

5R RFCFSSFD DIRECT

DATE

PROJECT

COMMENTS









PRODUCT FEATURES

MINIMAL RECESSED HEIGHT

Width: 5.0" Height: 3.5"

ONE-PIECE EXTRUDED ALUMINUM HOUSING

Housing ensures straighter rows and consistent lens retention

MULTIPLE CEILING SYSTEMS

Engineered to be installed in multiple grid systems or hard ceiling applications

120/277VAC 0-10 VOLT DIMMING TO 1% STANDARD

UP TO 144.1 LUMENS PER WATT AT 90 CRI















ORDERING GUIDE EX: 5R - 20 - HD - 30 - UNV - T1 - WH - C90

SERIES	SERIES LENGTH			OUTPUT			CCT VOLTAGE		MOUNTING		FINISH		
5R													
	XX FT	VHD	1250 LM/FT	LD	500 LM/FT	30	3000K	UNV	120-277V	T1	1" T-Grid	WH	White
ORDERING NOTES	1' Increments	HD	1000 LM/ET	VID	250 LM/FT	25	3500K	2/171	3/17\/	то	9/16" T-Grid	BIK	Black
1. EM NOT AVAILABLE WITH 347V.	EX: 20' = 20	שוו	TOOU LIVI/FT	V LD	230 LIVI/F1	33	3300K	347	J47 V	17	// 10 1-GIIG	DLK	DIACK
2. EM AND SENSORS NOT AVAILABLE WITH 2	' AND 3' FIXTURES	MD	750 LM/FT	CD	Custom	40	4000K			OF	Overlapping Flange		
3. FOR INDIVIDUAL FIXTURES, SENSOR LOCATED AT POWER													

FIXTURE IN RUN, EX. 2 SENSORS ARE INSTALLED IN A 16' RUN (1 SENSOR IN EACH 8' FIXTURE).

OPTIONS

	CRI	INTEGRATED CONTROLS ^{2, 3, 4}	RATING	F	OR INDIVIDUALS	FOR LINEAR RUNS ^{5, 6}			
	C90					EM			
C90	90 CRI	DOS Daylight Occupancy Sensor	CP Chicago Plenum	EM ²	Emergency Battery	EMERGENCY BATTERY PACK	QUANTITY PER RUN ⁵	POSITION IN RUN ⁶	
				EC	Emergency Circuit	EC			
	NS NOTES	EMERGENCY CIRCUIT	QUANTITY PER RUN ⁵	POSITION IN RUN ⁶					

- 4. CONSULT FACTORY FOR COMPONENT OR SYSTEM NOT
- 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: 5R-20-HD-35-UNV-T1-WH-EM2SJ

000	STARTER	0000	JOINER	0000	ENDER	000

PHOTOMETRICS

5R-04-HD-35-UNV-XX-C90 1565 **Zonal Lumen Summary** Zone Lumens % Fixt Total Lumens: 4,092 1174 0 - 30 1173.3 28.7 Ratio: 0% Up and 100% Down 783 0 - 40 1888.1 46.1 Wattage: 28.4 391 0 - 60 3240.2 79.2 Efficacy: 144.1 LM/W 0 - 90 4091.3 100.0 Fixture Length: Four Feet 90 - 180 0.6 0.0 391 0 - 180 4091.9 100.0 783 0-Deg -----1174 45-Deg -90-Deg -----1565

ENERGY CONSUMPTION WATTS PER LINEAR FOOT

DIRECT (LAMBERTIAN) LIGHT AT 90 CRI, 3500K

	VHD:1250	HD:1000	MD:750	LD:500	VLD:250
W/FT	9.0	7.1	5.4	3.7	2.0
LM/FT	1268	1023	753	505	264
LM/W	140.9	144.1	139.4	136.5	134.7

LUMEN ADJUSTMENT CALCULATIONS

ZOMENTAL ONESO									
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

5R RECESSED



OPERATION

Light Engine:

The 5R 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 5R 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 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:

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.

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. Luminaires are IC rated.

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

Lengths:

The 5R is available in a minimum 2-foot (nominal) length with additional 1-foot increments available (± 0.030 ", ± 0.50 °). 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 5R is designed for lay-in grid ceilings or "Hard" sheet rock construction. Hard ceiling installations can be supplied for overlapping flange or "Trimless" spackle flange types.

Exterior Finish:

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

Integrated Controls:

The 5R 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 local American Linear Lighting representative.

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

Shipping:

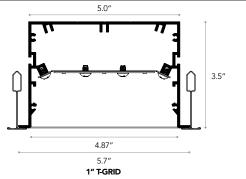
2 week lead time for White (WH) or Black (BLK) finish orders up to 1000 linear foot

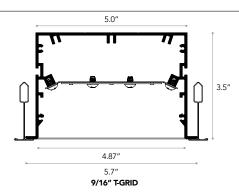
Lead time for orders greater than 1000' will be determined at time of order.

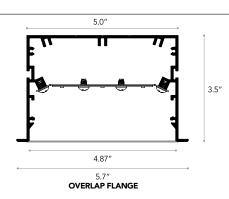
Manufactured in the USA:

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

MOUNTING DETAILS







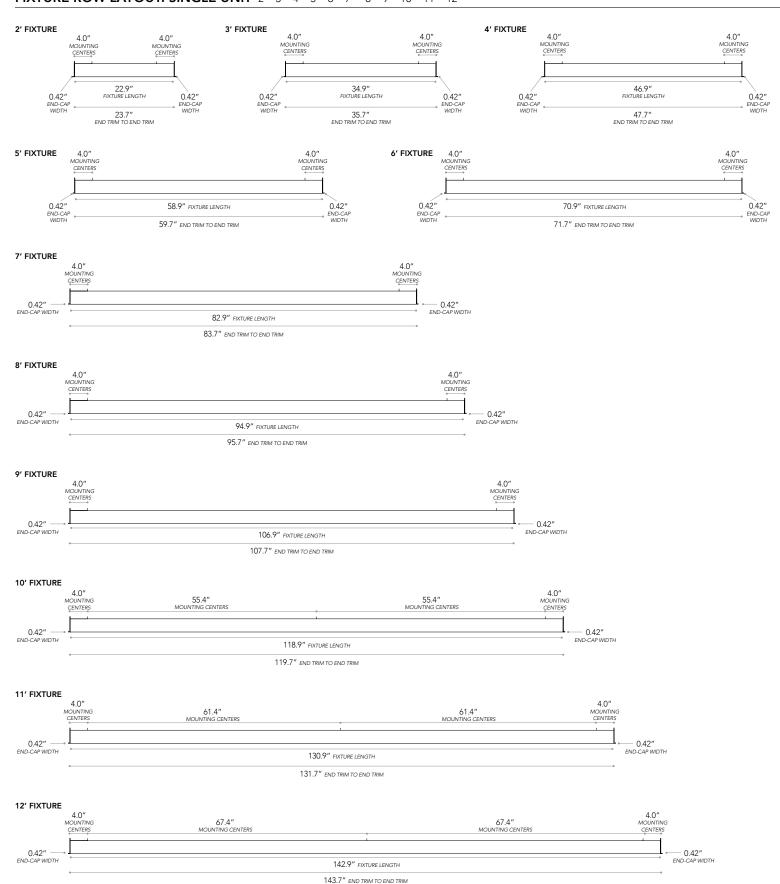
MOUNTING DETAILS NOTES: 6" GRID CENTERS







FIXTURE ROW LAYOUT: SINGLE UNIT 2' - 3' - 4' - 5' - 6' - 7' - 8' - 9' - 10' - 11' - 12'



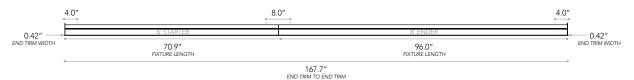






FIXTURE ROW LAYOUT: TWO UNITS 14' - 16'

14' FIXTURE



16' FIXTURE



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

18' FIXTURE



20' FIXTURE



22' FIXTURE



24' FIXTURE









FIXTURE ROW COMPONENTS

RUN LENGTH	CTAPTED	FIXTURE LENGTHS STARTER JOINER ENDER									CEILING CUT OUT LENGTH	
ON LENGTH	1	2	3		JOINER KITS	CEILING CUT OUT LENGT						
13′	5'	-		-	-	-		-	8'	1	155.25"	
14'	6'	-	-	-	-	_	-	-	8'	1	167.25"	
15'	7'						-		8'	1	179.25"	
16'	8'	-		-		-	-	-	8'	1	191.25"	
17'		- //			-			-				
	3'	6'	-	-	-	-	-	-	8'	2	203.25"	
18′	4'	6'	-	-	-	-	-	-	8'	2	215.25"	
19'	5′	6′	-	-	-	-	-	-	8'	2	227.25"	
20′	4′	8′	-	-	-	-	-	-	8'	2	239.25"	
21′	5′	8′	-	-	-	-	-	-	8′	2	251.25"	
22′	6'	8′	-	-	-	-	-	-	8′	2	263.25"	
23′	7′	8′	-	-	-	-	-	-	8′	2	275.25"	
24'	8′	8′	-	-	-	-	-	-	8′	2	287.25"	
25′	5′	6′	6'	-	-	-	-	-	8′	3	299.25"	
26′	4'	6′	8′	-	-	-	-	-	8'	3	311.25"	
27′	5′	6'	8′	-	-	-	-	-	8′	3	323.25"	
28′	4'	8′	8′	-	-	-	-	-	8'	3	335.25"	
29'	5'	8′	8′	-	-	-	-	-	8'	3	347.25"	
30'	6'	8′	8′	-	-	-	-	-	8'	3	359.25"	
31′	7'	8′	8′	-	-	-	-	-	8'	3	371.25"	
32′	8'	8′	8'	_	_	_	_	_	8'	3	383.25"	
33′	5'	6′	6'	8′	_	_	_	_	8'	4	395.25"	
34'	4'	6′	8′	8′	_	_	_	_	8'	4	407.25"	
35'	5'	6′	8′	8'	_	_	-	-	8'	4	419.25"	
36'	4'	8′	8'	8′	-	-	_	-	8'	4	431.25"	
37'	5'	8′	8'	8′	_	_	-	-	8'	4	443.25"	
38'	6'	8′	8'	8'			-	-	8'	4	455.25"	
39′	7'	8′		8′			-					
			8′		-	-	-	-	8'	4	467.25"	
40′	8′	8′	8'	8′	-	-	-	-	8'	4	479.25"	
41′	5′	6′	6'	8′	8′				8′	5	491.25"	
42'	4'	6′	8′	8′	8′	-	-	-	8′	5	503.25"	
43′	5′	6'	8′	8′	8′				8′	5	515.25"	
44'	4'	8′	8′	8′	8′	-	-	-	8′	5	527.25"	
45′	5	8′	8′	8′	8′				8′	5	539.25"	
46′	6'	8′	8′	8′	8′	-	-	-	8′	5	551.25"	
47′	7'	8′	8′	8′	8′				8'	5	563.25"	
48′	8'	8′	8′	8′	8′	-	-	-	8′	5	575.25"	
49'	5'	6′	6'	8′	8′	8′			8'	6	587.25"	
50′	4'	6′	8′	8′	8′	8′	-	-	8'	6	599.25"	
51′	5'	6′	8′	8′	8′	8′			8'	6	611.25"	
52'	4'	8′	8′	8′	8′	8′	-	-	8'	6	623.25"	
53'	5'	8′	8'	8′	8′	8′			8'	6	635.25"	
54'	6'	8′	8'	8′	8′	8′	-	-	8'	6	647.25"	
55′	7'	8′	8'	8′	8′	8′			8'	6	659.25"	
56′	8'	8′	8′	8'	8′	8′	_	_	8'	6	671.25"	
57'	5'	6′	6′	8′	8′	8′	8′		8'	7	683.25"	
58′	4'	6′	8'	8′	8'	8′	8'		8'	7	695.25"	
59'	5'	6′	8'	8'	8′	8'	8'	-	8'	7	707.25"	
60'	4'	8′	8'	8′	8′	8′	8′	-	8'		719.25"	
61′	5′	8′	8′	8	8	8	8		8'		731.25"	
62'	6'	8′	8′	8′	8′	8′	8′	-	8′	7	743.25"	
63′	7'	8′	8'	8′	8′	8′	8′		8′	7	755.25"	
64'	8′	8′	8′	8′	8′	8′	8′	-	8′	7	767.25"	
65′	5′	6′	6′	8′	8′	8′	8′	8′	8′	8	779.25"	
66′	4'	6′	8′	8′	8′	8′	8′	8′	8′	8	791.25"	
67′	5′	6′	8′	8′	8′	8′	8′	8′	8′	8	803.25"	
68′	4'	8′	8′	8′	8′	8′	8′	8′	8′	8	815.25"	
69'	5'	8′	8′	8′	8′	8′	8′	8′	8'	8	827.25"	
70′	6'	8′	8′	8′	8′	8′	8′	8′	8′	8	839.25"	
71′	7'	8′	8′	8′	8′	8′	8′	8′	8'	8	851.25"	
72'	8'	8′	8′	8'	8′	8′	8′	8′	8'	8	863.25"	

	FIXTUR	E LENGIH
	STARTER	JOINER/ENDER
3′	34.9"	36.0"
4'	46.9"	48.0"
5'	58.9"	60.0"
6'	70.9"	72.0"
7'	82.9	84.0"
8′	94.9"	96.0"

0.42" END TRII WIDTH	M							0.42" END TRIM WIDTH
000	STARTER	000	0	JOINER	000	0	ENDER	000
	FIXTURE LENGTH			FIXTURE LENGTH			FIXTURE LENG	тн