DESCRIPTION

Cruze LED is a premium grade specification lensed troffer series. This innovative, high quality luminaire is dedicated to the latest solid state lighting and driver technology for optimal performance and energy efficiency. The Cruze is compatible with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility.

The Cruze series features efficiency, quality and performance. The series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.

SPECIFICATION FEATURES

Construction

Rigid housing is die formed of code gauge prime cold rolled steel and features full length die-formed stiffeners and unibody endplate for added strength. Side flanges are hemmed. Innovative design provides superior lens brightness uniformity and visual comfort. Unibody endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided.

Controls

The Cruze LED is Powered by Fifth Light, with a standard 0-10V continuous dimming driver that works with any 0-10V control/ dimmer. Combine with energy saving products like occupancy sensors, daylighting controls and lighting relay panels to maximize energy savings. In addition, the Cruze can include a factoryinstalled integrated sensor system for occupancy and daylight dimming control and manual control from an optional handheld remote. Or, specify the Digital Addressable Lighting Interface (DALI) drivers, dimmable down to 10%, for use with Fifth Light controls. See ordering information for details on all three options.

Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3000K, 3500K, 4000K or 5000K with a CRI ≥ 85. Projected life is 60,000 hours at 83% lumen output. cULus listed. Electronic drivers are available for 120-277V applications.

Emergency Battery Pack Option

Optional 120v-277v integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring codecompliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. See ordering information for details.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition. Housing finished with 90% reflective white enamel for superior performance.



Catalog #

Project

Comments

Prepared by

Positive cam action steel latches with baked white enamel finish. Safety-lock T-hinges allow hinging and latching either side. Door assembly hinges down for easy access from below.

Frame/Sheilding

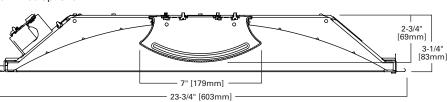
Die formed, heavy gauge, flat steel door with reinforced mitered corners and painted after fabrication, baked matte white enamel finish. Positive light seals. Acrylic frosted lens.

Compliance

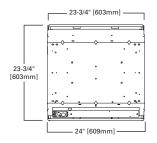
Modules are UL recognized components and indoor luminaires are cULus listed for 25°C ambient environments, RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium[™] Qualified and classified for DLC Standard, refer to www. designlights.org for details.

Warrantv

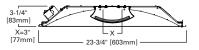
Five year warranty.



MOUNTING DATA



LAMP CONFIGURATIONS











Trim Type Standard Standard Standard



Date

Metalux

Туре



22CZ LED

2' X 2' TROFFER LED MODULE

Specification Grade Troffer





CERTIFICATION DATA

cULus - 1598 Damp Location Listed IC Rated LM79/LM80 Compliant **ROHS** Compliant DesignLights Consortium[™] Qualified NOM Compliant

*See Drywall Frame Kit Accessory in Ordering Information Section





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Concealed T

CEILING COMPATIBILITY

PHOTOMETRICS



22CZ-LD4-24-UNV L835-CD1-U Electronic Driver Linear LED 3500K Spacing criterion: 603 (II) 1.2 x mounting height, (\perp) 1.3 x mounting height Lumens: 2417 Input Watts: 22.6W Efficacy: 106.9 lm/ Test Report: 22CZ-LD4-24-UNV-L835-CD1-U.IES

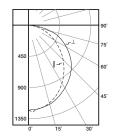
Angle	Along II	45°	Across \perp
0	861	861	861
5	857	868	855
10	842	844	843
15	815	821	828
20	776	788	801
25	731	747	770
30	676	700	733
35	618	648	697
40	557	595	657
45	494	539	612
50	429	482	561
55	365	426	503
60	301	369	443
65	240	310	381
70	181	251	319
75	124	190	228
80	73	118	137
85	31	45	43
90	0	0	0

Coefficients of Utilization

Effe	ectiv	e floo	or cav	ity ref	lecta	nce	20	%									
	8	0%			7	0%			50	%		30%	ó		10%	, 0	0%
70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24
	70 119 108 98 90 82 75 70 65 60 56	8 70 50 119 119 108 104 98 90 90 79 82 70 75 62 70 56 65 51 60 46 56 43	80% 70 50 30 119 119 119 108 104 99 98 90 83 90 79 70 82 70 61 75 56 47 65 51 42 60 46 38 56 43 34	80% 70 50 30 10 119 119 119 119 108 104 99 95 98 90 83 77 90 79 70 64 82 70 61 54 70 56 47 41 65 51 42 36 60 46 38 32 56 43 34 29	80% 70 50 30 10 70 119 119 119 116 108 104 99 95 106 98 90 83 77 96 90 79 70 64 87 82 70 61 54 80 70 56 47 41 68 65 51 42 36 63 60 46 32 55 55	80% 7 70 50 30 10 70 50 119 119 119 116 116 108 104 99 95 106 101 98 90 83 77 96 88 90 79 70 64 87 77 82 70 61 54 80 68 70 56 47 41 68 55 65 51 42 34 22 58 46 56 43 34 29 55 42	70 50 30 10 70 50 30 119 119 119 116 116 116 116 108 104 99 95 106 101 97 98 90 83 77 96 88 82 90 79 70 64 87 77 69 82 70 61 54 80 68 60 75 62 53 46 73 61 53 70 56 47 41 68 55 47 65 51 42 32 56 43 34 29 56 43	80% 70% 70 50 30 10 70 50 30 10 119 119 119 119 116 116 116 116 108 104 99 95 106 101 97 94 98 90 83 77 96 88 82 76 90 79 70 64 87 77 69 63 82 70 61 54 80 68 60 54 75 62 53 46 73 61 53 46 70 56 47 41 68 55 47 40 65 51 42 36 63 30 32 58 46 38 32 56 43 34 29 55 42 34 29	80% 70% 70 50 30 10 70 50 30 10 50 119 119 119 116 116 116 116 111 108 104 99 95 106 101 97 94 97 98 90 83 77 96 88 82 76 84 90 79 70 64 87 77 69 63 74 82 70 61 54 80 68 60 54 66 75 62 53 46 73 61 53 46 59 70 56 47 41 68 55 47 40 53 65 51 42 36 63 50 42 36 48 56 43 34 29 55 42 34 29 41 <	80% 70% 500 70 50 30 10 70 50 30 10 50 30 119 119 119 116 116 116 116 111 111 108 104 99 95 106 101 97 94 97 94 90 93 77 96 88 82 76 84 79 90 79 70 64 87 77 69 63 74 68 82 70 61 54 80 68 60 54 65 51 70 56 47 41 68 55 47 40 53 46 65 51 42 36 63 50 42 36 48 14 60 46 32 25 42 34 29 44 37 66 <	80% 70% 50% 70 50 30 10 70 50 30 10 119 119 116 116 116 111 111 111 108 104 99 95 106 101 97 94 91 98 90 83 77 96 88 82 76 84 97 74 90 79 70 64 87 77 69 63 74 65 53 75 62 53 46 73 61 53 46 55 51 46 70 56 47 41 68 55 47 40 53 46 40 65 51 42 36 63 50 42 36 48 41 32 66 43 34 29 55 42 34 29 41 <	80% 70% 50% 70 50 30 10 70 50 30 10 50 119 119 119 116 116 116 111 111 111 106 108 104 99 95 106 101 97 94 97 94 91 93 98 90 83 77 96 88 82 76 84 79 74 81 90 79 70 64 87 77 69 63 74 68 62 71 82 70 61 54 80 65 54 65 55 64 75 62 53 46 73 61 53 46 59 51 46 65 59 53 64 70 56 47 41 68 55 47 40 53 46 40	80% 70% 50% 30% 70 50 30 10 70 50 30 10 10	80% 70% 50% 30% 70 50 30 10 70 50 30 10 50 80 50 50 50 50 88 82 76 84 77 73 50 55 56 50 56 55 56	80% 70% 50% 30% 70 50 30 10 70 50 30 10 50 100 102 102 100 102 102 100 102 100 102 100 102 100 102 100 <td>80% 70% 50% 30% 10% 70 50 30 10 70 50 30 10 102 <td< td=""><td>80% 70% 50% 30% 10% 70 50 30 10 70 50 30 10 50 102 102 <</td></td<></td>	80% 70% 50% 30% 10% 70 50 30 10 70 50 30 10 102 <td< td=""><td>80% 70% 50% 30% 10% 70 50 30 10 70 50 30 10 50 102 102 <</td></td<>	80% 70% 50% 30% 10% 70 50 30 10 70 50 30 10 50 102 102 <

Zonal Lumen Summary

Zone	Lumens	% Fixture	
0-30	658	27.2	
0-40	1065	44.1	
0-60	1869	77.3	
0-90	2417	100.0	
0-180	2417	100.0	



L835-CD1-U **Electronic Driver** Linear LED 3500K Spacing criterion: (II) 1.2 x mounting height, (\perp) 1.3 x mounting height Lumens: 3420 Input Watts: 34.5W Efficacy: 99.1 lm/W Test Report: 22CZ-LD4-34-UNV-L835-CD1-U.IES

22CZ-LD4-34-UNV-	Candlepower							
L835-CD1-U	Angle	Along II	45°	Across ⊥				
Electronic Driver	0	1219	1219	1219				
Linear LED 3500K	5	1214	1229	1211				
	10	1192	1194	1194				
Spacing criterion:	15	1153	1162	1173				
(II) 1.2 x mounting	20	1100	1116	1135				
height, (⊥) 1.3 x	25	1032	1057	1090				
mounting height	30	957	990	1040				
mounting neight	35	875	918	987				
Lumens: 3420	40	788	842	931				
Input Watts: 34.5W	45	699	763	866				
	50	608	684	793				
Efficacy: 99.1 lm/W	55	516	604	710				
Test Report:	60	427	522	624				
	65	339	439	536				
22CZ-LD4-34-UNV-	70	255	355	448				
L835-CD1-U.IES	75	175	269	321				
	80	102	166	190				
	85	43	63	58				
	90	0	0	0				
ation								

Coefficients of Utilization

	Effe	ectiv	e floo	or cavi	ity ref	lecta	nce	209	%									
rc		8	0%			7	0%			50%	6		30%	6		10%	, 0	0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
1 2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
<u>4</u> 5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
6	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

Zonal Lumen Summary

Lumens	% Fixture	
931	27.2	
1508	44.1	
2645	77.3	
3420	100.0	
3420	100.0	
	931 1508 2645 3420	931 27.2 1508 44.1 2645 77.3 3420 100.0



ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic (Ribbed)	Delivered Lumens	Watts	Efficacy (Im/W)
MTO	22CZ-LD4-20-UNV-L830-CD1-U	1888	18.9	100
MTO	22CZ-LD4-20-UNV-L835-CD1-U	2056	18.9	108
MTO	22CZ-LD4-20-UNV-L840-CD1-U	2166	18.9	114
MTO	22CZ-LD4-20-UNV-L850-CD1-U	2261	18.9	119
MTO	22CZ-LD4-24-UNV-L830-CD1-U	2220	22.6	98
Stock	22CZ-LD4-24-UNV-L835-CD1-U	2417	22.6	107
Stock	22CZ-LD4-24-UNV-L840-CD1-U	2547	22.6	113
MTO	22CZ-LD4-24-UNV-L850-CD1-U	2658	22.6	118
MTO	22CZ-LD4-29-UNV-L830-CD1-U	2682	28.2	95
MTO	22CZ-LD4-29-UNV-L835-CD1-U	2920	28.2	103
MTO	22CZ-LD4-29-UNV-L840-CD1-U	3077	28.2	109
MTO	22CZ-LD4-29-UNV-L850-CD1-U	3211	28.2	114
MTO	22CZ-LD4-34-UNV-L830-CD1-U	3141	34.4	91
Stock	22CZ-LD4-34-UNV-L835-CD1-U	3420	34.4	99
Stock	22CZ-LD4-34-UNV-L840-CD1-U	3603	34.4	105
MTO	22CZ-LD4-34-UNV-L850-CD1-U	3761	34.4	109
MTO	22CZ-LD4-39-UNV-L830-CD1-U	3589	41.3	87
MTO	22CZ-LD4-39-UNV-L835-CD1-U	3908	41.3	95
MTO	22CZ-LD4-39-UNV-L840-CD1-U	4118	41.3	100
MTO	22CZ-LD4-39-UNV-L850-CD1-U	4298	41.3	104
MTO	22CZ-LD4-44-UNV-L830-CD1-U	4035	49.2	82
MTO	22CZ-LD4-44-UNV-L835-CD1-U	4394	49.2	89
MTO	22CZ-LD4-44-UNV-L840-CD1-U	4630	49.2	94
MTO	22CZ-LD4-44-UNV-L850-CD1-U	4832	49.2	98

a		.		
Stock or MTO*	Catalog Logic (Smooth Lens)	Delivered Lumens	Watts	Efficacy (Im/W)
MTO	22CZ-LD4-20-S-UNV-L830-CD1-U	1912	18.9	101
MTO	22CZ-LD4-20-S-UNV-L835-CD1-U	2082	18.9	110
MTO	22CZ-LD4-20-S-UNV-L840-CD1-U	2194	18.9	116
MTO	22CZ-LD4-20-S-UNV-L850-CD1-U	2290	18.9	121
MTO	22CZ-LD4-24-S-UNV-L830-CD1-U	2248	22.6	99
MTO	22CZ-LD4-24-S-UNV-L835-CD1-U	2448	22.6	108
MTO	22CZ-LD4-24-S-UNV-L840-CD1-U	2579	22.6	114
MTO	22CZ-LD4-24-S-UNV-L850-CD1-U	2692	22.6	119
MTO	22CZ-LD4-29-S-UNV-L830-CD1-U	2715	28.2	96
MTO	22CZ-LD4-29-S-UNV-L835-CD1-U	2957	28.2	105
MTO	22CZ-LD4-29-S-UNV-L840-CD1-U	3116	28.2	110
MTO	22CZ-LD4-29-S-UNV-L850-CD1-U	3252	28.2	115
MTO	22CZ-LD4-34-S-UNV-L830-CD1-U	3180	34.4	92
MTO	22CZ-LD4-34-S-UNV-L835-CD1-U	3463	34.4	100
MTO	22CZ-LD4-34-S-UNV-L840-CD1-U	3649	34.4	106
MTO	22CZ-LD4-34-S-UNV-L850-CD1-U	3808	34.4	110
MTO	22CZ-LD4-39-S-UNV-L830-CD1-U	3634	41.3	88
MTO	22CZ-LD4-39-S-UNV-L835-CD1-U	3957	41.3	96
MTO	22CZ-LD4-39-S-UNV-L840-CD1-U	4170	41.3	101
MTO	22CZ-LD4-39-S-UNV-L850-CD1-U	4352	41.3	105
MTO	22CZ-LD4-44-S-UNV-L830-CD1-U	4086	49.2	83
MTO	22CZ-LD4-44-S-UNV-L835-CD1-U	4450	49.2	90
MTO	22CZ-LD4-44-S-UNV-L840-CD1-U	4688	49.2	95
MTO	22CZ-LD4-44-S-UNV-L850-CD1-U	4893	49.2	99
MTO MTO MTO MTO MTO MTO MTO MTO	22CZ-LD4-39-S-UNV-L830-CD1-U 22CZ-LD4-39-S-UNV-L835-CD1-U 22CZ-LD4-39-S-UNV-L840-CD1-U 22CZ-LD4-39-S-UNV-L850-CD1-U 22CZ-LD4-44-S-UNV-L830-CD1-U 22CZ-LD4-44-S-UNV-L835-CD1-U 22CZ-LD4-44-S-UNV-L840-CD1-U	3634 3957 4170 4352 4086 4450 4688 4893	41.3 41.3 41.3 41.3 49.2 49.2 49.2	88 96 101 105 83 90 95

*Made to order (MTO) requires a typical four week lead time.

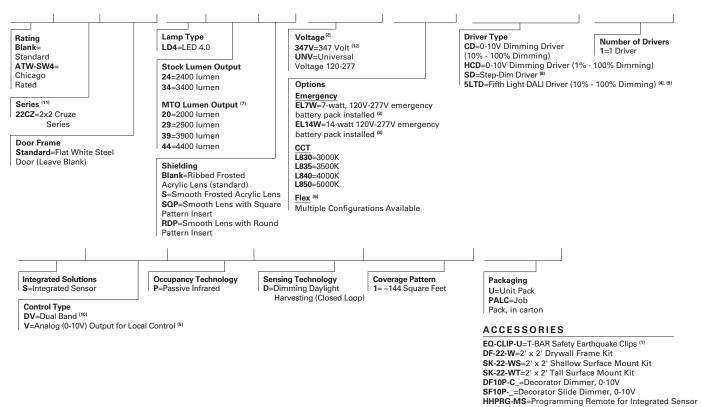
LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 hours)	Theoretical L70 (Hours)
25°C	> 83%	> 117,000

*Made to order (MTO) requires a typical four week lead time.



SAMPLE NUMBER: 22CZ-LD4-34-UNV-L835-CD1-U



NOTES: ⁽¹⁾An EQ Grid Clip is recommended for all 9/16" ceiling systems. Four required per fixture. ¹²⁾Products also available in non-US voltages and frequencies for international markets. ⁽³⁾ With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watto f 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. ⁽⁴⁾ With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watto f 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. ⁽⁴⁾ With sub te used in conjunction with a DALI control system. For a complete listing of Fifth Light Technology products and other solutions from Cooper Controls, visit www.eaton.com/lightingsystems ⁽⁶⁾ Integral sensor works only with "CD" driver and is factory prewired to the driver for stand-alone control. ⁽⁶⁾ Flex does not include dimming leads. Control leads provided by others. ⁽⁷⁾ Made-to-order (MTO) requires a typical four week leadtime. ⁽⁶⁾ Step dim driver option is not available with 2000, 2400 and 2900 lumen packages. ⁽⁶⁾ Fifth Light (5LTD) driver option is not available with 2000, 2400 and 2900 lumen packages. ⁽⁶⁾ Fifth Light (5LTD) driver option is not available with 2000, 2400 and 2900 lumen packages. ⁽⁶⁾ Fifth Light (5LTD) driver option is not available with 2000, 2400 and 2900 lumen packages. ⁽⁶⁾ Fifth Light (5LTD) driver option is not available with 2000, 2400 and 2900 lumen packages. ⁽⁶⁾ Fifth Light (5LTD) driver option is not available with 2000, 2400 and 2900 lumen packages. ⁽⁶⁾ Fifth Light (5LTD) driver option is not available with 2000, 2400 and 2900 lumen packages. ⁽⁶⁾ To available with 2000 available with 2000, 2400 and 2900 lumen packages. ⁽⁶⁾ Fifth Light (5LTD) driver option is not available with 2000, 2400 and 2900

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

QUICK SHIP SKUS

SAMPLE NU	MBER: 22C	Z34S40	
22CZ		S	
Series	Lumens	Shielding	ССТ
22CZ	24 =2400	S=Smooth	35=3500K
	34 =3400	Frosted	40 =4000K
		Acrylic	
		Lens	

NOTES: Options are not available with these SKUs. Refer to standard SKU ordering information to add options. Voltage is 120-277V. Driver type is 0-10V dimming. Lead-time is 10 days. Must be ordered in pallet quantities only (48 per pallet).

SHIPPING DATA

Catalog No.	Wt.
22CZ-LD4-27	12.5 lbs.
22CZ-LD4-36	12.5 lbs.



Description

This innovative luminaire-integrated sensor control system is optimized for code-compliant occupancy detection and daylight harvesting – all from within the foot print of Metalux's award-winning recessed ambient luminaires.

No New Wires

An in-place fixture retrofit is all that's needed to meet most energy codes in commercial spaces. The sensor system is factory wired to the luminaire, switching on or off based on occupancy, and dimming the light when enough daylight is available.

Sophisticated lighting control without commissioning

The luminaire-integrated sensor system offers out-of-the-box operation using thoughtful default settings.

Flexibility and Individual Control

When the application demands more, the sensor system has the option to make changes using a remote control. The remote allows changes from the default settings for occupancy, target light level, preset lighting levels, and more.

Cost-effective, Stand-alone Operation

With a single product to mount and a single electrical connection to make, the Metalux luminaire with an integrated sensor system saves money on the total installed cost when occupancy or daylight harvesting controls are needed. The integrated sensor system works stand-alone, without the need for additional switches and dimmers. When manual-on, manual dimming or other code-required control schemes are needed, please see the comprehensive offering of Greengate and Fifth Light solutions from Cooper Controls at www.coopercontrol.com.

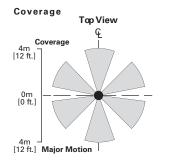
Metalux Integrated Sensor Sequence of Operation

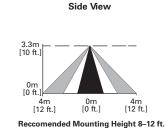
The occupancy sensing portion of the sensor uses Passive Infrared (PIR) technology with Auto-on/Auto-off operation. The small lens in the center of the sensor directs the view of a passive infrared occupancy detector to sense occupants moving through the room. To trigger the light on, an occupant must cross at least two passive infrared beams. When motion in the coverage area ceases, the sensor logic concludes the room is unoccupied, and begins a count-down timer. By default, the timer is factory-set to 20 minutes, and can be adjusted to 5, 10, 15 and 20 minutes using the optional remote control, model number HHPRG-MS. Any motion detected during the count-down timer will cause the light to remain on and resets the timer. When motion is detected, a red LED will blink. In addition to the default on/off functionality, the sensor has an Energy Saver feature, where the light can be set to dim to a preset level after the sensor detects no occupancy for half of the count-down timer, when the timer is complete the lighting will change to the unoccupied setting. The Energy Saver feature works when the count-down timer is set to at least 15 minutes, and the preset level and feature are configured using the optional remote control. See the Sensor Programming Guide that comes with the HHPRG-MS remote for details on this feature. The sensitivity of the occupancy detection can be adjusted, using the HHPRG-MS remote. By default, the sensor operates at the full detection range shown on the coverage pattern diagram. Using the "LO" button on the HHPRG-MS remote, reduces the sensor detection range by 50%. Full coverage can be restored at any time by pressing the "HI" button on the remote. The red LED indicator will blink repeatedly to confirm any programming change.

The dimming daylight harvesting portion of the sensor uses a small photo sensor located next to the occupancy sensing lens. The sensor continuously measures the available light in the room, even when the fixture is turned off. This allows sensor to operate in one of three daylighting modes, where the artificial light from the paired Metalux luminaire can adjust the light based on the amount of ambient light from surrounding natural and artificial light sources. Since the sensor measures light from its luminaire along with other light sources, this sensor follows a closed-loop dimming daylight harvesting style. The first mode, Daytime, is active when the sensor detects light of at least 100 lux in the room. In Daytime mode, when the light is turned on after detecting occupancy, the sensor will begin balancing the luminaire light level relative to the total available light it measures. The default light balancing target in daytime mode is 500 lux. This level can be adjusted higher or lower using the optional HHPRG-MS remote, and pressing "SET" and then the "DO" (Daytime Occupied) button to store the new light level. Similarly, the Daytime Unoccupied, "DU" has a default of level of 0 lux, or off, but can be adjusted higher to prevent the lights from turning off completely when unoccupied. More details on this function are found in the Sensor Programming Guide for the HHPRG-MS remote.

The next two modes, Twilight and Nighttime, function in a similar way, allowing the artificial light to adjust to different levels based on the surroundings. While primarily for use in outdoor luminaires, these modes are available for use in areas with a wide range of natural light, including atriums, day lit stairwells, and rooms with large or continuous windows. The Twilight mode is active when the sensor detects 50-100 lux in the off position, and has a 300 lux default light balancing target. The Nighttime mode is active when the sensor detects less than 50 lux, and has a 250 lux default light balancing target. Like the Daytime mode, there are separate settings for Twilight Occupied ("TO"), Twilight Unoccupied ("TU"), Nighttime Occupied ("NO") and Nighttime Unoccupied ("NU") which can be adjusted and set using the optional HHPRG-MS remote.

In addition to programming the sensor, the optional HHPRG-MS remote can be used for personal control to adjust the lighting temporarily override the functions of the sensor temporarily. The remote has raise/lower buttons to adjust the light level for special tasks, as well as a power button to turn the lights on or off. Unless the SET button and another function is selected, any changes made using these buttons will revert to the programmed settings after the sensor has detected no occupancy for its programmed time out, and turned off the lighting. The next time the sensor detects occupancy, it will revert to its programmed settings for count-down timer and light balancing.









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Specifications and dimensions subject to change without notice.