

CALCULATED
L70
LIFETIME
65,000 HRS

2000 LUMENS	3000 LUMENS	4000 LUMENS
28 WATT	44 WATT	60 WATT

General LED illumination for health care facilities, educational institutions, airports, commercial offices, retail, and many other applications.

PRODUCT FEATURES:

- Twilite series proprietary light lock system prevents light leakage at both ends of lamp shield. Steel side reflectors intersect with housing to ensure seamless appearance
- Lamp shield pivots down for easy LED maintenance
- Post-painted with a 93% reflective white coat to improve fixture efficacy
- Lamp shield is 60% perforated white steel mesh, backed with high-transmission white acrylic diffuser for optimum light efficiency, maximum glare control and lamp image prevention
- Rated at 85+ CRI and available in multiple CCTs
- Life tested to ensure light output up to 65,000 hours of operation to L70
- Tested to LM-79 and LM-80 standards
- Dimmable down to 1% with compatible dimming systems

- 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
- Emergency battery back-up comes pre-installed on the fixture and emergency push button is installed on the fixture for easy access and aesthetics.
- LED light engine is completely removable and upgradable
- 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 - Diffuser is composed of a two-part overlay system that includes a thin frosted acrylic sheet and a steel perforated lamp shield. The system works together to gather the light scattered by the LED chips and delivers uniform voluminous light into any environment. The lens can be easily removed without the use of tools in case maintenance is required.

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.

PERFORMANCE - The OD-LED lay-in fixtures meet high efficacy codes in compliance with more than 75 LPW. The OD-LED powered lighting technologies offer a higher return on investment than any other lighting technology. The light engines found in the OD-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 70% of initial lumens at 65,000 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. LED engines are removable and upgradable even after fixture installation. Fixture can be regularly and safely wiped down to ensure optimal fixture performance.

DIMMING - The OD-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** - EldoLED SoloDrive 0-10V. Dimming down to .1%. available on all fixtures up to 100 Watts. **ELD0DALI** - EldoLED PowerDrive 0-10V. Dimming down to .1%. available on all fixtures up to 100 Watts. **ELD0DMX** - EldoLED PowerDrive Dimming down to .1%. available on all fixtures up to 100 Watts. Please see EldoLED 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: 22-OD-LED-2000L-DIM10-MVOLT-30K-85

FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
22 - 2' X 2'	OD-Oracle Direct/Indirect Series	LED	2000L - (2000 lumens) 3000L - (3000 lumens) 4000L - (4000 lumens)	DIM10 - 0-10V Dimming DIMST - Step Dimming LUTH - Lutron Hilume LUT2W - Lutron 2Wire LUTFTB - Lutron Fade to Black ELD010.1 - EldoLED 0-10V ELD0DALI - EldoLED DALI ELD0DMX - EldoLED DMX	MVOLT 347* * Consult factory for details	30K - (3000K) 35K - (3500K) 40K - (4000K) 50K - (5000K)	85	0-EMG-LED	22FK - Flange Kit for 2' X 2' Fixture FBF - Internal Fast Blow Fuse SBF - Internal Slow-Blow Fuse RIS - Radio Interference Suppressor DCR - Dust Cover USA - Made in America Compliance

PHOTOMETRY DATA

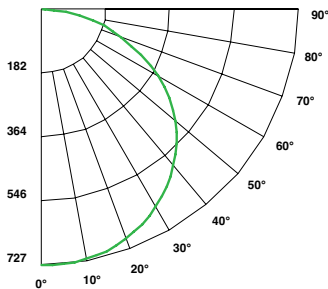
22-0D-LED-2000L-DIM10-120-40K

WATTAGE: **28W**

LUMENS: **1963**

TOTAL LUMINAIRE EFFICACY: **69**

Candle Power Distribution (Candelas)



Spacing Criteria

0-180 : **1.16**
90-270 : **1.34**
Diagonal : **1.36**

EFFICACY: 69 LM/W

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	555.29	N.A.	28.30
0-40°	903.06	N.A.	46.00
0-60°	1573.49	N.A.	80.20
0-90°	1962.87	N.A.	100.00
0-180°	1962.87	N.A.	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	739	884	1028
55°	620	838	1037
65°	468	755	989
75°	326	585	945
85°	168	295	548

Candela Tabulation

	0	45	90
0	725.991	725.991	725.991
5	719.120	723.610	727.130
15	675.370	694.040	711.850
25	602.170	637.750	674.440
35	507.380	560.510	616.030
45	388.970	465.240	540.720
55	264.570	357.560	442.380
65	147.210	237.370	310.970
75	62.780	112.600	182.040
85	10.880	19.120	35.550
90	3.110	2.510	1.280

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC	70%	80%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

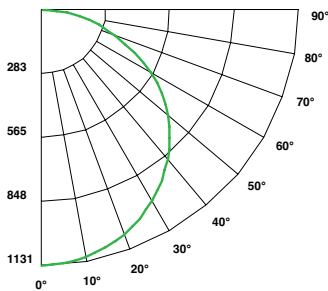
22-0D-LED-3000L-DIM10-120-40K

WATTAGE: **44W**

LUMENS: **3059**

TOTAL LUMINAIRE EFFICACY: **69**

Candle Power Distribution (Candelas)



Spacing Criteria

0-180 : **1.14**
90-270 : **1.30**
Diagonal : **1.36**

EFFICACY: 69 LM/W

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	863.55	N.A.	28.20
0-40°	1406.02	N.A.	46.00
0-60°	2452.73	N.A.	80.20
0-90°	3059.45	N.A.	100.00
0-180°	3059.45	N.A.	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	1128	1312	1519
55°	943	1222	1517
65°	696	1097	1444
75°	474	818	1363
85°	312	486	990

Candela Tabulation

	0	45	90
0	1128.785	1128.785	1128.785
5	1114.000	1117.680	1123.010
15	1040.680	1059.530	1087.100
25	924.380	962.490	1017.820
35	773.390	835.390	920.750
45	593.390	690.120	798.820
55	402.380	521.440	647.390
65	218.670	344.950	453.830
75	91.180	157.440	262.490
85	20.200	31.490	64.200
90	4.500	3.360	5.630

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC	70%	80%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76
3	91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37
9	57	44	35	30	55	43	35	30	42	35	30	41	34	29	40	34
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

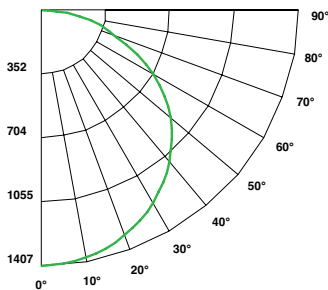
22-0D-LED-4000L-DIM10-120-40K

WATTAGE: **60W**

LUMENS: **3851**

TOTAL LUMINAIRE EFFICACY: **64**

Candle Power Distribution (Candelas)



Spacing Criteria

0-180 : **1.18**
90-270 : **1.30**
Diagonal : **1.36**

EFFICACY: 64 LM/W

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	1077.86	N.A.	28.00
0-40°	1755.04	N.A.	45.60
0-60°	3075.39	N.A.	79.90
0-90°	3851.43	N.A.	100.00
0-180°	3851.43	N.A.	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	1477	1697	1920
55°	1276	1602	1929
65°	966	1440	1835
75°	689	1114	1738
85°	490	754	1197

Candela Tabulation

	0	45	90
0	1406.716	1406.716	1406.716
5	1394.200	1396.773	1400.500
15	1312.206	1331.274	1357.356
25	1175.884	1217.758	1275.708
35	999.526	1067.524	1158.297
45	777.168	892.584	1010.058
55	544.383	683.371	823.231
65	303.796	452.844	576.849
75	132.657	214.431	334.645
85	31.741	48.909	77.584
90	6.877	4.788	5.785

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC	70%	80%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	76
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33
10	53	40	32	27	52	39	32	27	38	31	27	38	31	27	37	31

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

LED
2'X2'
0D

LED Recessed Direct/Indirect Luminaire