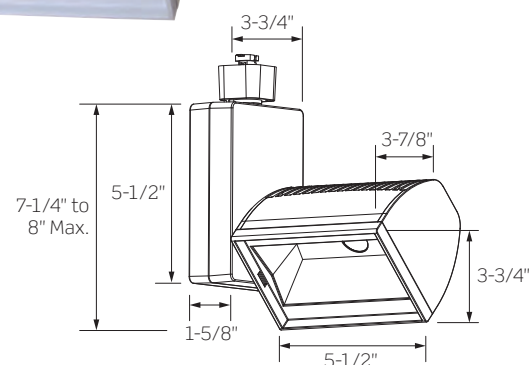
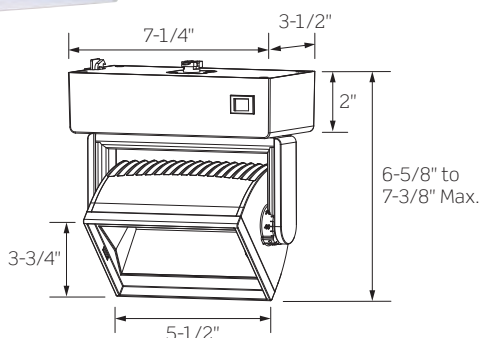


DATE

PROJECT

TYPE

CTL18 SERIES | Stealth Wall Lighter Track Luminaires



	CTL189	CTL180	CTL181	CTL182	CTL183	CTL184
WATTAGE	16W	22W	31W	36W	43W	47W
LUMEN OUTPUT ¹	2200Lm	3000Lm	4100Lm	4700Lm	5400Lm	5900Lm
COLOR TEMPERATURE	2700K / 3000K / 3500K / 4000K					
CRI	83 (80min) / 90+					
DRIVER INPUT WATTAGE	16W	22W	31W	36W	43W	47W
DRIVER INPUT VOLTAGE	120V, 50/60Hz; Dimmable at 120V only					
DIMMING TYPE	TRIAC/Incandescent (Forward Phase) and ELV (Reverse Phase)					
COMPATIBILITY	CTL Units are compatible with ConTech Lighting LT/LT2 Single Circuit/Two Circuit Track Systems and Luxbeam Track Systems, as well as Juno ^{®2} Lighting Trac-Master [™] Systems HTL Units are compatible with Halo ³ Power-Trac and Lazer Track Systems LTL Units are compatible with Lightolier ⁴ Lytespan [®] Systems					
LISTINGS	cCSAus Certified to UL Standards on Base Models; Suitable for Dry Locations ENERGY STAR [®] Certified All Vertical Housings are DLC Listed; Horizontal model CTL180H3D in all finishes is DLC Listed 35W Vertical Luminaire in 3000K, 3500K and 4000K can be used to comply with the 2016 Title 24 Part 6 JA8 high efficacy LED light source requirements ⁵					
WARRANTY	Five (5) year replacement after date of purchase					
SYSTEM RATING	50,000 Hours @ 70% Lumen Maintenance					

1. Approximate lumen output based on 3000K performance; see photometric test results for additional information
2. Only Vertical Housing (CTL18V) is Title 24 Part 6 compliant
3. Juno is a registered trademark of Juno Lighting
4. Halo is a registered trademark of Cooper Lighting
5. Lightolier is a registered trademark of Signify

DATE

PROJECT

TYPE

CTL18 SERIES | Stealth Wall Lighter Track Luminaires

ORDERING INFORMATION

Example Order: —

Track System	Luminaire	Orientation	Color Temp/CRI	Dimming	Finish
CTL - ConTech	189 - 16W / 2200Lm	H - Horizontal	<i>83 (80min) CRI</i>	D - TRIAC / ELV Dimming	B - Black
HTL - Halo ¹	180 - 22W / 3000Lm	V - Vertical	27 - 2700K		P - White
LTL - Lightolier ²	181 - 31W / 4100Lm		3 - 3000K		S - Silver
	182 - 36W / 4700Lm		35 - 3500K		
	183 - 43W / 5400Lm		4 - 4000K		
	184 - 47W / 5900Lm		<i>90+ CRI</i>		
			27C - 2700K		
			3C - 3000K		
			35C - 3500K		
			4C - 4000K		

1. Halo is a registered trademark of Cooper Lighting
2. Lightolier is a registered trademark of Signify

PRODUCT DETAILS

Construction

- Cast and finned aluminum Heatsink thermally engineered to provide optimal heat dissipation, ensuring long life and consistent performance
- Lockable, precision aiming adjustment: 360°+ horizontal aiming
Vertical Housing has 360° vertical rotation
Horizontal Housing has 220° vertical rotation
- Integral ON/OFF Switch and Track Polarity Indicator are standard
- Can accept up to two (2) media by using the FA-18 Accessory Holder, FA-48 Snoot, FA-51 Visor or BD18 Barn Doors
- For accessory ordering information, see page 3

Performance Summary

- 2700K, 3000K, 3500K and 4000K Color Temperatures; excellent fixture-to-fixture color consistency within a 3-step MacAdam Ellipse tolerance
- 80 CRI min., 83 typical; high CRI 90+ available
- Smooth, wide beam with excellent uniformity; well suited for any wall lighting application
- Dimming is available in 120V only
- CTL18 Luminaires utilize Drivers manufactured by ERP and Lutron; for additional information, consult factory
- For Dimmer compatibility, refer to Dimming Specification sheet

Fixture Compatibility

- Standard ConTech Track Luminaires (CTL Units) are cCSAus Certified as-is for use with ConTech Lighting LT/LT2 Single Circuit/Two Circuit Track and Luxbeam Track Systems, as well as Juno^{®4} Lighting Trac-Master™ Systems
- By changing the prefix of the part number, ConTech can install inserts to make our fixtures compatible with other manufacturers. Replace "CTL" with "HTL" for Halo® Power-Trac and Lazer-Track systems, and "LTL" for Lightolier Lytespan™ Systems. For more information, consult factory.

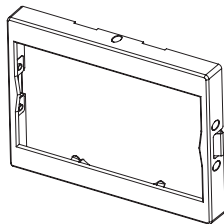
4. Juno is a registered trademark of Juno Lighting

DATE

PROJECT

TYPE

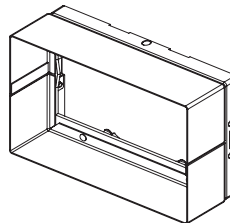
CTL18 SERIES | Stealth Wall Lighter Accessories



Accessory Holder

5-1/4-Inch W x 3-1/2-Inch H x 3/8-Inch D
Accepts up to two (2) LF48 Lenses or FA-52 Louvers.

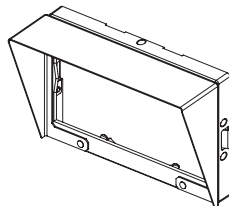
Accessory	Finish
FA-18 - Accessory Holder	B - Black P - White



Snoot

5-1/4-Inch W x 3-1/2-Inch H x 1-1/8-Inch D
Snoot extends 3/4" from face of fixture. Will accept up to two (2) LF48 lenses or FA-52 louvers. For White (–P) and Silver (–S) finishes, the inside surface is black

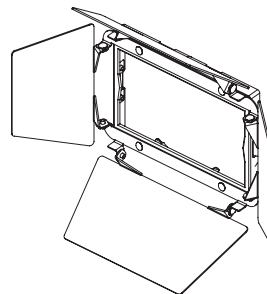
Accessory	Finish
FA-48 - Snoot	B - Black P - White S - Silver



Visor

5-1/4-Inch W x 3-1/2-Inch H x 3/8-Inch D
Visor extends 3/4" from face of fixture. Will accept up to two (2) LF48 lenses or FA-52 louvers. For White (–P) and Silver (–S) finishes, the inside surface is black.

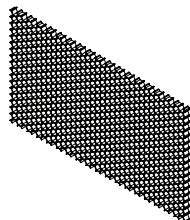
Accessory	Finish
FA-51 - Visor	B - Black P - White S - Silver



Barn Doors

5-1/4-Inch W x 3-1/2-Inch H
Barn doors extend 3-inches max. from face of fixture. Will accept up to two (2) LF48 lenses or FA-52 louvers.
Width: 4-1/2" to 10-3/4"
Height: 3-1/2" to 9"

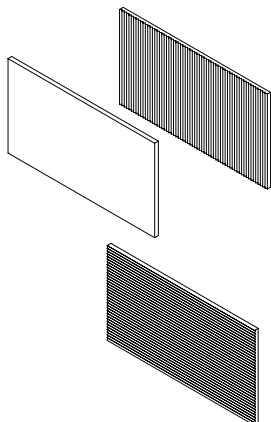
Accessory	Finish
BD18 - Barn Doors	B - Black P - White S - Silver



Honeycomb Louver

4-15/16-Inch W x 2-3/4-Inch H x 1/8-Inch D
Glare control and shielding accessory. Black finish.

Accessory
FA-52 - Honeycomb Louver



Tempered Glass Lenses

4-15/16-Inch W x 2-3/4-Inch H x 1/8-Inch D
Requires FA-19 Accessory Holder.

Accessory
LF48 - Tempered Glass Lenses

Finish	
73 - Spread Lens	A - Amber
LSH - Linear Spread Lens, Horizontal <i>Elongates beams horizontally</i>	B - Blue
LSV - Linear Spread Lens, Vertical <i>Elongates beams vertically</i>	CL - Clear
SL - Soft Light	DPE - Dichroic Peach
SOL - Solite	G - Green
UV - Optivex UV Filter	LB - Light Blue
	R - Red
	RO - Rose
	Y - Yellow

DATE

PROJECT

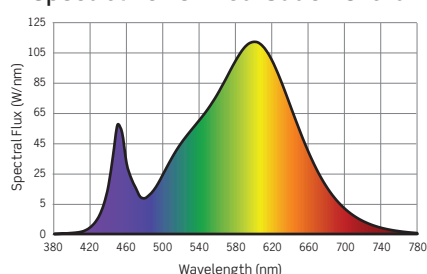
TYPE

CTL18 SERIES | Stealth Wall Lighter Photometrics

PHOTOMETRICS: CTL184V3D/CTL184H3D

Color Rendering Index (CRI)¹: 80.9
Color Temperature (CCT)²: 3116K
Designed for 50,000 Hour Lamp Life³
LM-79 Test: S19041604

Spectral Power Distribution Chart⁴



LED SERIES	TOTAL W @ 120V	DELIVERED LMS	LM/WATT	LM-63 TEST
CTL189 16W/SERIES 1	15.8W	2236Lm	141.5	G19032206
CTL180 22W/SERIES 2	21.9W	3049Lm	139.2	G19032204
CTL181 31W/SERIES 3	30.4W	4107Lm	135.1	G19032202
CTL182 36W/SERIES 4	35.8W	4718Lm	131.8	G19032104
CTL183 43W/SERIES 5	42.6W	5418Lm	127.2	G19032102
CTL184 47W/SERIES 6	45.9W	6002Lm	130.6	G19041502

1. Accuracy of Rendering Colors 2. Color Appearance of Light Source 3. Dependent on Surrounding Temperatures 4. Colors Present within the Light Source

PHOTOMETRIC MULTIPLICATION FACTORS

Lumen output values fluctuate based on wattage, CCT and CRI. To estimate lumen output of the various options, multiply CTL184 (3000K, Standard CRI) results using the following tables:

DIMMING MULTIPLIERS		
LED SERIES	STD DIMMING	D3 OPTION
CTL189 16W/SERIES 1	0.37	0.30
CTL180 22W/SERIES 2	0.51	0.43
CTL181 31W/SERIES 3	0.68	0.61
CTL182 36W/SERIES 4	0.79	N/A
CTL183 43W/SERIES 5	0.90	N/A

CCT MULTIPLIERS		
CCT	STD CRI	HIGH CRI
2700K	0.95	0.74
3000K	N/A	0.85
3500K	1.03	0.89
4000K	1.07	0.92

DATE

PROJECT

TYPE

CTL18 SERIES | Stealth Wall Lighter Photometrics

PHOTOMETRICS: CTL184V3D/CTL184H3D

Footcandles on Wall: Track 3 Feet From Wall, 10 FT Mounting Height, Tilted 40 Degrees ▲ is beam center

		Single Unit						Multiple Units								
		0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	4 FT on Center			6 FT on Center			8 FT on Center		
		▲						▲		▲	▲			▲		▲
Distance from Ceiling	1 FT	169	142	91	48	15	4	197	191	201	176	98	175	170	30	173
	2 FT	227	193	129	80	38	11	303	265	305	233	166	231	228	78	229
	3 FT	184	161	114	79	51	23	289	248	290	201	162	201	187	101	188
	4 FT	114	105	80	60	42	27	202	189	203	142	122	142	119	87	119
	5 FT	64	59	50	38	29	22	129	132	130	95	80	95	72	60	72
	6 FT	37	35	31	25	20	16	89	91	89	64	58	64	49	42	49
	7 FT	23	23	21	18	14	12	65	67	66	46	45	46	36	32	37
	8 FT	16	16	15	13	11	9	50	51	51	35	35	34	27	25	28
	9 FT	12	12	11	10	9	8	38	39	38	26	26	26	21	20	21

Footcandles on Wall: Track 4 Feet From Wall, 10 FT Mounting Height, Tilted 40 Degrees ▲ is beam center

		Single Unit						Multiple Units								
		0 FT	1 FT	2 FT	3 FT	4 FT	5 FT	4 FT on Center			6 FT on Center			8 FT on Center		
		▲						▲		▲	▲			▲		▲
Distance from Ceiling	1 FT	74	67	53	37	21	8	111	111	113	83	77	82	77	42	78
	2 FT	125	113	86	62	42	22	212	192	214	145	128	144	130	87	131
	3 FT	117	109	88	65	47	31	217	210	218	152	134	151	125	95	125
	4 FT	101	94	76	57	44	33	195	195	196	141	121	141	108	90	108
	5 FT	71	68	59	47	37	29	161	163	161	116	102	115	86	76	87
	6 FT	47	45	40	33	27	22	119	121	120	84	78	84	66	56	67
	7 FT	31	30	27	24	20	17	89	90	90	61	60	62	49	43	50
	8 FT	21	20	19	17	15	13	67	70	68	47	48	47	37	35	37
	9 FT	15	15	13	12	11	10	51	53	54	37	37	37	28	28	28

DATE

PROJECT

TYPE

CTL18 SERIES | Stealth Wall Lighter Photometrics

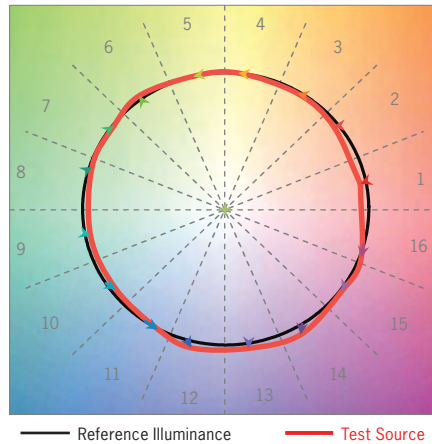
TM-30 DATA: CTL184V3D/CTL184H3D

ANSI/IES TM-30-18 Color Rendition Report Test No. S21012903

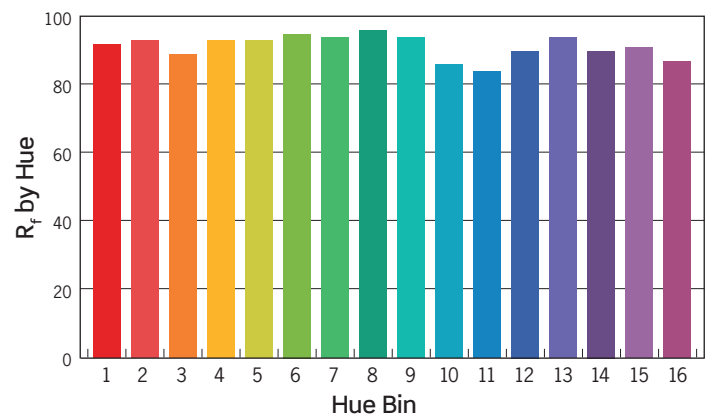
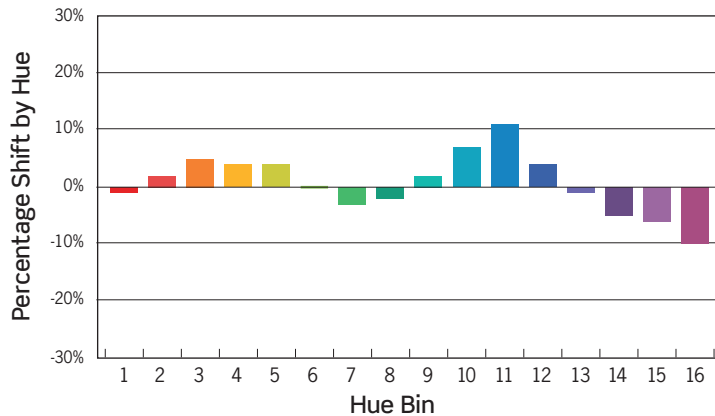
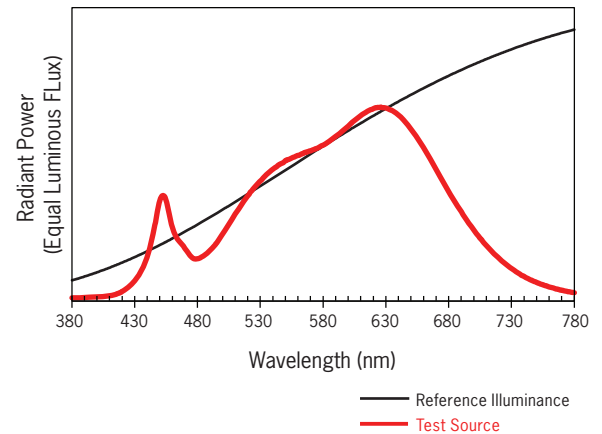
Colors are for visual orientation purposes only

R_f	91
R_g	100
CCT(K)	3111K
D_{uv}	0.0022
u^I	0.2460
v^I	0.5222

Color Vector Graphic



Spectral Power Distribution Comparison



HUE BIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
HUE SHIFT	-1%	2%	5%	4%	4%	0%	-3%	-2%	2%	7%	11%	4%	-1%	-5%	-6%	-10%
R_f VALUE	92	93	89	93	93	95	94	96	94	86	84	90	94	90	91	87

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CTL18/CTL19 SERIES | Stealth Series Track Luminaires: Dimming Specifications

- Incandescent 120V AC Dimmers adjust the light with *Forward Phase Control*, where the Dimmer “chops” the forward part of the AC Wave to deliver less or more power to the light source. No Neutral Wire Connection required.
- Electronic Low Voltage 120V AC Dimmers adjust the light with *Reverse Phase Control*, where the Dimmer “chops” the back part of the AC Wave to deliver less or more power to the light source. Neutral Wire Connection required.
- Lutron HiLume Drivers provide continuous dimming from 1%–100%. For a complete list of compatible Dimmers and Controls, visit www.lutron.com

			TRIAC, ELV, 0-10V DIMMING (MVD Option*)
Manufacturer	Product	Model	Light Output
Leviton	Vizia	VPE06	4%-100%
Leviton	Decora	6673-10W	11%-100%
Lutron	Ariadni	TGCL-153P	0%-100%
Lutron	Diva	DVCL-153P	0%-100%
Lutron	Diva	DVELV303P	3%-100%
Lutron	Skylark	SELV300P	3%-100%
Lutron	Maestro	MAELV600	0%-100%
Lutron	Faetra	FAELV500	7%-100%
Lutron	Skylark C	SCL-153P	0%-100%
Lutron	Maestro C•L	MACL-153M	0%-99%
Lutron	RA2 Select	RRD-6CL	2%-98%

*277V Triac Dimming is not available

NOTES

1. If light is measured, then the dimming range is based on light output. If light is not measured, then the dimming range is based on the percentage of output current.
2. Testing was performed with a single fixture connected to dimmer.
3. Testing has been performed on these dimmers, but this does not imply any warranty of compatibility.
4. Dimming performance can be influenced by different loads, as well as variations in dimmer switches within the same model.
5. Dimmer maximum load rating with LED may differ from published traditional source dimmer ratings. Consult manufacturer for maximum dimmer information.
6. Consult factory for additional dimming information.