

Sense 178

Pendant

WISDOM LIGHT

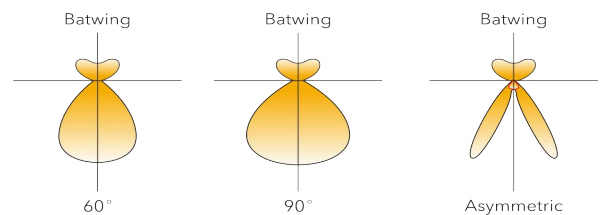


The Sense 178 product line embodies a deliberate, low-glare control system. Its standout feature is the dual-level optical control, providing exceptional visual comfort through both indirect and direct lighting distributions, complete with a built-in programmer. Offering versatility, it comes in sizes of 2', 4', and 8', and supports continuous runs, boasting a diverse array of independently controllable direct/indirect distribution options. Sense 178 promises to enhance the user experience significantly while maintaining top-notch energy efficiency.

PRODUCT FEATURES

- Minimalist Design: Seamless continuous runs or individual fixtures.
- Selectable Options: 3 CCT & 3 wattage choices via dip switch.
- High Efficiency: 125 lm/W, CRI 80/90 available.
- Dimming Control: 0-10V continuous dimming, standard compatibility.
- Durable & Versatile: Aluminum housing, suspended mount, damp location rated.
- Versatile Mounting: Available as a suspended fixture with aircraft cable.
- Durable Construction: Extruded aluminum housing with polyester powder coat.
- Long Lifespan: L90 at 61,000 hrs, L70 at 237,000 hrs.

BEAM ANGLES



Model	Length	Watt Select	Output Lumen	Nominal Efficacy	CCT Select	Voltage	Dimming	CRI
WL-13LSUD4FT 50WE1D1HV(XXK-XXK-XXK)-YY-ZZ	4FT	36/48/60W	6120Lm/8160Lm/10200Lm	170lm/w	3000K 3500K 4000K	220-240V	0-10V (1-100%)	>80
WL-13LSUD8FT 120WE1D1HV(XXK-XXK-XXK)-YY-ZZ	8FT	72/96/120W	12240Lm/16320Lm/20400Lm					

Order Guide

Sample Model#: **Dense-178-13LSUD4FT50WE1D1HV(XXK-XXK-XXK)-YY-ZZ**

Dense 178	WL-13LSD								
Luminaire ID	Mode	Length	Wattage	Series	Dimming	Power Voltage	CCT	Finish	Installation mode
Dense 178	WL-13LSUD	4FT 8FT	50W= 30W/40W/50W Select 120W= 72W/96W/120W Select	E1= 3CCT Select 3 Watt Select (Internal dip-switch) 3 UP & DOWN PROPORTION (1 Output driver)	D1= 0-10V (1%-100%)	HV= 120-347V	(XXK-XXK-XXK)= 3000K/3500K/4000K CCT Select	YY= BK=Black WH=White SA=Silver CUS=Custom	ZZ= SP=Suspended air craft cable

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Product Specifications

Construction

- Extruded aluminum housing
- Electrostatically applied polyester powder coat paint
- Standard 4'8' fixtures available

Light Engine

- Standard 3 CCT Selectable options, 3000K/3500K/4000K
- CRI 80CRI, SDCM<5
- 3 Up & Down Proportion
- Up 10%, Down 90%/Up 20%, Down 80%/Up 30%, Down 70%

LED Drivers

- LED system coupled with electrical driver
- Traditional electronic drivers are available for 120- 277V/ 120-347V applications

Controls and Integrated Sensors

- Equipped standard with a 0-10V continuous dimming driver. Compatible with most standard dimming devices

Mounting

- Suspended



Lengths

- Available in 4ft, 8ft

Lumen Maintenance

- 90% (L90) of initial light output at 61,000+ hrs
- 70% (L70) of initial light output at 237,000+ hrs
- Derived from TM-21 standard @25°C for worst case operating conditions

Electrical

- Dimming provided as standard
- Dimming wires capped with wire-nuts for nondimming applications

Max number after interconnection

- 4FT= 7 units 8FT= 4 units
- Total connected load is <420W at 120V & <960W at 277V & <1200W at 347V

Distribution

- Upper batwing distribution, down light with 50°/80°/25x70°/ Asymmetric/Wall wash Optic lens

Weight

- Approximately 1.1 lbs per foot, Weight may vary depending on mounting and additional options selected

Environment

- Suited for damp location installations.
- Operating temperature range: -25°C to 50°C

Approvals

- ETL - listed for damp locations
- Tested to IESNA LM-79 and LM-80

Warranty

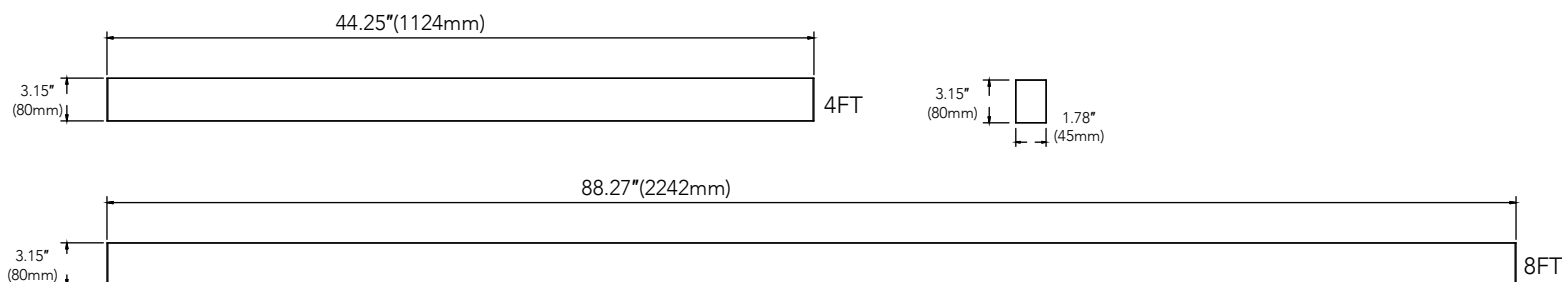
- Five year warranty standard. Optional ten year warranty available.

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Dimension

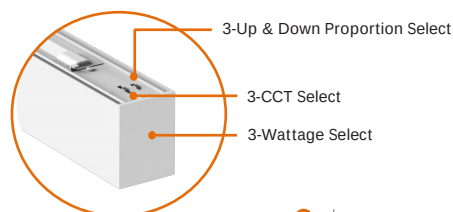


MODEL	Length	Width	Height
WL-13LSUD4FT50WB1D1EV(XXK-XXK-XXK)-YY-ZZ	44.25"(1124mm)	1.78" (45mm)	3.15" (80mm)
WL-13LSD8FT100WB1D1EV(XXK-XXK-XXK)-YY-ZZ	88.27"(2242mm)	1.78" (45mm)	3.15" (80mm)

Features

EXTRUDED ALUMINUM HOUSING

- Material – Durable extruded aluminum for superior strength and heat dissipation.
- Finish – Electrostatically applied polyester powder coat for enhanced durability.
- Color Options – Available in Black (BK), White (WH), and Silver (SA).



DOWN-LIGHT FEATURES

- Multiple Beam Angles
50°, 80°, 25×70° for precise lighting control.
- Asymmetric & Wall Wash
Enhances vertical illumination for accents.
- Balanced Distribution
Uniform light, reduced glare, better comfort.

LENS

Optically optimized diffuser for glare control and uniform illumination.



UP-LIGHT FEATURES

- Customizable Up/Down Ratios
Offers 10% Up / 90% Down, 20% Up / 80% Down, and 30% Up / 70% Down, allowing flexible light balance.
- Wide Batwing Distribution
Ensures uniform ceiling illumination, reducing glare and enhancing spatial brightness.

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Accessories

Lens	Mounting Options	Canopy Finish	Other Accessories
OLS=Optic lens	SCKB=9/16 Dropceiling 5" Slim Canopy	BC=Black Canopy	73AC-5C=7'5-Core 300V Cable
		WC=White Canopy	8EM=8W Internal EM
		SC=Sliver Canopy	LBKB=Linckble bracket



LBKB=Linckble bracket



8EM=8W Internal EM



73AC-5C=7'5-Core 300V Cable

Canopy Type Power feed/None Power feed

SCKB Slim D5"*H0.3"



Non Power feed



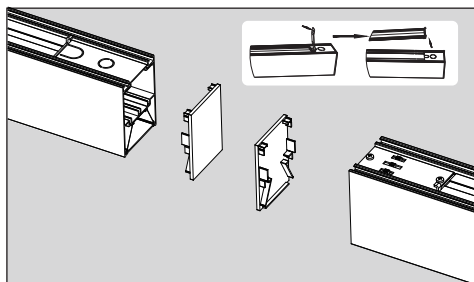
Power feed

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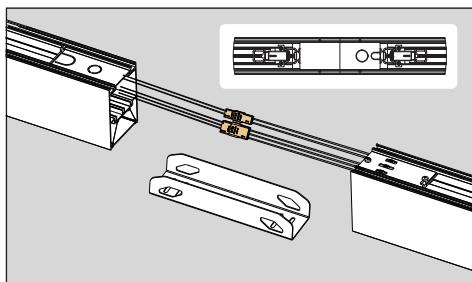
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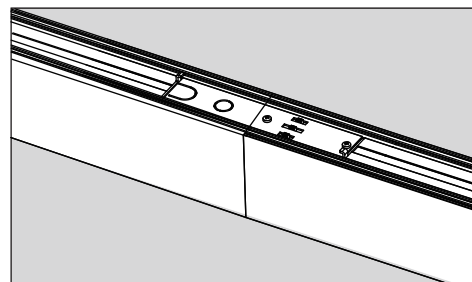
Quick linkable function



Step 1. Remove the end caps and open the upper modular with tool

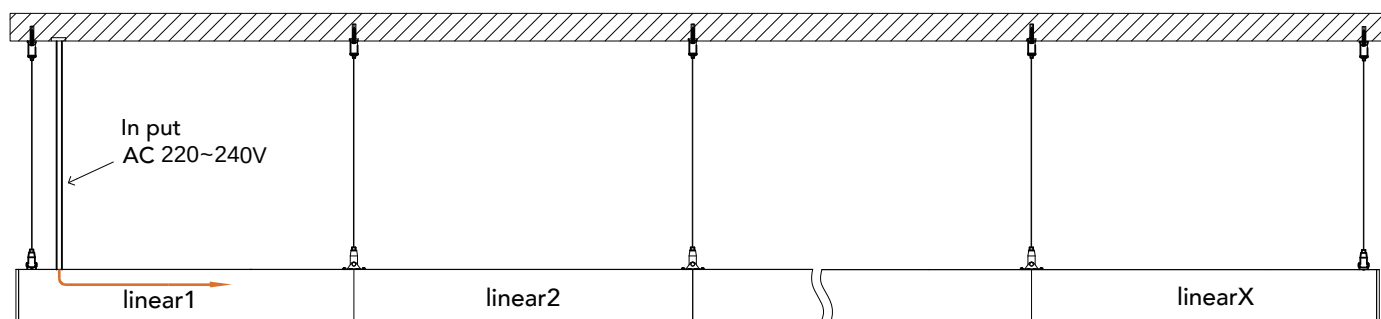


Step2.Insert splicing bracket,Connect wiring via male/female quick connectors, Slide lamp together,and fasten bracket with included buckles

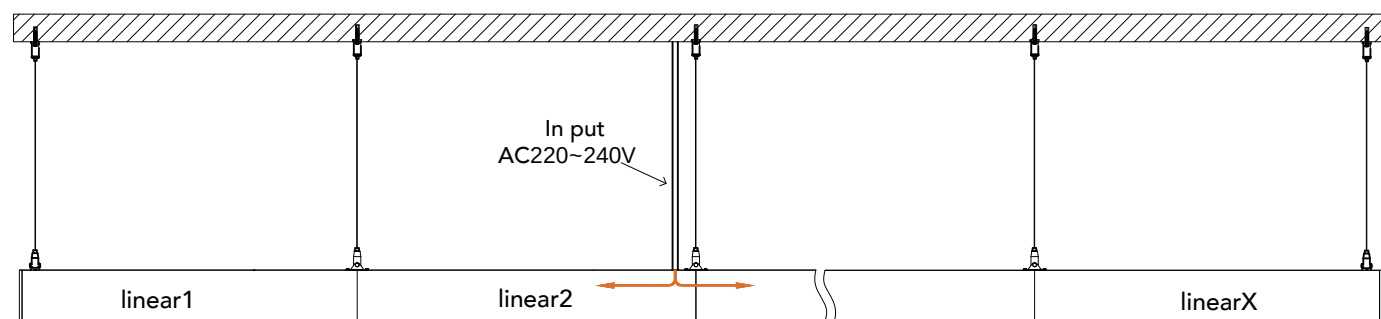


Step 3. Put the upper module assembly back together, and adjustable the aircraft cable to the target position

Single Direction



Multi-Direction



Max number after interconnection 4FT=7 units 8FT=4 units Total connected load is <420W at 220-240V

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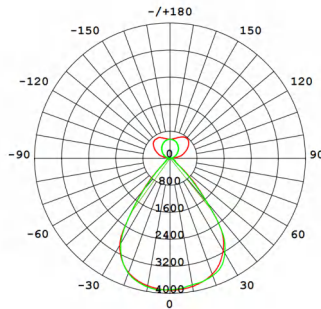
Performance

Lens	Lumen output					
	UP 10% Down 90%		UP 20% Down 80%		UP 30% Down 70%	
Up Batwing lens & Down Optic lens	1870LM/FT,15W/FT		1890LM/FT,15W/FT		1900LM/FT,15W/FT	

Above are subject to 3000K,white housing & highest Wattage . All efficacy is $\pm 5\%$ base on different CCT and lighting distributions.
For other lens, CCT, housing color etc. please check the IES file to gain

Sense 178-WL-13LSUD

Sense 178-WL-13LSUD/4FT/60W/RA80/3000K/25°x70°/Up 30%,Down 70%



AVERAGE BEAM ANGLE(50%):74.4DEG

NOMINALFLUX(lm):8211.66,NOMINAL POWER(W):60W,lmax(cd):3903,Efficay:132.87lm/W

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	3849	3809	3799	3795	3830
20	3649	3658	3692	3626	3592
30	3143	3257	3234	3230	2977
40	1688	2360	1700	2266	1259
50	425.8	805.5	362.5	671.7	252.2
60	165.6	215.0	156.2	187.0	140.6
70	95.87	94.14	87.26	81.24	63.30
80	31.11	31.95	27.61	25.80	17.72
90	21.79	7.184	3.990	5.142	2.544

DEG LUMINOUSINTENSITY:cd/klm

Zonal Lumens

γ	Φ zone	Φ total
00-10	368.6	368.6
10-20	1059	1428
20-30	1570	2998
30-40	1567	4565
40-50	814.2	5379
50-60	244.1	5623
60-70	117.5	5741
70-80	50.21	5791
80-90	14.51	5806

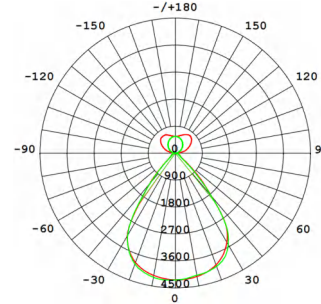
UNIT:lm/klm

LUMINANCE cd/(m2)

G(DEG)	C0/180	C90/270
85	3647	3074
80	3583	3180
75	4335	3871
70	5606	5103
65	6462	5970
60	6625	6249
55	7465	6861
50	13249	11279
45	27791	24661

Sense 178-WL-13LSUD

Sense 178-WL-13LSUD/4FT/60W/RA80/3500K/25°x70°/Up 30%,Down 70%



AVERAGE BEAM ANGLE(50%):74.3 DEG

NOMINALFLUX(lm):8686.51,NOMINAL POWER(W):60W,lmax(cd):4244,Efficay:146.98lm/W

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	4176	4143	4137	4132	4144
20	3964	3977	4017	3951	3883
30	3432	3551	3520	3507	3195
40	1862	2576	1844	2464	1326
50	480.5	892.7	393.8	730.3	269.5
60	179.8	239.0	170.7	201.8	154.2
70	104.9	103.4	95.29	88.60	67.91
80	33.73	35.08	30.15	28.08	18.87
90	21.62	7.736	4.307	5.374	2.650

DEG LUMINOUSINTENSITY:cd/klm

Zonal Lumens

γ	Φ zone	Φ total
00-10	400.8	400.8
10-20	1151	1552
20-30	1707	3259
30-40	1700	4959
40-50	885.8	5845
50-60	266.8	6112
60-70	127.9	6240
70-80	54.48	6294
80-90	15.44	6310

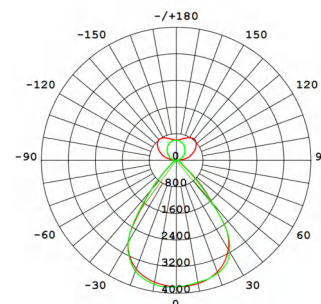
UNIT:lm/klm

LUMINANCE cd/(m2)

G(DEG)	C0/180	C90/270
85	3908	3352
80	3885	3472
75	4717	4236
70	6135	5572
65	7021	6513
60	7191	6827
55	8188	7498
50	14949	12253
45	31046	26659

Sense 178-WL-13LSUD

Sense 178-WL-13LSUD/4FT/60W/RA80/4000K/25°x70°/Up 30%,Down 70%



AVERAGE BEAM ANGLE(50%):74.3 DEG

NOMINALFLUX(lm):8296.6,NOMINAL POWER(W):60W,lmax(cd):3819,Efficay:135.12lm/W

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	3757	3727	3721	3714	3722
20	3573	3573	3611	3558	3480
30	3092	3200	3171	3150	2859
40	1679	2319	1665	2215	1168
50	439.4	811.9	353.9	655.4	242.5
60	162.6	219.0	154.6	181.0	137.8
70	94.05	93.30	86.28	79.85	61.03
80	30.02	31.34	26.94	25.14	16.80
90	22.06	6.517	3.511	4.631	2.202

DEG LUMINOUSINTENSITY:cd/klm

Zonal Lumens

γ	Φ zone	Φ total
00-10	360.5	360.5
10-20	1036	1396
20-30	1535	2932
30-40	1528	4459
40-50	797.3	5257
50-60	241.6	5498
60-70	115.5	5614
70-80	49.00	5663
80-90	13.70	5676

UNIT:lm/klm

LUMINANCE cd/(m2)

G(DEG)	C0/180	C90/270
85	3388	2968
80	3458	3103
75	4234	3816
70	5499	5045
65	6322	5908
60	6504	6182
55	7475	6770
50	13670	11010
45	28072	24097