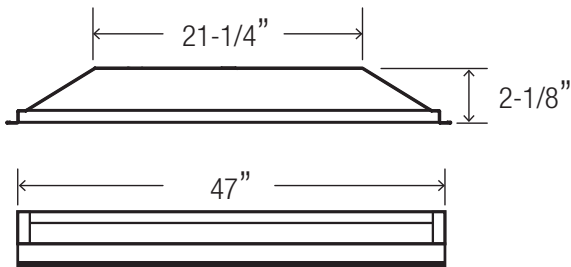




MULTI-LUMEN
SELECTOR

EASY 3 COLORS
SELECTOR
3500K-4000K-5000K

2'X4' DIMENSIONS



NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
5000	5271	37 W
4000	4148	29 W
3000	3245	22 W

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

FEATURES

The OVHP-RTK is a DLC Premium-qualified architectural-grade troffer retrofit kit that makes it easy to upgrade fluorescent troffers to LED. One-piece construction allows the fixture to be accessed from the bottom without having to remove the lens. Easily adjust output and color temperature in the field with multi-lumen and multi-CCT selector switches. Brighter, volumetric illumination makes this troffer retrofit kit ideal for offices, hallways, conference rooms, warehouses, gymnasiums, retail, hospitality, commercial, and healthcare applications.

LUMENS	3000/4000/5000
CCT & DYNAMIC PLATFORMS	35K/40K/50K
CRI	85+
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	1'x4', 2'x2', 2'x4'
MOUNTING	Recessed
DIMMING & CONTROL	0-10V Flicker Free 1% Dimming Standard (DIM10)
EMERGENCY	10W - Up to 1000L 20W - Up to 2000L
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



MAINTENANCE

The center acrylic diffuser is secured tightly to the body with screws, so the lens will not detach from the fixture when undergoing cleaning, in multi-storied spaces, or in high-vibration areas. The center acrylic diffuser can be removed, allowing easy access to LED boards.

OPTICAL SYSTEM

LED light engines are attached directly to the housing and keep LED engines cool. An advanced thermal management system allows the light output of the LED engines to be maintained at 80% of initial lumens at 60,000 hours of operation. Frosted acrylic lens gathers light scattered by the LED chips and delivers highly efficient volumetric lighting, eliminating unwanted shadows and surface glare.

CONSTRUCTION

The LED light engine is secured to the body of the luminaire, with the body acting as a heat sink. Housing is constructed of heavy-duty 20-gauge cold-rolled steel for maximum strength and long-life, post-painted with a 93% reflective white coat to protect against rusting, corrosion, and for safety of use when handling the fixture. All corners are rounded to remove sharp edges for safe handling.

FINISH

Post-painted with a 93% reflective white coat to improve luminaire efficacy, with all body components seamlessly interlocked for added structural strength.

MULTI-LUMEN, MULTI-CCT SELECTOR SWITCHES

Lumen and CCT selector switches are clearly visible and identifiable on the back of the fixture for easy adjustability. No need to remove the lens to access the two switches. One switch controls CCT and another switch operates lumens, allowing the contractor to easily mix and match intensity and color temperatures in the field.

MOUNTING

Compatible with surface mounting and for fixtures with recessed with recessed housings of 3-1/8" depth or greater.

Fast, Simple Installation

Can be installed into existing housings with 3-1/8" depth or greater.

1. Open the cover of the existing fixture. Remove all florescent tubes and internal components.
2. Remove the cover. Disconnect ballast.
3. Slide the 2 provided hanger bars into each side of the existing housing.
4. Slide in one end of the fixture onto a hanger bar. Secure with a self-tapping screw.
5. Secure aircraft cable to frame of the housing. Connect your wiring.
6. Flip fixture up and secure in place by pushing built-in tabs inward.

OPTIONS

Flange kits and surface mount kits are available as additional accessories. A factory-installed 10 or 20W 90-min. emergency battery is also available. Consult factory for details. Option for Made in America compliance.

DRIVER ELECTRICAL INFORMATION

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120/277V input. Available in 347V., produce less than 20% THD, and have a power factor of .90 to 1.00.

DIMMING & DRIVER INFORMATION

DIM10 - Flicker Free 1% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277V.

WARRANTY

Five-year warranty for parts and components. (Labor not included)

LISTINGS

cULus
DLC Premium

Example: **24-OVHP-RTK-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85**

24	OVHP-RTK	LED							
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
24 - 2' X4'	OVHP-RTK - LED Retrofit Kit	LED	3000L/4000L/5000L	DIM10 - 0-10V Dimming	MVOLT	35K/40K/50K	85	0-EMG-LED-10W 0-EMG-LED-20W	FBF - Internal Fast Blow Fuse SBF - Internal Slow Blow Fuse USA - Made in America Compliance

24-OVHP-RTK-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K-85(3000L)

TEST NO.: EL12261988

INPUT WATTS: 22

LUMENS: 3245

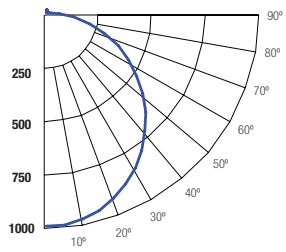
CRI: 85

EFFICACY: 148

CCT: 40K

SPACING CRITERIA: 1.42

Candle Power Distribution (Candelas)



Cone of Light			
Beam Dia. (ft)	Beam Dia. (m)	Beam Dia. (ft)	Beam Dia. (m)
2	346	5.0	7.4
4	91.9	9.6	14.3
6	40.0	14.6	21.6
8	22.3	19.6	29.0
10	14.5	24.2	35.9
12	10.0	29.2	43.3

BEAM DIA. MEASURED AT 50% OF NAIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	366.22	11.30	11.30
0-30	781.63	24.10	24.10
0-40	1291.79	39.80	39.80
0-60	2346.26	72.40	72.30
0-80	3079.14	95.00	94.90
0-90	3198.17	98.60	98.60

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	2514	2645	2796
55	2438	2661	2927
65	2366	2733	3187
75	2182	2997	3815
85	1943	3909	4506

Lumens Per Zone

Zone	Lumens
0-10	94.64
10-20	271.58
20-30	415.41
30-40	510.17
40-50	541.41
50-60	513.06
60-70	430.62
70-80	302.25
80-90	119.03

Candela Tabulation

Q	0	1000.419
0	5	997.180
15	25	960.460
35	45	887.760
55	65	785.780
75	85	661.110
90	95	520.190
100	110	371.990
120	140	210.060
140	170	62.990
160	190	14.820

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
	0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99			
	1	107	102	97	93	104	99	95	91	95	91	88	91	88	85	87	84	82	80			
	2	97	88	80	74	94	86	79	73	82	76	71	78	74	69	75	71	68	65			
	3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	66	61	56	54			
	4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	58	53	48	46			
	5	74	60	51	44	71	59	50	43	56	49	43	54	47	42	52	46	41	39			
	6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34			
	7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30			
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	39	33	29	27				
9	54	41	32	27	53	40	32	26	39	31	26	38	31	26	36	30	26	24				
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22				

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

24-OVHP-RTK-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K-85(4000L)

TEST NO.: EL12261989

INPUT WATTS: 28.7

LUMENS: 4148

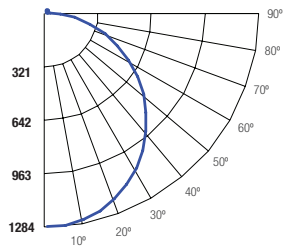
CRI: 85

EFFICACY: 145

CCT: 40K

SPACING CRITERIA: 1.42

Candle Power Distribution (Candelas)



Cone of Light			
Beam Dia. (ft)	Beam Dia. (m)	Beam Dia. (ft)	Beam Dia. (m)
2	444	5.0	7.4
4	118	9.6	14.3
6	51.3	14.6	21.6
8	28.6	19.5	29.0
10	18.6	24.2	35.9
12	12.8	29.1	43.3

BEAM DIA. MEASURED AT 50% OF NAIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	469.73	11.30	11.30
0-30	1000.72	24.10	24.10
0-40	1649.44	39.80	39.80
0-60	2998.31	72.30	72.30
0-80	3935.46	95.00	94.90
0-90	4087.77	98.60	98.50

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	3219	3394	3589
55	3119	3419	3757
65	2982	3511	4088
75	2783	3847	4823
85	2464	5039	5754

Lumens Per Zone

Zone	Lumens
0-10	121.41
10-20	348.33
20-30	530.99
30-40	648.72
40-50	691.19
50-60	657.68
60-70	551.04
70-80	386.11
80-90	152.32

Candela Tabulation

Q	0	1283.555
0	5	1279.430
15	25	1232.340
35	45	1138.190
55	65	1006.850
75	85	846.540
90	95	665.440
100	110	468.700
120	140	267.910
140	170	79.890
160	190	18.380

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
	0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99	
	1	107	102	97	93	104	99	95	91	95	91	88	91	88	85	87	84	82	80	
	2	97	88	80	74	94	86	79	73	82	76	71	78	74	69	75	71	68	65	
	3	88	77	68	61	85	75	67	60	72	65	59	69	63	58	66	61	56	54	
	4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	58	53	48	46	
	5	74	60	51	44	71	59	50	43	56	49	43	54	47	42	52	46	41	39	
	6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34	
	7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30	
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	39	33	29	27		
9	54	41	32	27	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	51	38	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

24-OVHP-RTK-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K-85(5000L)

TEST NO.: EL12261990

INPUT WATTS: 37.7

LUMENS: 5271

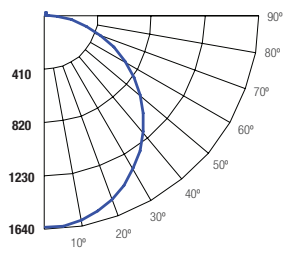
CRI: 85

EFFICACY: 140

CCT: 40K

SPACING CRITERIA: 1.40

Candle Power Distribution (Candelas)



Cone of Light			
2	568	4.9	7.4
4	151	9.5	14.3
6	65.6	14.5	21.6
8	36.5	19.4	29.0
10	23.8	24.0	35.9
12	16.4	28.9	43.3
(FT) Distance to Plane	(FC) Initial Footcandle at Nadir	(FT) Beam Vert. Spread	(FT) Beam Horiz. Spread

1- Luminaire will be shipped with Powerpacks pre-installed, ready to be integrated to designated control systems

2- Luminaire will be shipped with Sensors installed on the luminaire, allowing for individual luminaire control. Luminaires will be ready to be integrated with designated control systems

3- Luminaire will be shipped with Sensors to be remotely installed on the ceiling. Luminaires will be ready to be integrated with designated control systems

BRAND	EASYFIT by EnOcean	LUTRON	enlighted	LEVITON®	OSRAM	PHILIPS EasySense	legrand®
CONTROL UNIT	☐ LEDRU LED Relay Zone Controller 0-10V ¹	☐ FCJS-0-10 Lutron Vive 0-10V Individual Control Models ^{1 4}	☐ CU-4E-FMH Fixture Mount Control Unit ^{1 5}	☐ ZL027 –NOW Intellect Power Control Module ^{1 6}	☐ EN-WCM2-ZB-DR Wireless Control Module ^{1 7}	☐ XITANIUM SR LED DRIVER The Philips Advance Xitanium SR LED driver ^{1 8}	☐ LMFC-011 ON/OFF/0-10V dimming fixture controller ^{1 9}
	☐ LEDDU LED Zone Controller 0-10V ¹	☐ FCJS-ECO Lutron Vive Eco-system Individual Control Models ^{1 4}		☐ ZL027 –DLE Intellect Power Control Module ^{1 6}	☐ EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module ^{1 7}		☐ FS-PP-V2 FS-PP Fixture Integrated Sensor Power Pack ^{1 9}
INTEGRAT OCCOPANCY& DAYLIGHT SENSOR	N/A	☐ DFCSJ-OEM-OCC Clear Connect (RF) and Occupancy/ Daylight Sensing ²	☐ SU-5E-IoT IoT Node Micro Sensor ☐ SU-5E-CL Connected Micro Sensor ☐ SU-5E-IL Independent Micro Sensor ☐ SU-5S-H(IoT/CL/IL) Serface Mount Sensor (Must be Specified with CU- 4E-FMH Control Unit) ²	☐ ZL00J -TOW Intellect Intelligent Fixture Control System ²	☐ EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor	☐ SNS200 SNS200 for grouping ²	☐ FD-301 Fixture integrated Daylight Dimming Sensor ²
			☐ ZL00J-DOW Intellect Intelligent Fixture Control System ²	☐ ZBHA- CLM-DIM-ENC Connected Lighting Module DIM ²	☐ SNS300 SNS300 for networks ²	☐ FS-205 Fixture integrated passive infrared occupancy sensor ²	
*WIRELESS OCCUPANCY SENSOR	☐ EOSCU-W-EO Occupancy Sensor - Ceiling Mounted ³	☐ LRF2-OCR2B-P-WH Ceiling mount360° ,occupancy/vacancy sensor ³	N/A	N/A	☐ EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³	N/A	☐ LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor ³
*WIRELESS DAYLIGHT SENSOR	☐ ELLSU-W-EO Light Level Sensor - Ceiling Mounted ³	☐ LRF2-DCRB-WH Ceiling-mount daylight sensor ³	N/A	N/A	☐ EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³	N/A	☐ LMLS-400 Single zone switching and dimming digital photosensor ³
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	N/A	N/A	☐ SU-5E-IoT IoT Node Micro Sensor ☐ SU-5E-CL Connected Micro Sensor ☐ SU-5E-IL Independent Micro Sensor ☐ SU-5S-H(IoT/CL/IL) Serface Mount Sensor (Must be specified with CU- 4E-FMH Control Unit) ³	☐ ZL00J -TOW Intellect Intelligent Fixture Control System ☐ ZL00J-DOW Intellect Intelligent Fixture Control System (Must be specified with ZL027-NOW and ZL00J- DOW Control unit) ³	☐ EN-CLM- PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor ☐ ZBHA- CLM-DIM-ENC Connected Lighting Module DIM (Must be specified with EN-WCM2-ZB-DR or EN- ALC-ZB-BK-DR Control Unit) ³	☐ SNS200-CMP SNS-200 for Grouping ³	N/A
ACCESORIES	N/A	N/A	☐ TMC-SU-5E Tile Mount Carrier ☐ CBL-5E-CU4-30N 30 linch Sensor cable for CU-4 and IoT Ready ☐ CBL-5E-CU4-7F 7 Foot sensor cable for CU-4 and IoT Ready Driver	N/A	N/A	N/A	N/A
NOTES	N/A	4- Luminaire will be compatible with LUTRON LRF2-OCR2B-PWH Ceiling mount 360deg occupancy/ vacancy sensor & LRF2-DCRB-WH ceiling mount daylight sensor. Sensors must be orderd through Lutron	5- Luminaire will be compatible with ENLIGHTED SU-5E-IoT, SU-5E-CL, SU-5E-IL, SU-5SH, Sensors	6- Luminaire will be compatible with LEVITON I ntellect APP & Keypad room controller	7- Luminaire will be compatible with EN-SCPPH-1500-ZB Wireless passive infrared occupancy and photo sensor	8- Luminaire will be compatiable with philips field and wireless switch	9- Luminaire will be compatible with DLM Room control system LMPB-100. . Sensors must be orderd through Legrand.