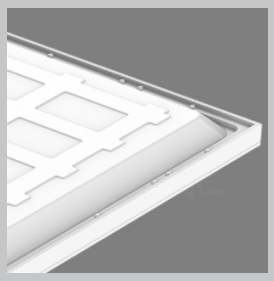
ORACLE LIGHTING
By Elite Lighting

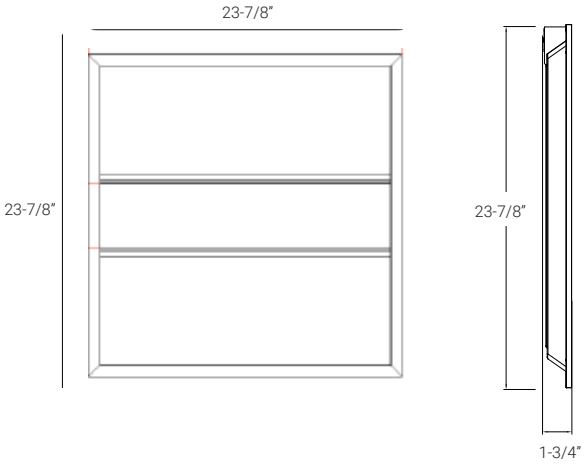
22-OD1V-SHAL-LED 2'x2'

2' x 2' Architectural Volumetric Shallow Recessed LED Troffer



MULTILUMEN SELECTOR

EASY 4 COLORS
SELECCTOR
3000K • 3500K • 4000K • 5000K



NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
5000	4480	40 W
4000	3360	30 W
3000	2801	25 W

Based on 3000K, 85+ CRI. Actual wattage may vary +/- 5%

FEATURES

At 1-3/4" depth, the OD1V-SHAL-LED is a grid troffer specifically designed for extremely shallow plenums. The acrylic micro-optic lens assures uniform illumination and meets UGR<19 standards. The glare-free illumination, high efficacy and sustainability of this luminaire makes it ideal for corporate offices, classrooms, healthcare, commercial and retail applications.

LUMENS	3000/4000/5000
CCT & DYNAMIC PLATFORMS	30K/35K/40K/50K
CRI	85+(standard),
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),
EMERGENCY	10W - Up to 1000L output 20W - Up to 2000L output EMG-LED-G2-10W-SDT - Self Diagnostic (Consult Factory) EMG-LED-G2-20W-SDT - Self Diagnostic (Consult Factory)
LIFETIME	L70 at 100,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

DLC QPL LISTED · c UL us LISTED · PROUDLY ASSEMBLED in AMERICA · QUICKSHIP CONSULT FACTORY · 5 YEARS LIMITED WARRANTY · UGR<19

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MAINTENANCE
Drivers are accessible from the top of the housing. 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. the Acrylic micro-optics 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. Dia cast aluminum face plate with welded and ground mitered corners, tightly seals to the housing for optimal performance and aesthetics. the 1-7/8" overall height ideal for shallow plenums. 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.

DRIVER ELECTRICAL INFORMATION
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.

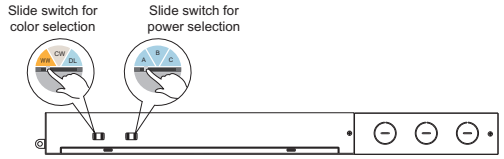
DIMMING & DRIVER INFORMATION
DIM10 - Flicker Free 1% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277.

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

LED DYNAMIC PLATFORM OPTIONS

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

For the product with Slide Switch of CCT or power selection, please select the CCT or power needed before installation. (Ignore these steps if without the function)



Example: **22-OD1V-SHAL-LED-3000L/4000L/5000L-DIM10-MVOLT-30K/35K/40K/50K-85**

22	OD1V	LED								
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
22 - 2' X2'	**OD1V-SHAL**	**LED**	**3000L/4000L/5000L**	**DIM10** 0-10V Dimming	**MVOLT**	**30K/35K/40K/50K**	**85**	**O-EMG-LED-10W** **O-EMG-LED-20W** **O-EMG-LED-G2-10W-SDT** **O-EMG-LED-G2-20W-SDT** *Consult factory for details	**22FK** - 2'x2' Flange Kit **FBF** - Internal Fast Blow Fuse **SBF** - Internal Slow Blow Fuse **RIS** - Radio Interference Suppressor **USA** - Made in America Low **LMFC-011** - Digital Lighting Manager

ORACLE LIGHTING
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22-OD1V-SHAL-LED 2'x2'

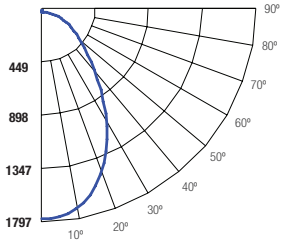
2' x 2' Architectural Volumetric Shallow Recessed LED Troffer

22-OD1V-SHAL-LED-3000L-DIM10-MVOLT-30K-85

TEST NO.: **EL1120231**

INPUT WATTS: **25** LUMENS: **2801** CRI: **85** EFFICACY: **112** CCT: **3000K** SPACING CRITERIA: **1.2**

Candle Power Distribution (Candelas)



Cone of Light			
2	449	2.9	4.2
4	112	5.8	8.4
6	49.9	8.6	12.6
8	28.1	11.5	16.8
10	18	14.4	21
12	12.5	17.3	25.2
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

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

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	2334	2625	3673
55	1870	2006	2772
65	1666	1719	2112
75	1536	1591	1839
85	1164	1268	1701

Lumens Per Zone

Zone	Lumens
0-10	168.81
10-20	467.95
20-30	653.55
30-40	685.39
40-50	583.17
50-60	429.08
60-70	291.16
70-80	172.81
80-90	54.07

Candela Tabulation

	0
0	1795.244
5	1786.300
15	1646.270
25	1339.070
35	949.400
45	613.870
55	399.060
65	261.820
75	147.910
85	37.720
90	1.970

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%	0%
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
	1	110	105	102	98	107	103	100	96	99	96	93	95	92	90	91	89	87	85
	2	101	94	87	82	98	92	86	81	88	83	79	85	81	77	82	78	76	73
	3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	73	69	66	64
	4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
	5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	51	49
	6	74	62	54	48	72	61	53	47	59	52	47	57	51	46	56	50	46	44
	7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	51	46	42	40
	8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
	9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
	10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

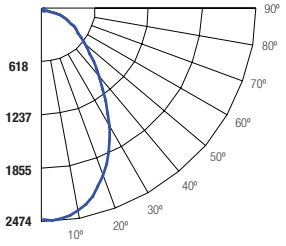
***RC** - Ceiling Cavity Reflectance* ***RW** - Wall Reflectance*

22-OD1V-SHAL-LED-4000L-DIM10-MVOLT-30K-85

TEST NO.: **EL1120261**

INPUT WATTS: **30** LUMENS: **3360** CRI: **85** EFFICACY: **112** CCT: **3000K** SPACING CRITERIA: **1.2**

Candle Power Distribution (Candelas)



Cone of Light			
2	566	2.9	4.2
4	141	5.7	8.4
6	62.9	8.6	12.6
8	35.4	11.5	16.8
10	22.6	14.3	21
12	15.7	17.2	25.2
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

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

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	3207	3749	5077
55	2555	2848	3846
65	2299	2411	2894
75	2110	2223	2558
85	1525	1769	2361

Lumens Per Zone

Zone	Lumens
0-10	231.93
10-20	643.01
20-30	898.17
30-40	940.97
40-50	798.65
50-60	588.38
60-70	399.09
70-80	237.38
80-90	73.56

Candela Tabulation

	0
0	2466.496
5	2459.182
15	2265.641
25	1838.743
35	1301.645
45	843.398
55	545.153
65	361.400
75	203.122
85	49.442
90	2.660

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%	0%
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
	1	110	105	102	98	107	103	100	97	99	96	93	95	92	90	91	89	87	85
	2	101	94	87	82	98	92	86	81	88	83	79	85	81	77	82	78	76	73
	3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	73	69	66	64
	4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56
	5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	51	49
	6	74	62	54	48	72	61	53	47	59	52	47	57	51	47	56	50	46	44
	7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	51	46	42	40
	8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
	9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
	10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

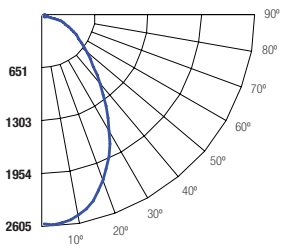
***RC** - Ceiling Cavity Reflectance* ***RW** - Wall Reflectance*

22-OD1V-SHAL-LED-5000L-DIM10-MVOLT-3K-85

TEST NO.: **EL1120136**

INPUT WATTS: **40** LUMENS: **4480** CRI: **85** EFFICACY: **111** CCT: **3000K** SPACING CRITERIA: **1.2**

Candle Power Distribution (Candelas)



Cone of Light			
2	648	2.9	4.2
4	162	5.7	8.4
6	72	8.6	12.6
8	40.5	11.4	16.8
10	25.9	14.3	21
12	18	17.2	25.2
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

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

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	3367	3933	5335
55	2688	2991	4044
65	2419	2512	3039
75	2220	2337	2688
85	1601	1859	2483

Lumens Per Zone

Zone	Lumens
0-10	243.64
10-20	675.50
20-30	943.64
30-40	988.48
40-50	837.16
50-60	617.14
60-70	418.12
70-80	249.16
80-90	77.18

Candela Tabulation

	0
0	2591.863
5	2590.170
15	2383.960
25	1934.210
35	1367.320
45	885.580
55	573.390
65	380.260
75	213.720
85	51.910
90	2.800

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%	0%
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
	1	110	106	102	98	107	103	100	97	99	96	93	95	93	90	91	89	88	85
	2	101	94	88	82	98	92	86	81	88	83	79	85	81	77	82	78	76	73
	3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	69	66	64
	4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56
	5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	51	49
	6	74	62	54	48	72	61	53	48	59	52	47	57	51	47	56	50	46	44
	7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	51	46	42	40
	8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
	9	61	48	41	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
	10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

***RC** - Ceiling Cavity Reflectance* ***RW** - Wall Reflectance*