

# Lumination™ LED Luminaires

LIS Series with Replaceable Light Engine



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

Date \_\_\_\_\_

Type \_\_\_\_\_

## Product Description:

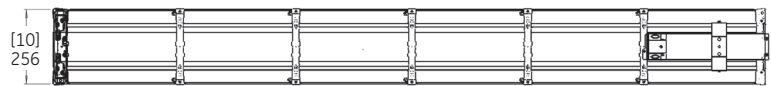
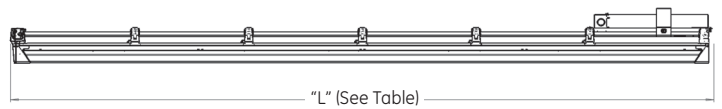
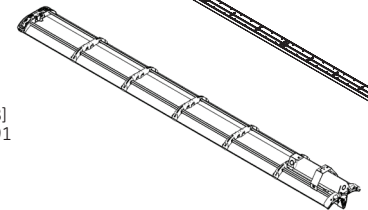
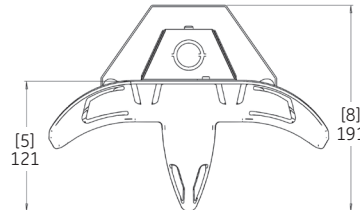
GE's Lumination LED fixtures with reveal® TriGain™ technology - IS Series are designed to offer lighting designers enhanced CRI and R9 without sacrificing efficiency. With R9 greater than 90, these fixtures optimally display objects like produce, fabric, skintones and artwork - all with a remarkably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

## Performance Summary:

**Distribution Patterns:** Medium  
**Delivered Lumen Output:** 4,200-24,000 lm  
**System Input Power:** 34-190 W  
**Efficacy:** 127 LPW  
**Input Voltage:** 120-277V; 347V  
**Standard Dimming Control:** 0-10V  
**Dimming Compatability:** 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  
 L85 @ 75,000 hours for Best White  
**Storage temperature:** -40°C to 70°C  
**Operating temperature:** -10° up to 35° C  
**Removable Light Engine:** Available  
**R9:** 90 @ 4000K for Trigain only

## 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)  
 (For TriGain/90 CRI sku's only.)

## Maximum Run Length:

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

## Ordering Information:

L IS \_\_\_\_\_ V \_\_\_\_\_ CS WHITE \_\_\_\_\_

MACRO CODE	FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	NOMINAL LUMENS	DISTRIBUTION	CRI	CCT	DIMMING	CONTROLS	MOUNTING	FINISH	OPTIONS
L	IS	C4* C8* I4 I8	B = Replaceable light engine 1 = Fixed light engine	O = 120-277 VAC D = 347 VAC	4 FT Only 42 = 4200 52 = 5200 65 = 6500 85 = 8500 A1 = 10500 A2 = 12000 8 FT Only 84 = 8400 A0 = 10400 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	V = 0-10V Contact manufacturer for lead time and minimum order quantities.	Q = None T = Daintree Networks N = Enlighted Networks	CS = Suspension Kits, See Accessories table below (each fixture comes included with 2 brackets).	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

### \*Starter Kit:

Kit SKUs	Kit Quantity	Kit includes (per continuous row)
95022762-Grey	1	
95022773-Grey	10	1 x starter power harness
95022778-Black	1	
95022779-Black	10	1 x starter dimming harness
93018007-White	1	
93022791-White	10	2 x end caps for both sides of row
95021800-Red	1	
95021801-Red	10	

DIMENSION	OPTICAL CODE	CCT	LUMENS	POWER
4 FT	42P35	3500	4000	34
4 FT	42P40	4000	4200	34
4 FT	52P35	3500	5000	43
4 FT	52P40	4000	5200	43
8 FT	84P35	3500	8000	66
8 FT	84P40	4000	8400	66
8 FT	A0P35	3500	9900	84
8 FT	A0P40	4000	10,400	84

DIMENSION	OPTICAL CODE	CCT	LUMENS	POWER
4 FT	65840	4000	6500	54
4 FT	85840	4000	8500	66
4 FT	A1840	4000	10300	84
4 FT	A2840	4000	11750	96
8 FT	A3840	4000	13000	104
8 FT	A7840	4000	17000	136
8 FT	B1840	4000	20600	168
8 FT	B4840	4000	23500	192

\*NOTE:  
 - 5W increment for 347V & EL option  
 - CRI = 90+  
 Reveal® TriGain™

\*NOTE:  
 - Lumen Multiplier = 0.94 for CCT = 3000K  
 - Lumen Multiplier = 0.97 for CCT = 3500K  
 - Lumen Multiplier = 1.02 for CCT = 5000K  
 - 5 Watt increment for 347V & EL option  
 - CRI = 83

**current**  
 powered by GE

# Photometric Data: IS18 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

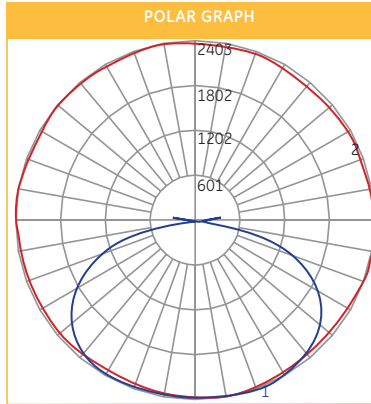
ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	227.53
10-20	666.91
20-30	1044.13
30-40	1331.00
40-50	1491.13
50-60	1477.78
60-70	1252.06
70-80	787.23
80-90	207.36
90-100	67.52
100-110	29.05
110-120	9.49
120-130	2.05
130-140	1.79
140-150	1.76
150-160	1.62
160-170	1.14
170-180	0.43

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



[www.currentbyge.com](http://www.currentbyge.com)

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