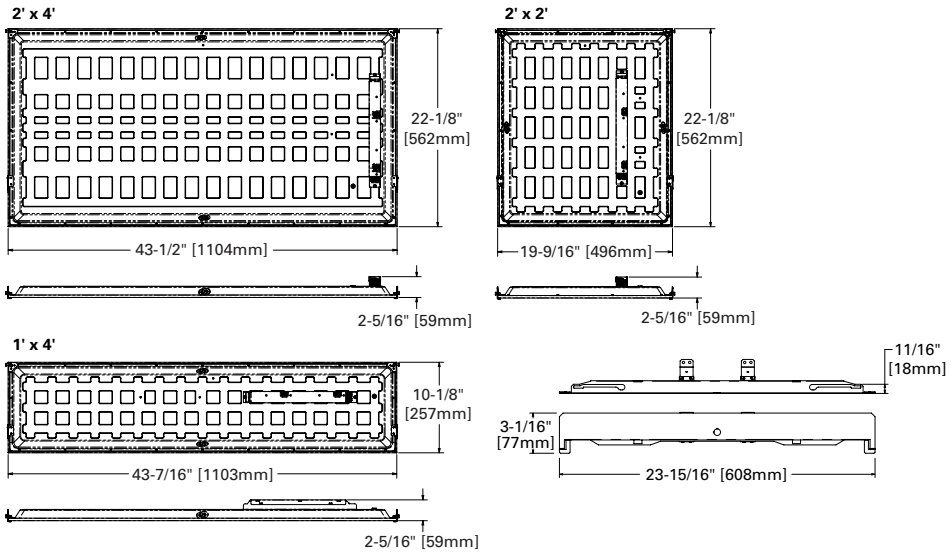
Box 1: End Plates



Note: Two KO's for WLS Sensor and Emergency Battery Pack Test Button

Form Factor	Units Per Bulk Pack	Box 1: End Plates	Box 2: Panel	Box 2: Side Rails
2x4	4	8	4	8
2x2	4	8	4	8
1x4	4	8	4	8

Box 2: Panel & Side Rails



CGRK Two Box Solution

Box 1 of 2 = end mounting rails
Box 1 of 2 = retrofit luminaire and side rails

Note: The 24CGRK end mount rails contain 2 feet long rails that fit both the 2x4 and 2x2 retrofit kits.

How the CGRK Is Shipped		
Full Catalog Logic	**Box 1 of 2** (1)	**Box 2 of 2**
24CGRK-L3C3-UNV-MP4	24CGRK-MP4 BOX1OF2 (1)	24CGRK-MP4 BOX2OF2
24CGRK-L3C3-UNV-WLS-MP4	24CGRK-WLS-MP4 BOX1OF2 (1)	24CGRK-MP4 BOX2OF2
22CGRK-L3C3-UNV-MP4	24CGRK-MP4 BOX1OF2 (1)	22CGRK-MP4 BOX2OF2
22CGRK-L3C3-UNV-WLS-MP4	24CGRK-WLS-MP4 BOX1OF2 (1)	22CGRK-MP4 BOX2OF2
14CGRK-L3C3-UNV-MP4	14CGRK-MP4 BOX1OF2 (1)	14CGRK-MP4 BOX2OF2
14CGRK-L3C3-UNV-WLS-MP4	14CGRK-WLS-MP4 BOX1OF2 (1)	14CGRK-MP4 BOX2OF2

Note: (1) The 24CGRK end mount rails contain 2 feet long rails that fit both the 2x4 and 2x2 retrofit kits.

CGRK Accessories (ordered separately)

Catalog	Description	Notes
SCTCOV-25PK	25PK Universal Switch Cover	Field installed
EBPLEDL7W	7W EM Pack	Field installed, Remote Indicator/Test Switch
EBPLEDL14W	14W EM Pack	Field installed, Remote Indicator/Test Switch

CGRK Ordering Information/Performance

Default CCT/Lumen Setting: 4000K/Medium

Size	Catalog	Pack / Integrated Controls	Lumen Setting	CCT	CRI (Min)	Delivered Nominal Lumens	Watts	Efficacy (lm/W)	Glare Performance	
									UGR (2)	Max Luminance (2)
1x4	14CGRK-L3C3-UNV-MP4	Standard=Multi-Pack (4) / None	Low	3500K	80	2055	15	140	20.2	2380
				4000K	80	2050	14	141	20.2	2375
				5000K	80	2094	15	143	20.3	2425
			Medium	3500K	80	3112	22	142	21.7	3605
				4000K	80	3132	22	145	21.7	3628
				5000K	80	3155	22	145	21.7	3655
	14CGRK-L3C3-UNV-WLS-MP4	WLS =Multi-Pack (4) / WaveLinx LITE	High	3500K	80	4052	29	141	22.6	4694
				4000K	80	4094	28	144	22.6	4743
				5000K	80	4097	29	143	22.6	4746
2x2	22CGRK-L3C3-UNV-MP4	Standard=Multi-Pack (4) / None	Low	3500K	80	2062	15	140	19.7	2157
				4000K	80	2052	15	141	19.6	2146
				5000K	80	2089	15	142	19.7	2185
			Medium	3500K	80	3097	22	141	21.1	3239
				4000K	80	3106	22	144	21.1	3248
				5000K	80	3136	22	144	21.1	3279
	22CGRK-L3C3-UNV-WLS-MP4	WLS =Multi-Pack (4) / WaveLinx LITE	High	3500K	80	4028	29	140	22.0	4212
				4000K	80	4068	28	143	22.0	4255
				5000K	80	4085	29	142	22.0	4273
2x4	24CGRK-L3C3-UNV-MP4	Standard=Multi-Pack (4) / None	Low	3500K	80	2827	20	143	18.6	1465
				4000K	80	2820	20	145	18.6	1461
				5000K	80	2859	20	145	18.7	1482
			Medium	3500K	80	3855	27	143	19.7	1998
				4000K	80	3866	27	145	19.7	2003
				5000K	80	3884	27	145	19.7	2013
	24CGRK-L3C3-UNV-WLS-MP4	WLS =Multi-Pack (4) / WaveLinx LITE	High	3500K	80	4946	35	140	20.6	2563
				4000K	80	5007	35	144	20.6	2594
				5000K	80	5009	35	142	20.6	2596

Notes:
(2) UGR values per CIE 190:2010 with 4H, 8H, Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane

Luminance measured at 45-90 degrees from nadir.

UGR and Luminance values that meet WELL v2 L04 requirements for Managing Glare are shown with green highlighted cell (UGR < 16, Luminance < 6,000).

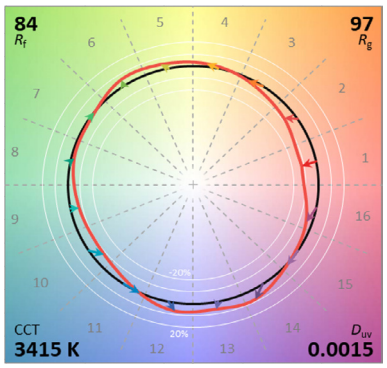
UGR and Luminance values that meet LEED v4.1 requirements for Glare Control are shown with green text (UGR < 19, Luminance < 7,000).

Key

	Meets WELL v2
TEXT	Meets LEED v4.1

TM-30 DATA FOR 80 CRI, SELECTABLE CCT (3500K SETTING)

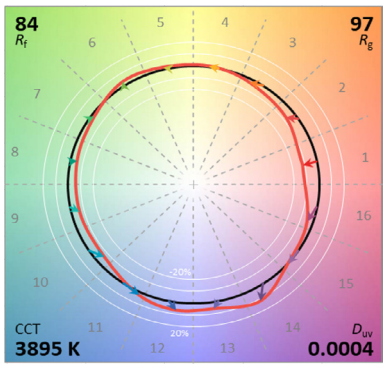
ANSI/IES TM-30-18 Color Rendition Report



Reference Illuminant — Test Source

TM-30 DATA FOR 80 CRI, SELECTABLE CCT (4000K SETTING)

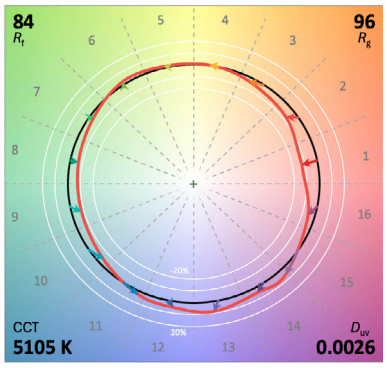
ANSI/IES TM-30-18 Color Rendition Report



Reference Illuminant — Test Source

TM-30 DATA FOR 80 CRI, SELECTABLE CCT (5000K SETTING)

ANSI/IES TM-30-18 Color Rendition Report



Reference Illuminant — Test Source

TM-30 data is extrapolated from LM-79 integrating sphere tests. Contact factory for specific TM-30 data.

DCRI	CCT	CRI	R_f	R_g	R9
90	3500K	84	84	97	11
	4000K	84	84	97	16
	5000K	84	84	96	13

CGRK Product Specifications

Construction
- Die-formed steel back plate is post-painted to ensure durability
- IP5x rating for ingress protection
- Designed for installation into conventional 1x4, 2x4, and 2x2 troffer housings
- Mounting rails and luminaires shipped in two boxes to expedite installation and reduce project cost
- Shipped in mult-packs of 4 to miniminize packaging waste saving project time

Electrical
- Aluminum frame weld and ground, for a seamless appearance
- CGRK projected lumen maintenance based on TM21 testing standards is >L89@60,000 hours
- LEDs are 80 CRI (minimum) and switch to 3500K, 4000K, or 5000K.
- Emergency battery pack options available in 14W and 7W
- Knock outs provided in mounting rails for emergency battery backup test indicator light
- Default CCT/Lumen Setting:4000K/Medium

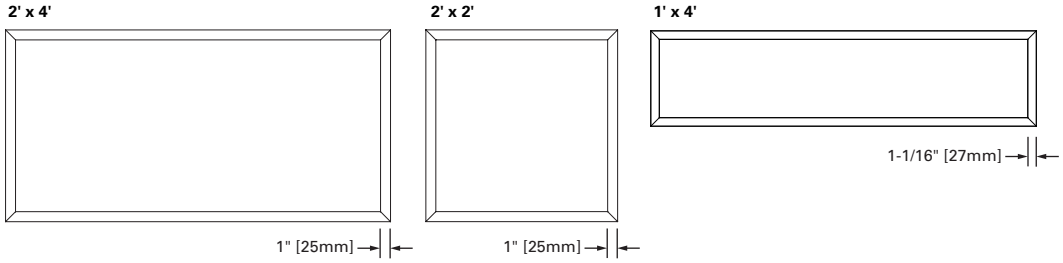
Controls
- Fixture comes with field selectable lumens and CCT dipswitches. Standard UNV 120-277 driver with 0-10V dimming with dim-to-off
- Optional integrated DLC/NLC 5.0 listed sensor and field installable emergency battery back up
- Optional field installable dipswitch locks enable watts per sqft. compliance and prevent end users from making modifications in the future

Optical Shielding
- Micro-optics enable uniform distribution of LEDs for uniform lens illumination
- Smooth, frosted lens delivers uniform illumination and surface texture to minimize scratch and impact damage

Certifications
- cULus listed for 25C ambient environments, indoor applications
- UL damp location listed
- IESNA LM-79 and LM-80 standards compliant
- DesignLights Consortium® Qualified and classified for DLC Standard and DLC Premium, refer to www.designlights.org for details
- Qualifies as State of California Title 24 high efficiency luminaire (non-residential)
- FCC part 15 class A compliant
- Meets IP5X rating from the room side with no modification needed

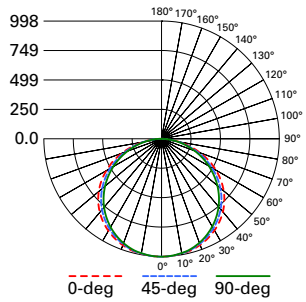
Warranty
- Five year standard warranty
- Optional 10-year warranty, contact factory for more details

CGRK Frame Dimensions



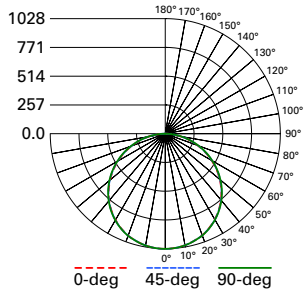
Photometric Data

View IES files



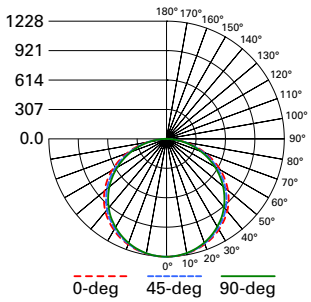
14CGRK-L3C3-UNV-MP4-MID-4000K

Electronic Driver
LED 4000K
Spacing criterion: (II) 1.34 x mounting height, (⊥) 1.28 x mounting height
Lumens: 3132
Input Watts: 21.6W
Efficacy: 145 LPW
Test Report: 14CGRK-L3C3-UNV-MP4-MID-4000K.IES



22CGRK-L3C3-UNV-MP4-MID-4000K

Electronic Driver
LED 4000K
Spacing criterion: (II) 1.28 x mounting height, (⊥) 1.28 x mounting height
Lumens: 3106
Input Watts: 21.6W
Efficacy: 143.8 LPW
Test Report: 22CGRK-L3C3-UNV-MP4-MID-4000K.IES



24CGRK-L3C3-UNV-MP4-MID-4000K

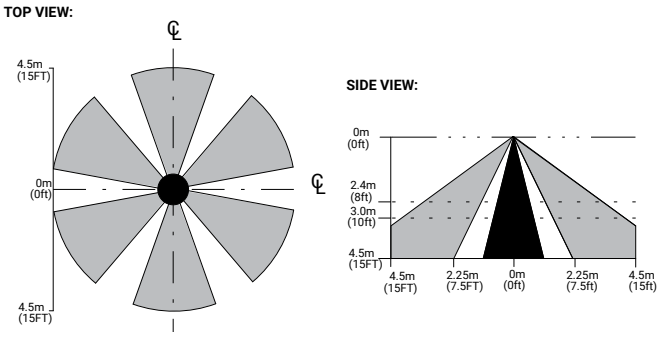
Electronic Driver
LED 4000K
Spacing criterion: (II) 1.33 x mounting height, (⊥) 1.28 x mounting height
Lumens: 3866
Input Watts: 26.6W
Efficacy: 145.3 LPW
Test Report: 24CGRK-L3C3-UNV-MP4-MID-4000K.IES

Control Solutions

- WaveLinx LITE wireless

WaveLinx Digital Lighting Control Solutions

Integrated Sensor Coverage Pattern

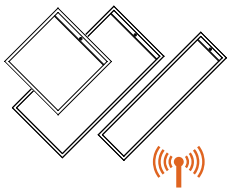


***Note**: Installation of integrated sensors within 3-ft (1m) of HVAC air vents is not recommended. The pattern shown is intended solely as a general guide and is not to scale.*

The CGRK with WaveLinx offers no-hassle lighting control with multiple luminaire level control solutions.

WaveLinx LITE is a cost effective, wireless digital lighting control solution, with out-of-the-box functionality, that saves energy and meets code. It's designed for applications that require occupancy-based, daylighting, or manual light control. Customize installations for office, education, warehouse and parking garages using the secure, simple mobile app.

With Integrated WaveLinx Sensor



Integrated Controls Options					
Option	**Out of the Box Functionality**	**Luminaire Level Lighting Control (LLLC)**	**Automatic Dimming Photocell**	**Occupancy Sensing**	**CCT Control**
WLS	X	X	X	X	

Systems performance chart

Cooper Lighting Solutions provides many lighting system solutions designed to satisfy code requirements and meet the unique needs of any project.

	Standalone Spaces WaveLinx LITE
Occupancy	Yes
Daylighting	Yes
Wallstations	Yes
Gateways	–
Devices (MAX)	40 per Area (1120 per space)
Software	WaveLinx LITE Mobile App
Areas	28 per Space
Zones	16 per Area
Scheduling	–
VividTune™	–
Plug-Load Contr	Yes
Low-Voltage Pov	–
Integration	–
Dashboards	–
Configuration	Installer

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

© 2025 Cooper Lighting Solutions
All Rights Reserved.

Specifications and dimensions subject to change without notice.