



DATE

PROJECT

COMMENTS

CERTIFICATIONS











5S SUSPENDED

DIRECT

AN EXTENSION OF OUR 5-INCH LINEAR FAMILY SERIES

FEATURES

HOUSING

1. ARCHITECTURAL DETAILS

Provide a clean architectural appearance with the semi-recessed connection point between cable and fixture reduces 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.

4. VERSATILE LIGHT ENGINE

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

ELECTRICAL

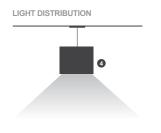
OPTIONAL INTEGRAL EMERGENCY BATTERY PACK

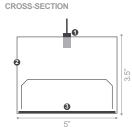
Engineered to exceed UL minimum safety standards and is CEC Listed.

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: 5S-24-MD-30-UNV-T1-WH-C90

ORDERING

SERIES	S LE	NGTH		OUT	PUT		С	CT	V	OLTAGE		MOUN	TINC	}	F	INISH
58																
	XX	X FT	VHD	1250 LM/FT	LD	500 LM/FT	30 3	3000K	UNV	120-277V	T1	1" T-Grid	нс	Hard Ceiling	WH	White
ORDERING NOTE		crements	HD	1000 LM/FT	VLD	250 LM/FT	35 3	3500K	347¹	347V	Т9	9/16" T-Grid	JB	Junction Box	BLK	Black
1 EM not available			MD	750 LM/FT	CD	Custom	40 4	1000K			sc	Screw Slot Grid				

² EM and sensors are not available with 2' and 3' fixtures.

3 For individual fixtures, sensor located at power feed end. For runs, a sensor is installed into each fixture in run, ex. 2 sensors are installed in a 16' run (1 sensor in each 8' fixture.

OPTIONS

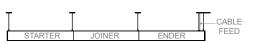
CRI	SUSPENSION	INTEGRATED CONTROLS ^{2, 3, 4}	FC	R INDIVIDUALS	FOR LI	NEAR RU	NS ^{5, 6}
C90					EM		
C90 90 CRI	BLANK = 48" CABLE	DOS Daylight Occupancy Sensor	EM ²	Emergency Battery	EMERGENCY BATTERY PACK	QUANTITY PER RUN ⁵	POSITION IN RUN ⁶
	CB96 96" Cables		EC	Emergency Circuit	EC		
	CB144 144" Cables				EMERGENCY CIRCUIT	QUANTITY PER RUN ⁵	POSITION IN RUN ⁶
OPTIONS NOTES	BC Black Canopy & Cor	rd					

4 Consult factory for component or system not listed.

OPTIONS NOTES

5 EM and EC quantity is not to exceed number of discrete fixture sections in a row.

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, Ex: 5S-24-HD-35-UNV-T1-WH-EM2SJ

















PHOTOMETRICS & ENERGY CHARTS

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

Total Lumens: 4.092

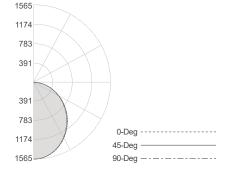
Ratio: 0% Up and 100% Down

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 die-formed 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 5S 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:

Mounting Method/Hardware:

The Hidden-Connect design recesses all attachment hardware (hanging cable and power cord) below the top plane of the housing to enable a sleek, clean finished look. Standard hanging hardware includes 1/16" diameter, galvanized steel aircraft cable with adjustable and lockable nickel-plated cable grippers and a white 18/5 S.J.T. power cord. The standard hardware includes a 60" power cord and 54" aircraft cables to accommodate a 48" mounting listance from the ceiling. Longer hanging cables and power cords are availables and from the ceiling. Longer hanging cables and power cords are available as an option. Ceiling type options are "T1" = T-Grid, "T9" = T-Grid, "SC" = Screw Slot Grid, "HC" = Hard Ceiling or "JB" = J-Box mount. Ceiling canopy provided. All Lumato suspension hardware is tested and listed to UL1598 requirements for loading/fixture support.

Exterior Finish:

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

Suspension Components:

Fixtures are suspended by 1/16" galvanized aircraft cable. Cables are attached to the ceiling suspension point with a 1/4-20 threaded ceiling cable barrel that incorporates a threaded ring to support the feed/hanger canopy allowing access to the J-box/hanger without removal of the suspension cable allowing conductor inspection/service without having to support the fixture(s). Feed canopies are 5" O.D. and hanger canopies are 2" O.D. (JB = 5" O.D.). Cable lengths can be specified for 48", 96" and 144" suspension lengths. **Integrated Controls:**

The 5S 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 5S is available in 3000K, 3500K and 4000K CCT all within a 3-Step MacAdam Ellipse and has a standard CRI of 90+.

Optics:

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.

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 5S 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 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 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, luminaire. Opt. accessories are covered by their individual MFRS' 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. Shipping:

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







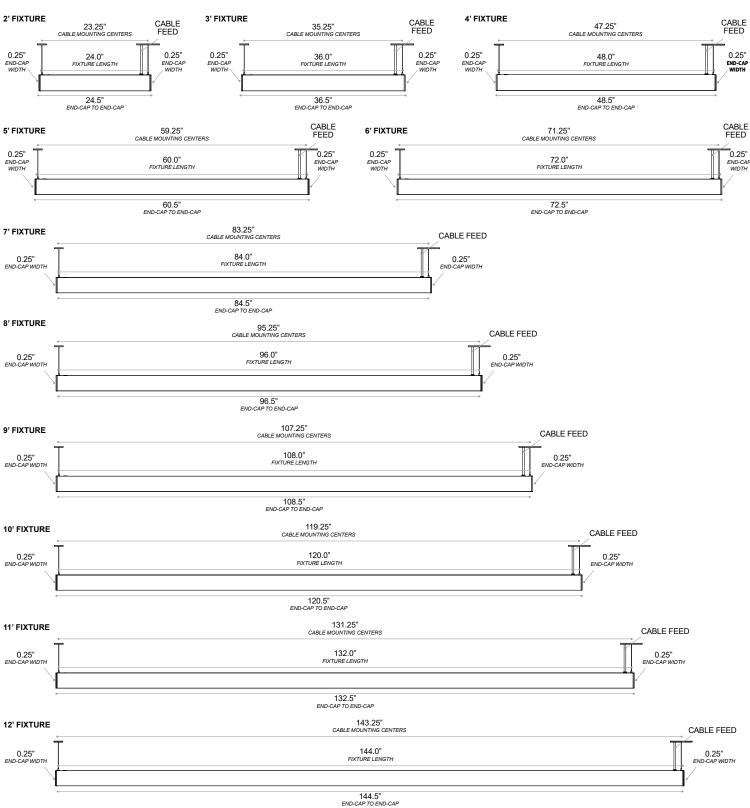








Fixture Row Layout: Single Unit 2' - 3' - 4' - 5' - 6' - 7' - 8' - 9' - 10' - 11' - 12'



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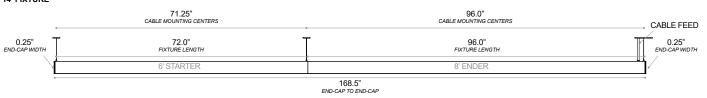




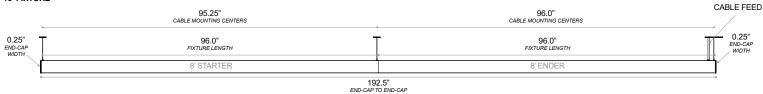


Fixture Row Layout: Two Units 14' - 16'

14' FIXTURE

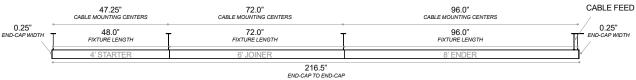






FIXTURE ROW LAYOUT: THREE UNITS 18' - 20' - 22' - 24'

18' FIXTURE



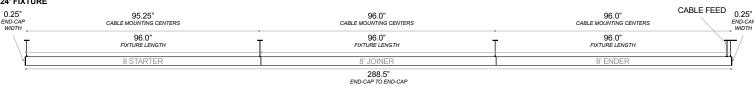
20' FIXTURE



22' FIXTURE



24' FIXTURE



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lard Sure-Fit

Hidder

Fixture Row Components

			FIX		FEED	HANGER							
RUN LENGTH	STARTER JOINER ENDER								JOINER	KITS	KITS	END-CAP TO END-CAP	
	1	2	3	4	5	6	7	8	9	1	1		450.5"
13'	5'	-	-	-	-	-	-	-	8'			2	156.5"
14'	6'	-	-		-	-	-	-	8'	1	1	2	168.5"
15'	7'	-		-		-	-		8'	1	1	2	180.5"
16'	8'	-	-	-	-	-	-	-	8'	1	1	2	192.5"
17'	3'	6'	-	-	-	-	-	-	8'	2	1	3	204.5"
18'	4'	6'	-	-	-	-	-	-	8'	2	1	3	216.5"
19'	5'	6'	-	-	-	-	-	-	8'	2	1	3	228.5"
20'	4'	8'	-	-	-	-	-	-	8'	2	1	3	240.5"
21'	5'	8'	-	-	-	-	-	-	8'	2	1	3	252.5"
22'	6'	8'	-	-	-	-	-	-	8'	2	1	3	264.5"
23'	7'	8'	-	-	-	-	-	-	8'	2	1	3	276.5"
24'	8'	8'	-	-	-	-	-	-	8'	2	1	3	288.5"
25'	5'	6'	6'	-	-	-	-	-	8'	3	1	4	300.5"
26'	4'	6'	8'	-	-	-	-	-	8'	3	1	4	312.5"
27'	5'	6'	8'	-	-	-	-	-	8'	3	1	4	324.5"
28'	4'	8'	8'	-	-	-	-	-	8'	3	1	4	336.5"
29'	5'	8'	8'	-	-	-	-	-	8'	3	1	4	348.5"
30'	6'	8'	8'	-	-	-	-	-	8'	3	1	4	360.5"
31'	7'	8'	8'	-	-	-	-	-	8'	3	1	4	372.5"
32'	8'	8'	8'	-	-	-	-		8'	3	1	4	384.5"
33'	5'	6'	6'	8'	-	-	-		8'	4	1	5	396.5"
34'	4'	6'	8'	8'	-	-			8'	4	1	5	408.5"
35'	5'	6'	8'	8'	-	_		-	8'	4	1	5	420.5"
36'	4'	8'	8'	8'	_	_	_	-	8'	4	1	5	432.5"
37'	5'	8'	8'	8'	_	_	_	-	8'	4	1	5	444.5"
38'	6'	8'	8'	8'	_	_	_		8'	4	1	5	456.5"
39'	7'	8'	8'	8'	_	_	_	_	8'	4	1	5	468.5"
40'	8'	8'	8,	8,	-	-	-		8,	4	1	5	480.5"
41'	5'	6'	6'	8'	8'	-	-	_	8,	5	1	6	492.5"
42'	4'	6'	8,	8,	8,	-	-	-	8,	5	1	6	504.5"
43'	5'	6'	8,	8,	8,	-	-	-	8,	5	1	6	516.5"
43			8'				-	-					
	4'	8'		8'	8'	-			8'	5	1	6	528.5"
45'	5'	8'	8'	8'	8'	-	-	-	8'	5	1	6	540.5"
46'	6'	8'	8'	8'	8'	-	-	-	8'	5	1	6	552.5"
47'	7'	8'	8'	8'	8'	-	-	-	8'	5	1	6	564.5"
48'	8'	8'	8'	8'	8'	-	-	-	8'	5	1	6	576.5"
49'	5'	6'	6'	8'	8'	8'	-	-	8'	6	1	7	588.5"
50'	4'	6'	8'	8'	8'	8'	-	-	8'	6	1	7	600.5"
51'	5'	6'	8'	8'	8'	8'	-	-	8'	6	1	7	612.5"
52'	4'	8'	8'	8'	8'	8'	-	-	8'	6	1	7	624.5"
53'	5'	8'	8'	8'	8'	8'	-	-	8'	6	1	7	636.5"
54'	6'	8'	8'	8'	8'	8'	-	-	8'	6	1	7	648.5"
55'	7'	8'	8'	8'	8'	8'	-	-	8'	6	1	7	660.5"
56'	8'	8'	8'	8'	8'	8'	-	-	8'	6	1	7	672.5"
57'	5'	6'	6'	8'	8'	8'	8'	-	8'	7	1	8	684.5"
58'	4'	6'	8'	8'	8'	8'	8'	-	8'	7	1	8	696.5"
59'	5'	6'	8'	8'	8'	8'	8'	-	8'	7	1	8	708.5"
60'	4'	8'	8'	8'	8'	8'	8'	-	8'	7	1	8	720.5"

	FIXTURE LENGTH	MOUNTING CENTERS							
	STARTER	STARTER	JOINER/ENDER						
3'	36.0"	35.25"	-						
4'	48.0"	47.25"	-						
5'	60.0"	59.25"	-						
6'	72.0"	71.25"	72.0"						
7'	84.0"	83.25"	-						
8'	96.0"	95.25"	96.0"						

