

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

REMOTE INSTALLATION ONLY. 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 ≤ 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.

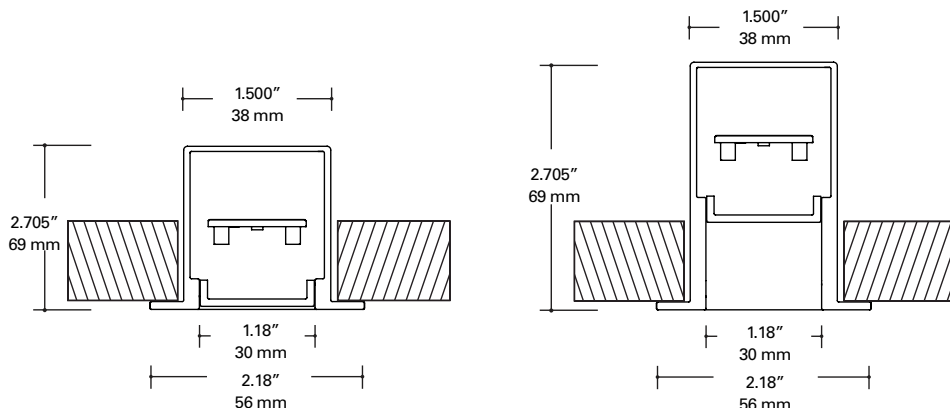


DEFINE 1

LED

Recessed
Direct

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



ORDERING INFORMATION

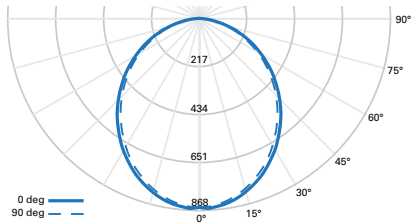
Sample Number: S121-DR-2-35-ETG-0048-1-U-DD-1-W

Series	Light Distribution	Light Level ¹		Color Temperature	Celing Type ⁽²⁾	Length ³	
S121 = Define 1	DR = Direct Recessed RDR = Regressed Direct Recessed	1 = Light Level 1 (2219 Lms @ 29.5 W) (554 Lumens per ft @ 7.3 W) 2 = Light Level 2 (3152 Lms @ 44.7 W) (788 Lumens per ft @ 11 W)	27 = LED 2700K 30 = LED 3000K 35 = LED 3500K 40 = LED 4000K	ETG = 15/16" T-Grid FTG = 9/16" T-Grid STG = 9/16" Slot 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	0024 = 2' Individual ⁴ 0036 = 3' Individual ⁴ 0048 = 4' Individual 0072 = 6' Individual 0096 = 8' Individual 0144 = 12' Individual XXXX = Configurable Run ⁵		
Circuiting	Voltage	Remote LED Driver	Emergency Options	Options ⁹		Shielding	Color
1 = Single Circuit 2 = Dual Circuit	1 = 120V 2 = 277V U = Universal (120V-277V) 3 = 347V ⁶	ED = Non-Dimming DD = 0-10 Volt Dimming 5L = DALI Dimming ⁷	B = Battery Pack ⁸ E = Emergency T = Transfer Switch	CP = Chicago Plenum SVPD1 = Integrated Sensor		1 = Satin Flush Diffuser ¹¹ 3 = Asymmetric Flush Optic ¹⁰ 4 = Satin Drop Diffuser	W = Matte White S = Silver B = Black C = Custom Color

PHOTOMETRICS

Neo-Ray - Define - Recessed

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



FILE NAME: S121-DR-1-35-ETG-0048-1-U-DD-1-W

CCT: 3500K

LUMENS: 2219 Lms

WATTS: 29.5 W

LPW: 75 LPW

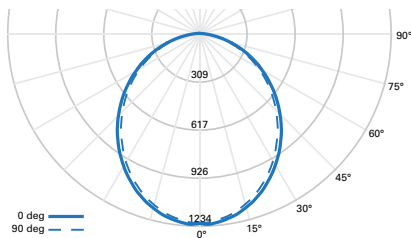
TEST NUMBER: P33906

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	647	29.1
0°-40°	1039	46.8
0°-60°	1779	80.2
0°-90°	2219	100.0

LUMINANCE DATA (cd/m²)

Vertical Angle	0°	45°	90°
45°	23907	23269	22812
55°	22442	21655	21205
65°	20687	19771	27252
75°	17700	16952	16329
85°	12956	11845	11475



FILE NAME: S121-DR-2-35-ETG-0048-1-U-DD-1-W

CCT: 3500K

LUMENS: 3152 Lms

WATTS: 44.8 W

LPW: 70 LPW

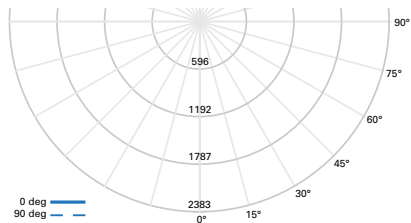
TEST NUMBER: P33921

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°	919	29.2
0°-40°	1477	46.9
0°-60°	2528	80.0
0°-90°	3152	100.0

LUMINANCE DATA (cd/m²)

Vertical Angle	0°	45°	90°
45°	34036	32987	32394
55°	31835	30767	30036
65°	29390	28092	27252
75°	25304	23933	22935
85°	18508	16657	15547



FILE NAME: S121-DR-2-35-ETG-0048-1-U-DD-3-W

CCT: 3500K

LUMENS: tbd Lms

WATTS: tbd W

LPW: tbd LPW

TEST NUMBER: tbd

ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixture
0°-30°		
0°-40°		
0°-60°		
0°-90°		

CANDELA DISTRIBUTION (cd)

Vertical Angle	0°	90°	180°	270°
0°				
10°				
20°				
25°				
30°				
40°				
50°				
60°				
70°				
80°				
90°				

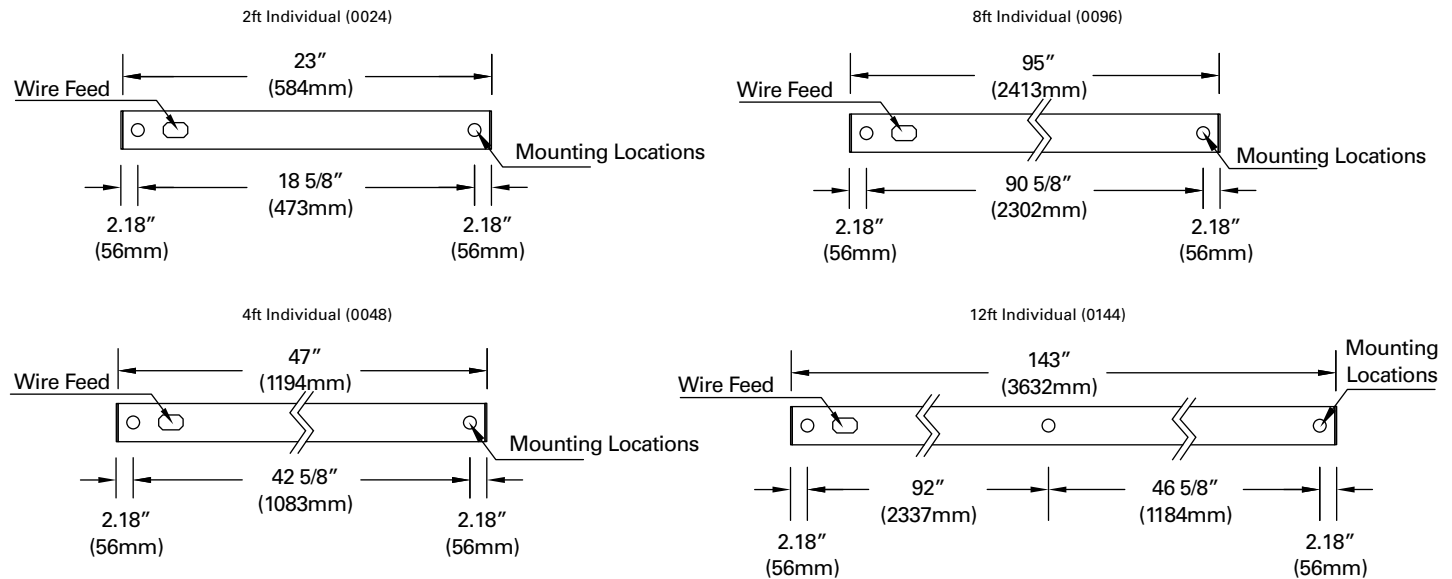
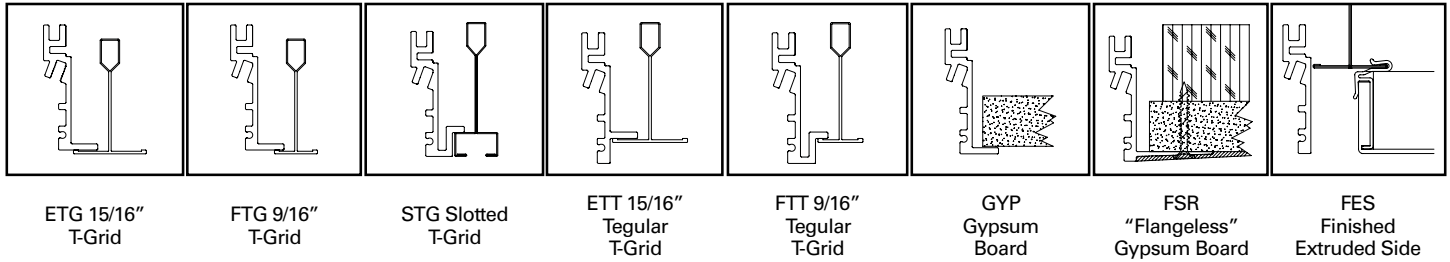
LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (100,000 hours)	Theoretical L70 (Hours)
25°C	>79%	153,000

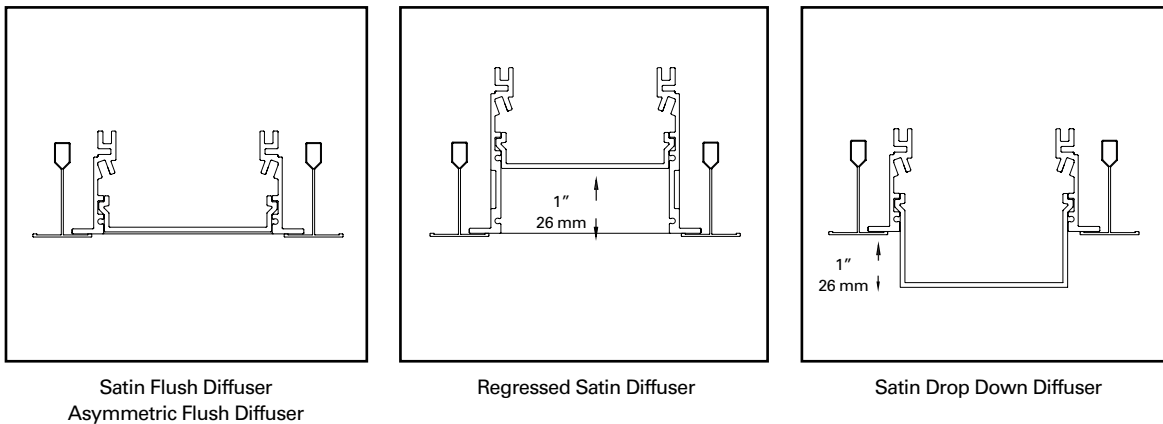
MOUNTING

Neo-Ray - Define - Recessed

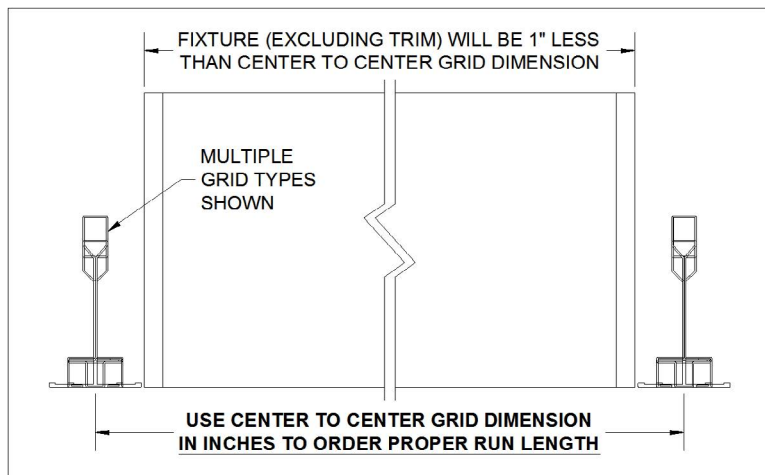
Extruded Trim Flange Details - Refer to submittal drawings for detailed flange information - for additional options consult factory.



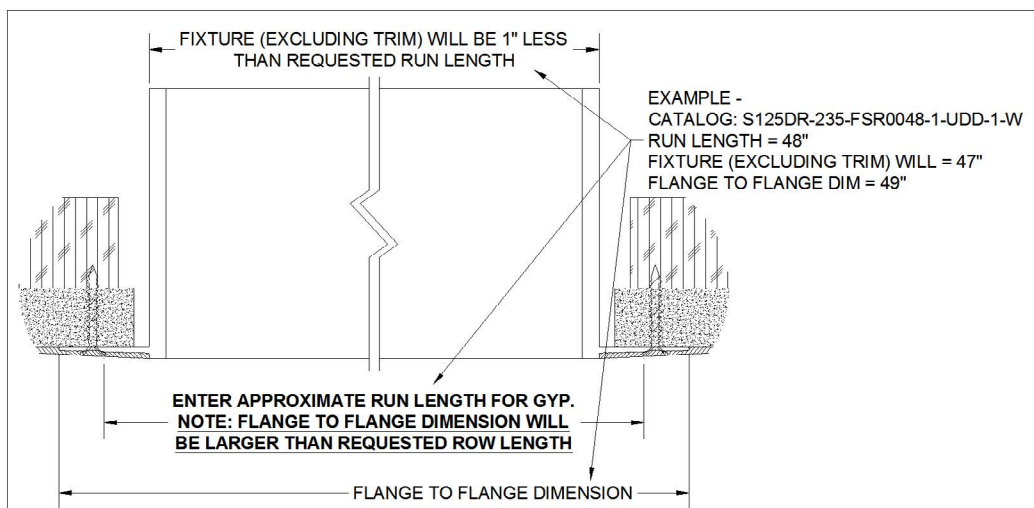
LENS DETAIL



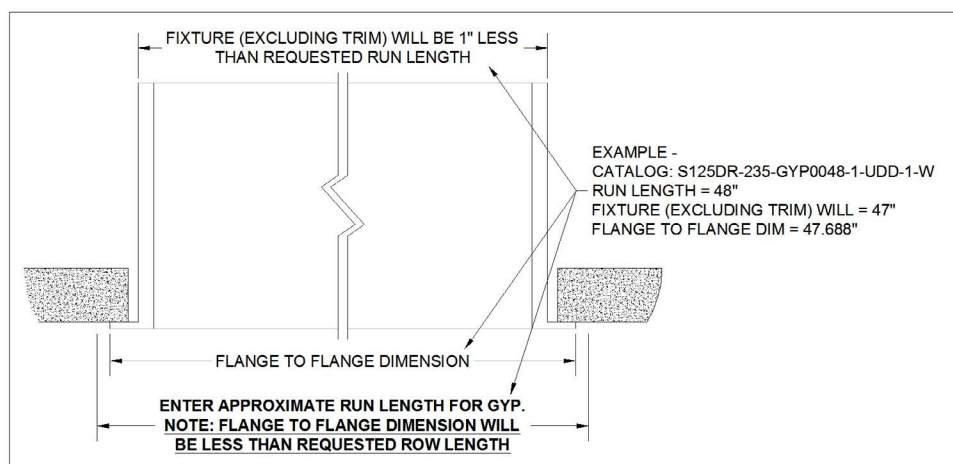
ALL GRID TYPES SHOWN



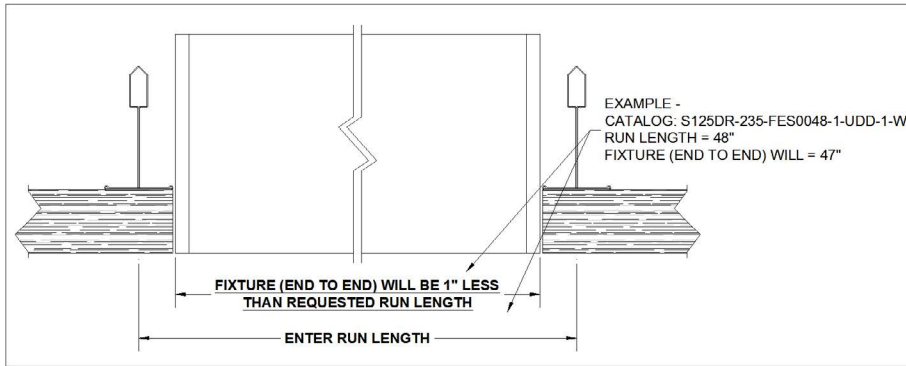
FSR: "FLANGELESS" GYPSUM BOARD



GYP: GYPSUM BOARD

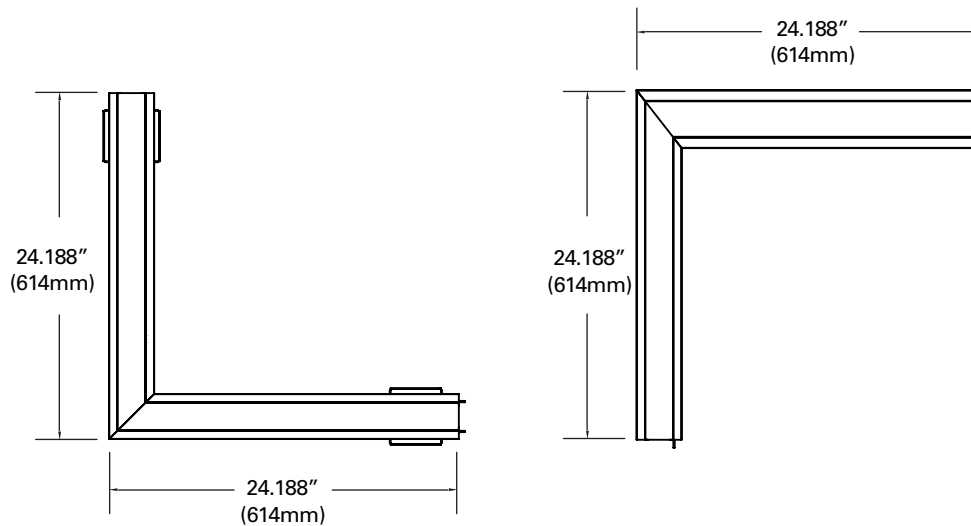


FES: "Finished" Extruded Sides



CORNER TRANSITIONS

Consult factory for precise corner locations and for ordering.



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.
10. Asymmetric lens is not available on regressed housing RDR.
11. Standard product is configured with snap-in lens end caps at the beginning and end of a run or individual fixture. End caps are provided for ease of installation and removal of the lens and eliminate light leak from the end of the fixture when flush satin lens is selected. Please contact factory if lens end-caps are not desired as alternate configurations are available.