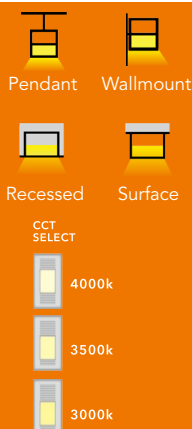
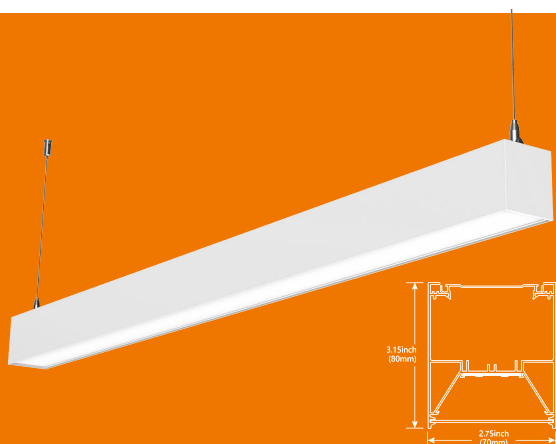


Dense 275 Series

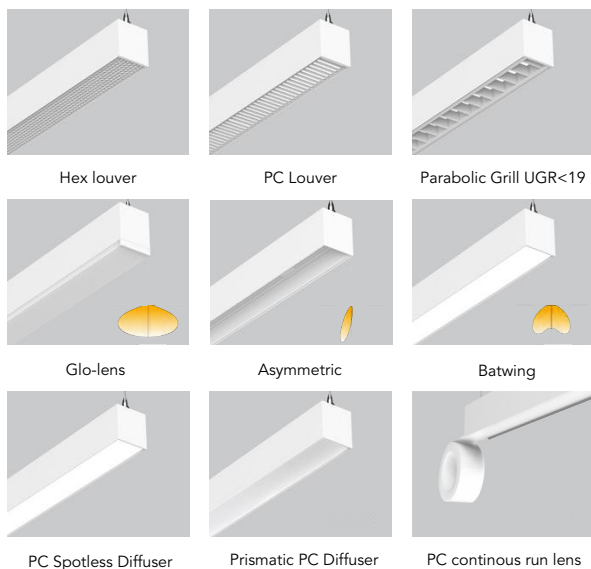
Pendant, Surface, Wall Mount, Recessed

WISDOM LIGHT



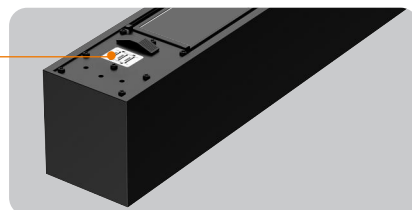
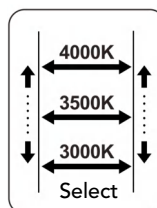
Dense 275 embodies a deliberate, low-glare control system, featuring dual-level optical control for exceptional visual comfort through and direct lighting distributions, all with a built-in programmer. It offers versatility with available lengths of 2', 3', 4', 6', and 8', and supports continuous runs, providing a wide range of independently controllable direct distribution options.

Dense 275 is designed to significantly enhance the user experience while maintaining top-notch energy efficiency.



Features

- H-shaped extruded aluminum with a 2.75" aperture, offering linear direct lighting.
- Available with individual units and seamless continuous runs.
- The modular design supports various mounting methods, including Pendant, Surface, Wall Mount, Recessed
- Provides soft, continuous light, making it an ideal architectural luminaire for commercial, hospitality, and residential interior lighting applications.



Series Dense 275	Length /Pattern	Wattage	Max Output Lumen	Nominal Efficacy	CCT Select	Input Voltage	Dimmable	CRI
			UP 0% Down 100%					
WL-2LSD 2FT20WBDHV	2'	20W	2300lm	115LM/W	3000K 3500K 4000K	AC120-347V	0-10V	Ra>80
WL-2LSD 3FT30WBDHV	3'	30W	3450lm					
WL-2LSD 4FT40WBDHV	4'	40W	4600lm					
WL-2LSD 6FT60WBDHV	6'	60W	6900lm					
WL-2LSD 8FT80WBDHV	8'	80W	9200lm					
WL-2LSDL 20WBDHV	L= L Pattern	20W	2300lm					
WL-2LSDT 30WBDHV	T= T Pattern	30W	3450lm					
WL-2LSDC 40WBDHV	C= X Pattern	40W	4600lm					
WL-2LSDL 40WBDHV	120=120° Pattern	40W	4600lm					
WL-2LSDY 60WBDHV	Y= Y Pattern	60W	6900lm					

* Remark: CRI 90 or 130lm/W are available,

Standard Color Tolerance: ≤ 5SDCM (Single CCT) , ≤ 7SDCM (Mixed CCT) ; ≤ 3SDCM or ≤ 5SDCM, are available

Product design and development is an ongoing process at Shenzhen Wisdom Light Co.,Ltd.

We reserve the right to change specifications.

Dense 275 Series

Pendant, Surface, Wall Mount, Recessed

WISDOM LIGHT

Order Guide

Sample Model#: Dense 275-WL-2LSD2FT20WBDHV(30K-35K-40K)-T-BK-SP

Dense 275	WL-2LSUD									
Luminaire ID	Series	Length/ Pattern	Wattage	Dip- Switch	Dimming	Voltage	CCT	Finish	Installation mode	Options
Dense 275 = 2.75" width	WL-LSD = Gen2 Linear Series DownLight Only	2FT — 20W 3FT — 30W 4FT — 40W 6FT — 60W 8FT — 80W L = L Pattern — 20W T = T Pattern — 30W C = X Pattern — 40W 120=120° Pattern — 40W Y = Y Pattern — 60W		B=3-CCT Select	D=0-10V D1=1% 0-10V Dimming POE= PoE Compatible DA= DALI-2 (No ETL)	UV= 120-277V HV= 120-347V	(30K-35K-40K)-T= 3000K/3500K/4000K 3CCT Select (30K-40K-50K)-T= 3000K/4000K/5000K3CCT Select	BK= Black WH= White SA= Silver CUS= Custom	SP=Suspended air craft cable SC=Suspended Canopy and aircraft cable SM=Surface Mount WM=Wall Mount RT=T-Bar Recessed RS=Spring clip Recessed	Blank=NON EM=Emergency Backup MS=Microwave Sensor PIR=PIR Sensor BM=Mesh Control PIR Sensor

Accessories

Lens	Mounting Accessories	Canopy Type	Accessories	Pattern Options
PCD = PC Spotless Diffuser(Standard)	STA = Aircraft Rope(A type)	SCKA = Canopy D5"X H0.8"	TMS=T Corner Connector	DLLS=L-Shape Connector(Lit-Pattern)
BVB = Batwing Film for down	STB = Aircraft Rope(B type)	SCKB= Slim Canopy D5"X H0.31"	LMS=L Corner Connector	DYLS=Y-Shape Connector(Lit-Pattern)
PCL = Louver	STC = Aircraft Rope(C type)	SCKC = Slim Canopy D1.7"X H0.31"	XMS=X Corner Connector	DCLS=120° L-Shape Connector (Lit-Pattern)
PAL = Parabolic Grill	STD = Aircraft Rope(D type)	Canopy Finish	LBKB = Link Bracket with Hook	DXLS=X-Shape Connector(Lit-Pattern)
PCR = Continuous run lens	SDS=Drywall Pendant mount	BC = Black	73AC-5C = 7' 5-Core 300V Cable	DTLS=T-Shape Connector(Lit-Pattern)
HEL = Hex louver	SCS=Drop ceiling Pendant mount	WC = White	76AC-5C = 7' 5-Core 600V Cable	LMS = L-Shape Connector (Non Lit-pattern)
WAL = Asymmetric lens	NPT=NPT stem Pendant	SC = Sliver	73AC-6C = 7' 6-Core 300V Cable	TMS=T-Shape connector (Non Lit-pattern)
GLL = Glo-lens	WMB=B-type wall mount		76AC-6C= 7' 6-Core 600V Cable	XMS=X-Shape Connector (Non Lit-pattern)
PPC = Prismatic PC Diffuser	WMC=C-type wall mount		LBK = Internal Linkable Cable Kits	ZMS=Z-Shape Connector (Non Lit-pattern)
BVF=UGR < 22 Film	RMC=Clips Recessed mount		CBM= Wireless Control Box	2MS=(2 Heads x 60°) Connector
	RMT=H2.14" A-Type recessed		CAC = Convert Cable	3MS=(3 Head x 60°) Connector
	RMS=H1.48" B-type recessed		AK = Acoustic Kits	4MS=(4 Head x 60°) Connector
	RML=H3.34" C-type recessed		MCD=Mesh control driver	5MS=(5 Head x 60°) Connector
	RMD=H2.6" D-Type recessed		MAC=Multi-Directional Power Harness	6MS=(6 Head x 60°) Connector
	RMM=Mud-in trimless recessed mount		8EM=8W EM Internal	
	SMA=A-Type Surface Mount			
	SMB=B-Type Surface Mount			
	RMG=Frame Type recessed			

Product design and development is an ongoing process at Shenzhen Wisdom Light Co.,Ltd.

We reserve the right to change specifications

Dense 275 Series

Pendant, Surface, Wall Mount, Recessed

WISDOM LIGHT

Product Specifications

Construction

- Precision cut housing extruded from 6063 aluminum
- PC end-caps ensure a robust and clean construction
- Nominal 2' -8' illuminated sections with various connectors for continuous runs and shapes
- Standard white, black, silver and custom powder

Light Engine

- Standard 3 CCT Select, 3000K/3500K/4000K, 5 CCT are available
- CRI: Ra≥80 or Ra ≥90
Standard Color Tolerance: ≤5SDCM (Single CCT), ≤7SDCM (Mixed CCT); ≤3SDCM or ≤5SDCM, are available.

LED Drivers

- Class II UL certified driver
- Traditional electronic drivers are available for 120- 277/347V
- Flicker free<5%, PFC>0.9, THD<20%

Controls and Integrated Sensors

- Equipped standard with a 0-10V continuous dimming driver. Compatible with most standard dimming devices
- Additional control types are available (DALI & Lutron) at an additional cost

LINKABLE FUNCTION

- Max number after interconnection
2FT= 7 units 4FT=7 units 8FT=4 units
- Total connected load is <420W at 120V & <960W at 277V & <1200W at 347V

Lengths

- Available in 2FT,3FT,4FT,6FT,8FT length .
- Additional fixture lengths are available please consult factory.

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

- 0-10V Dimming provided as standard
- Dimming wires capped with wire-nuts for nondimming applications
- Battery backup options provided
- Default battery location is internal to fixture
- Default emergency section is from 3ft to 8ft, except 2ft and patterns
- Estimated lumen output = battery wattage*min efficacy (see performance table)
- The EPC option will bypass local controls and dimming upon loss of normal power. This option is required when the fixture has both integrated sensors and emergency circuiting.

Weight

- Approximately 1.4 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
- Can be used for State of California Title 24 high efficacy luminaire
- DesignLights Consortium® Qualified and classified for DLC Standard, refer to www.designlights.org for details and listed configurations.

Warranty

- Five year warranty standard

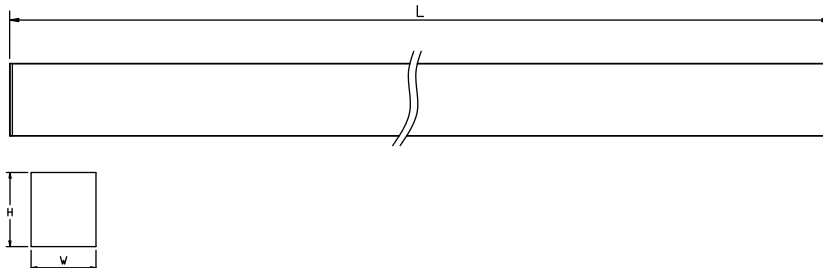
Dense 275 Series

Pendant, Surface, Wall Mount, Recessed

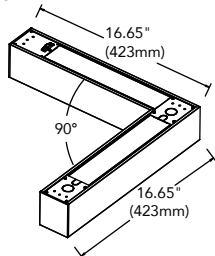
WISDOM LIGHT

Dimension

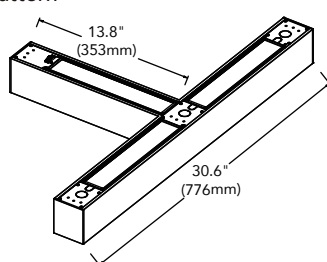
Size	L=Length	W=Width	H=Height
2'	23.85" (606mm)	2.75" (70mm)	3.15" (80mm)
3'	35.67" (906mm)		
4'	47.48" (1206mm)		
6'	71.10" (1806mm)		
8'	94.72" (2406mm)		



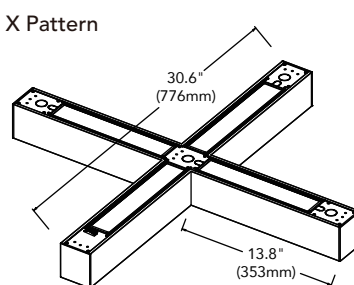
L Pattern



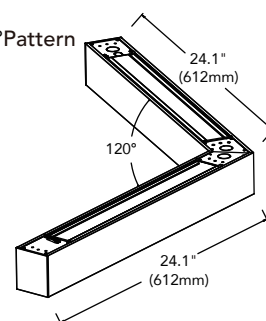
T Pattern



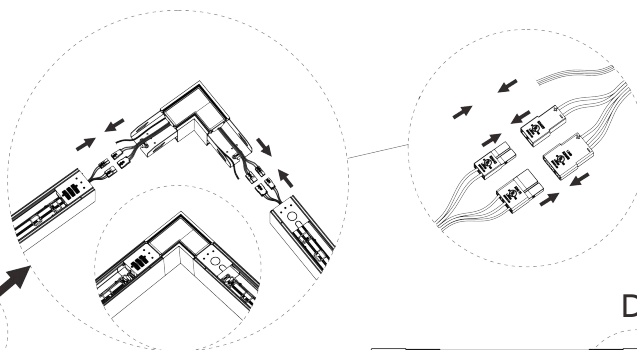
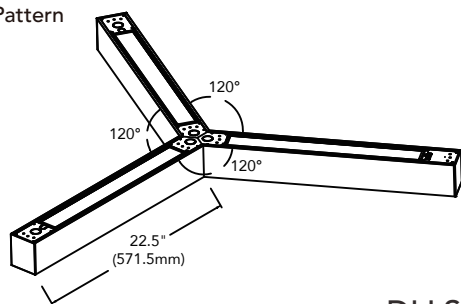
X Pattern



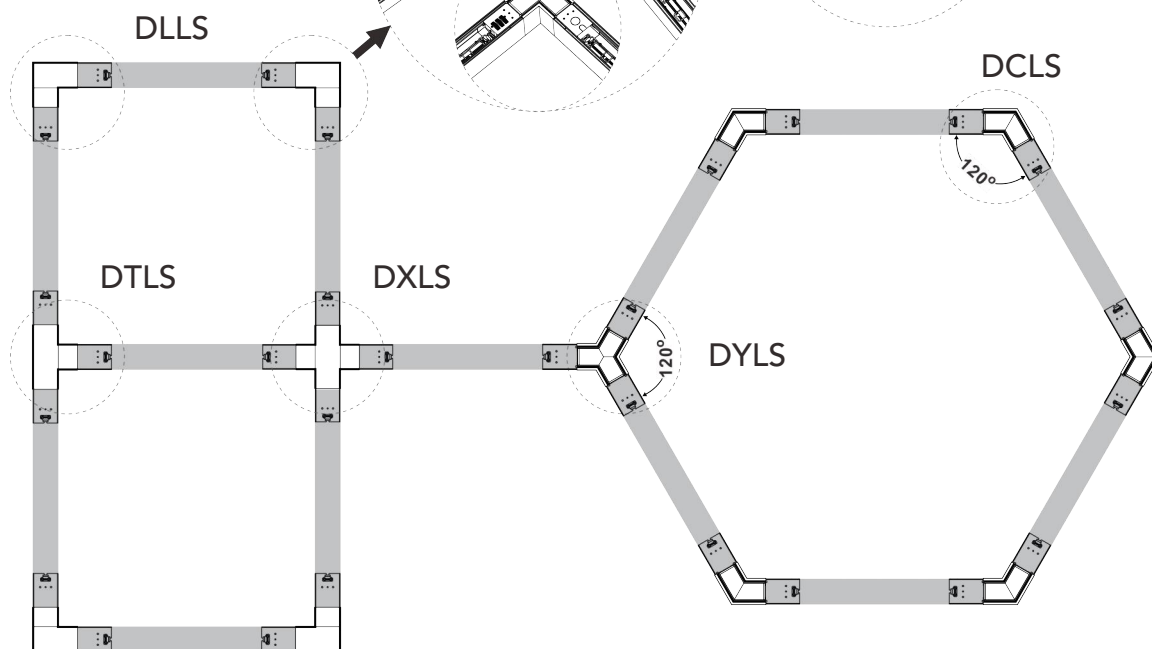
120° Pattern



Y Pattern



Example for lit-pattern



Dense 275 Series

Pendant, Surface, Wall Mount, Recessed

WISDOM LIGHT

Lit-Pattern Connectors



LLS(L-Shape)



TLS(T-Shape)



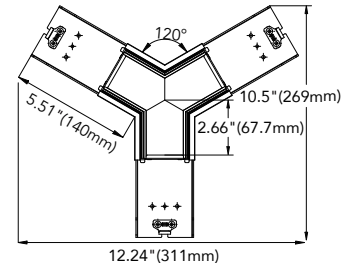
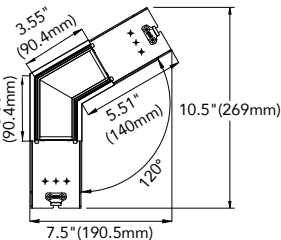
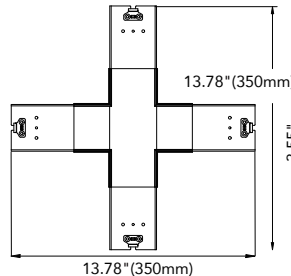
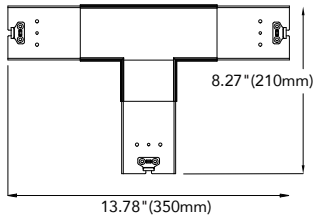
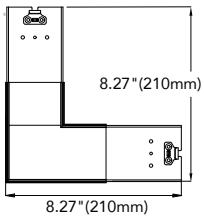
XLS(X-Shape)



CLS(120°L-Shape)



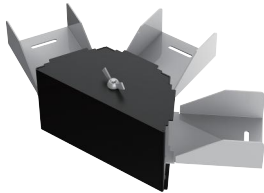
YLS(Y-Shape)



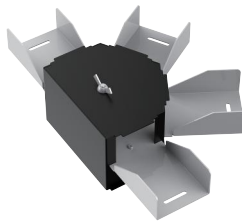
Non Lit-Pattern Connectors



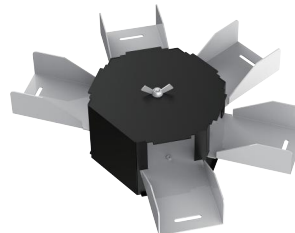
2MS(2 Head x 60°)



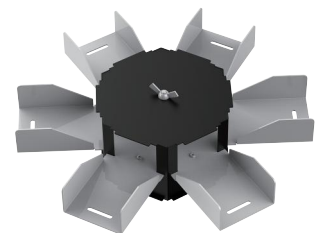
3MS(3 Head x 60°)



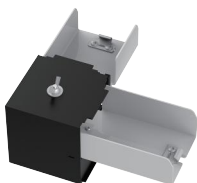
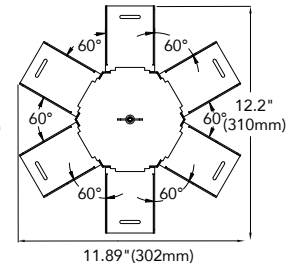
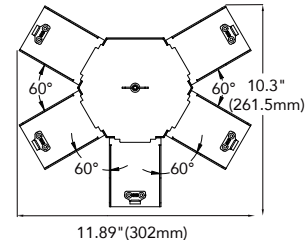
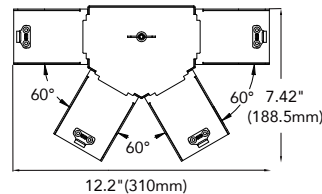
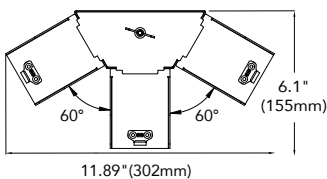
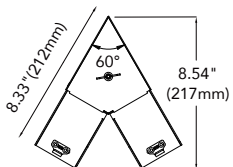
4MS(4 Head x 60°)



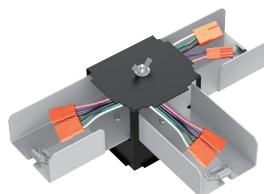
5MS(5 Head x 60°)



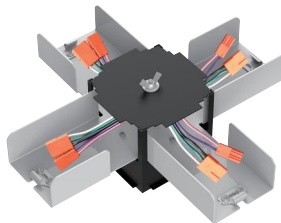
6MS(6 Head x 60°)



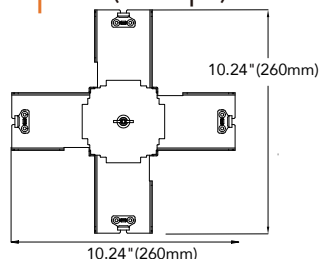
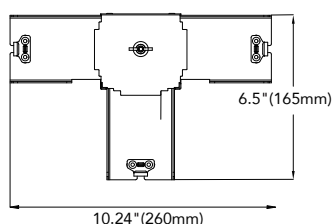
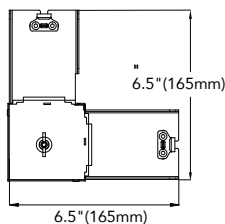
LMS(L-Shape)



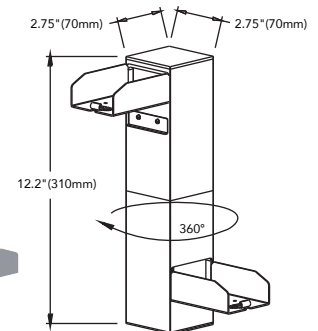
TMS(T-Shape)



XMS(X-Shape)



ZMS(Z-Shape)



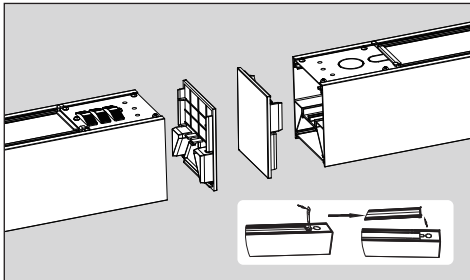
360° Rotable

Dense 275 Series

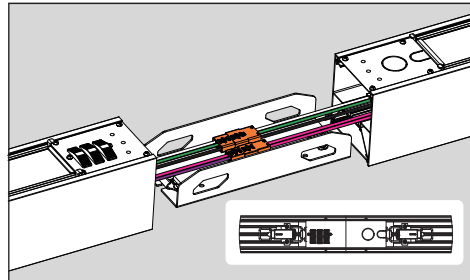
Pendant, Surface, Wall Mount, Recessed

WISDOM LIGHT

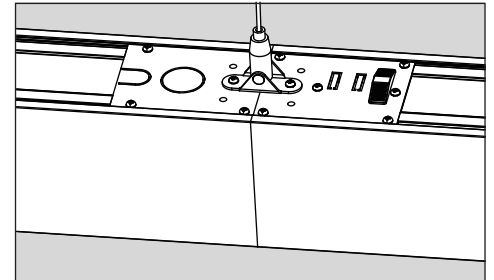
Quick linkable function



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



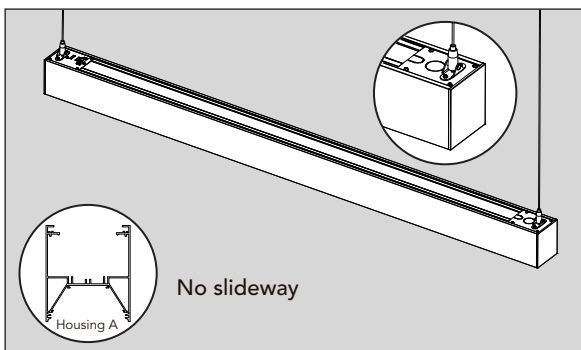
Step 2. Insert splicing bracket, Connect wiring via male/female quick connects, Slide lamp together, and fasten bracket with included buckles



Step 3. Screw on aircraft cable (Fixed aircraft cable bridged across the fixture seam is recommended)

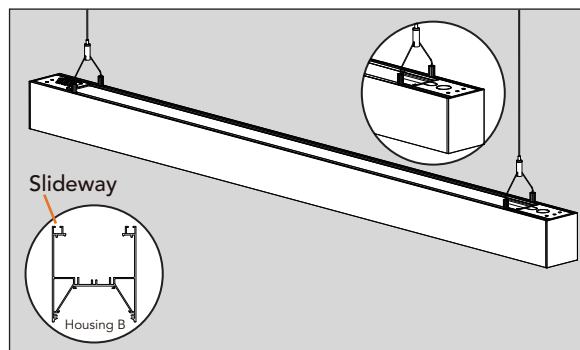
Housing Type

Housing A



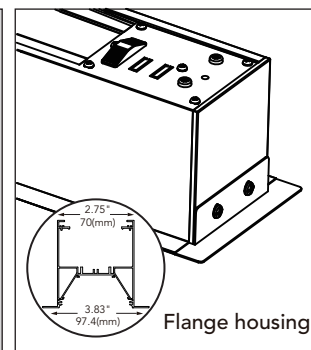
Work with fixed aircraft cable STA & STB

Housing B



New design, slideway with adjustable position aircraft cable

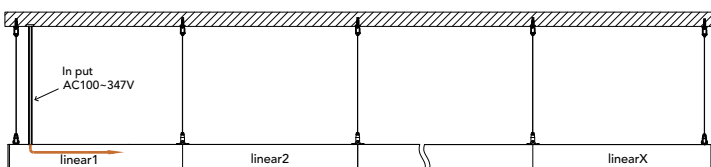
Housing C



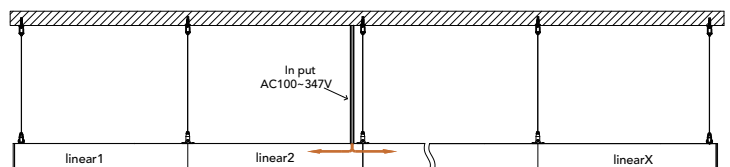
Housing C-Recessed housing with flange No Slideway, Recessed only

* Remark: Aircraft Cable see page 12

Single Direction



Multi-Direction



Max number after interconnection 2FT= 7 units 4FT=7 units 8FT=4 units
Total connected load is <420W at 120V & <960W at 277V & <1200W at 347V

LBKB(Link Bracket with Hook)



* For Multi-Direction wiring requires use of accessory MAC (see page 15)

Dense 275 Series

Pendant, Surface, Wall Mount, Recessed

WISDOM LIGHT

Mounting Options

Wall Mount



Surface



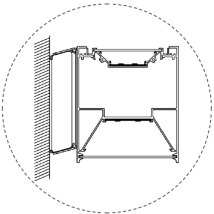
Recessed



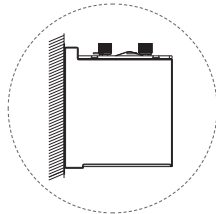
Pendant



Wallmount

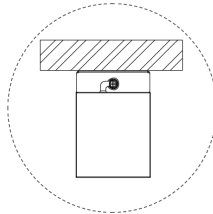


1.1 WMB-Wall Mount
Kits B-Type

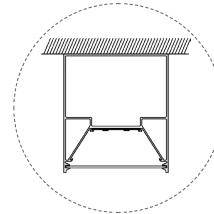


1.2 WMC-Wall Mount
Kits C-Type

Surface

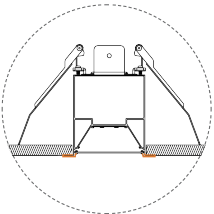


2.1 SMA-Surface mount
Kits A-Type

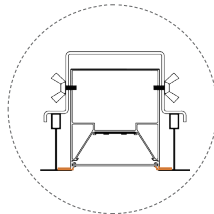


2.2 SMB-Surface mount
kits B-Type

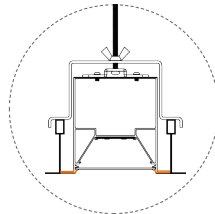
Recessed



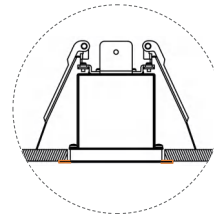
3.1 RMC-Recessed
Mount Spring clips
for Housing C



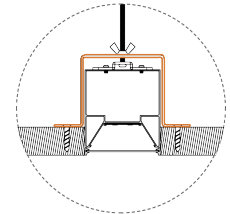
3.2 RMT-A type/T-Grid
Recessed Mount Kits
for Housing C



3.3 RMS-B type/T-Grid
Recessed mount Kits
for Housing C

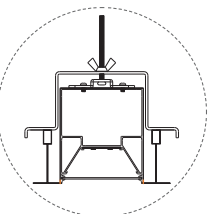


3.4 RMG-Frame type
Recessed Mount Kits

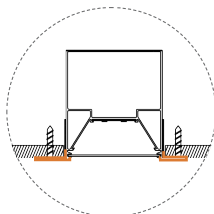


3.5 RML-C-type/Flangeless
Recessed Mount

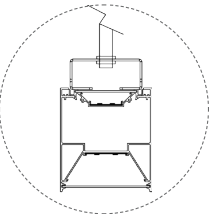
Pendant



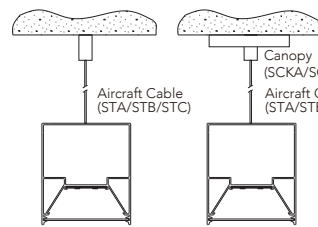
3.6 RMD-D-type/T-grid
Flangeless Recessed Mount



3.7 RMM-Mud-in trimless
Recessed Mount



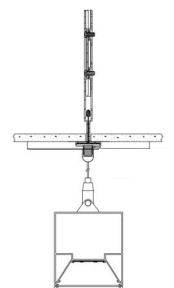
4.1 NPT Stem
Suspension



Aircraft Cable

Aircraft Cable & Canopy

4.2 Dry ceiling
Suspension



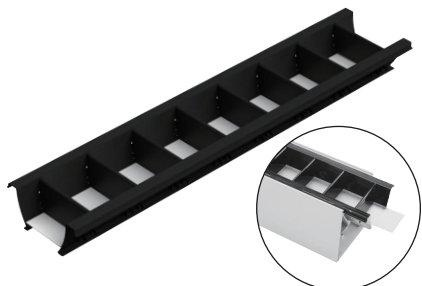
4.3 Drop ceiling
Suspension

Dense 275 Series

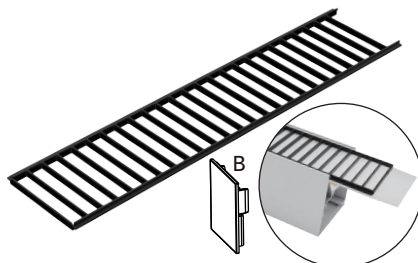
Pendant, Surface, Wall Mount, Recessed

WISDOM LIGHT

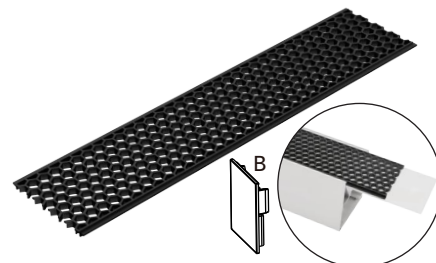
Lens & Diffusers



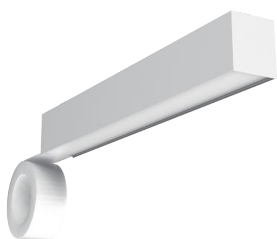
(1) PAL(Parabolic Lens) L=1FT



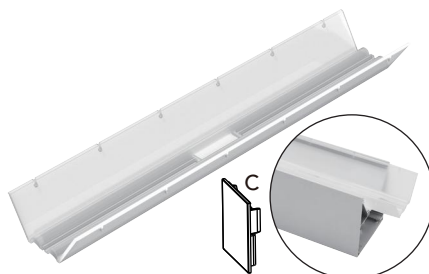
(2) PCL(PC Louver) L=1FT



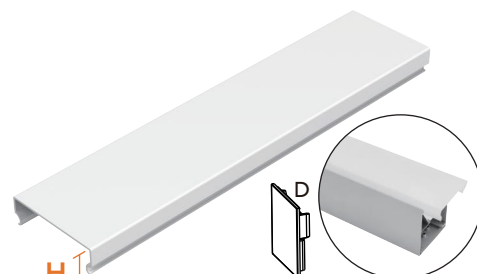
(3) HEL(Hex louver) L=1FT



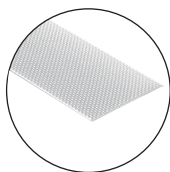
(4) PCR (PC continuous run lens)
L= 25M/roll



(5) WAL(Asymmetric Lens) L=1FT



(6) GLL(Glo lens) L=Any H=0.5"



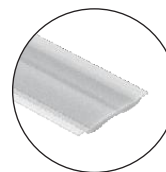
(7) PPC=Prismatic
PC Diffuser



(8) BVF=UGR < 22 Film



(9) BVB = Batwing Film
for down light



(10) BDO=(Upper Batwing Optic)
(New PCB board) L=Any

Fixture size	Quantity						
	(1)PAL	(2)PCL	END CAP (B)	(3)HEL	END CAP (B)	(5)WAL	END CAP (C)
2'	2	2	2	2	2	2	2
3'	3	3	2	3	2	3	2
4'	4	4	2	4	2	4	2
6'	6	6	2	6	2	6	2
8'	8	8	2	8	2	8	2

Fixture size	Quantity			
	(6)GLL	END CAP (D)	(4)PCR	(7)PPC (8)BVF (9)BVB (10)BDO
2'	1PCS, The length is the same as the fixrue size	2	After splicing, cut to the required length according to the total length of the lamp.	1PCS, The length is the same as the fixrue size
3'		2		
4'		2		
6'		2		
8'		2		

Dense 275 Series

Pendant, Surface, Wall Mount, Recessed

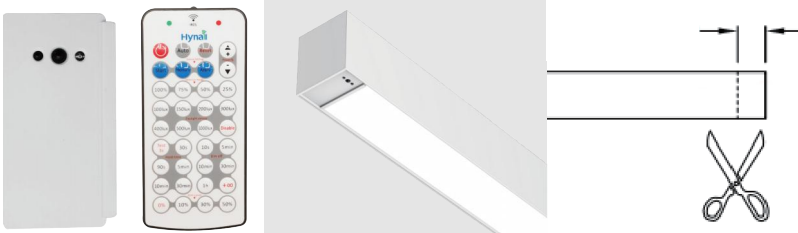
AK:Acoustic Kits



COLOR



Sensor Controls



MS(Microwave Sensor+Daylight Harvest) /MSC (Sensor Controller)

Cut the PC lens 1.26" to install the sensor



BM (Bluetooth+ PIR Sensor+Daylight)
Bluetooth mesh control for SmartLoop system
It Must work with CBM box

CBM(Wireless Control Box /Metal)

WISDOM LIGHT

Wire accessories



3AC-5C: 5-Cores 300V
3AC-6C: 6-Cores 300V
6AC-5C: 5-Cores 600V
6AC-6C: 6-Cores 600V



LBK=Internal Linkable cable kits



CAC :Convert Cable (X-Pattern need)

male-female connectors,L=3.54"
male-male connectors,L=3.54"
female-female connectors,L=3.54"



MAC(Multi-direction harness)
Wire Harness Kit for Multidirectional Power feed.
Used in conjunction with an input power cord,
when the feed location is in center of run.

Emergency Backup



8EM(8W EM) Internal



MCD=Mesh control Driver

Dense 275 Series

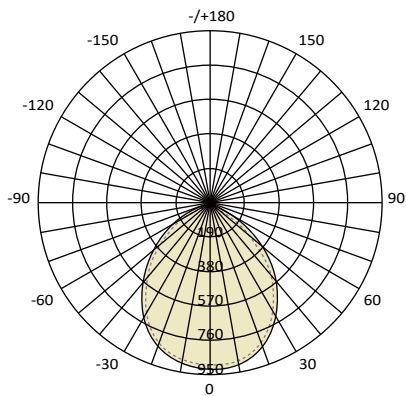
Pendant, Surface, Wall Mount, Recessed

WISDOM LIGHT

Lens	Lumen output
PC Diffuser	1250LM/FT, 10 W/FT

Above are subject to 4000K, white housing. All efficacy is +5% base on different CCT and lighting distributions. For other CCT, housing color etc. please check the IES file to gain the accurate data

Dense-275-2FT20W-840-WH-110-30
Dense-275/2'/20W/RA80/4000K/White/Beam angle 110°
Down 100%



AVERAGE BEAM ANGLE (50%): 109.8 DEG

Lumen/ft: 1252.39lm/ft
Total Lumens: 2504.78lm (for 2ft)
Input Watts: 19.7W
Efficacy: 127.15lm/W

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
5	896.1	896.6	900.2	904.8	904.4
10	877.0	879.9	885.8	896.1	894.8
15	850.4	854.0	864.0	878.0	876.7
20	817.0	820.9	834.1	852.1	850.1
25	776.4	782.4	799.7	818.1	815.1
30	729.5	733.7	755.2	777.1	774.7
35	676.3	683.2	704.5	729.0	726.5
40	618.2	625.5	648.0	675.7	672.6
45	552.8	563.0	586.4	616.4	613.5
50	483.9	495.5	521.2	553.1	547.6
55	412.6	424.9	451.7	484.5	478.1
60	339.0	351.1	380.0	413.3	405.6
65	264.6	276.4	306.9	339.7	331.4
70	191.0	201.9	234.0	264.3	255.9
75	120.7	130.6	162.7	190.1	182.0
80	54.59	63.83	94.49	118.9	110.2
85	4.645	9.891	34.56	54.55	44.57
90	0.1436	0.1596	0.1260	4.057	3.511
DEG	LUMINOUS INTENSITY:cd				

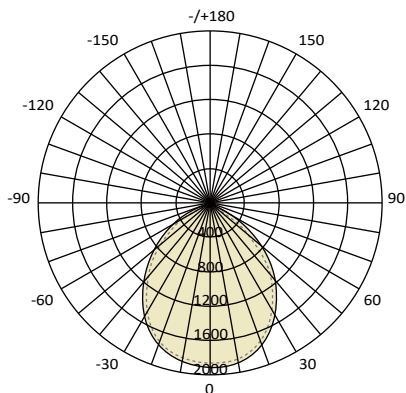
Zonal Lumens

Y	Φ zone	Φ total
0-5	21.57	21.57
5-10	63.90	85.47
10-15	103.9	189.3
15-20	140.0	329.3
20-25	171.1	500.4
25-30	196.1	696.5
30-35	214.4	910.9
35-40	225.2	1136
40-45	228.4	1365
45-50	223.7	1588
50-55	211.4	1800
55-60	192.0	1992
60-65	166.5	2158
65-70	136.0	2294
70-75	102.0	2396
75-80	66.78	2463
80-85	32.75	2496
85-90	7.464	2503

Luminance cd.lm 21

G(DEG)	C0/180	C90/270
85	2128	15880
80	12554	21794
75	18615	25179
70	22302	27404
65	25006	29083
60	27075	30440
55	28726	31543
50	30063	32476
45	31220	33218

Dense-275-4FT40W-840-WH-110-30
Dense-275/4'/40W/RA80/4000K/White/Beam angle 110°
Down 100%



AVERAGE BEAM ANGLE (50%): 110.0 DEG

Lumen/ft: 1318.56lm/ft
Total Lumens: 5274.29lm (for 4ft)
Input Watts: 41.8W
Efficacy: 126.18lm/W

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
5	1867	1876	1889	1900	1897
10	1823	1841	1868	1889	1882
15	1763	1790	1829	1859	1849
20	1687	1721	1774	1812	1798
25	1597	1638	1701	1747	1730
30	1494	1541	1612	1665	1647
35	1380	1431	1509	1570	1549
40	1252	1309	1393	1460	1441
45	1112	1175	1268	1340	1322
50	966.6	1032	1128	1210	1184
55	816.5	883.5	984.9	1067	1041
60	662.2	728.0	834.2	917.0	891.5
65	505.2	571.6	680.5	763.2	738.1
70	354.3	415.2	525.3	605.0	582.2
75	210.6	266.8	373.3	446.6	428.1
80	77.19	128.1	227.2	294.9	277.9
85	6.719	20.38	91.42	154.8	137.4
90	0.3234	0.2856	0.2692	30.08	19.31
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

Y	Φ zone	Φ total
0-5	45.11	45.11
5-10	133.7	178.8
10-15	217.3	396.1
15-20	293.0	689.1
20-25	358.2	1047
25-30	410.7	1458
30-35	448.9	1907
35-40	471.8	2379
40-45	478.5	2857
45-50	468.8	3326
50-55	443.4	3769
55-60	403.7	4173
60-65	351.1	4524
65-70	287.8	4812
70-75	217.5	5030
75-80	144.4	5174
80-85	74.18	5248
85-90	21.81	5270

Luminance cd.lm 21

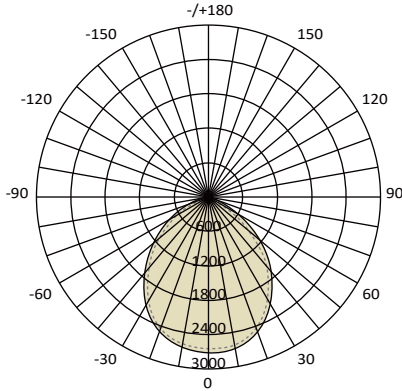
G(DEG)	C0/180	C90/270
85	2567	34997
80	14801	43655
75	27098	48117
70	34490	51241
65	39807	53718
60	44101	55662
55	47399	57288
50	50071	58556
45	52376	59808

Dense 275 Series

Pendant, Surface, Wall Mount, Recessed

WISDOM LIGHT

Dense-275-6FT60W-840-WH-110-30
Dense-275/6'/60W/RA80/4000K/White/Beam angle 110°
Down 100%



AVERAGE BEAM ANGLE (50%) : 108.5 DEG

Lumen/ft:1878.66lm/ft
Total Lumens:7514.65lm(for 6ft)
Input Watts:59.2W
Efficacy:126.94lm/W

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
10	2706	2704	2684	2675	2642
20	2566	2569	2536	2509	2449
30	2330	2339	2292	2253	2169
40	2014	2030	1975	1925	1821
50	1630	1663	1603	1546	1410
60	1207	1248	1194	1121	976.0
70	766.2	810.9	769.0	687.5	543.6
80	342.6	386.9	361.8	273.2	135.1
90	17.17	19.75	12.33	6.688	1.854
DEG	LUMINOUS INTENSITY:cd				

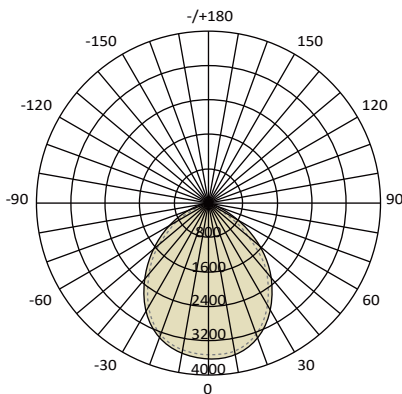
Zonal Lumens

Y	Φ zone	Φ total
0-10	258.0	258.0
10-20	735.0	992.9
20-30	1103	2096
30-40	1315	3411
40-50	1347	4758
50-60	1199	5956
60-70	900.1	6856
70-80	510.5	7367
80-90	124.2	7491

Luminance cd.lm 21

G(DEG)	C0/180	C90/270
85	9919	11673
80	11742	12402
75	12705	12970
70	13334	13383
65	13885	13814
60	14365	14216
55	14761	14551
50	15098	14847
45	15426	15118

Dense-275-8FT80W-840-WH-110-30
Dense-275/8'/80W/RA80/4000K/White/Beam angle 110°
Down 100%



AVERAGE BEAM ANGLE (50%) : 108.5 DEG

Lumen/ft:2473.18lm/ft
Total Lumens:9892.73lm(for 8ft)
Input Watts:78.2W
Efficacy:126.50lm/W

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
10	3562	3565	3537	3521	3476
20	3383	3385	3342	3304	3222
30	3068	3081	3022	2964	2852
40	2654	2673	2606	2532	2391
50	2148	2189	2110	2034	1853
60	1589	1643	1573	1474	1282
70	1007	1070	1011	904.7	714.0
80	452.4	512.1	479.1	363.2	177.3
90	22.47	26.29	15.91	8.692	2.478
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

Y	Φ zone	Φ total
0-10	339.9	339.9
10-20	968.5	1308
20-30	1454	2762
30-40	1732	4494
40-50	1773	6266
50-60	1577	7844
60-70	1184	9028
70-80	671.8	9700
80-90	164.3	9864

Luminance cd.lm 21

G(DEG)	C0/180	C90/270
85	12894	15625
80	15506	16424
75	16707	17022
70	17528	17590
65	18236	18168
60	18912	18724
55	19426	19163
50	19888	19537
45	20309	19914