

## LUS Series

Ultra Suspended with replaceable light engine

Current's Lumination LED fixtures with TriGain® Technology—**LUS Series Suspended** fixtures are designed to offer lighting designers the efficacy of 80 CRI. With R9>50, these fixtures optimally display objects like produce, fabric, skintones and artwork all - with high LPW, reducing maintenance & operating costs. All fixtures are available with Daintree's complete portfolio of wireless control options. Daintree One & Daintree EZ Connect offer the ability to upgrade disconnected fixtures into a complete enterprise based energy management solution.

### CONSTRUCTION

**Heatsink:** Fully recyclable heatsink

**Paint:** White, Black, Silver, Red

**Weight:** <15lb

### OPTICAL SYSTEM

**Lumens:** 4,200–24,000

**Distribution:** Aisle, Wide, Very Wide, Wall Wash, Uplight

**Efficacy:** 125–165LPW

**CCT:** 3000K, 3500K, 4000K, 5000K

**CRI:** 83, 90 TriGain®

**Color Consistency:** 4 Step MacAdam Ellipse

### CONTROLS

**Dimming:** Standard 0–10VDC, 5%

**Controls:** High-end trim, occupancy and ambient light detection with dimming available. Wireless Daintree® options available.

### LUMEN MAINTENANCE

L70 @ 100,000 hours

L70

### LUMEN AMBIENT TEMPERATURE

TYPE	TEMPERATURE RATE
OPERATING TEMPERATURE	-10°C to 35°C
STORAGE TEMPERATURE	-40°C to +70°C

### ELECTRICAL

**Input Voltage:** 120–277V, 347V

**System Input Power:** 30–192W

**Wattage Range:** 30–171W

**Input Frequency:** 50/60Hz

**Power Factor (PF)\*:** >0.9\*

**Total Harmonic Distortion (THD)\*:** <20%\* *Except for the following fixture type: [C4][I4] & option [HE] @ 277VAC only.*

**Transient Protection:** 100 kHz Ring Wave, 2.5 kV Level

**LED Driver Type:**

- Class 1 driver
- 4Ft (4200–6250lm) & 8 FT (8400–12500lm), Class 2, Replaceable, High Efficiency LED Driver Rated for 50,000 hours (When used within operating conditions.)

**Output Frequency/ Flicker Rate:** NEMA 77

\* PF and THD may vary with options

### MOUNTING & ADDITIONAL FEATURES

- **Mounting Options:** Ceiling, Perimeter, Surface, Suspended
- **Optional Emergency Battery:** IOTA Engineering ILB-SLHE-10 emergency battery back-up system.

### DESIGN LIFE & WARRANTY

- **Rated Life:**
  - L70 @ 90,000 hours for Trigain® only
  - L85 @ 75,000 hours
- **High Temperature High Humidity:** 60°C / 90% (non-condensing)
- **Safety:** UL/cUL Listed
- **Ratings:** IP20, IK02
- **Electronic Vibration Testing:** Multi Axis, Random Vibration Profile: 2–2000 Hz, 5Gs on electronics
- **Audible Noise:** Per 29CFR 1910 sub part G: <24 dba (1 foot)
- **Current's Limited 5-year Warranty:** Please see website.



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

## Ordering Number Logic

LUS		A								CS	
FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	NOMINAL LUMEN	DISTRIBUTION	CRI	CCT	CONTROLS	MOUNTING	FINISH	OPTIONS
LUS = Lumination Ultra Suspended	C4 <sup>1</sup> = 4 ft Continuous	A = Replaceable Light Engine	0 = 120-277 VAC D <sup>2</sup> = 347 VAC VQ Only	<b>4 ft Only</b>	A1 = Aisle	T <sup>4</sup> = Trigain® 8 = 83 CRI	30 = 3000K	VQ = 0-10V	CS = (See accessories page below for further accessory/ mounting options which have to be ordered separately) <i>Mounting brackets come included with each fixture</i>	WHITE = White BLCK = Black SLVR = Silver REDE = Red	BC <sup>8</sup> = Branch Circuit EL <sup>9</sup> = Emergency Light Fixture HE <sup>10</sup> = High Efficiency P10 <sup>11,14</sup> = 10ft Power Cord P20 <sup>11,14</sup> = 20ft Power Cord PCS <sup>12</sup> = Power cord sample with 120Vac R10 <sup>15</sup> = RELOC 277V 10ft 3C R15 <sup>15</sup> = RELOC 277V 15ft 3C S <sup>13</sup> = Single Pack <i>Multiple 'OPTIONS' choices must be entered in alphabetic order</i>
	C8 <sup>1</sup> = 8 ft Continuous			<b>42 = 4200</b> <b>52 = 5200</b> <b>62 = 6250</b> <b>65 = 6500</b> <b>85 = 8500</b>	W1 = Wide Wash V1 <sup>3</sup> = Very Wide		35 = 3500K 40 = 4000K 50 = 5000K	S1 <sup>5</sup> = On/Off Occ. Sensor S2 <sup>5</sup> = 0-10 V, On/Off Occ. & Daylight Harvesting Sensor T1 <sup>6,7</sup> = Daintree® One w/ fixture integrated sensor, factory programmed preset TQ <sup>6,7</sup> = ZigBee Enabled TS <sup>6,7</sup> = ZigBee Enabled with Daintree WFA TT <sup>6,7</sup> = Daintree® EZ Connect Wireless w/fixture integrated sensor TZ <sup>6,7</sup> = Daintree® Enterprise Wireless w/ fixture integrated sensor			
	I4 = 4 ft Independent I8 = 8 ft Independent			<b>8 ft Only</b> 84 = 8400 A0 = 10400 A2 = 12500 A3 = 13000 A7 = 17000 B1 <sup>3</sup> = 21000 B4 <sup>3</sup> = 24000 <i>See below tables</i>							

**ORDERING NOTES:**

1. Starter kit required (see accessory page below).
2. 347V only available with VQ control. Not available with B4, B1
3. Recommended for retail environment.
4. Trigain® only available with:
  - CCT: [35] [40] only
  - Lumens: 4 Feet [42] [52], 8 Feet [84] [A0]
5. Only for height > 10 ft. Must order programming remote (197634) separately.
6. Only available with:
  - Voltage: [0] only
  - Lumens: 4 Feet [42] [52] [62] [65] [85], 8 Feet [84] [A0] [A3] [A7]

7. 11' mounting height limitation.
8. Only available with 'C4' & 'C8' fixture type.
9. Only available for Lumen code 4ft - [42], [52] & [62], 8ft - [84], [A0] & [A2]. Only available for voltage "0" (120/277). Only available with controls "VQ". Not compatible with option "HE".
10. Up to 165 LPW fixture for CRI = 8 and lumen codes [42, 52, 84, A0]. Only available in voltage [0].
11. White cord for 'WHITE' and black cord for 'BLCK', 'SLVR' or 'REDE' finishes.
12. Only available with 'I4' & 'I8' fixture type. Not compatible with BC & EL.
13. Must be applied for orders of 10pc or less. Single Pack requires for fixture type "I4" or "I8" using the EL Option Code
14. No RELOC, No EMBB
15. Available with Independent fixture and only compatible with 277VAC RELOC installation

ORDERING INFORMATION: NOMINAL LUMENS						
LENGTH	LUMEN CODE	CRI CODE	CCT CODE	LUMENS	POWER	LPW
4 ft Only	42	T	40	4200	30	140
	52	T	40	5200	37	141
8 ft Only	84	T	40	8400	58	145
	A0	T	40	10400	73	142

- NOTE:**
- Reveal® TriGain®
  - Lumen Multiplier = 1.00 for CCT = 3500K
  - CRI = 90+
  - 5 Watt increment for EL option
  - 2 watt increment for T1, TT, TZ, TQ, TS option

HIGH EFFICIENCY (HE) OPTION					
LUMEN CODE	CRI CODE	CCT CODE	LUMENS	POWER	LPW
42	8	40	4200	27	156
52	8	40	5200	35	149
84	8	40	8400	52	162
A0	8	40	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] for 4 ft., [84] & [A0] for 8 ft.

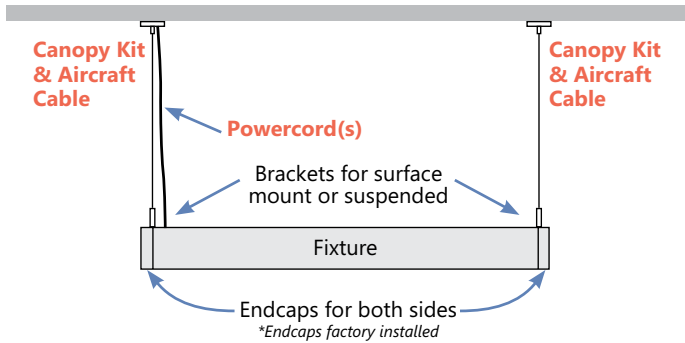
DISTRIBUTION	% UPLIGHT
A1	7%
A1 with reflector wings option	2%
W1 (wide)	13%
W1 with reflector wings option	4%
V1 (very wide)	18%
V1 with reflector wings option	6%

\* Sold as accessories and field installed

LENGTH	LUMEN CODE	CRI CODE	CCT CODE	LUMENS	POWER	LPW
4 ft	42	8	40	4200	30	140
	52	8	40	5200	37	141
	62	8	40	6250	44	142
	65	8	40	6500	43	151
	85	8	40	8500	57	149
	A1	8	40	11000	80	138
8 ft	A2	8	40	12000	88	136
	84	8	40	8400	58	145
	A0	8	40	10400	73	142
	A2	8	40	12500	90	139
	A3	8	40	13000	85	153
	A7	8	40	17000	113	150
	B1	8	40	21000	146	144
	B4	8	40	24000	171	140

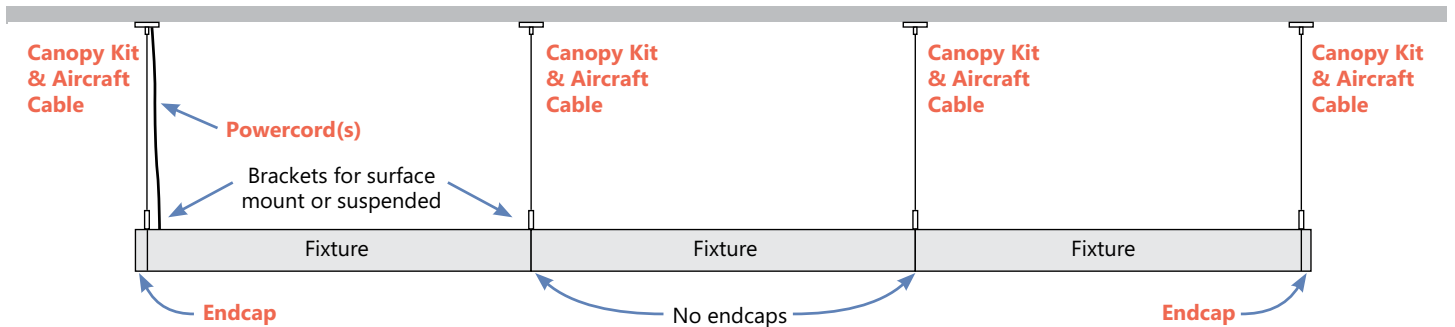
- NOTE:**
- Lumen Multiplier = 0.97 for CCT = 3500K
  - Lumen Multiplier = 1.02 for CCT = 5000K
  - CRI = 83
  - Wall Wash lumen multiplier = 0.9
  - 5 Watt increment for EL option
  - 2 watt increment for T1, TT, TZ, TQ, TS option

### INDEPENDENT Factory Installed Starter Kit



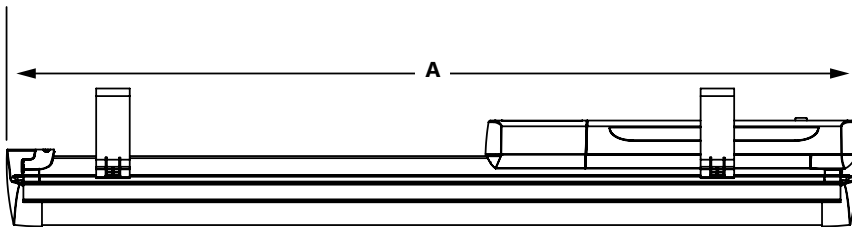
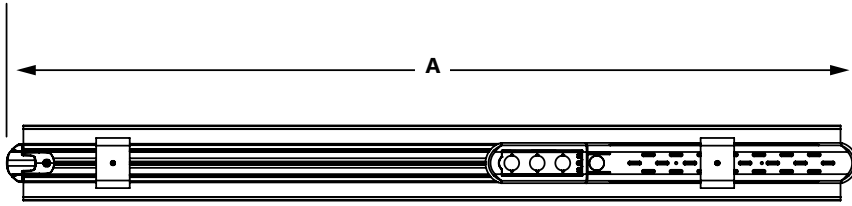
**RED** indicates items that must be ordered as options or accessories.

### CONTINUOUS RUN Field Installed is one Starter Kit per run, ordered separately

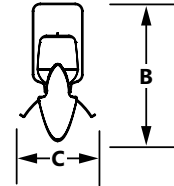


**RED** indicates items that must be ordered as options or accessories.  
The starter, when suspended, is normally the only fixture in the row with (2) suspension hangers.  
The rest of the run may be suspended from a single hanger.

## PRODUCT DIMENSIONS



MAXIMUM RUN LENGTH PER 1 POWER DROP				
Supply Voltage	8ft Lumen Code			
	[42][84]	[52][A0] [62][A2]	[65][85] [A3][A7]	[A1][A2] [B1][B4]
120V	192'	160'	80'	60'
277V or 347V	400'	320'	188'	132'



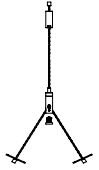



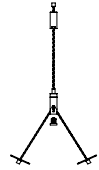
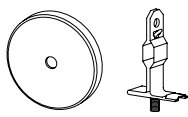
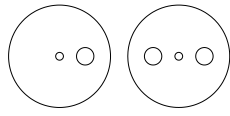
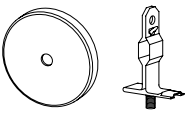
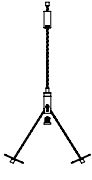
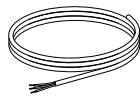



Standard Fixtures, A	Emergency Light Option A	Integrated Sensors, A	Height, B	Width, C
4 ft–49 in	4 ft–58 in	4 ft–57 in	8"	4.4"
8 ft–97 in	8 ft–108 in	8 ft–105 in		

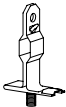
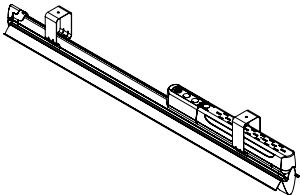
## INSTALLATION

- When ordering LUS Series LED Luminaires, 2 mounting brackets are included for each Independent fixture, and 1 bracket is included for each Continuous run fixture.
- Additional mounting brackets can be ordered if needed, depending upon mounting and spacing of application.

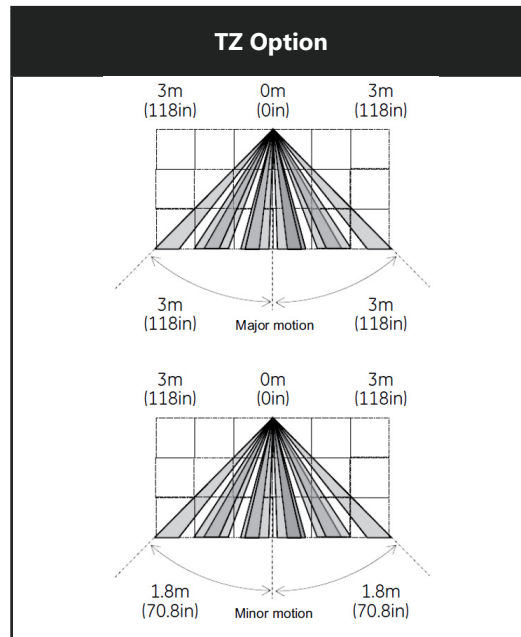
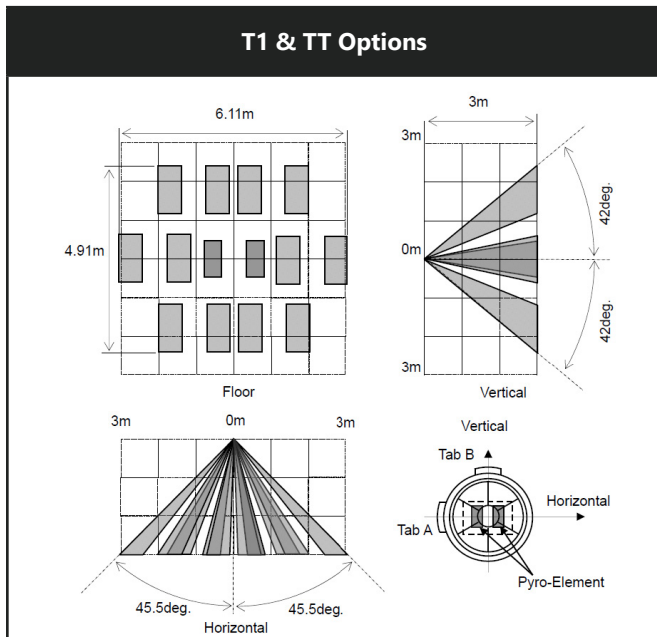
### ACCESSORIES

MOUNTING/ACCESSORY OPTIONS		PRODUCT CODE
SAMPLE SKU: LUSI4A042V1T40VQCSWHTESPCS		93073940
<p><b>POWER CORD KIT</b> <b>Options</b> Comes with:</p> <ul style="list-style-type: none"> <li>• 1x Power Feed Cable</li> <li>• 1x Strain Relief</li> </ul>	 <p><b>Power Feed Cable</b> (4 cond; includes black, white, green and red (for additional circuit))</p>  <p><b>Dimming Feed Cable</b> (2 cond; includes purple and gray)</p> <p><small>**Power and Dimming Feed Cables are #14 gauge 600V rated</small></p>	<p><b>10 FT KIT</b> 93083221: BLK 93083222: WHT</p> <p><b>20 FT KIT</b> 93083223: BLK 93083224: WHT</p>
<p><b>SUSPENDE KITS</b> <b>Mounting Open/Unfinished Ceiling</b> Comes with:</p> <ul style="list-style-type: none"> <li>• 2x Aircraft Cables</li> <li>• 1x Strain Relief</li> </ul>	 <p><b>Mounting Cables</b></p>	<p><b>10 FT KIT</b> 93035285: 10' Kit</p> <p><b>20 FT KIT</b> 93116031: 20' Kit</p>
<p><b>SUSPENDE KITS</b> <b>Mounting + Power Open /Unfinished Ceiling</b> Comes with:</p> <ul style="list-style-type: none"> <li>• 2x Aircraft Cables</li> <li>• 1x Power Feed Cable</li> </ul>	 <p><b>Mounting Cables</b></p>  <p><b>Power Feed Cable</b> (4 cond; includes black, white, green and red (for additional circuit))</p>  <p><b>Dimming Feed Cable</b> (2 cond; includes purple and gray)</p> <p><small>**Power and Dimming Feed Cables are #14 gauge 600V rated</small></p>	<p><b>10 FT KIT</b> 93122346: WHT with Dimming 93122348: BLK with Dimming 93115897: WHT No Dimming 93115899: BLK No Dimming</p> <p><b>20 FT KIT</b> 93122347: WHT with Dimming 93122349: BLK with Dimming 93115898: WHT No Dimming 93115900: BLK No Dimming</p>
<p><b>SUSPENDE KITS</b> <b>Mounting Finished Ceiling</b> Comes with:</p> <ul style="list-style-type: none"> <li>• 2x Aircraft Cables</li> <li>• 2x Upper Mounting Kit <ul style="list-style-type: none"> <li>◦ 2" canopy Cover</li> <li>◦ T-Bar Clips</li> </ul> </li> </ul>	 <p><b>Mounting Cables</b></p>  <p><b>Upper Mounting Kit</b></p>	<p><b>10 FT KIT</b> 93115708: WHT Canopy 93115710: BLK Canopy</p> <p><b>20 FT KIT</b> 93115709: WHT Canopy 93115711: BLK Canopy</p>
<p><b>SUSPENDE KITS</b> <b>Mounting + Power Finished Ceiling</b> Comes with:</p> <ul style="list-style-type: none"> <li>• 2x Aircraft Cables</li> <li>• 1x Power Feed Cable</li> <li>• 1x Canopy Kit <ul style="list-style-type: none"> <li>◦ 2 Cord Power Drop Canopy Cover</li> <li>◦ 1 Cord Power Drop Canopy Cover</li> <li>◦ Canopy Cover Strain relief (2x)</li> <li>◦ Canopy Cover Hardware kit</li> </ul> </li> <li>• 2x Upper Mounting Kit <ul style="list-style-type: none"> <li>◦ 2" canopy Cover</li> <li>◦ T-Bar Clips</li> </ul> </li> </ul>	 <p><b>Canopy Kit</b></p>  <p><b>Upper Mounting Kit</b></p>  <p><b>Mounting Cables</b></p>  <p><b>Power Feed Cable</b> (4 cond; includes black, white, green and red (for additional circuit))</p>  <p><b>Dimming Feed Cable</b> (2 cond; includes purple and gray)</p> <p><small>**Power and Dimming Feed Cables are #14 gauge 600V rated</small></p>	<p><b>10 FT KIT</b> 93122350: WHT with Dimming 93122352: BLK with Dimming 93115847: WHT No Dimming 93115849: BLK No Dimming</p> <p><b>20 FT KIT</b> 93122351: WHT with Dimming 93122353: BLK with Dimming 93115848: WHT No Dimming 93115850: BLK No Dimming</p>

### ADDITIONAL ACCESSORIES

MOUNTING/ACCESSORY OPTIONS		PRODUCT CODE
<p><b>SUSPENDED KITS</b>  <b>Direct Mounting</b>  <b>Open/Unfinished Ceiling</b>                      Comes with:                      • 2x T-Grip Clips + Bolts</p>	 <p><b>T-Grid Clip + Bolt</b></p>	<p><b>T-GRID CLIP + BOLT</b>                      93126294</p>
<p><b>Starter Kit (1 row)</b>                      Comes with:                      • 2x Endcaps                      • 1x Starter Harness                      • 1x Knock-out Plate                      • 1x Additional Suspension Bracket</p>		<p><b>END CAPS COLORS</b>                      93046694: WHT End Caps                      93046700: SLV End Caps                      93046697: BLK End Caps                      93046703: RED End Caps</p>
<p><b>Starter Kit (10 rows)</b>                      Comes with:                      • 20x Endcaps                      • 10x Starter Harness                      • 10x Knock-out Plate                      • 10x Additional Suspension Bracket</p>		<p><b>END CAPS COLORS</b>                      93046696: WHT End Caps                      93046702: SLV End Caps                      93046699: BLK End Caps                      93046705: RED End Caps</p>
<p><b>Reflector Wings</b></p>	 <p><b>Wings accommodate both sides of the fixtures</b></p>	<p><b>4 FT KIT</b>                      93046683: Wing pack of 1                      93046685: Wing pack of 10</p> <p><b>8 FT KIT</b>                      93046680: Wing pack of 1                      93046682: Wing pack of 10</p>

### SENSOR COVERAGE PATTERN



## LUSI8 SERIES

LUS-X8-A-X-84-A1-T-40-VQ-XX-WHTE

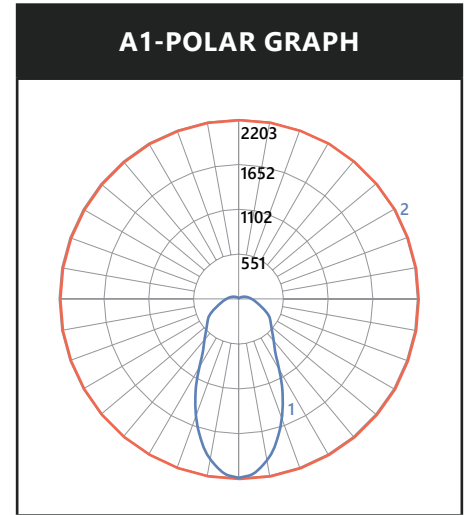
ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	204.81
10-20	548.60
20-30	713.08
30-40	672.58
40-50	554.13
50-60	433.62
60-70	335.33
70-80	251.01
80-90	178.70
90-100	119.10
100-110	79.61
110-120	53.98
120-130	33.22
130-140	16.41
140-150	5.99
150-160	1.51
160-170	0.28
170-180	0.05

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	117	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93	
1	107	102	98	94	103	99	95	92	94	90	88	88	86	84	82	80	89	77		
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	71	68	66		
3	90	80	73	67	87	78	71	66	74	68	64	71	66	62	67	63	60	57		
4	84	72	64	58	81	71	63	57	67	61	56	64	59	54	61	56	53	50		
5	77	66	57	51	75	64	56	50	61	54	49	58	53	48	56	51	47	45		
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	51	46	42	40		
7	67	55	47	41	65	54	46	41	52	45	40	49	43	39	48	42	38	36		
8	63	51	43	37	61	50	42	37	48	41	36	46	40	36	44	39	35	33		
9	59	47	39	34	58	46	39	34	44	38	33	43	37	33	41	36	32	30		
10	56	44	36	31	54	43	36	31	41	35	31	40	34	30	39	33	30	28		

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-30	1466.48	N.A.	34.9
0-40	2139.06		50.9
0-60	3126.81		74.4
0-90	3891.84		92.6
90-120	252.68		6.0
90-130	285.9		6.8
90-150	308.29		7.3
90-180	310.13		7.4
0-180	4201.98		100

NOTE: Floor Cavity Reflectance: 20%

CANDLEPOWER SUMMARY			
Angle	0°	45°	90°
45°	12534	7455	6798
55°	5703	4605	4872
65°	2005	3471	3474
75°	494	2818	2327
85°	83	2101	1547



LUS-X8-A-X-84-W1-T-40-VQ-XX-WHTE

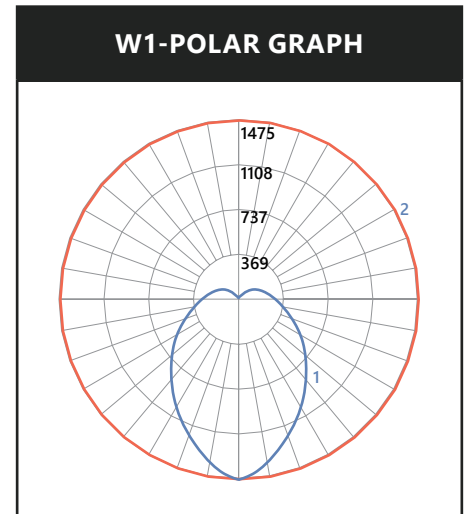
ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	136.28
10-20	369.66
20-30	523.74
30-40	584.29
40-50	562.97
50-60	494.59
60-70	409.82
70-80	326.15
80-90	252.39
90-100	192.64
100-110	142.74
110-120	96.04
120-130	59.04
130-140	32.13
140-150	13.59
150-160	4.2
160-170	1.01
170-180	0.2

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87		
1	104	99	94	89	100	95	91	87	88	85	82	82	79	77	77	74	72	69		
2	94	86	78	72	91	83	76	70	77	72	67	72	67	63	67	63	60	57		
3	86	75	67	60	82	73	65	59	68	61	56	63	58	53	59	55	51	48		
4	79	67	58	51	76	65	56	50	60	53	48	57	51	46	53	48	44	41		
5	73	60	51	44	70	58	50	43	54	47	42	51	44	40	48	43	38	36		
6	67	54	45	39	64	52	44	38	49	42	37	46	40	35	44	38	34	32		
7	62	49	40	34	60	48	39	34	45	38	33	42	36	31	40	35	30	28		
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	31	27	25		
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23		
10	51	38	30	25	49	37	30	25	35	29	24	34	28	23	32	27	23	21		

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-30	1029.68	N.A.	24.5
0-40	1613.98		38.4
0-60	2671.53		63.6
0-90	3659.88		87.1
90-120	431.42		10.3
90-130	490.46		11.7
90-150	536.18		12.8
90-180	541.59		12.9
0-180	4201.47		100

NOTE: Floor Cavity Reflectance: 20%

CANDLEPOWER SUMMARY			
Angle	0°	45°	90°
45°	9423	6110	5918
55°	6789	5017	4955
65°	4263	4236	4201
75°	2412	3777	3566
85°	705	3493	3181



**LUSI8 SERIES**

LUS-X8-A-X-84-A1-T-40-VQ-XX-WHTE

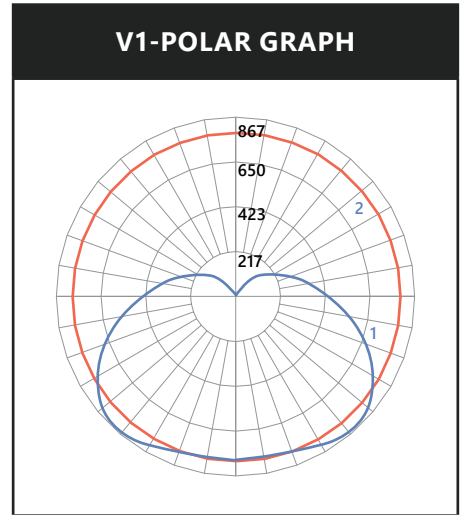
ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	75.88
10-20	220.01
20-30	345.05
30-40	446.03
40-50	511.44
50-60	530.14
60-70	501.80
70-80	437.37
80-90	355.99
90-100	274.84
100-110	201.58
110-120	138.56
120-130	86.85
130-140	47.22
140-150	20.07
150-160	5.91
160-170	1.36
170-180	.25

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	82		
1	101	95	89	84	96	90	85	81	83	79	75	76	72	69	69	66	64	60		
2	90	80	72	65	86	77	69	63	70	64	59	64	59	55	58	54	51	47		
3	81	69	60	53	77	66	58	51	61	54	48	55	50	45	50	46	42	38		
4	74	61	51	44	70	58	49	42	53	46	40	49	42	37	44	39	35	32		
5	68	54	44	37	64	51	43	36	47	40	34	43	37	32	40	34	30	27		
6	62	48	38	32	59	46	37	31	42	35	29	39	32	27	36	30	26	23		
7	57	43	34	28	55	42	33	27	38	31	25	35	29	24	32	27	22	20		
8	53	39	30	24	51	38	29	24	35	28	22	32	26	21	30	24	20	18		
9	50	36	27	22	47	34	26	21	32	25	20	30	23	19	27	22	18	16		
10	46	33	25	19	44	32	24	19	29	23	18	27	21	17	25	20	16	14		

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-30	640.95	N.A.	15.3
0-40	1086.98		25.9
0-60	2128.56		50.7
0-90	3423.72		81.5
90-120	614.98		14.6
90-130	701.83		16.7
90-150	769.12		18.3
90-180	776.64		18.5
0-180	4200.36		100

NOTE: Floor Cavity Reflectance: 20%

CANDLEPOWER SUMMARY			
Angle	0°	45°	90°
45°	6030	5726	6556
55°	5186	5444	6314
65°	2833	4832	5910
75°	2833	4832	5432
85°	1188	4624	5018



**LUSI8 SERIES**

LUS-X8-A-X-84-WW-T-40-VQ-XX-WHTE

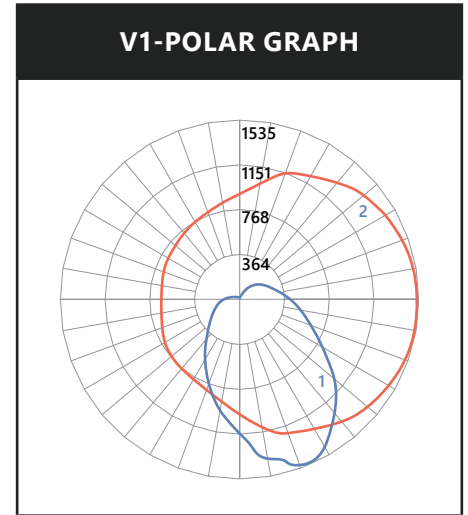
ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	108.61
10-20	314.58
20-30	477.04
30-40	556.36
40-50	552.14
50-60	490.57
60-70	403.64
70-80	318.16
80-90	243.64
90-100	184.01
100-110	135.55
110-120	95.22
120-130	62.01
130-140	35.34
140-150	16.42
150-160	5.49
160-170	1.10
170-180	0.14

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	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	87		
1	104	98	93	89	100	95	90	86	88	84	81	82	79	76	76	74	72	68		
2	94	85	78	71	90	82	75	70	76	71	66	71	66	62	66	62	59	56		
3	86	74	66	59	82	72	64	58	67	60	55	62	57	52	58	54	50	47		
4	78	66	57	50	75	64	55	49	59	52	47	55	50	45	52	47	43	40		
5	72	59	50	43	69	57	48	42	53	46	40	50	44	39	47	41	37	35		
6	66	53	44	37	64	51	43	37	48	41	35	45	39	34	42	37	33	30		
7	62	48	39	33	59	47	38	32	44	37	31	41	35	30	39	33	29	27		
8	57	44	35	29	55	42	34	29	40	33	28	38	32	27	36	30	26	24		
9	54	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22		
10	50	37	29	24	48	36	29	24	34	27	23	32	26	22	31	25	21	20		

NOTE: Floor Cavity Reflectance: 20%

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20	413.19	N.A.	10.60
0-30	900.24		22.50
0-40	1456.59		36.40
0-60	2499.29		62.50
0-80	3221.09		80.50
0-90	3464.73		86.60
10-90	3356.12		83.90
20-40	1033.40		25.80
20-50	1585.54		39.60
40-70	1446.34		36.20
60-80	721.80		18.00
70-80	318.16		8.00
80-90	243.64		6.10
90-110	319.56		8.00
90-120	414.78		10.40
90-130	476.79		11.90
90-150	528.55		13.20
90-180	535.27		13.40
110-180	215.71	5.40	
0-180	4000.00	100.00	

CANDLEPOWER SUMMARY			
Angle	0°	45°	90°
45°	8973	8993	7417
55°	7351	7336	5744
65°	6061	6021	4113
75°	5315	5187	2544
85°	4811	4812	698


**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 formula:

$$\text{Emergency Mode Lumens} = P \times \text{LPW}$$

"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/ILBCPManual.pdf](http://www.iotaengineering.com/ILB/ILBCPManual.pdf)
- For more information and access to all of our resources, including our design tool visit: [LED.com](http://LED.com)