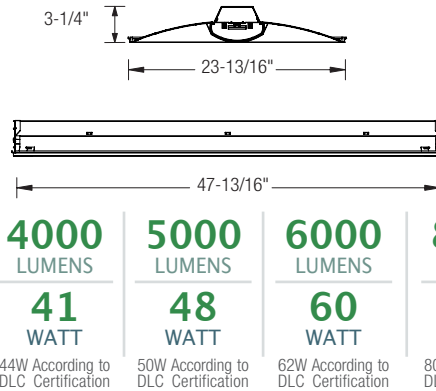


2X4 LED SHALLOW RECESSED VOLUMETRIC LUMINAIRE



CALCULATED
L90
LIFETIME
70,000 HRS



* For list of qualified DLC fixture, please consult factory

The OVHP-LED provides a very pleasant volumetric soft light that fills any interior space giving it a larger, brighter, and more productive ambiance. The delivered comfortable and evenly distributed light eliminates surface shadows and ensures a glare-free environment perfect for offices, schools, multipurpose rooms, hospitals and most interior spaces. With a CRI of 85+ and a great thermal management design, the OVHP-LED lay-in will be the perfect fit for any application.

PRODUCT FEATURES:

- An economic option for volumetric lighting applications
- Highly efficient linear extruded acrylic frosted lens delivers volumetric illumination
- Reflected light from engineered white sloping interior fixture reflectors provide a secondary wide beam distribution angle to deliver exceptionally high total fixture efficiency performance
- Low profile fits into standard T-bar applications as well as shallow spaces
- Post-painted with a 93% reflective white coat to improve fixture efficacy
- Rated at 85+ CRI and available in multiple CCTs
- Binned to a 3-step MacAdam ellipses to achieve consistent color from fixture to fixture
- Life tested to ensure light output up to 70,000 hours of operation to L90
- Tested to LM-79 and LM-80 standards
- Dimmable down to 1% with compatible dimming systems
- LED light engine is completely removable and upgradable

- LED lighting technology offers the highest return on initial investment over the lifetime of the fixture
- LEDs are individually spaced at small intervals to eliminate any dark spots when combined with our diffusers
- Wipe-down clean design makes the OVHP-LED easy to maintain
- Emergency battery back-up comes pre-installed on the fixture and emergency push button is installed on the fixture for easy access and aesthetics.
- All sides and corners are turned in and hemmed, removing sharp edges for safe handling and installation
- Four corner tie points are standard for safety wire support when required and built-in earthquake clips standard
- Fits into standard T-bar sizes including 5/8th, 3/8th, and slot T
- Same-day shipping on most options (Consult factory)

OPTICS - The enclosed linear extruded acrylic lens of the OVHP-LED gathers light scattered by the LED chips and delivers highly efficient volumetric lighting to any interior location, including commercial, residential, educational, and professional environments.

DURABILITY - Heavy-duty 20-gauge steel housing is engineered for maximum strength. Corners interlock to prevent aesthetic damage to fixture. All sides and corners are turned in and hemmed to remove sharp edges for safe handling and installation. Low profile design keeps height of fixture below 4 inches. The OVHP-LED is post-painted with a high 93% reflective white coat to improve the overall efficacy of the fixture.

PERFORMANCE - The OVHP-LED architectural lay-in fixtures meet high efficacy codes in compliance with more than 93 LPW. The OVHP-LED powered lighting technologies offer a higher return on investment than any other lighting technology. The light engines found in the OVHP-LED are rated at 85+ CRI and available in multiple CCTs: 3000K, 3500K, 4000K and 5000K. All LEDs and LED fixtures are rated and tested to LM-79 and LM-80 standards. The LEDs are also binned to a 3-step MacAdam ellipses to achieve consistent color from fixture to fixture.

THERMAL MANAGEMENT - LED light engines are attached directly to the housing and keep LED engines cool. Our advanced thermal management system allows the light output of the LED engines to be maintained at 90% of initial lumens at 70,000 hours of operation.

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

MAINTENANCE - LED engines and driver can be accessed through the bottom by removing the lamp shield and center reflector. Fixture can be regularly and safely wiped down to ensure optimal fixture performance.

DIMMING - The OVHP-LED comes standard with **DIM10**, 0-10V dimming on either 120 or 277V. Dimmable down to 1% of initial lumens. Also available in Lutron dimming options. Consult factory for dimmer compatibility. **LUTH** - Lutron Hilume Dimming down to 1% compatible with 3 wire and EcoSystem Controls available on all fixtures up to 50 Watts. **LUT2W** - Lutron 2 Wire Dimming down to 1% compatible with 2 wire and Forward Phase Control Systems available on all fixtures up to 50 Watts. **LUTFTB** - Lutron Hilume Fade to Black Dimming down to 1% compatible with EcoSystem Controls available on all fixtures up to 75 Watts. **DIMST** - Step Dimming allows fixtures to be turned on at 100% or 50% is available for fixtures up to 50 Watts. **ELD010.1** - EdoLED SoloDrive 0-10V. Dimming down to .1%. available on all fixtures up to 100 Watts. **ELD0DALI** - EdoLED PowerDrive 0-10V. Dimming down to .1%. available on all fixtures up to 100 Watts. **ELD0DMX** - EdoLED PowerDrive Dimming down to .1%. available on all fixtures up to 100 Watts. Please see EdoLED website for wiring diagrams and a list of compatible DMX and Dali control systems.

OPTIONS - Fixtures can be shipped pre-installed with daylight harvesting controls, occupancy sensors, and/or power pack. Available manufacturer options include Leviton, Wattstopper, Hubbell Automation, and others.

QUALITY CONTROL - Every fixture is turned on and rigorously tested by our QC Department before shipping.

WARRANTY - Limited 5 Year Warranty



Ordering Information: Example: 24-OVHP-LED-4000L-DIM10-MVOLT-30K-85

FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
24 - 2' X 4'	OVHP-Oracle Shallow Volumetric Series	LED	4000L - (4000 lumens) 5000L - (5000 lumens) 6000L - (6000 lumens) 8000L - (8000 lumens)	DIM10 - 0-10V Dimming * DIMST - Step Dimming * LUTH - Lutron Hilume * LUT2W - Lutron 2Wire LUTFTB - Lutron Fade to Black ELD010.1 - EdoLED 0-10V ELD0DALI - EdoLED DALI ELD0DMX - EdoLED DMX	MOVOLT 347* * Consult factory for details	30K - (3000K) 35K - (3500K) 40K - (4000K) 50K - (5000K)	85	0-EMG-LED	24FK - Flange Kit for 2' X 4' Fixture FBF - Internal Fast Blow Fuse SBF - Internal Slow Blow Fuse RIS - Radio Interference Suppressor USA - Made in America Compliance AIR - Air Return (consult factory) FS-PPV2 - Fixture Sensor Power Pack FD-301 - Daylight Dimming Photosensor FS-305RC - Low Voltage Motion Sensor FS-355 - Line Voltage Motion Sensor LMFC-011 - Digital Lighting Manager

* DIMST, LUTH and LUT2W dimming options are only available for the fixtures up to 5000 lumens.

PHOTOMETRY DATA

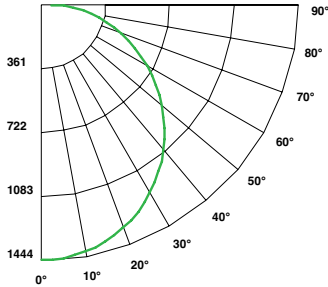
24-OVHP-LED-4000L

WATTAGE: 41W

LUMENS: 4254

TOTAL LUMINAIRE EFFICACY: 104

Candle Power Distribution (Candelas)



Spacing Criteria

0-180 : 1.24
90-270 : 1.28
Diagonal : 1.38

EFFICACY: 104 LM/W

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	1115.22	N.A.	26.20
0-40°	1826.12	N.A.	42.90
0-60°	3240.21	N.A.	76.20
0-90°	4253.74	N.A.	100.00
0-180°	4253.74	N.A.	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	3471	3575	3719
55°	3218	3442	3677
65°	2873	3308	3677
75°	2415	3304	3956
85°	1715	4082	5603

Candela Tabulation

	0	45	90
0	1439.276	1439.276	1439.276
5	1437.230	1432.860	1433.400
15	1379.760	1375.000	1379.620
25	1269.890	1269.750	1283.270
35	1112.070	1122.580	1147.150
45	912.990	940.280	978.250
55	686.640	734.440	784.570
65	451.650	520.080	578.000
75	232.510	318.060	380.820
85	55.610	132.320	181.640
90	2.350	25.620	52.040

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC	RW	80%				70%				50%				30%				10%				0%
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
	1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82			
	2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68			
	3	89	78	70	63	86	76	69	62	73	67	61	69	65	60	68	63	59	57			
	4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48			
	5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42			
	6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36			
	7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32			
	8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29			
	9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23				
RC - Ceiling Cavity Reflectance					RW - Wall Reflectance																	

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

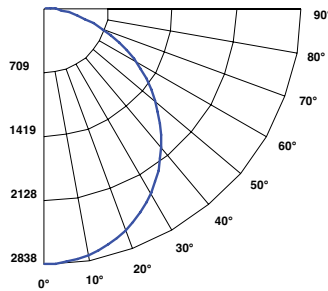
24-OVHP-LED-8000L

WATTAGE: 83.1

LUMENS: 8345

TOTAL LUMINAIRE EFFICACY: 100

Candle Power Distribution (Candelas)



Spacing Criteria

0-180 : 1.24
90-270 : 1.26
Diagonal : 1.38

EFFICACY: 100 LM/W

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	2199.97	26.40	26.40
0-40°	3600.91	43.20	43.10
0-60°	6369.49	76.30	76.30
0-90°	8345.41	100.00	100.00
0-180°	8345.41	100.00	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	6878	6959	7145
55°	6405	6671	7006
65°	5758	6388	6949
75°	4836	6254	7247
85°	3718	7085	8591

Candela Tabulation

	0	45	90
0	2836.505	2836.505	2836.505
5	2827.310	2818.170	2818.170
15	2715.810	2701.460	2707.450
25	2503.030	2490.050	2505.480
35	2197.210	2194.860	2223.280
45	1809.000	1830.280	1879.300
55	1366.580	1423.250	1494.690
65	905.220	1004.220	1092.320
75	465.610	602.080	697.710
85	120.540	229.690	278.520
90	4.580	5.200	5.340

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC	RW	80%				70%				50%				30%				10%				0%	
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	0%			
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100			
	1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82				
	2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70	68				
	3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57				
	4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48				
	5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42				
	6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36				
	7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32				
	8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29				
	9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26				
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					
RC - Ceiling Cavity Reflectance					RW - Wall Reflectance																		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

LED
2'X4'
OVHP

LED Shallow Recessed Volumetric Luminaire