

Project:		Catalog #:		Type:	
Preparer:		Notes:		Date:	

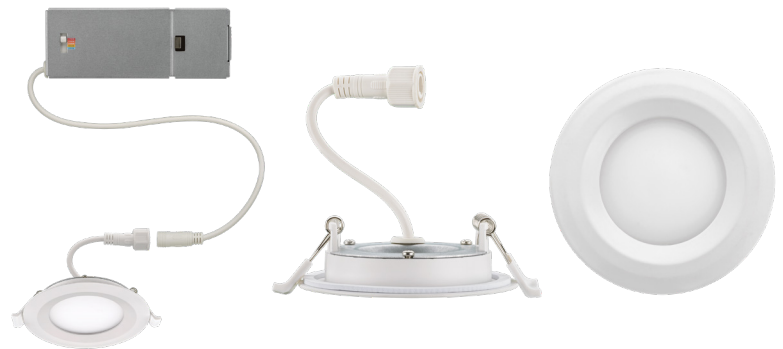


DLLP-3IN

3" LowPro Canless Direct Mount Downlight
Indoor | Outdoor 5-CCT ColorPreference®

Project Applications

Retrofit, New Construction, Residential, Multi-Family, Mixed Use
Light Commercial, Outdoor Soffit & Canopy, Porches, Entry Ways



PRODUCT OVERVIEW

ETi SSL's DLLP LowPro family of direct mount, ultra-low profile, wet location downlights are designed for use in both indoor and outdoor residential and light commercial applications. Our products are engineered using the latest innovative LED technologies to provide the perfect mix of modern design, performance, world class quality and reliability. All at a superior value to the designer, specifier, contractor and end-user.

The DLLP family is an extremely versatile product series designed for use in many retrofit, remodel or new construction applications. Installs quickly and directly into a drywall or drop ceiling without the need and expense of a separate recessed downlight housing or secondary junction box. Includes certifications to both ENERGY STAR® and the California Appliance Efficiency Database under JA8 that can be used to comply with California Title 24 Part 6 High Efficacy LED light source requirements.

ETi's patented integral ColorPreference® field selectable 5-CCT (2700K, 3000K, 3500K, 4000K & 5000K) comes standard in the DLLP family. A simple toggle switch on the remote driver housing/wiring box sets the desired CCT in the field. Helps to reduce SKU complexity while providing added design flexibility. Easily enhance user visual experiences for many tasks or applications that can require multiple color temperatures.

KEY PRODUCT FEATURES, DETAILS & SPECS

- Direct mount w/ spring clips - no separate recessed housing or j-box needed
- Ultra-low profile design with a fixture height of 1.1" ideal for shallow applications
- Type IC Rated for direct contact with insulation if applicable
- ColorPreference® field selectable 5-CCT (2700K, 3000K, 3500K, 4000K & 5000K)
- 90+ CRI with a R9 greater than 50 for true accurate color rendering
- Air Tight Certified per ASTM E283 helps HVAC energy efficiency & cost savings
- Wet location listed w/ IP65 cable connectors (showers, protected ceilings, etc.)
- 23" IP65 low voltage connecting cables standard (w/ optional 12' & 20' extension cables)
- 3" round delivers a minimum 552 lumens @ 9.6W, 2700K, 120V
- Dimmable to 10% with many common 120V TRIAC & ELV dimmers
- Residential & light commercial applications (retrofit, remodel, new construction)
- Optional new construction rough-in guide plates available
- Optional designer color trim rings available (3" coming early December 2020)
- Wiring compartment w/ easy push tabs for pulling wires per NEC Code
- California JA8 certified & can be used to comply with Title 24 requirements
- ENERGY STAR® rated to meet strict efficiency, quality & lifetime criteria

STOCK ORDERING INFORMATION^{1,2,3} (5-CCT ColorPreference field selectable)

Catalog Logic/PT#	Model #	Size	Lumens	Wattage	LPW	ColorPreference	CRI	Voltage	Dimming	Energy Star
DLLP-3IN-550LM-9-5CP-SV-TD	53840101	3"	552	9.6	58	2700K (factory)	90 (min)	120	TRIAC	Yes
			599		62	3000K				
			641		67	3500K				
			648		68	4000K				
			647		67	5000K				

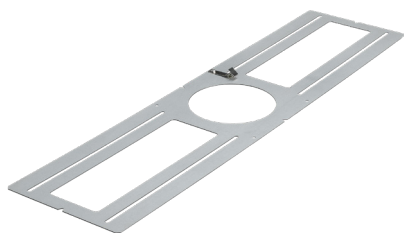
Notes:

1. Installing contractor responsible for ensuring desired CCT is selected during installation.
2. See next page for available stock accessories.
3. Search '538401##' on the ENERGY STAR® or CEC JA8 Database to view certifications.

DLLP-3IN

3" LowPro Canless Direct Mount Downlight
5-CCT ColorPreference® | 1.1" Ultra-low Profile | JA8 | ENERGY STAR® | 5-yr Warranty

AVAILABLE STOCK ACCESSORIES (must be ordered separately)



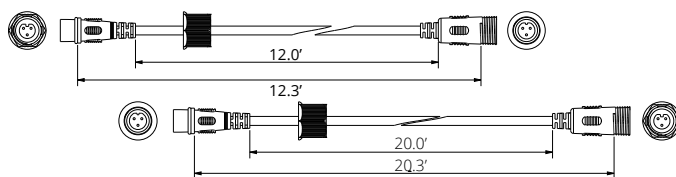
Rough-in Guide Plate (new construction)

Catalog Logic/PT#	Model #
LPGP-3IN	70306101



Emergency LED Driver/BBU (field installed)

Catalog Logic/PT#	Model #	Description
EMA25FY-170	70112202	25W, IP rated, 90 minutes



IP65 Extension Cables (low voltage)

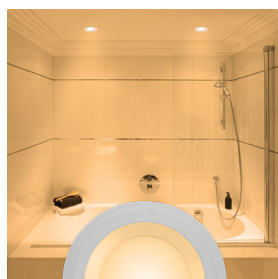
Catalog Logic/PT#	Model #
LP-12FT-EXTENCORD-IP65	906007760
LP-20FT-EXTENCORD-IP65	906007770



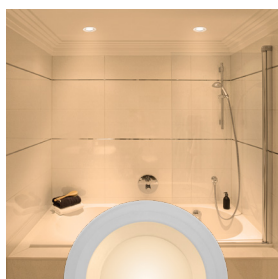
Designer Color Trim Rings

Catalog Logic/PT#	Model #	Finish
DLLP-3IN-G2-TRIM-BZ	906007960	Oil Rubbed Bronze
DLLP-3IN-G2-TRIM-B	906007970	Black
DLLP-3IN-G2-TRIM-BN	906007980	Brushed Nickel

5-CCT ColorPreference® (field selectable)



2700K



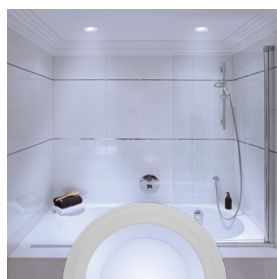
3000K



3500K



4000K



5000K



**COLOR
PREFERENCE®**

Patented ColorPreference® field selectable color temperature system and driver helps to provide added design flexibility and simplified SKU reduction and complexity.

An integrated switch on the remote driver box toggles between 2700K, 3000K, 3500K, 4000K and 5000K . (set to 2700K standard from the factory)



DLLP-3IN

3" LowPro Canless Direct Mount Downlight

5-CCT ColorPreference® | 1.1" Ultra-low Profile | JA8 | ENERGY STAR® | 5-yr Warranty

PHOTOMETRIC DETAILS

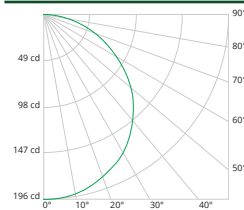
DLLP-3IN-550LM-9-5CP-SV-TD (2700K data)

Luminaire Data

IES File Name	53840101_27K.IES
CCT & CRI	2700K, 90CRI minimum
Initial Delivered Lumens	552
Wattage	9.6W
Efficacy	57.5
Beam Angle	50% = 112° 10% = 159°

Photometric values based on tests performed in compliance with LM-63 & LM-79.

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	153	27.7%
0-40	251	45.4%
0-60	443	80.3%
0-90	552	100.0%
0-180	n/a	n/a

Candlepower

Angle	0°	90°
0	196	196
5	196	196
10	193	193
15	189	189
20	184	183
25	176	176
30	167	167
35	156	157
40	144	145
45	132	132
50	117	118
55	102	102
60	86	86
65	68	69
70	50	51
75	32	33
80	16	16
85	5	4
90	0	0

Coefficients of Utilization

		Effective Floor Cavity Reflectance 20%															
		80%				70%				50%				30%			
rc	rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
RCR																	
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102
1		109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88
2		99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76
3		91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66
4		83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57
5		76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51
6		70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45
7		65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40
8		61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37
9		57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33
10		53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31

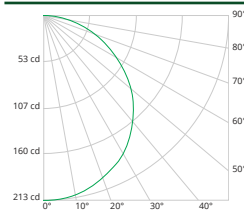
DLLP-3IN-550LM-9-5CP-SV-TD (3000K data)

Luminaire Data

IES File Name	53840101_30K.IES
CCT & CRI	3000K, 90CRI minimum
Initial Delivered Lumens	599
Wattage	9.6W
Efficacy	62.4
Beam Angle	50% = 112° 10% = 159°

Photometric values based on tests performed in compliance with LM-63 & LM-79.

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	166	27.7%
0-40	272	45.4%
0-60	481	80.3%
0-90	599	100.0%
0-180	n/a	n/a

Candlepower

Angle	0°	90°
0	213	213
5	213	212
10	210	209
15	205	205
20	200	199
25	191	191
30	181	182
35	170	170
40	157	157
45	143	143
50	127	128
55	111	111
60	93	94
65	73	75
70	55	55
75	35	35
80	17	17
85	6	4
90	0	0

Coefficients of Utilization

		Effective Floor Cavity Reflectance 20%															
		80%				70%				50%				30%			
rc	rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
RCR																	
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102
1		109	104	100	97	106	102	98	95	98	95	92	94	92	89	90	88
2		99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76
3		91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66
4		83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57
5		76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51
6		70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45
7		65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40
8		61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37
9		57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33
10		53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31

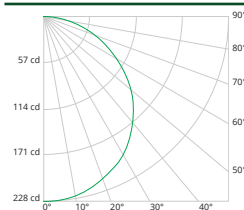
DLLP-3IN-550LM-9-5CP-SV-TD (3500K data)

Luminaire Data

IES File Name	53840101_35K.IES
CCT & CRI	3500K, 90CRI minimum
Initial Delivered Lumens	641
Wattage	9.6W
Efficacy	66.8
Beam Angle	50% = 112° 10% = 159°

Photometric values based on tests performed in compliance with LM-63 & LM-79.

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	178	27.7%
0-40	291	45.5%
0-60	515	80.3%
0-90	641	100.0%
0-180	n/a	n/a

Candlepower

Angle	0°	90°
0	228	228
5	228	227
10	225	224
15	220	220
20	214	213
25	205	205
30	194	194
35	182	182
40	168	168
45	153	153
50	136	137
55	119	119
60	99	100
65	79	80
70	59	59
75	37	38
80	18	18
85	6	5
90	0	0

Coefficients of Utilization

		Effective Floor Cavity Reflectance 20%															
		80%				70%				50%				30%			
rc	rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
RCR																	
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102
1		109	104	100	97	106	102	98	95	98	95	92	94	92	89	90	88
2		99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76
3		91	80	72	66	88	78	71	65	76	69	64	73	67	63	70	66
4		83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57
5		76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51
6		70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45
7		65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40
8		61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37
9		57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33
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PHOTOMETRIC DETAILS (cont'd)

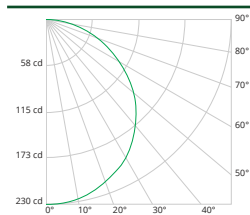
DLLP-3IN-550LM-9-5CP-SV-TD (4000K data)

Luminaire Data

IES File Name	53840101_40K.IES
CCT & CRI	4000K, 90CRI minimum
Initial Delivered Lumens	648
Wattage	9.6W
Efficacy	67.5
Beam Angle	50% = 112° 10% = 159°

Photometric values based on tests performed in compliance with LM-63 & LM-79.

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	180	27.7%
0-40	294	45.4%
0-60	520	80.3%
0-90	648	100.0%
0-180	n/a	n/a

Candlepower

Angle	0°	90°
0	230	230
5	230	230
10	227	227
15	223	222
20	216	215
25	207	207
30	196	197
35	184	184
40	170	170
45	154	155
50	138	139
55	120	120
60	101	101
65	80	81
70	59	59
75	38	38
80	18	18
85	6	5
90	0	0

Coefficients of Utilization

		Effective Floor Cavity Reflectance 20%															
		80%				70%				50%				30%			
rc	rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
RCR																	
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102
1		109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88
2		99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76
3		91	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66
4		83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57
5		76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51
6		70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45
7		65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40
8		61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37
9		57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33
10		53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31

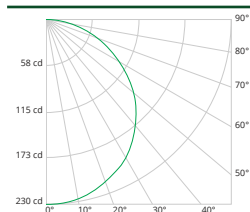
DLLP-3IN-550LM-9-5CP-SV-TD (5000K data)

Luminaire Data

IES File Name	53840101_50K.IES
CCT & CRI	5000K, 90CRI minimum
Initial Delivered Lumens	647
Wattage	9.6W
Efficacy	67.4
Beam Angle	50% = 112° 10% = 159°

Photometric values based on tests performed in compliance with LM-63 & LM-79.

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	179	27.7%
0-40	294	45.4%
0-60	519	80.3%
0-90	647	100.0%
0-180	n/a	n/a

Candlepower

Angle	0°	90°
0	230	230
5	230	229
10	227	226
15	222	222
20	216	215
25	206	206
30	196	196
35	183	184
40	169	170
45	154	155
50	137	139
55	120	120
60	100	101
65	79	81
70	59	59
75	38	38
80	18	18
85	6	5
90	0	0

Coefficients of Utilization

		Effective Floor Cavity Reflectance 20%															
		80%				70%				50%				30%			
rc	rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
RCR																	
0		119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102
1		109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88
2		99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76
3		90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66
4		83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57
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6		70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45
7		65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40
8		61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37
9		57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33
10		53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31

DLLP-3IN

3" LowPro Canless Direct Mount Downlight

5-CCT ColorPreference® | 1.1" Ultra-low Profile | JA8 | ENERGY STAR® | 5-yr Warranty

PRODUCT SPECIFICATIONS

Construction

Die-cast aluminum housing design for maximum thermal management and performance for use in both IC and non-IC applications. High impact, diffuse polymer lens provides direct view shielding of LED array providing zero pixelation and overall visual comfort.

Optics

Uniform illumination is achieved by the coupling of the LED platform with a high impact polymer diffusing lens. The optical system creates an extremely uniform wide distribution with optimized fixture to fixture spacing. Diffusing lens provides a uniform and soft visual appearance when in direct view with no LED pixelation and provides excellent visual comfort.

Electrical

Remote 120V 60HZ constant current driver engineered to provide noise free operation. Continuous flicker-free dimming from 100% to as low as 10% with select TRIAC dimmers (recommended using dimmers with low end trim adjustment). Always consult dimmer manufacturer for proper use, installation and compatibility (some dimmers may require a neutral in the wall box). 70.8% lumen maintenance at 54,000 hours (L71/54,000) per IES TM-21.

Mounting & Installation

Two low-profile spring retention clips are designed to retain the downlight in drywall or drop ceiling applications without the need of a separate recessed housing or junction box for installation. Can be easily installed and serviced from below the mounting/ceiling surface. Minimum 2" plenum space required for the remote driver box installation. Installer must ensure fitment compatibility in any application and overall compliance to all applicable local and national building and electrical codes.

Compliance & Certification

All luminaires are built to UL1598 standards with appropriate UL/cUL labels. Suitable for wet location use. Adheres to LM63, LM79, LM80 and TM21 industry standards for fixture performance and lumen maintenance calculations. ENERGY STAR® listed product. Always refer to ENERGY STAR® database for current listings. Product can be used to comply with California Title 24 High Efficacy requirements. Product certified to California Appliance Efficiency Database under JA8. Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements.

(Search '538401##' on the ENERGY STAR® or CEC JA8 Database to view certifications.)

ColorPreference® Field Selectable CCT

Patented ColorPreference® field selectable color temperature system and driver helps to provide added design flexibility and simplified SKU reduction and reduced complexity. An integrated switch on the remote driver box toggles between 2700K, 3000K, 3500K, 4000K and 5000K. (set to 2700K standard from the factory).

Warranty

The DLLP series of luminaires ships with ETi SSL's 5-year standard warranty. (Terms & Conditions apply).

Load Information

Power Factor	> 0.90
THD	n/a
Frequency	60 Hz
Sound Rating	< 20 Dba
Low Temp Start	-25° C (-18.4° F)
Max Temp	40° C (104° F)
Unit Weight	0.8 lbs

Shipping Information

Size	Unit Weight ¹	Pallet ² (49"l x 41"w x 52"h)
3"	1.0 lbs	648 units per

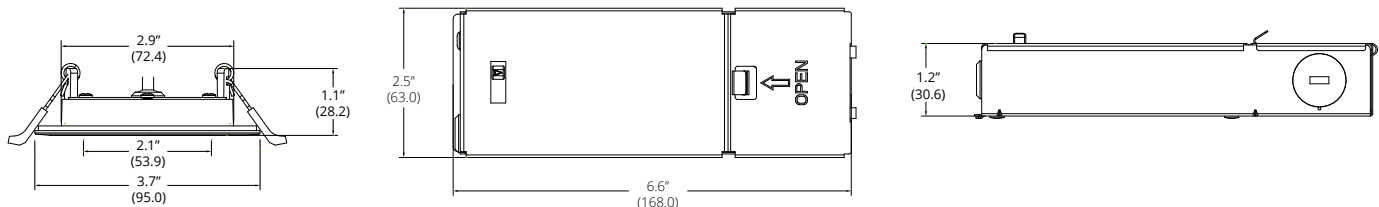
1. Case pack weighs 19.8 lbs (24 units/case pack).

2. There are 27 case packs per pallet.

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (54,000 hours)
25° C (77° F)	> 70.81%

KEY DIMENSIONAL INFORMATION



ADDITIONAL DIMENSIONAL DETAILS

Luminous Window: 2.1" dia. (53.9) Ceiling Opening: 3.125" dia. (79.4) Outer Trim: 3.7" dia. (95.0)

Profile Height: 1.1" (28.2)

Note: All dimensions are in inches (millimeters). Max ceiling opening not to exceed 3.5" (88.9)

PROJECT NOTES: