

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



DLLP-4IN

4" 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)
- 4" round delivers a minimum 734 lumens @ 10.2W, 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
- 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-4IN-650LM-9-5CP-SV-TD	53808103	4"	734	10.2	72.0	2700K (factory)	90 (min)	120	TRIAC	Yes
			777		76.2	3000K				
			835		81.9	3500K				
			858		84.1	4000K				
			860		84.3	5000K				

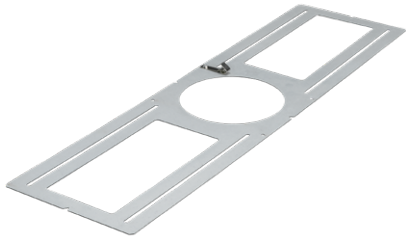
Notes:

1. Installing contractor responsible for ensuring desired CCT is selected during installation.
2. See next page for available stock accessories.
3. Search '538081##' on the ENERGY STAR® or CEC JA8 Database to view certifications.

DLLP-4IN

4" 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)



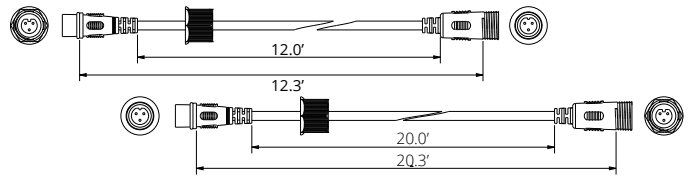
Rough-in Guide Plate (new construction)

Catalog Logic/PT#	Model #
LPGP-4IN	70307101



Emergency LED Driver/BBU (field installed)

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



IP65 Extension Cables (low voltage)

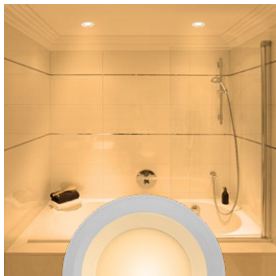
Catalog Logic/PT#	Model #
LP-12FT-EXTENCORD-IP65	906007760
LP-20FT-EXTENCORD-IP65	906007770



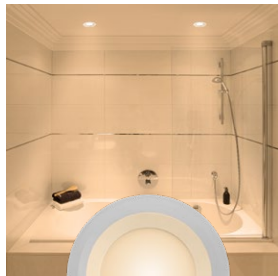
Designer Color Trim Rings

Catalog Logic/PT#	Model #	Finish
DLLP-4IN-TRIM-BZ	90600735	Oil Rubbed Bronze
DLLP-4IN-TRIM-B	90600747	Black
DLLP-4IN-TRIM-BN	90600746	Brushed Nickel

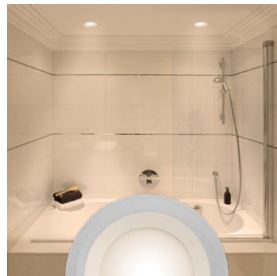
5-CCT ColorPreference® (field selectable)



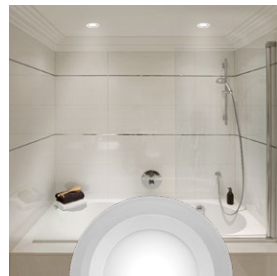
2700K



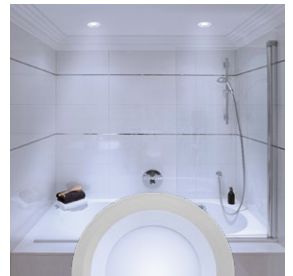
3000K



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-4IN

4" LowPro Canless Direct Mount Downlight

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

PHOTOMETRIC DETAILS

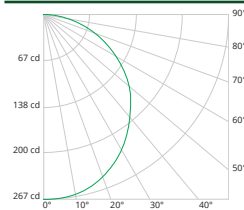
DLLP-4IN-650LM-9-5CP-SV-TD (2700K data)

Luminaire Data

IES File Name	53808103_27K.IES
CCT & CRI	2700K, 90CRI minimum
Initial Delivered Lumens	734
Wattage	10.2W
Efficacy	72.0
Beam Angle	50% = 110° 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	205	28.0%
0-40	334	45.6%
0-60	585	79.8%
0-90	734	100.0%
0-180	n/a	n/a

Candlepower

Angle	0°	90°
0	267	267
5	266	265
10	262	261
15	255	255
20	246	246
25	235	234
30	222	221
35	206	207
40	189	190
45	171	171
50	152	153
55	132	133
60	112	111
65	90	90
70	68	69
75	45	46
80	23	24
85	6	7
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	96	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	65	88	78	71	65	75	69	64	73	67	62	70	65
4		83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57
5		76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50
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	33	44	37	32	43	37
9		57	43	35	30	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

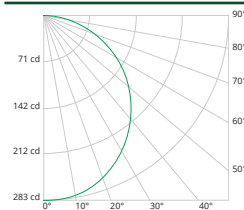
DLLP-4IN-650LM-9-5CP-SV-TD (3000K data)

Luminaire Data

IES File Name	53808103_30K.IES
CCT & CRI	3000K, 90CRI minimum
Initial Delivered Lumens	777
Wattage	10.2W
Efficacy	77.7
Beam Angle	50% = 110° 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	217	28.0%
0-40	354	45.6%
0-60	620	79.8%
0-90	777	100.0%
0-180	n/a	n/a

Candlepower

Angle	0°	90°
0	283	283
5	281	282
10	278	277
15	270	270
20	260	261
25	249	248
30	235	234
35	218	219
40	201	201
45	181	182
50	161	162
55	140	141
60	119	118
65	96	96
70	72	73
75	48	48
80	25	25
85	7	7
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	96	106	102	98	95	98	95	92	94	91	89	90	88
2		99	91	84	79	96	89	83	78	86	80	76	82	78	74	79	76
3		90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65
4		83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57
5		76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50
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	33	44	37	32	43	37
9		57	43	35	30	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

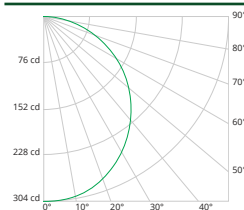
DLLP-4IN-650LM-9-5CP-SV-TD (3500K data)

Luminaire Data

IES File Name	53808103_35K.IES
CCT & CRI	3500K, 90CRI minimum
Initial Delivered Lumens	835
Wattage	10.2W
Efficacy	81.9
Beam Angle	50% = 110° 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	234	28.0%
0-40	380	45.6%
0-60	666	79.8%
0-90	835	100.0%
0-180	n/a	n/a

Candlepower

Angle	0°	90°
0	304	304
5	302	302
10	298	297
15	290	290
20	280	280
25	267	267
30	252	252
35	234	235
40	216	216
45	195	195
50	173	174
55	151	152
60	128	127
65	103	103
70	78	78
75	52	52
80	27	27
85	7	8
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	96	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	65	88	78	71	65	75	69	64	73	67	62	70	65
4		83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57
5		76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50
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	33	44	37	32	43	37
9		57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33
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PHOTOMETRIC DETAILS (cont'd)

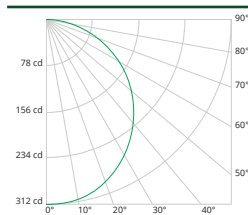
DLLP-4IN-650LM-9-5CP-SV-TD (4000K data)

Luminaire Data

IES File Name	53808103_40K.IES
CCT & CRI	4000K, 90CRI minimum
Initial Delivered Lumens	858
Wattage	10.2W
Efficacy	84.1
Beam Angle	50° = 110° 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	240	28.0%
0-40	391	45.6%
0-60	685	79.8%
0-90	858	100.0%
0-180	n/a	n/a

Candlepower

Angle	0°	90°
0	312	312
5	311	310
10	307	306
15	298	298
20	287	288
25	275	274
30	259	259
35	241	242
40	222	222
45	201	201
50	178	179
55	155	156
60	131	130
65	106	106
70	80	80
75	53	53
80	28	28
85	7	8
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	96	106	102	98	95	98	95	92	94	91	89	90	88
2		99	91	84	79	96	89	83	78	86	80	76	82	78	74	79	76
3		90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65
4		83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57
5		76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50
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	30	55	43	35	29	42	34	29	40	34	29	39	33
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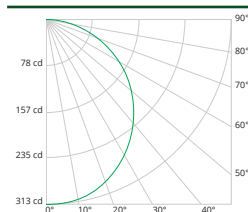
DLLP-4IN-650LM-9-5CP-SV-TD (5000K data)

Luminaire Data

IES File Name	53808103_50K.IES
CCT & CRI	5000K, 90CRI minimum
Initial Delivered Lumens	860
Wattage	10.2W
Efficacy	84.3
Beam Angle	50° = 110° 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	240	28.0%
0-40	391	45.6%
0-60	686	79.8%
0-90	860	100.0%
0-180	n/a	n/a

Candlepower

Angle	0°	90°
0	313	313
5	311	311
10	307	306
15	299	299
20	288	289
25	275	275
30	260	259
35	241	242
40	222	223
45	201	201
50	178	179
55	155	156
60	131	131
65	106	106
70	80	80
75	53	53
80	28	28
85	7	8
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	96	106	102	98	95	98	95	92	94	91	89	90	88
2		99	91	84	79	96	89	83	78	86	80	76	82	78	74	79	76
3		90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65
4		83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57
5		76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50
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	30	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-4IN

4" 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 '538081##' 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	1.0 lbs

Shipping Information

Size	Unit Weight ¹	Pallet ² (48"l x 40"w x 52"h)
4"	1.2 lbs	540 units per

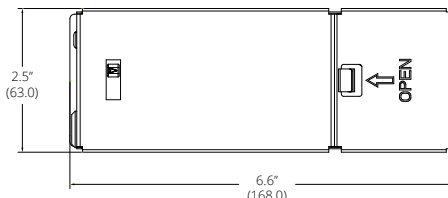
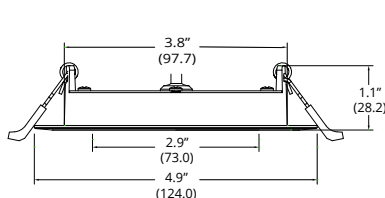
1. Case pack weighs 24.8 lbs (20 units/case pack).

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: 2.9" dia. (73.0) Ceiling Opening: 4.25" dia. (108.7) Outer Trim: 4.9" dia. (124.0)

Profile Height: 1.1" (28.2)

Note: All dimensions are in inches (millimeters). Max ceiling opening not to exceed 4.75" (120.7)

PROJECT NOTES: