ECOSENSE®

New Linear Series

DATE _____ TYPE

PROJ. _____

FIRM _____

EcoSpec® Linear INT 90CRI - Standard Power

OVERVIEW / SPECIFICATION

EcoSpec® Linear INT - is designed with a slim profile and integral brackets with 180° vertical rotation adjustability providing versatility making this luminaire ideally suited for interior architectural, hospitality, retail, exhibit, and display applications. With 90 CRI it is perfect for display and retail lighting. Patent-pending dimming technology dims down to 0% output power.

Features:

- **90+ CRI**
- **Simple Installation**
- **In-line Connection**
- **High Efficacy**
- **Integral Driver / AC Power**
- **Dimmable: ELV (RP), 0-10V**
- **Dimming at 120V, 220V, and 277V**
- **Dimming down to 0%**
- **Long Life (L70)**

PERFORMANCE ADDITIONAL INFORMATION ON NEXT PAGE	CCT (K)	Optic	Lumen Output 12”	Lumen Output 48”	Efficacy (lm/W)
	2700K	120°x120°	227 lm/LF	908 lm	54.9m/W
	3000K	120°x120°	222 lm/LF	888 lm	53.4lm/W
	3500K	120°x120°	250 lm/LF	1,000 lm	62.1lm/W
	4000K	120°x120°	248 lm/LF	992 lm	59.3lm/W

* Performance data is from LM-79 and LM-63 testing at typical power input

	Color Rendering Index	90+
	Color Consistency	2 Step MacAdam Ellipse
	Lumen Depreciation / Rated Life	L70 >60,000 hours @ 25°C*

* Calculations for LED fixtures are based on measurements that comply with IES LM-80 testing procedures and IES TM-21 Calculator.

ELECTRICAL	**Power Consumption**	4.5W/LF Typical (The Typical input power range allows for a +/-10% variation of all components) 5W/LF Maximum (All fixtures are labelled with Maximum wattage)
	Max Fixture Run Length	140’ (40m) @120VAC; 280’ (80m) @220VAC ; 200’ (60m) @277VAC
	Power Factor	0.90
	Operating Voltage	100-120VAC, 220-240VAC, 277VAC, 50/60 Hz (all voltages)
	Driver	Integral to Fixture; De-rated Power and Synchronous Start-up at Full Brightness
	Startup Temperature	-4°F to 122°F (-20°C to 50°C)
	Operating Temperature	-4°F to 122°F (-20°C to 50°C)
	Storage Temperature	-40°F to 176°F (-40°C to 80°C)
CONTROL	**Dimming**	100-120VAC ELV type, Reverse Phase, Trailing Edge 220-240VAC ELV type, Reverse Phase, Trailing Edge 277VAC ELV type, Reverse Phase, Trailing Edge 120VAC / 277VAC, 0-10V with Linear Dimming Control Module (LDCM)
PHYSICAL	**Dimensions**	W 2.0” x H 1.4” x L 12”/48”; (52mm x 35.7mm x 304mm/1,219mm)
	Housing / Lens	Extruded Aluminium; Clear Polycarbonate; Stainless Steel Fasteners Plastic Endcaps with Plastic/Rubber Overmold for Cable Assembly
	Weight	0.496lbs. / 0.225kg (1ft) ; 1.61lbs. / 0.73kg (4ft)
	Connectors	Integral Male/ Female 3 Pin Connectors on Pigtail Cable Assembly, IP40 Rated
	Environment	Indoor; CE Certified IP40 / ETL Certified for Dry/Damp Locations
	Beam Angle	Clear Lens: 120°x 120°, Frosted Lens Accessory Available
	Mounting Options:	Integral Adjustable 180° Rotation Brackets
FIXTURE RATING & CERTIFICATIONS	**CE, C-Tick Certified, CCC** **ETL Certified** **RoHS Compliant** **Energy Star, Title 24**	Intertek · CE · RoHS COMPLIANT · ENERGY STAR · California Title 24
LIMITED WARRANTY	**5 Years**	

**Energy Star is certified to LCISH-XX-XX-120-120 series / Title 24 is certified to LCISH-12-27-120-120 & LCILH-12-27-120-120

EcoSense THD/Inrush Current Information: Please contact an EcoSense Lighting sales representative

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Los Angeles, CA 90017

Phone 310-496-6255
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855-6-ECOSEN

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SPEC-LCISH-20140204-V1

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EcoSpec® Linear INT 90CRI - Standard Power

ORDERING

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

LCISH / LCILH	-		-		-		-	120

MODEL	LENGTH	COLOR	VOLTAGE	OPTIC
LCISH	**12** - 12”	**27** - 2700K	**120** - 100-120VAC	**120** - 120° x 120°
LCILH#	**48** - 48”	**30** - 3000K	**220** - 220-240VAC	
		35 - 3500K	**277** - 277VAC**	
		40 - 4000K		

EXAMPLE: LCISH - 12 - 27 - 120 - 120 (*Linear Cove Interior Standard Power High CRI)

LCILH - 12 - 27 - 120 - 120 (*Linear Cove Interior Low Power High CRI)

See Linear INT Low Power High CRI Spec Sheet for more details

Wiring Options			
*INT Leader Cable, 3 Pin, 10ft, 110V	**INT3P-A-LDR-120-10**	INT Leader Cable, 3 Pin, 10ft, 220V	**INT3P-A-LDR-220-10**
INT Jumper Cable, 3 Pin, 5ft, 110V	**INT3P-A-JMP-120-05**	INT Jumper Cable, 3 Pin, 5ft, 220V	**INT3P-A-JMP-220-05**
INT Jumper Cable, 3 Pin, 1ft, 110V	**INT3P-A-JMP-120-01**	INT Jumper Cable, 3 Pin, 1ft, 220V	**INT3P-A-JMP-220-01**
INT Jumper Cable, 3 Pin, 4in, 110V	**INT3P-A-JMP-120-4**	INT Jumper Cable, 3 Pin, 4in, 220V	**INT3P-A-JMP-220-4**
* One (1) Terminator included standard with each leader cable.			
One Leader Cable is required per circuit / fixture run. Leader cable has bare leads one end, female connector opposite end. Leader / Jumper cables are not rated for plenum applications.			
**The 120VAC cables are also rated for 277VAC use.			

Control Options	
100-120VAC / 277VAC Linear Dimming Control Module 0-10V	LDCM-120-277-010V-GR
100-120VAC / 277VAC Linear Dimming Control Module 0-10V - Plenum Rated	LDCM-PL-120-277-010V-GR

Mounting Options	
Integral, 180° Adjustable Brackets	Factory installed with 2 (two) per product length, non-removable

Frosted Lens Option		
Frosted Lens, Linear INT, 12in	**LCI-A-FRLS-12**	Snap-on lens before or after mounting fixture.
Frosted Lens, Linear INT, 48in	**LCI-A-FRLS-48**	Snap-on lens before or after mounting fixture.

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SPEC-LCISH-20140204-V1

DIMENSIONS

For complete dimensions and submittal drawings, please visit:
ecosenselighting.com

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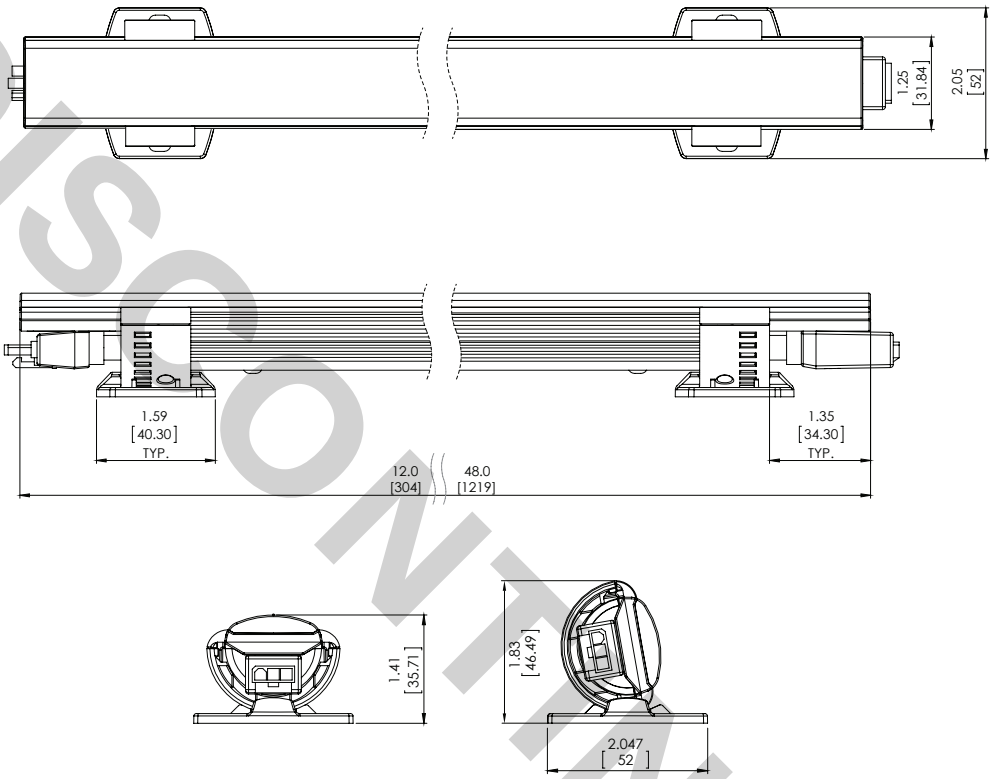

DIMENSION IN
INCHES / [MM]

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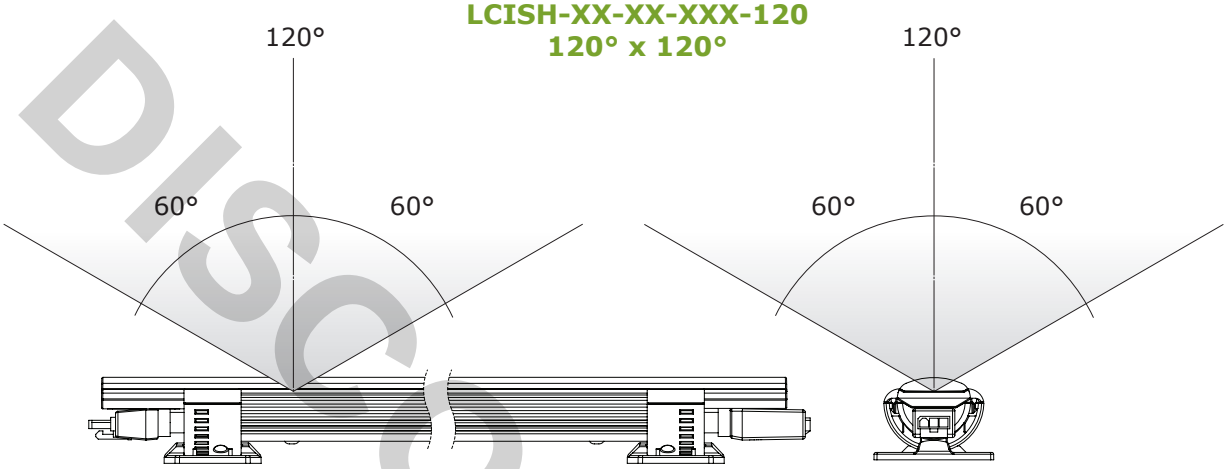
DISTRIBUTIONS

LCISH-XX-XX-XXX-120
120° x 120°



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EcoSpec® Linear INT 90CRI - Standard Power

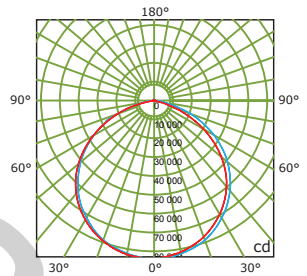
PHOTOMETRY CHARACTERISTICS

For complete library of IES files, please visit: ecosenselighting.com

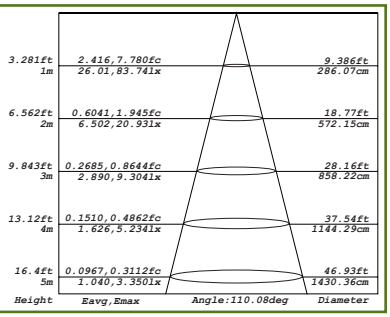
120°x 120°

2700K*

CHARACTERISTICS: LINEAR INT - SP (LCISH) 2700K / 120°X 120°	
Total Rated Fixture Lumens	227
Total Luminaire Efficiency	100%
Total Input Watts	4.15W
Horizontal Beam Angle (50%)	112.9
Vertical Beam Angle (50%)	109.9
Horizontal Field Angle (10%)	156.4
Vertical Field Angle (10%)	149.7

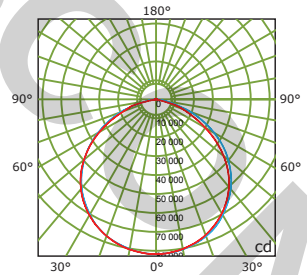


	0	22.5	45	67.5	90
0	83.7	83.7	83.7	83.6	83.6
5	83.4	83.2	83.1	82.9	83
15	80.7	80.1	80.1	79.5	79.5
25	75.6	75	74.4	73.6	73.5
35	67.6	66.7	66	65.1	65
45	56.9	56.3	54.6	53.6	53.6
55	44.1	42.5	40.3	39.1	38.6
65	29.3	26.9	23.8	22.3	21.4
75	11.8	8.4	7.3	5.1	2.6
85	1.3	0.6	0.6	0.5	0.6
90	0.3	0.3	0.4	0.4	0.4

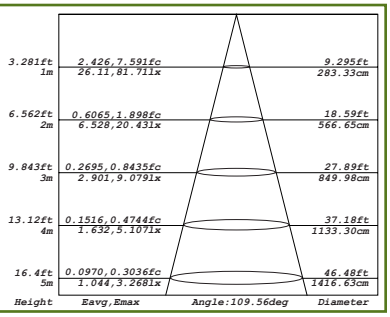


3000K

CHARACTERISTICS: LINEAR INT - SP (LCISH) 3000K / 120°X 120°	
Total Rated Fixture Lumens	221
Total Luminaire Efficiency	100%
Total Input Watts	4.16W
Horizontal Beam Angle (50%)	112.7
Vertical Beam Angle (50%)	109.5
Horizontal Field Angle (10%)	155.6
Vertical Field Angle (10%)	151.8

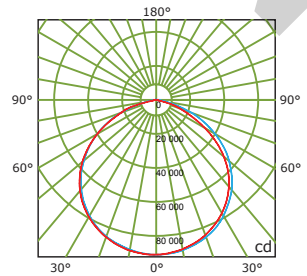


	0	22.5	45	67.5	90
0	81.7	81.7	81.7	81.7	81.7
5	81.3	81.4	81.3	81.3	81.3
15	78.6	78.6	78.7	78.4	78.6
25	73.8	73.6	73.6	73.2	73.2
35	65.8	65.6	65.7	65	65.1
45	55.5	55.8	54.8	53.9	53.7
55	42.8	42.4	40.6	39	38.5
65	27.9	26.6	23.3	21.8	21.8
75	11	8.7	8.7	7.6	4.9
85	1.4	0.6	0.6	0.5	0.6
90	0.3	0.2	0.4	0.3	0.4

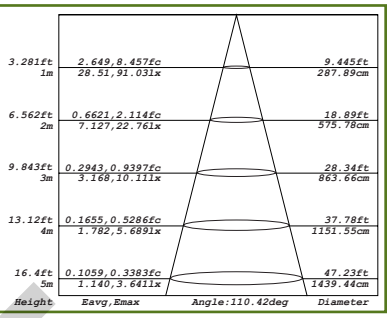


3500K

CHARACTERISTICS: LINEAR INT - SP (LCISH) 3500K / 120°X 120°	
Total Rated Fixture Lumens	249
Total Luminaire Efficiency	100%
Total Input Watts	4.02W
Horizontal Beam Angle (50%)	113.2
Vertical Beam Angle (50%)	110.2
Horizontal Field Angle (10%)	155.6
Vertical Field Angle (10%)	151.8

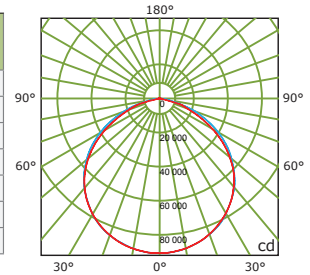


	0	22.5	45	67.5	90
0	91	91	91	90.9	90.9
5	90.5	90.5	90.4	90.4	90.3
15	87.6	87.4	87.2	86.9	87.1
25	82.4	81.8	82	80.8	81.1
35	73.8	73.4	73	71.9	72.2
45	62.5	62.2	61	60	59.8
55	48.1	47.7	45.9	43.5	42.9
65	31.4	30	25.9	23.9	23
75	12	9.5	8.7	8.7	6.7
85	1.5	0.7	0.7	0.6	0.7
90	0.3	0.3	0.4	0.4	0.5

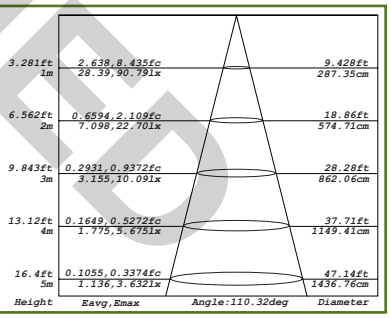


4000K

CHARACTERISTICS: LINEAR INT - SP (LCISH) 4000K / 120°X 120°	
Total Rated Fixture Lumens	248
Total Luminaire Efficiency	100%
Total Input Watts	4.19W
Horizontal Beam Angle (50%)	113.3
Vertical Beam Angle (50%)	110.3
Horizontal Field Angle (10%)	156.2
Vertical Field Angle (10%)	152.5



	0	22.5	45	67.5	90
0	90.8	90.8	90.8	90.7	90.7
5	90.4	90.5	90.4	90.3	90.3
15	87.6	87.6	87.5	87.2	87.3
25	82.5	82.2	81.8	81.5	81.6
35	73.7	73.4	73.6	73.1	73.1
45	62.7	62.8	62.1	61.4	61.3
55	48.7	48.4	47.2	45.8	45.1
65	31.6	31.3	28.5	26.8	26
75	13.2	11.6	10.1	11.4	9.4
85	1.8	1.1	0.6	0.5	0.6
90	0.3	0.2	0.4	0.3	0.4



Photometrics by an independant lab in accordance with current IES published Procedures.
* Lumen measurements comply with IES LM-79-08.
IES data is available at www.ecosenselighting.com

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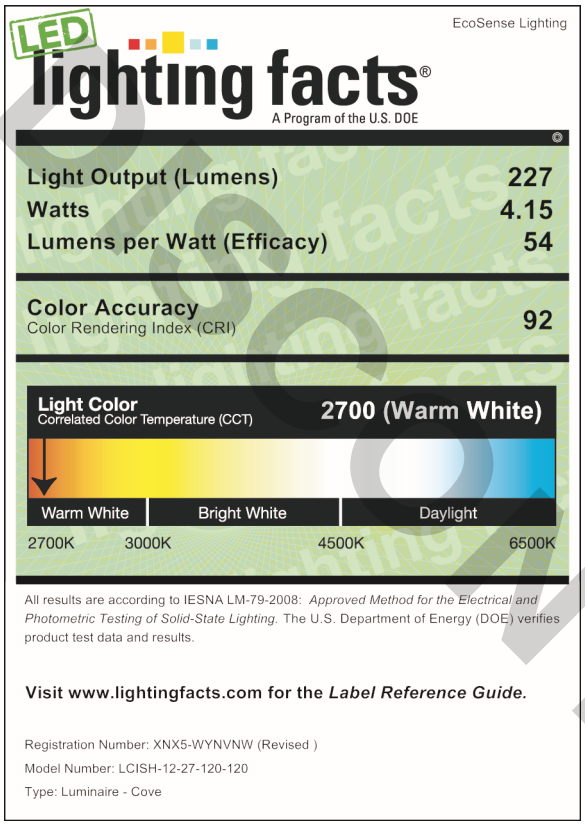
LIGHTING FACTS LABELS



EcoSense Lighting

LED lighting facts®

A Program of the U.S. DOE

Light Output (Lumens)	227
Watts	4.15
Lumens per Watt (Efficacy)	54
Color Accuracy Color Rendering Index (CRI)	92

Light Color Correlated Color Temperature (CCT) — 2700 (Warm White)

Warm White | Bright White | Daylight

2700K 3000K 4500K 6500K

All results are according to IESNA LM-79-2008: *Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.* The U.S. Department of Energy (DOE) verifies product test data and results.

Visit www.lightingfacts.com for the *Label Reference Guide.*

Registration Number: XNX5-WYNVNW (Revised)

Model Number: LCISH-12-27-120-120

Type: Luminaire - Cove

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