

SYNTHESIS® LED LINEAR

SYNTHESIS® LED LINEAR is a sleek suspended fixture with both direct and indirect capability. Use it for direct/indirect lighting, or direct lighting alone. The minimal design packs numerous output configurations, 9 beam angle options, and a selection of elegant finishes to complement any space. Up to 90" (2.3m) in length and connectable to make longer runs.

SYNTHESIS® is designed to create a variety of light output configurations. The direct light includes a highly engineered range of narrow beam angle lenses that direct light into specific areas with precision. The included louver minimizes glare by framing the individual LEDs, eliminating light at unwanted angles. Simplicity and custom configurations make SYNTHESIS® LED LINEAR the ideal fixture for any space.

- Available as direct light only or direct + indirect
- 3 Direct & 6 Indirect Beam Angles
- Total lumens: 2134 lm/ft (6999.5 lm/m)
- Available in 2 Profiles: Square & Rounded edges
- Available in Black, Silver, White & Gold
- Snap-in Louver reduces glare
- Aircraft cable combines power and suspension
- Due to the compact size of this fixture it is available with remote-driver only
- Assembled in USA



Applications:

Commercial
Entertainment
Healthcare

Hospitality
Museums
Public Spaces

Residential
Retail



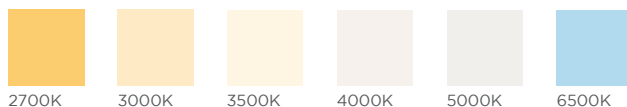
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ORDERING GUIDE

Category	Body Style	Output	Fixture Length
SYN			
SYN - Synthesis Linear	1 - Square	LO - Low Output Direct Only	SO-LO - Standard Output Direct, Low Output Indirect
		SO - Standard Output Direct Only	SO-SO - Standard Output Direct, Std Output Indirect
	2 - Rounded	HO - High Output Direct Only	SO-HO - Standard Output Direct, High Output Indirect
		LO-LO - Low Output Direct, Low Output Indirect	HO-LO - High Output Direct, Low Output Indirect
		LO-SO - Low Output Direct, Standard Output Indirect	HO-SO - High Output Direct, Standard Output Indirect
		LO-HO - Low Output Direct, High Output Indirect	HO-HO - High Output Direct, High Output Indirect
			7 - 7 ft - 78.94" (200.51 cm)
			8 - 8 ft - 90.19" (229.08 cm)

Color Temp Direct	Color Temp Indirect*	Beam Angle Direct	Beam Angle Indirect*	Body Finish	
27 - 2700K	27 - 2700K	15 - 15° (down only)	120 - 120° (up only)	AL - Silver/Aluminum	*To order Direct Light Only , please leave indirect options blank. Fixture is not available as indirect only. Maximum fixture length is 8 feet. Can be connected to make longer runs than 8 feet, but each 8 foot section will have its own driver.
30 - 3000K	30 - 3000K	26 - 26° (down only)	75 - 75° (up only)	K - Black	
35 - 3500K	35 - 3500K	40 - 40° (down only)	90 - 90x113° (up only)	W - White	
40 - 4000K	40 - 4000K		92 - 92x33° (up only)	G - Gold	
50 - 5000K	50 - 5000K		10 - 10° (up only)	C - Custom	
65 - 6500K	65 - 6500K		AS - Narrow Asymmetric (up only)		

AVAILABLE COLOR TEMPERATURES



SPECIFICATIONS

SPECIFICATIONS	DIRECT LIGHT		
Power Consumption	LO: 5.19 W/ft (17 W/m)	SO: 7.01 W/ft (23 W/m)	HO: 11.85 W/ft (38.87 W/m)
Lumen Output	LO: 573 lm/ft (1879 lm/m)	SO: 768 lm/ft (2519 lm/m)	HO: 1179 lm/ft (3866 lm/m)
Efficiency	LO: 110 lm/W	SO: 109 lm/W	HO: 99 lm/W
Dimming	0-10V or DALI		
Beam Angle	15°, 26°, 40°		
Color Temperature	2700K, 3000K, 3500K, 4000K, 5000K, 6500K		
CRI	90+		
UGR Rating	UGR <13 (15° lens) <13 (26° lens) <9.5 (40° lens)		
Storage Temperature	4° F to 120° F (-20° C to 50° C)		
Lamp Life	54,440 Hours		

SPECIFICATIONS	INDIRECT LIGHT		
Power Consumption	LO: 4.4 W/ft (14.43 W/m)	SO: 6.0 W/ft (19.68 W/m)	HO: 10.3 W/ft (33.78 W/m)
Lumen Output	LO: 416 lm/ft (1364 lm/m)	SO: 563 lm/ft (1846 lm/m)	HO: 955 lm/ft (3132 lm/m)
Efficiency	LO: 94 lm/W	SO: 94 lm/W	HO: 93 lm/W
Dimming	0-10V or DALI		
Beam Angle	120°, 75°, 90x113°, 92x33°, 10° and Narrow Asymmetric		
Color Temperature	2700K, 3000K, 3500K, 4000K, 5000K, 6500K		
CRI	80+		
Storage Temperature	4° F to 120° F (-20° C to 50° C)		
Lamp Life	50,000 Hours		

SPECIFIED LENGTH	ACTUAL LENS LENGTH	END CAP LENGTH (2 PCS)	ACTUAL TOTAL LENGTH
2 feet	22.49" (571.2 mm)	0.24" (6.1 mm)	22.73" (577.3 mm)
3 feet	33.73" (856.8 mm)	0.24" (6.1 mm)	33.97" (862.8 mm)
4 feet	44.98" (1142.4 mm)	0.24" (6.1 mm)	45.22" (1148.6 mm)
5 feet	56.22" (1428 mm)	0.24" (6.1 mm)	56.46" (1434.1 mm)
6 feet	67.46" (1713.6 mm)	0.24" (6.1 mm)	67.70" (1719.6 mm)
7 feet	78.7" (1999.2 mm)	0.24" (6.1 mm)	78.94" (2005.1 mm)
8 feet	89.95" (2284.8 mm)	0.24" (6.1 mm)	90.19" (2290.8 mm)

LUMEN OUTPUT FOR EACH TEMPERATURE			
Color Temperature	DIRECT LIGHT		INDIRECT LIGHT
2700K	X		x 0.83
3000K	x 1.10		x 0.95
3500K	x 1.10		X
4000K	x 1.14		x 0.98
5000K	x 1.18		x 0.99
6500K	x 1.14		x 0.98

SPECIFICATIONS

SYNTHESIS® DRIVER MATRIX										
Length		Direct Only								
		LO			SO			HO		
2 feet		20W 270mA			20W 360mA			25W 614mA		
3 feet		20W 405mA			20W 540mA			36W 921mA		
4 feet		20W 540mA			36W 720mA			50W 1228mA		
5 feet		25W 675mA			36W 900mA			75W 1535mA		
6 feet		36W 810mA			50W 1080mA			75W 1842mA		
7 feet		36W 945 mA			50W 1260mA			95W 2149mA		
8 feet		50W 1080mA			75W 1440mA			95W 2456mA		
Length		Direct + Indirect								
		LO/LO	LO/SO	LO/HO	SO/LO	SO/SO	SO/HO	HO/LO	HO/SO	HO/HO
2 feet	Indirect	20W 270mA	20W 360mA	25W 614mA	20W 270mA	20W 360mA	25W 614mA	20W 270mA	20W 360mA	25W 614mA
	Direct	20W 270mA	20W 270mA	20W 270mA	20W 360mA	20W 360mA	20W 360mA	25W 614mA	25W 614mA	25W 614mA
3 feet	Indirect	20W 405mA	20W 540mA	36W 921mA	20W 405mA	20W 540mA	36W 921mA	20W 405mA	20W 540mA	36W 921mA
	Direct	20W 405mA	20W 405mA	20W 405mA	20W 540mA	20W 540mA	20W 540mA	36W 921mA	36W 921mA	36W 921mA
4 feet	Indirect	20W 540mA	36W 720mA	50W 1228mA	20W 540mA	36W 720mA	50W 1228mA	20W 540mA	36W 720mA	50W 1228mA
	Direct	20W 540mA	20W 540mA	20W 540mA	36W 720mA	36W 720mA	36W 720mA	50W 1228mA	50W 1228mA	50W 1228mA
5 feet	Indirect	25W 675mA	36W 900mA	75W 1535mA	25W 675mA	36W 900mA	75W 1535mA	25W 675mA	36W 900mA	75W 1535mA
	Direct	25W 675mA	25W 675mA	25W 675mA	36W 900mA	36W 900mA	36W 900mA	75W 1535mA	75W 1535mA	75W 1535mA
6 feet	Indirect	36W 810mA	50W 1080mA	75W 1842mA	36W 810mA	50W 1080mA	75W 1842mA	36W 810mA	50W 1080mA	75W 1842mA
	Direct	36W 810mA	36W 810mA	36W 810mA	50W 1080mA	50W 1080mA	50W 1080mA	75W 1842mA	75W 1842mA	75W 1842mA
7 feet	Indirect	36W 945mA	50W 1260mA	95W 2149mA	36W 945mA	50W 1260mA	95W 2149mA	36W 945mA	50W 1260mA	95W 2149mA
	Direct	36W 945mA	36W 945mA	36W 945mA	50W 1260mA	50W 1260mA	50W 1260mA	95W 2149mA	95W 2149mA	95W 2149mA
8 feet	Indirect	50W 1080mA	75W 1440mA	95W 2456mA	50W 1080mA	75W 1440mA	95W 2456mA	50W 1080mA	75W 1440mA	95W 2456mA
	Direct	50W 1080mA	50W 1080mA	50W 1080mA	75W 1440mA	75W 1440mA	75W 1440mA	95W 2456mA	95W 2456mA	95W 2456mA

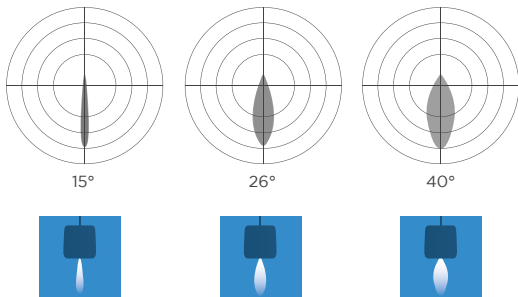
DRIVER DIMENSIONS		
	Driver	Dimensions (L x W x H)
25 W		4.21 x 2.38 x 0.98 in. (107 x 60.4 x 0.98 mm)
50 W		4.21 x 3.01 x 1.18 in. (107 x 76.4 x 30 mm)
95 W		8.37 x 1.7 x 1.14 in. (212.6 x 43.2 x 29 mm)

DIMENSIONS / DIAGRAMS / BEAM ANGLES

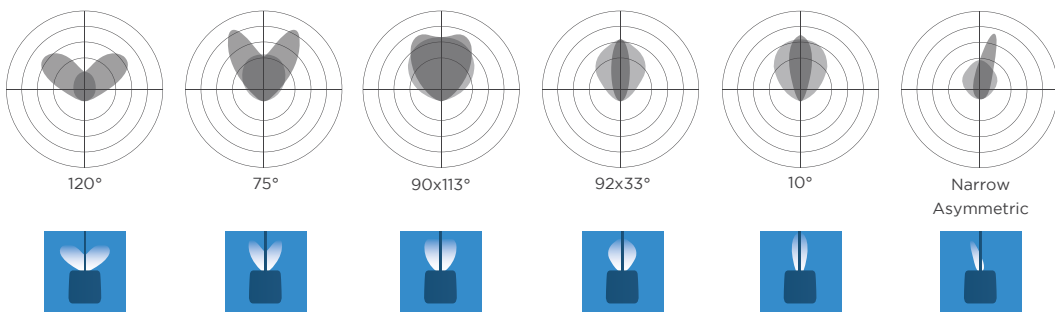
SPECIFICATIONS	ROUNDED	SQUARE
		
Width	1.97 in (50 mm)	2.13 in (54 mm)
Height	1.97 in (50 mm)	2.05 in (52 mm)
Length All measurements exclude end caps End caps add .25 in (6.35 mm) to overall length of fixture	2 ft (22.49" / 571.2 mm)	2 ft (22.49" / 571.2 mm)
	3 ft (33.73" / 856.8 mm)	3 ft (33.73" / 856.8 mm)
	4 ft (44.98" / 1142.4 mm)	4 ft (44.98" / 1142.4 mm)
	5 ft (56.22" / 1428 mm)	5 ft (56.22" / 1428 mm)
	6 ft (67.46" / 1713.6 mm)	6 ft (67.46" / 1713.6 mm)
	7 ft (78.7" / 1999.2 mm)	7 ft (78.7" / 1999.2 mm)
	8 ft (89.95" / 2284.8 mm)	8 ft (89.95" / 2284.8 mm)
		

BEAM ANGLES

DIRECT



INDIRECT



PHOTOMETRICS

DIRECT SIDE LUX

	LO			SO			HO		
15°		4304 lux	1m 0.93m		5872 lux	1m 0.93m		9228 lux	1m 0.93m
		1076 lux	2m 1.87m		1468 lux	2m 1.87m		2307 lux	2m 1.87m
		269 lux	4m 3.73m		367 lux	4m 3.73m		577 lux	4m 3.73m
		67 lux	8m 7.46m		92 lux	8m 7.46m		144 lux	8m 7.46m
26°		1856 lux	1m 0.93m		2537 lux	1m 0.93m		3943 lux	1m 0.93m
		464 lux	2m 1.87m		634 lux	2m 1.87m		986 lux	2m 1.87m
		116 lux	4m 3.73m		159 lux	4m 3.73m		246 lux	4m 3.73m
		29 lux	8m 7.46m		40 lux	8m 7.46m		62 lux	8m 7.46m
		Illuminance	Distance diameter		Illuminance	Distance diameter		Illuminance	Distance diameter
40°		1001 lux	1m 0.93m		1369 lux	1m 0.93m		2129 lux	1m 0.93m
		250 lux	2m 1.87m		342 lux	2m 1.87m		532 lux	2m 1.87m
		63 lux	4m 3.73m		86 lux	4m 3.73m		133 lux	4m 3.73m
		16 lux	8m 7.46m		21 lux	8m 7.46m		33 lux	8m 7.46m
		Illuminance	Distance diameter		Illuminance	Distance diameter		Illuminance	Distance diameter

*Nadir Lux Values

*Tested with 3500K, 11.24" (285.6 mm) sample

PHOTOMETRICS

INDIRECT SIDE LUX

	LO		SO		HO																																																												
120°	<table><tr><td>89 lux</td><td></td><td>1m 0.93m</td><td>3.28ft 3.05ft</td></tr><tr><td>22 lux</td><td></td><td>2m 1.87m</td><td>6.56ft 6.14ft</td></tr><tr><td>6 lux</td><td></td><td>4m 3.73m</td><td>13.12ft 12.24ft</td></tr><tr><td>1 lux</td><td></td><td>8m 7.46m</td><td>26.25ft 24.48ft</td></tr><tr><td>Illuminance</td><td></td><td>Distance</td><td>diameter</td></tr></table>	89 lux		1m 0.93m	3.28ft 3.05ft	22 lux		2m 1.87m	6.56ft 6.14ft	6 lux		4m 3.73m	13.12ft 12.24ft	1 lux		8m 7.46m	26.25ft 24.48ft	Illuminance		Distance	diameter		<table><tr><td>122 lux</td><td></td><td>1m 0.93m</td><td>3.28ft 3.05ft</td></tr><tr><td>30 lux</td><td></td><td>2m 1.87m</td><td>6.56ft 6.14ft</td></tr><tr><td>8 lux</td><td></td><td>4m 3.73m</td><td>13.12ft 12.24ft</td></tr><tr><td>2 lux</td><td></td><td>8m 7.46m</td><td>26.25ft 24.48ft</td></tr><tr><td>Illuminance</td><td></td><td>Distance</td><td>diameter</td></tr></table>	122 lux		1m 0.93m	3.28ft 3.05ft	30 lux		2m 1.87m	6.56ft 6.14ft	8 lux		4m 3.73m	13.12ft 12.24ft	2 lux		8m 7.46m	26.25ft 24.48ft	Illuminance		Distance	diameter		<table><tr><td>215 lux</td><td></td><td>1m 0.93m</td><td>3.28ft 3.05ft</td></tr><tr><td>54 lux</td><td></td><td>2m 1.87m</td><td>6.56ft 6.14ft</td></tr><tr><td>13 lux</td><td></td><td>4m 3.73m</td><td>13.12ft 12.24ft</td></tr><tr><td>3 lux</td><td></td><td>8m 7.46m</td><td>26.25ft 24.48ft</td></tr><tr><td>Illuminance</td><td></td><td>Distance</td><td>diameter</td></tr></table>	215 lux		1m 0.93m	3.28ft 3.05ft	54 lux		2m 1.87m	6.56ft 6.14ft	13 lux		4m 3.73m	13.12ft 12.24ft	3 lux		8m 7.46m	26.25ft 24.48ft	Illuminance		Distance	diameter
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*Nadir Lux Values

*Tested with 3500K, 11.24" (285.6 mm) sample

PHOTOMETRICS / COUPLERS

INDIRECT SIDE LUX CONTINUED

	LO	SO	HO	
10°	480 lux 120 lux 30 lux 8 lux Illuminance 1m 0.93m 2m 1.87m 4m 3.73m 8m 7.46m Distance diameter 3.28ft 3.05ft 6.56ft 6.14ft 13.12ft 12.24ft 26.25ft 24.48ft	647 lux 162 lux 40 lux 10 lux Illuminance 1m 0.93m 2m 1.87m 4m 3.73m 8m 7.46m Distance diameter 3.28ft 3.05ft 6.56ft 6.14ft 13.12ft 12.24ft 26.25ft 24.48ft	986 lux 247 lux 62 lux 15 lux Illuminance 1m 0.93m 2m 1.87m 4m 3.73m 8m 7.46m Distance diameter 3.28ft 3.05ft 6.56ft 6.14ft 13.12ft 12.24ft 26.25ft 24.48ft	
	Narrow Asymmetric	251 lux 63 lux 16 lux 4 lux Illuminance 1m 0.93m 2m 1.87m 4m 3.73m 8m 7.46m Distance diameter 3.28ft 3.05ft 6.56ft 6.14ft 13.12ft 12.24ft 26.25ft 24.48ft	618 lux 155 lux 39 lux 10 lux Illuminance 1m 0.93m 2m 1.87m 4m 3.73m 8m 7.46m Distance diameter 3.28ft 3.05ft 6.56ft 6.14ft 13.12ft 12.24ft 26.25ft 24.48ft	818 lux 204 lux 51 lux 13 lux Illuminance 1m 0.93m 2m 1.87m 4m 3.73m 8m 7.46m Distance diameter 3.28ft 3.05ft 6.56ft 6.14ft 13.12ft 12.24ft 26.25ft 24.48ft

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*Tested with 3500K, 11.24" (285.6 mm) sample

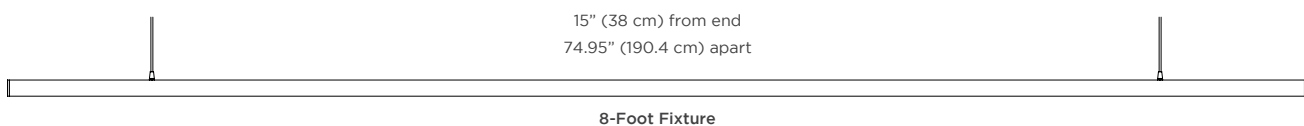
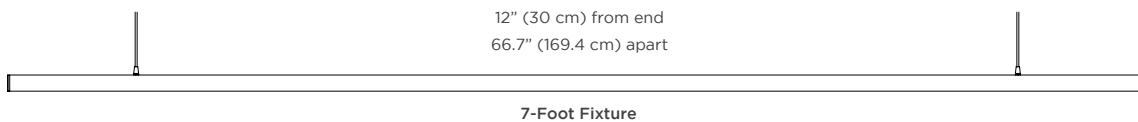
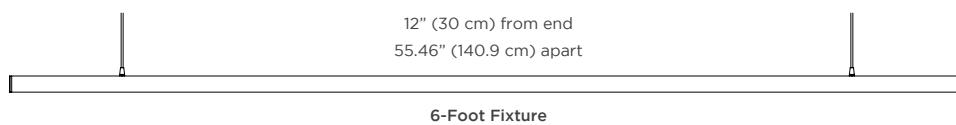
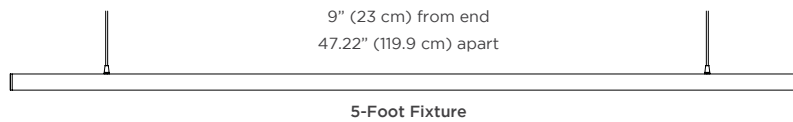
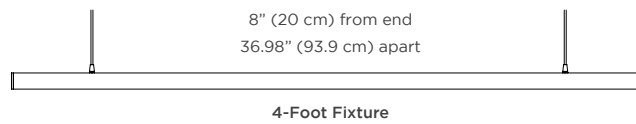
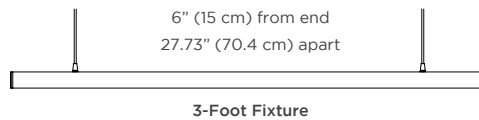
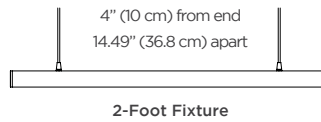
COUPLERS

*For connecting fixtures to create seamless runs greater than 8 feet. Each individual fixture requires it's own power supply.

ROUND		Synthesis Round Coupler Acolyte Part Number: SYNCOUPR
SQUARE		Synthesis Square Coupler Acolyte Part Number: SYNCOUPS

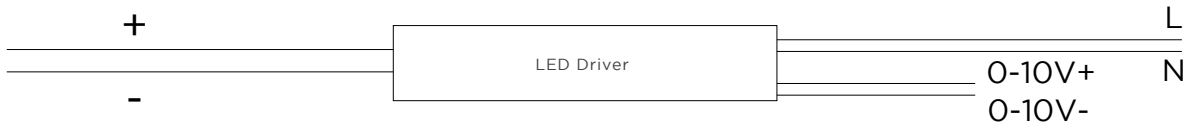
SPECIFICATIONS

Suggested Suspension Wire Separated Distances



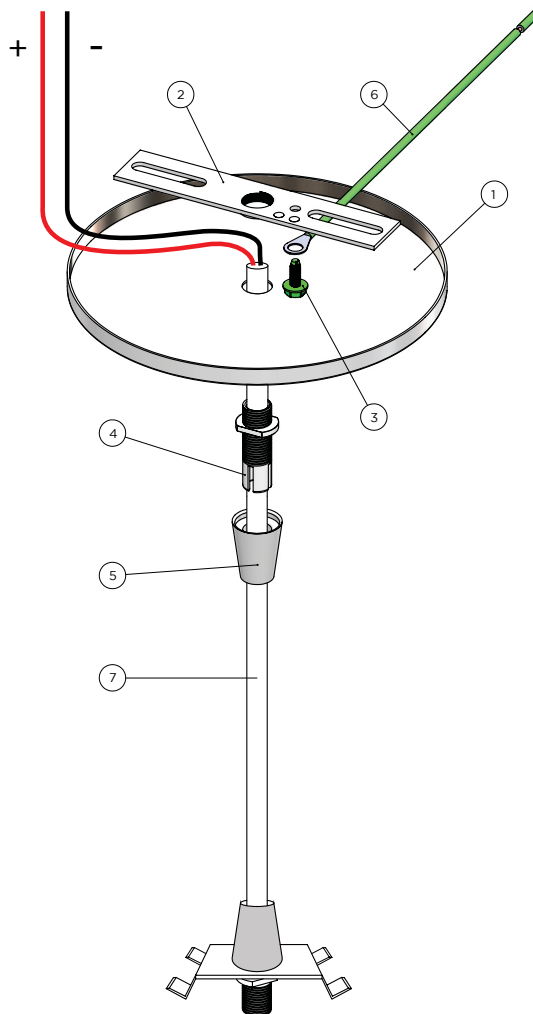
SYNTHESIS[®] LED LINEAR PENDANT INSTALLATION

STEP 1: Connect + and - wires from driver to the red (+) and black (-)



STEP 2: Mount canopy kit to junction box by affixing Cross Bar (2) to junction box, and then screwing Cord Grip Base and CG Cap until it's tight against canopy

1. 5" Canopy
2. 1/8" IP Cross Bar 3.871"L x 0.742"W
Zinc Plated x 16 Gauge
3. 8/32 Green Ground Screw
4. 1/8" IP Male (Pair with CG Cap
for MINI Cord Grip)
5. Cord Grip Cap 1/8" IP Female with CG
Base for 0.190"-0.260" Dia. Round
Cord. Intertek Certified to UL#635
Standard.
6. 6" L Green
7. 0.24" OD Cable



STEP 3: Completed fixture pictured below

