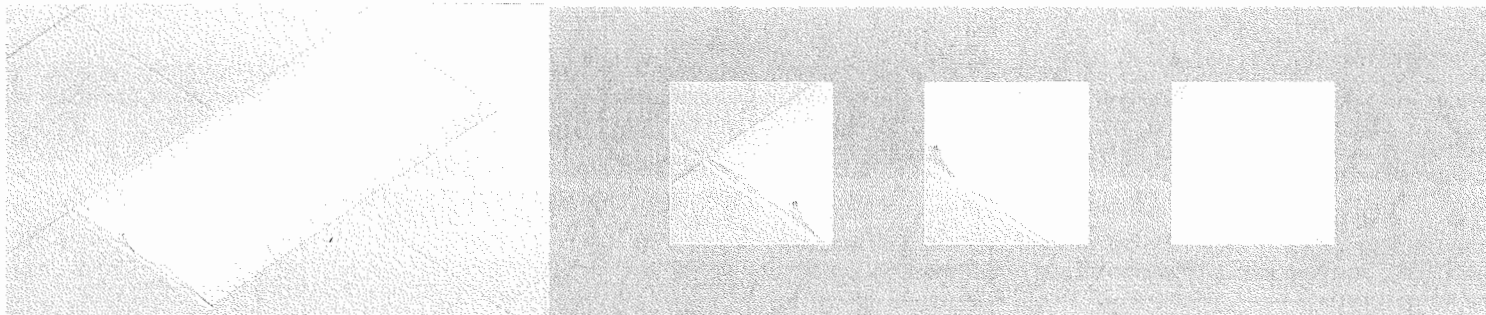




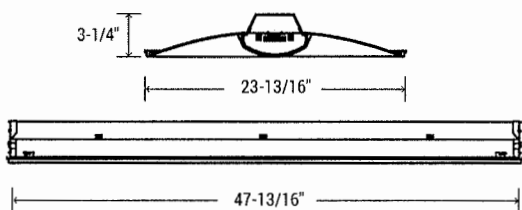
24-OVHP-LED

2'x4'

2' x 4' Architectural Shallow Plenum Recessed LED Troffer



**EASY 3 COLORS
SELECTOR**
3500K • 4000K • 5000K



NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
5000	5288	40 W
4000	4434	33 W
3000	3256	25 W

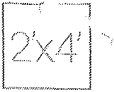
Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

FEATURES

A combination of stylish design and shallow profile, coupled with innovative LED technology to deliver soft, glare-free illumination, resulting in improved visual comfort and uniform appearance. The enhancement of the volumetric effect provides increased brightness, with an aesthetically pleasing appearance and contemporary design. The energy saving features and optical performance create the ideal choice for educational, medical, office and retail spaces.

LUMENS	3000L/4000L/5000L
CCT & DYNAMIC PLATFORMS	35K/40K/50K
CRI	85+
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	2'x2', 2'x4'
MOUNTING	Recessed
DIMMING & CONTROL	0-10V Flicker Free 10% Dimming Standard (DIM10)
EMERGENCY	10W - Up to 1000L output (Bodine BSL310) 20W - Up to 2000L output (Bodine BSL20)
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 can be removed, allowing easy access to LED boards and driver compartment, locking into place for secure closure of the luminaire. LED engines and drivers are removable and upgradable even after luminaire installation. Luminaire can be regularly and safely wiped down to ensure optimal performance.

OPTICAL SYSTEM

The LED light engine is secured to the body of the luminaire, with the body acting as a heat sink. A proprietary design of the lens results in zero pixilation, regardless of the viewing angle, with LEDs placed to promote a uniform appearance. The result is even illumination across the space, from luminaire to luminaire.

CONSTRUCTION

Body is constructed of heavy-duty 20-gauge cold rolled steel, post-painted and engineered for maximum strength and extended life. All corners interlock to prevent aesthetic damage to the luminaire, with sides and corners uniformly turned in and hemmed to remove sharp edges for safe handling and easy installation. Luminaire is supplied with multiple wiring entrances for easy daisy chain of luminaires, to add power packs, whips, or other accessories in the field, or for continuous row mounting.

FINISH

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

MOUNTING

Luminaires accommodate lay-in ceilings, Slot T, and T-bar suspension systems for 5/8" and 3/8" ceiling thicknesses. Four corner tie points are standard for safety wire support when required, with built-in earthquake clips, standard. Luminaires may be available with flange kits, surface mounted kits, and other options.

OPTIONS

Luminaires can be shipped pre-installed with whips, modular wiring systems, daylight harvesting controls, occupancy sensors, and/or power packs for individual or room control applications.

DRIVER ELECTRICAL INFORMATION

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120/277V input.

DIMMING & DRIVER INFORMATION

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

WARRANTY

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

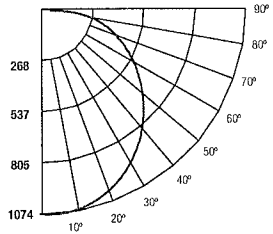
LISTINGS

c-UL-us - Listed for Feed Through Wiring.
Listed for DLC, California Title 24 compliant.

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

24	OVHP	LED							
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
24 - 2' X4'	OVHP LED Shallow Volumetric Troffer	LED	3000L/4000L/5000L	DIM10 - 0-10V Dimming	MVOLT	35K/40K/50K	85	0-EMG-LED-10W 0-EMG-LED-20W	24FK - 2'x4' Flange Kit FBF - Internal Fast Blow Fuse SBF - Internal Slow Blow Fuse RIS - Radio Interference Suppressor USA - Made in America Compliance FS-PPV2 - Fixture Sensor Power Pack FD-301 - Low Voltage Daylight Dimming Photosensor LMFC-011 - Digital Lighting Manager FS-205 - Low Voltage Pir Fixture Integrated Occupancy Sensor

*FD-301 & FS-205 require FS-PPV2- Power Pack

24-OVHP-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K(3000L)
TEST NO.: EL09012001
INPUT WATTS: 25.2 LUMENS: 3256 CRI: 85 EFFICACY: 129 CCT: 3500K
SPACING CRITERIA: 1.38
Candle Power Distribution (Candelas)

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	390.63	12	12
0-30	828.87	25.5	25.5
0-40	1360.82	41.8	41.8
0-60	2429.67	74.6	74.6
0-80	3122.78	95.9	95.9
0-90	3229.23	99.2	99.2

Luminance (Average candela/M²)

Angle In Degrees	Average		
	0°	45°	90°
45	1285	1284	1383
55	1221	1244	1393
65	1146	1228	1447
75	996	1216	1623
85	795	1088	1893

Lumens Per Zone

Zone	Lumens
0-10	101.21
10-20	289.42
20-30	438.24
30-40	531.95
40-50	555.81
50-60	513.05
60-70	415.38
70-80	277.73
80-90	106.45

Candela Tabulation

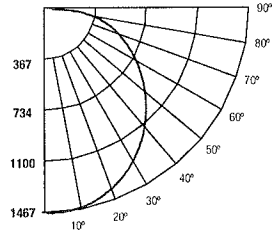
Ω	0	5	15	25	35	45	55	65	75	85	90
0	1070.376										
5	1060.85										
15	1015.12										
25	931.89										
35	816.12										
45	676.15										
55	520.88										
65	360.19										
75	191.78										
85	51.56										
90	2.74										

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

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%	50%	30%	10%	0%		
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99					
1	108	102	98	94	94	105	100	96	92	96	92	89	92	89	86	88	85	83	81					
2	97	89	81	75	75	95	87	80	74	83	77	73	80	75	71	76	72	69	67					
3	89	77	69	62	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56					
4	81	68	59	52	52	79	67	59	52	64	57	51	62	55	50	60	54	50	47					
5	74	61	52	45	45	72	60	51	45	58	50	44	55	49	43	54	48	43	41					
6	69	55	46	39	39	67	54	45	39	52	44	38	50	43	38	48	42	38	35					
7	64	50	41	34	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31					
8	59	45	37	31	31	57	45	36	31	43	36	30	42	35	30	41	34	30	28					
9	55	42	33	28	28	54	41	33	27	40	32	27	39	32	27	37	31	27	25					
10	52	38	30	25	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23					

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

24-OVHP-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K(4000L)
TEST NO.: EL09012002
INPUT WATTS: 33.9 LUMENS: 4434 CRI: 85 EFFICACY: 131 CCT: 3500K
SPACING CRITERIA: 1.38
Candle Power Distribution (Candelas)

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1754	1751	1891
0-30	1664	1696	1906
0-40	1542	1650	1981
0-60	1359	1656	2194
0-80	1084	1468	2627
0-90	4397.38	99.2	99.2

Luminance (Average candela/M²)

Angle In Degrees	Average		
	0°	45°	90°
45	138.07	2090	2262
55	395.04	2023	2280
65	597.89	1967	2370
75	721.15	1963	2627
85	753.37	1741	3165

Lumens Per Zone

Zone	Lumens
0-10	138.07
10-20	395.04
20-30	597.89
30-40	721.15
40-50	753.37
50-60	700.23
60-70	566.54
70-80	378.74
80-90	146.35

Candela Tabulation

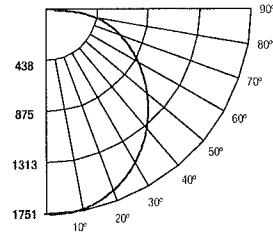
Ω	0	5	15	25	35	45	55	65	75	85	90
0	1460.178										
5	1447.21										
15	1385.51										
25	1270.98										
35	1113.7										
45	922.67										
55	710.13										
65	484.72										
75	261.62										
85	70.3										
90	3.72										

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

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%	50%	30%	10%	0%		
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99					
1	108	102	98	94	94	105	100	96	92	96	92	89	92	89	86	88	85	83	81					
2	97	89	81	75	75	95	87	80	74	83	77	72	79	75	71	76	72	69	67					
3	89	77	69	62	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56					
4	81	68	59	52	52	79	67	59	52	64	57	51	62	55	50	60	54	50	47					
5	74	61	52	45	45	72	60	51	45	58	50	44	55	49	43	54	48	43	41					
6	69	55	46	39	39	67	54	45	39	52	44	38	50	43	38	48	42	38	35					
7	64	50	41	34	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31					
8	59	45	37	31	31	57	45	36	31	43	36	30	42	35	30	41	34	30	28					
9	55	42	33	28	28	54	41	33	27	40	32	27	39	32	27	37	31	27	25					
10	52	38	30	25	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23					

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

24-OVHP-LED-3000L-4000L-5000L-DIM10-MVOLT-35K-40K-50K(5000L)
TEST NO.: EL09012003
INPUT WATTS: 40.3 LUMENS: 5288 CRI: 85 EFFICACY: 131 CCT: 3500K
SPACING CRITERIA: 1.38
Candle Power Distribution (Candelas)

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	636.77	12	12
0-30	1350.93	25.5	25.5
0-40	2212.2	41.8	41.8
0-60	3942.85	74.6	74.6
0-80	5070.28	95.9	95.9
0-90	5244.54	99.2	99.2

Luminance (Average candela/M²)

Angle In Degrees	Average		
	0°	45°	90°
45	2095	2090	2262
55	1988	2023	2280
65	1841	1967	2370
75	1623	1963	2627
85	1293	1741	3165

Lumens Per Zone

Zone	Lumens
0-10	164.92
10-20	471.85
20-30	714.16
30-40	861.27
40-50	898.67
50-60	831.98
60-70	676.23
70-80	451.2
80-90	174.26

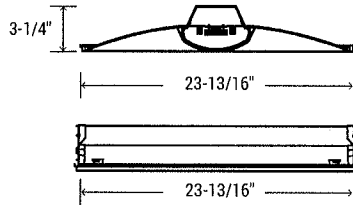
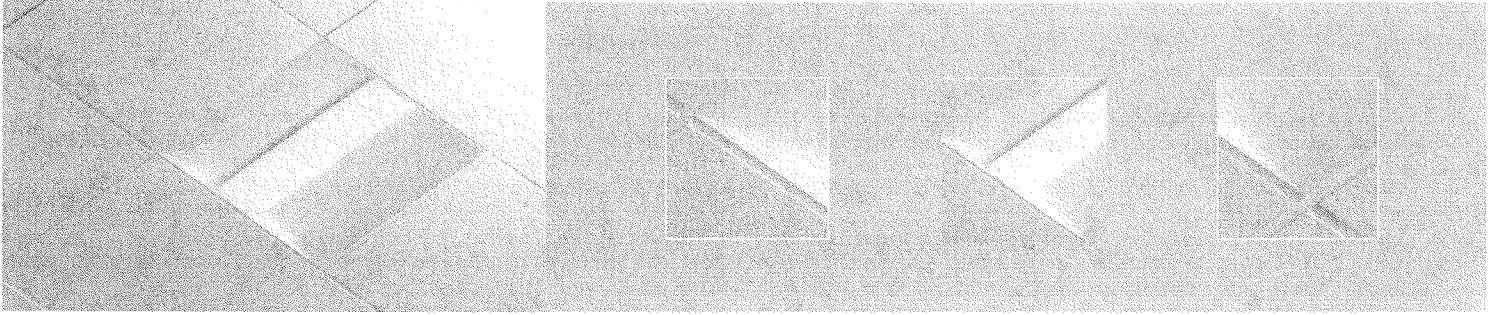
Candela Tabulation

Ω	0	5	15	25	35	45	55	65	75	85	90
0	1744.223										
5	1728.5										
15	1654.79										
25	1518.4										
35	1329.87										
45	1102.09										
55	848.41										
65	578.89										
75	312.45										
85	83.86										
90	4.36										

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%																	



FEATURES

A combination of stylish design and shallow profile, coupled with innovative LED technology delivers soft, glare-free illumination, resulting in improved visual comfort and uniform appearance. The enhancement of the volumetric effect provides increased brightness, with an aesthetically pleasing appearance and contemporary design. The energy saving features and optical performance create the ideal choice for educational, medical, office and retail spaces.

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
6000	6306	54 W
5000	5015	45 W
4000	3862	34 W
3400	3771	32 W
2400	2795	24 W

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

LUMENS	2400, 3400, 4000, 5000, 6000
CCT & DYNAMIC PLATFORMS	30K, 35K, 40K, 50K, Tunable White, Dims to Warm, RGB + White
CRI	85+
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	2'x2', 2'x4', 1'x4'
MOUNTING	Recessed
DIMMING & CONTROL	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, LUTFTB, LUT2W, DIMST, ELD010.1, ELD0DMX.1, DALI.1
EMERGENCY	10W - Up to 1000L output (Bodine BSL310) 20W - Up to 2000L output (Bodine BSL20)
LIFETIME	L70 at 116,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



MAINTENANCE

The center acrylic diffuser can be removed, allowing easy access to LED boards and driver compartment, locking into place for secure closure of the luminaire. LED engines and drivers are removable and upgradable even after luminaire installation. Luminaire can be regularly and safely wiped down to ensure optimal performance.

OPTICAL SYSTEM

The LED light engine is secured to the body of the luminaire, with the body acting as a heat sink. A proprietary design of the lens results in zero pixilation, regardless of the viewing angle, with LEDs placed to promote a uniform appearance. The result is even illumination across the space, from luminaire to luminaire.

CONSTRUCTION

Body is constructed of heavy-duty 20-gauge cold rolled steel, post-painted and engineered for maximum strength and extended life. All corners interlock to prevent aesthetic damage to the luminaire, with sides and corners uniformly turned in and hemmed to remove sharp edges for safe handling and easy installation. Luminaire is supplied with multiple wiring entrances for easy daisy chain of luminaires, to add power packs, whips, or other accessories in the field, or for continuous row mounting.

FINISH

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

MOUNTING

Luminaires accommodate lay-in ceilings, Slot T, and T-bar suspension systems for 5/8" and 3/8" ceiling thicknesses. Four corner tie points are standard for safety wire support when required, with built-in earthquake clips, standard. Luminaires may be available with flange kits, surface mounted kits, and other options.

OPTIONS

Luminaires can be shipped pre-installed with whips, modular wiring systems, daylight harvesting controls, occupancy sensors, and/or power packs for individual or room control applications.

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, 277 or 347V.

LUT2W - Lutron LTEA2W Hi-Lume 1%. 2-wire LED Driver Forward Phase Control, 1% dimming in 120V only. Available on all luminaires up to 40 watts.

LUTH - Lutron LDE1 Hi-Lume Eco System. 1% dimming with Soft in Fade to Black dimming technology.

ELDO10.1 - EldoLED SoloDrive 0-10V. Dimming down to 0.1%. Available on all luminaires up to 100 watts.

DALI - DALI DT6, DT8 dimming down to 1%. Available on all luminaires up to 100 watts.

ELDODMX - EldoLED PowerDrive dimming down to 0.1%. Available on all luminaires up to 100 watts.


Please see EldoLED website for wiring diagrams and a list of compatible DMX and DALI control systems.


DIMST - Step Dimming


WARRANTY

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

LED DYNAMIC PLATFORM OPTIONS

 Tunable White with Smart White Technology utilizing the Lumenetix Platform allows you to color tune the luminaire via various controls. Create the perfect environment for the desired use of the space, while maintaining a CRI of 90+ across the tunable range of 8000 to 1650K. (Click here for more details)

 Dims to Warm with Smart Dimming Technology. At 100% full brightness the luminaire is at 3000K. When dimmed to 1%, the light transitions to 1800K, creating a warm ambiance within the space. (Click here for more details)

 RGB+White with Smart Hue Technology provides full color mixing of RGB and white colors. Utilizing the Lumenetix Platform allows you to choose from unlimited RGB color options, via various controls. Ideal for Circadian Rhythm applications or to create the perfect human centric environment. (Click here for more details)

LISTINGS

c-UL-us - Listed for Feed Through Wiring.
Listed for DLC, California Title 24 compliant.

Example: **22-OVHP-LED-4000L-DIM10-MVOLT-30K-85**

22	OVHP	LED							
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
22 - 2' X 2'	OVHP - LED Shallow Volumetric Troffer	LED	2400L - 2400 lumens 3400L - 3400 lumens 4000L - 4000 lumens 5000L - 5000 lumens 6000L - 6000 lumens	DIM10 - 0-10V Dimming DIMST - Step Dimming LUTH - Lutron HiLume LUT2W - Lutron 2Wire LUTFB - Lutron Fade to Black ELDO10.1 - EldoLED 0-10V ELDODALI - EldoLED DALI ELDODMX - EldoLED DMX	MVOLT 347* <small>*Consult factory for details</small>	30K 35K 40K 50K	85	O-EMG-LED-10W O-EMG-LED-20W	22FK - 2'x2' Flange Kit FBF - Internal Fast Blow Fuse SBF - Internal Slow Blow Fuse RIS - Radio Interference Suppressor USA - Made in America Compliance 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 OSM3D-V1W - Line Voltage Microwave Sensor OSM3D-DDW-20 - HF Microwave Sensor 20% Dim OSM3D-DDW-50 - HF Microwave Sensor 50% Dim



22-OVHP-LED-3400L-DIM10-MVOLT-40K-85

INPUT WATTS: 30.4

LUMENS: 3771

CRI: 85

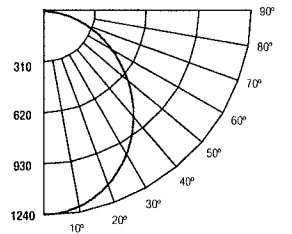
EFFICACY: 124

CCT: 4000K

TEST NO.: EL011978

SPACING CRITERIA: 1.38

Candle Power Distribution (Candelas)



Cone of Light			
	2	5.5	7
4	77.2	10.9	14.1
6	34.3	16.4	21.1
8	19.3	21.9	28.1
10	12.4	27.4	35.2
12	8.58	32.8	42.2

IF E-Plane, 90° Plane; (FC) Initial Footcandle at Nadir; (FF) Beam Feet Spread; (FT) Beam Feet Diameter

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	450.73	12.00	12.00
0-30	955.93	25.30	25.30
0-40	1564.83	41.50	41.50
0-60	2796.28	74.20	74.20
0-80	3606.3	95.60	95.60
0-90	3735.58	99.10	99.10

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	2958	3029	3212
55	2790	2940	3239
65	2589	2875	3352
75	2320	2897	3687
85	2028	2891	3972

Lumens Per Zone

Zone	Lumens
0-10	116.78
10-20	333.95
20-30	505.20
30-40	608.90
40-50	639.32
50-60	592.14
60-70	482.55
70-80	327.47
80-90	129.28

Candela Tabulation

Ω	
0	1235.49
5	1233.53
15	1181.53
25	1082.58
35	944.02
45	777.96
55	595.22
65	406.92
75	223.30
85	65.74
90	7.06

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%	50%	30%	10%	50%	30%	10%	0%			
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	101	101	101	101	99	99	99	99	99	99	99	99
1	108	102	98	93	105	100	96	92	95	92	89	89	91	88	86	86	88	85	83	83	81	81	81	81	81	81	81	81
2	97	88	81	75	94	86	80	74	83	77	72	72	79	75	70	76	72	69	66	66	66	66	66	66	66	66	66	66
3	88	77	69	62	86	76	68	61	72	66	60	60	70	64	59	67	62	58	55	55	55	55	55	55	55	55	55	55
4	81	68	59	52	78	67	58	52	64	57	51	51	62	55	50	59	54	49	47	47	47	47	47	47	47	47	47	47
5	74	61	52	45	73	60	51	44	57	50	44	44	55	49	43	53	47	43	40	40	40	40	40	40	40	40	40	40
6	68	55	46	39	66	54	45	39	52	44	38	38	50	43	38	48	42	37	35	35	35	35	35	35	35	35	35	35
7	63	50	41	34	62	49	40	34	47	39	34	34	45	39	33	44	38	33	31	31	31	31	31	31	31	31	31	31
8	59	45	37	31	57	44	36	30	43	36	30	30	42	35	30	40	34	30	28	28	28	28	28	28	28	28	28	28
9	55	41	33	27	54	41	33	27	40	32	27	27	38	32	27	37	31	27	25	25	25	25	25	25	25	25	25	25
10	52	38	30	25	50	38	30	25	37	30	25	25	36	29	24	35	29	24	22	22	22	22	22	22	22	22	22	22

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

22-OVHP-LED-4000L-DIM10-MVOLT-40K-90

INPUT WATTS: 33.3

LUMENS: 4089

CRI: 90

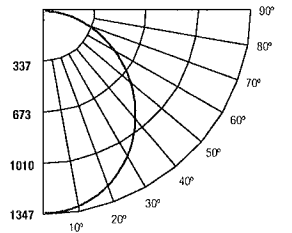
EFFICACY: 123

CCT: 4000K

TEST NO.: EL011974

SPACING CRITERIA: 1.38

Candle Power Distribution (Candelas)



Cone of Light			
	2	7.1	5.5
4	34	14.2	10.9
6	37.3	21.3	16.4
8	21	28.4	21.9
10	13.4	35.5	27.3
12	9.33	42.5	32.8

IF E-Plane, 90° Plane; (FC) Initial Footcandle at Nadir; (FF) Beam Feet Spread; (FT) Beam Feet Diameter

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	490.05	12.00	12.00
0-30	1039.17	25.40	25.40
0-40	1700.65	41.60	41.60
0-60	3035.85	74.20	74.20
0-80	3913.24	95.70	95.70
0-90	4050.96	99.10	99.10

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	3489	3423	3213
55	3524	3372	3035
65	3679	3389	2810
75	4109	3630	2531
85	4739	4822	2233

Lumens Per Zone

Zone	Lumens
0-10	126.98
10-20	363.07
20-30	549.12
30-40	661.48
40-50	692.24
50-60	642.95
60-70	523.30
70-80	354.09
80-90	137.72

Candela Tabulation

Ω	
0	1343.331
5	1335.450
15	1285.480
25	1194.880
35	1069.150
45	917.550
55	751.770
65	578.380
75	395.620
85	153.630
90	3.240

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%	50%	30%	10%	50%	30%	10%	0%			
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	101	101	101	101	99	99	99	99	99	99	99	99
1	108	102	98	93	105	100	96	92	95	92	89	89	91	88	86	86	88	85	83	83	81	81	81	81	81	81	81	81
2	97	88	81	75	94	86	80	74	83	77	72	72	79	75	70	76	72	69	66	66	66	66	66	66	66	66	66	66
3	88	77	69	62	86	76	68	61	73	66	60	60	70	64	59	67	62	58	55	55	55	55	55	55	55	55	55	55
4	81	68	59	52	78	67	58	52	64	57	51	51	62	55	50	59	54	49	47	47	47	47	47	47	47	47	47	47
5	74	61	52	45	73	60	51	44	57	50	44	44	55	49	43	53	47	43	40	40	40	40	40	40	40	40	40	40
6	68	55	46	39	66	54	45	39	52	44	38	38	50	43	38	48	42	37	35	35	35	35	35	35	35	35	35	35
7	63	50	41	34	62	49	40	34	47	39	34	34	45	39	33	44	38	33	31	31	31	31	31	31	31	31	31	31
8	59	45	37	31	57	44	36	30	43	36	30	30	42	35	30	40	34	30	28	28	28	28	28	28	28	28	28	28
9	55	41	33	27	54	41	33	27	40	32	27	27	38	32	27	37	31	27	25	25	25	25	25	25	25	25	25	25
10	52	38	30	25	50	38	30	25	37	30	25	25	36	29	24	35	29	24	22	22	22	22	22	22	22	22	22	22

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

22-OVHP-LED-5000L-DIM10-MVOLT-40K-85

INPUT WATTS: 41

LUMENS: 5015

CRI: 85

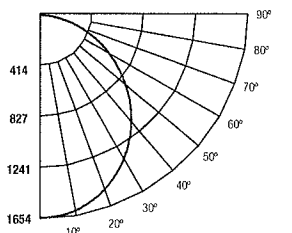
EFFICACY: 122

CCT: 4000K

TEST NO.: EL011973

SPACING CRITERIA: 1.38

Candle Power Distribution (Candelas)



Cone of Light			
	2	4.12	5.5
4	103	11	14.1
6	45.8	16.5	21.1
8	25.8	22	28.2
10	16.5	27.5	35.2
12	11.5	33	42.2

IF E-Plane, 90° Plane; (FC) Initial Footcandle at Nadir; (FF) Beam Feet Spread; (FT) Beam Feet Diameter

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

<

22-OVHP-LED-6000L-DIM10-MVOLT-40K-90

TEST NO.: **EL011972**

INPUT WATTS: **53.3**

LUMENS: **6306**

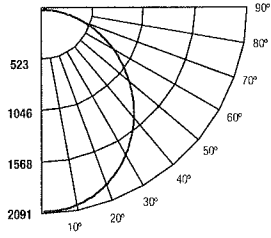
CRI: **90**

EFFICACY: **118**

CCT: **4000K**

SPACING CRITERIA: **1.38**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	757.48	12.00	12.00
0-30	1606.22	25.50	25.50
0-40	2628.61	41.70	41.70
0-60	4680.22	74.20	74.20
0-80	6033.14	95.70	95.70
0-90	6246.27	99.10	99.10

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	5374	5327	4976
55	5424	5275	4708
65	5665	5346	4378
75	6285	5750	3950
85	7151	7796	3600

Lumens Per Zone

Zone	Lumens
0-10	196.28
10-20	561.21
20-30	848.73
30-40	1022.4
40-50	1065.92
50-60	985.69
60-70	806.92
70-80	546.00
80-90	213.12

Candela Tabulation

θ	Candela
0	2076.268
5	2064.580
15	1986.100
25	1845.060
35	1649.290
45	1413.450
55	1157.300
65	890.530
75	605.040
85	231.810
90	4.920

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

Cone of Light			
	2	6.9	5.5
2	519	6.9	5.5
4	130	13.9	11
6	57.7	20.8	16.4
8	32.4	27.8	21.9
10	20.8	34.7	27.4
12	14.4	41.7	32.9

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%	50%	30%	10%	50%	30%	10%				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99										
1	108	102	98	93	105	100	96	92	95	92	89	91	88	85	88	85	83	81										
2	97	99	81	75	95	87	80	74	83	77	72	79	75	70	76	72	69	66										
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	55										
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	59	54	49	47										
5	74	61	52	45	72	60	51	45	57	50	44	55	49	43	53	47	43	41										
6	68	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35										
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31										
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	40	34	30	28										
9	55	42	33	28	54	41	33	27	40	32	27	38	32	27	37	31	27	25										
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23										

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

RC - Ceiling Cavity Reflectance

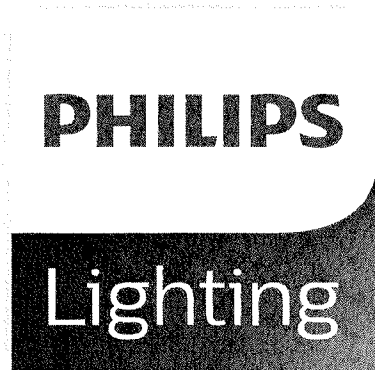
RW - Wall Reflectance

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	<input type="checkbox"/> LEDRU LED Relay Zone Controller 0-10V ¹	<input type="checkbox"/> FCJS-0-10 Lutron Vive 0-10V Individual Control Models ¹⁴	<input type="checkbox"/> CU-4E-FMH Fixture Mount Control Unit ¹⁵	<input type="checkbox"/> ZL027 -NOW Intellect Power Control Module ¹⁶	<input type="checkbox"/> EN-WCM2-ZB-DR Wireless Control Module ¹⁷	<input type="checkbox"/> XITANIUM SR LED DRIVER The Philips Advance Xitanium SR LED driver ¹⁸	<input type="checkbox"/> LMFC-011 ON/OFF/0-10V dimming fixture controller ¹⁹
	<input type="checkbox"/> LEDDU LED Zone Controller 0-10V ¹	<input type="checkbox"/> FCJS-ECO Lutron Vive Eco-system Individual Control Models ¹⁴		<input type="checkbox"/> ZL027 -DLE Intellect Power Control Module ¹⁶	<input type="checkbox"/> EN-ALC-ZB-BK-DR Wireless Area Lighting Control Module ¹⁷		<input type="checkbox"/> FS-PP-V2 FS-PP Fixture Integrated Sensor Power Pack ¹⁹
INTEGRATED OCCUPANCY & DAYLIGHT SENSOR	N/A	<input type="checkbox"/> DFCSJ-OEM-OCC Clear Connect (RF) and Occupancy/ Daylight Sensing ²	<input type="checkbox"/> SU-5E-IoT IoT Node Micro Sensor <input type="checkbox"/> SU-5E-CL Connected Micro Sensor <input type="checkbox"/> SU-5E-IL Independent Micro Sensor	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System ²	<input type="checkbox"/> EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor	<input type="checkbox"/> SNS200 SNS200 for grouping ²	<input type="checkbox"/> FD-301 Fixture integrated Daylight Dimming Sensor ²
			<input type="checkbox"/> SU-5S-H(IoT/CL/IL) Surface Mount Sensor (Must be Specified with CU- 4E-FMH Control Unit)²	<input type="checkbox"/> ZL00J-DOW Intellect Intelligent Fixture Control System ²	<input type="checkbox"/> ZBHA- CLM-DIM-ENC Connected Lighting Module DIM ²	<input type="checkbox"/> SNS300 SNS300 for networks ²	<input type="checkbox"/> FS-205 Fixture integrated passive infrared occupancy sensor ²
*WIRELESS OCCUPANCY SENSOR	<input type="checkbox"/> EOSCU-W-EO Occupancy Sensor - Ceiling Mounted ³	<input type="checkbox"/> LRF2-OCR2B-P-WH Ceiling mount 360° ,occupancy/vacancy sensor ³	N/A	N/A	<input type="checkbox"/> EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³	N/A	<input type="checkbox"/> LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor ³
*WIRELESS DAYLIGHT SENSOR	<input type="checkbox"/> ELLSU-W-EO Light Level Sensor - Ceiling Mounted ³	<input type="checkbox"/> LRF2-DCRB-WH Ceiling-mount daylight sensor ³	N/A	N/A	<input type="checkbox"/> EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³	N/A	<input type="checkbox"/> LMDS-400 Single zone switching and dimming digital photosensor ³
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	N/A	N/A	<input type="checkbox"/> SU-5E-IoT IoT Node Micro Sensor <input type="checkbox"/> SU-5E-CL Connected Micro Sensor <input type="checkbox"/> SU-5E-IL Independent Micro Sensor <input type="checkbox"/> SU-5S-H(IoT/CL/IL) Surface Mount Sensor (Must be specified with CU- 4E-FMH Control Unit)³	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System <input type="checkbox"/> ZL00J-DOW Intellect Intelligent Fixture Control System (Must be specified with ZL027-NOW and ZL00J- DOW Control unit)³	<input type="checkbox"/> EN-CLM- PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor <input type="checkbox"/> 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	<input type="checkbox"/> SNS200-CMP SNS-200 for Grouping ³	N/A
ACCESSORIES	N/A	N/A	<input type="checkbox"/> TMC-SU-5E Tile Mount Carrier <input type="checkbox"/> CBL-5E-CU4-30N 30 Inch Sensor cable for CU-4 and IoT Ready <input type="checkbox"/> 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 Intellect 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 compatible with philips field and wireless switch	9- Luminaire will be compatible with DLM Room control system LMPB-100. Sensors must be orderd through Legrand.



LED PAR20

5.5PAR20/LED/F25/940/DIM/G/T20 6/1FB

Philips is driving the switch to energy-efficient solutions. Upgrade your track and accent lights with our small diameter reflectors for instant energy savings and unbeatable quality. Available in both Glass and Plastic casings, Philips LED Par20s are the ideal replacement for halogen.

Product data

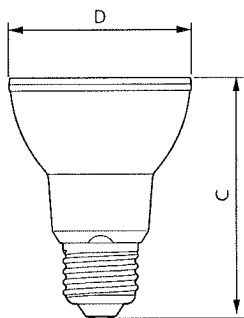
General Information	
Base	E26 [Single Contact Medium Screw]
EU RoHS compliant	Yes
Nominal Lifetime (Nom)	25000 h
Switching Cycle	25000X
Light Technical	
Color Code	940 [CCT of 4000K]
Beam Angle (Nom)	25 °
Initial lumen (Nom)	500 lm
Luminous Intensity (Nom)	1500 cd
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	90.00 lm/W
Color Consistency	<4
Color Rendering Index (Nom)	90
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Input Frequency	50 to 60 Hz
Power (Rated) (Nom)	5.5 W
Lamp Current (Nom)	54 mA
Wattage Equivalent	50 W

Starting Time (Nom)	0.5 s
Warm Up Time to 60% Light (Nom)	0.5 s
Power Factor (Nom)	0.9
Voltage (Nom)	120 V
Temperature	
T-Case Maximum (Nom)	75 °C
Controls and Dimming	
Dimmable	Only with specific dimmers
Mechanical and Housing	
Bulb Shape	PAR20 [PAR 2.5 inch]
Approval and Application	
Suitable For Accent Lighting	Yes
Product Data	
Order product name	5.5PAR20/LED/F25/940/DIM/G/T20 6/1FB
EAN/UPC - Product	046677568078
Order code	568071
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	6

LED PAR20

Material Nr. (12NC)	929003026204
Net Weight (Piece)	0.120 kg

Dimensional drawing

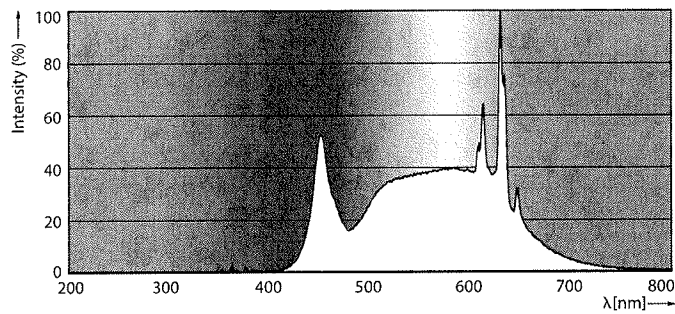


5.5PAR20/LED/F25/940/DIM/G/T20 6/1FB

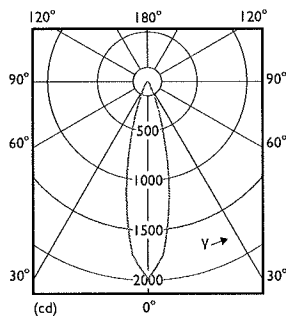
Product

5.5PAR20/LED/F25/940/DIM/G/T20 6/1FB

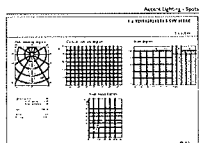
Photometric data



LEDspots N DIM 5,5W PAR20 E26 940 25D-POC



LEDspots N DIM 5,5W PAR20 E26 940 25D-LDD



LEDspots N DIM 5,5W PAR20 E26 940 25D 1-ADL