BRIGHTWAY LED Lighting
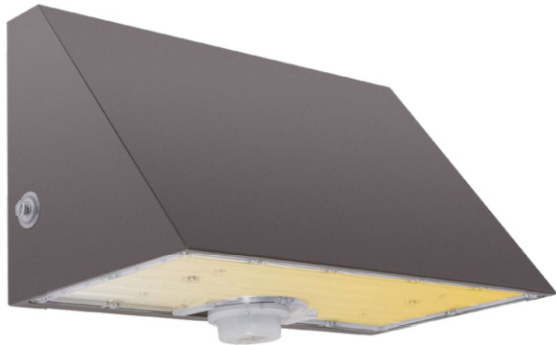
Selectable Wattages: (28W/42W/56W/70W) (48W/72W/96W/120W)

LED Architectural Wall Pack series can be widely used in indoor or outdoor lighting (wet location). Ideal for museums, art galleries, shopping malls, office buildings, walls and many other applications.

WATT/CCT SELECTABLE

UL CERTIFIED · ROHS COMPLIANT · WET LOCATION · DLC LISTED PREMIUM · FIVE YEAR LIMITED WARRANTY

FEATURES

- LED high luminous efficiency and long working life.

- High efficiency LED Driver, the wide range input voltage AC120-277V / 277-480V.

- Die-cast aluminum cooling design, high quality and better cooling for LED Tj < 85°C.

- Excellent optics design, greatly improve the light utilization and evenness.

- Photocell (Standard), Wireless bluetooth system and Motion sensor control available (Optional)

- 12Vdc auxiliary dimming

- The 1-10V Dimming type is continuous.

High performance, die-cast heat sink transfers heat from the light engine to the environment, drawing heat away from the fixture, and extending the lifespan of the LEDs.


Bluetooth (Option)

Easy field-install motion sensor

SPECIFICATION								
WATTAGE	28W	42W	56W	70W	48W	72W	96W	120W
LUMEN	4816 lm	6930 lm	8960 lm	11410 lm	8160 lm	11880 lm	15360 lm	18840 lm
EFFICACY	172 lm/W	165 lm/W	160 lm/W	163 lm/W	170 lm/W	165 lm/W	160 lm/W	157 lm/W
CCT	3000K, 4000K, 5000K				4000K/5000K			
CRI	70							
INPUT VOLTAGE	AC120-277V/277-480V							
BEAM ANGLE	Type III: 93.5 °X 87.4° (option) / Type IV: 94.3° X 76.8° (standard) / Type V:107.3° X1 04.9° (option)							
POWER FACTOR	0.90							
DRIVER EFFICACY	90%							
FACTORY SETTINGS	70W & 4000K				120W & 4000K			
LIFE SPAN	over 50,000 hrs							
WORKING TEMPERATURE	-22°F ~ 113°F							
STORAGE TEMPERATURE	-40°F ~ 176°F							
OUTDOOR RATING	Wet location							
CABLE	3 core,18AWG (11.8 inch)							
WARRANTY	5 year limited							

BRIGHTWAY LED Lighting

Selectable Wattages: (28W/42W/56W/70W) (48W/72W/96W/120W)

DIMENSION

12.35" 1.53" 7.09" 7.39" 7.94"
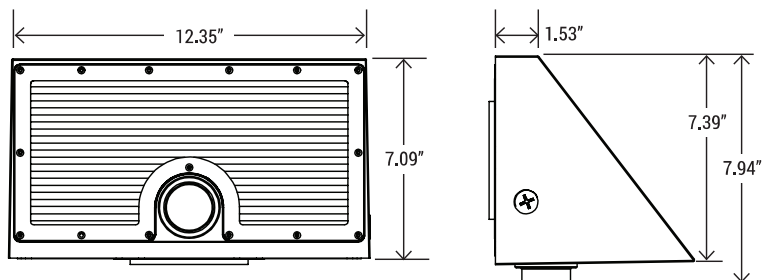
WATTAGE	28W-70W	48W-120W
NT. WEIGHT	8.14 lbs	8.60 lbs
BOX DIM.	13.58" x 7.87" x 8.27"	

EMERGENCY BACK-UP (SOLD SEPARATELY)

WSD-EMS8W27-XX
8W Emergency Backup Battery LED Driver
(Available only for 28-70W low-voltage models)

WSD-EMS15W27-XX
WSD-EMS20W27-XX
15W/20W Emergency Backup Battery LED Driver

YH28A-08WL-180-X
8W Emergency Backup Battery LED Driver
(Low voltage models only)

CONTROL (SOLD SEPARATELY)

Bluetooth
ANT-5-4T-BLE-SR
Bluetooth Microwave Motion Sensor
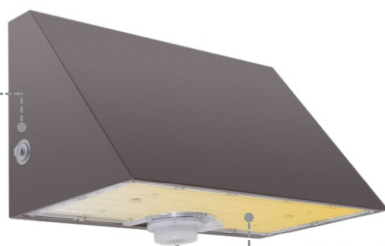
ANT-5-4T
Bi-level microwave Sensor

RC100
Remote Controller

*MESH RANGE	60ft node-to-node and 500ft node-to-Gateway (Commissioning)

PHOTOCELL STANDARD
P (Photocell)

Bluetooth
(Option)

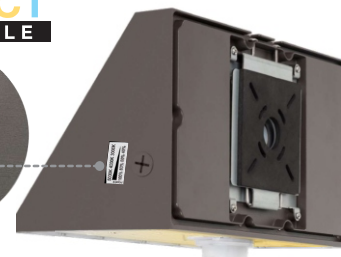### MOTION SENSOR and Bluetooth options

Optical lens is made of high quality PC material to make the light even and soft.

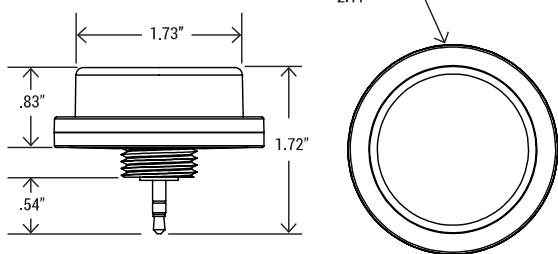**WATT/CCT SELECTABLE**

ORDERING INFORMATION

EXAMPLE:

WSD-AFW-2842567W27-345K-D-TN-P-M / WSD-AFW-48729612W27-45K-D-TN-P-M

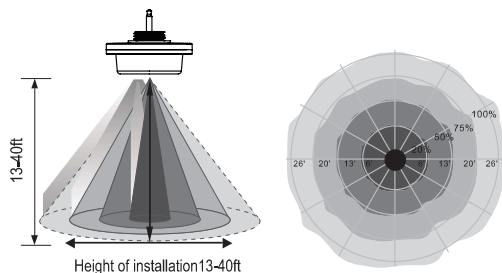| WSD	AFW	2842567W	27	345K	D	TN	P	M
COMPANY	PRODUCT	WATTAGE	VOLTAGE	CCT	FINISH	DISTRIBUTION	CONTROL	CONTROL
WSD LED INC	AFW LED Architectural Wall Pack	2842567W - (28W/42W/56W/70W) 48729612W - (48W/72W/96W/120W)	27 (AC120-277V) 48 (AC277-480V)	345K - (3000K/4000K/5000K) 45K - (4000K/5000K)	D - (Dark Bronze) W - (White) B - (Black) S - (Silver)	T3 - (Type III) T4 - (Type IV) T5 - (Type V)	P - (Photocell)	M - (Motion Sensor)

Selectable Wattages: (28W/42W/56W/70W) (48W/72W/96W/120W)

ANT-5-4T-BLE-SR
Plug and Play Network BLE Nodes and Sensor

The Bluetooth Lighting Control provides automated individual and group control of light fixtures using on sensors and Bluetooth sigmesh technology. The ANT-5-4T-BLE-SR mounted in an Commercial lighting fixture and provides multi-level control solution based on motion and or daylight harvesting contribution.

FEATURES
- Lighting controls meet design lights consortium (DLC) networked lighting control system technical requirements.
- Quick connect and adjust different sensor angle.
- Easy commissioning with Mobile App (Available in IOS).
- Bluetooth network with Saas working by computer
- Individual addressability and/or grouping.
- Time clock scheduling for individual lights, groups or scenes.
- Multi-level dimming: manual ON/OFF automatic ON/OFF, and automatic partial ON/OFF, daylight harvesting control capability.
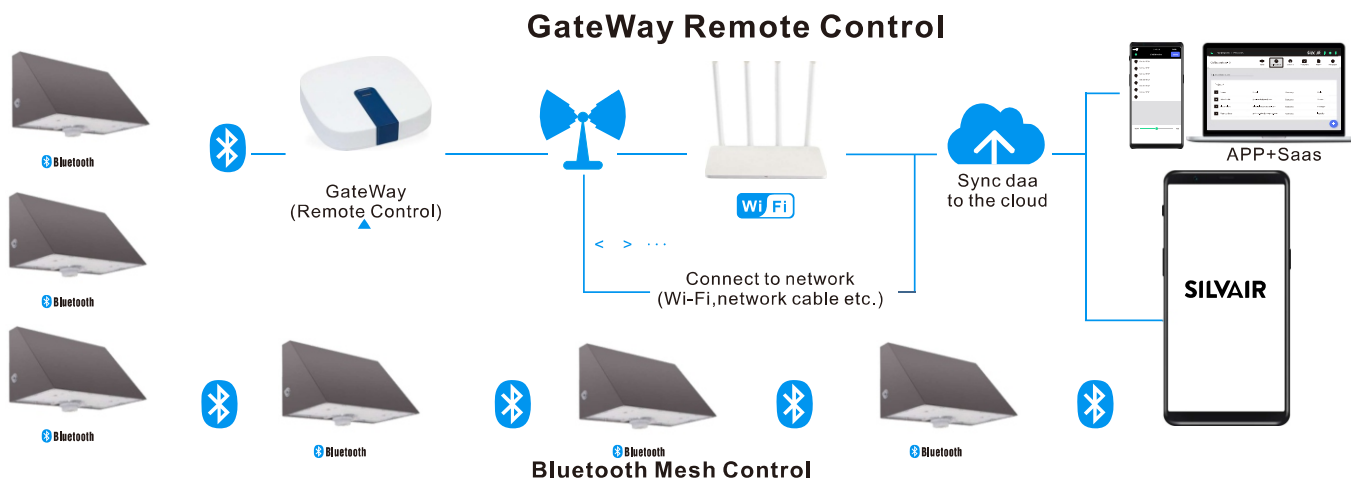
DIMENSION
1.73"
2.17"
.83"
1.72"
.54"

COVERAGE
13-40ft
Height of installation13-40ft
100%
75%
50%
26' 20' 13' 13' 20' 26'

MICROWAVE SENSOR FEATURES	
DAYLIGHT HARVESTING	On/Off
MOTION SENSING	On/Off
FIRST TIME DELAY	1-59 mins/infinite
SECOND TIME DELAY	0-59 mins/infinite
DIM LEVEL	0-100%
MOUNTING HEIGHT	13-40ft
DETECTION RANGE	up to 52ft diameter
DETECTION: HORIZONTAL	360°
DETECTION: VERTICAL	90°

SPECIFICATION	
NETWORK BLE MESH	Yes
DAYLIGHT HARVESTING	Yes
MICROWAVE MOTION SENSOR	Yes
DETECTION MODE	Occupancy/Vancancy/Bi-level in 1 Unit
OPERATING VOLTAGE	12-24V DC
OPERATING CURRENT	>50mA
SINKING CURRENT	max. 25mA
CONTROL OUTPUT	0-10V
RADIO FREQUENCY	2.4GHz ± 75MHz
WIRELESS STANDARD	BLE 5.0 MESH
PRORGRAMMING	Silvair iOS App (IOS)
CYBERSECURITY	UL
ENCRYPTION	AES 128-bit
MESH RANGE	60ft node-to-node and 500ft node-to-device (Commissioning)
SAFETY	cULus Listed
FCC	FCC
OPERATING TEMP.	-20°C - +60°C
IP RATING	IP65
WARRANTY	5 year limited

COMMISSIONING
Silvair iOS App makes it easy to pair devices, create groups, set scenes/schedules, customize dimming levels, and adjust high trim based on application needs.

Silvair App

Please scan and download the app.

iOS

Operation Instruction:
https://youtu.be/8KWPK7z_Tng

Selectable Wattages: (28W/42W/56W/70W) (48W/72W/96W/120W)

GateWay Remote Control

GateWay
(Remote Control)

Wi Fi

Connect to network
(Wi-Fi,network cable etc.)

Sync daa
to the cloud

APP+Saas

SILVAIR

Bluetooth Mesh Control

INDUSTRIAL GATEWAY

SGW-101
Smart Engineering Gateway

The Silvair Gateway connects Bluetooth mesh networks that have been commissioned using the Silvair Commissioning tools to the Silvair cloud. This allows the scheduling of events and delivery of services based on the data generated by these networks.

Functions:
The Silvair Gateway enables the following functions in the Silvair web app: ●
Scheduling (available by default)
- ○Scheduling changes in scenes and lighting control scenarios (for example occupancy sensing,daylight harvesting) for specific times or days.
● Energyand occupancy monitoring (additional paid service)
- ○Visualizing energy use and occupancy via the Silvair web app.
- ○Downloading energy and occupancy via the Silvair web app and cloud-based API.
● Remote monitoring and control (additional paid service)
- ○ Low-latency monitoring of the status of devices in the network via API.
- ○ Low-latency control of devices in the network via API. ● System
diagnostics
- ○ Monitoring of the status of Bluetooth mesh networks.
- ○ Remote troubleshooting of networking issues.

Features:
- ●Future-proof Linux operating system.
- ●Simple commissioning using the Silvair Commissioning tools.
- ●Automatic connection to the Silvair cloud.
- ●Secure provisioning with secure IDs and encrypted keys.
- ●High level of hardware and software security (secure boot and encrypted file system can only be accessed with the management platform).
- ●Automatic security updates.
- ●Prompt releases of OS updates and fixes to vulnerabilities.
- ●Low-latency transfer of network, luminaire, and sensor status data to the Silvair cloud.
- ●Schedule caching.
- ●Automatic remote firmware updates.
- ●Display of gateway and network performance metrics (requires the Silvair web app).

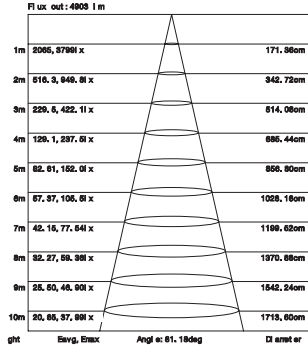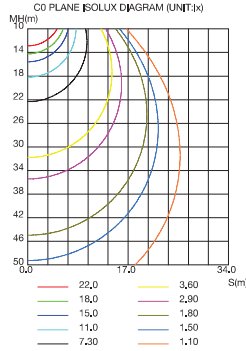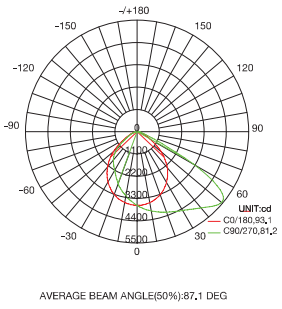| SPECIFICATION	
POWER SUPPLY	4.5–5.5 V DC, 2 A Power over Ethernet 36–57 V DC (IEEE 802.3af)
OPERATING SYSTEM	Ubuntu Core
PROCESSOR	i.MX6ULL (Y2), 32-bit ARM 800 MHz
MEMORY	512 MB DDR3L SDRAM 8GB eMMC
COMMUNICATION PROTOCOLS	Bluetooth mesh (2.4 GHz Bluetooth Low Energy) Wi-Fi 802.11a/b/g/n/ac (2.4/5 GHz) 4G LTE Cat 1 with 2G/3G (only for Cascade-500-W and Cascade-500-X gateways)
PORTS	1 x RJ45 10/100 Ethernet 1 x USB 2.0 Type-A 2 x external dipole antenna, 5 dBi (only for Cascade-500-W and Cascade-500-X gateways)
REQUIRED AMBIENT TEMPERATURE	0°C to 60°C 32°F to 140°F
ENCLOSURE DIMENSIONS	127 mm x 127 mm x 30 mm (5 inch x 5 inch x 1.2 inch)
MOUNTING POSITION	Wall or surface mounted. As close to the geometrical center of the lighting network as possible, but as far as possible from potential sources of interference.
SECURITY	Secure boot with encrypted operating system Secure communication with the Silvair Cloud over Internet (TLS) Secure communication with devices over qualified Bluetooth mesh

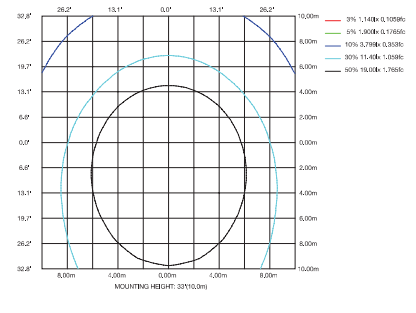## Selectable Wattages: (28W/42W/56W/70W) (48W/72W/96W/120W)

PHOTOMETRICS

For complete IES files, please visit our website.

WSD-AFW2842567W27-345K-D-T3 (70W@5000K)
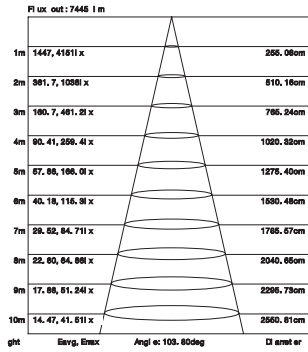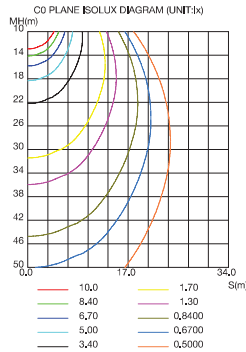

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

UNIT:cd
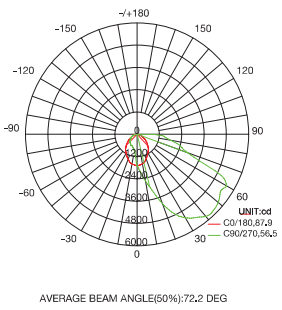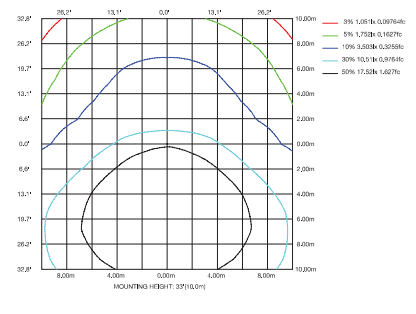C0/180,93.1
C90/270,81.2

AVERAGE BEAM ANGLE(50%):87.1 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)
MH(m)

22.0	3.60
18.0	2.90
15.0	1.80
11.0	1.50
7.30	1.10

Flux out : 4903 lm

1m	2065, 3799 lx	171.36cm
2m	516. 3, 949. 8 lx	342.72cm
3m	229. 5, 422. 1 lx	514.08cm
4m	129. 1, 237. 5 lx	685.44cm
5m	82. 61, 152. 0 lx	856.80cm
6m	57. 37, 105. 5 lx	1028.16cm
7m	42. 15, 77. 54 lx	1199.62cm
8m	32. 27, 59. 36 lx	1370.88cm
9m	25. 50, 46. 90 lx	1542.24cm
10m	20. 65, 37. 99 lx	1713.60cm
ght	Eavg, Emax	Angl e: 61.18deg	Di amet er

ISOLUX DIAGRAM

3% 1.140lx 0.1059fc
5% 1.900lx 0.1765fc
10% 3.799lx 0.353fc
30% 11.40lx 1.059fc
50% 19.00lx 1.765fc

MOUNTING HEIGHT: 33'(10.0m)

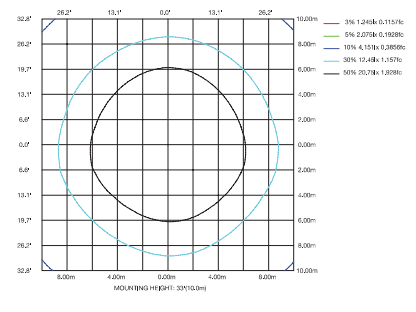**WSD-AFW2842567W27-345K-D-T4 (70W@5000K)**

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

UNIT:cd
C0/180,87.9
C90/270,56.5

AVERAGE BEAM ANGLE(50%):72.2 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)
MH(m)

10.0	1.70
8.40	1.30
6.70	0.8400
5.00	0.6700
3.40	0.5000

Flux out : 7445 lm

1m	1447, 4151 lx	265.06cm
2m	361. 7, 1038 lx	510.16cm
3m	160. 7, 461. 2 lx	765.24cm
4m	90. 41, 259. 4 lx	1020.32cm
5m	57. 86, 166. 0 lx	1275.400cm
6m	40. 18, 115. 3 lx	1530.48cm
7m	29. 52, 84. 71 lx	1785.57cm
8m	22. 60, 64. 86 lx	2040.65cm
9m	17. 86, 51. 24 lx	2295.73cm
10m	14. 47, 41. 51 lx	2550.81cm
ght	Eavg, Emax	Angl e: 103. 60deg	Di amet er

ISOLUX DIAGRAM

3% 1.051lx 0.09764fc
5% 1.752lx 0.1627fc
10% 3.503lx 0.3255fc
30% 10.51lx 0.9764fc
50% 17.52lx 1.627fc

MOUNTING HEIGHT: 33'(10.0m)

WSD-AFW2842567W27-345K-D-T5 (70W@5000K)

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

UNIT:cd
C0/180,105.8
C90/270,104.3

AVERAGE BEAM ANGLE(50%):105.1 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)
MH(m)

25.0	4.10
21.0	3.30
17.0	2.10
12.0	1.70
8.30	1.20

Flux out : 4903 lm

1m	2065, 3799 lx	171.36cm
2m	516. 3, 949. 8 lx	342.72cm
3m	229. 5, 422. 1 lx	514.08cm
4m	129. 1, 237. 5 lx	685.44cm
5m	82. 61, 152. 0 lx	856.80cm
6m	57. 37, 105. 5 lx	1028.16cm
7m	42. 15, 77. 54 lx	1199.62cm
8m	32. 27, 59. 36 lx	1370.88cm
9m	25. 50, 46. 90 lx	1542.24cm
10m	20. 65, 37. 99 lx	1713.60cm
ght	Eavg, Emax	Angl e: 61.18deg	Di amet er

ISOLUX DIAGRAM

3% 1.245lx 0.115fc
5% 2.075lx 0.1928fc
10% 4.151lx 0.3856fc
30% 12.45lx 1.157fc
50% 20.75lx 1.928fc

MOUNTING HEIGHT: 33'(10.0m)

BRIGHTWAY LED Lighting

LED SELECTABLE ARCHITECTURAL WALL PACK - WSD Series 28W-120W

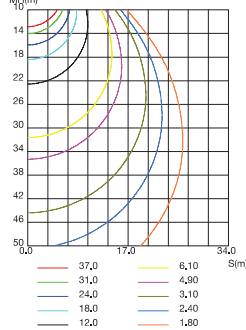## Selectable Wattages: (28W/42W/56W/70W) (48W/72W/96W/120W)

PHOTOMETRICS

For complete IES files, please visit our website.
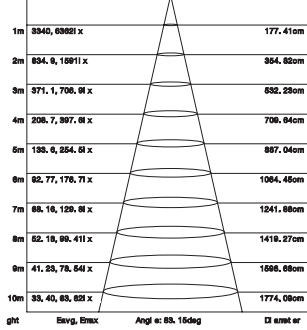
WSD-AFW48729612W27-45K-D-T3 (120W@5000K)

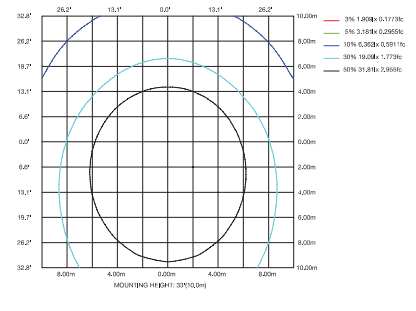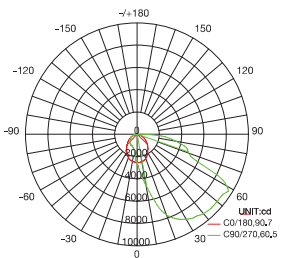LUMINOUS INTENSITY DISTRIBUTION DIAGRAM — AVERAGE BEAM ANGLE(50%):88.4 DEG
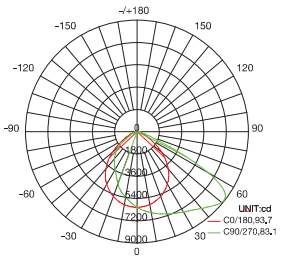
C0 PLANE ISOLUX DIAGRAM (UNIT:lx)

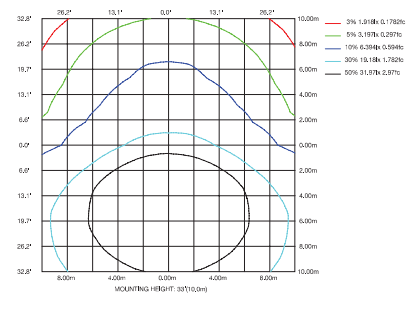ISOLUX DIAGRAM

WSD-AFW48729612W27-45K-D-T4 (120W@5000K)

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM — AVERAGE BEAM ANGLE(50%):75.6 DEG
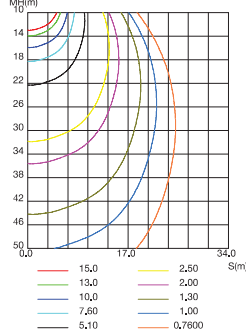
C0 PLANE ISOLUX DIAGRAM (UNIT:lx)
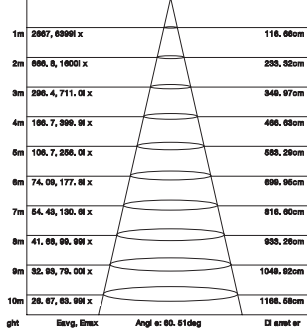
ISOLUX DIAGRAM

WSD-AFW48729612W27-45K-D-T5 (120W@5000K)

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM — AVERAGE BEAM ANGLE(50%):105.9 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)

ISOLUX DIAGRAM