



DATE

PROJECT

COMMENTS

CERTIFICATIONS













FEATURES

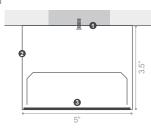
5C CEILING

DIRECT

AN EXTENSION OF OUR 5-INCH LINEAR FAMILY SERIES

LIGHT DISTRIBUTION

CROSS-SECTION



HOUSING

1. ARCHITECTURAL DETAILS

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

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.

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 144.1 LUMENS PER WATT AT 90 CRI

SAMPLE PART NUMBER: 5C-24-MD-30-UNV-WH-C90

OR	DE	RII	NG

SERIES	LENGTH		OUT	ΓPUT			ССТ	V(OLTAGE	F	INISH	
5C												ORDERING NOTES 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. 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.

OPTIONS

								OPTIONS
	CRI	INTEGRATED CONTROLS ^{2, 3, 4}	F	OR INDIVIDUALS	FOR LI	NEAR RU	NS ^{5, 6}	OPTIONS NOTES 4 Consult factory for component or system not listed.
	C90				EM			5 EM and EC quantity is not to exceed number of discrete fixture sections in a row.
C90	90 CRI	DOS Daylight Occupancy Sensor	EM ²	Emergency Battery	EMERGENCY BATTERY PACK	QUANTITY PER RUN ⁵	POSITION IN RUN ⁶	6 EM and EC position refers to which fixture in the run that will be powered by the EM/EC circuit. Position options: S =Starter, J =Joiner, E =Ender,
			EC	Emergency Circuit	EC			Ex: 5C-24-HD-35-UNV-WH-EM2SJ
					EMERGENCY	QUANTITY PER RUN ⁵	POSITION IN RUN ⁶	O O O O O O O















PHOTOMETRICS & ENERGY CHARTS

5C-04-HD-35-UNV-XX-C90

Total Lumens: 4 092

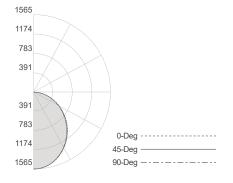
Ratio: 0% Up and 100% Down

Wattage: 28.5

Efficacy: 144.0 LM/W Fixture Length: Four Feet

Zonal Lumen Summary

Zone	Lumens	% Fixt
0 - 30	1173.3	28.7
0 - 40	1888.1	46.1
0 - 60	3240.2	79.2
0 - 90	4091.3	100.0
90 - 180	0.6	0.0
0 - 180	4091.9	100.0



Direct (Lambertian) Light at 90 CRI, 3500K

	VHD:1250	HD:1000	MD:750	LD:500	VLD:250
Watts/ft	9.0	7.1	5.4	3.7	2.0
Lumens/ft	1268	1023	753	505	264
LPW	140.9	144.1	139.4	136.5	134.7

LUMEN ADJUSTMENT CALCULATIONS

LUMEN MULTIPLIERS							
3000K	0.995						
3500K	1.000						
4000K	1.023						

Example: MD Output, 3000K at 90CRI Total Light Output: 3012 x 0.995 = 2996 lm Total Light Output Per Foot: 753 x 0.995 = 749 lm/ft Efficacy = 749 / 5.4 = 138.7 lm/W

SPECIFICATIONS

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.

The 5C 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 second feed.

Mounting Method/Hardware:

The 5C is available for mounting upon any ceiling type, additional mounting hardware available by others.

Exterior Finish:

The 5C is available in White and Black polyester powder coat finish to ensure durability.

Integrated Controls:

Integrated Controls:

The 5C 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 water not listed places control your Lungar inditing representative. 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)

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 5C comes standard with 0-10V dimming to 1%. For DOS (Daylight/ Occupancy Sensor) ordering code, DALI driver required. Advance Xitanium SR, 1% dimming to be utilized

Emergency Battery Pack:

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

OPERATION

Light Engine:

The 5C 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.









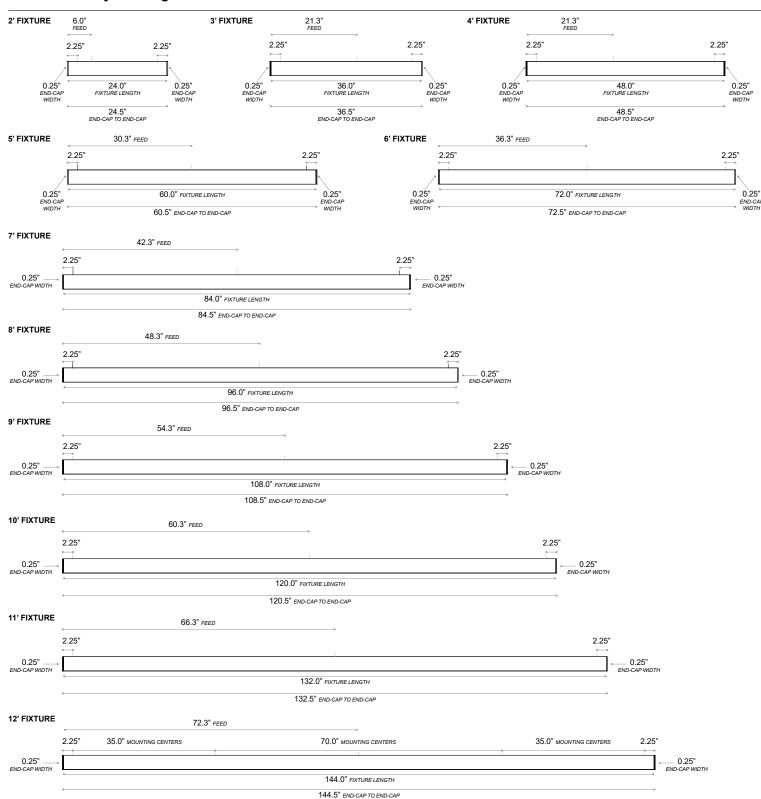








Fixture Row Layout: Single Unit 2' - 3' - 4' - 5' - 6' - 7' - 8' - 9' - 10' - 11' - 12'









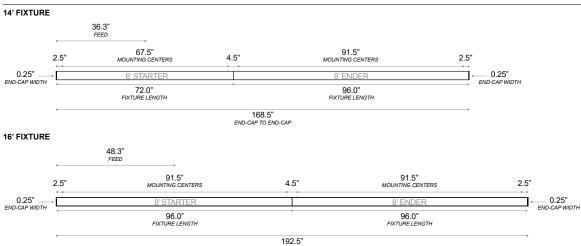


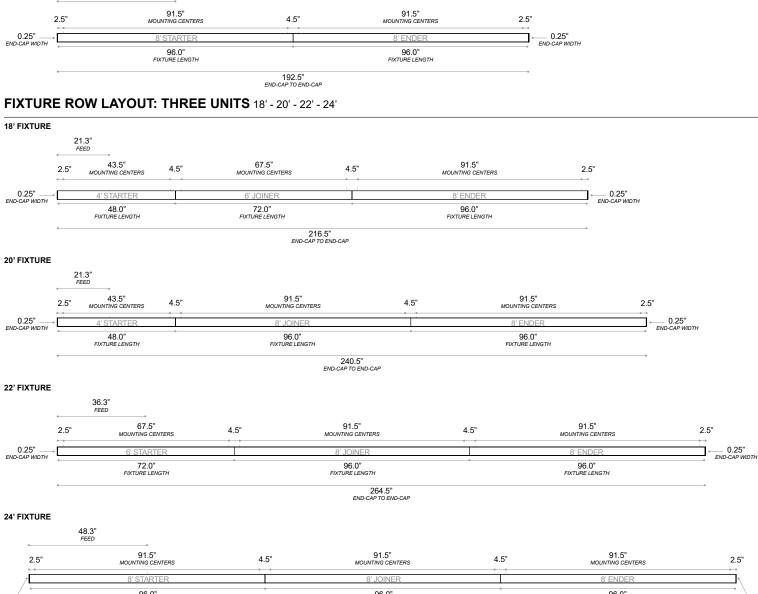




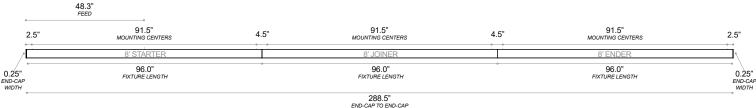


Fixture Row Layout: Two Units 14' - 16'









5C CEILING DIRECT













Fixture Row Components

RUN LENGTH	STARTER	FIXTURE LENGTHS JOINER ENDER								JOINER KITS	END-CAP TO END-CAP
NON ELNOTH	1	2	3	4	5	6	7	8	9	CONTENTATO	LIND OAL TO LIND OAL
13'	5'	-	-	-	-	-	-	-	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'	2	252.5"
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 5	564.5"
	8'	8'	8'	8'	8'				8'	5	
48'						- 01	-	-			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"
54'	6'	8'	8'	8'	8'	8'	-	-	8'	6	648.5"
55'	7'	8'	8'	8'	8'	8'			8'	6	660.5"
56'	8'	8'	8'	8'	8'	8'	-	-	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'	6'	8'	8'	8'	8'	8'		8'	7	708.5"
60'	4'	8'	8'	8'	8'	8'	8'	-	8'	7	720.5"

	FIXTURE LENGTH	FEED DIMENSIONS
3'	36.0"	21.3"
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"

