

Features

Dimmable
Flicker-Free
In-line Connection
Long Life
Instant On
RoHS Compliant
Lead Free
Mercury Free
No UV

ECOSENSE™



EcoSense Lighting Inc.

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(V. 7-2010)

EcoSpec™ Linear INT

EcoSense EcoSpec™ Linear INT is a powerful, versatile indoor linear white light fixture. Its flicker-free dimming capabilities make it suitable for all interior architectural, retail, exhibit, and display applications. Leveraging years of lighting experience, this robust, aluminum-frame fixture features powerful, energy efficient LEDs and precision constant-current circuits for long-life applications.

With smart power technology, EcoSpec Linear INT connects directly to AC power simplifying installation and minimizing costs. These cool to the touch fixtures quickly pay for themselves in energy savings and provide substantial savings over the 50,000 hour life of the lamp.

Specifications

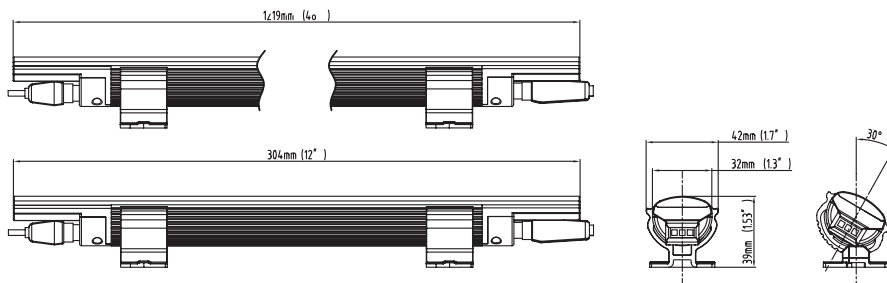
Lumen Output	
Warm White	250 lm (1ft) / 1000 lm (4ft)
Neutral White	290 lm (1ft) / 1160 lm (4ft)
Color Temperature	
Warm White	2700K
Warm White	3000K
Neutral White	3500K
Neutral White	4000K
Color Rendering Index	
Warm White	80
Neutral White	80
Rated Life	50,000 hours
Beam Angle	120° x 120°
Power Consumption	5.3 watts (1ft) / 21.2 watts (4ft)
Maximum Fixture Run Length	100' @ 120VAC
Operating Temperature	14°F to 104°F (-10°C to 40°C)
Operating Voltage	100-120VAC, 220-240VAC, 50-60Hz
Housing	Aluminum; Clear Polycarbonate Diffuser
Weight	6 oz/175g (1ft) 1.5 lbs./0.7kg (4ft) approx.
Dimensions	W 1.4" x H 1.5" x L 12"/48" (35.3 mm x 39 mm x 304 mm/1,219 mm)

Certifications (Pending)



Restriction of Hazardous Substances Directive (RoHS) implements EU Directive 2002/95 which bans placing electrical and hazardous equipment that contains more than agreed levels of hazardous substances on the EU market. For a list of these substances visit www.rohs.gov.uk.

Dimensions



www.ecosenselighting.com

DATE:

TYPE:

PROJECT:

FIRM :

EcoSpec™ Linear INT

DATE:	TYPE:
PROJECT:	
FIRM :	

Ordering Information

Choose the option that best suits your needs and write its corresponding code on the appropriate line to form the product code.

ES04-LC	-	-	-	-	120
MODEL	LENGTH	COLOR	VOLTAGE	OPTIC	
ES04-LC	12 - 1'-0" 48 - 4'-0"	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	120 - 100-120VAC 220 - 220-240VAC	120 - 120° x 120°	

** Order mounting and wiring accessories as separate catalogue numbers available on the **EcoSense Accessory** cut sheet.

EXAMPLE: ES04-LC-48-30-120-120

Accessories

Also found on the EcoSense Wiring and Mounting Accessory cut sheet.

Leader Cable 10'-0" (UL)	ES04-A-CBL-UL-10	Leader Cable 10'-0" (CE)	ES04-A-CBL-CE-10
Jumper Cable 1'-0" (UL)	ES04-A-JMP-UL-1	Jumper Cable 1'-0" (CE)	ES04-A-JMP-CE-1
Jumper Cable 5'-0" (UL)	ES04-A-JMP-UL-5	Jumper Cable 5'-0" (CE)	ES04-A-JMP-CE-5
Mounting Track (4'-0" Length)	ES04-A-MNT-TRK-4		
Adjustable Mounting Clips (Set of 2)	ES04-A-MNT-ADJ-2		

EcoSpec™

Linear INT

DATE: _____
 PROJECT: _____
 FIRM : _____

TYPE: _____

Photometry Characteristics

Characteristics	
Total Rated Fixture Lumens	251
Total Luminaire Efficiency	100%
IES NEMA Type	7H x 7V
Total Input Watts	5.3
Horizontal Beam Angle (50%)	112.0
Vertical Beam Angle (50%)	110.6
Horizontal Field Angle (10%)	149.8
Vertical Field Angle (10%)	155.7

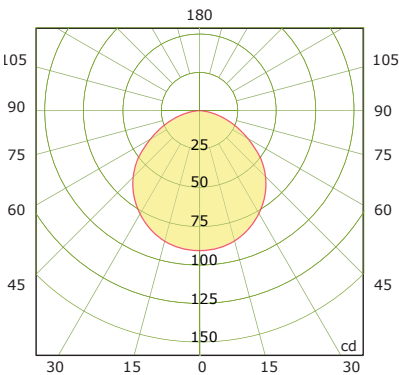
Luminance Data (cd/sq. m)			
Angle In Degrees	Average 0°	Average 45°	Average 90°
0	12146	12146	12146
45	11664	11916	12074
55	10843	11465	11232
65	9336	9811	8756
75	6546	5168	4565
85	1790	1279	1279

Photometrics by an independant lab in accordance with current IES published Procedures.

IES data is available at www.ecosenselighting.com

Fixture: ES04-LC-12-27-120-120

Candela Distribution



Coefficients of Utilization

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
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00			1.00
1	1.10	1.05	1.01	.98	1.07	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.88	.85			.85
2	1.00	.92	.86	.80	.97	.90	.84	.79	.87	.82	.78	.84	.79	.76	.81	.77	.74	.72			.72
3	.91	.81	.73	.67	.89	.80	.72	.67	.77	.70	.65	.74	.69	.64	.71	.67	.63	.61			.61
4	.84	.72	.64	.57	.81	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.59	.54	.52			.52
5	.77	.64	.56	.49	.75	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45			.45
6	.71	.58	.49	.43	.69	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.39			.39
7	.66	.53	.44	.38	.64	.52	.44	.38	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35			.35
8	.61	.48	.40	.34	.60	.47	.39	.34	.46	.39	.33	.45	.38	.33	.43	.37	.33	.31			.31
9	.57	.44	.36	.30	.56	.43	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28			.28
10	.54	.41	.33	.27	.52	.40	.32	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25			.25

Characteristics	
Total Rated Fixture Lumens	300
Total Luminaire Efficiency	99.9%
IES NEMA Type	7H x 7V
Total Input Watts	4.8
Horizontal Beam Angle (50%)	112.0
Vertical Beam Angle (50%)	110.6
Horizontal Field Angle (10%)	149.8
Vertical Field Angle (10%)	155.7

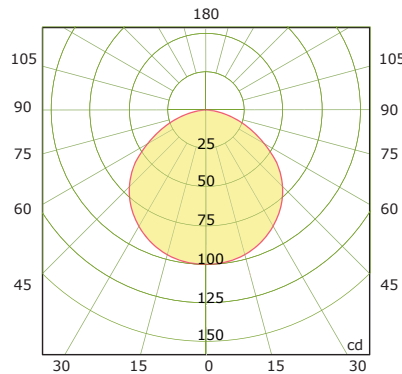
Luminance Data (cd/sq. m)			
Angle In Degrees	Average 0°	Average 45°	Average 90°
0	11018	11018	11018
45	10890	10967	10890
55	10371	10466	10180
65	9196	8894	8462
75	7050	5922	5710
85	4397	3768	3768

Photometrics by an independant lab in accordance with current IES published Procedures.

IES data is available at www.ecosenselighting.com

Fixture: ES04-LC-12-40-120-120

Candela Distribution



Coefficients of Utilization

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
0	1.18	1.18	1.18	1.18	1.15	1.15	1.15	1.15	1.09	1.09	1.09	1.03	1.03	1.03	.98	.98	.98	.96			.96
1	1.08	1.04	1.00	.96	1.05	1.01	.97	.94	.96	.93	.90	.91	.89	.87	.87	.85	.83	.81			.81
2	.99	.91	.84	.78	.96	.88	.82	.75	.84	.79	.75	.80	.76	.75	.77	.73	.70	.68			.68
3	.90	.80	.72	.65	.87	.78	.70	.64	.74	.68	.63	.71	.66	.61	.68	.63	.60	.57			.57
4	.82	.71	.62	.55	.80	.69	.61	.55	.66	.59	.54	.63	.57	.52	.61	.55	.51	.49			.49
5	.76	.63	.54	.48	.73	.62	.53	.47	.59	.52	.46	.57	.50	.45	.54	.49	.45	.42			.42
6	.70	.57	.48	.42	.68	.55	.47	.41	.53	.46	.40	.51	.45	.40	.49	.44	.39	.37			.37
7	.65	.51	.43	.37	.63	.50	.42	.36	.48	.41	.36	.47	.40	.35	.45	.39	.35	.33			.33
8	.60	.47	.38	.33	.58	.46	.38	.32	.44	.37	.32	.43	.36	.31	.41	.35	.31	.29			.29
9	.56	.43	.35	.29	.55	.42	.34	.29	.41	.34	.29	.39	.33	.28	.38	.32	.28	.26			.26
10	.53	.39	.32	.26	.51	.39	.31	.26	.38	.31	.26	.36	.30	.26	.35	.29	.25	.24			.24