



DATE

**PROJECT** 

COMMENTS

CERTIFICATIONS













**3C CEILING** 

DIRECT

AN EXTENSION OF OUR 3-INCH LINEAR FAMILY SERIES

## **FEATURES**

# HOUSING

# 1. ARCHITECTURAL DETAILS

Concealed connection point between the ceiling and fixture eliminates the visibility of hardware.

#### 2. SURE-FIT ALIGNMENT

4-Point alignment system adjoining each luminaire section to ensure straighter rows while minimizing the appearance of seams.

# **OPTICAL SYSTEM**

#### 3. EVENLY ILLUMINATED ARCHITECTURAL LENS

Architectural grade diffuser designed to minimize glare, provide uniform light distribution, and optimal aesthetic value without sacrificing high efficiency light output. Optional Wall Wash (WW) achieves superior wall uniformity while minimizing glare.

#### 4. VERSATILE LIGHT ENGINE

Multiple lumen intensities provide the correct level of illumination within each space.

# **ELECTRICAL**

#### **OPTIONAL INTEGRAL EMERGENCY** BATTERY PACK

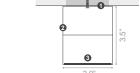
Engineered to exceed UL minimum safety standards and is CEC Listed.

## 0-10 VOLT DIMMING STANDARD

120/277VAC 0-10V dimming to 1% standard.

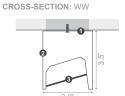
UP TO 136.7 LUMENS PER WATT AT 90 CRI

# **LIGHT DISTRIBUTION: LAMBERTIAN**



**CROSS-SECTION: LAMBERTIAN** 





QUANTITY PER RUN

EMERGENCY CIRCUIT

POSITION IN RUN<sup>7</sup>

POSITION IN RUN<sup>7</sup>

# SAMPLE PART NUMBER: 3C-24-MD-30-UNV-WH-C90

#### ORDERING

OPTIONS

SERIES	LENGTH		OUT	JTPUT CCT VOLTAGE		OLTAGE		FINISH				
20												ORDERING NOTES
3C												1 EM not available with 347V.
	XX FT	VHD	1250 LM/FT	LD	500 LM/FT	30	3000K	UNV	120-277V	WH	White	2 EM and sensors are not available with 2' and 3' fixtures
	1' Increments EX: 20' = 20	HD	1000 LM/FT	VLD	250 LM/FT	35	3500K	3471	347V	BLK	Black	3 For individual fixtures, sensor located at power feed end. For runs, a sensor
		MD	750 LM/FT	CD	Custom	40	4000K					is installed into each fixture in run, ex. 2 sensors are installed in a 16' run (1 sensor in each 8' fixture.

	CRI	INTEGRATED CONTROLS <sup>2, 3, 4</sup>	OPTICAL	FOR INDIVIDUALS	FOR LINEAR RU	JNS <sup>6, 7</sup>
	C90				EM	
C90	90 CRI	DOS Daylight Occupancy Sensor	BLANK = LAMBERTIAN	EM2 Emergency Battery	EMERGENCY QUANTITY BATTERY PACK PER RUN <sup>6</sup>	POSITIO IN RUN
			<b>WW⁵</b> Wall Wash, Direct	EC Emergency Circuit	EC	

# **OPTIONS NOTES**

- 4 Consult factory for component or system not listed.
- 5 Integrated controls not available with wall wash.
- 6 EM and EC quantity is not to exceed number of discrete fixture sections in a row.
- 7 EM and EC position refers to which fixture in the run that will be powered by the EM/EC circuit. Position Options: \$=Starter, J=Joiner, E=Ender Ex: 3C-24-HD-35-UNV-WH-EM/SD.

۰	0	۰	٥	0	۰	٥	0	۰
	STARTER			JOINER			ENDER	







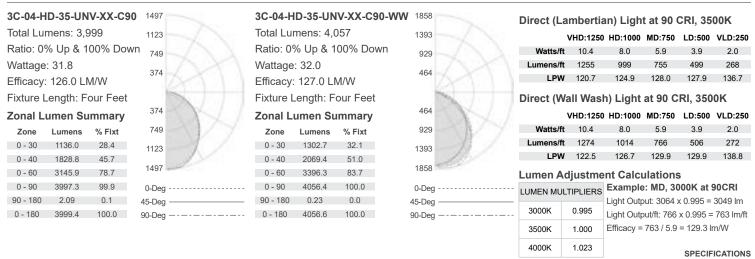








PHOTOMETRICS & ENERGY CHARTS



## **MECHANICAL**

Housing Construction: Extruded Aluminum 6063-T5 alloy outer housing and LED tray with dieformed steel internal components for strength, alignment and mounting attachment. Our high-quality die-cast end caps are engineered to conceal all fasteners and to retain the sealing gaskets on the inside of the fixture while completing the clean and minimalistic look of this luminaire.

Alignment/Assembly:

The alignment system employs a four-point alignment and attachment method, designed to create straighter rows and minimize seams between sections (field assembled). Four alignment pins ensure the outer extruded aluminum rails are aligned, while a draw-screw secures housing-to-housing attachment. Additional alignment biscuits double as the light shields.

Lengths: The 3C is available in a minimum 2-foot (nominal) length with additional 1-foot increments available (±0.030"). Longer fixture rows are available and will be configured with 4-foot, 5-foot, 6-foot, 7-foot, and 8-foot fixtures. Maximum run length on one power feed is 72'. Continuous runs over 72' will require a

Mounting Method/Hardware:

The 3C is available for mounting upon any ceiling type, additional mounting hardware available by others.

**Exterior Finish:** 

The 3C is available in White and Black polyester powder coat finish to ensure durability.

Integrated Controls:

The 3C is available with optional integrated controls. Sensors are conveniently designed to mount in aperture and are located at the power feed end of each fixture. For runs, each fixture section will be supplied with a discrete sensor that will control that specific section. Philips EasySense is standard daylight/ occupancy sensor. DALI driver required. If your project requires a component or system not listed, please contact your Lumato lighting representative.

MANUFACTURER	ORDERING CODE	SENSOR	CONNECTION	DRIVER	
Philips EasySense	DOS	Daylight/PIR Occupancy	Wireless	DALI (Advanced Xitanium SR, 1% Dimming)	

# **OPERATION**

**Light Engine:** 

The 3C is available in 3000K, 3500K and 4000K CCT all within a 3-Step MacAdam Ellipse and has a standard CRI of 90+.

The back-lit extruded acrylic lens ensures high efficiency light output, in a minimal form factor for a clean, evenly illuminated surface with minimal glare. Optional Direct Wall Wash:

Asymmetric extruded aluminum reflector with recessed extruded acrylic lens to achieve a superior wall uniformity while minimizing glare.

#### Electrical:

Class 2 programmable (factory pre-set) premium power supply, 120-277VAC input. Power factor >0.9. THD <15%. Integral Surge Protection to 2KV.

Dimming:

The 3C comes standard with 0-10V dimming to 1%. For DOS (Daylight/ Occupancy Sensor) ordering code, DALI driver required. Advance Xitanium

Occupancy Sensor) ordering code, DALI driver required. Advance Xitanium SR, 1% dimming to be utilized.

Emergency Battery Pack:
Emergency Battery Pack has been engineered to exceed UL minimum safety standards. Standard battery is CEC Listed. For most fixtures, the entire direct portion of the fixture will be illuminated by the EM Battery Pack. For 8' VHD, 10' HD and VHD, and 12' MD, HD, and VHD, only the first portion of the fixture will be illuminated by the EM battery pack. "Quantity per Run" refers to the number of fixtures in the run that will be supplied with an emergency battery pack. "Position in Run" refers to which fixture in the run that will contain the pack. "Position in Run" refers to which fixture in the run that will contain the battery. Position options are Starter (S), Joiner (J), or Ender (E). For example, a 24' run needing two emergency battery packs, one in the starter and one in the joiner, would be ordered as EM2SJ. When a joiner is selected, battery packs are always supplied in 8' fixtures before 6' fixtures in that run.

Emergency Circuit:

Emergency Circuit fixtures are engineered so that the entire fixture is wired to the emergency circuit. "Quantity per Run" refers to the number of fixtures in the run that are wired to the emergency circuit. "Position in Run" refers to which fixture in the run that will be powered by the Emergency Circuit. Position options are Starter (S), Joiner (J), or Ender (E). For example, a 24' run needing two emergency sections, one in the starter and one in the joiner, would be ordered as EC2SJ. When a joiner is selected, Emergency Circuits are always supplied in 8' fixtures before 6' fixtures in that run.

# **GENERAL**

# Warranty:

Ten (10) year limited warranty from date of shipment, covers LED's, driver and luminaire. Optional accessories are covered by their individual Manufacturers' warranties

# **Lumen Maintenance:**

Rated for 85% initial lumen output at 90,000 Hours of operation, operated at 25°C ambient temperature; per TM-21 Guidelines published by the Illuminating Engineering Society (IES).

# Certifications:

All Luminaires are UL/cUL Listed to UL 1598 Standards and approved for Indoor use in Dry/Damp Locations.

Manufactured in the USA:

All Lumato Luminaires and Components (with the exception of our LED boards and drivers) are proudly manufactured and assembled in the USA.

4 week lead-time for orders up to 1000 linear feet.

Lead-time for orders greater than 1000 linear feet will be determined at time of order.





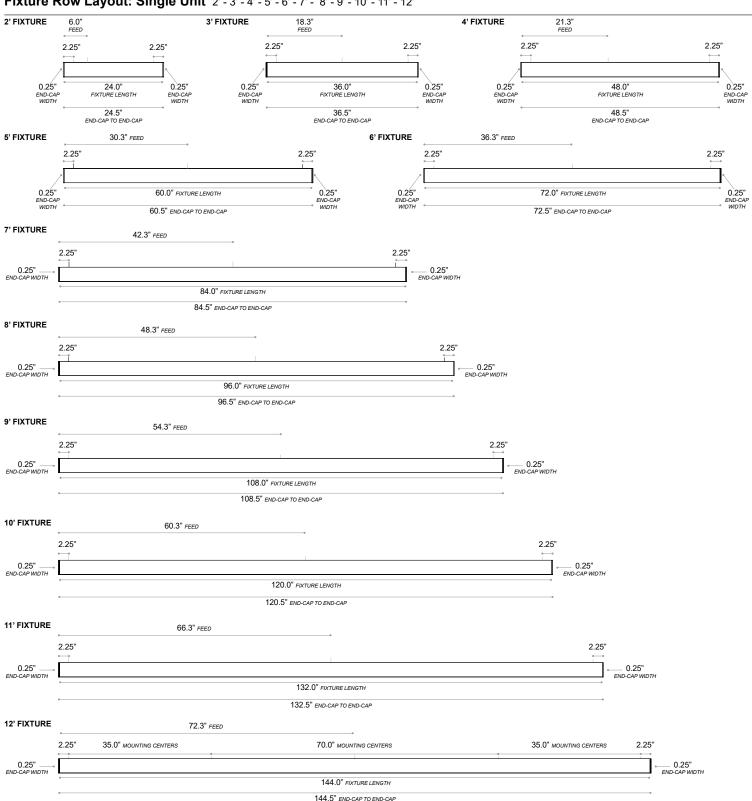








Fixture Row Layout: Single Unit 2' - 3' - 4' - 5' - 6' - 7' - 8' - 9' - 10' - 11' - 12'









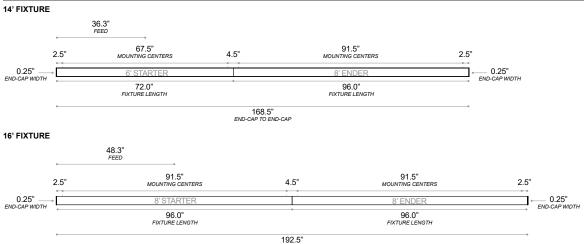


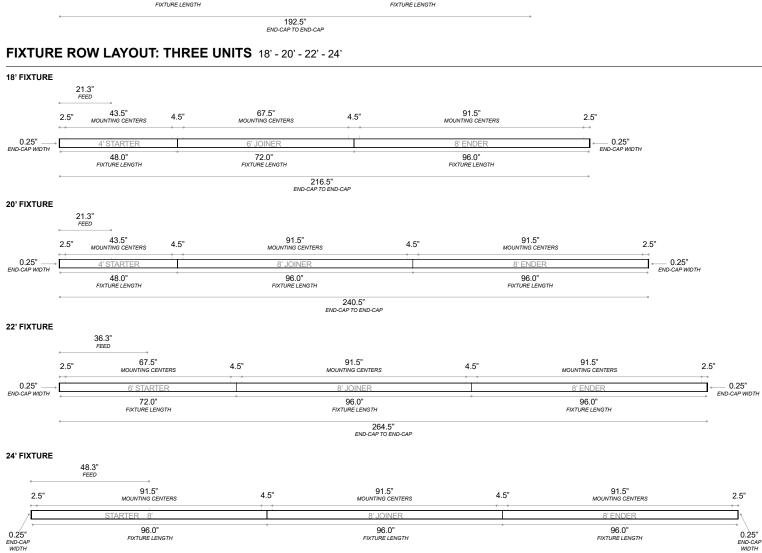






# Fixture Row Layout: Two Units 14' - 16'





288.5" END-CAP TO END-CAP

# **3C** CEILING DIRECT

















# **Fixture Row Components**

DUN I ENCTU	OTABTES		IOINED KITS								
RUN LENGTH	STARTER								9	NDER JOINER KITS	END-CAP TO END-CAP
13'	5'	2	3	- 4	5	6	-	0	8,	1	156.5"
14'	6'	-	-	-	-	-	-	-	8,	1	168.5"
15'	7'			-	-	-	_	-	8,	1	180.5"
16'	8'		-	-	-	-	-	-	8,	1	192.5"
17'	3'	6'	-	-	-	-	-	-	8,	2	204.5"
18'	4'	6'	-	-	-	-	-	-	8,	2	216.5"
19'	5'	6'	-		-	-	-		8,	2	228.5"
20'	4'	8'	-	-	-	-	-	-	8'	2	240.5"
21'	5'	8'							8'		252.5"
			-	-	-	-	-	-		2	
22'	6'	8'	-	-	-	-	-	-	8'	2	264.5"
23'	7'	8'	-	-	-	-	-	-	8'	2	276.5"
24'	8'	8'	-	-	-	-	-	-	8'	2	288.5"
25'	5'	6'	6'	-	-	-	-	-	8'	3	300.5"
26'	4'	6'	8'	-	-	-	-	-	8'	3	312.5"
27'	5'	6'	8'	-	-	-	-	-	8'	3	324.5"
28'	4'	8'	8'	-	-	-	-	-	8'	3	336.5"
29'	5'	8'	8'	-	-	-	-	-	8'	3	348.5"
30'	6'	8'	8'	-	-	-	-	-	8'	3	360.5"
31'	7'	8'	8'	-	-	-	-	-	8'	3	372.5"
32'	8'	8'	8'	-	-	-	-	-	8'	3	384.5"
33'	5'	6'	6'	8'	-	-	-	-	8'	4	396.5"
34'	4'	6'	8'	8'	-	-	-	-	8'	4	408.5"
35'	5'	6'	8'	8'	-	-	-	-	8'	4	420.5"
36'	4'	8'	8'	8'	-	-	-	-	8'	4	432.5"
37'	5'	8'	8'	8'	-	-	-	-	8'	4	444.5"
38'	6'	8'	8'	8'	-	-	-	-	8'	4	456.5"
39'	7'	8'	8'	8'	-	-	-	-	8'	4	468.5"
40'	8'	8'	8'	8'	-	-	-	-	8'	4	480.5"
41'	5'	6'	6'	8'	8'				8'	5	492.5"
42'	4'	6'	8'	8'	8'	-	-	-	8'	5	504.5"
43'	5'	6'	8'	8'	8'				8'	5	516.5"
44'	4'	8'	8'	8'	8'	_	-	_	8'	5	528.5"
45'	5'	8'	8'	8'	8'				8'	5	540.5"
46'	6'	8'	8'	8'	8'	_	-	_	8'	5	552.5"
47'	7'	8'	8'	8'	8'				8'	5	564.5"
48'	8'	8'	8'	8'	8'	_	-	_	8,	5	576.5"
49'	5'	6'	6'	8'	8'	8'	-	_	8,	6	588.5"
50'	4'	6'	8'	8'	8'	8,	_	_	8'	6	600.5"
51'	5'	6'	8'	8'	8'	8'	-	-	8,	6	612.5"
52'	4'	8'	8'	8'	8'	8'	-	_	8'	6	624.5"
53'	5'	8'	8'	8'	8'	8'	-	-	8'	6	636.5"
53 54'	6'	8'	8'	8'	8'	8'			8'	6	648.5"
	7'	8'	8'	8'	8'	8'	-	-	8'	6	660.5"
55'									-		
56'	8'	8'	8'	8'	8'	8'	- 01	-	8'	6	672.5"
57'	5'	6'	6'	8'	8'	8'	8'		8'	7	684.5"
58'	4'	6'	8'	8'	8'	8'	8'	-	8'	7	696.5"
59'	5' 4'	6' 8'	8'	8' 8'	8'	8'	8'		8'	7	708.5"

	FIXTURE LENGTH	FEED DIMENSIONS
3'	36.0"	18.3"
4'	48.0"	21.3"
5'	60.0"	30.3"
6'	72.0"	36.3"
7'	84.0"	42.3"
8'	96.0"	48.3"

