

DATE:	PROJECT:
TYPE:	NOTES:
CATALOG #:	

DLLP-NL Series
LowPro Recessed Downlight
with Color Preference® and Night Light
 561 - 1,857 Lumens | 9.06 - 22.7W | 5 CCT

FEATURES & SPECIFICATIONS

Overview

ETi SSL's LowPro Recessed Downlight with Color Preference® and Nightlight is one of the most versatile and easiest ways to upgrade your existing recessed lights to energy-efficient LEDs. This innovative fixture offers three unique features: First, there is no need for recessed cans or a separate J-box, so its ultra slim design easily installs into low clearance or sloped ceilings. Second, you can choose between (5) color temperatures of light output for your space from warm to cool whites, bright white, and daylight. Third, the Nightlight produces a soft, amber hue when activated from your wall switch. The fixture is dimmable, down to 10% without any flickering or buzzing and is suitable for any wet locations. It is maintenance-free with no need to replace bulbs, and is IC Rated for direct contact with insulation.

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).

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. Always refer to ENERGY STAR® database for current listings by searching the first 6-digits of the model # followed by '##' on the ENERGY STAR® website database and the CEC JA8 Database...(Ex. '538291##').

[Search ENERGY STAR® listing here.](#)
[Search CEC JA8 certification here.](#)

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-NL series of luminaires ships with ETi SSL's 5-year standard warranty. Complete warranty terms at: www.etissl.com/warranty/



DLLP-NL Series

LowPro Recessed Downlight with Color Preference® and Night Light
561-1857 Lumens | 9.06-22.7W | 5 CCT | ENERGY STAR® | 5-yr Warranty

ORDERING INFORMATION^{1,2,3}

Example: DLLP-NL-6IN-900LM-9-5CP-SV-TD

DLLP-NL			9	5CP	SV	TD
Series	Size	Nominal Lumens ⁴	CRI	CCT ⁵	Voltage	Dimming
DLLP-NL LowPro Downlight w/ Night Light	3IN 3" Dia	550LM	9 90(min)	5CP 2700K	SV Single Volt 120V	TD TRIAC Dimming
	4IN 4" Dia	650LM		3000K		
	6IN 6" Dia	900LM		3500K		
	8IN 8" Dia	1800LM		4000K		
				5000K		

Notes:

- This product is not configurable, only designated 'Stock' SKUs are available.
- See "Performance and Operational Data By Catalog Number" for all available SKUs.
- Stock SKUs typically ship in 24-48 hours upon receipt of an approved released order.
- Nominal Lumens are not configurable, only designated to corresponding 3IN-8IN size.
- Factory set at 2700K.

AVAILABLE STOCK ACCESSORIES (must be ordered separately, field installed)

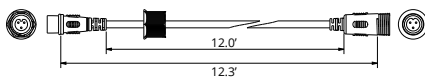
Catalog Logic/PT#	Model#	Description
LPGP-3IN	70306101	3in Rough-in Guide Plate (new construction)
LPGP-4IN	70307101	4in Rough-in Guide Plate (new construction)
LPGP-6IN	70313101	6in Rough-in Guide Plate (new construction)
DLLP-3IN-G2-TRIM-B	906007970	3in Black Trim
DLLP-3IN-G2-TRIM-BZ	906007960	3in Oil Rubbed Bronze Trim
DLLP-3IN-G2-TRIM-BN	906007980	3in Brushed Nickel Trim
DLLP-4IN-TRIM-B	90600747	4in Black Trim
DLLP-4IN-TRIM-BZ	90600735	4in Oil Rubbed Bronze Trim
DLLP-4IN-TRIM-BN	90600746	4in Brushed Nickel Trim
DLLP-6IN-TRIM-B	90600749	6in Black Trim
DLLP-6IN-TRIM-BZ	90600736	6in Oil Rubbed Bronze Trim
DLLP-6IN-TRIM-BN	90600748	6in Brushed Nickel Trim
LP-12FT-EXTENCORD-IP65	906007760	12ft IP65 Extension Cable (low voltage)
LP-20FT-EXTENCORD-IP65	906007770	20ft IP65 Extension Cable (low voltage)
EMA25FY-170 ¹ (G2)	70112202	Square Emergency LED Driver/BBU 25W, IP rated, 90 min, no dimming, Certified in CA Title 20 MAEDBS not compatible with model # 53828103 - 6in fixture
EMA25FY-170 ¹ (G3)	70112202-2	Square Emergency LED Driver/BBU 25W, IP rated, 90 min, with dimming, Certified in CA Title 20 MAEDBS not compatible with model # 53828103 - 6in fixture

Notes:

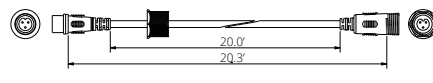
- BBUs certified in CA Title 20 MAEDBS. (search by BBU cat logic/PT #, Ex. 'EMA40FY-170')



EMA25FY-170



LP-12FT-EXTENCORD-IP65



LP-20FT-EXTENCORD-IP65



LPGP-6IN



LPGP-4IN



LPGP-3IN



DLLP-3IN-G2-TRIM-B
DLLP-3IN-G2-TRIM-BZ
DLLP-3IN-G2-TRIM-BN



DLLP-4IN-TRIM-B
DLLP-4IN-TRIM-BZ
DLLP-4IN-TRIM-BN



DLLP-6IN-TRIM-B
DLLP-6IN-TRIM-BZ
DLLP-6IN-TRIM-BN

DLLP-NL Series

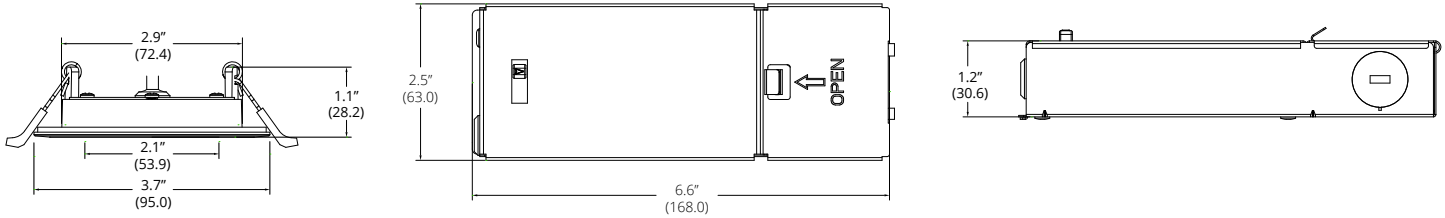
LowPro Recessed Downlight with Color Preference® and Night Light
 561-1857 Lumens | 9.06-22.7W | 5 CCT | ENERGY STAR® | 5-yr Warranty

DIMENSIONS

Note: All dimensions are in inches (millimeters).

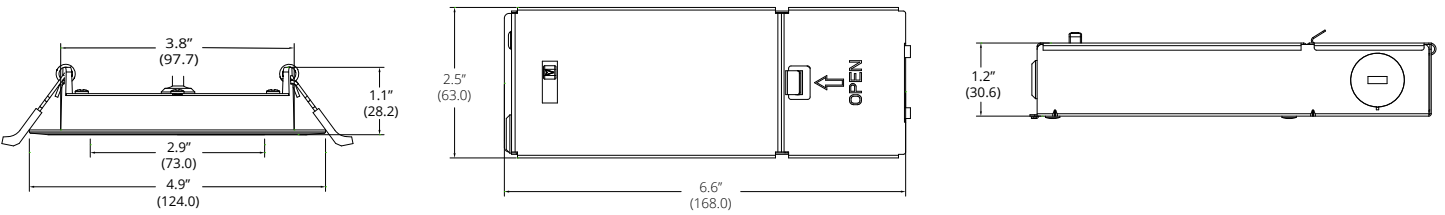
Model #: 53826102

Cat Logic/Part #: DLLP-NL-3IN-550LM-9-5CP-SV-TD



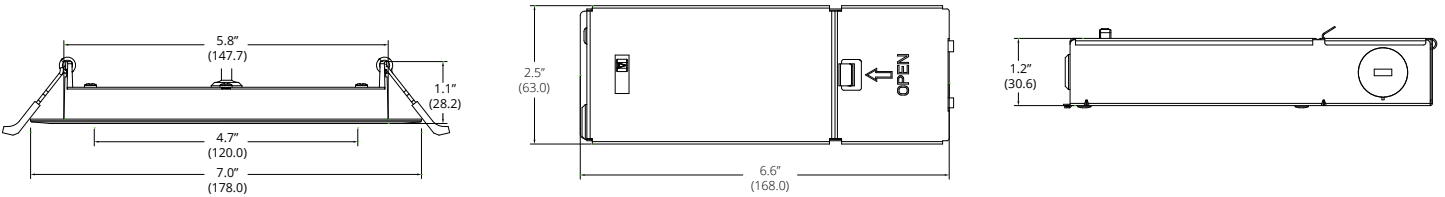
Model #: 53827103

Cat Logic/Part #: DLLP-NL-4IN-650LM-9-5CP-SV-TD



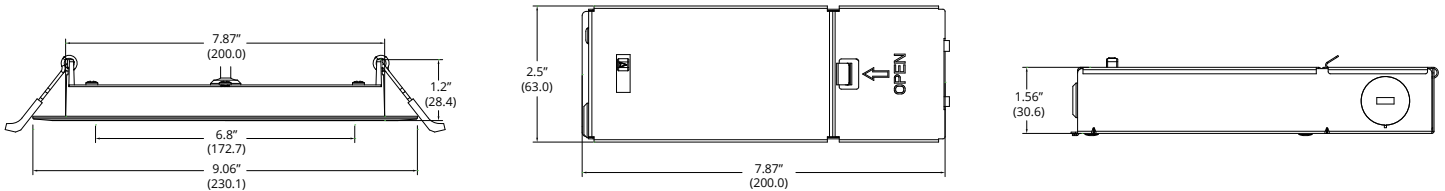
Model #: 53828103

Cat Logic/Part #: DLLP-NL-6IN-900LM-9-5CP-SV-TD



Model #: 53829102

Cat Logic/Part #: DLLP-NL-8IN-1800LM-9-5CP-SV-TD



DLLP-NL Series

LowPro Recessed Downlight with Color Preference® and Night Light
561-1857 Lumens | 9.06-22.7W | 5 CCT | ENERGY STAR® | 5-yr Warranty

Performance and Operational Data By Catalog Number

Catalog Logic/PT# ¹	Model #	Size	Delivered Lumens ²	Wattage	LPW	CCT ^{3,4}	CRI	Voltage	Dimming	ENERGY STAR ⁵
DLLP-NL-3IN-550LM-9-5CP-SV-TD	53826102	3" Dia	561	9.06	61.9	5 CCT	90 (min)	120V	TRIAC	Yes
DLLP-NL-4IN-650LM-9-5CP-SV-TD	53827103	4" Dia	649	9.64	67.3	5 CCT				
DLLP-NL-6IN-900LM-9-5CP-SV-TD	53828103	6" Dia	895	14.3	62.5	5 CCT				
DLLP-NL-8IN-1800LM-9-5CP-SV-TD	53829102	8" Dia	1,857	22.7	81.8	5 CCT				

Notes:

1. Stock SKUs typically ship in 24-48 hours upon receipt of an approved released order.
2. Photometric values bases on tests performed at 2700K.
3. 5 CCT offers five Color Preference® options: 2700K, 3000K, 3500K, 4000K & 5000K.
4. Installing contractor responsible for ensuring desired CCT is selected during installation. Factory CCT setting is 2700K.
5. Search first 6-digits of the model # followed by '###' on the ENERGY STAR® website database... (Ex. '565781###') to view certifications.

Load Information

Power Factor	> 0.90
THD	< 20%
Frequency	50/60 Hz
Sound Rating	< 20 DbA
Low Temp Start	-25° C (-13° F)
Max Temp	40° C (104° F)
Unit Weight 3"	0.88 lbs
Unit Weight 4"	1.07 lbs
Unit Weight 6"	1.47 lbs
Unit Weight 8"	2.20 lbs

Shipping Information

Catalog Logic/PT#	Model #	UPC	Size	Unit Weight	Pallet
DLLP-NL-3IN-550LM-9-5CP-SV-TD	53826102	849489066905	3" Dia	1.10 lbs	TBD
DLLP-NL-4IN-650LM-9-5CP-SV-TD	53827103	849489066608	4" Dia	1.30 lbs	TBD
DLLP-NL-6IN-900LM-9-5CP-SV-TD	53828103	849489066615	6" Dia	2.05 lbs	TBD
DLLP-NL-8IN-1800LM-9-5CP-SV-TD	53829102	849489066622	8" Dia	2.54 lbs	TBD

Lumen Maintenance

DLLP-NL-3IN-530LM-9-5CP-SV-TD		DLLP-NL-4IN-650LM-9-5CP-SV-TD	
Ambient Temperature	TM-21 Lumen Maintenance (54,000 hours)	Ambient Temperature	TM-21 Lumen Maintenance (54,000 hours)
25° C (77° F)	> 70.81%	25° C (77° F)	> 70.81%

DLLP-NL-6IN-900LM-9-5CP-SV-TD		DLLP-NL-8IN-1800LM-9-5CP-SV-TD	
Ambient Temperature	TM-21 Lumen Maintenance (54,000 hours)	Ambient Temperature	TM-21 Lumen Maintenance (54,000 hours)
25° C (77° F)	> 70.81%	25° C (77° F)	> 70.81%

3-CCT Color Preference® (field selectable)



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

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
- Color Preference® 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)
- 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
- California JA8 certified & can be used to comply with Title 24 requirements
- ENERGY STAR® rated to meet strict efficiency, quality & lifetime criteria

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561-1857 Lumens | 9.06-22.7W | 5 CCT | ENERGY STAR® | 5-yr Warranty

PHOTOMETRIC DETAILS

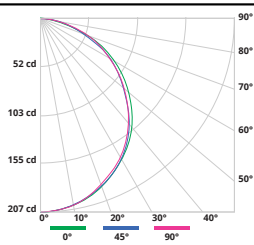
DLLP-NL-3IN-550LM-9-5CP-SV-TD (2700K data)

Luminaire Data

IES File Name	53826102_27K.IES	
CCT & CRI	5 CCT, 90CRI minimum	
Initial Delivered Lumens	561	
Wattage	9.06W	
Efficacy	62	
Beam Angle	50% = 110.5°	10% = 158.0°
Spacing	0° = 1.26	90° = 1.24

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	157.6	28.1%
0-40	257.3	45.9%
0-60	452.3	80.6%
0-90	560.9	100.0%
0-180	561.0	100.0%

Candlepower

Angle	0°	90°
0	204	204
5	203	203
10	200	199
15	196	194
20	190	187
25	181	178
30	172	168
35	162	157
40	149	144
45	135	130
50	121	119
55	105	101
60	89	85
65	72	68
70	53	50
75	34	32
80	16	15
85	1.9	1.2
90	0.004	0.023

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																											
	80%				70%				50%				30%				10%				0%							
rw	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10
RCR																												
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	100	100	100	100	100	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85	87	85	85	85	85	85	85	85	85	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71	73	71	71	71	71	71	71	71	71	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60	62	60	60	60	60	60	60	60	60	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	53	51	51	51	51	51	51	51	51	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44	46	44	44	44	44	44	44	44	44	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	41	39	39	39	39	39	39	39	39	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34	36	34	34	34	34	34	34	34	34	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	32	30	30	30	30	30	30	30	30	30
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27	29	27	27	27	27	27	27	27	27	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25	27	25	25	25	25	25	25	25	25	25

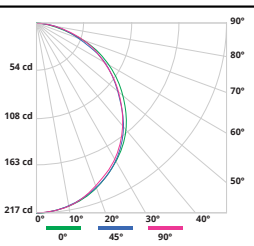
DLLP-NL-3IN-550LM-9-5CP-SV-TD (3000K data)

Luminaire Data

IES File Name	53826102_30K.IES	
CCT & CRI	5 CCT, 90CRI minimum	
Initial Delivered Lumens	596	
Wattage	8.85W	
Efficacy	67	
Beam Angle	50% = 110.7°	10% = 158.0°
Spacing	0° = 1.26	90° = 1.24

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	167.3	28.1%
0-40	273.2	45.9%
0-60	480.3	80.6%
0-90	595.6	100.0%
0-180	595.8	100.0%

Candlepower

Angle	0°	90°
0	216	216
5	216	215
10	213	211
15	208	206
20	202	198
25	193	189
30	183	179
35	172	167
40	158	153
45	144	139
50	128	123
55	112	107
60	95	90
65	76	72
70	56	53
75	36	34
80	17	16
85	1.9	1.3
90	0.002	0.025

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																											
	80%				70%				50%				30%				10%				0%							
rw	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10
RCR																												
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	100	100	100	100	100	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85	87	85	85	85	85	85	85	85	85	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71	73	71	71	71	71	71	71	71	71	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60	62	60	60	60	60	60	60	60	60	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	53	51	51	51	51	51	51	51	51	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44	46	44	44	44	44	44	44	44	44	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	41	39	39	39	39	39	39	39	39	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34	36	34	34	34	34	34	34	34	34	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	32	30	30	30	30	30	30	30	30	30
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27	29	27	27	27	27	27	27	27	27	27
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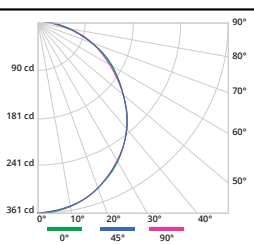
DLLP-NL-3IN-550LM-9-5CP-SV-TD (3500K data)

Luminaire Data

IES File Name	53826102_35K.IES	
CCT & CRI	5 CCT, 90CRI minimum	
Initial Delivered Lumens	657	
Wattage	8.82W	
Efficacy	74	
Beam Angle	50% = 110.6°	10% = 158.0°
Spacing	0° = 1.26	90° = 1.24

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	184.4	28.1%
0-40	301.1	45.9%
0-60	529.4	80.6%
0-90	656.5	100.0%
0-180	656.7	100.0%

Candlepower

Angle	0°	90°
0	238	238
5	238	237
10	235	233
15	230	227
20	223	219
25	213	209
30	202	197
35	189	184
40	175	169
45	159	153
50	142	136
55	124	118
60	105	100
65	84	80
70	63	59
75	40	38
80	19	18
85	3.2	1.5
90	0.004	0.028

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																											
	80%				70%				50%				30%				10%				0%							
rw	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10
RCR																												
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	100	100	100	100	100	100	100	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85	87	85	85	85	85	85	85	85	85	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71	73	71	71	71	71	71	71	71	71	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60	62	60	60	60	60	60	60	60	60	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	53	51	51	51	51	51	51	51	51	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44	46	44	44	44	44	44	44	44	44	44
6	70	57	48	42	69	56	48	42	54																			

DLLP-NL Series

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561-1857 Lumens | 9.06-22.7W | 5 CCT | ENERGY STAR® | 5-yr Warranty

PHOTOMETRIC DETAILS CONTINUED

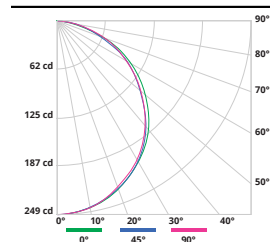
DLLP-NL-3IN-550LM-9-5CP-SV-TD (4000K data)

Luminaire Data

IES File Name	53826102_40K.IES
CCT & CRI	5 CCT, 90CRI minimum
Initial Delivered Lumens	684
Wattage	8.92W
Efficacy	77
Beam Angle	50% = 110.7° 10% = 158.1°
Spacing	0° = 1.26 90° = 1.24

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	192.1	28.1%
0-40	313.6	45.8%
0-60	551.5	80.6%
0-90	683.9	100.0%
0-180	684.1	100.0%

Candlepower

Angle	0°	90°
0	248	248
5	248	247
10	245	243
15	240	237
20	232	228
25	222	218
30	211	205
35	197	192
40	182	176
45	166	160
50	148	142
55	129	123
60	109	104
65	88	83
70	65	62
75	42	40
80	20	19
85	3.3	1.7
90	0.003	0.03

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																					
	80%				70%				50%				30%				10%		0%			
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85				
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71				
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60				
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51				
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44				
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27				
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				

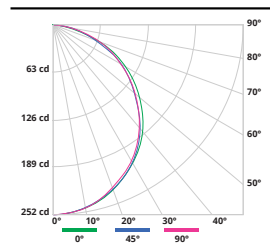
DLLP-NL-3IN-550LM-9-5CP-SV-TD (5000K data)

Luminaire Data

IES File Name	53826102_50K.IES
CCT & CRI	5 CCT, 90CRI minimum
Initial Delivered Lumens	692
Wattage	9.05W
Efficacy	76
Beam Angle	50% = 110.9° 10% = 158.1°
Spacing	0° = 1.26 90° = 1.24

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	194.3	28.1%
0-40	317.2	45.8%
0-60	557.8	80.6%
0-90	691.8	100.0%
0-180	691.9	100.0%

Candlepower

Angle	0°	90°
0	251	251
5	251	250
10	248	246
15	243	239
20	235	231
25	225	220
30	214	208
35	200	194
40	185	179
45	168	162
50	150	144
55	131	125
60	111	105
65	90	85
70	67	63
75	43	40
80	21	19
85	3.6	1.8
90	0.01	0.03

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																					
	80%				70%				50%				30%				10%		0%			
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85				
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71				
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60				
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51				
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44				
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27				
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				

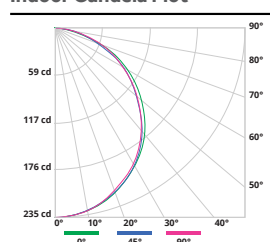
DLLP-NL-4IN-650LM-9-5CP-SV-TD (2700K data)

Luminaire Data

IES File Name	53827103_27K.IES
CCT & CRI	5 CCT, 90CRI minimum
Initial Delivered Lumens	649
Wattage	9.64W
Efficacy	67
Beam Angle	50% = 110.6° 10% = 159.9°
Spacing	0° = 1.26 90° = 1.26

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	180.7	27.8%
0-40	294.7	45.4%
0-60	517.8	79.7%
0-90	649.3	100.0%
0-180	649.3	100.0%

Candlepower

Angle	0°	90°
0	234	234
5	233	233
10	230	229
15	225	224
20	218	216
25	208	206
30	197	195
35	184	182
40	170	168
45	154	153
50	137	136
55	120	119
60	101	100
65	82	82
70	63	63
75	42	43
80	22	23
85	5.3	8.9
90	0.0	0.03

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																					
	80%				70%				50%				30%				10%		0%			
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84				
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70				
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59				
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51				
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44				
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38				
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34				
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30				
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27				
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25				

DLLP-NL Series

LowPro Recessed Downlight with Color Preference® and Night Light
561-1857 Lumens | 9.06-22.7W | 5 CCT | ENERGY STAR® | 5-yr Warranty

PHOTOMETRIC DETAILS CONTINUED

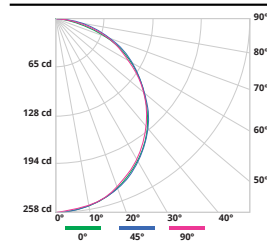
DLLP-NL-4IN-650LM-9-5CP-SV-TD (5000K data)

Luminaire Data

IES File Name	53827103_50K.IES
CCT & CRI	5 CCT, 90CRI minimum
Initial Delivered Lumens	715
Wattage	9.83W
Efficacy	73
Beam Angle	50% = 110.6° 10% = 159.9°
Spacing	0° = 1.26 90° = 1.26

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	198.8	27.8%
0-40	324.3	45.4%
0-60	570.0	79.7%
0-90	715.0	100.0%
0-180	715.1	100.0%

Candlepower

Angle	0°	90°
0	257	257
5	257	256
10	254	252
15	248	246
20	240	237
25	229	227
30	217	215
35	203	201
40	187	185
45	170	168
50	152	150
55	132	131
60	112	111
65	91	90
70	69	69
75	47	47
80	25	25
85	6.0	6.4
90	0.0	0.03

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																						
	80%				70%				50%				30%				10%				0%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100		
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	86	84	84	84		
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70	70	70	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59	59	59	59		
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50	50	50	50		
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44	44	44	44		
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38	38	38	38		
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34	34	34	34		
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9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27	27	27	27		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25	25	25		

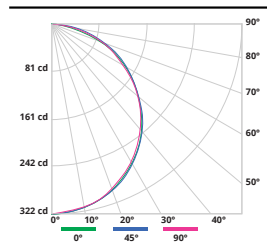
DLLP-NL-6IN-900LM-9-5CP-SV-TD (2700K data)

Luminaire Data

IES File Name	53828103_27K.IES
CCT & CRI	5 CCT, 90CRI minimum
Initial Delivered Lumens	895
Wattage	14.3W
Efficacy	62
Beam Angle	50% = 110.5° 10% = 160.9°
Spacing	0° = 1.24 90° = 1.20

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	247.7	27.7%
0-40	403.9	45.2%
0-60	709.5	79.3%
0-90	894.5	100.0%
0-180	894.5	100.0%

Candlepower

Angle	0°	90°
0	321	321
5	319	317
10	314	300
15	306	300
20	296	288
25	282	273
30	267	256
35	249	237
40	229	217
45	208	194
50	185	171
55	161	146
60	136	121
65	110	95
70	84	70
75	58	44
80	33	20
85	10	0.9
90	0.0	0.02

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																						
	80%				70%				50%				30%				10%				0%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100	100		
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	86	84	84	84		
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70	70	70	70		
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59	59	59	59		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50	50	50	50		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43	43	43	43		
6	70	57	48	41	68	56	47	41	54	46	41	52	46	41	51	45	40	38	38	38	38		
7	65	51	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34	34	34	34		
8	61	47	38	33	59	46	38	32	45	38	32	44	37	32	43	36	32	30	30	30	30		
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27	27	27	27		
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24	24	24	24		

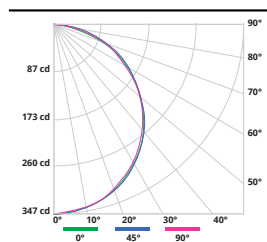
DLLP-NL-6IN-900LM-9-5CP-SV-TD (3000K data)

Luminaire Data

IES File Name	53828103_30K.IES
CCT & CRI	5 CCT, 90CRI minimum
Initial Delivered Lumens	957
Wattage	14.2W
Efficacy	67
Beam Angle	50% = 110.0° 10% = 160.7°
Spacing	0° = 1.26 90° = 1.20

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	265.8	27.8%
0-40	433.5	45.3%
0-60	760.6	79.5%
0-90	957.2	100.0%
0-180	957.3	100.0%

Candlepower

Angle	0°	90°
0	345	345
5	344	341
10	339	334
15	331	323
20	320	310
25	307	295
30	290	276
35	271	256
40	250	234
45	228	211
50	203	186
55	177	160
60	150	133
65	122	105
70	93	78
75	65	51
80	37	24
85	11	2.9
90	0.0	0.0

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																						
	80%				70%				50%				30%				10%				0%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR	0	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	100	100		
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	86	84	84	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70	70	70	70		
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59	59	59	59		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50	50	50	50		
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	44	44	44	44		
6	70	57	48	41	68	56	47	41	54	47	41	52	46	41	51	45	40	38	38	38	38		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34	34	34	34		
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30	30	30	30		
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27	27	27	27		
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26	24	24	24	24		

DLLP-NL Series

LowPro Recessed Downlight with Color Preference® and Night Light
561-1857 Lumens | 9.06-22.7W | 5 CCT | ENERGY STAR® | 5-yr Warranty

PHOTOMETRIC DETAILS CONTINUED

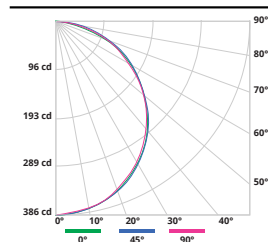
DLLP-NL-6IN-900LM-9-5CP-SV-TD (3500K data)

Luminaire Data

IES File Name	53828103_35K.IES
CCT & CRI	5 CCT, 90CRI minimum
Initial Delivered Lumens	1,067
Wattage	13.9W
Efficacy	76
Beam Angle	50% = 110.2° 10% = 160.7°
Spacing	0° = 1.26 90° = 1.20

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	296.1	27.8%
0-40	482.9	45.3%
0-60	847.5	79.4%
0-90	1067.0	100.0%
0-180	1067.1	100.0%

Candlepower

Angle	0°	90°
0	384	384
5	383	379
10	378	371
15	370	359
20	358	344
25	343	327
30	324	306
35	303	283
40	280	259
45	254	232
50	227	204
55	198	175
60	168	145
65	136	115
70	105	84
75	73	54
80	41	25
85	13	1.9
90	0.0	0.0

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																		
	80%				70%				50%				30%		10%		0%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84	
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70	
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59	
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50	
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	44	
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38	
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34	
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30	
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27	
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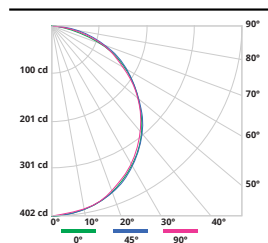
DLLP-NL-6IN-900LM-9-5CP-SV-TD (4000K data)

Luminaire Data

IES File Name	53828103_40K.IES
CCT & CRI	5 CCT, 90CRI minimum
Initial Delivered Lumens	1,112
Wattage	14.3W
Efficacy	78
Beam Angle	50% = 110.1° 10% = 160.7°
Spacing	0° = 1.26 90° = 1.20

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	308.4	27.8%
0-40	503.0	45.3%
0-60	882.7	79.4%
0-90	1111.4	100.0%
0-180	1111.5	100.0%

Candlepower

Angle	0°	90°
0	400	400
5	399	395
10	394	386
15	385	374
20	372	358
25	356	340
30	338	318
35	316	295
40	291	269
45	265	241
50	236	212
55	206	182
60	174	151
65	142	119
70	109	87
75	76	56
80	43	25
85	14	1.7
90	0.0	0.0

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																		
	80%				70%				50%				30%		10%		0%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84	
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70	
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59	
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50	
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7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34	
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30	
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27	
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24	

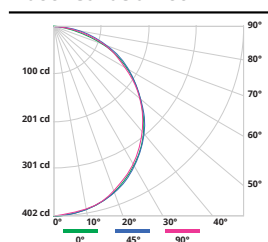
DLLP-NL-6IN-900LM-9-5CP-SV-TD (5000K data)

Luminaire Data

IES File Name	53828103_50K.IES
CCT & CRI	5 CCT, 90CRI minimum
Initial Delivered Lumens	1,112
Wattage	14.5W
Efficacy	76
Beam Angle	50% = 110.1° 10% = 160.8°
Spacing	0° = 1.26 90° = 1.20

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	308.4	27.7%
0-40	502.9	45.2%
0-60	882.7	79.4%
0-90	1111.5	100.0%
0-180	1111.6	100.0%

Candlepower

Angle	0°	90°
0	400	400
5	399	395
10	393	386
15	385	374
20	372	359
25	356	340
30	337	319
35	315	294
40	291	269
45	265	241
50	236	212
55	206	182
60	174	150
65	142	119
70	109	87
75	76	55
80	43	25
85	14	1.6
90	0.0	0.0

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																		
	80%				70%				50%				30%		10%		0%		
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84	
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70	
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59	
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50	
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	44	
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38	
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34	
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30	
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27	
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24	

DLLP-NL Series

LowPro Recessed Downlight with Color Preference® and Night Light
561-1857 Lumens | 9.06-22.7W | 5 CCT | ENERGY STAR® | 5-yr Warranty

PHOTOMETRIC DETAILS CONTINUED

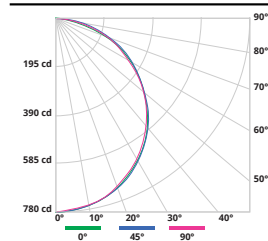
DLLP-NL-8IN-1800LM-9-5-CP-SV-TD (4000K data)

Luminaire Data

IES File Name	53829102_40K.IES
CCT & CRI	5 CCT, 90CRI minimum
Initial Delivered Lumens	2,189
Wattage	22.5W
Efficacy	97
Beam Angle	50% = 111.0° 10% = 161.6°
Spacing	0° = 1.26 90° = 1.22

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	601.6	27.5%
0-40	982.6	44.9%
0-60	1729.6	79.0%
0-90	2188.0	100.0%
0-180	2188.5	100.0%

Candlepower

Angle	0°	90°
0	779	779
5	776	771
10	766	756
15	749	733
20	724	705
25	693	671
30	656	630
35	614	586
40	567	537
45	516	484
50	460	428
55	402	369
60	340	307
65	277	245
70	213	182
75	150	120
80	88	52
85	31	11
90	0.05	0.02

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																	
	80%				70%				50%				30%		10%		0%	
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24

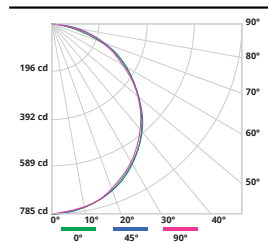
DLLP-NL-8IN-1800LM-9-5-CP-SV-TD (5000K data)

Luminaire Data

IES File Name	53829102_50K.IES
CCT & CRI	5 CCT, 90CRI minimum
Initial Delivered Lumens	2,203
Wattage	23.0W
Efficacy	95
Beam Angle	50% = 111.1° 10% = 161.6°
Spacing	0° = 1.26 90° = 1.22

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

Indoor Candela Plot



Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	605.4	27.5%
0-40	988.8	44.9%
0-60	1740.7	79.0%
0-90	2202.3	100.0%
0-180	2202.8	100.0%

Candlepower

Angle	0°	90°
0	783	783
5	781	775
10	771	760
15	753	739
20	728	710
25	697	675
30	660	635
35	618	590
40	570	540
45	519	487
50	463	431
55	404	371
60	342	310
65	279	247
70	214	184
75	150	122
80	88	57
85	31	10
90	0.0	0.0

Coefficients of Utilization

rc	Effective Floor Cavity Reflectance 20%																	
	80%				70%				50%				30%		10%		0%	
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26	36	30	26	24