Lumination™ LED Luminaires

LIS Series with Replaceable Light Engine



Length "L" (Inches) Length "L" (MM)

Length "L" w/SENSOR (Inches)

Length "L" w/SENSOR (MM)

Product Dimensions mm (inches):

1256

1432

2473

104

2642

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 158 lumens per watt, reducing maintenance and operating costs. Available in 7% and 12% uplight 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 158 LPW Input Voltage: 120-277V; 347V Standard Dimming Control: 0-10V 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 (CRI code = 8) Storage Temperature: -40°C to 70°C Operating Temperature: -10° up to 35° C

Removable Light Engine: Available



Integrated sensor option







a product of ecomagination^a

LIS Replaceable

Light Engine

Maximum Run Length per 1 power drop:

CS

	Lumen Code								
Supply Voltage	[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'					

WHTE

Certified by: NOM







Please refer to the DLC QPL website for the latest and most complete information. www.designlights.org/QpL

Ordering Information:

LIS

		_	_			_					
FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	NOMINAL LUMENS	DISTRIBUTION	I CRI	ССТ	CONTROLS	MOUNTING	FINISH	OPTIONS
LIS *Starte	C4* = Continuous 4ft C8* = Continuous 8ft 14 = Independent 4ft 18 = 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 'Generation 'B' is not available in lumen (6)	VAC D = 347 VAC CRI.	42 = 4200 52 = 5200 62 = 6250 65 = 6500 L 85 = 8500 4 A1 = 10500 A2 = 12000 84 = 8400 A0 = 10400 A2 = 12500 A3 = 13000 A7 = 17000 B1 = 21000* B4 = 24000* Note: B1 and B4 not available in 347V.	D1 = 100% Direct D8 = 12% Uplight D9 = 7% Uplight		50 = 5000K available with en levels: hly) 8ft -(84 & 2 3500K and	VT = 0-10V,	CS = (See accessories page below for further accessory/ mounting options which have to be ordered separately *2 mounting brackets co included with each fixtual *7V	.*) me	Blank if no options A = Branch Circuit* EL = Emergency Light* BP = Bulk Pack BC = Black End Cap GC = Grey End Cap RC = Red End Cap HE = High Efficiency Fixture*** P10 = 10 ft (14AWG Scond) Power Cord White* P10 = 10 ft (14AWG Scond) Power Cord White* R10 = RELOC 277V 10 ft 3C* R10 = RELOC 277V 10 ft 3C* SPL = Sample with 6 ft cord and 120Vac wall plug* WP = White Pointed *EL option is only available with the below lumen levels: 4ft 4fg. 5g. 6g. 65 8 65 mily 8t - 14A, 0, 2A, 3 & A7 anly! *EL option not available with 1947V
Kit SKu	s Kit Qu	antity Kit incl	udes (per con	tinuous row)							*EL option not available with 347V *EL option VQ Controls only * A option not available for '14' & '18' fixture type
930180	07-White	starter mming harness							* A option not available for "14" & "18" fixture type * Only 1 cord option (SPL, R10, P10 or P20 per SKU *Cord options (SPL, R10, P10, P20) not available with		
930227	93022791-White 10 power harness dimming harness 2 x end caps for both sides of row							echnical Supp tingprodinfo@			EL or A options Cord options (SPL R10, P10, P20) not available with : -FL
							3, Option		- 3		A options, -347V input voltage, -C4 & C8 fixture type "RC, BC, GC options only available with 14 & 18 fixture type "**HC, BC only available with -120/277V input voltage, -83CRI, -Lumen codes (42 or 52) for 4ft. or (84 or A0) for 8ft.





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 - Mounting Open/unfinished Ceiling Set of 10' mounting cables	93035285: Pair of 10' aircraft cables 93116031: Pair of 20' aircraft cables
Suspended Kits - Mounting + Power Open/Unfinished Ceiling Set of 10' mounting cables Power feed cable 1. Dimming leads not included; #14-4 gauge; includes black, white, green and red (for additional circuits)	93115897: Pair of 10' aircraft cables; 10' white power cord ¹ 93115898: Pair of 20' aircraft cables; 20' white power cord ¹ 93115899: Pair of 10' aircraft cables; 10' black power cord ¹ 93115900: Pair of 20' aircraft cables; 20' black power cord ¹
Suspended Kits - Mounting Finished Ceiling Set of 10' mounting cables Upper Mounting Kit (x2)	93115708: Pair of 10' aircraft cables; White canopy cover, upper mounting x2 93115709: Pair of 20' aircraft cables; White canopy cover, upper mounting x2 93115710: Pair of 10' aircraft cables; Black canopy cover, upper mounting x2 93115711: Pair of 20' aircraft cables; Black canopy cover, upper mounting x2

Product Code Accessories **93115847:** White canopy kit (x1); Suspended Kits - Mounting + Power Finished Ceiling White upper mounting kit (x2); 10' aircraft cables; 10' white power $cord^1$ **93115848:** White canopy kit (x1); White upper mounting kit (x2); 20' aircraft cables; 20' white power Power feed cable cord1 #14-4 gauge; includes black, Set of 10' white, green and red (for additional circuits) **93115849:** Black canopy kit (x1); mounting cables Black upper mounting kit (x2); 10' aircraft cables; 10' black power Canopy cord1 $\bigcirc \circ \bigcirc$ Kit (x1) **93115850:** Black canopy kit (x1); Black upper mounting kit (x2); 20' aircraft cables; 20' black power cord1 **Upper Mounting** Kit (x2) 1. Dimming leads not included; #14-4 gauge; includes black, white, green and red (for additional circuits) Starter Kit 4 White: 93018007 (kit quantity = 1) Grey: 93081607 (kit quantity = 1) (1 row) Black: 93081606 (kit quantity = 1) Pair for start and Red: 93081609 (kit quantity = 1) finish of row Starter Kit White: 93022791 (kit quantity = 10) Grey: 93081608 (kit quantity = 10) (10 row) Black: 93081245 (kit quantity = 10) Pair for start and Red: 93081610 (kit quantity = 10)

finish of row

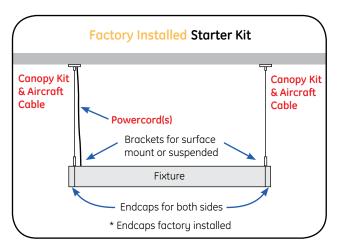
Extra suspension brackets

Use if extra brackets are required. See diagram on next page - brackets included with each fixture.



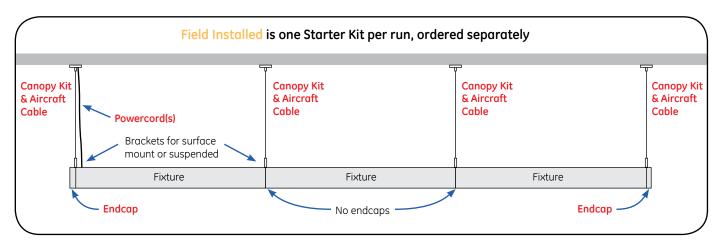
94210 - Standard Bracket (10pcs) 93088000 - Anti-Snaking brackets (10pcs)

Independent



 RED indicates items that must be ordered as options or accessories.

Continuous Run



• RED indicates items that must be ordered as options or accessories. The starter, when suspended, is normally the only fixture in the row with (2) suspension hangers. The rest of the run may be suspended from a single hanger.

Photometric Data: LISI8 Series

L-IS-X8-BX84DIP40-VOCS-WHTE-XX

CANDLE POWER Summary									
45°	3876	4368	4659						
55°	3906	4717	4919						
65°	3926	4995	4964						
75°	3866	4988	4225						
85°	3389	2511	2399						

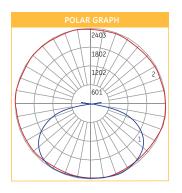
ZONAL LUMEN Summary							
0-10	227.53						
10-20	666.91						
20-30	1044.13						
30-40	1331.00						
40-50	1491.13						
50-60	1477.78						
60-70	1252.06						
70-80	787.23						
80-90	207.36						
90-100	67.52						
100-110	29.05						
110-120	9.49						
120-130	2.05						
130-140	1.79						
140-150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

	COEFFICIENTSOF UTILIZATION																	
RC		809	%			70	%			50%		30%			10%		0%	
RW																		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									
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.

Emergency battery Option:

- Luminaires with the "EL" option code come equipped with an IOTA $\,$ Engineering ILB-SLHE-10 emergency battery back-up system to provide egress lighting during power interruptions.
- To calculate delivered lumens for an EL equipped luminaire use the following

Emergency mode Lumens = $P \times LPW$

"P" is the output power of the emergency system (10W for "EL")

"LPW" is the efficacy of the system as determined from the performance data For more information refer to www.iotaengineering.com/ILB/ILBCPAmanual.pdf

For more information and access to all of our resources, including our design tool visit: www.currentbyge.com

Performance Tables:

REVEAL TRIGAIN, CRI = 90+

DIMENSION	OPTICAL CODE	ССТ		POWER	
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

CRI = 83

DIMENSION	OPTICAL CODE	ССТ		POWER	
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

HIGH EFFICIENCY (HE) OPTION

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

*NOTE:

5W increment for EL option

- CRI = 90+ Reveal® TriGain™

*NOTE:

- CRI = 83

- 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

*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] for 4ft., [84] & [A0] for 8ft.



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