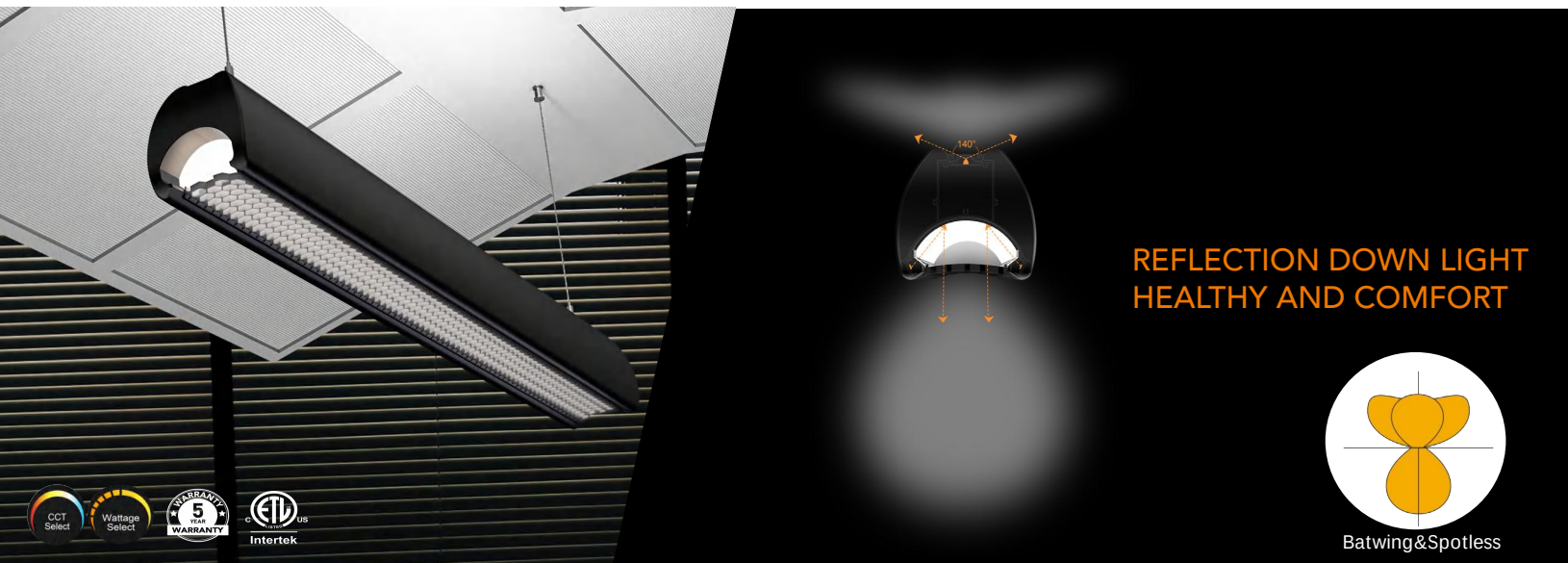


ARVEN 445

Diffuse reection GEN9 Linear Light

WISDOM LIGHT



FEATURES

- Width in (4.45"), discrete perimeter mounted luminaire
- Advanced diffuse reflection design shape the light distribution for exceptional cut-off and comfort. Upper wide throw, batwing light distribution provides ceiling uniformity and room fill.
- Light outputs from 5000lm (30% up and 70% down) to >10000lm (8 ft) with efficacies exceeding 100lm/W, 3-fields adjustable
- 0-10V dimming, 1%-100%



Louver



Without louver

Warden 445	Dimension	Wattage Select	Output Lumen	Nominal Efficacy	CCT Select	Input Voltage	Dimmable	CRI
			Up 30%Down 70%					
WL-9LSUD4FT50WB2D1HV (XXK-XXK-XXK)-YY	4FT	30W/40W/50W	3000Lm/4000Lm/5000Lm	100lm/W	3000K 3500K 4000K	AC120-347V / AC120-277V	(1%-100%) 0-10V	>90
WL-9LSUD8FT100WB2D1HV (XXK-XXK-XXK)-YY	8FT	60W/80W/100W	6000Lm/8000Lm/10000Lm					

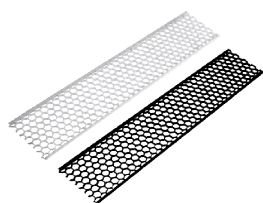
Order Guide

Sample Model#: **Windows 787-WL-14LSUD4FT50WB2D1HV(30K-35K-40K)-BK**

Product family	Brand& product	Dimension	Wattage	Series	Dimming	Volatge	Kelvintemp	Finishing	AdditionalFunction
ARVEN 445	WL-9LSUD= Gen9 Linear SeriesUp& Down	4FT 8FT	50W= 30/40/50W 100W= 60/80/100W	B2= 3CCT Select, 3Watt Select	D1=0-10V (1%-100%) DA=DALI	HV=120-347V UV=120-277V	(XXK-XXK-XXK) =3000K/3500K /4000K CCT Select	YY= BK=Black WH=White SA=Silver CS=Custom	Blank=NON [EM]=Emergency Driver [MS]=Microwave sensor [PIR]=Infrared sensor [EM,MS]=Emergency Driver+ Microwave sensor EM,PIR=Emergency Driver+ Infrared sensor

Lens	Mounting Accessories	Canopy Type	Canopy Finish
HPL=Hex louver	STE=Aircraft Cable--E type	SCKA = 5" Canopy	BC = Black Canopy
	SCS=Drop Ceiling Suspension Mount	SCKB=5"Slim Canopy	WC = White Canopy
	SDS=Drywall Suspension Mount Kit	SCKC=1.7"Slim Canopy	SC = Sliver Canopy

Accessories



| HPL=Hex louver
White /Black

PRODUCT SPECIFICATIONS

Construction

- Precision cut housing extruded from 6063 aluminum
- Die-casting end-caps ensure a robust and clean construction
- Advanced diffuse reflection design shape the down light distribution. Upper wide batwing light distribution provides ceiling uniformity and room fill.
-
- Nominal 4' or 8' fixtures available for quickship
- Standard white, black, silver and custom powder coat paint

Light Engine

- LED's are available in 3000K, 3500K, 4000K or 5000K,3-CCT select
- CRI ≥ 90 CRI as standard (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, 1-100%
- Additional control types are available (DALI & Lutron) at an additional cost

Mounting

- Pendant

Lengths

- Available in 4ft and 8ft ,linkable
- Additional fixture lengths are available please consult factory. All lengths are nominal and do not include end caps.

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

Weight

- 4FT= 9.26 lb
- 8FT= 17.26 lb

Environment

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

Approvals

- ETL - listed for damp locations

Warranty

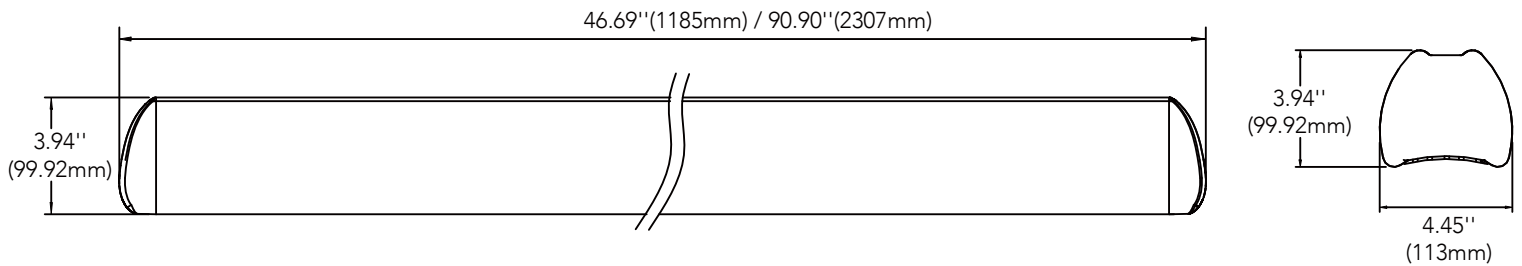
Five year warranty standard. Optional ten year warranty available.

ARVEN 445

Diffuse reection GEN9 Linear Light

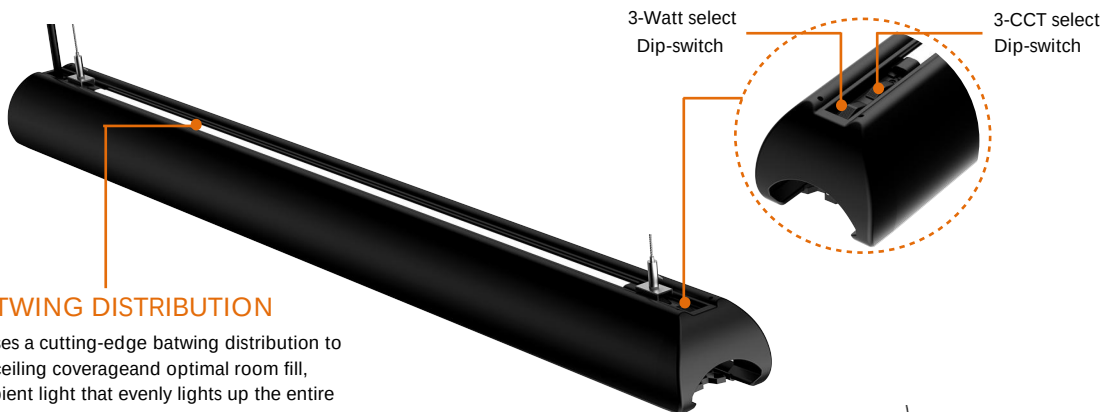
WISDOM LIGHT

Dimension



MODEL	L= Length	W=Width	H=Height
WL-9LSUD4FT50WB2D1HV (XXK-XXK-XXK)-YY	46.69"(1185mm)	4.45"(113mm)	3.94"(99.92mm)
WL-9LSUD8FT100WB2D1HV (XXK-XXK-XXK)-YY	90.90"(2307mm)	4.45"(113mm)	3.94"(99.92mm)

Features

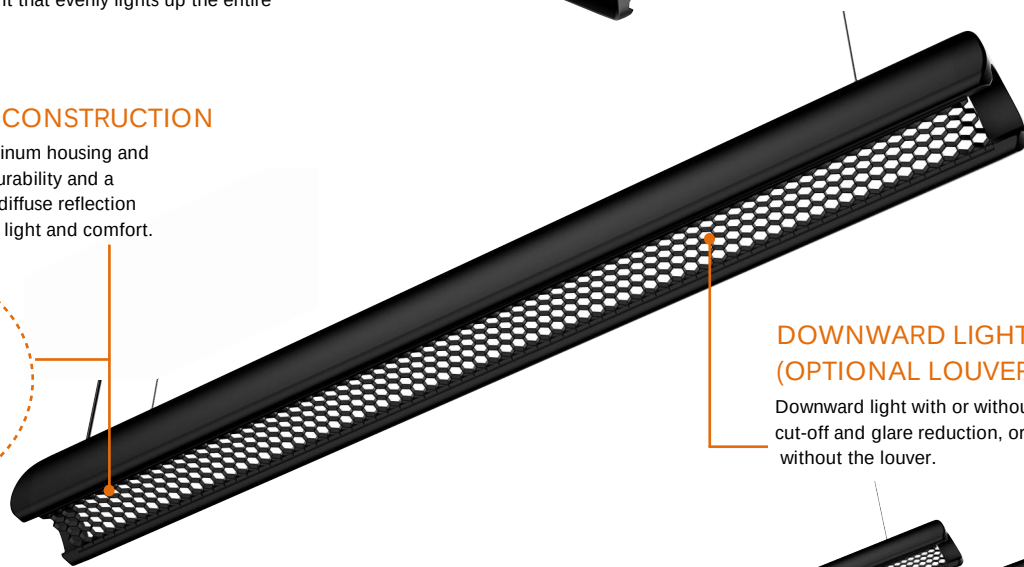
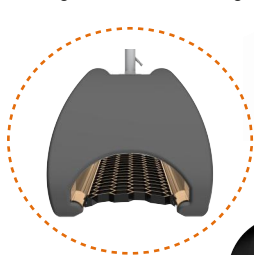


UPWARD BATWING DISTRIBUTION

The upward light uses a cutting-edge batwing distribution to achieve expansive ceiling coverage and optimal room fill, creating a soft, ambient light that evenly lights up the entire space.

HIGH-QUALITY CONSTRUCTION

Made with a 6063 aluminum housing and die-cast end caps for durability and a clean finish. Advanced diffuse reflection design ensures uniform light and comfort.



DOWNWARD LIGHT (OPTIONAL LOUVER)

Downward light with or without a louver for superior cut-off and glare reduction, or a softer, diffused light without the louver.



ARVEN 445

Diffuse reection GEN9 Linear Light

Canopy Type

Power feed/None Power feed

| SCKA= 5" Canopy -D5"*H0.8"



Non Power feed



Power feed

| SCKB = 5" Slim Canopy -Slim D5"*H0.3"



Non Power feed



Power feed

| SCKC =1.7" Slim Canopy -Slim D1.7"*H0.3"



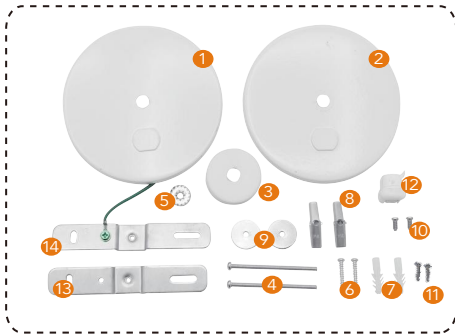
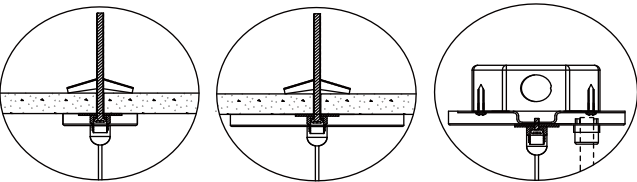
Non Power feed

STE-Aircraft Cable--E type

1	E Type Aircraft Cable	2PCS
2	Screw BA4*30	4PCS
3	Plastic Anchor	2PCS

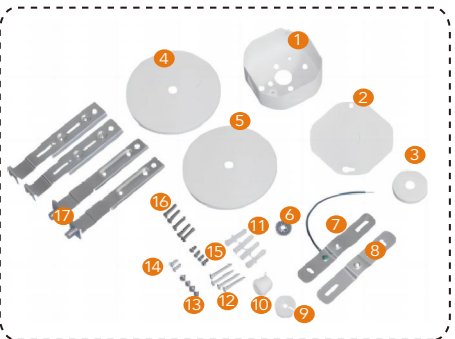
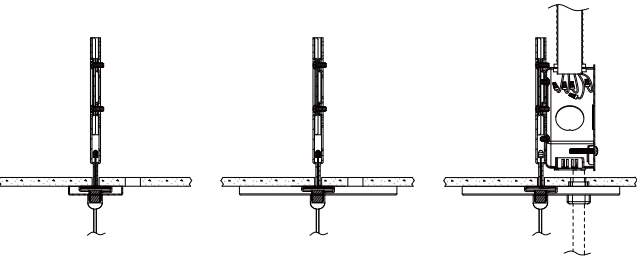


SDS-Drywall Suspension Kits



1	5" Slim Canopy (Non-Power feed)	1PCS	4	Screw PM4*70	2PCS	7	Plastic Anchor	4PCS	10	Screw PM4*10	2PCS	13	U Bracket with Ground	1PCS
2	5" Slim Canopy (Power feed)	1PCS	5	Lock Washer	1PCS	8	Butterfly Anchor	2PCS	11	Screw 8#-32*1-3/4	2PCS	14	U Bracket	1PCS
3	1.7" Slim Canopy	1PCS	6	Screw PA4*30	4PCS	9	Flat Washer	2PCS	12	Wire buckle	1PCS			

SCS-Drop Ceiling Suspension Kits



1	4" J-box	1PCS	5	5" Slim Canopy (Power feed)	1PCS	9	Plastic Grommet	1PCS	13	Screw PB4*5	2PCS	17	T-Grid Clips	2 Sets
2	4" J-box Plate	1PCS	6	Lock Washer	1PCS	10	Wire buckle	1PCS	14	Screw PM4*10	2PCS			
3	1.7" Slim Canopy	1PCS	7	U Bracket with Ground	1PCS	11	Plastic Anchor	4PCS	15	Screw PM4*8	4PCS			
4	5" Slim Canopy (Non-Power feed)	1PCS	8	U Bracket	1PCS	12	Screw BA4*30	4PCS	16	Screw 8-32*1-3/4	6PCS			

ARVEN 445

WISDOM LIGHT

Diffuse reection GEN9 Linear Light

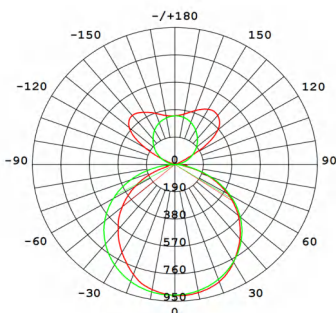
Lens	Lumen output
PC Diffuser	1380LM/FT,12.5W/FT

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

Ward 445-WL-9LSUD

NOMINALFLUX(lm):3746.24,NOMINAL POWER(W):50W,lmax(cd) :912.2,Efficay:75.07Lm/W

Ward 445-WL-9LSUD/4FT/50W/RA90/3000K/Without louve



AVERAGE BEAM ANGLE(50%):113.2 DEG

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	903.2	899.5	890.7	881.3	881.4
20	866.2	862.4	848.9	829.5	811.9
30	783.0	798.9	780.8	735.0	706.8
40	674.7	700.2	688.5	622.6	590.3
50	552.7	580.4	568.7	498.1	460.3
60	405.3	440.1	422.7	353.7	306.7
70	239.8	269.2	253.3	186.0	130.5
80	56.50	80.05	80.87	38.70	2.200
90	0.1335	0.5699	0.7921	0.4726	0.1645
DEG	LUMINOUSINTENSITY:cd/klm				

Zonal Lumens

γ	Φ zone	Φ total
00-10	85.95	85.95
10-20	247.0	332.9
20-30	374.9	707.8
30-40	451.9	1160
40-50	470.9	1631
50-60	428.4	2059
60-70	320.6	2380
70-80	158.8	2538
80-90	30.04	2568
UNIT:lm/klm		

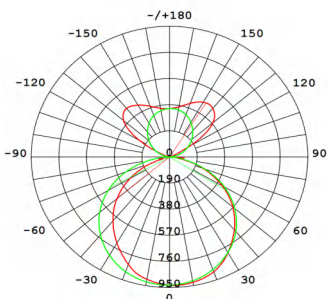
LUMINANCE cd/(m2)

G(DEG)	C0/180	C90/270
85	6572	1173
80	2446	3501
75	4396	4766
70	5272	5567
65	5727	6056
60	6095	6356
55	6312	6543
50	6465	6652
45	6533	6723

Ward 445-WL-9LSUD

NOMINALFLUX(lm):3869.73,NOMINAL POWER(W):50W,lmax(cd) :934.7,Efficay:79.79Lm/W

Ward 445-WL-9LSUD/4FT/50W/RA90/3500K/Without louve



AVERAGE BEAM ANGLE(50%):158.6 DEG

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	925.9	922.2	914.6	905.2	903.1
20	888.5	884.5	871.3	852.1	831.3
30	803.1	819.3	802.4	755.0	724.0
40	692.2	718.0	708.0	640.0	605.0
50	568.1	595.6	584.4	512.3	471.5
60	417.0	452.4	434.6	363.9	314.1
70	247.3	276.9	259.8	191.2	131.7
80	67.77	82.32	82.73	43.98	2.262
90	0.1360	0.8633	0.9215	0.5113	0.1669
DEG	LUMINOUSINTENSITY:cd/klm				

Zonal Lumens

γ	Φ zone	Φ total
00-10	88.17	88.17
10-20	253.3	341.5
20-30	384.5	726.0
30-40	463.6	1190
40-50	483.2	1673
50-60	439.8	2113
60-70	329.2	2442
70-80	163.6	2605
80-90	32.22	2638
UNIT:lm/klm		

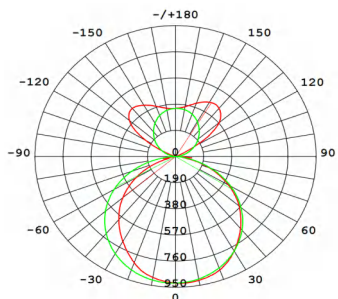
LUMINANCE cd/(m2)

G(DEG)	C0/180	C90/270
85	8380	1240
80	2935	3582
75	4535	4879
70	5436	5712
65	5905	6222
60	6270	6535
55	6490	6724
50	6645	6835
45	6707	6902

Ward 445-WL-9LSUD

NOMINALFLUX(lm):3829.7,NOMINAL POWER(W):50W,lmax(cd) :924.1,Efficay:77.21Lm/W

Ward 445-WL-9LSUD/4FT/50W/RA90/4000K/Without louve



AVERAGE BEAM ANGLE(50%):158.9 DEG

Zonal Flux Diagram

γ	C0	C45	C90	C135	C180
10	913.1	911.9	902.7	895.8	890.9
20	875.6	874.5	860.7	843.4	820.0
30	792.1	809.7	792.2	747.3	713.2
40	683.0	709.1	698.5	633.5	597.1
50	560.7	588.2	576.9	507.4	465.4
60	412.3	447.6	428.3	360.5	310.0
70	243.9	274.0	257.2	189.3	130.5
80	66.89	81.51	82.43	46.07	2.288
90	0.1433	1.001	0.9742	0.4993	0.1669
DEG	LUMINOUSINTENSITY:cd/klm				

Zonal Lumens

γ	Φ zone	Φ total
00-10	87.12	87.12
10-20	250.3	337.4
20-30	379.9	717.4
30-40	458.0	1175
40-50	477.5	1653
50-60	434.7	2088
60-70	325.4	2413
70-80	162.0	2575
80-90	32.76	2608
UNIT:lm/klm		

LUMINANCE cd/(m2)

G(DEG)	C0/180	C90/270
85	8605	1207
80	2896	3569
75	4472	4856
70	5362	5654
65	5830	6137
60	6200	6440
55	6413	6632
50	6559	6748
45	6613	6819

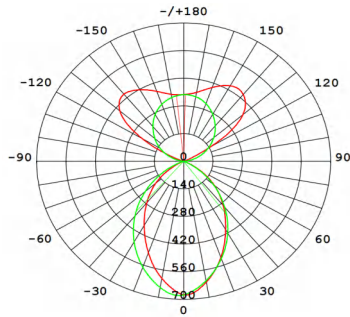
ARVEN 445

Diffuse reection GEN9 Linear Light

WISDOM LIGHT

Ward 445-WL-9LSUD

Ward 445-WL-9LSUD/4FT/50W/RA90/3000K/With louver



AVERAGE BEAM ANGLE(50%):215.6 DEG

NOMINALFLUX(lm):2196.2,NOMINAL POWER(W):50W,lmax(cd) : 683.5,Efficay:44.10lm/W

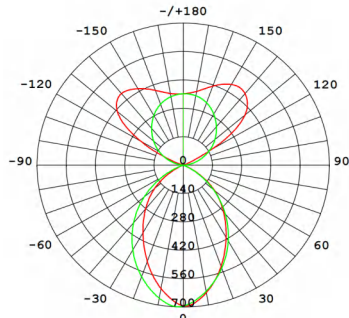
Zonal Flux Diagram					
γ	C0	C45	C90	C135	C180
10	621.7	624.3	614.9	605.1	602.4
20	518.1	532.1	524.7	501.8	492.6
30	399.9	418.4	419.7	382.5	377.8
40	292.7	298.6	303.6	268.5	273.5
50	190.7	187.1	184.9	165.6	174.7
60	77.39	80.47	69.01	68.44	65.37
70	10.11	11.47	8.120	8.268	8.373
80	1.852	1.620	1.786	1.572	1.720
90	0.0438	0.3879	0.7049	0.3974	0.0991
DEG	LUMINOUSINTENSITY:cd/klm				

Zonal Lumens		
γ	Φzone	Φtotal
00-10	61.72	61.72
10-20	161.9	223.6
20-30	216.5	440.2
30-40	223.2	663.4
40-50	189.7	853.1
50-60	122.9	975.9
60-70	40.65	1017
70-80	5.187	1022
80-90	0.8507	1023
UNIT:lm/klm		

LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	27	32
80	80	77
75	122	109
70	222	178
65	543	377
60	1164	1038
55	1789	1646
50	2231	2162
45	2570	2599

Ward 445-WL-9LSUD

Ward 445-WL-9LSUD/4FT/50W/RA90/3500K/With louver



AVERAGE BEAM ANGLE(50%):360.0 DEG

NOMINALFLUX(lm):2278.09,NOMINAL POWER(W):50W,lmax(cd) : 701.8,Efficay:46.97lm/W

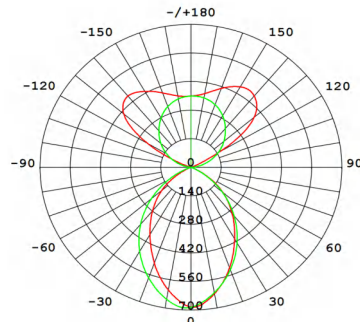
Zonal Flux Diagram					
γ	C0	C45	C90	C135	C180
10	638.0	640.0	631.4	621.4	617.5
20	530.6	545.3	539.7	515.2	505.0
30	410.6	428.8	431.0	392.9	386.6
40	300.1	305.9	312.5	276.0	281.1
50	196.7	192.5	189.7	170.6	180.0
60	79.58	83.13	71.36	70.65	67.48
70	10.45	11.98	8.282	8.544	8.549
80	1.905	1.671	1.796	1.617	1.751
90	0.0438	0.4025	0.8223	0.4192	0.1015
DEG	LUMINOUSINTENSITY:cd/klm				

Zonal Lumens		
γ	Φzone	Φtotal
00-10	63.31	63.31
10-20	166.0	229.4
20-30	222.0	451.4
30-40	228.9	680.3
40-50	194.7	875.0
50-60	126.3	1001
60-70	41.86	1043
70-80	5.329	1049
80-90	0.8765	1049
UNIT:lm/klm		

LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	28	32
80	82	78
75	126	110
70	230	182
65	560	391
60	1197	1073
55	1842	1691
50	2300	2219
45	2644	2671

Ward 445-WL-9LSUD

Ward 445-WL-9LSUD/4FT/50W/RA90/4000K/With louver



AVERAGE BEAM ANGLE(50%):360.0 DEG

NOMINALFLUX(lm):2278.09,NOMINAL POWER(W):50W,lmax(cd) : 701.8,Efficay:46.97lm/W

Zonal Flux Diagram					
γ	C0	C45	C90	C135	C180
10	628.9	634.1	624.1	616.3	610.7
20	523.4	538.1	534.2	512.9	499.1
30	404.8	420.9	427.7	392.6	382.0
40	297.4	300.5	311.0	275.5	277.7
50	194.5	190.7	190.3	169.2	177.9
60	78.82	84.54	72.41	69.38	67.36
70	10.30	11.70	8.238	8.591	8.482
80	1.874	1.709	1.759	1.584	1.747
90	0.0461	0.3976	0.8726	0.4095	0.1063
DEG	LUMINOUSINTENSITY:cd/klm				

Zonal Lumens		
γ	Φzone	Φtotal
00-10	62.62	62.62
10-20	164.3	226.9
20-30	219.5	446.4
30-40	226.4	672.8
40-50	192.9	865.7
50-60	125.4	991.1
60-70	41.68	1033
70-80	5.297	1038
80-90	0.8700	1039
UNIT:lm/klm		

LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	27	33
80	81	76
75	124	109
70	226	181
65	552	399
60	1185	1089
55	1821	1701
50	2275	2226
45	2618	2672