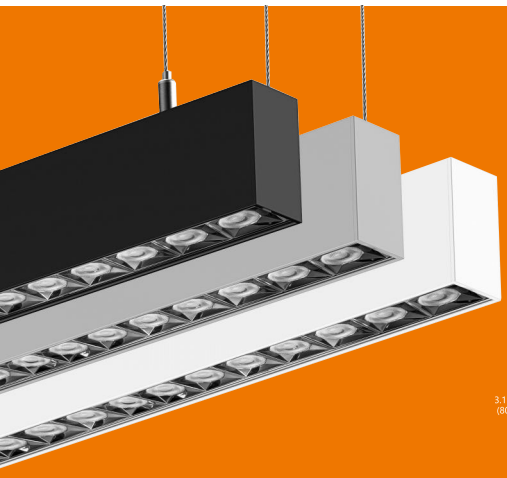
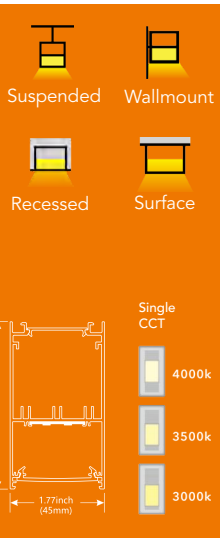
Dense 177

Suspended, Wall mount, Recessed, Surface

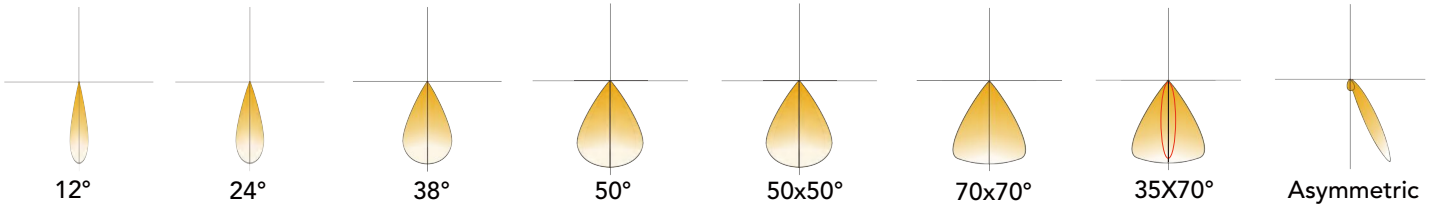
WISDOM LIGHT





The Dense series epitomizes minimalist elegance, offering sleek, consistent lines of light that complement any architectural setting. Leveraging cutting-edge linear LED technology, the Define series excels in efficiency and offers full customization, including aperture options, seamless continuous installations, and limitless length possibilities. Its sturdy build and adaptable, modular elements simplify installation, guaranteeing precise, straight configurations. The Dense 177 model comes in recessed, surface mount, or suspended variations. With adjustable wattage and CCT select, this fixture emerges as the ultimate solution-provider for various lighting challenges.

Beam Angles



Dense 177	Length	Wattage	Max Output Lumen Up 0% Down 100%	Nominal Efficacy	Single CCT	Input Voltage	Dimming	CRI
WL-MSD4FT24WADHV	4'	24W	2880lm	120lm/W	3000K 3500K 4000K	AC120-347V	0-10V	>90
WL-MSD4FT36WADHV	4'	36W	4320lm					
WL-MSD8FT72WADHV	8'	72W	8640lm					

Order Guide

Sample Model#: Dense 177 -WL-MSD4FT**36**WBDHV30K-**03D**-BK-SP

Dense 177	WL-MSD									
Luminaire ID	Series	Length Pattern	Wattage	Dip-Switch	Dimming	Voltage	CCT	Beam angle	Finish	Installation mode
Dense 177= 1.77"width	WL-MSD= MSD Linear Series Down Light Only	4FT 8FT	24W 36W 72W	A=Single CCT, single Watt	D=0-10V	HV=120-347V	30K=3000K 35K=3500K 40K=4000K	012=12° 024=24° 038=38° 050=50° 5050=50*50° 7070=70*70° 3570=35*70° ASY= Asymmetric	BK=Black WH=White SA=Silver CUS=Custom	SP=Suspended aircraft cable SC=Suspended Canopy and aircraftcable SM=Surface Mount WM=Wall Mount

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Contact us for the latest product information.

Dense 177

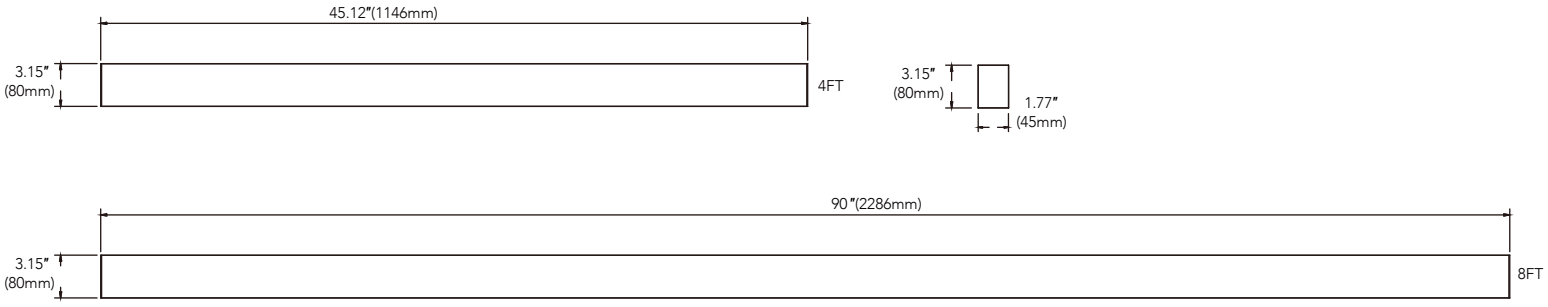
Suspended, Wall mount, Recessed, Surface

WISDOM LIGHT

Accessories

Lens	Mounting Options	Canopy Type	Canopy Finish	Other Accessories
PCF = PC Flush lens	TGH=T-grid Pendant	SCKA = 5" Canopy	BC = Black Canopy	LBKB = Metal Splice
PCL = PC Louver	STA=Aircraft Rope(A type)	SCKB = 9/16 Dropceiling 5'' Slim Canopy	WC = White Canopy	MS = Microwave Sensor
	STB=Aircraft Rope(B type)	STB=Aircraft Rope(B type)	SC = Sliver Canopy	CBM= Wireless Control Box
	SCK=Canopy Pendant	SCKC = 9/16 Dropceiling 1.7'' Slim Canopy		73AC-5C = 7' 5-Core 300V Cable
	SDS=Drywall Pendant mount			76AC-5C = 7' 5-Core 600V Cable
	SCS=Drop ceiling Pendant mount			73AC-6C = 7' 6-Core 300V Cable
	NPT=NPT stem Pendant			76AC-6C= 7' 6-Core 600V Cable
	WMB=B-type wall mount			LBK = Internal Linkable Cable Kits
	WMC=C-type wall mount			CAC = Convert Cable
				AK = Acoustic Kits
				8EM = 8W Internal EM

Dimension



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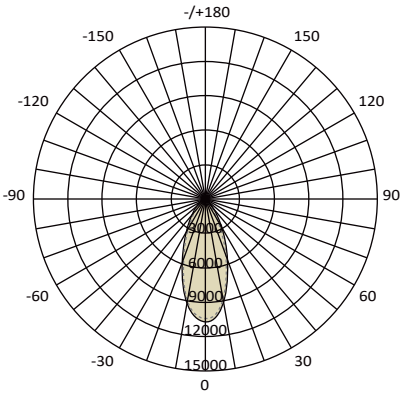
WISDOM LIGHT

Performance

Lens	Lumen output
PC Flush lens	920LM/FT,10W/FT

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

Dense 177-4FT40W-830-WH
Dense 177/4'/40W/RA80/3000K/White



AVERAGE BEAM ANGLE (50%) : 33.7 DEG

Lumen/ft: 1523.15lm/ft
Total Lumens:6092.61 lm(for 4ft)
Input Watts: 52.7W
Efficacy: 115.61lm/W

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
5	944.3	968.3	996.5	1010	1016
10	763.8	808.7	859.5	883.3	898.2
15	525.6	583.4	650.3	678.9	688.8
20	306.9	356.6	419.6	445.7	444.3
25	159.0	190.6	234.9	251.6	246.2
30	73.09	91.70	118.3	127.0	123.8
35	31.98	40.64	53.64	58.97	55.07
40	17.17	19.96	24.77	27.23	25.18
45	11.36	12.57	14.44	15.55	14.76
50	7.499	8.598	9.765	10.36	10.15
55	3.740	5.467	6.020	6.764	6.245
60	1.902	2.798	3.073	3.888	2.974
65	0.8546	1.381	1.634	1.908	1.485
70	0.0378	0.5313	0.7329	0.8955	0.5198
75	0.0137	0.0387	0.0370	0.1885	0.0155
80	0.0132	0.0142	0.0157	0.0151	0.0147
85	0.0141	0.0151	0.0164	0.0155	0.0150
90	0.0167	0.0187	0.0198	0.0175	0.0159
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

Y	Φ zone	Φ total
0-5	240.4	240.4
5-10	645.6	886.0
10-15	846.6	1733
15-20	798.7	2531
20-25	592.6	3124
25-30	370.5	3494
30-35	202.2	3697
35-40	103.6	3800
40-45	61.96	3862
45-50	44.26	3906
50-55	31.23	3938
55-60	18.88	3956
60-65	9.988	3966
65-70	4.819	3971
70-75	1.224	3972
75-80	0.1079	3973
80-85	0.0826	3973
85-90	0.0934	3973

Luminance cd.lm 21

G(DEG)	C0/180	C90/270
85	20	24
80	10	11
75	7	18
70	14	268
65	254	483
60	478	768
55	820	1311
50	1467	1898
45	2020	2551

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Dense 177

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WISDOM LIGHT

Product Specifications

Construction

- Available in Flush Housing
- Precision cut housing extruded from 6063 aluminum
- Precision PC end-caps ensure a robust and clean construction
- Nominal 2' -12' illuminated sections used in individual fixtures and 2'-8' illuminated sections used in continuous runs
- Electrostatically applied polyester powder coat paint

Light Engine

- LED's are available in 3000K, 3500K, 4000K or 5000K
- CRI ≥90

LED Drivers

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

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

Mounting

- Wall mount
- Surface
- Suspended
- Recessed



Lengths

- Available in any length (2ft min) with a resolution of 1 foot. Max section length of 12ft (8ft max used on continuous runs and available for individual fixtures)
- Additional fixture lengths are available please consult factory. All lengths are nominal and do not include end caps.
- Corners and other transition pieces are fully luminous
- Constructed using precision mitered housing and lens components
- Consult online linear configurator or the factory for precise corner locations and for ordering

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
- Optional battery backup options provided
- Default battery location is internal to fixture
- Default emergency section is 4ft in length and located at the beginning of the fixture unless designated elsewhere
- 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 1.2 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 (CRI>90)

Intertek

Warranty

- Five year warranty standard.

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