

## DESCRIPTION

The Define series by Neo-Ray characterizes the ultimate in minimalist simplicity by providing clean, uniform lines of illumination in virtually any architectural environment. Powered by Eaton's most advanced linear LED technology, the Define series delivers outstanding efficacy in a variety of profile widths. 1", 2", 3", 4" and 5" luminaire widths are all specifiable to the nearest inch in length and can be fitted with standard flush, regress and drop lensing. In wall corners and wall to ceiling transitions can all be ordered as standard components and blend seamlessly into the most complex architectural spaces. Custom transitions are also available. Robust construction and adaptable, modular components make installation simple and ensure laser straight runs.

## SPECIFICATION FEATURES

### Construction

Housing trim extruded from 6063 aluminum. Nominal 2' -12' illuminated sections. Used in run configuration and/or individual fixtures. All components are RoHs compliant.

### Lens

Snap in lens available in flush and drop lens profiles. End brackets include closure to prevent moisture and insect ingress.

### Finish

Fixture housing trims are high reflectance white using electrostatically applied polyester powder coat paint.

### Mounting

Recessed.

### Electrical

Long-life LED system coupled with electrical driver to deliver optimal performance. LED's are available in 2700K, 3000K, 3500K or 4000K with a typical CRI  $\leq 85$ . Projected life is 60,000 hours at 86% lumen output. Electronic drivers are available for 120-277V applications. Fixtures and electrical components certified to UL and CUL standards. Fixtures are damp location listed and IC rated. For Chicago plenum, specify CP in fixture options.

### Controls

Equipped standard with a 0-10V continuous dimming driver compatible with most standard dimming devices (refer to website for specific compatibility reference). Combine with FifthLight DALI and other energy saving products like sensors, daylighting controls and building management systems to maximize energy savings.

### Warranty

Five year warranty.

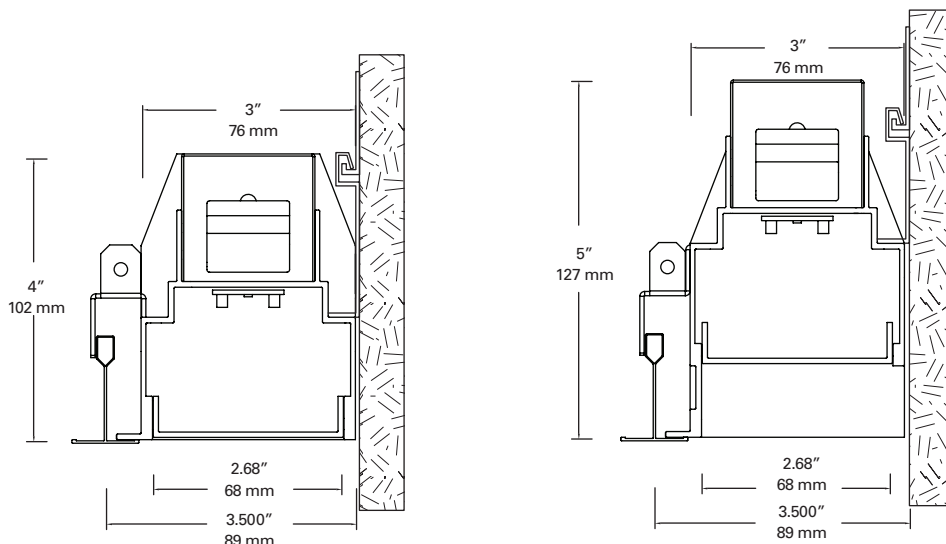


## DEFINE 3

LED

Recessed Perimeter  
Direct

cULus - 1598  
Damp Location Listed  
LM79/LM80 Compliant  
ROHS Compliant



3.125" (79mm) cut-out for gypsum installation

## ORDERING INFORMATION

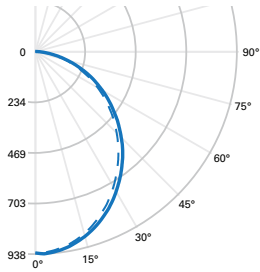
Sample Number: S123-DR-2-35-ETG-0048-1-U-DD-1-W

Series	Light Distribution	Light Level <sup>(1)</sup>		Color Temperature	Celing Type <sup>(2)</sup>	Length <sup>(3)</sup>	
S123 = Define 3	DRP = Direct Recessed Perimeter	LO = Light Level LO (1740 Lms @ 28 W) (435 Lumens per ft @ 5 W)		27 = LED 2700K	ETG = 15/16" T-Grid	0024 = 2' Individual <sup>(4)</sup>	
	RDRP = Regressed Direct Recessed Perimeter	1 = Light Level 1 (2380 Lms @ 28 W) (595 Lumens per ft @ 7 W)		30 = LED 3000K	FTG = 9/16" T-Grid	0036 = 3' Individual <sup>(4)</sup>	
		2 = Light Level 2 (3503 Lms @ 44 W) (875 Lumens per ft @ 11 W)		35 = LED 3500K	STG = 9/16" Slot T-Grid	0048 = 4' Individual	
				40 = LED 4000K	ETT = 15/16" Tegular T-Grid	0072 = 6' Individual	
					FTT = 9/16" Tegular T-Grid	0096 = 8' Individual	
					GYP = Gypsum board	0144 = 12' Individual	
					FSR = "Flangeless" Gypsum Board	XXXX = Configurable Run <sup>(5)</sup>	
					FES = "Finished" Extruded Side		
Circuiting	Voltage	Remote LED Driver	Emergency Options	Options <sup>(9)</sup>		Shielding	Color
1 = Single Circuit 2 = Dual Circuit	1 = 120V 2 = 277V U = Universal (120V-277V) 3 = 347V <sup>(6)</sup>	ED = Non-Dimming DD = 0-10 Volt Dimming 5L = DALI Dimming <sup>(7)</sup>	B = Battery Pack <sup>(8)</sup> E = Emergency T = Transfer Switch	CP = Chicago Plenum SV = Integrated Sensor CR = Corner	1 = Satin Flush Diffuser 4 = Satin Drop Diffuser	W = Matte White S = Silver B = Black C = Custom Color	

## PHOTOMETRICS

## Neo-Ray - Define - Recessed - Perimeter

All data certified to LM-79 standards in a NAVLAB approved testing facility



**FILE NAME: S123-DR-1-35-ETG-0048-1-U-DD-1-W**

**CCT: 3500K**

**LUMENS: 2380 Lms**

**WATTS: 28 W**

**LPW: 85 LPW**

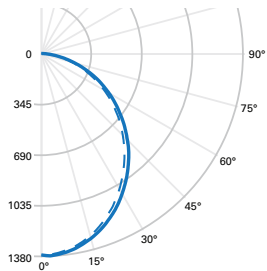
**TEST NUMBER: P33912**

### ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	698	29
0°-40°	1121	47
0°-60°	1914	80
0°-90°	2380	100

### LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	0°	45°	90°
45°	8562	8304	8106
55°	8006	7762	7518
65°	7379	7023	6769
75°	6191	5983	5734
85°	4072	4072	4072



**FILE NAME: S123-DR-2-35-ETG-0048-1-U-DD-1-W**

**CCT: 3500K**

**LUMENS: 3503 Lms**

**WATTS: 44 W**

**LPW: 79 LPW**

**TEST NUMBER: P33923**

### ZONAL LUMENS SUMMARY

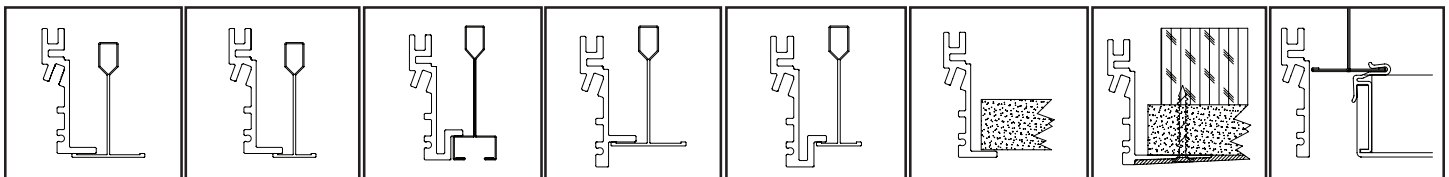
Zone	Lumens	% Fixture
0°-30°	1027	29
0°-40°	1649	47
0°-60°	2818	80
0°-90°	3503	100

### LUMINANCE DATA (CD/M<sup>2</sup>)

Vertical Angle	0°	45°	90°
45°	12684	12212	11908
55°	11812	11418	11043
65°	10891	10407	9924
75°	9182	8642	8227
85°	6046	6046	5676

## MOUNTING

Extruded Trim Flange Details - Refer to submittal drawings for detailed flange information - for additional options consult factory.



ETG 15/16"  
T-Grid

FTG 9/16"  
T-Grid

STG Slotted  
T-Grid

ETT 15/16"  
Tegular  
T-Grid

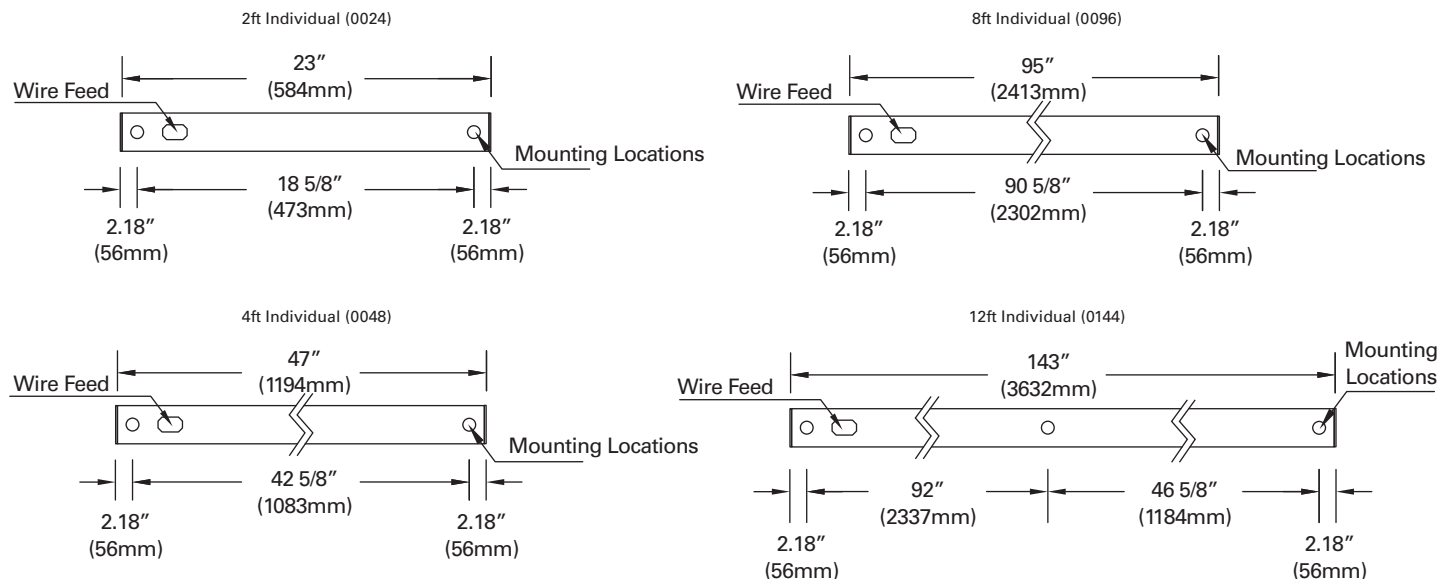
FTT 9/16"  
Tegular  
T-Grid

GYP  
Gypsum  
Board

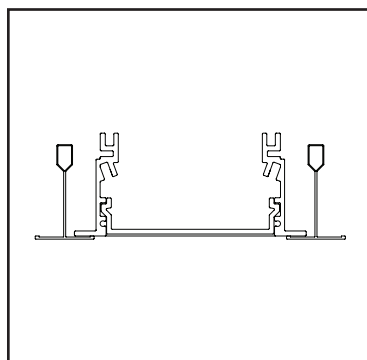
FSR  
"Flangeless"  
Gypsum Board

FES  
Finished  
Extruded Side

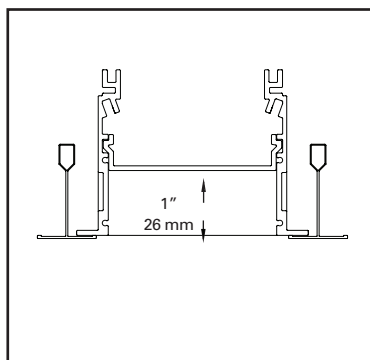
Mounting Information - Refer to installation instructions for detailed mounting information



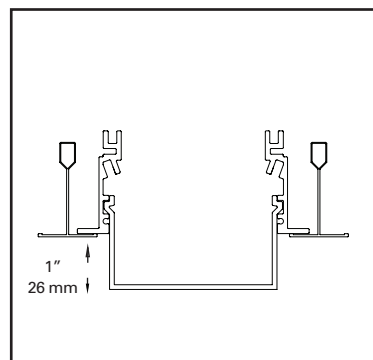
## LENS DETAIL



Flush Satin Lens



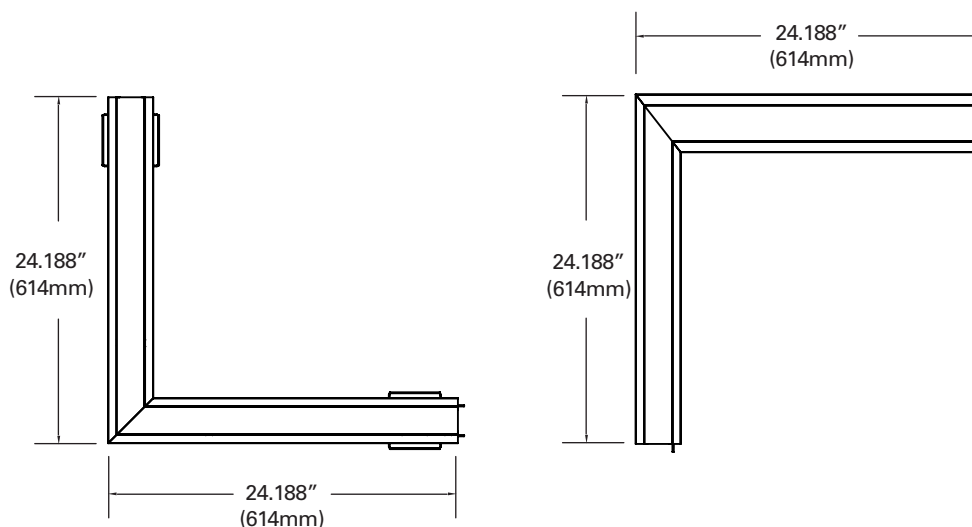
Regressed Satin Lens



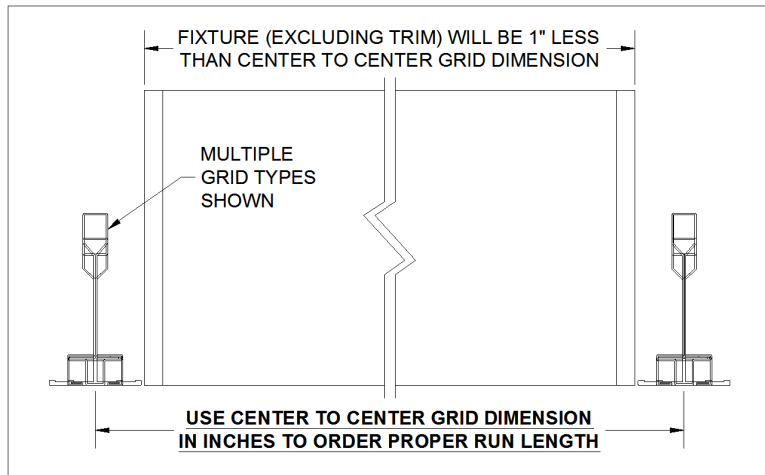
Satin Drop Down Lens

## CORNER TRANSITIONS

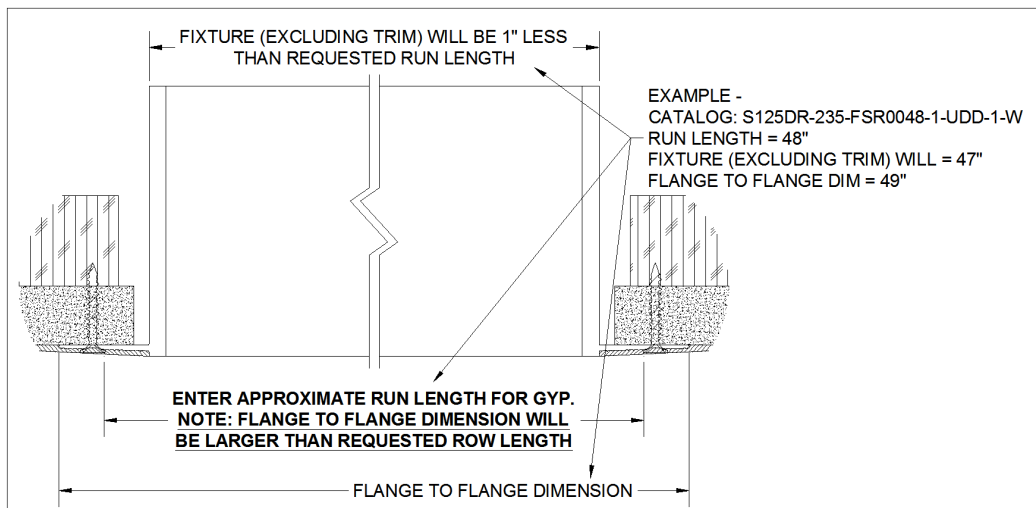
Consult factory for precise corner locations and for ordering.



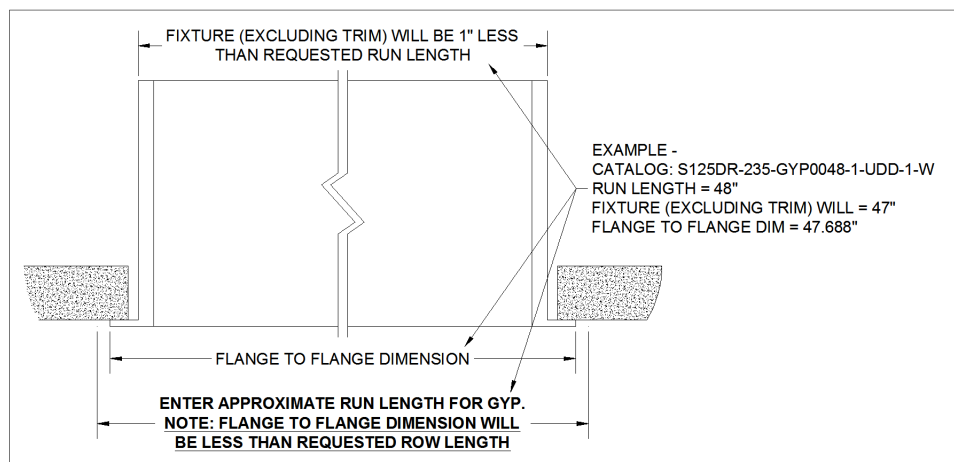
## ALL GRID TYPES SHOWN



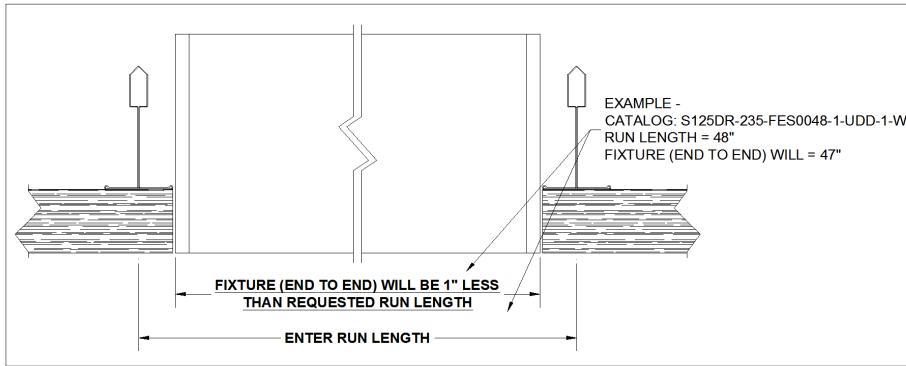
## FSR: "FLANGELESS" GYPSUM BOARD



## GYP: GYPSUM BOARD



## FES: "Finished" Extruded Sides



## TECHNICAL NOTES

1. Additional lower light levels available. Please consult factory for specific details.
2. Not all ceiling types are shown; consult factory for specific ceiling types not listed.
3. All lengths are nominal. Actual sizes are one inch shorter than nominal to allow easy in-grid installation. For Gypsum or Flangeless installations add 1 inch to overall fixture length. Refer to submittal drawings for actual sizes. See "Mounting" details for example.
4. Not all dimming options available for every length; please consult factory for specific details.
5. For configurable runs specify length to nearest inch. Standard runs ship in 12ft increments. Ensure to specify 8ft increments if 12ft are too large to receive. Additional charges may apply; please consult factory for details.
6. 347V is achieved using remote transformer.
7. FifthLight DALI is achieved using digital analog converter.
8. Battery pack options are not available in every length; please consult factory for specific details. Battery pack is remote installation only.
9. For all options; consult factory for specific requirements.