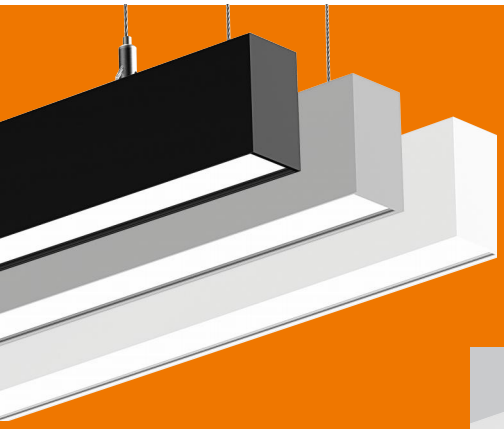
Dense 177

Suspended, Wall mount, Recessed, Surface

WISDOM LIGHT









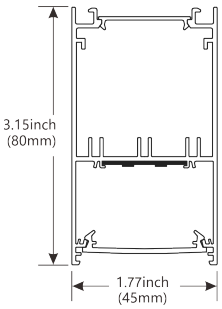


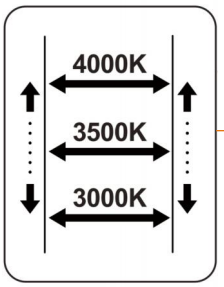


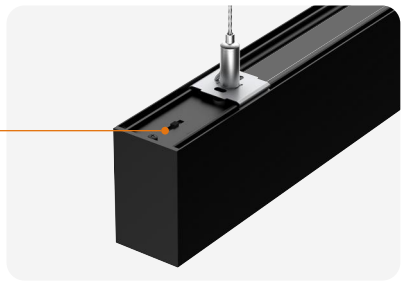
Flush spotless lens



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.







Dense 177	Length/ Pattern	Wattage	Max Output Lumen	Nominal Efficacy	CCT Select	Input Voltage	Dimming	CRI
			Up 0% Down 100%					
WL -MSD2FT20WBDHV	2'	20W	2000lm	100lm/W	3000K 3500K 4000K	AC120-347V	1%-100%	>90
WL -MSD4FT40WBDHV	4'	40W	4000lm					
WL -MSD6FT60WBDHV	6'	60W	6000lm					
WL -MSD8FT80WBDHV	8'	80W	8000lm					
WL -MSDL20WBDHV	L Pattern	20W	2000lm					
WL -MSDT30WBDHV	T Pattern	30W	3000lm					
WL -MSDC40WBDHV	X Pattern	40W	4000lm					

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Dense 177

Suspended, Wall mount, Recessed, Surface

WISDOM LIGHT

Order Guide

Sample Model#: Dense 177 -WL-MSD4FT40WBDHV-(30K-35K-40K)-BK-SP

Dense 177	WL-MSD								
Luminaire ID	Series	Length Pattern	Wattage	Dip-Switch	Dimming	Voltage	CCT	Finish	Installation mode
Dense 177 =1.77" width	WL-MSD= MSD Linear Series Down Light Only	2FT 4FT 6FT 8FT L= L Pattern T= T Pattern C= X Pattern	20W 40W 60W 80W 20W 30W 40W	B=3CCT Select	D = 0-10V	HV = 100-277/347V	30K-35K-40K= 3000K/ 3500K/4000K Select 30K-40K-50K= 3000K/ 4000K/5000K 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

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
	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

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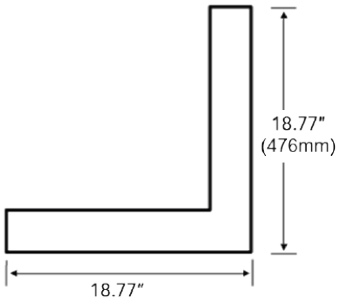
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Dense 177

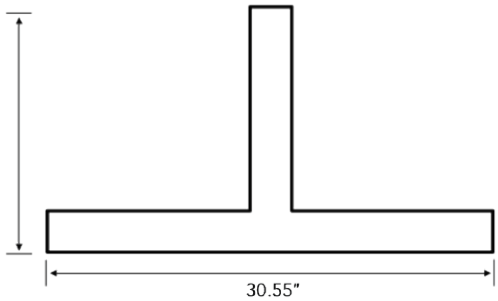
Suspended, Wall mount, Recessed, Surface

WISDOM LIGHT

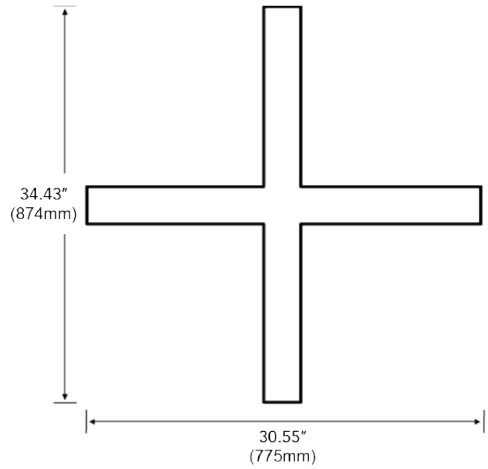
Dimension



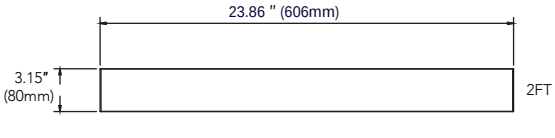
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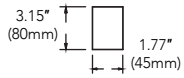


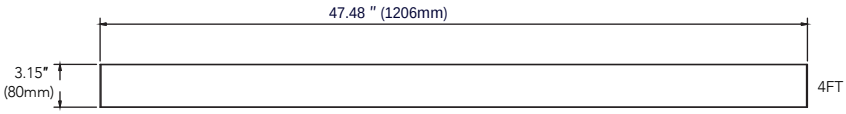
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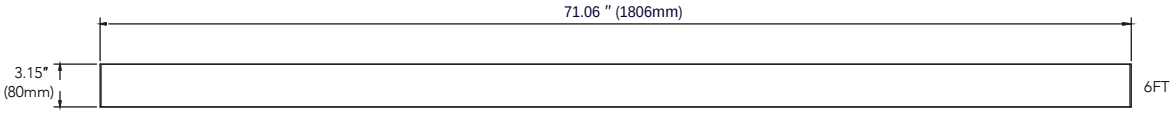


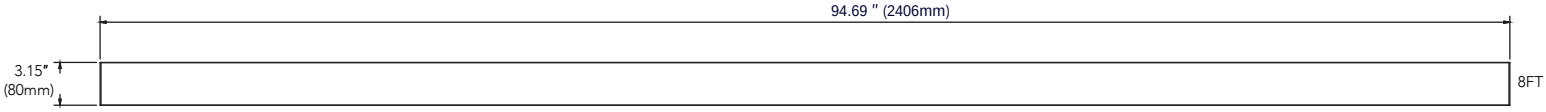
X Pattern











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Dense 177

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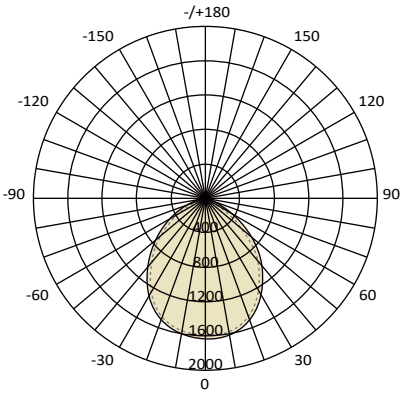
WISDOM LIGHT

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%) : 96.6 DEG

Lumen/ft: 927.24lm/ft
Total Lumens:3708.99 lm(for 4ft)
Input Watts: 40.8W
Efficacy: 90.91lm/W

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
5	1560	1562	1569	1579	1576
10	1515	1524	1544	1555	1546
15	1446	1463	1493	1511	1492
20	1359	1387	1427	1444	1417
25	1256	1292	1349	1361	1324
30	1143	1185	1258	1264	1216
35	1024	1072	1153	1155	1099
40	901.9	953.4	1043	1039	979.2
45	780.5	833.1	929.0	918.9	857.6
50	660.7	712.2	810.2	797.3	735.2
55	540.8	592.3	690.6	675.8	613.2
60	422.1	472.2	570.4	555.2	495.3
65	311.8	357.6	450.8	436.6	381.8
70	208.6	248.1	333.2	322.8	274.5
75	116.4	146.9	219.2	214.8	174.7
80	44.51	62.17	114.0	116.6	86.43
85	10.69	13.21	31.96	40.10	25.15
90	0.1740	0.1910	0.1893	4.429	1.656
DEG	LUMINOUS INTENSITY:cd				

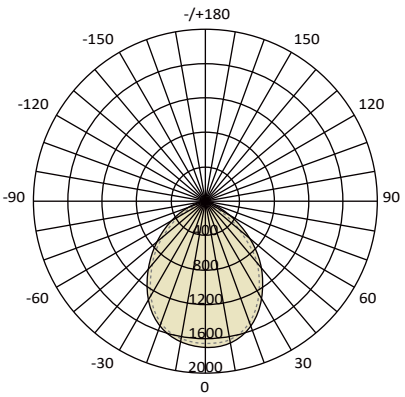
Zonal Lumens

Y	Φ zone	Φ total
0-5	37.66	37.66
5-10	111.1	148.8
10-15	179.1	327.9
15-20	238.3	566.2
20-25	286.3	852.4
25-30	321.2	1174
30-35	342.3	1516
35-40	349.7	1866
40-45	344.3	2210
45-50	327.2	2537
50-55	299.6	2837
55-60	262.7	3099
60-65	218.6	3318
65-70	169.8	3488
70-75	118.4	3606
75-80	68.49	3675
80-85	27.39	3702
85-90	4.843	3707

Luminance cd.lm 21

G(DEG)	C0/180	C90/270
85	183	545
80	382	976
75	670	1260
70	908	1449
65	1098	1587
60	1257	1697
55	1404	1791
50	1530	1875
45	1643	1954

Dense 177-4FT40W-830-WH
Dense 177/4'/40W/RA80/4000K/White



AVERAGE BEAM ANGLE (50%) : 96.7 DEG

Lumen/ft:1007.82lm/ft
Total Lumens:4031.28 lm(for 4ft)
Input Watts: 41.1W
Efficacy: 98.08lm/W

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
5	1692	1696	1704	1714	1711
10	1644	1654	1673	1688	1678
15	1569	1589	1621	1639	1619
20	1475	1507	1551	1570	1537
25	1365	1404	1465	1480	1436
30	1242	1291	1366	1375	1320
35	1114	1166	1256	1257	1192
40	981.4	1038	1135	1130	1061
45	849.1	906.7	1010	999.7	930.2
50	718.3	775.5	882.0	867.6	797.6
55	588.3	645.0	752.1	735.5	665.8
60	459.3	515.8	621.1	604.1	538.2
65	339.4	389.5	491.0	474.9	415.7
70	226.8	270.1	362.4	350.9	299.0
75	126.1	159.4	238.4	233.1	190.7
80	48.17	67.15	124.5	126.8	94.64
85	11.33	14.06	34.47	43.05	27.62
90	0.1929	0.2090	0.2045	4.623	1.897
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

Y	Φ zone	Φ total
0-5	40.87	40.87
5-10	120.6	161.5
10-15	194.3	355.8
15-20	258.7	614.5
20-25	310.8	925.3
25-30	348.9	1274
30-35	372.1	1646
35-40	380.1	2026
40-45	374.2	2401
45-50	355.7	2756
50-55	325.7	3082
55-60	285.8	3368
60-65	237.9	3606
65-70	184.7	3790
70-75	128.8	3919
75-80	74.56	3994
80-85	29.80	4024
85-90	5.256	4029

Luminance cd.lm 21

G(DEG)	C0/180	C90/270
85	194	588
80	413	1067
75	726	1370
70	988	1577
65	1196	1729
60	1368	1848
55	1528	1951
50	1664	2042
45	1789	2126

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Dense 177

Suspended, Wall mount, Recessed, Surface

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 options of either ≥80CRI or ≥90CRI (Lumen output will be affected - please refer to the lumen adjustment factor table)

LED Drivers

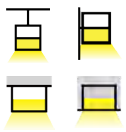
- LED system coupled with electrical driver
- Traditional electronic drivers are available for 120- 277V and 347V applications

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
- Standard 90° horizontal corners ,T-Shape,X-Shape as well as custom corners are available
- Consult online linear configurator or the factory for precise corner locations and for ordering
- Alternative transition pieces such as L's, T's, X's, etc. are also available

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)

Warranty

- Five year warranty standard.

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