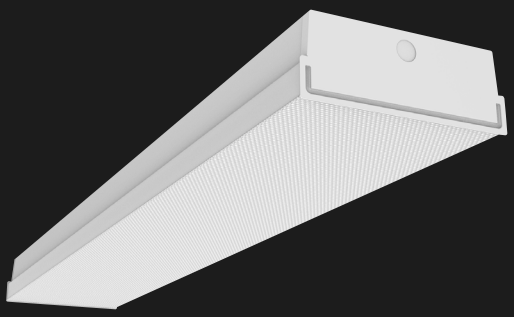
Lumination



CUSTOMER NAME _____

Project Name _____

Date _____ Type _____

Catalog Number _____

LWS Series

Switchable 4ft Narrow Surface Mount Wrap

The LWS series is an LED contractor grade wrap luminaire ideal for commercial or industrial applications. Designed for maximum flexibility with switchable lumens and CCT, one product can offer the equivalent of 9 different SKU's. LWS has a minimum five year design life with a non-glare diffuser for those with first cost needs. LWS is suitable for general indoor lighting on both new construction and retrofit solutions.

CONSTRUCTION

Housing:	Die-formed heavy-gauge steel. With smooth hemmed sides for safe handling.
Lens:	Precision formed optical assembly comprised of high specularity reflectors, and a transmissive lens.
Weights:	<10 lbs

OPTICAL SYSTEM

Lumens:	Up to 5400 lumens
Wattage:	Up to 41W
Efficacy:	Up to 138 LPW
CCT:	3500K/4000K/5000K (Field Switchable)
CRI:	80+, R9>0

ELECTRICAL

Input Voltage:	120-347V
Input Frequency:	50/60Hz
Standard Dimming Control:	0-10V, Dimming to 10%
Power Factor (PF)*:	> 0.90
Total Harmonic Distortion (THD)*:	<20%

* PF and THD may vary with options

CONTROLS

Dimming: Standard - 0-10V, Dimming

AMBIENT TEMPERATURE

TYPE	TEMPERATURE RATE
OPERATING TEMPERATURE	0°C TO +25° C

LUMEN MAINTENANCE

LXX(10K) @ Hours 50,000 HR
L70

MOUNTING

- Surface Mount w/ pre-drilled mounting holes
- Drivers and internal components accessed via bottom of luminaire.
- Ideal for industrial and commercial applications as well as stairwells, offices, and storage locations.

DESIGN LIFE & WARRANTY

- Damp Location rated
- ETL Certified
- ANSI C82.77 Compliant
- Current's Limited 5-year Warranty: Please see website.

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Ordering Information

LWS **4N** **B** **0** **8FS**

FAMILY	FIXTURE TYPE	GENERATION	VOLTAGE	SELECTABLE
LWS = Wrap Mount Switchable	**4N** = 4′ Narrow (9″)	**B** = 2nd Generation	**0** = 120-347V	**8FS** = 80 CRI, Field Selectable Lumens & CCT

ORDERING SKU	CATALOG LOGIC	DESCRIPTION	LUMINAIRE LUMENS (@4000K & MIDDLE LUMENS)	LUMINAIRE TOTAL SYSTEM WATTS	EFFICACY (LPW)
93309371	LWS4NB08FS	**4N** = 4′ Narrow (9″)	4500/4950/5400	33/36/41	138/138/132

DETAILS AT ALL SWITCH SETTINGS				
FIXTURE TYPE	WATTAGE	3500K LUMENS/LPW	4000K LUMENS/LPW	5000K LUMENS/LPW
LWS 4FT Narrow	41	5300/129	5400/132	5300/129
	36	4850/135	4950/138	4850/135
	33	4400/135	4500/138	4400/135

ACCESSORIES ORDERING GUIDE (ORDER SEPARATELY)

Accessories (Order Separately)	Part #	UPC	Notes & Restrictions
Sensor Kit			
☐ MSKIT	93310081	840141431406	Field Installable Microwave Sensor Kit

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Lumination

LWS Series

Switchable 4ft Narrow Wrap Surface Mount

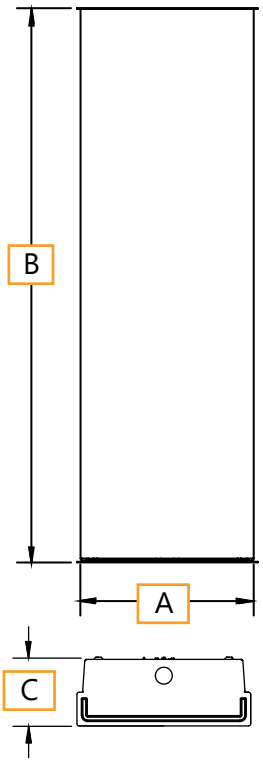
CUSTOMER NAME

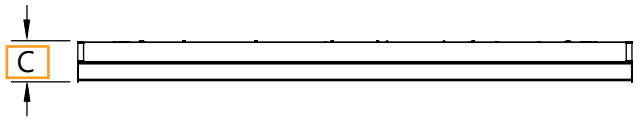
Project Name _____

Date _____ Type _____

Catalog Number _____

DIMENSIONS



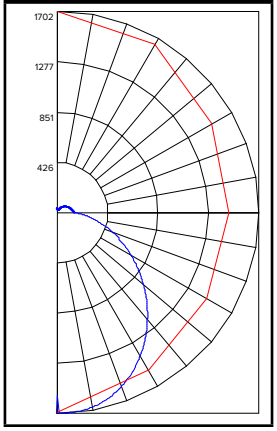


DIMENSIONS	
4W = 4' Narrow	A = 9.00 in (228.6mm) B = 48.03 in (1220mm) C = 3.54 in (90mm)

PHOTOMETRICS

Mid-Power
4000K
LWS4N08FS

POLAR GRAPH



ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	1195.27	24.1
0–40	1947.54	39.3
0–60	3451.08	69.7
0–90	4404.31	89
0–180	4950	100

LUMINAIRE DATA

Test No.	**CTLED23E19537**
Description	**LWS, 4FT, 4000K, 4950lm, 80 CRI**
Delivered Lumens	**4950**
Watts	**36**
Efficacy	**137**
Mounting	**Surface, Suspended**
Spacing Criterion	**0° = 1.16 90° = 1.32**

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	147
10-20	419
20-30	629
30-40	752
40-50	783
50-60	721
60-70	573
70-80	380
80-90	183
90-100	87
100-110	77
110-120	65
120-130	52
130-140	37
140-150	24
150-160	13
160-170	6
170-180	2

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Sensor Technical Data

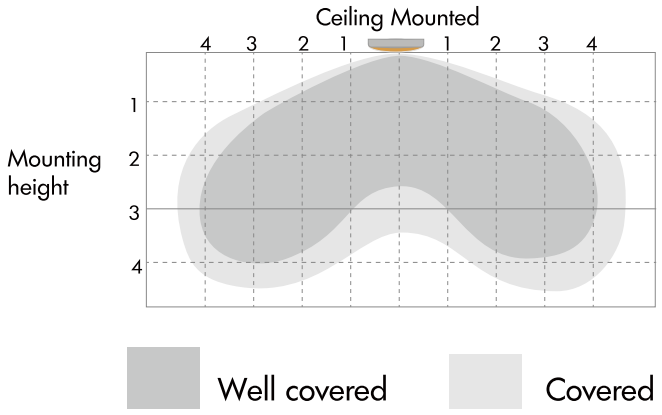
SENSOR PARAMETERS	Microwave Frequency	5.8Hz ± 75MHz
	Microwave Power	<0.3mW
		DIP Switch
	Detection Area	50%/100%
	Hold Time	10s/1min/5min/10min
	Daylight Threshold	10lux/30Lux/50Lux/Disable
	Stand-by Period	1min/ 30min/ 60min/+∞
	Stand-by Dimming Level	10% 20% 30% 50% 100%
	Mounting Height	Max. 4m (ceiling mounted)
	Detection Range	Diameter 10* 4m (Max)
	Motion Detection	0.5~+ 1m/s
	Detection Range	150° (Wall Mounted) 360° (Ceiling Mounted)
	Input Range	12VDC
	Voltage Range	10-15VDC
OTHERS	Current	≤30mA
	Signal	DIM 0-10V
	Connection	12VDC input/ Black&White wire; DIM+/ Purple wire; DIM-/ Pink wire

NOTE

1. The result is based on 1.65M/60kg medium-size man walking toward sensor with speed of 0.8m/s in a vacant room. The sensor is hanging at 3M height.
2. It may have different performance if the test is delivered by different people, with different speed, at different height or in different conditions.

Sensor Coverage

This figure indicates maximum distance at the highest mounting height with 100% sensitivity

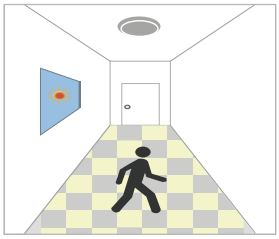


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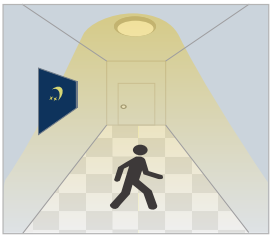
Sensor Functionality

1. AUTOMATIC ON/OFF FUNCTION

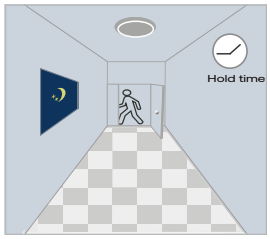
Light comes on when the sensor detects movement and off after people leave at night.
Applications: Corridors and staircases.



With sufficient daylight, even when motion is detected, light remains OFF.



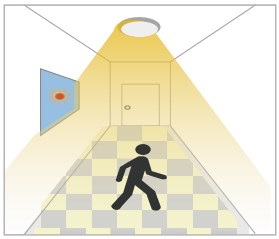
With insufficient daylight, when motion is detected, light turns ON.



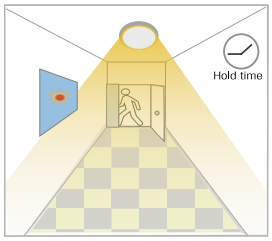
After the last detection and the present hold time is elapsed, light turns OFF.

2. NO DAYLIGHT FUNCTION

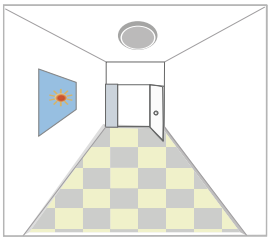
The daylight threshold is set to "Disable"
Light comes on when it detects movement. After people leave, light goes off after a stand-by period.
Applications: Dim places such as basement parking or an underpass.



When motion is detected, the sensor will switch on the light to 100% brightness

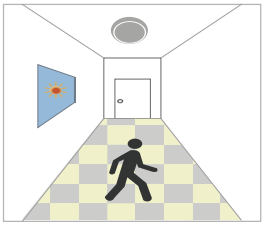


After people leave the detection area, light remains at 100% brightness within the hold time

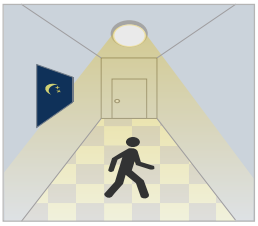


After the last detection and the present hold time is elapsted, light turns OFF.

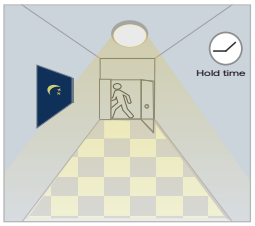
3. FUNCTION DEMO - DIMMABLE CONTROL/CORRIDOR FUNCTION



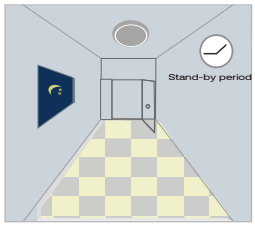
With sufficient daylight, even when motion is detected, light remains OFF.



With insufficient daylight, when motion is detected, light turns ON.



After the last detection, the light will be dimmed down to the stand-by level
(10%, 20%, 30% or 50%) after holdtime



After the stand-by period, light turns OFF

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Lumination

LWS Series

Switchable 4ft Narrow Wrap Surface Mount

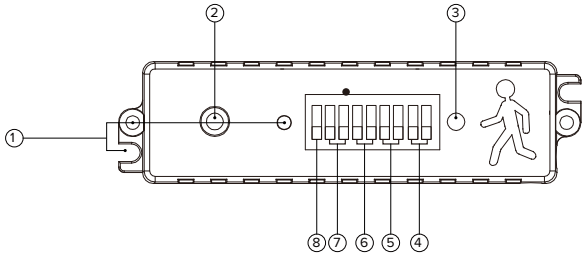
CUSTOMER NAME

Project Name _____

Date _____ Type _____

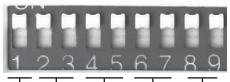
Catalog Number _____

Sensor Layout



① Installation Hole
② Antenna mo dule
③ Daylight Sensor
④ Stand-by dimming level
⑤ Stand-by Period
⑥ Daylight Threshold
⑦ Hold Time
⑧ Detection Area

DIP Switch Setting



● Switch UP
○ Switch DOWN

Factory Default Setting: All switches UP as shown

Stand-by dimming level

● ●	10%
● ○	20%
○ ●	30%
○ ○	50%

The definition of low output in the standby period.

Stand-by period

● ●	0s
● ○	30s
○ ●	20min
○ ○	+ ∞

The period of light keeping low output before it's completely switched off. When it's preset as" ∞ ", the light always keep at low output if no movement in the detection area and doesn't turn off

Daylight Threshold

● ●	Disable
● ○	50lux
○ ●	10lux
○ ○	2lux

Definition of the ambient brightness; only when the ambient brightness is lower than preset specific lux amount, -the sensor will work; when its preset as "disable", the sensor works every time it detects motion regardless of the ambient brightness

Hold-Time

● ●	5s
● ○	30s
○ ●	1min
○ ○	10min

The period of light keeping 100% brightness after moving objects leave the detection area.

Detection Area

●	100%
○	50%

In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strong sensitvity.

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