

# Lumination™ LED Luminaires

LIS Series with Replaceable Light Engine



Project name \_\_\_\_\_

Date \_\_\_\_\_

Type \_\_\_\_\_

## Product Description:

GE's Lumination LED fixtures with reveal® TriGain™ technology - LIS Series Suspended Series are designed to offer lighting designers enhanced CRI and R9 without sacrificing efficiency. With R9 greater than 90, these fixtures optimally display objects like produce, fabric, skintones and artwork - all with a remarkably efficient 127 lumens per watt, reducing maintenance and operating costs. Available in 7% and 12% upright versions as well.

## Performance Summary:

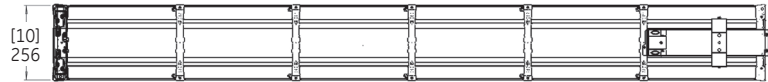
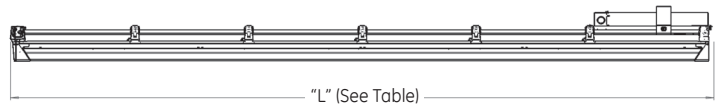
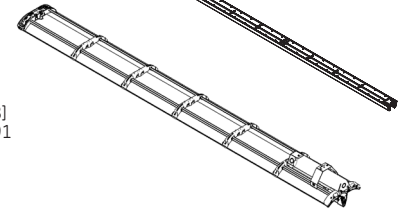
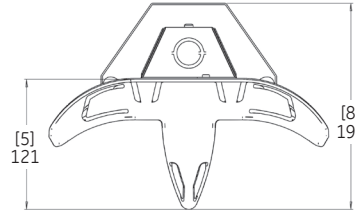
**Distribution Patterns:** Medium  
**Delivered Lumen Output:** 4,200-24,000 lm  
**System Input Power:** 34-182 W  
**Efficacy:** Up to 153 LPW  
**Input Voltage:** 120-277V; 347V  
**Standard Dimming Control:** 0-10V  
**Dimming Compatibility:** Refer to Dimmer List  
**CCT:** 3000K, 3500K, 4000K & 5000K  
**Typical CRI:** 83-90  
**Color Consistency:** 4 Step MacAdam Ellipse  
**Input Frequency (Hz):** 50-60Hz  
**Power Factor:** >0.9\* (See details below)  
**Dimensions:** 10 x 49 x 8 inches (258 x 1256 x 191 mm) 4 ft  
 10 x 97 x 8 inches (258 x 2473 x 191 mm) 8 ft  
**Mounting:** Suspension (see Accessories Table below)  
**Weight:** <20 lbs  
**IC rating:** Non-IC Rated  
**Warranty:** 5 Years standard  
**Rated Life:** L70 @ 90,000 hours for Trigain only (CRI code = P)  
 L85 @ 75,000 hours for Best White (CRI code = 8)  
**Storage temperature:** -40°C to 70°C  
**Operating temperature:** -10° up to 35° C  
**Removable Light Engine:** Available



Integrated sensor option

## Product Dimensions mm (inches):

CONFIGURATION	4 FT	8 FT
Length "L" (Inches)	49	97
Length "L" (MM)	1256	2473



Certified by:

Please refer to the DLC QPL website for the latest and most complete information.  
[www.designlights.org/QPL](http://www.designlights.org/QPL)

## Maximum Run Length per 1 power drop:

Supply Voltage	Lumen Code							
	[42] [84]	[62] [A2] [52] [A0]	[65] [85] [A3] [A7]	[A1] [A2] [B1] [B4]				
120V	192'	160'	80'	60'				
277V or 347V	400'	320'	188'	132'				

## Ordering Information:

LIS

CS WHITE

FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	NOMINAL LUMENS	DISTRIBUTION	CRI	CCT	CONTROLS	MOUNTING	FINISH	OPTIONS
LIS	C4* = Continuous 4ft C8* = Continuous 8ft I4 = Independent 4ft I8 = Independent 8ft  *Starter kit required (see accessory page below)	B = Replaceable light engine* C = Replaceable light engine*  *Specify generation 'C' for 83 CRI. Specify generation 'B' for 90 CRI. *Generation 'B' is not available in lumen [62]	O = 120-277 VAC D = 347 VAC	<b>4 FT Only</b> 42 = 4200 52 = 5200 62 = 6250 65 = 6500 85 = 8500 A1 = 10500 A2 = 12000  <b>8 FT Only</b> 84 = 8400 A0 = 10400 A2 = 12500 A3 = 13000 A7 = 17000 B1 = 21000* B4 = 24000*	D1 = 100% Direct D8 = 12% Uplight D9 = 7% Uplight	P = 90CRI 8 = 83CRI	30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K  *Note: 90 CRI available with the below lumen levels: 4ft-(42 & 52 only) 8ft -(84 & A0 only) in the 3500K and 4000K CCT only.	VQ = 0-10V VT = 0-10V, Daintree Networks S1 = on/off occ. sensor S2 = 0-10V, on/off occ. & daylight harvesting sensor*  *Note: Order programming remote (197634) *S1&S2 controls only available with 120V/277V input voltage	CS = (See accessories page below for further accessory/ mounting options which have to be ordered separately*)  *2 mounting brackets come included with each fixture	WHITE = White	Blank if no options EL = Emergency Light* BP = Bulk Pac A = Branch Circuit* WP = White Painted RC = Red End Cap BC = Black End Cap GC = Grey End Cap HE = High Efficiency Fixture* P10 = 10 ft (14AWG 5cond) Power Cord White* P20 = 20 ft (14AWG 5cond) Power Cord White* SPL = Sample with 6 ft cord and 120Voc wall plug* R10 = RELOC 277V 10 ft 3C*  *EL option is only available with the below lumen levels: 4ft-(42, 52, 62, 65 & 85 only) 8ft-(84, A0, A2, A3 & A7 only). *EL option not available with 347V *EL option VQ Controls only * A option not available for 'I4' & 'I8' fixture type * Only 1 cord option (SPL, R10, P10 or P20 per SKU) * Cord options (SPL, R10, P10, P20) not available with EL or A options Cord options (SPL, R10, P10, P20) not available with -EL & A options, -347V input voltage, -C4 & C8 fixture type **RC, BC, GC options only available with I4 & I8 fixture type ***HE only available with -120/277V input voltage, -83CRI, -Lumen codes (42, 54, 84, A0)

### \*Starter Kit:

Kit SKUs	Kit Quantity	Kit includes (per continuous row)
93018007-White	1	1 x starter power harness 1 x starter dimming harness
93022791-White	10	2 x end caps for both sides of row

current  
powered by GE



# Accessories

# Product code

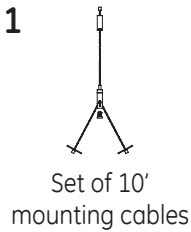
Sample SKU: LISI4B042D1P40VQCSWHTESPL

93073490

## Power Cord Kit - Options

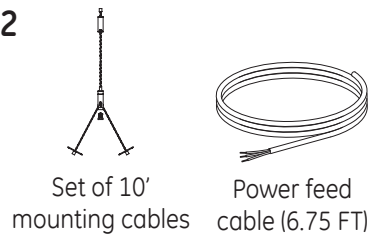
93083221 POWER CORD KIT, LIS,14AWG-5COND,10FT,BLK  
 93083222 POWER CORD KIT, LIS,14AWG-5COND,10FT,WHT  
 93083223 POWER CORD KIT, LIS,14AWG-5COND,20FT,BLK  
 93083224 POWER CORD KIT, LIS,14AWG-5COND,20FT,WHTE

## Suspended Kits - Option 1



93035285

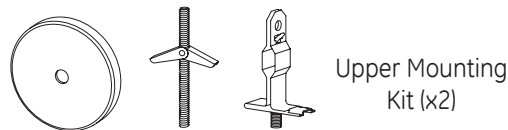
## Suspended Kits - Option 2



93035306<sup>1</sup>

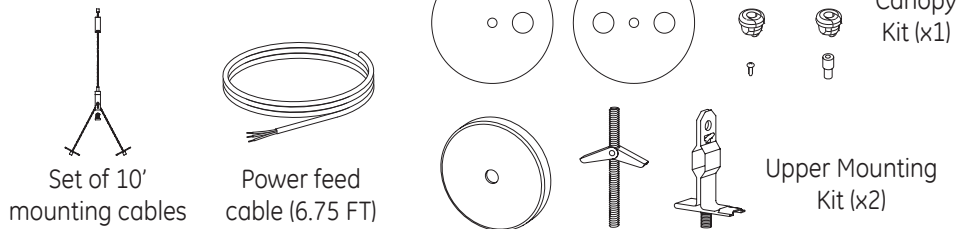
1. Dimming leads not included; #14-4 gauge; includes black, white, green and red (for additional circuits)

## Suspended Kits - Option 3



93026986

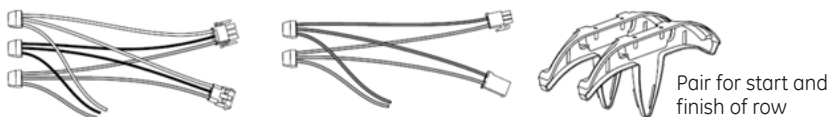
## Suspended Kits - Option 4



93035307<sup>1</sup>

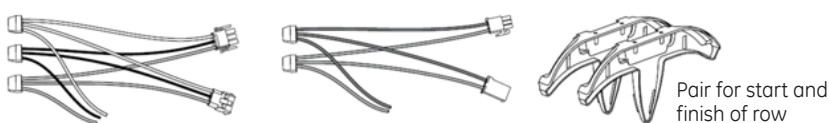
1. Dimming leads not included; #14-4 gauge; includes black, white, green and red (for additional circuits)

## Starter Kit (1 row)



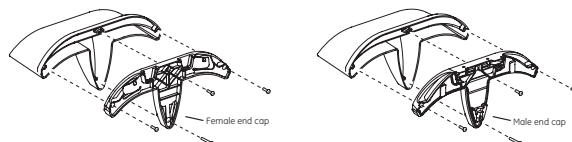
White: 93018007 (kit quantity = 1)  
 Grey: 93081607 (kit quantity = 1)  
 Black: 93081606 (kit quantity = 1)  
 Red: 93081609 (kit quantity = 1)

## Starter Kit (10 row)



White: 93022791 (kit quantity = 10)  
 Grey: 93081608 (kit quantity = 10)  
 Black: 93081245 (kit quantity = 10)  
 Red: 93081610 (kit quantity = 10)

## Architectural End Cap



93039940 - Contains set (2)

## Anti-snaking brackets

93088000

# Photometric Data: LISI8 Series

L-IS-X8-BX84DIP40-VQCS-WHTE-XX

CANDLEPOWER SUMMARY			
Angle	0°	45°	90°
45°	3876	4368	4659
55°	3906	4717	4919
65°	3926	4995	4964
75°	3866	4988	4225
85°	3389	2511	2399

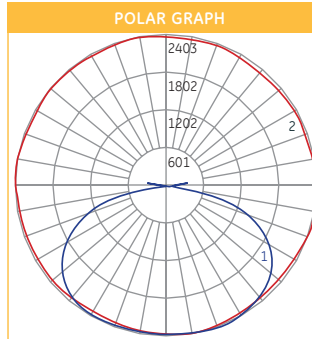
ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	227.53
10-20	666.91
20-30	1044.13
30-40	1331.00
40-50	1491.13
50-60	1477.78
60-70	1252.06
70-80	787.23
80-90	207.36
90-100	67.52
100-110	29.05
110-120	9.49
120-130	2.05
130-140	1.79
140-150	1.76
150-160	1.62
160-170	1.14
170-180	0.43

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%	0%	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99		
1	107	102	98	93	105	100	96	92	95	92	89	91	88	86	87	85	83	81		
2	97	88	81	74	94	86	79	73	82	76	71	79	74	70	75	71	68	65		
3	88	76	68	61	85	75	67	60	71	64	59	68	62	58	66	61	56	54		
4	80	67	58	51	77	66	57	50	63	55	49	60	54	48	58	52	48	45		
5	73	59	50	43	71	58	49	43	56	48	42	54	47	41	52	46	41	39		
6	67	53	44	37	65	52	43	37	50	42	36	48	41	36	47	40	35	33		
7	62	48	39	32	60	47	38	32	45	38	32	44	37	32	42	36	31	29		
8	58	44	35	29	56	43	34	29	41	34	28	40	33	28	39	32	28	26		
9	54	40	31	26	52	39	31	26	38	31	25	37	30	25	36	29	25	23		
10	50	37	29	23	49	36	28	23	35	28	23	34	27	23	33	27	22	21		

NOTE: Floor Cavity Reflectance : 20%

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20	894.44	N.A.	10.40
0-30	1938.57	N.A.	22.50
0-40	3269.58	N.A.	38.00
0-60	6238.49	N.A.	72.50
0-80	8277.78	N.A.	96.30

Total Luminaire Efficiency = N.A.%



## Product Specifications:

### Construction:

- Fully recyclable heatsink
- IP Rating: IP20
- Impact Resistance: IK=2

### Electrical System:

- Class 2, replaceable, high efficiency LED driver rated for 50,000 hours when used within operating conditions.
- Audible Noise - Per 29CFR 1910 sub part G: <24 dba (1 foot)
- THD: <20%
- PF > 0.9 except for the following conditions:
  - 4ft SKU with [A3] lumen
  - 4ft SKU with [EL] option
- Transient Protection: 100 kHz ring wave, 2.5 kV level
- Environmental Testing: High Temperature High Humidity: 60°C / 90% (non-condensing)
- Electronic Vibration Testing: Multi Axis, Random Vibration Profile: 2-2000 Hz, 5Gs on electronics
- Compliant with the material restriction requirements of RoHS

### Installation:

- When ordering Lumination IS Series LED Luminaires 2 mounting brackets are included with each fixture.
- Additional mounting brackets can be ordered if needed, depending upon mounting and spacing of application.

For more information and access to all of our resources, including our design tool visit: [www.gelighting.com](http://www.gelighting.com)

## Performance Tables:

### REVEAL TRIGAIN, CRI = 90+

DIMENSION	OPTICAL CODE	CCT	LUMENS	POWER	LPW
4 FT	42P35	3500	4000	34	117.6
4 FT	42P40	4000	4200	34	123.5
4 FT	52P35	3500	5000	43	116.3
4 FT	52P40	4000	5200	43	120.9
8 FT	84P35	3500	8000	66	121.2
8 FT	84P40	4000	8400	66	127.3
8 FT	A0P35	3500	9900	84	117.9
8 FT	A0P40	4000	10,400	84	123.8

\*NOTE:  
- 5W increment for EL option  
- CRI = 90+  
- Reveal® TriGain™

### CRI = 83

DIMENSION	OPTICAL CODE	CCT	LUMENS	POWER	LPW
4 FT	42840	4000	4200	31	135.5
4 FT	52840	4000	5200	38	136.8
4 FT	62840	4000	6250	48.5	128.9
4 FT	65840	4000	6500	43.2	150.5
4 FT	85840	4000	8500	58.3	145.8
4 FT	A1840	4000	10500	75	140
4 FT	A2840	4000	12300	89.6	137.3
8 FT	84840	4000	8400	60	140.0
8 FT	A0840	4000	10400	78	133.3
8 FT	A2840	4000	12500	96	130.2
8 FT	A3840	4000	13000	86.5	150.3
8 FT	A7840	4000	17000	113	150.4
8 FT	B1840	4000	21100	150	140.7
8 FT	B4840	4000	24500	182	134.6

\*NOTE:  
- Lumen Multiplier = 0.95 for CCT = 3000K  
- Lumen Multiplier = 0.97 for CCT = 3500K  
- Lumen Multiplier = 1.02 for CCT = 5000K  
- 5 Watt increment for EL option  
- CRI = 83

### HIGH EFFICIENCY (HE) OPTION

DIMENSION	OPTICAL CODE	CCT	LUMENS	POWER	LPW
4 FT	42840	4000	4200	27	155
4 FT	52840	4000	5200	34	153
4 FT	84840	4000	8400	53	158
4 FT	A0840	4000	10400	66	158

\*NOTE:  
HE option ONLY  
Lumen multiplier:  
CCT = 3500K -> 0.97  
CCT = 5000K -> 1.02  
Not available in [T] CRI  
Only available for following lumen code:  
[42], [52], [84] and [A0]



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