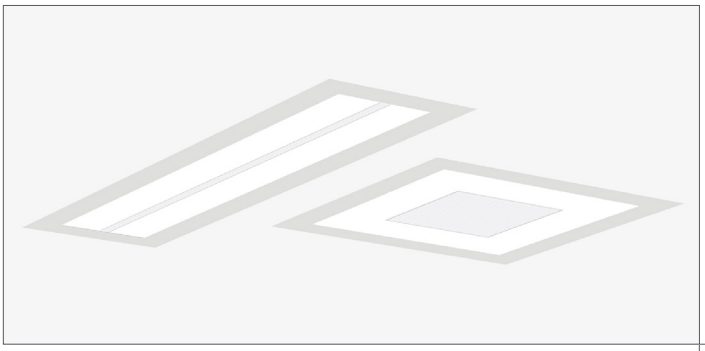
METALUMEN SPECIFICATION SHEET

SCENE SCEM

MEDICAL . LED . RECESSED . DIRECT

Medilumen™ Healthcare Lighting

PART #:	
PREP BY:	DATE:
PROJECT:	QTY:
NOTES:	
APPROVAL SIGNATURE:	DATE (DD/MM/YYYY):



PERFORMANCE SUMMARY @ 3500K		2X2			1X4	
		PQ	QQ / CC	SD	PS	SD
Light Level		L1				
Lumens	80 CRI	2053	2042	2227	1905	2037
Wattage		24	24	24	21	21
Efficacy	80 CRI	86	85	93	91	97
L70 Estimate (h)		≥ 60,000 hrs				

See page 2 for the complete Light Level Performance chart.

- Specification Grade Edgelit Light Guide Luminaire
- Efficacy up to 97 LPW
- Suitable for dry or damp locations
- Remote driver

5 YEAR WARRANTY · cULus LISTED E488140 · MR · CCEA APPROVED CHICAGO PLENUM · DAMP

OTHER SCENE PRODUCTS

Scene

Scene Photo Graphics

ORDERING LOGIC

Example Part Number: SCEM-2L35K-22-QQ-AM-L31-D-1-NRF

SCEM									N	
1	2	3	4	5	6	7	8	9	10	11

1. SERIES

SCEM

2. COLOR TEMP

2L30K 3000K
2L35K 3500K
2L40K 4000K
2L50K 5000K

3. CONFIGURATIONS

Single / Alone Units

22 2x2 ft
14 1x4 ft

2x2' Configurations

B **E** **H**
C **F** **I**
D **G**

1x4' Configurations

J **K** **L**

M Custom configuration

See next page for configuration diagrams

4. OPTICS

2x2'

PQ Perforated Square
QQ Square in Square
CC Circle in Circle
SD Standard Diffuser

1x4'

PS Perforated Strip
SD Standard Diffuser

CUSTOM GRAPHIC
Must be ordered through the SCENE PHOTO GRAPHICS Spec Sheet

5. FINISH

W White
AM Antimicrobial White Paint
C Custom Finish
Specify RAL:

6. LIGHT LEVEL / DRIVER

2x2' Optics Lumen Codes

CODE*	PQ	QQ / CC	SD
L1	2053	2042	2227
L2	2947	2816	3185
L3	3316	3251	3581
L4	3794	3852	4090

1x4' Optics Lumen Codes

CODE*	PS	SD
L1	1905	2037
L2	3727	4068
L3	5668	5814
L4	6469	6522

***Please note Light Level Codes have been updated in accordance with UL certification standards.**

Refer to the Light Level Performance chart on the next page for additional information.

Select Driver below.

7. CIRCUITRY

1 1 Circuit
EM Emergency / Night Light
B Emergency Battery Pack

8. MOUNTING

D Recessed Drywall
T Recessed T-Bar

9. VOLTAGE

1 120 V
2 277 V
3 347 V
4 UNV (120 - 277V)

10. CONTROLS / SENSORS

N None

11. OPTIONS

N None
RF Medical Power Line Filter (Remote)

Select Driver:
- ☐ **FD** Factory option 0-10V, 1% Dimming
- ☐ **D2** DALI
- ☐ **LHE** Lutron H-Series Hi-lume 1% EcoSystem LED Driver
- ☐ **L5E** Lutron 5-Series EcoSystem LED Driver

Light Level Performance | 3500K, 80 CRI, 0-10V Dimming (Standard)

2x2												
Optics	Perforated Square (PQ)			Square in Square (QQ)			Circle in Circle (CC)			Standard Diffuse (SD)		
Light Level	Lumens	Wattage	Efficacy (LPW)	Lumens	Wattage	Efficacy (LPW)	Lumens	Wattage	Efficacy (LPW)	Lumens	Wattage	Efficacy (LPW)
L1	2053	24	86	2042	24	85	2042	24	85	2227	24	93
L2	2947	37	80	2816	37	76	2816	37	76	3185	37	86
L3	3316	43	77	3251	43	76	3251	43	76	3581	43	83
L4	3794	51	74	3852	51	76	3846	51	75	4090	51	80

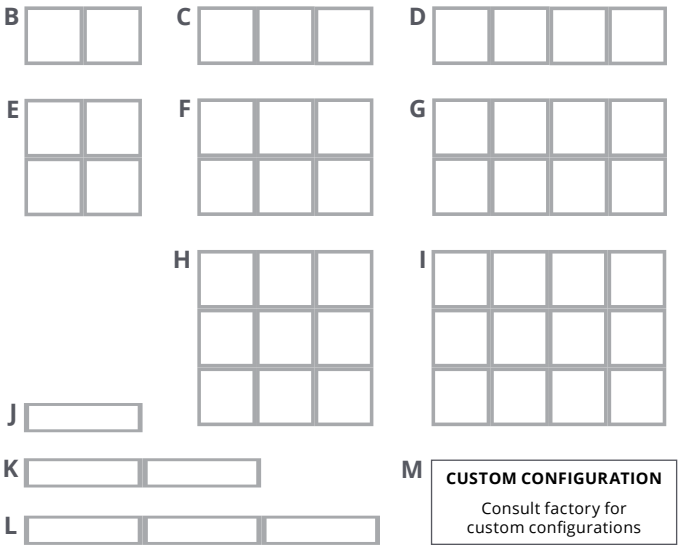
1x4						
Optics	Perforated Strip (PS)			Standard Diffuse (SD)		
Light Level	Lumens	Wattage	Efficacy (LPW)	Lumens	Wattage	Efficacy (LPW)
L1	1905	21	91	2037	21	97
L2	3727	48	78	4068	48	85
L3	5668	74	77	5814	74	79
L4	6469	85	76	6522	85	77

Lumen Adjustment Factor

Color Temp	80 CRI	90 CRI
3000K	0.984	0.880
3500K	1.000	0.875
4000K	1.032	0.879
5000K	1.032	0.879

Metalumen's light level performance metrics are subject to manufacturers component tolerances.

CONFIGURATIONS



M **CUSTOM CONFIGURATION**
Consult factory for custom configurations

STANDARD OPTICS

PQ Perforated Square

QQ Square in Square

CC Circle In Circle

SD Standard Diffuse

PS Perforated Strip

SD Standard Diffuse

To clean the optics:
Gently wipe down the optics with a clean, dry cloth to remove any dust and light residues. For heavier smudges, spray clean cloth with mild soap and water solution and gently wipe optics surface.
Warning: Hard wiping and abrasive cloths will scratch the optics.
Do not use cleaning products containing alcohol or acetone which will damage the optics.

SPECIFICATIONS

Due to the Continuous Improvement Policy at Metalumen, we reserve the right to change our specifications without notice.

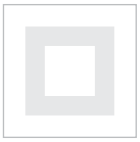
Housing: Luminaire body is constructed with 20 gauge aluminum and welded seams.
Optical System: The light emitted from the mid-flux LEDs is channeled inside Metalumen's AccuRay® optical plane where a precisely controlled micro dot matrix pattern directs, shapes and distributes the light throughout the material. A high performance optical reflector and diffuser further guide and extract the light with superb efficiency and beam control. Standard optics available. Custom graphics must be ordered through the SCENE PHOTO GRAPHICS Spec Sheet.
CRI: 83+ (3500K) (80 minimum) Consult factory for 90+ CRI.
Lumen Maintenance: At an ambient operating temperature of 25°C the LED lifetime expectancy ≥ 60 000hrs at L70.
Finish: The luminaire housing and associated parts are finished in highly reflective, matte powder coat white paint (91% reflectance) or antimicrobial white paint. For custom finish, consult factory.
Mounting: Suitable for 9/16" and 15/16" T-Bars. Mounting brackets/clips provided.
Drivers: Metalumen offers dimming* drivers as a standard on our entire LED product offering at 0-10V. Dimming range is 1%-100%. Power factor is > 90%. Class 2 rating. One driver box per luminaire is provided.
RFI Filter: The noise suppression filter provides exceptional suppression of broadband, common mode, and differential mode noise across a wide frequency range, ensuring stable, interference-free power converter operation. Effective above 30kHz, it adapts dynamically to operational conditions, reducing harmonics and mitigating high-frequency parasitics for optimal performance. When installed, the RFI filter is placed inside a remote driver box.
MRI RF Shielding: All wiring entering/exiting the MRI suite shall be routed through RF-filtered penetrations by others. Metalumen is not responsible for RF shielding or system filtering.
Approvals: Certified to NRTL safety and IES Recommended testing standards. All components are UL/CSA/QPS recognized or listed, RoHS, LM79, LM80 and LM82 compliant. This product is cULus listed and retains the listing with the remote battery pack. Plenum - CCEA Approved.
Environment: Suitable for dry or damp locations.

**Standard drivers compatible with passive/sinking dimmers. Please contact Metalumen if active/sourcing dimmer support is required.*

WARRANTY

Metalumen will warrant defective luminaires for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specification. If defective, Metalumen will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Metalumen.

PHOTOMETRIC DATA - 3500K, 80 CRI



Optics: **Square in Square**
IES File: **SCE-2L35K-22-QQ-L3**
Lumens: **3251** Wattage: **43**
Efficacy: **76 LPW**

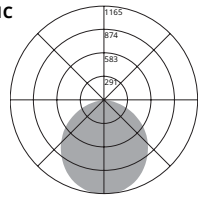
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-90	3251	100
90-180	0	0
0-180	3251	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle 0	45	90
45	3736	3736	3736
55	3571	3571	3571
65	3294	3294	3294
75	2750	2750	2750
85	1553	1553	1553

PHOTOMETRIC CURVE
100% Down



Optics: **Circle in Circle**
IES File: **SCE-2L35K-22-CC-L3**
Lumens: **3251** Wattage: **43**
Efficacy: **76 LPW**

Optics: **Perforated Square**
IES File: **SCE-2L35K-22-PQ-L3**
Lumens: **3316** Wattage: **43**
Efficacy: **77 LPW**

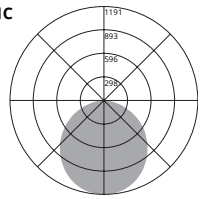
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-90	3316	100
90-180	0	0
0-180	3316	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle 0	45	90
45	3834	3834	3834
55	3674	3674	3674
65	3376	3376	3376
75	2736	2736	2736
85	1195	1195	1195

PHOTOMETRIC CURVE
100% Down



Optics: **Standard Diffuse**
IES File: **SCE-2L35K-22-SD-L3**
Lumens: **3581** Wattage: **43**
Efficacy: **83 LPW**

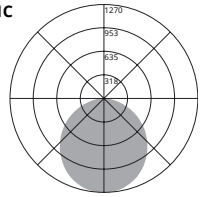
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-90	3581	100
90-180	0	0
0-180	3581	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle 0	45	90
45	4039	4053	4068
55	3872	3890	3908
65	3590	3606	3639
75	3050	3090	3117
85	1969	1969	2009

PHOTOMETRIC CURVE
100% Down



Optics: **Perforated Strip**
IES File: **SCE-2L35K-14-PS-L3**
Lumens: **5668** Wattage: **74**
Efficacy: **77 LPW**

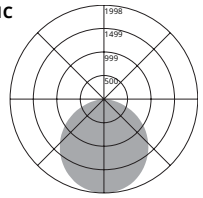
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-90	5668	100
90-180	0	0
0-180	5668	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle 0	45	90
45	6999	6999	6999
55	6743	6743	6743
65	6274	6274	6274
75	5303	5303	5303
85	3209	3209	3209

PHOTOMETRIC CURVE
100% Down



Optics: **Standard Diffuse**
IES File: **SCE-2L35K-14-SD-L3**
Lumens: **5814** Wattage: **74**
Efficacy: **79 LPW**

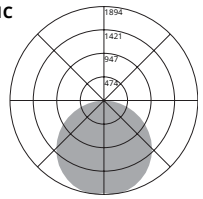
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-90	5814	100
90-180	0	0
0-180	5814	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle 0	45	90
45	5180	5121	4912
55	5142	5039	4731
65	5084	4880	4392
75	5005	4562	3705
85	5614	4289	2132

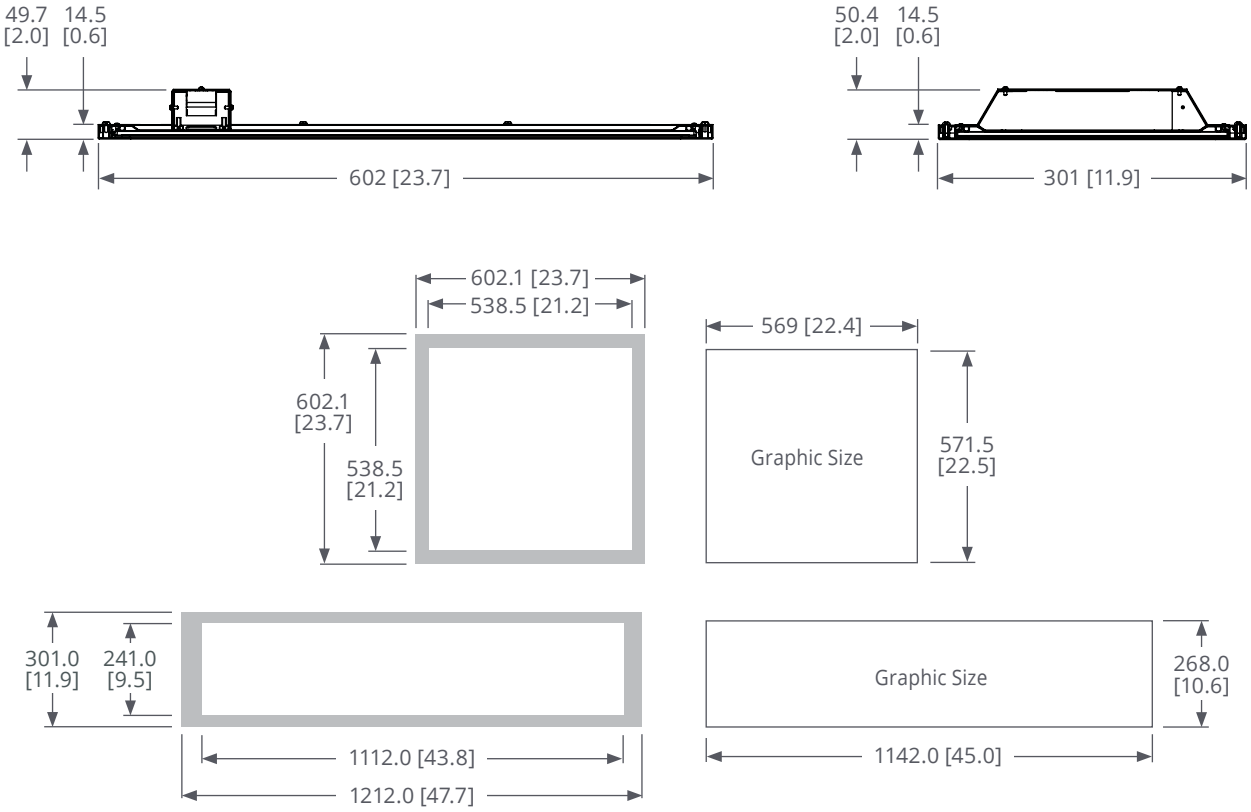
PHOTOMETRIC CURVE
100% Down



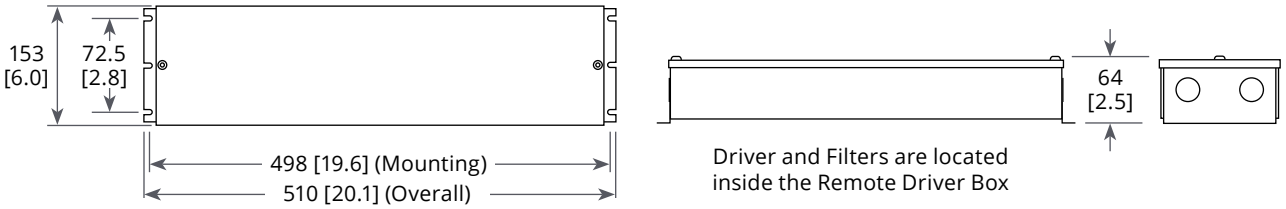
Photometric performance is measured and scaled in accordance with IESNA LM-79.

DIMENSIONS

Product Body and Lens



Remote Driver Box

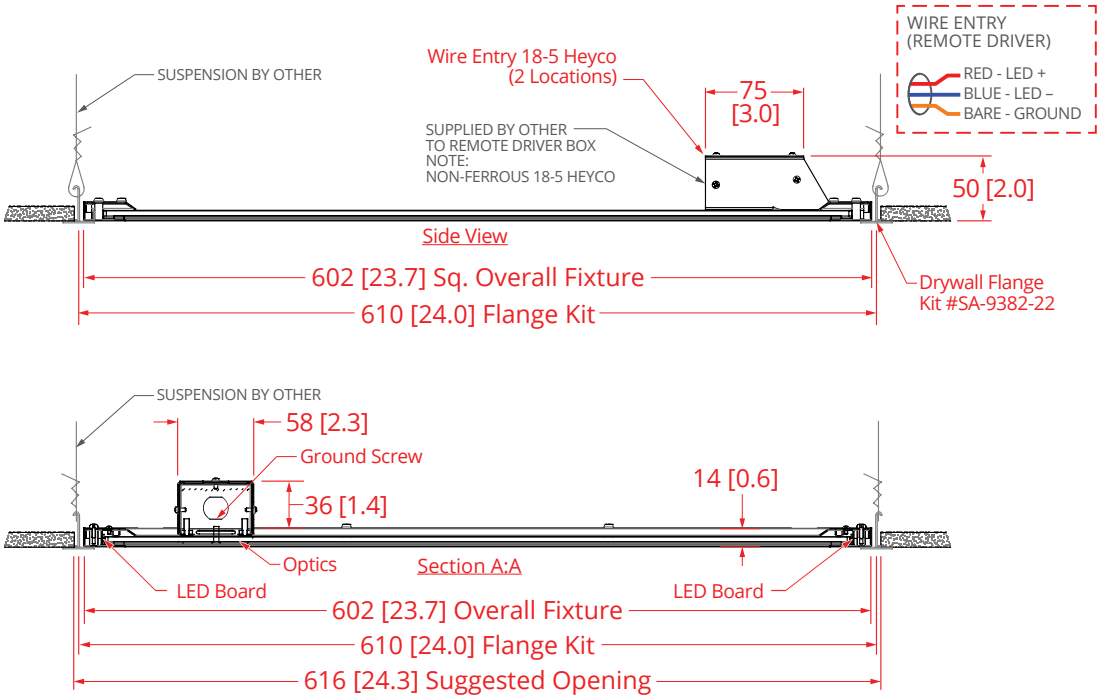


Driver and Filters are located inside the Remote Driver Box

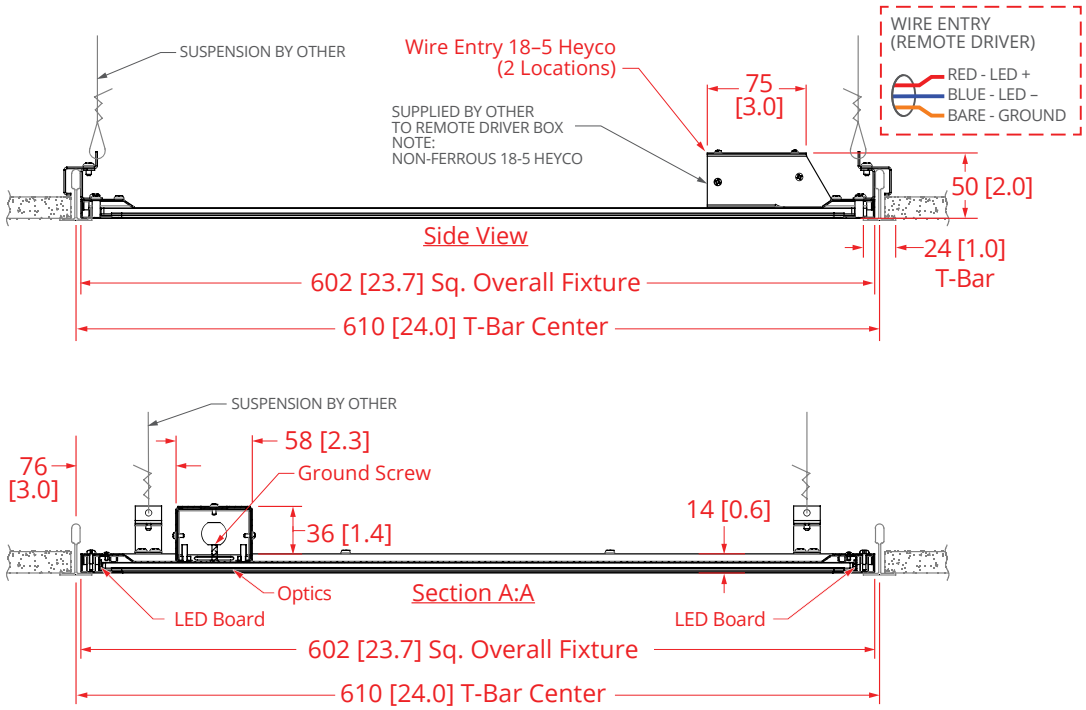
Remote Driver Mounting Maximum Wire Length									
Light Level	Driver Qty.	Driver Current (mA)	Fixture Length	Distance in feet / Wire Gauge					
				22 Ga.	20 Ga.	18 Ga.	16 Ga.	14 Ga.	12 Ga.
L1	1	700	2x2	13	42	67	107	170	280
L2	1	1050	2x2	8	28	45	71	113	180
L3	1	1200	2x2	7	25	39	62	99	157
L4	1	1400	2x2	6	21	34	53	85	135

CROSS SECTIONS | 2x2

Recessed Drywall

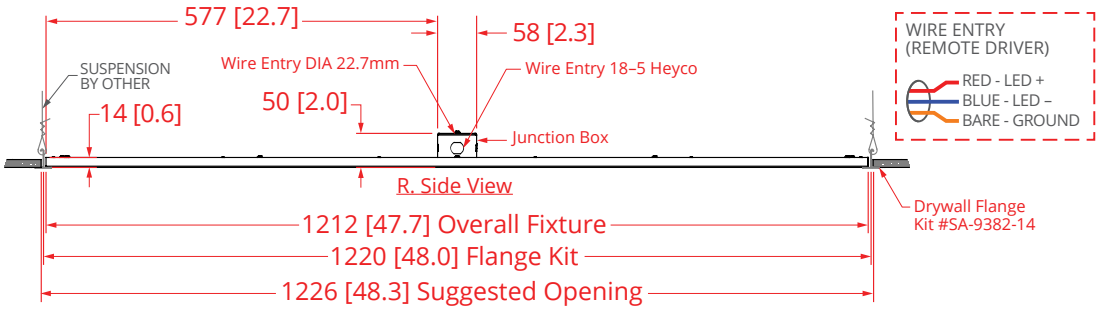


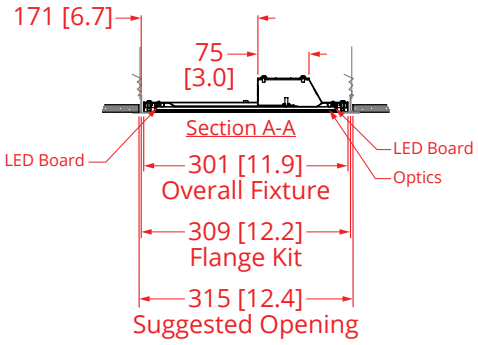
Recessed T-Bar

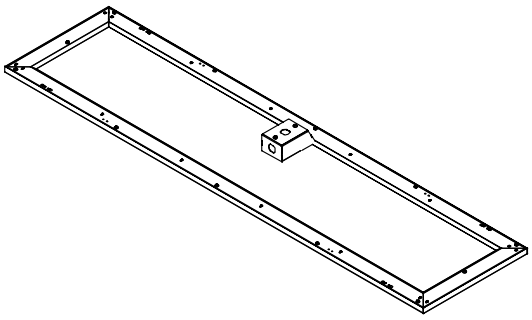
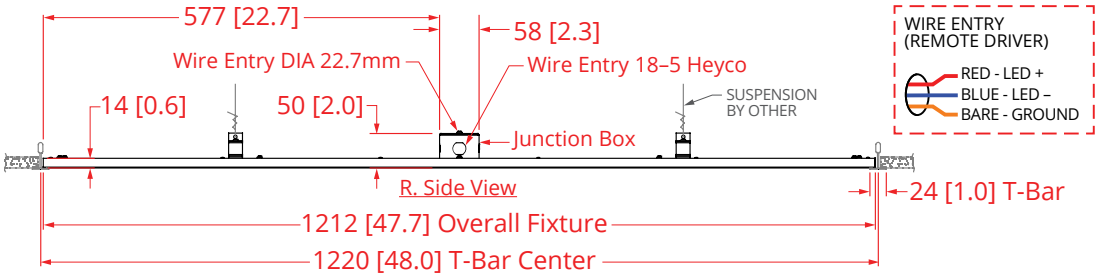
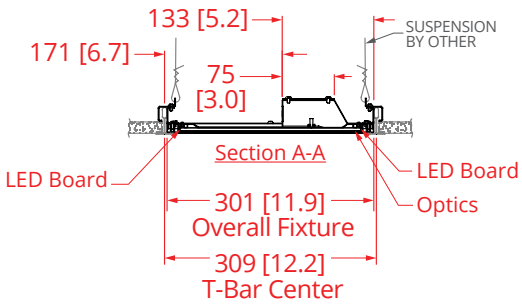
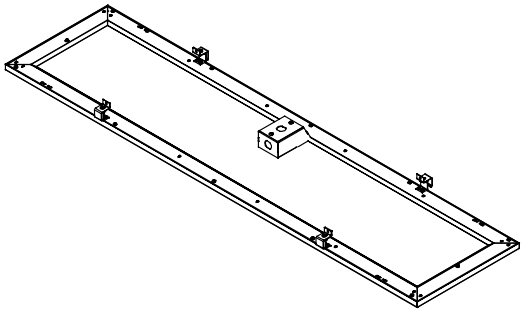


CROSS SECTIONS | 1x4

Recessed Drywall







Recessed T-Bar