Model: HLC-FPS-MEA-LED
Fan Filter Supply Diffuser with Integral LED Lighting Roomside Replaceable Filter, Roomside Accessible Motor & Electronics

Construction Options

Plenum Material
☐ 304 Stainless Steel
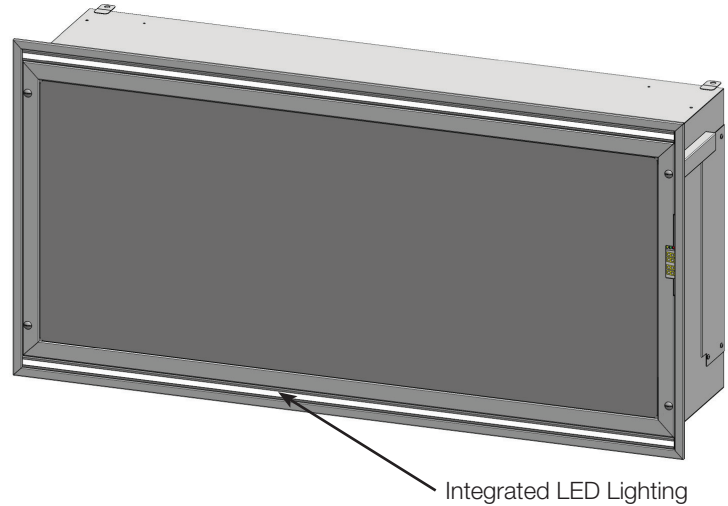☐ 316 Stainless Steel

Face Material
☐ Aluminum
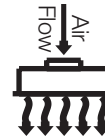☐ 304 Stainless Steel
☐ 316 Stainless Steel

Inlet Options
☐ No Inlet with Pre-filter
☐ _____ Round Inlet (6, 8, 10, 12, 14)
　　☐ No Pre-filter
　　☐ Pre-filter Kit

Filter Type
☐ HEPA Filter (2 in pack)
☐ High Flow HEPA Filter (4 in pack)
☐ ULPA Filter

Integrated LED Lighting

ETL LISTED
CONFORMS TO
UL STD 507
CERTIFIED TO C22.2 NO. 113

Intertek
CAN/CSA STD

Air Flow

Electronic Options

Motor Voltage
☐ 120VAC - 2.8 FLA
☐ 208VAC - 2.6 FLA
☐ 240VAC - 2.3 FLA
☐ 277VAC - 1.9 FLA

Face Control & Display (Standard)
☐ MODBUS RTU Controller
☐ BACnet Controller

Airflow Sensor (Standard)

On/Off Indicator: Yellow LED (Standard)

Airflow Indicator: Green LED (Standard)

☐ Filter Indicator: Red LED
☐ Continuous Filter Monitoring

LED Lighting Options

UL Listed - 1598 Standard for Luminaires
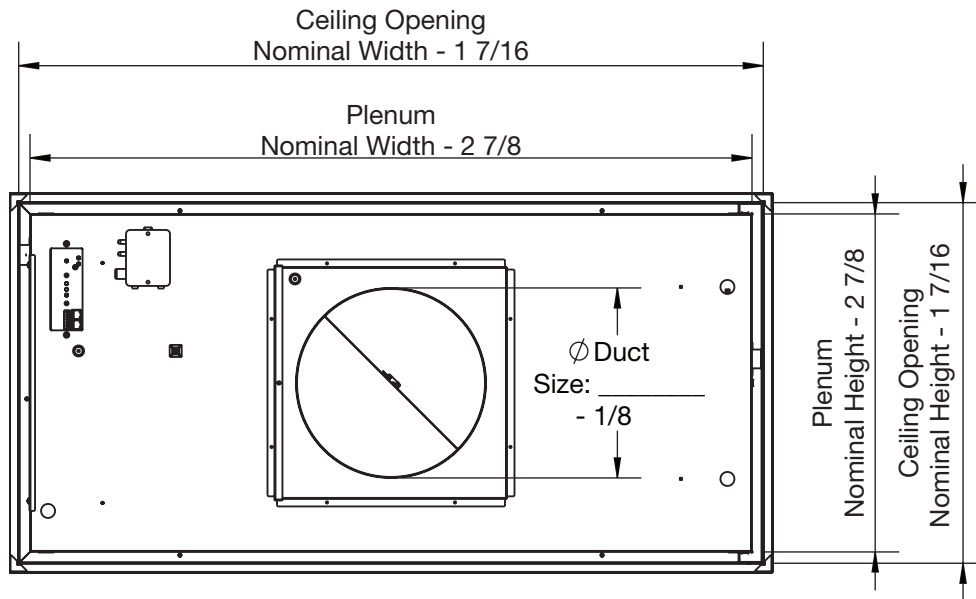120-277V, 100W, 0-10V Dimmable, Class 2 Driver

☐ Tunable White: 2700K - 6500K; 90+ CRI

☐ Tunable Green to White: Green-525nm to 6500K; 90+ CRI

☐ Fixed Color Temperature
　　☐ Factory pre-set _____
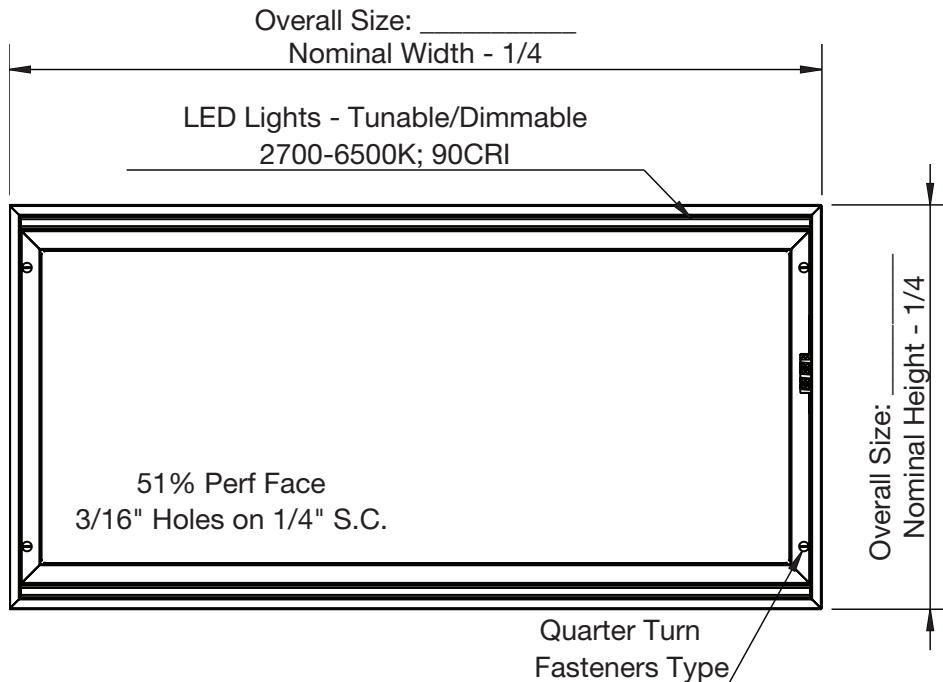
☐ Battery Backup: 20% of light for up to 90 minutes

90 CRI　　DIMMABLE LED　　LED

1. Available Finishes	2. Available Accessories	3. Available Options	4. Construction Details
01 White	Basic Wall Controller (one per unit)	Round Ducted Inlet **without** Pre-filter	• Integrated Surgical LED Lighting; 90+ CRI
01 SS White	MODBUS RTU to BACnet Gateway	Round Ducted Inlet **with** Pre-Filter	• 0-10V Dimmable, Class 2, 120-277V Driver
23 Satin Polish	T-Bar Plaster Frame	HEPA or ULPA Filters	• Fully Welded Knife Edge Frame
		Tunable White LEDs	• Roomside Replaceable Filter
		Tunable Green LEDs	• Roomside Accessible Motor & Electronics
		Factory Set Color Temperature	• Field Configurable Motor Operation - Constant flow or constant speed
		90 Minute Battery Backup	
		External 1-1/2" Foil Faced Insulation	• Aerosol Distribution Manifold Static Pressure and Aerosol Challenge test port
		OSP Approved Seismic Brackets	All Dimensions ±1/16"

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Ceiling Opening
Nominal Width - 1 7/16

Plenum
Nominal Width - 2 7/8

Plenum
Nominal Height - 2 7/8

Ceiling Opening
Nominal Height - 1 7/16

∅ Duct
Size: _____
- 1/8

Available Sizes
24 x 24
36 x 24
48 x 24

Overall Size: _____
Nominal Width - 1/4

LED Lights - Tunable/Dimmable
2700-6500K; 90CRI

Overall Size: _____
Nominal Height - 1/4

51% Perf Face
3/16" Holes on 1/4" S.C.

Quarter Turn
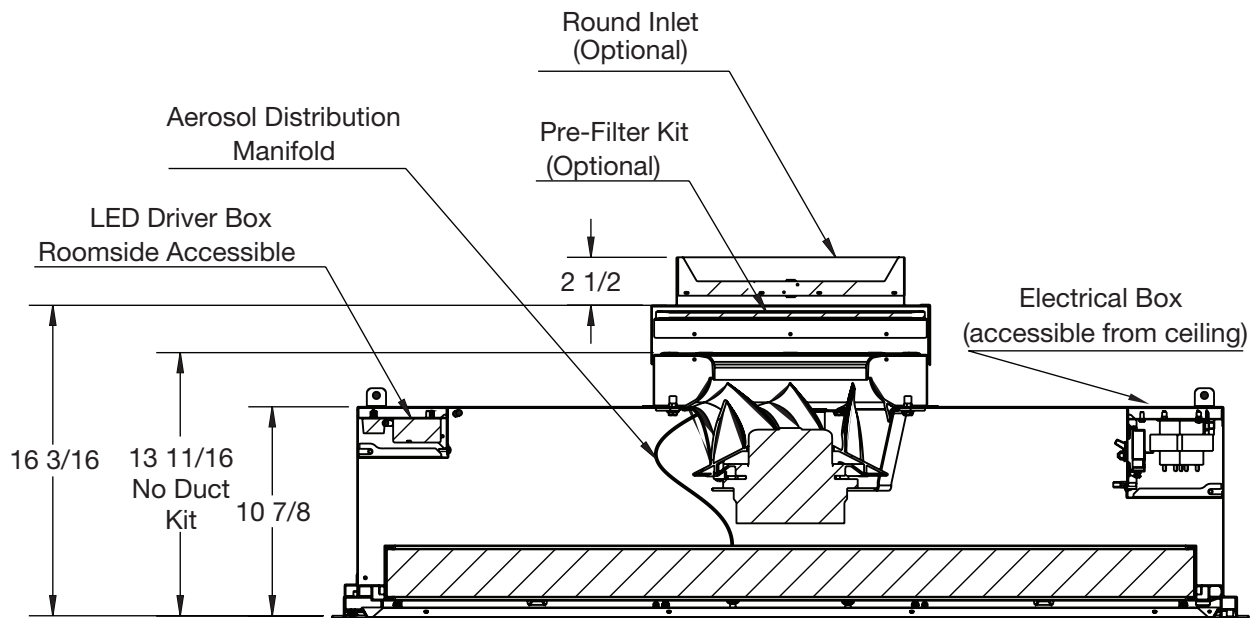Fasteners Type

Model: HLC-FPS-MEA-LED
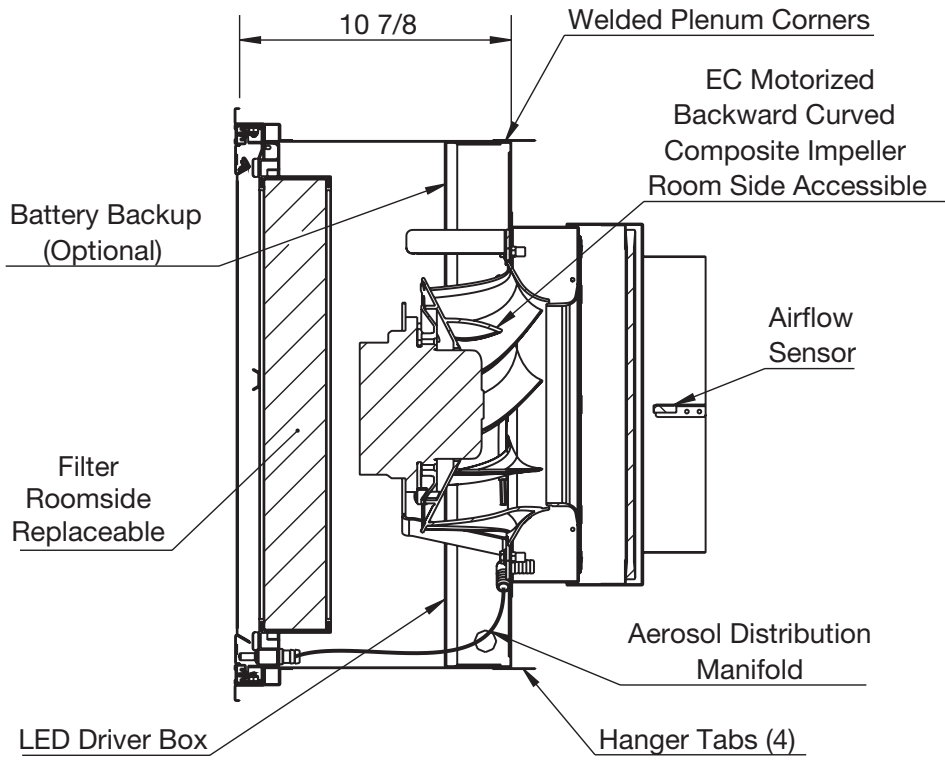Fan Filter Supply Diffuser with Integral LED Lighting Roomside Replaceable Filter, Roomside Accessible Motor & Electronics

10 7/8

Welded Plenum Corners

EC Motorized
Backward Curved
Composite Impeller
Room Side Accessible

Battery Backup
(Optional)

Airflow
Sensor

Filter
Roomside
Replaceable

Aerosol Distribution
Manifold

LED Driver Box

Hanger Tabs (4)

Round Inlet
(Optional)

Aerosol Distribution
Manifold

Pre-Filter Kit
(Optional)

LED Driver Box
Roomside Accessible

2 1/2

Electrical Box
(accessible from ceiling)

16 3/16   13 11/16
No Duct
Kit   10 7/8

Model: HLC-FPS-MEA-LED
Fan Filter Supply Diffuser with Integral LED Lighting Roomside Replaceable Filter, Roomside Accessible Motor & Electronics
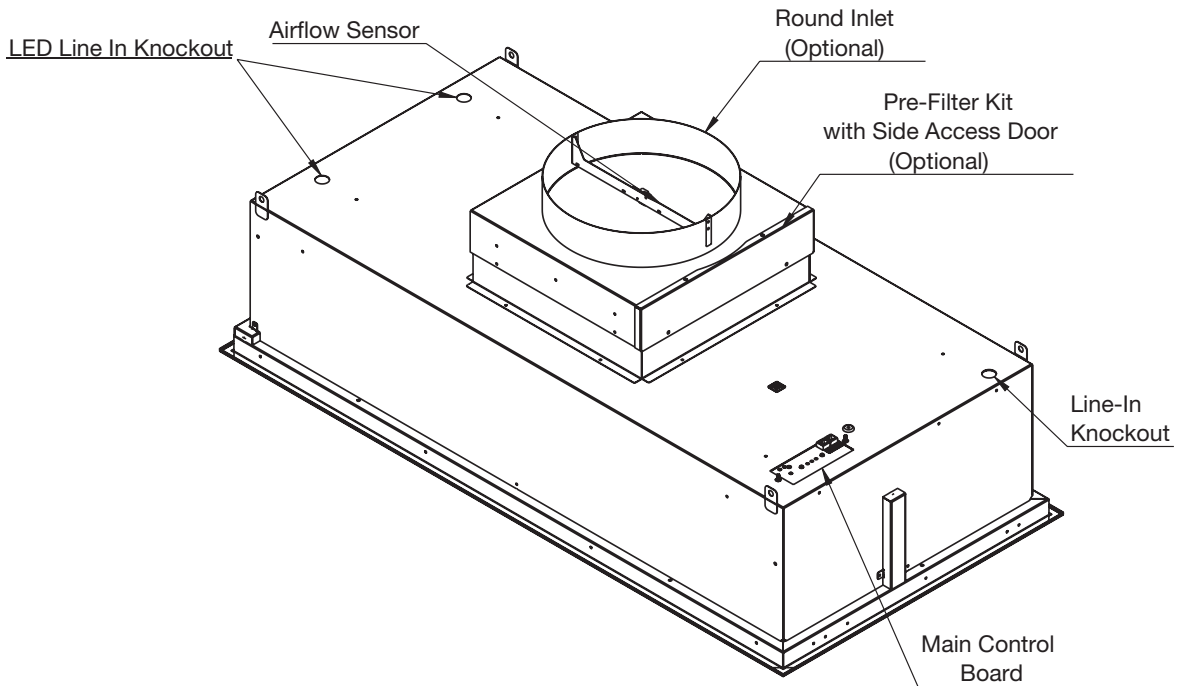

LED Driver Box Roomside Accessible
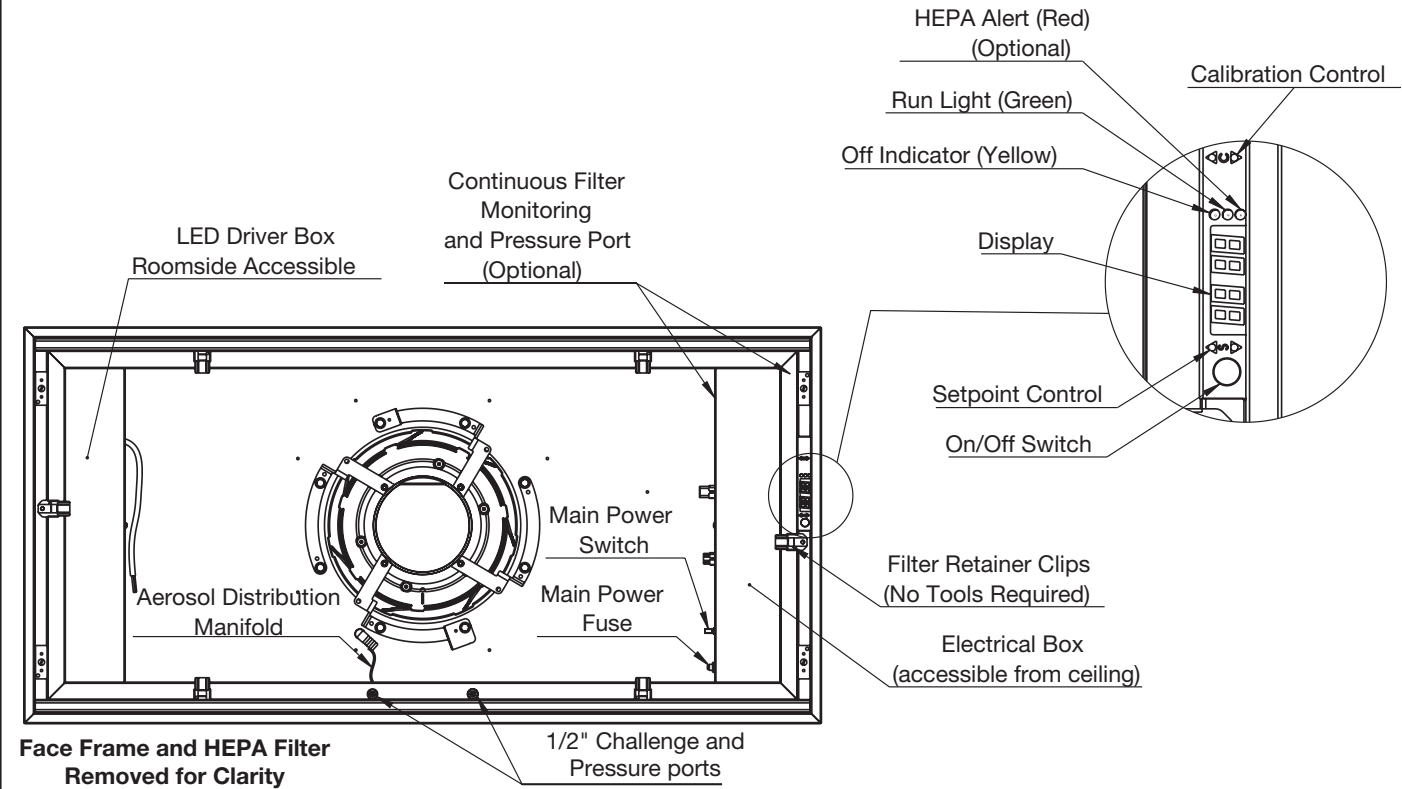
Continuous Filter Monitoring and Pressure Port (Optional)

HEPA Alert (Red) (Optional)

Run Light (Green)

Off Indicator (Yellow)

Calibration Control

Display

Setpoint Control

On/Off Switch

Main Power Switch

Main Power Fuse

Aerosol Distribution Manifold

Filter Retainer Clips (No Tools Required)

Electrical Box (accessible from ceiling)

Face Frame and HEPA Filter Removed for Clarity

1/2" Challenge and Pressure ports

LED Line In Knockout

Airflow Sensor

Round Inlet (Optional)

Pre-Filter Kit with Side Access Door (Optional)

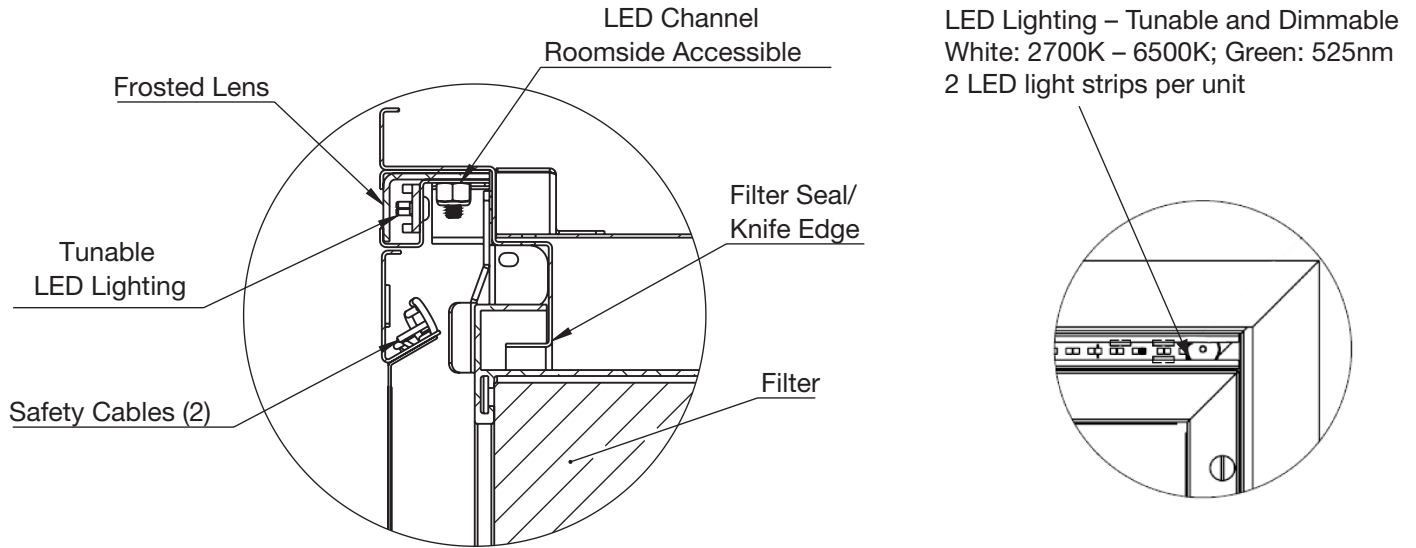Line-In Knockout

Main Control Board

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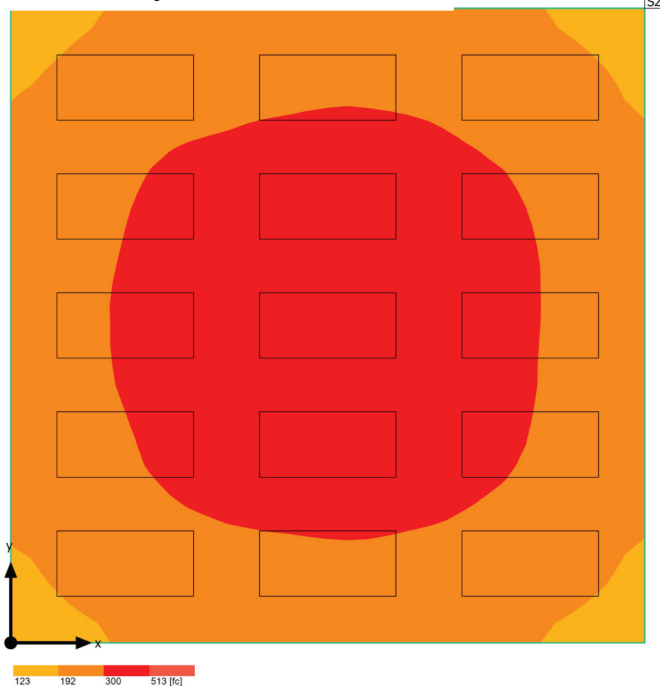
LED Lighting Details

LED Channel
Roomside Accessible

Frosted Lens

Filter Seal/
Knife Edge

Tunable
LED Lighting

Safety Cables (2)

Filter

LED Lighting – Tunable and Dimmable
White: 2700K – 6500K; Green: 525nm
2 LED light strips per unit

LED Lighting Illumination Example

48 x 24 SSLF-LED Example Lighting

Building 1 · Storey 1 · Room 1 (Light scene 4 (Room 1))
Calculation objects

| 123 | 192 | 300 | 513 [fc] |

Work planes

Room Parameters:

18 Ft SQ - 10 Ft. Ceiling Height
3 Ft. Working Plane
Example Layout with 48 x 24 LED Diffusers
Lighting will vary depending on actual room conditions
Does not account for any additional lighting in the room

Properties	Ē (Target)	E_{min}	E_{max}	g_1	g_2	Index
Workplane (Room 1) Perpendicular illuminance (adaptive) Height: 3.000 ft, Wall zone: 0.000 ft	277 fc (≥ 92.9 fc) ✓	151 fc	351 fc	0.55	0.43	☐