

# S20TR TRI-LEVEL MOTION SENSOR LED STRIP

## 3 CCT AND 3 POWER SELECTABLE OPTIONAL EMERGENCY REMOTE

The S20TR series of LED strips feature an integrated tri-level microwave or PIR motion sensor, preventing energy loss and increasing energy savings. These luminaires feature a rounded lens that evenly diffuses the light and an innovative housing designed for quick and easy installation. The S20TR series is the perfect choice for applications requiring continuous lighting, such as hallways, common areas, parkades and stairwells.



### FEATURES & SPECIFICATIONS

#### CONSTRUCTION

- Physical Characteristics**
- Sleek two-part housing design with tool-less entry
  - Safety cables placed between lens compartment and housing for easy installation and maintenance
  - CCT and Power Selectable switches are placed discretely inside the housing
  - 24 gauge semi-gloss white or matte black powder painted steel
  - Frosted PMMA lens
- Mounting**
- Surface, suspended or row mounted (see accessories)
  - V-Hooks and canopy plate for junction box are included

#### PERFORMANCE DATA

- Integrated tri-level microwave (high frequency) or PIR motion sensor (remote control sold separately)
- Available in 3 500/4 000/5 000 K selectable color temperature
- 80+ CRI
- Electrical ratings: 120-347 V
- Estimated life of over 156 000 hours to L70
- 2.5 kV surge protection
- Operating temperature: -20 °C to 50 °C [-4 °F to 122 °F] For S20TR-48LP80-32/3C: -20 °C to 40 °C [-4 °F to 104 °F]
- Operating temperature with BRIDGE or Emergency battery backup: -20 °C to 25 °C [-4 °F to 77 °F]

#### OPTIONAL EMERGENCY LIGHTING

##### BRIDGE Normally ON Emergency Remote LED Strip

- Consuming 11 W, 12 - 24 VDC
- 200 mA constant current
- Delivers 1 222 - 1 344 lumens in emergency mode
- Ease of maintenance when used with AimLite emergency lighting battery units complete with auto test function
- Complements AimLite's normally ON LED Strip family
- Patent pending

Please view the BRIDGE specification section for more details on this technology

#### EMERGENCY LIGHTING COMPLIANCES

- CSA certified as a C22.2 C141-15 emergency lighting luminaire
- Meets ICES-005 requirements

#### COMPLIANCES

- UL listed for Canada and USA for damp locations
- DLC Premium and Standard
- Meets requirements of ICES-005 issue 5 class A for use in commercial applications

OVERVIEW			
<b>LIGHT SOURCE</b>	LED		<b>EFFICIENCY (LM/W)</b> 130 - 160
<b>WATTS [W]</b>	20, 56	34/38/45	<b>COLOR TEMPERATURE [K]</b> 3 500/4 000/5 000
	18/25/30	44/60/80	
	25/30/40	65/75/90	
<b>LUMEN OUTPUT [LM]</b>	2 520 - 12 780		<b>CRI</b> 80+
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> <div style="text-align: center;"> </div> </div>			

<sup>1</sup> 5 year warranty for the BRIDGE module.

Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at [www.designlights.org/search](http://www.designlights.org/search).

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

## QUICK SHIP AND TECHNICAL SPECIFICATION TABLE



PART NUMBER	WATTS [W]	VOLTS [V AC]	COLOR TEMP. [K] <sup>1</sup>	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	CRI	LIFE L70 [HRS] <sup>4</sup>	TESTED HOURS LM-80 [HRS] <sup>4</sup>	FINISH	PF	THD [%]	MASTER CASE QTY
<b>24" CCT SELECTABLE</b>												
S20TR-24LA1-32/3C	20	120-347	3 500/4 000/5 000	2 640 <sup>2</sup>	132	80+	156 000	10 000	WHITE	0.90	10	6
<b>36" CCT AND POWER SELECTABLE</b>												
S20TR-36LP30-32/3C	18/25/30	120-347	3 500/4 000/5 000	2 700/3 650/4 260 <sup>3</sup>	132	80+	156 000	10 000	WHITE	0.90	10	6
<b>48" CCT AND POWER SELECTABLE</b>												
S20TR-48LP40-32/3C	25/30/40	120-347	3 500/4 000/5 000	3 875/4 500/5 680 <sup>3</sup>	132	80+	156 000	10 000	WHITE	0.90	10	6
S20TR-48LP45-32/3C	34/38/45	120-347	3 500/4 000/5 000	5 270/5 776/6 660 <sup>3</sup>	138	80+	156 000	10 000	WHITE	0.90	10	6
S20TR-48LP45323CBK	34/38/45	120-347	3 500/4 000/5 000	4 964/5 434/6 300 <sup>3</sup>	140	80+	156 000	10 000	BLACK	0.90	10	6
S20TR-48P45/3C/PIR	34/38/45	120-347	3 500/4 000/5 000	5 270/5 776/6 660 <sup>3</sup>	138	80+	156 000	10 000	WHITE	0.90	10	6
S20TR-48LP80-32/3C	44/60/80	120-347	3 500/4 000/5 000	6 864/9 600/12 400 <sup>3</sup>	155	80+	156 000	9 000	WHITE	0.90	10	6
<b>48" CCT SELECTABLE</b>												
S20TR-48LA2-32/3C	56	120-347	3 500/4 000/5 000	7 392 <sup>2</sup>	132	80+	156 000	10 000	WHITE	0.90	10	6
<b>96" CCT AND POWER SELECTABLE</b>												
S20TR-96LP90-32/3C	65/75/90	120-347	3 500/4 000/5 000	9 750/11 100/12 780 <sup>3</sup>	135	80+	156 000	10 000	WHITE	0.90	10	1
S20TR-96P90/3C/PIR	65/75/90	120-347	3 500/4 000/5 000	9 750/11 100/12 780 <sup>3</sup>	135	80+	156 000	10 000	WHITE	0.90	10	1

<sup>1</sup> Typical color temperature range: +/- 5 %.

<sup>2</sup> Lumen values are derived from DLC reported data at 3 500 K. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.

<sup>3</sup> Lumen values are based on 4 000 K default programming. Please refer to the LUMEN SPECIFICATION TABLE for more details on other color temperatures.

<sup>4</sup> Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 extrapolations.

### MICROWAVE SENSOR NOTES:

- Depending on the application, the Detection Area setting of the sensor may need to be reduced for proper detection.
- For optimal performance, the luminaire must be installed on a solid surface or structure, free from shaking and vibrations.
- To prevent sensor malfunction and false triggering, avoid installing the luminaire near areas of high vibration, such as large machinery, fans, HVAC systems and motors, as well as large metal objects and surfaces.

## LUMEN SPECIFICATION TABLE

PART NUMBER	WATTS [W]	3 500 K		4 000 K		5 000 K	
		LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]	LUMEN OUTPUT [LM]	EFFICACY [LM/W]
S20TR-24LA1-32/3C	20	2 640	132	2 800	140	2 640	132
	18	2 520	140	2 700	150	2 556	142
S20TR-36LP30-32/3C	25	3 400	136	3 650	146	3 450	138
	30	3 960	132	4 260	142	4 020	134
S20TR-48LP40-32/3C	25	3 625	151	3 875	155	3 675	147
	30	4 200	140	4 500	150	4 260	142
S20TR-48LP45-32/3C	40	5 280	132	5 680	142	5 360	134
	34	4 930	145	5 270	155	4 998	147
S20TR-48LP45-32/3C	38	5 396	142	5 776	152	5 472	144
	45	6 210	138	6 660	148	6 300	140
S20TR-48LP45323CBK	34	4 624	136	4 964	146	4 624	136
	38	5 054	133	5 434	143	5 054	133
S20TR-48LP45323CBK	45	5 850	130	6 300	140	5 850	130
	34	4 930	145	5 270	155	4 998	147
S20TR-48P45/3C/PIR	38	5 396	142	5 776	152	5 472	144
	45	6 210	138	6 660	148	6 300	140
S20TR-48LP80-32/3C	44	6 820	155	6 864	156	6 820	155
	60	9 000	150	9 600	160	9 000	150
S20TR-48LP80-32/3C	80	11 600	145	12 400	155	11 600	145
	56	7 392	132	7 784	139	7 336	131
S20TR-48LA2-32/3C	65	9 100	140	9 750	150	9 230	142
	75	10 350	138	11 100	148	10 500	140
S20TR-96LP90-32/3C	90	12 150	135	12 780	142	12 060	134
	65	9 100	140	9 750	150	9 230	142
S20TR-96P90/3C/PIR	75	10 350	138	11 100	148	10 500	140
	90	12 150	135	12 780	142	12 060	134

### DEFAULT PROGRAMMING

S20TR-24LA1-32/3C: 4 000 K

S20TR-36LP30-32/3C: 30 W / 4 000 K

S20TR-48LP40-32/3C: 40 W / 4 000 K

S20TR-48LP45-32/3C: 45 W / 4 000 K

S20TR-48LP45323CBK: 45 W / 4 000 K

S20TR-48P45/3C/PIR: 45 W / 4 000 K

S20TR-48LP80-32/3C: 80 W / 4 000 K

S20TR-48LA2-32/3C: 4 000 K

S20TR-96LP90-32/3C: 75 W / 4 000 K

S20TR-96P90/3C/PIR: 90 W / 4 000 K

## DLC UNIQUE ID TABLE

PART NUMBER	DLC PREMIUM UNIQUE ID	DLC STANDARD UNIQUE ID	DLC STANDARD UNIQUE ID
	STAIRWELL	LINEAR AMBIENT	LOW / HIGH BAY
S20TR-24LA1-32/3C	S-40P59R	S-D1AS2I	-
S20TR-36LP30-32/3C	S-YAN8V6	S-5R6K91	-
S20TR-48LP40-32/3C	S-HPOBJY	S-4K78EC	S-VK9JLW
S20TR-48LP45-32/3C	S-3B0GER	S-8N2EWH	S-7VBLH5
S20TR-48LP45323CBK	S-97VTY6	S-91B38D	S-QRHWL6
S20TR-48P45/3C/PIR	S-FX2Z5H	S-6PKP94	S-0F29VD
S20TR-48LP80-32/3C	S-FRF92F	S-SGKZSD	S-6RMM4W
S20TR-48LA2-32/3C	S-81HSD6	S-S86D4P	S-F2D7DS
S20TR-96LP90-32/3C	S-PVJXWQ	S-E9LB3W	S-CY74FW
S20TR-96P90/3C/PIR	S-63YJJN	S-YWJMBP	S-LX3RQP

## CONFIGURABLE ORDERING GUIDE

SERIES	SIZE	LAMP TYPE	LUMEN PACKAGE [W] <sup>1</sup>	VOLTS [V]	COLOR TEMP. [K]	OPTIONS
S20TR	24 - 24"	L - LED	A1 - 20	32 - 120 - 347 2 - 120 - 277 <sup>3</sup>	3C - 3 500/4 000/5 000	EL - BRIDGE NORMALLY ON EMERGENCY REMOTE <sup>4,5</sup> DL - 8 W EMERGENCY BATTERY BACKUP (120-277 V ONLY) <sup>6</sup>
	48 - 48"		P40 - 25/30/40 P45 - 34/38/45 <sup>2</sup> A2 - 56 P90 - 65/75/90 <sup>2</sup>			
	96 - 96"					

<sup>1</sup> See IES files or LUMEN SPECIFICATION TABLE for details.

<sup>2</sup> Only available for white finish luminaires with Microwave sensors.

<sup>3</sup> Only available for 48" and 96" luminaires when used with DL option.

<sup>4</sup> When in Emergency Mode with EL option, half of the 96" luminaire will remain illuminated.

<sup>5</sup> When in Emergency Mode with EL option, luminaire only consumes 11 W.

<sup>6</sup> Only available for 48" and 96" luminaires in 120-277 V.

## BRIDGE TECHNICAL SPECIFICATION TABLE

SIZE	LUMEN PACKAGE	WATTS [W]	BRIDGE WATTS [W]	BRIDGE LUMEN OUTPUT [LM]
24"	LA1	20	11	1 257
		25		1 294
	LP40	30		1 291
		40		1 222
		34		1 344
LP45	38	1 322		
	45	1 268		
	56	1 223		
96"	LP90	65		1 295
		75		1 241
		90		1 242

## EMERGENCY BATTERY BACKUP SPECIFICATION TABLE

SIZE	LUMEN PACKAGE	WATTS [W]	EMERGENCY BATTERY BACKUP WATTS [W]	EMERGENCY BATTERY BACKUP LUMEN OUTPUT [LM]	DISCHARGE TIME [MIN.]	RECHARGE TIME [HRS]	
48"	LP40	25	8	1 035	≥ 90	≥ 24	
		30		1 033			
		40		978			
	LP45	34		1 075			
		38		1 057			
		45		1 014			
	96"	LP90		56			965
				65			1 036
75			993				
		90	994				



Standard placement of the test switch and indicator light is on the end cap of the luminaire. For alternative placement, please contact your AimLite customer service representative.

## ACCESSORIES (ORDER SEPARATELY)

PART NUMBER	TYPE
BKT347-A	SUSPENSION KIT - 2 CHAINS (1 M)
KIT-STRIPS-AC10-WH	10' COMPLETE AIRCRAFT CABLE KIT WITH 5-WIRE POWER FEED AND 2 CANOPIES - WHITE
KIT-STRIPS-AC10-BK	10' COMPLETE AIRCRAFT CABLE KIT WITH 5-WIRE POWER FEED AND 2 CANOPIES - BLACK
KIT-STRIPSAC10-NCW	10' SINGLE SIDE AIRCRAFT CABLE WITH CANOPY (NON-POWER FEED) - WHITE
KIT-STRIPSAC10-NCB	10' SINGLE SIDE AIRCRAFT CABLE WITH CANOPY (NON-POWER FEED) - BLACK
BKT918	CONTINUOUS ROW MOUNTING CONNECTOR - WHITE
BKT918-BK	CONTINUOUS ROW MOUNTING CONNECTOR - BLACK
BKT912	TRANSPARENT END CAPS (SET OF 2) <sup>1</sup>
OSI-RC-HD03R	REMOTE CONTROL FOR MICROWAVE MOTION SENSOR <sup>2</sup>
OSI-RM51	REMOTE CONTROL FOR PIR MOTION SENSOR <sup>2,3</sup>
WGD912-2FT	WIRE GUARD KIT 24" - WHITE
WGD912-4FT	WIRE GUARD KIT 48" - WHITE <sup>4,5</sup>
REF693-4	REFLECTOR WINGS KIT 48" - WHITE <sup>5</sup>
LEN403-2	REPLACEMENT LENS 24"
LEN403-3	REPLACEMENT LENS 36"
LEN403-4	REPLACEMENT LENS 48"
LEN408-4	REPLACEMENT LENS 48" (WITH PIR SENSOR)
LEN403-8	REPLACEMENT LENS 96"
LEN408-8	REPLACEMENT LENS 96" (WITH PIR SENSOR)

<sup>1</sup> Not compatible with S20TR-48P45/3C/PIR & S20TR-96P90/3C/PIR.  
<sup>2</sup> The remote control is required to modify sensor programming. A single remote control can be used to program multiple sensors.  
<sup>3</sup> For use with S20TR-48P45/3C/PIR & S20TR-96P90/3C/PIR only.  
<sup>4</sup> When installed on the luminaires with integrated PIR motion sensor, the wire guard will reduce the sensor sensitivity.  
<sup>5</sup> For 96" luminaires, order 2 units.

## INCLUDED IN THE BOX



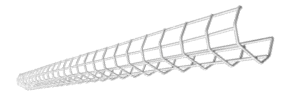
**REF693-4 [48"]**  
REFLECTOR WINGS KIT



**BKT347-A**  
SUSPENSION KIT - 2 CHAINS (1 M)



**BKT912**  
TRANSPARENT END CAPS (SET OF 2)



**WGD912-2FT [24"] / WGD912-4FT [48"]**  
WIRE GUARD KITS



**BKT918 [WHITE] / BKT918-BK [BLACK]**  
CONTINUOUS ROW MOUNTING CONNECTORS



**KIT-STRIPS-AC10-WH [WHITE] / KIT-STRIPS-AC10-BK [BLACK]**  
10' COMPLETE AIRCRAFT CABLE KITS WITH 5-WIRE POWER FEED AND 2 CANOPIES



**KIT-STRIPSAC10-NCW [WHITE] / KIT-STRIPSAC10-NCB [BLACK]**  
10' SINGLE SIDE AIRCRAFT CABLES WITH CANOPY (NON-POWER FEED)



**LEN403-2 [24"] / LEN403-3 [36"] / LEN403-4 & LEN408-4 [48"] / LEN403-8 & LEN408-8 [96"]**  
REPLACEMENT LENSES

## TRANSPARENT END CAPS

Our transparent end caps accessory is the perfect option for creating a seamless and consistent run of light when the S20TR LED strips are mounted in a continuous row. This accessory can also be used for regular installations (non-row mounted) to create a unique and pleasant 360° illumination!



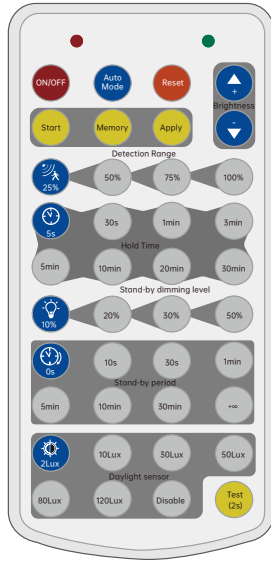
TRANSPARENT END CAPS

STANDARD END CAPS



## MICROWAVE SENSOR PROGRAMMING AND SETTINGS OPTIONS

**NOTE:** A remote control (sold separately - part number: OSI-RC-H003R) is required to modify sensor programming.  
A single remote control can be used to program multiple sensors.



BUTTON	FUNCTION	DETAILS
	ON/OFF	1. The "ON/OFF" button functions only to turn the luminaire ON or OFF. 2. If this button is pressed to turn off the luminaire before a short-circuit, the luminaire will remain turned off once the power is restored.
	Auto Mode	When the "Auto Mode" button is pressed, the sensor starts to work and all sensor settings will remain the same as before the luminaire was turned ON/OFF.
	Reset	When the "Reset" button is pressed, the sensor settings will return to the factory default settings: Brightness: 100% / Detection Area: 100% / Hold Time: 5 sec. / Standby Period: Disable / Daylight Threshold: Disable
	Detection Area	The defined area in which movement will trigger the motion sensor. <b>Options: 25% / 50% / 75% / 100%</b>
	Hold Time	The time period the luminaire remains at 100% illumination after no motion is detected. <b>Options: 5 sec. / 30 sec. / 1 min. / 3 min. / 5 min. / 10 min. / 20 min. / 30 min.</b>
	Standby Dimming Level	The level of dimmed low light output after the Hold Time in the long absence of motion. <b>Options: 10% / 20% / 30% / 50%</b>
	Standby Period	The time period the luminaire remains at a low light output level before it completely switches off in the long absence of motion. When set to "Disable" mode, the low light is maintained until motion is detected (Bi-Level). Note: "0 sec." means ON/OFF control. "+∞" means Bi-Level dimming control; the luminaire never turns off. <b>Options: 0 sec. / 10 sec. / 30 sec. / 1 min. / 5 min. / 10 min. / 30 min. / +∞ [Disable]</b>
	Daylight Threshold	The sensor will function whenever the ambient lux level is lower than the selected lux value. When set to "Disable" mode, the sensor will continuously function regardless of the ambient lux level. <b>Options: 2 lux / 10 lux / 30 lux / 50 lux / 80 lux / 120 lux / Disable</b>
	Test Mode	The button "Test (2s)" is used for testing purposes after sensor programming. When the button is pressed, the sensor enters into "Test Mode" and the luminaire will remain ON for 2 seconds.

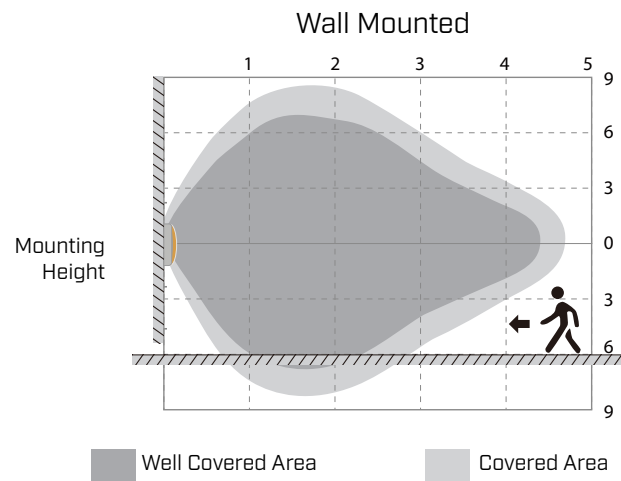
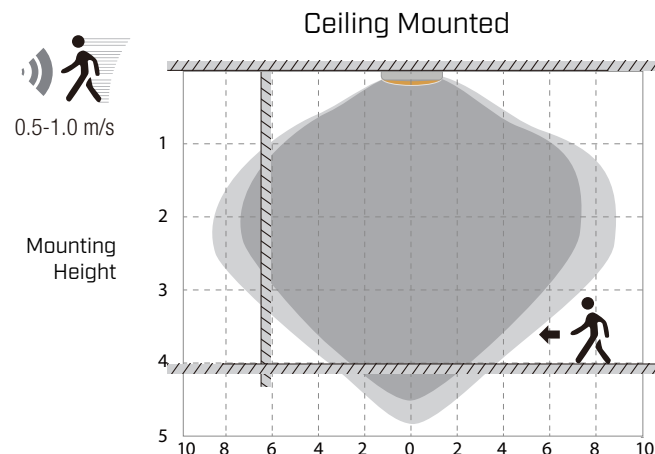
### SENSOR DEFAULT PROGRAMMING

Detection Area	100%
Hold Time	10 min.
Standby Dimming Level	50%
Standby Period	10 min.
Daylight Threshold	Disable

### SENSOR MOUNTING AND DETECTION PATTERN

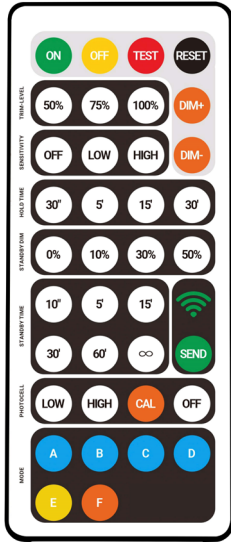
Mounting Height	14.76 ft (4.5 m) max.
Detection Range	9.84 - 22.96 ft (3 - 7 m)
Detection Angle - Ceiling Mounted	360 °
Detection Angle - Wall Mounted	150 °

### SENSOR DETECTION COVERAGE



## PIR SENSOR PROGRAMMING AND SETTINGS OPTIONS (FOR S20TR-48P45/3C/PIR & S20TR-96P90/3C/PIR ONLY)

**NOTE:** A remote control (sold separately - order code: OSI-RM51) is required to modify sensor programming.  
A single remote control can be used to program multiple sensors.



BUTTON	FUNCTION	DETAILS
ON	ON	Turns ON the luminaire.
OFF	OFF	Turns OFF the luminaire.
TEST	Test	To test for the proper functioning of the sensor, TEST Mode will last 5 minutes and then return to previous settings. <b>Test Mode Settings: Hold Time = 2 sec. / Standby Dimming Level = 50% / Standby Time = 2 sec.</b>
RESET	Reset	Resets the sensor to the following settings: <b>Trim-Level = 100% / Sensivity = HIGH / Hold Time = 5 min. / Standby Dimming Level = 30% / Standby Time = 60 min. / Photocell = OFF</b>
DIM+ / DIM-	Dim +/-	Manually dim the light output of the luminaire up or down. For smooth and continuous dimming, hold down either button.
50% / 75% / 100%	Trim-Level	Set the luminaire's maximum level of light output. <b>Options: 50% / 75% / 100%</b>
OFF / LOW / HIGH	Sensitivity	The defined level of sensitivity for the sensor to detect motion (Detection Area). Note: "OFF" = Motion sensing function of the sensor is disabled. <b>Options: OFF / LOW (50%) / HIGH (100%)</b>
30" / 5' / 15' / 30'	Hold Time	The time period in which the luminaire remains at 100% illumination after no motion is detected. <b>Options: 30 sec. / 5 min. / 15 min. / 30 min.</b>
0% / 10% / 30% / 50%	Standby Dimming Level	The level of dimmed low light output after the HOLD TIME in the long absence of motion. Note: "0%" = ON/OFF control. <b>Options: 0% / 10% / 30% / 50%</b>
10" / 5' / 15' / 30" / 60' / ∞	Standby Time	The time period the luminaire remains at a low light output level before it completely turns off, in the long absence of motion. When set to "∞" mode, the low light is maintained until motion is detected (Bi-Level). Note: "∞" = Bi-Level Dimming control, the luminaire never turns off. <b>Options: 10 sec. / 5 min. / 15 min. / 30 min. / 60 min. / ∞</b>
LOW / HIGH / CAL / OFF	Photocell	The Photocell will turn the luminaire ON or OFF, depending on the ambient light levels. When set to "OFF" mode, the Photocell is disabled. Note: "CAL" = The Photocell will measure the current ambient light level and program it to be the light level in which the luminaire is turned ON. <b>Options: LOW (3 fc) / HIGH (15 fc) / CAL / OFF (Disable)</b>
A / B / C / D	Mode	Four (4) programmable modes in which to save settings.
E		<b>Manual Mode:</b> Allows for visual adjustment to choose the desired dimming level.
F		<b>Daylight Harvesting Mode:</b> Allows for continuous dimming to maintain target light level.
SEND	Send	Send settings to the sensor.

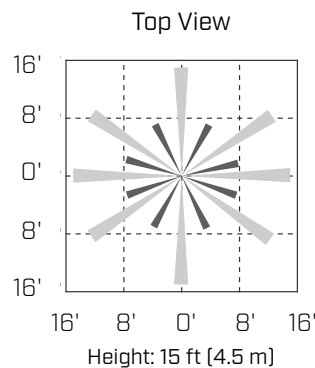
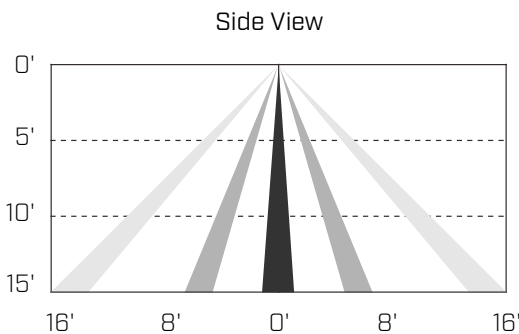
### SENSOR DEFAULT PROGRAMMING

Trim-Level	100%
Sensitivity	High
Hold Time	15 min.
Standby Dimming Level	50%
Standby Time	15 min.
Photocell	OFF

### SENSOR MOUNTING AND DETECTION PATTERN

Mounting Height	15 ft (4.5 m) max.
Detection Range	32 ft (9.75 m) max.

### SENSOR DETECTION COVERAGE



## SENSOR DAISY CHAIN FUNCTION

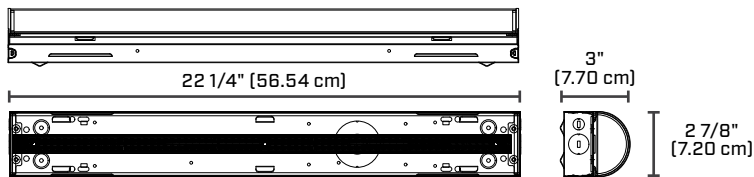
The S20TR series can be daisy chained together with S20RS series luminaires. The integrated microwave or PIR motion sensor in the S20TR will also control the S20RS luminaires. They can either be installed in a continuous row or can be placed up to 2 m apart from one another. Refer to the installation guide for proper wiring instructions.

*Recommended luminaire pairings:*

S20TR SERIES	S20RS SERIES	DAISY CHAIN MAXIMUM
PART NUMBER	PART NUMBER	
S20TR-24LA1-32/3C	S20RS-24LA1-32/3C	10 LUMINAIRES (1 S20TR + 9 S20RS)
S20TR-36LP30-32/3C	S20RS-36LP30-32/3C	10 LUMINAIRES (1 S20TR + 9 S20RS)
S20TR-48LP40-32/3C	S20RS-48LP40-32/3C	10 LUMINAIRES (1 S20TR + 9 S20RS)
S20TR-48LP45-32/3C	S20RS-48LP45-32/3C	10 LUMINAIRES (1 S20TR + 9 S20RS)
S20TR-48LP45323CBK	S20RS-48LP45323CBK	10 LUMINAIRES (1 S20TR + 9 S20RS)
S20TR-48P45/3C/PIR	S20RS-48LP45-32/3C	10 LUMINAIRES (1 S20TR + 9 S20RS)
S20TR-48LP80-32/3C	S20RS-48LP80-32/3C	10 LUMINAIRES (1 S20TR + 9 S20RS)
S20TR-48LA2-32/3C	S20RS-48LA2-32/3C	10 LUMINAIRES (1 S20TR + 9 S20RS)
S20TR-96LP90-32/3C	S20RS-96LP90-32/3C	5 LUMINAIRES (1 S20TR + 4 S20RS)
S20TR-96P90/3C/PIR	S20RS-96LP90-32/3C	5 LUMINAIRES (1 S20TR + 4 S20RS)

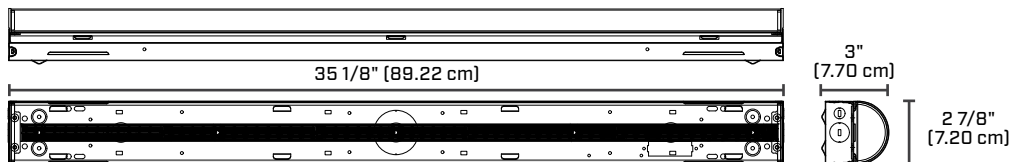
## DIMENSIONS AND WEIGHT

### 24"

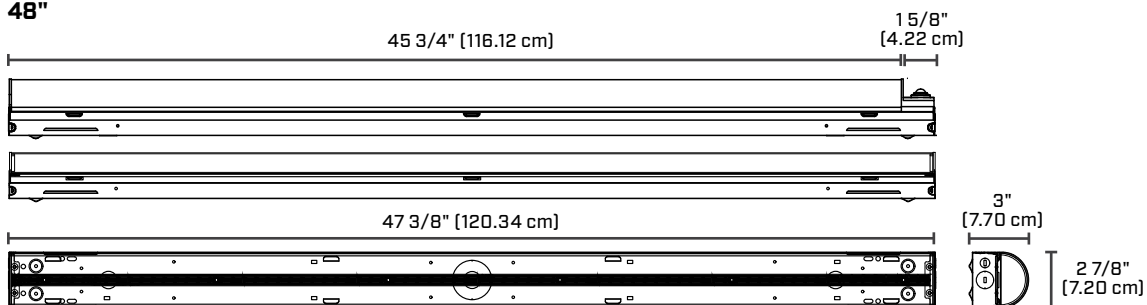


NET WEIGHT [LBS]	
24"	2.6
36"	3.5
48"	4.4
96"	8.5

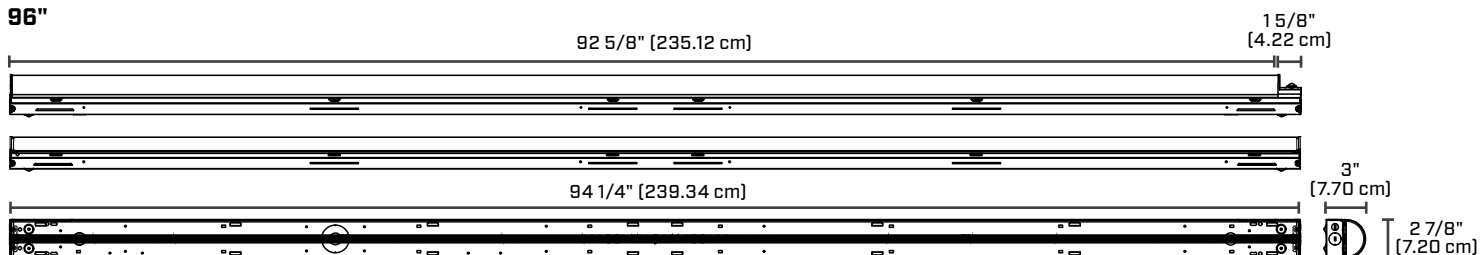
### 36"



### 48"



### 96"



## BRIDGE

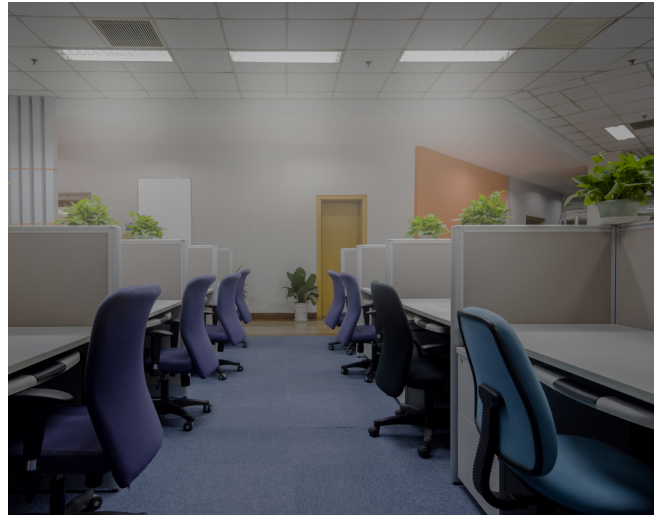
### NORMALLY ON EMERGENCY REMOTE LUMINAIRE

This luminaire can be used with an emergency backup powered by either a 12 V or 24 V DC AimLite battery unit, complete with or without auto test.

#### NORMAL MODE



#### EMERGENCY MODE



#### TYPICAL SPECIFICATION

Supply and install AimLite BRIDGE \_\_\_\_ft, LED strip, Model number: \_\_\_\_\_ remote normally DN emergency luminaire, CSA C22.2 141-15 certified and meet the requirements prescribed by ICES-005. Normally DN when AC is present and when connected to a AimLite battery unit complete with or without auto test, the luminaire shall act as an emergency lighting remote and consume 11 W of DC power in \_\_\_\_ V producing 1 222 - 1 344 lumens in emergency mode.

The remote normally DN emergency luminaire shall be powered by a AimLite emergency lighting battery unit as described herein and shown on the drawings. The AimLite auto diagnostic micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120 V, 277 V or 347 V, 60 Hz and be CSA listed. The unit shall have an output of: \_\_V and \_\_W.

The charge voltage factory set to  $\pm 1\%$  tolerance. High efficiency, rapid recovery, precision control charging system shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, when the battery is at full capacity, the charger will shut-off. Periodically the charger shall provide a pulse of energy to keep the battery topped off. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state or charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge.

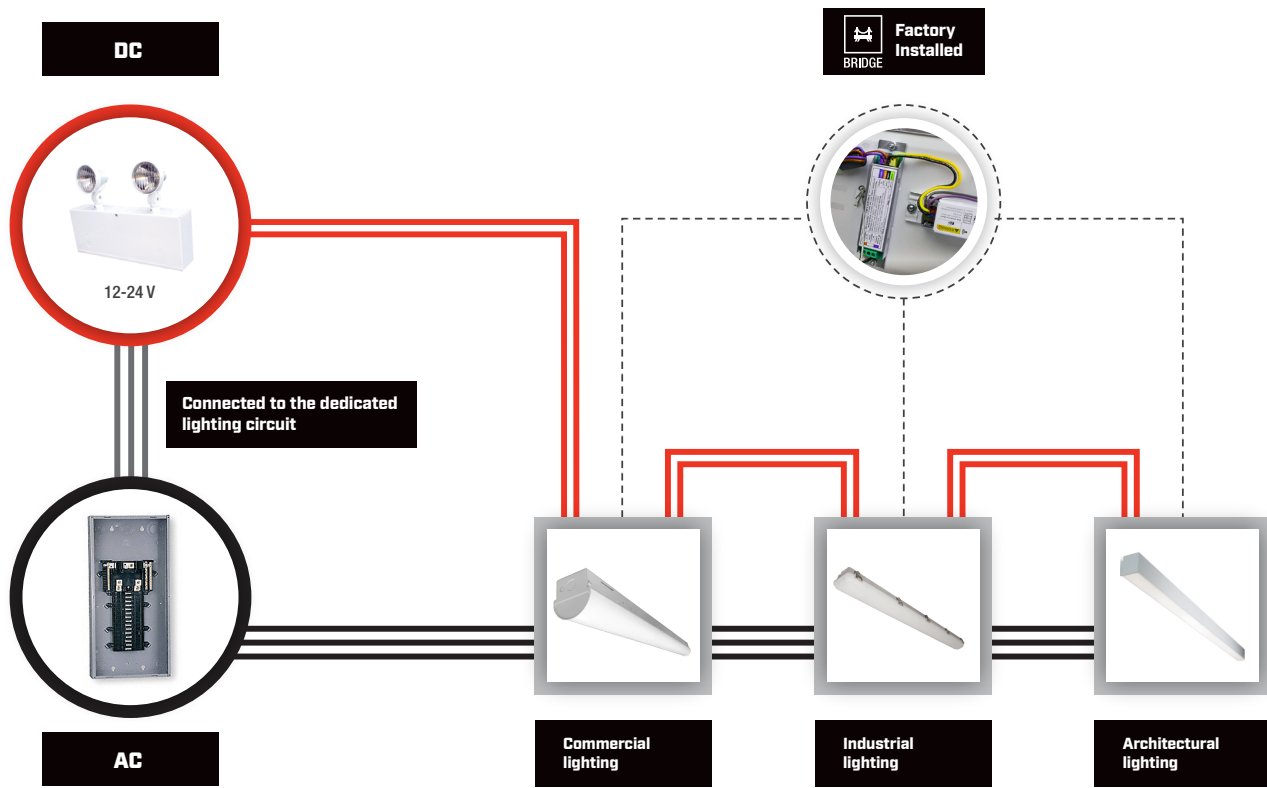
The automated testing performed by the AimLite auto test system has been designed to comply with all of the requirements of the National Fire Code. Every month, a 5 minute discharge and diagnostic test checks the operational status of the unit. Every 12 months, this test is extended to the full 30 minute, code required duration. This ensures that the battery charger is recharging the battery in accordance with code requirements.

The unit shall be AimLite model: EBST \_\_\_\_\_



## BRIDGE NORMALLY ON EMERGENCY REMOTE LUMINAIRE

# BRIDGE WIRING DIAGRAM



### LEGEND

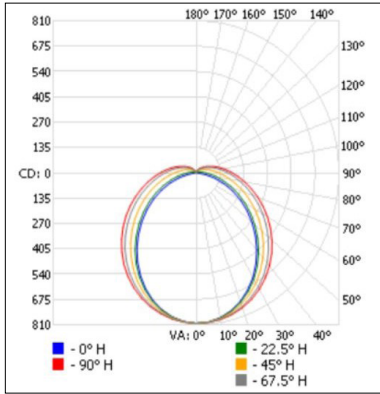
- AC wires
- Connected to the dedicated lighting circuit
- DC wires
- BRIDGE Factory Installed

Emergency mode	Spacing
S20TR	Average spacing for 1 out of every 4 luminaires, normally ON in the path of egress, when at 8, 10, or 12 foot mounting heights.

## PHOTOMETRIC DATA<sup>1</sup>

S20TR-24LA1-32/3C • 4 000 K • 2 798.0 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	619.8	22.1%
0-40	1 014.3	36.3%
0-60	1 810.2	64.7%
60-90	721.4	25.8%
70-100	506.4	18.1%
90-120	215.5	7.7%
0-90	2 531.6	90.5%
90-180	266.4	9.5%
0-180	2 798.0	100%

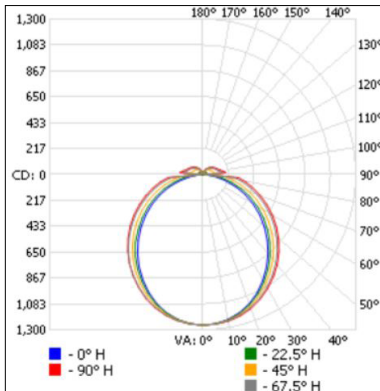
### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH
1.7'	277	
3.3'	73.6	4.1' 7.8'
5.0'	32.1	8.0' 15.1'
6.7'	17.9	12.2' 22.9'
8.3'	11.6	16.3' 30.7'
10.0'	8.02	20.2' 38.1'
		24.3' 45.9'

■ Vert. Spread: 101.2° ■ Hor. Spread: 132.9°

S20TR-36LP30-32/3C • 30 W • 4 000 K • 4 256.2 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	976.0	22.9%
0-40	1 598.3	37.6%
0-60	2 859.3	67.2%
60-90	1 018.8	23.9%
70-100	604.9	14.2%
90-120	245.2	5.8%
0-90	3 878.2	91.1%
90-180	378.0	8.9%
0-180	4 256.2	100%

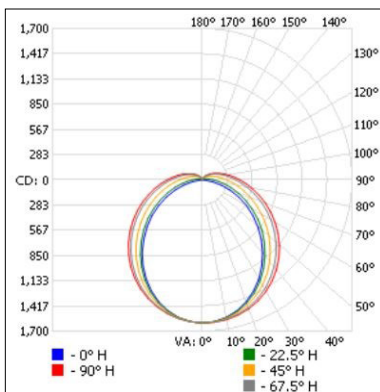
### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH
1.7'	436	
3.3'	116	4.5' 6.7'
5.0'	50.4	8.7' 12.9'
6.7'	28.1	13.2' 19.6'
8.3'	18.3	17.7' 26.3'
10.0'	12.6	22.0' 32.6'
		26.5' 39.2'

■ Vert. Spread: 105.8° ■ Hor. Spread: 126.0°

S20TR-48LP40-32/3C • 40 W • 4 000 K • 5 675.6 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 243.7	21.9%
0-40	2 036.9	35.9%
0-60	3 642.1	64.2%
60-90	1 469.0	25.9%
70-100	1 036.0	18.3%
90-120	448.9	7.9%
0-90	5 111.1	90.1%
90-180	564.5	9.9%
0-180	5 675.6	100%

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH
1.7'	556	
3.3'	148	4.2' 7.9'
5.0'	64.3	8.1' 15.3'
6.7'	35.8	12.3' 23.3'
8.3'	23.3	16.4' 31.2'
10.0'	16.1	20.3' 38.6'
		24.5' 46.5'

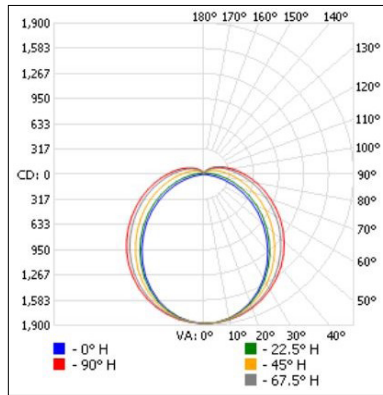
■ Vert. Spread: 101.5° ■ Hor. Spread: 133.5°

<sup>1</sup> Complete IES files available on our website.

## PHOTOMETRIC DATA<sup>1</sup>

S20TR-48LP45-32/3C • 45 W • 4 000 K • 6 655.0 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 452.3	21.8%
0-40	2 378.0	35.7%
0-60	4 253.5	63.9%
60-90	1 725.2	25.9%
70-100	1 221.8	18.4%
90-120	536.0	8.1%
0-90	5 978.7	89.8%
90-180	676.3	10.2%
0-180	6 655.0	100%

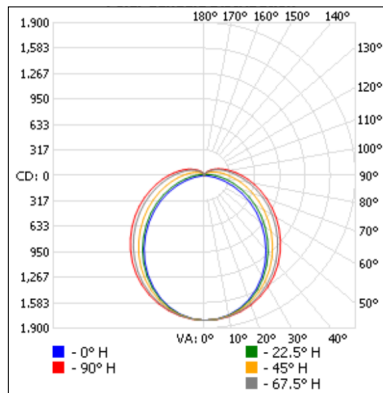
### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH
1.7'	649	
3.3'	172	8.1' 15.4'
5.0'	75.1	12.3' 23.3'
6.7'	41.8	16.5' 31.2'
8.3'	27.2	20.5' 38.6'
10.0'	18.8	24.7' 46.6'

■ Vert. Spread: 101.9° ■ Hor. Spread: 133.5°

S20TR-48LP45323CBK • 45 W • 4 000 K • 6 295.5 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1390.3	22.1%
0-40	2 273	36.1%
0-60	4 053.2	64.4%
60-90	1 624.5	25.8%
70-100	1 144.7	18.2%
90-120	494.1	7.8%
0-90	5 677.7	90.2%
90-180	617.8	9.8%
0-180	6 295.5	100%

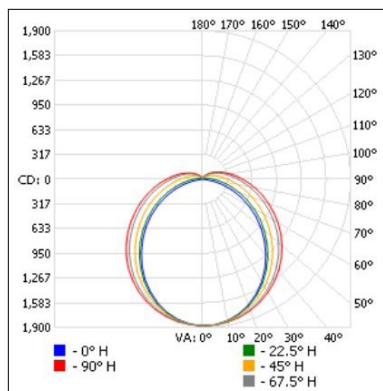
### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH
2.0'	450.4	
4.0'	112.6	9.8' 17.9'
6.0'	50	14.7' 26.8'
8.0'	28.1	19.6' 35.8'
10.0'	18	24.5' 44.7'

■ Vert. Spread: 101.7° ■ Hor. Spread: 131.8°

S20TR-48P45/3C/PIR • 45 W • 4 000 K • 6 655.0 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 452.3	21.8
0-40	2 378.0	35.7
0-60	4 253.5	63.9
60-90	1 725.2	25.9
70-100	1 221.8	18.4
90-120	536.0	8.1
0-90	5 978.7	89.8
90-180	676.3	10.2
0-180	6 655.0	100

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH
2.0'	649	
4.0'	172	8.1' 15.4'
6.0'	41.8	12.3' 23.3'
8.0'	27.2	16.5' 38.6'
10.0'	18.8	24.7' 46.6'

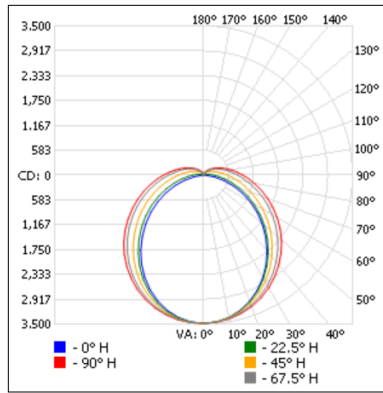
■ Vert. Spread: 101.9° ■ Hor. Spread: 133.5°

<sup>1</sup> Complete IES files available on our website.

## PHOTOMETRIC DATA<sup>1</sup>

**S20TR-48LP80-32/3C · 80 W · 4 000 K · 12 409.7 LM**

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

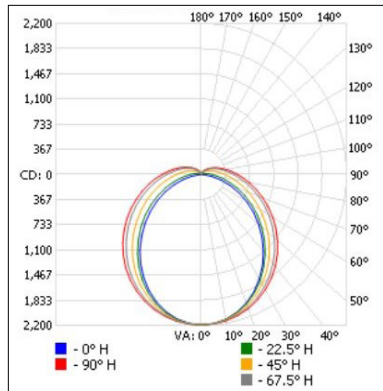
ZONE	LUMENS	% FIXTURE
0-30	2 692.6	21.7
0-40	4 406.9	35.5
0-60	7 883.2	63.5
60-90	3 219.4	25.9
70-100	2 291.9	18.5
90-120	1 025.7	8.3
0-90	11 102.6	89.5
90-180	1 307.2	10.5
0-180	12 409.7	100

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
2.0'	870.8		4.9'	18.8'
4.0'	217.7		9.8'	28.3'
6.0'	96.8		14.8'	37.7'
8.0'	54.4		19.7'	35.8'
10.0'	34.8		24.6'	44.7'
■ Vert. Spread: 101.8° ■ Hor. Spread: 134.0°				

**S20TR-48LA2-32/3C · 4 000 K · 7 778.3 LM**

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

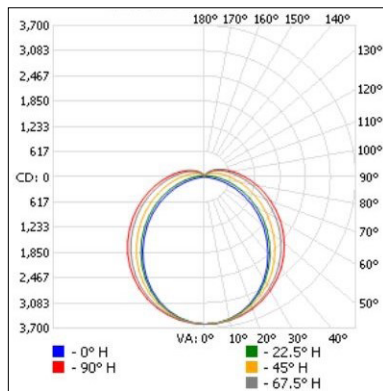
ZONE	LUMENS	% FIXTURE
0-30	1 697.9	21.8%
0-40	2 781.2	35.8%
0-60	4 976.0	64%
60-90	2 015.4	25.9%
70-100	1 425.7	18.3%
90-120	623.6	8%
0-90	6 991.3	89.9%
90-180	786.9	10.1%
0-180	7 778.3	100%

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC			BEAM WIDTH	
1.7'	759		4.2'	8.0'
3.3'	201		8.1'	15.5'
5.0'	87.7		12.3'	23.5'
6.7'	48.8		16.4'	31.5'
8.3'	31.8		20.4'	39.0'
10.0'	21.9		24.5'	47.0'
■ Vert. Spread: 101.7° ■ Hor. Spread: 133.9°				

**S20TR-96LP90-32/3C · 90 W · 4 000 K · 12 770.5 LM**

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	2 786.8	21.8%
0-40	4 563.1	35.7%
0-60	8 162.1	63.9%
60-90	3 310.5	25.9%
70-100	2 344.6	18.4%
90-120	1 028.6	8.1%
0-90	11 472.6	89.8%
90-180	1 297.9	10.2%
0-180	12 770.5	100%

### ILLUMINANCE AT A DISTANCE

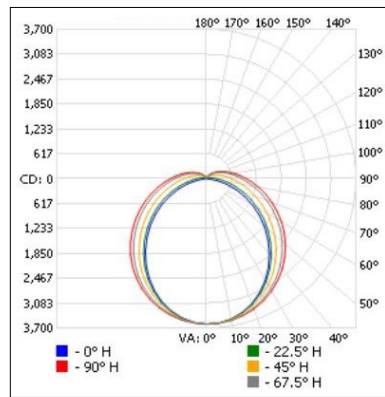
CENTER BEAM FC			BEAM WIDTH	
1.7'	1 246		4.2'	7.9'
3.3'	331		8.1'	15.4'
5.0'	144		12.3'	23.3'
6.7'	80.2		16.5'	31.2'
8.3'	52.3		20.5'	38.6'
10.0'	36.0		24.7'	46.6'
■ Vert. Spread: 101.9° ■ Hor. Spread: 133.5°				

<sup>1</sup> Complete IES files available on our website.

## PHOTOMETRIC DATA<sup>1</sup>

S20TR-96P90/3C/PIR • 45 W • 4 000 K • 6 855.0 LM

### POLAR CANDELA DISTRIBUTION



### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	2 786.8	21.8
0-40	4 563.1	35.7
0-60	8 162.1	63.9
60-90	3 310.5	25.9
70-100	2 344.6	18.4
90-120	1 028.6	8.1
0-90	11 472.6	89.8
90-180	1 297.9	10.2
0-180	12 770.5	100

### ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH
Distance	Footcandle	
1.7'	1 246	4.2' 7.9'
3.3'	331	8.1' 15.4'
5.0'	144	12.3' 23.3'
6.7'	80.2	16.5' 31.2'
8.3'	52.3	20.5' 38.8'
10.0'	36.0	24.7' 46.6'

■ Vert. Spread: 101.9° ■ Hor. Spread: 133.5°

<sup>1</sup> Complete IES files available on our website.