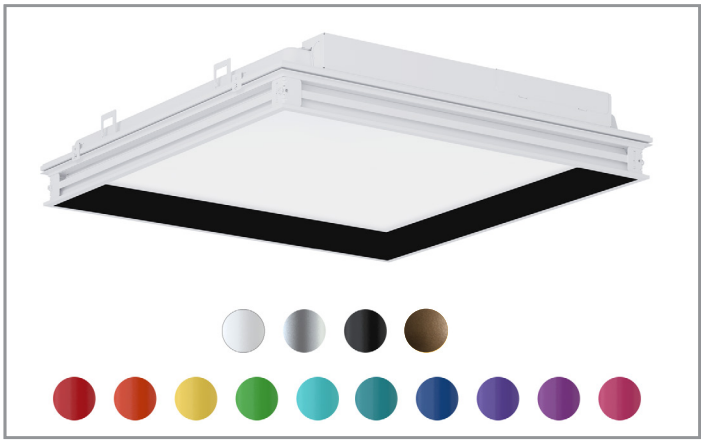
Project		**Catalog #**		**Type**	
Prepared by		**Notes**		**Date**	



Corelite

Perceive PTR

Recessed LED Specification Series
1' x 4', 2' x 2', 2' x 4'

Typical Applications

• Office Spaces • Education • Healthcare
• Retail • Municipal

Interactive Menu

Product Certification

Product Features

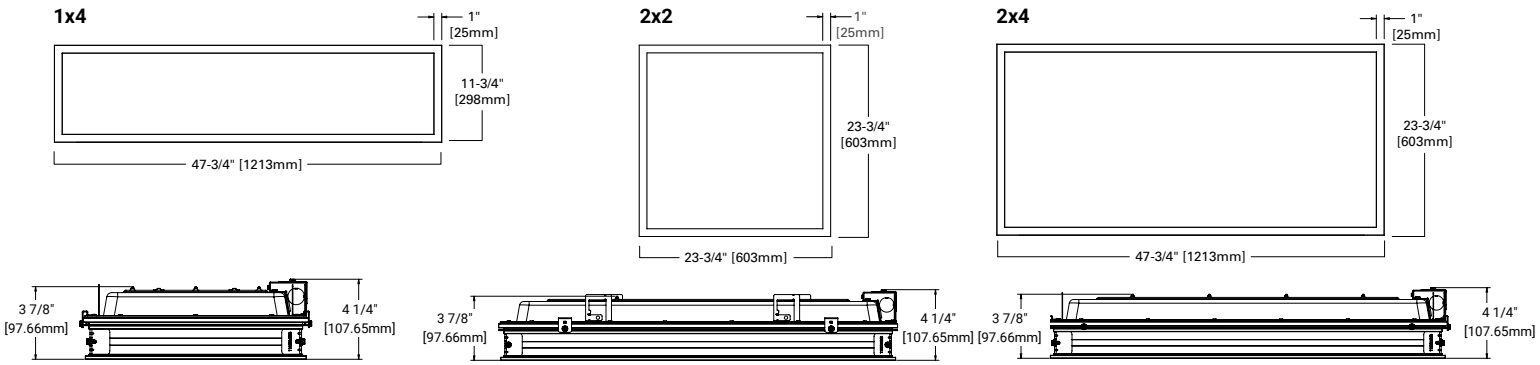
PERCEIVE Connected Systems · Bluetooth · BAA · BABA · damp location · LINEAR DISCONNECT — Designed to provide safe and convenient means of disconnecting power

Top Product Features

- Highly configurable recessed luminaire available in 1x4, 2x2, and 2x4 housing sizes.
- 2" beveled regress aluminum frame available in 14 standard colors adds true depth to grid ceilings
- Perceive Low Glare (PLG) lens delivers reduced UGR values.
- Perceive optical lens options add dimensionality, visual interest and glare reduction with options </= 14 UGR
- Options with reduced max luminance below 6000 CD/M2 in accordance with WELL v2 L04
- High lumen packages up to 10,000 lumens (2x4)
- Efficacy up to 129 lumens per watt
- 80CRI and 90CRI options in 3000K, 3500K, 4000K, 5000K CCT (5000K option in 80 CRI only)
- Bottom surface can be wiped down for easy cleaning and maintenance
- Integrated control available - WaveLinx Pro, WaveLinx Lite
- Options to meet Build America, Buy America, Buy American and other domestic preference requirements

Dimensional and Mounting Details

Fixture height with standard driver (no Controls, EM or Flex)



Note: See page 8 for additional dimensions including increased fixture height for alternate driver used with Controls, EM or Flex options.

Order Information

Color Key: Grey shading indicates options that are coming soon

SAMPLE ORDER NUMBER: **PTR-22-45-PB1-L940-UNV-STD-B**

Domestic Preferences [1]	Series	Size	1x4 Lumen Output[3]		2x2 Lumen Output[3]		2x4 Lumen Output[3]		Lens / Shielding Options
			Standard	High Efficiency [5]	Standard	High Efficiency [5]	Standard	High Efficiency [5]	
[Blank]=Standard **BAA**=Buy American Act **BABAF**=FHWA and FTA projects funded through October 1, 2026	**PTR**=Perceive Regress Series	**14**=1x4 **22**=2x2 **24**=2x4	**20S**=2000 lms **30S**=3000 lms **42S**=4200 lms	**20**=2000 lms **30**=3000 lms **40**=4000 lms **50**=5000 lms **60**=6000 lms **70**=7000 lms **80**=8000 lms	**20S**=2000 lms **25S**=2500 lms **35S**=3500 lms **45S**=4500 lms	**20**=2000 lms **25**=2500 lms **35**=3500 lms **45**=4500 lms **50**=5000 lms **60**=6000 lms	**20S**=2000 lms **30S**=3000 lms **35S**=3500 lms **40S**=4000 lms **45S**=4500 lms **55S**=5500 lms **65S**=6500 lms **72S**=7200 lms	**20**=2000 lms **30**=3000 lms **35**=3500 lms **40**=4000 lms **45**=4500 lms **50**=5000 lms **60**=6000 lms **72**=7200 lms **80**=8000 lms **90**=9000 lms **100**=10000 lms [4]	**[Blank]**=Frosted Lens **PB1**= Perceive Bevel **PC3**= Perceive PARAmid **PP3**= Perceive Prism **PW1**= Perceive Waves **PR1**= Perceive Ripple **PL1**= Perceive Leaves **PLG**=Perceive Low Glare
Notes (1) Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA), Trade Agreements Act of 1979 (TAA), or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. BABAF designates the product will meet the standards set for FHWA and FTA. As noted, these must be funded by October 1, 2026. Please refer to DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	**Notes**		**Notes** (5) High efficiency output must be selected for 90 CRI specifications (3) Lumens are nominal approximations. Refer to performance tables (page 5) and IES files for actual delivered lumens and wattage. (4) 2x4 100 lumen output option includes 2 drivers						**Notes** See page 3 for Perceive lens options

CCT/CRI	Voltage [2]	Ceiling	Driver/Dimming Options	Sensor Options[16]
L830=3000K, 80 CRI **L835**=3500K, 80 CRI **L840**=4000K, 80 CRI **L850**=5000K, 80 CRI **L930**=3000K, 90 CRI [6] **L935**=3500K, 90 CRI [6] **L940**=4000K, 90 CRI [6]	**UNV**=120-277 **347V**=347 [2]	**[Blank]**=15/16" & 9/16" Grid Lay-in (Flush), Concealed T, and Slot Grid	**[Blank]** = 0-10V dimming (10% - 100% dimming) **STD**=0-10V Driver (1%-100% Dimming) **5LT**=DALI Driver (1%-100% Dimming) [16] **SD**=Step Dimming Driver (50% or 100% Dimming) [16] **LH**=Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming [F], [16]	**[Blank]**=No Sensor **WLS (formerly WAB)**=WaveLinx LITE Wireless Sensor, Occupancy w/ photocell, Independent & Networked [19], [B] **WPS (formerly WAA)**=WaveLinx PRO Wireless Sensor, Occupancy w/ photocell, Networked [18], [A] **WLN**=WaveLinx LITE Wireless Control Node, without sensor [19], [B] **WPN**=WaveLinx PRO Wireless Control Node, without sensor [18], [A]
Notes (6) 90 CRI only available with High Efficiency outputs	**Notes** (2) 347V with sensor and/or emergencies only available with STD (0-10V) drivers.	**Notes**	**Notes** (16) Fixture height increases to 3-3/4".Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (F) Consult Marketplace Options - Lutron system pages for additional details and compatibility. Compatible only with driver series shown, and may require two or more drivers. Requires field commissioning to operate or dim. Contact Lutron at www.lutron.com.	**Notes** (16) Fixture height increases to 3-3/4". (19) Must be used with STD driver. Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (A) Consult WaveLinx PRO system pages for additional details and compatibility. (B) WaveLinx LITE devices are not currently compatible with the WaveLinx Wireless Area Controller. Consult WaveLinx LITE system pages for additional details and compatibility.

Emergency	Options	Finish	Packaging	Accessories (must be ordered separately)
[Blank]= No Emergency **EL7W**= 7-watt 120V-277V emergency battery pack [6][7] **EL10W**= 10-watt 120V-277V emergency battery pack [6][7] **EL14W**= 14-watt 120V-277V emergency battery pack [6][7] **EL10WSD**= 10-watt 120V-277V emergency battery pack installed, with self-diagnostics [6][7] **GTRD**= Emergency Transfer Relay with Dimming control [8][9]	**[Blank]**=15/16" & 9/16" Grid Lay-in (Flush), Concealed T, and Slot Grid **CP**= Chicago Plenum* **AM**= Antimicrobial Finish **Dimming Flex** **W6DIM** = 3/8" Flex with 0-10V Dimming Leads **Non-Dimming Flex** **W6** = A 3/8" Flex with Line and Common*	**W** = White **S** = Silver* **B** = Black* **RR** = Real Red* **OO** = Oasis Orange* **YY** = Yippee Yellow* **GG**= Gracious Green* **CC** = Cyprus Cyan* **TT** = Totally Turquoise * **BB** = Biosphere Blue* **PP** = Perfect Purple* **VV** = Vacation Violet* **MM** = Magic Magenta* **BZ** = Bronze* **C** = Custom Color (RAL)*** **Acoustic Frame Options[10] [12]** **ALG** = Acoustic Light Gray **APW** = Acoustic Pewter **ASL** = Acoustic Slate **AXX** = On Demand acoustic frame color**	**U** = Unit Pack **PAL** = Job Pack, out of carton	**EQ-CLIP-U** = EQ Clips [11] **TG-BRKT-U** = T-Grid bracket **DF-24W-U** = 2x4 dry wall frame kit **DF-22W-U** = 2x2 dry wall frame kit **DF-14W-U** = 1x4 dry wall frame kit
Notes (6) Fixture height increases to 3-3/4". (7) With integral test switch/ indicator. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. (8) Used to bypass local control during outage. Device is dual listed to UL 1008 (transfer switch) and UL 924 (switch bypass), 347V not available. (9) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). 347V not available.	**Notes** Flexible Metal Conduit Options Flex options available for 0-10V dimming control, DALI dimming control, emergency and night light functions. 72-inch factory-installed and pre-wired to driver, fitted to luminaire housing access plate with 90° enclosed FMC connector. Not all options may be combined and installation ratings vary by type. *Flex Whip not available with CP (Chicago Plenum)	**Notes** *All colors: (B, S, RR, OO, YY, GG, CC, TT, BB, PP, VV, MM, BZ) refer to 2" regress frame on PTR luminaire. C (Custom RAL Color) option only valid with aluminum regress options. ** Custom Color options available - Consult Factory for Details. (10) Acoustic frame options provided as field assembled and installed accessories. (12) Field install accessories must be reviewed by jurisdiction to confirm compliance to local codes ***See page 4 for additional On Demand acoustic color options (added lead time and added cost may apply)	**Notes**	**Notes** (11) An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture.

Product Specifications

Construction
- Robust die-formed steel back plate to ensure durability
- Housing is absent of holes to resist debris/bug intrusion
- Aluminum light engine frame weld and ground for a seamless appearance
- Extruded aluminum fixture regress frame with mitered corners at 2" nominal height in 14 powder coated color options

Finish
- Fixture housing is high reflectance matte white finish painted after fabrication
- 2" Extruded regress frame is factory installed and can be specified in 14 high quality powder coated options. Custom RAL colors available - contact factory for details
- Acoustic frame options available in 14 colors provided as field assembled and installed accessories. On Demand acoustic colors may be subject to higher costs and longer lead times.
- Antimicrobial paint finish available (see options)

Mounting
- Integral grid/EQ clips provided and include suspension / wire retention features
- Grid clip includes fold up hang points. Use FPSUS2 or other desired suspension methods for direct suspension
- T-grid brackets included for secure attachment to T-grid
- Large Junction box constructed of code gauge galvanized steel with access plate
- Multiple 7/8" KO's provided, suitable for up to 12AWG wiring
- Factory installed flexible conduit available to reduce installation time (See Options section for details)
- Drywall frame kits available for hard ceiling recessed installations. Drywall frame kits must be ordered separately as accessories.

Optics / Shielding
- Proprietary Perceive™ optical system enables dynamic perceived visual depth on a flat surface
- Bottom surface can be wiped down for easy cleaning and maintenance
- Durable lens system is greater than 2.7mm (0.107") thick and includes diffuser, 3D optical layer, and anti-glare lens
- Perceive micro-optic technology enables uniform distribution in a low-profile direct lit LED platform
- Perceive low glare lens option decreases high angle glare (UGR < 14) for enhanced visual comfort meeting WELL and LEED requirements.

Controls
- 0-10V dimming to 1% dimming standard
- WaveLinx wireless sensor compatible for standalone, controlled, connected, and IoT capability
- DALI 2.0, Lutron, and step-dimming options available (these options increase fixture height - see page 8 for details)

Electrical
- TM21 life at 72,000 hours up to L86 and calculated theoretical L70 exceeds 170,000 hrs
- LED's available in 3000K, 3500K, 4000K, or 5000K at 80 CRI or 90 CRI minimum (5000K at 80 CRI only)
- Color accuracy ≤3-Step MacAdam ellipse (SDCM)
- Integral emergency battery pack options available in 7W, 10W, and 14W. Test switch located on fixture lens band
- Self-diagnostic emergency battery available (NFPA 101® Life Safety Code®)
- Emergency/generator transfer options available
- Drivers available in 120-277V; 0-10V drivers also available in 347V
- Factory installed flexible conduit available to reduce installation time
- Chicago plenum available (See options)

Compliance
- cULus listed for 25°C ambient environments, indoor applications
- IC rated for direct insulation contact
- UL Damp location listed
- IP5X rated
- Tested to IESNA LM-79 and LM-80
- Stated life per TM21 standards
- Suitable for State of California Title 24 high efficacy luminaire
- Contributes to meeting several WELL™ v1 and v2 Features

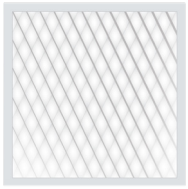
BABA Domestic Preference Compliance
- FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Cooper's products with a BAA designation are manufactured in the US and utilize a BAA COTS exemption rule for compliance. To verify a configured product with specific accessories and options meet BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams. Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

Warranty
- Five year limited warranty
- Extended warranty to 10 years available

Perceive Lens Options

Bevel

PARAmid

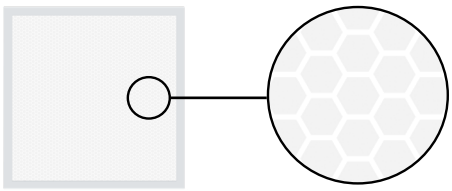

Prism


Waves

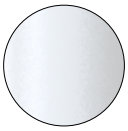
Leaves

Ripple

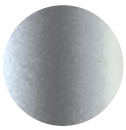
Perceive Glare Reduction Films


PLG low glare 2 mm hex pattern

Standard Finish Options



W - White



S - Silver

B - Black

BZ - Bronze

RR - Real Red
RAL 3020
Gloss

OO - Oasis Orange
RAL 2004
Gloss

YY - Yippee Yellow
RAL 1018
Gloss

GG - Gracious Green
RAL 6018
Gloss

CC - Cyprus Cyan
RAL 6027
Gloss

TT - Totally Turquoise
RAL 5018
Gloss

BB - Bioshere Blue
RAL 5017
Gloss

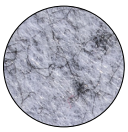
PP - Perfect Purple
RAL 4005
Gloss

VV - Vacation Violet
RAL 4008
Gloss

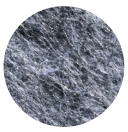
MM - Magic Magenta
RAL 4010
Gloss

RAL & custom colors available.
Consult Factory for Details

Standard Acoustic Color Options



ALG - Acoustic Light Gray



APW - Acoustic Pewter

ASL - Acoustic Slate

On Demand Acoustic Colors

(added lead time and added cost may apply):

AWH = Acoustic White

ABK = Acoustic Black (Tar)

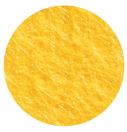
ABR = Acoustic Dark Brown

ATN = Acoustic Light Brown

ABR = Acoustic Brick Red

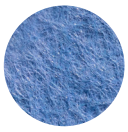
ARO = Acoustic Red Ochre

AOG = Acoustic Orange

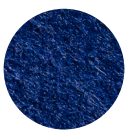


AYW = Acoustic Yellow

AGR = Acoustic Green



ASB = Acoustic Sky Blue



ACB = Acoustic Cobalt Blue (Cobalt)

Energy and Performance Data

Electrical & Optical Performance - PTR CRI - 80, CCT - 3500, Frame Color - White

Size	Lumen Package	Delivered Lumens								Input watts	Efficacy (LPW)								Current (A)	
		Frosted	PB1	PC3	PP3	PW1	PL1	PR1	PLG		Frosted	PB1	PC3	PP3	PW1	PL1	PR1	PLG	120V	270V
1x4	2000	1985	1946	1955	1974	1986	1973	1956	1886	16	124.1	121.6	122.2	123.4	124.1	123.3	122.3	117.8	0.14	0.06
	3000	2840	2784	2796	2824	2842	2823	2799	2698	23	123.5	121.0	121.6	122.8	123.5	122.8	121.7	117.3	0.20	0.08
	4000	3627	3743	3760	3797	3821	3795	3764	3818	32.1	113.0	116.6	117.1	118.3	119.0	118.2	117.3	118.9	0.27	0.12
	5000	4527	4672	4693	4740	4769	4738	4698	4766	40.9	110.7	114.2	114.8	115.9	116.6	115.8	114.9	116.5	0.34	0.15
	6000	5392	5564	5589	5644	5679	5642	5595	5675	49.8	108.3	111.7	112.2	113.3	114.0	113.3	112.3	114.0	0.42	0.18
	7000	6871	6736	6767	6833	6876	6830	6774	6527	63	109.1	106.9	107.4	108.5	109.1	108.4	107.5	103.6	0.52	0.23
	8000	7577	7428	7462	7536	7582	7532	7470	7198	71	106.7	104.6	105.1	106.1	106.8	106.1	105.2	101.4	0.59	0.26
2x2	2000	1939	1930	1969	1958	1970	1957	1941	1870	15	129.3	128.7	131.3	130.6	131.3	130.5	129.4	124.7	0.12	0.05
	2500	2397	2386	2434	2420	2436	2419	2400	2312	19	126.2	125.6	128.1	127.4	128.2	127.3	126.3	121.7	0.16	0.07
	3500	3319	3304	3370	3351	3373	3350	3322	3201	26	127.7	127.1	129.6	128.9	129.7	128.9	127.8	123.1	0.22	0.09
	4500	4400	4380	4467	4443	4470	4441	4404	4244	35	125.7	125.1	127.6	126.9	127.7	126.9	125.8	121.3	0.29	0.13
	5000	4830	4807	4903	4876	4906	4874	4834	4658	39	123.8	123.3	125.7	125.0	125.8	125.0	124.0	119.4	0.33	0.14
	6000	6043	6016	6136	6102	6140	6100	6049	5829	52	116.2	115.7	118.0	117.4	118.1	117.3	116.3	112.1	0.43	0.19
2x4	2000	1905	1867	1878	1893	1900	1897	1880	1809	15	127.0	124.5	125.2	126.2	126.7	126.5	125.3	120.6	0.13	0.05
	3000	2970	2912	2927	2952	2963	2959	2930	2822	24	123.8	121.3	122.0	123.0	123.5	123.3	122.1	117.6	0.20	0.09
	3500	3511	3443	3461	3490	3504	3498	3465	3336	28	125.4	122.9	123.6	124.6	125.1	124.9	123.7	119.1	0.24	0.10
	4000	4043	3963	3985	4018	4033	4027	3990	3841	33	122.5	120.1	120.8	121.7	122.2	122.0	120.9	116.4	0.27	0.12
	4500	4609	4518	4542	4580	4598	4591	4547	4378	37	124.6	122.1	122.7	123.8	124.3	124.1	122.9	118.3	0.31	0.13
	5000	5056	4957	4983	5025	5044	5036	4989	4803	41	123.3	120.9	121.5	122.6	123.0	122.8	121.7	117.1	0.34	0.15
	6000	6194	6072	6104	6156	6179	6170	6112	5884	51	121.4	119.1	119.7	120.7	121.2	121.0	119.8	115.4	0.42	0.18
	7200	7205	7064	7101	7162	7189	7178	7110	6845	60	120.1	117.7	118.4	119.4	119.8	119.6	118.5	114.1	0.50	0.22
	8000	8099	7940	7983	8050	8081	8068	7993	7694	68	119.1	116.8	117.4	118.4	118.8	118.7	117.5	113.2	0.57	0.25
	9000	8878	8704	8750	8824	8858	8844	8761	8434	76	116.8	114.5	115.1	116.1	116.6	116.4	115.3	111.0	0.63	0.27
	10000	9766	9575	9625	9707	9744	9729	9637	9278	85	114.9	112.6	113.2	114.2	114.6	114.5	113.4	109.2	0.71	0.31

Lumen Adjustment Factors

CCT Multiplier	80 CRI	90 CRI [2]
3000K	0.95	0.83
3500K	1.00	0.84
4000K	1.01	0.85
5000K	1.03	N/A

Notes: (2) 90 CRI only available in HE lumen outputs.

Lumen Maintenance

TM-21 Lumen Maintenance (72,000 hours)[3]	Theoretical L70 (hours) [4]
> 86%	> 170,000
Notes	
(3) Supported by IES TM-21 standards.	
(4) Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.	

Lumen Adjustment Factors

Black Regress Kit	0.95

Example of Lumen Adjustment Calculation

Converting PTR-24-45-F-L835-UNV-STD-W (80 CRI, 3500K with white regress) to PTR-24-45-F-L940-UNV-STD-B (90 CRI, 4000K with black regress)

Lumen Adjustment Factors = 0.85 for CRI/ CCT and 0.95 for regress

Total Light Output = 4609 lm x 0.85 x 0.95 = 3721 lm

Efficacy = 100.5 lm/W

Glare Data

Electrical & Optical Performance - PTR CRI - 80, CCT - 3500, Frame Color - White

Size	Lumen Package	UGR [CIE 190:2010] (1) (4H, 8H; Reflectance: 70% Ceiling, 50% Wall, 20% Ref. Plane)								Max Luminance [45-90 Deg from NADIR] (2) (CD/M^2)							
		Frosted	Bevel (PB1)	PARAmid (PC3)	Prism (PP3)	Waves (PW1)	Leaves (PL1)	Ripple (PR1)	PLG	Frosted	Bevel (PB1)	PARAmid (PC3)	Prism (PP3)	Waves (PW1)	Leaves (PL1)	Ripple (PR1)	PLG
1x4	2000	18.5	16.3	16.5	16.9	17.2	17.0	16.5	15.7	1931	1929	1861	1839	1865	1853	1877	1670
	3000	19.8	17.6	17.7	18.1	18.5	18.3	17.7	16.9	2762	2759	2663	2632	2668	2652	2686	2390
	4000	20.8	18.6	18.8	19.1	19.5	19.3	18.7	17.9	3714	3710	3581	3213	3588	3565	3612	3538
	5000	21.6	19.4	19.5	19.9	20.3	20.1	19.5	18.7	4635	4631	4470	4010	4478	4450	4508	4417
	6000	22.2	20	20.1	20.5	20.9	20.7	20.1	19.3	5520	5515	5323	4776	5333	5300	5368	5259
	7000	22.9	20.7	20.8	21.2	21.5	21.3	20.8	20.0	6683	6677	6445	6368	6456	6416	6499	5782
	8000	23.2	21.0	21.1	21.5	21.9	21.7	21.1	20.3	7370	7362	7107	7023	7119	7075	7167	6376
2x2	2000	18.5	16.3	16.5	16.8	17.2	17.0	16.4	15.6	1915	1913	1847	1825	1850	1839	1862	1657
	2500	19.3	17.1	17.2	17.6	17.9	17.7	17.2	16.4	2367	2365	2283	2255	2278	2272	2302	2048
	3500	20.4	18.2	18.3	18.7	19.1	18.9	20.4	17.5	3278	3274	3161	3123	3167	3147	3188	2836
	4500	21.4	19.2	19.3	19.7	20.0	19.8	18.3	18.5	4378	4341	4190	4140	4197	4171	4225	3759
	5000	21.7	19.5	19.6	20.2	20.4	20.2	19.3	18.8	4769	4765	4600	4544	4607	4579	4638	4126
	6000	22.5	20.3	20.4	20.8	21.2	20.9	19.6	19.6	5968	5963	5755	5687	5765	5731	5804	5164
2x4	2000	16.0	13.8	13.9	14.3	14.7	14.5	13.9	13.1	926	925	894	882	892	891	902	802
	3000	17.5	15.3	15.5	15.8	16.2	16.0	15.5	14.7	1444	1443	1394	1375	1391	1390	1406	1250
	3500	18.1	15.9	16.1	16.4	16.8	16.6	16.0	15.2	1708	1706	1648	1626	1445	1643	1662	1478
	4000	18.6	16.4	16.6	16.9	17.3	17.1	16.5	15.7	1966	19634	1898	1872	1894	1892	1914	1701
	4500	19.1	16.9	17.0	17.4	17.7	17.5	17.0	16.2	2241	2239	2163	2134	2158	2156	2181	1939
	5000	19.4	17.2	17.3	17.7	18.1	17.9	17.3	16.5	2459	2456	2373	2341	2368	2365	2393	2127
	6000	20.1	17.9	18.0	18.4	18.8	18.6	18.0	17.2	3012	3009	2907	2868	2901	2898	2932	2606
	7200	20.6	18.4	18.6	18.9	19.3	19.1	18.5	17.7	3503	3500	3382	3337	3375	3371	3411	3032
	8000	21.0	18.8	19.0	19.3	19.2	19.5	18.9	18.1	3939	3935	3801	3751	3794	3790	3834	3408
	9000	21.3	19.1	19.3	19.6	20.0	19.8	19.3	18.5	4317	4313	4167	4112	4159	4154	4203	3735
	10000	21.7	19.5	19.6	20.0	20.3	20.2	19.6	18.8	4749	4745	4584	4523	4574	4570	4623	4109

Notes:
(1) 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 or Luminance < 6,000).

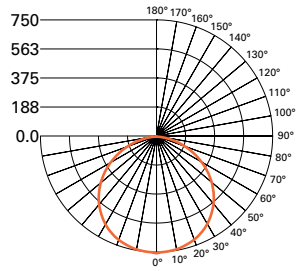
UGR and Luminance values that meet LEED v4.1 requirements for Glare Control are shown with green text (UGR < 19 or Luminance < 7,000).

Key

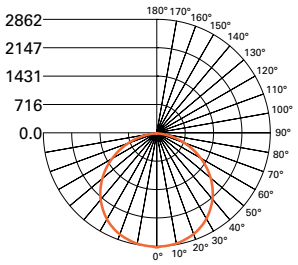
	Meets WELL v2
TEXT	Meets LEED v4.1

Photometric Data

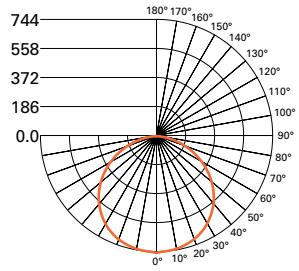
View IES files



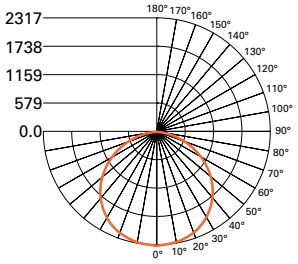
PTR-14-20-L835-UNV-STD-W
Electronic Driver
LED 3500K
Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.21 x mounting height
Lumens: 1984.9
Input Watts: 16 W
Efficacy: 124.1 LPW
Test Report: PTR-14-20-L835-UNV-STD-W.IES



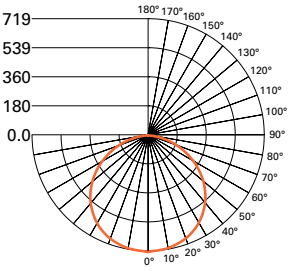
PTR-14-80-L835-UNV-STD-W
Electronic Driver
LED 3500K
Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.21 x mounting height
Lumens: 7577
Input Watts: 71W
Efficacy: 106.7 LPW
Test Report: 14PTR-80-L835-UNV-STD-W.IES



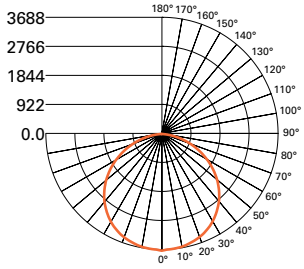
PTR-22-20-L835-UNV-STD-W
Electronic Driver
LED 3500K
Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.21 x mounting height
Lumens: 1939
Input Watts: 15 W
Efficacy: 129.3 LPW
Test Report: 22PTR-20-L835-UNV-STD-W.IES



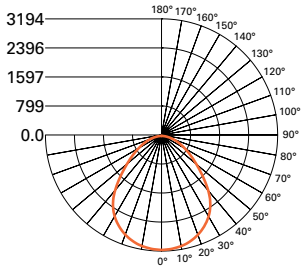
PTR-22-60-L835-UNV-STD-W
Electronic Driver
LED 3500K
Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.21 x mounting height
Lumens: 6043
Input Watts: 52 W
Efficacy: 116.2 LPW
Test Report: 22PTR-60-L835-UNV-STD-W.IES



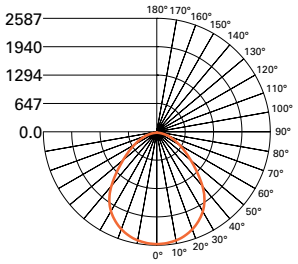
PTR-24-20-L835-UNV-STD-W
Electronic Driver
LED 3500K
Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.21 x mounting height
Lumens: 1904.6
Input Watts: 15 W
Efficacy: 127 LPW
Test Report: 24CGTX-45-L835.IES



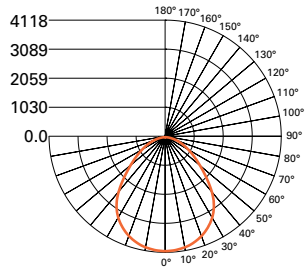
PTR-24-100-L835-UNV-STD-W
Electronic Driver
LED 3500K
Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.21 x mounting height
Lumens: 9766.4
Input Watts: 85 W
Efficacy: 114.9 LPW
Test Report: 24PTR-100-L835-UNV-STD-W.IES



PTR-14-80-PLG-L835-UNV-STD-W
Electronic Driver
LED 3500K
Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.21 x mounting height
Lumens: 7198.2
Input Watts: 71 W
Efficacy: 101.4 LPW
Test Report: PTR-14-80-PLG-L835-UNV-STD-W.IES



PTR-22-60-PLG-L835-UNV-STD-W
Electronic Driver
LED 3500K
Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.21 x mounting height
Lumens: 5829.4
Input Watts: 52 W
Efficacy: 112.1 LPW
Test Report: PTR-22-60-PLG-L835-UNV-STD-W.IES

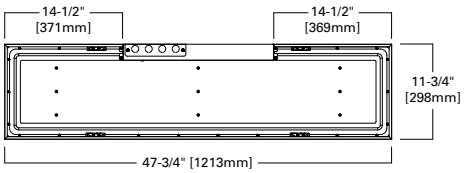


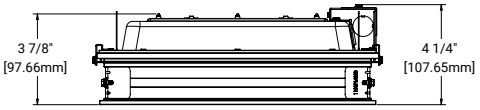
PTR-24-100-PLG-L835-UNV-STD-W
Electronic Driver
LED 3500K
Spacing criterion: (II) 1.27 x mounting height, (⊥) 1.21 x mounting height
Lumens: 9278
Input Watts: 85 W
Efficacy: 109.2 LPW
Test Report: PTR-24-100-PLG-L835-UNV-STD-W.IES

Dimensional and Mounting Details

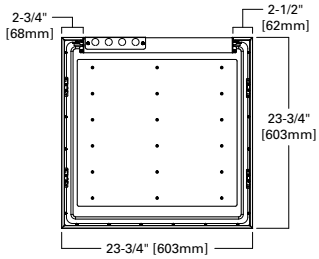
Standard driver - No controls, EM, or Flex

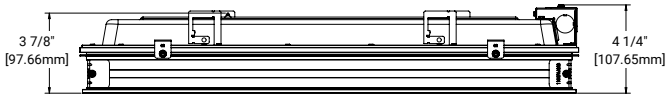
1x4



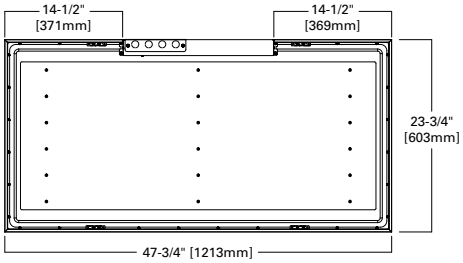


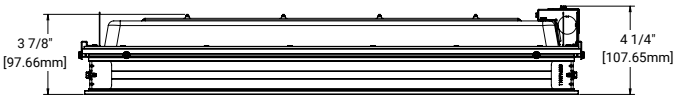
2x2





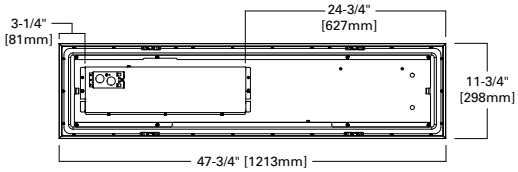
2x4

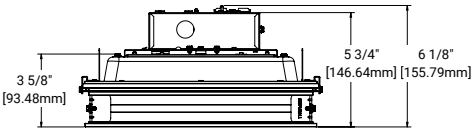




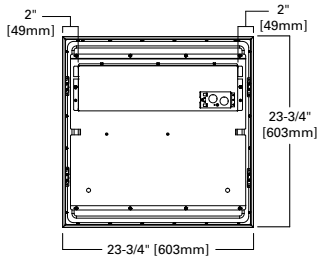
Alternative driver Used with controls, EM, or Flex

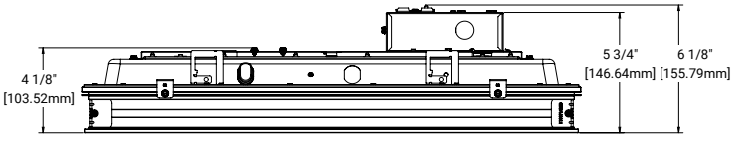
1x4



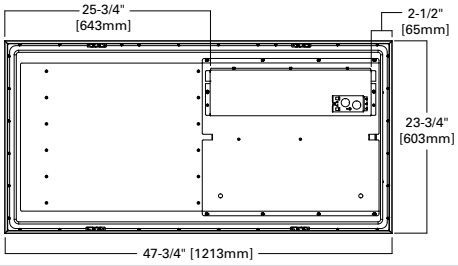


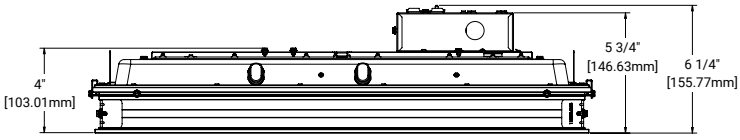
2x2





2x4





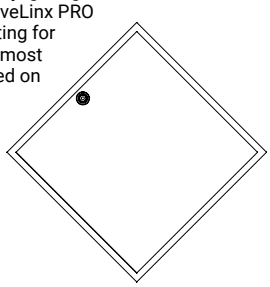
Control Solutions

- WaveLinx LITE wireless
- WaveLinx PRO wireless
- WaveLinx CAT wired
- WaveLinx Wired

The Perecieve PT Series with WaveLinx offers no-hassle lighting control with multiple luminaire level control solutions.

WaveLinx PRO is used for applications where spaces need to be connected to a lighting or building management system and to help building owners improve their operations, building environment, and tenants' experience by leveraging the data generated by the sensors. The WaveLinx PRO devices communicate with each other via the WaveLinx Area Controller which coordinates the data traffic between the devices, lighting apps and CORE platform. The WaveLinx Area Controller also hosts the time clock required if spaces need to be turned on/off at a specific time.

The WaveLinx PRO Sensor offers built-in occupancy and daylighting controls as well as luminaire level control including white tuning while the WaveLinx PRO Node offers luminaire level control and white tuning. If opting for the WaveLinx PRO Node option, a PRO Ceiling Sensor will most likely be needed within the space to control the lights based on occupancy and daylight levels.

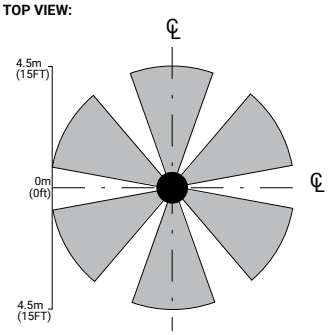


WaveLinx LITE is used for single spaces where there is no need to manage the spaces remotely or exchange the sensor data with other sub-systems within the building or smart applications.

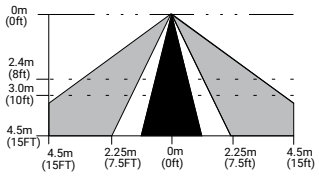
The WaveLinx LITE Sensor offers built-in occupancy and daylighting controls as well as luminaire level control.

Integrated Sensor Coverage Pattern

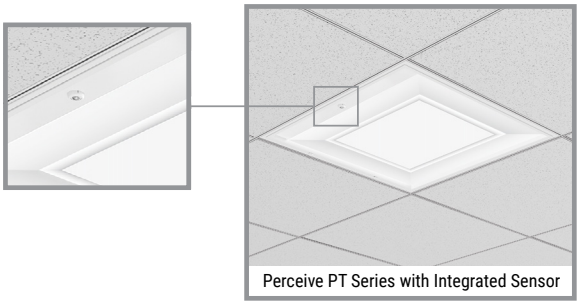
TOP VIEW:



SIDE VIEW:



***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.*



Perceive PT Series with Integrated Sensor

Systems comparison chart

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

	 **Luminaire with standalone sensor**	 **Standalone Spaces** WaveLinx LITE	 **Standalone Spaces** WaveLinx CAT	 **Networked Spaces** WaveLinx PRO	 **Enterprise** WaveLinx CORE
Occupancy	Yes	Yes	Yes	Yes	Yes
Daylighting	Yes	Yes	Yes	Yes	Yes
Wallstations	–	Yes	Yes	Yes	Yes
Gateways	–	–	–	1 WAC	300 WACs
Devices (MAX)	–	40 per Area (1120 per space)	40 per Area	200 per WAC2	32,500 per CORE Enterprise
Software	–	WaveLinx LITE Mobile App	WaveLinx CAT Mobile App	WaveLinx Mobile App	CORE
Areas	–	28 per Space	Unlimited	50 per WAC2	up to 3,000
Zones	–	16 per Area	16 per Area	16 per Area	up to 9,000
Scheduling	–	–	–	Local	Global
VividTune™	–	–	–	Yes	Yes
Plug-Load Control	–	Yes	Yes	Yes	Yes
Low-Voltage Power	–	–	Yes	Yes	Yes
Integration	–	–	–	–	BACnet, API
Dashboards	–	–	–	–	Energy, Occupancy
Configuration	–	Installer	Installer	Technician	Technician / IT