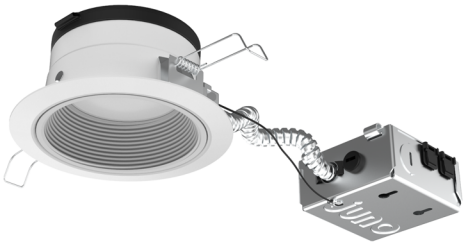
JUNO

Podz™ LED Downlight Series

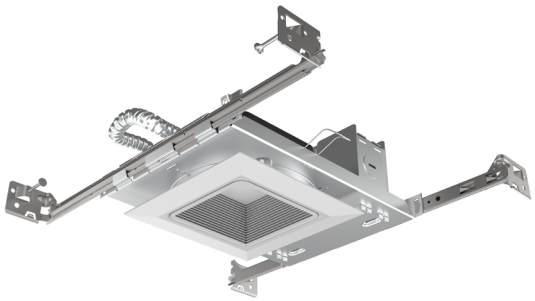
4" Canless Round and Square LED Downlight
New Construction or Remodel

Project:
Fixture Type:
Location:
Contact/Phone:

JPDZ4 Series



Complete remodel fixture shown

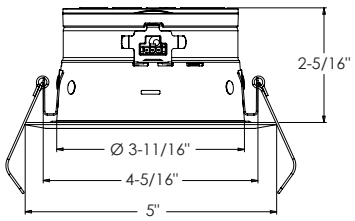


Complete new construction fixture shown

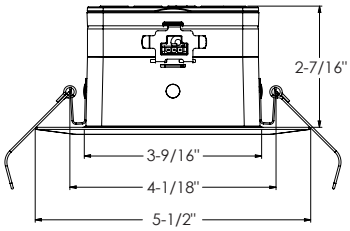
WarmDim®

Dimensions

4" Round



4" Square



Product Features

Canless low profile 4" LED recessed downlight with deeply regressed light source and technology rich features offers performance up to 1200L and installation solutions for both new construction and remodel applications.
Patented color temperature and intensity configurable lighting fixture (US Patent No. 11,259,377 B2)

- Integrated light engine offers switchable LED color temperature and adjustable lumen output directly on module for easy switching
- Advanced color mixing technology provides consistent color rendering on the black body curve at all LED color temperatures while maintaining a high 90+ CRI
- Warmdim™ setting provides performance similar to incandescent light sources and warms the LED color temperature over the dimming range from 2850K to 1900K

Installation flexibility and ease

- Low profile integrated LED downlight less than 3" in height fits virtually anywhere
- Installs directly into the plenum - eliminates need for typical recessed housing
- Installs into new construction or remodel applications
- Square Podz use a **round** ceiling opening (round hole in new construction frame) to make installation simple using common hole saws and guaranteed alignment of square fixtures in a space.

Applications

- Ideal for a breadth of residential and commercial applications
- Shallow plenum installations
- IC rated - for direct contact with insulation
- Wet location listed - for use in shower and outdoor covered ceiling applications

Performance

Switchable Delivered Lumens	700L, 1000L, 1200L
Switchable LED Color Temperature	27K, 30K, 35K, 40K, 50K
WarmDim Included as standard	2850K - 1900K over dimming range
CRI	90+
Voltage	Dedicated 120V or MVOLT (120-277V)
Dimming	Forward/Reverse Phase or 0-10V Dimming range from 100% to 5%

Specifications (please reference page 4 for fixture line art/dimensions)

	Round	Square
Aperture:	3.75" (9.53)	3.56" (9.04)
Ceiling Opening*:	4.5" (11.43)	4.75" (12.07)
Overlap Trim:	5.05" (12.82)	5.5" (13.97)
Height:	2.32" (5.89)	2.44" (6.2)

All dimensions are in Inches (centimeters unless otherwise indicated).
*Both round and square cutouts are round holes and use round opening new construction frames.

Application Flexibility - Remodel

Shape	+	Mounting Style	=	Complete Fixture
Round Module		Remodel		

Application Flexibility - New Construction

Shape	+	Mounting Style	=	Complete Fixture
Square Module		New Construction		

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Podz™ LED Downlight Series

4" Canless Round and Square LED Downlight
New Construction or Remodel

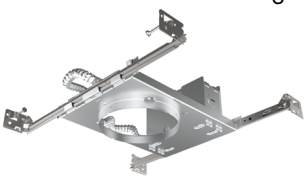
ORDERING INFORMATION

Two ways to order Podz:

1. Ship separate trim module and mounting

Trim Module

Mounting Option



or

Example: JPDZ4 DC ALO10 SWW5WD 90CRI JPDZRMJBX 120 FRPC WWH, **Ships as example:** Trim module: JPDZ4 DC ALO10 SWW5WD 90CRI 120 FRPC WWH M6, Mounting: JPDZRMJBX 120 FRPC M6

Series		Trim Type		Lumens		Color Temperature		CRI	
JPDZ4	Juno Podz 4" LED Downlights	**DB**	Round Downlight Baffle	**ALO10**	Adjustable Lumen Output 700L, 1000L, and 1200L	**SWW5WD**	Switchable White 2700K, 3000K, 3500K, 4000K, 5000K, + WarmDim (2850K-1900K)	**90CRI**	90+CRI
		DC	Round Downlight Cone						
		SQDB	Square Downlight Baffle						
		SQDC	Square Downlight Reflector						

Mounting (Required for complete fixture)		Voltage/Driver		Finish	
REMODEL:		**120 FRPC**	120V Forward/Reverse Phase Cut, 5% dim	**WWH** [1]	White, White Trim Ring
JPDZRMJBX [4]	Juno Podz universal remodel junction box (for 4", 5", 6")	**MVOLT ZT10**	Multi-Volt (120-277), 0-10V, 10% dim	**BWH** [2,5]	Black, White Trim Ring
				CWH [3]	Clear, White Trim Ring
NEW CONSTRUCTION: (please reference page 4 for fixture line art/dimensions)				**HZWH** [3]	Haze, White Trim Ring
JPDZ4RDNCMF	Juno Podz 4IN Round New Construction Mounting Frame			**WHZWH** [3]	Wheat Haze, White Trim Ring
JPDZ4SQNCMF [6]	Juno Podz 4IN Square New Construction Mounting Frame				

NOTES

1. WWH is available with DB, SQDB, DC and SQDC.
2. BWH only available with DB and SQDB.
3. CWH, HZWH and WHZWH only available with DC and SQDC.
4. Not for use in an existing housing.
5. Square black baffle not T24 certified.
6. Square frame has a round hole opening and the ceiling cutout is round.

2. All-in-one box remodel downlight

Series		Trim Type/Voltage		Finish	
JPDZ4JB	Juno Podz 4" Trim and Remodel Junction Box	**RDB1**	Round Downlight Baffle 120V	**WWH**	White, White Trim Ring
		RDC1	Round Downlight Cone 120V		

EMERGENCY OPERATION OPTION	
For use in Non-IC applications where insulation is spaced at least 3" away. If installing from below the ceiling, minimum plenum depths required: IIS 25 = 15 7/8" for JPDZ4 RD and 14 3/4" for JPDZ4 SQ IIS 50 = 20 1/8" for JPDZ4 RD and 18 5/8" for JPDZ4 SQ	
Iota IIS 25 I	25W Emergency Micro-Inverter
Iota IIS 50 I	50W Emergency Micro-Inverter

ACCESSORIES	
Trim inserts are interchangeable and field installable to easily change the aesthetic of the Podz luminiare	
RK3JPDZ4 DB BWH BFL	4" Round Baffle Black Trim Insert
RK3JPDZ4 DB WWH BFL	4" Round Baffle White Trim Insert
RK3JPDZ4 DC CWH RFL	4" Round Cone Clear Trim Insert
RK3JPDZ4 DC HZWH RFL	4" Round Cone Haze Trim Insert
RK3JPDZ4 DC WHZWH RFL	4" Round Cone Wheat Haze Trim Insert
RK3JPDZ4 DC WWH RFL	4" Round Cone White Trim Insert
RK3JPDZ4 SQDB BWH BFL	4" Square Baffle Black Trim Insert
RK3JPDZ4 SQDB WWH BFL	4" Square Baffle White Trim Insert
RK3JPDZ4 SQDC CWH RFL	4" Square Cone Clear Trim Insert
RK3JPDZ4 SQDC HZWH RFL	4" Square Cone Haze Trim Insert
RK3JPDZ4 SQDC WHZWH RFL	4" Square Cone Wheat Haze Trim Insert
RK3JPDZ4 SQDC WWH RFL	4" Square Cone White Trim Insert

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Podz™ LED Downlight Series

4" Canless Round and Square LED Downlight
New Construction or Remodel

Specifications

LED Light Engine
Patented color temperature and intensity configurable lighting fixture (US Patent No. 11,259,377 B2) with integrated light engine that mounts directly to aluminum housing providing superior heat transfer to ensure long life of the electronics • Switchable LED color temperature and adjustable lumen output directly on module for easy switching • Advanced color mixing technology provides consistent color rendering on the black body curve at all LED color temperatures • LED color temperature settings include 2700K, 3000K, 3500K, 4000K and 5000K; factory set at 3000K • Three lumen switching options include 700L, 1000L and 1200L; factory set at 1000L • Dedicated WarmDim setting provides performance similar to incandescent light sources and warms the LED color temperature over the dimming range from 2850K to 1900K • 90CRI minimum

LED Driver
Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) drivers that accommodate input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 at 120V input • 120 volt only driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Universal voltage drivers are dimmable with the use of most 0-10V wall box dimmers • For a list of compatible dimmers, see JUNOICLED-DIM

Optical System
Computer-optimized reflector design with high reflectance white finish coupled with a high transmission diffusing lens conceals the LEDS and produces uniform aperture luminance • Deep regression of lens produces a low glare, efficient system typical of a standard 4" downlight medium flood distribution providing even illumination for general downlighting applications.

Certifications
Can be used to comply with 2019 Title 24, Part 6, JA8 high efficacy LED light source requirements • UL listed for U.S. and Canada through-branch wiring, damp locations and for wet location (indoor and outdoor covered ceiling) • UL and cUL • NOM certified.

Testing All reports are based on published industry procedures; field performance may differ from laboratory performance.

Trim Module Construction
Low profile, < 3" aluminum housing with integral white flange • Designed for installation directly into the plenum in IC (insulated ceiling) or non-IC construction • Provided with spring clips for ease of installation • Accommodates up to a 1" ceiling thickness

Trim Finishes
Choice of baffle or cone trims in a selection of finishes ship installed in trim • Optional field installable trim inserts available.

Remodel Junction Box Construction
22-gauge die-formed galvanized steel junction box • Conduit cable with quick connect electrical plug pre-wired on junction box and allows for easy electrical connection with the trim module • Junction box provided with (5) ½" and (1) ¾" knockouts, (4) integrated wire traps for 12/2 or 12/3 NM cable UL listed and cUL listed for through-branch wiring, maximum of 4 #12 branch circuit

New Construction Mounting Frame
22-gauge die-formed galvanized steel mounting frame • Rough-in section (junction box, mounting frame and bar hangers) fully assembled for ease of installation • Pre-installed Air-Loc gasket applied to frame • Conduit cable with quick connect electrical plug pre-wired on junction box and allows for easy electrical connection with the trim module • Junction box provided with (5) ½" and (1) ¾" knockouts, (4) knockouts for 12/2 or 12/3 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum of 6 #12 branch circuit conductors • Junction box provided with removable access plates • Knock-outs equipped with pryout slots

Includes Patented (US Patent D552,969) Real Nail® 3 bar hangers: telescoping system permits quick placement of housing any where within 24" O.C. joists or suspended ceilings • Includes removable nail for repositioning of fixture in wood joist construction • Integral T-bar notch and clip for suspended ceilings.

LED housing is designed to provide 33,000 hours of life at 70% lumen maintenance • 5 year limited warranty on LED components.

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

Control the LED color temperature and lumen output in your space with the switchable LED color temperature and adjustable lumen output switches accessible directly on the Podz trim.

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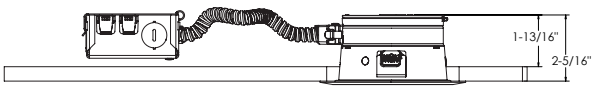
Podz™ LED Downlight Series

4" Canless Round and Square LED Downlight
New Construction or Remodel

TECHNICAL DATA

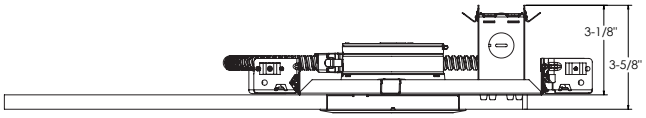
Dimensional Data and Electrical Data

Remodel - Round



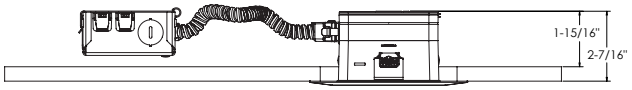
4 1/2" CEILING CUTOUT

New Construction - Round



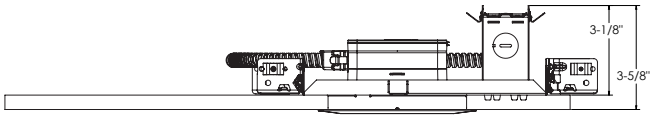
4 1/2" CEILING CUTOUT

Remodel - Square



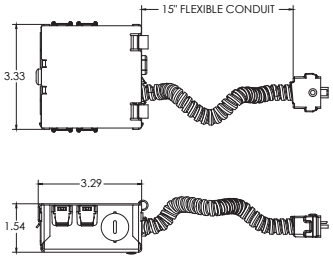
4 3/4" ROUND CEILING CUTOUT

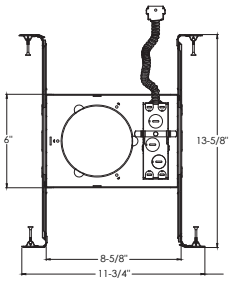
New Construction - Square



4 3/4" ROUND CEILING CUTOUT

Note: For ease of installation, a larger sized round cutout is used for the 4" square mounting frame.





ELECTRICAL DATA

Dedicated 120V Only Driver Option (120 FRPC)

	700L	1000L	1200L
Input Power	9.3W (+/-5%)	13.7W (+/-5%)	15.9W (+/-5%)
Input Current	0.08A	0.12A	0.14A
Frequency	50/60Hz	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)
Minimum starting temp	-20°C	-20°C	-20°C

ELECTRICAL DATA

Universal Voltage

	MVOLT ZT10					
	700L		1000L		1200L	
	120V	277V	120V	277V	120V	277V
Input Power	9.3W (+/-5%)	9.3W (+/-5%)	13.7W (+/-5%)	13.7W (+/-5%)	15.9W (+/-5%)	15.9W (+/-5%)
Input Current	0.08A	0.03A	0.12A	0.05A	0.14A	0.06A
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)
Minimum starting temp	-20°C	-20°C	-20°C	-20°C	-20°C	-20°C

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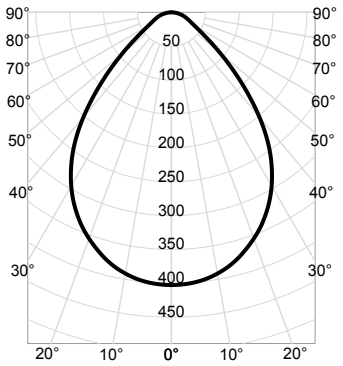
Podz™ LED Downlight Series

4" Canless Round and Square LED Downlight
New Construction or Remodel

PHOTOMETRICS

Distribution Curve | Distribution Data | Output Data | Coefficient of Utilization | Illuminance Data at 30" Above Floor for a Single Luminaire

JPDZ4 DB 700LM 3000K 90CRI WWH Input Watts: 9.3, Delivered Lumens: 671, LPW: 72.2, S/MH: 1.11, Test No: 20-973-1P39



CP Summary

0°
0°	403
5°	400
15°	377
25°	329
35°	254
45°	145
55°	59
65°	29
75°	17
85°	5
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	295	44%
0° - 40°	452	67%
0° - 60°	619	92%
0° - 90°	671	100%
90° - 180°	0	0%
0° - 180°	671	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	108	104	101	105	102	100	101	99	97
2	97	92	87	95	90	86	92	88	84
3	88	81	76	86	80	75	84	78	74
4	80	73	67	79	72	67	76	71	66
5	73	65	60	72	65	60	70	64	59
6	67	59	54	66	59	54	64	58	53
7	62	54	49	61	54	49	59	53	48
8	57	50	44	56	49	44	55	49	44
9	53	46	41	52	45	41	51	45	41
10	49	42	38	49	42	37	48	42	37

Cone of Light

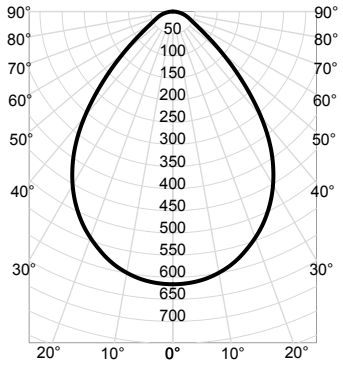
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	11.2	10.1
8.0	6.3	13.5
10.0	4.0	16.8
12.0	2.8	20.2
14.0	2.1	23.6

Beam Angle: 80.2°
Field Angle: 119.3°

Luminance (cd/sq.m)

	Average Luminance
0°	65,595
45°	33,377
55°	16,658
65°	11,246
75°	10,502
85°	8,964

JPDZ4 DB 1000LM 3000K 90CRI WWH Input Watts: 13.7, Delivered Lumens: 1027, LPW: 75.0, S/MH: 1.11, Test No: 20-973-1P51



CP Summary

0°
0°	616
5°	612
15°	576
25°	504
35°	389
45°	222
55°	90
65°	45
75°	26
85°	7
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	451	44%
0° - 40°	692	67%
0° - 60°	947	92%
0° - 90°	1,027	100%
90° - 180°	0	0%
0° - 180°	1,027	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	108	104	101	105	102	100	101	99	97
2	97	92	87	95	90	86	92	88	84
3	88	81	76	86	80	75	84	78	74
4	80	73	67	79	72	67	76	71	66
5	73	65	60	72	65	60	70	64	59
6	67	59	54	66	59	54	64	58	53
7	62	54	49	61	54	49	59	53	48
8	57	50	44	56	49	44	55	49	44
9	53	46	41	52	45	41	51	45	41
10	49	42	38	49	42	37	48	42	37

Cone of Light

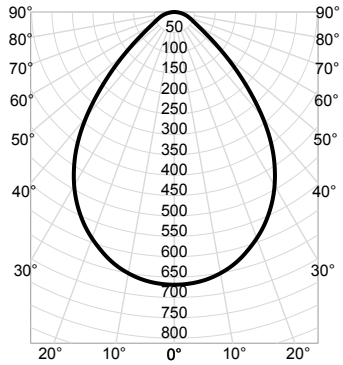
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	17.1	10.1
8.0	9.6	13.5
10.0	6.2	16.8
12.0	4.3	20.2
14.0	3.1	23.6

Beam Angle: 80.2°
Field Angle: 119.3°

Luminance (cd/sq.m)

	Average Luminance
0°	100,397
45°	51,085
55°	25,495
65°	17,213
75°	16,074
85°	13,720

JPDZ4 DB 1200LM 3000K 90CRI WWH Input Watts: 15.9, Delivered Lumens: 1115, LPW: 70.1, S/MH: 1.11, Test No: 20-973-1P63



CP Summary

0°
0°	669
5°	665
15°	626
25°	547
35°	422
45°	241
55°	97
65°	48
75°	28
85°	8
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	490	44%
0° - 40°	751	67%
0° - 60°	1,028	92%
0° - 90°	1,115	100%
90° - 180°	0	0%
0° - 180°	1,115	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	108	104	101	105	102	100	101	99	97
2	97	92	87	95	90	86	92	88	84
3	88	81	76	86	80	75	84	78	74
4	80	73	67	79	72	67	76	71	66
5	73	65	60	72	65	60	70	64	59
6	67	59	54	66	59	54	64	58	53
7	62	54	49	61	54	49	59	53	48
8	57	50	44	56	49	44	55	49	44
9	53	46	41	52	45	41	51	45	41
10	49	42	38	49	42	37	48	42	37

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	18.6	10.1
8.0	10.5	13.5
10.0	6.7	16.8
12.0	4.6	20.2
14.0	3.4	23.6

Beam Angle: 80.2°
Field Angle: 119.3°

Luminance (cd/sq.m)

	Average Luminance
0°	108,999
45°	55,463
55°	27,680
65°	18,688
75°	17,452
85°	14,896

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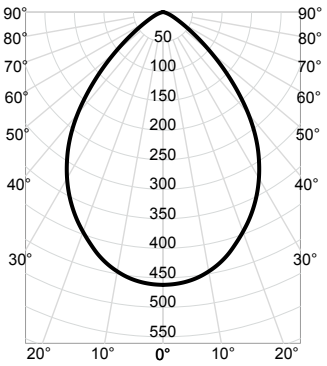
Podz™ LED Downlight Series

4" Canless Round and Square LED Downlight
New Construction or Remodel

PHOTOMETRICS

Distribution Curve | Distribution Data | Output Data | Coefficient of Utilization | Illuminance Data at 30" Above Floor for a Single Luminaire

JPDZ4 DC 700LM 3000K 90CRI WWH Input Watts: 9.3, Delivered Lumens: 713, LPW: 76.7, S/MH: 1.07, Test No: 20-973-4P77



CP Summary

	0°
0°	462
5°	458
15°	425
25°	364
35°	279
45°	163
55°	61
65°	20
75°	6
85°	1
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	330	46%
0° - 40°	503	70%
0° - 60°	685	96%
0° - 90°	713	100%
90° - 180°	0	0%
0° - 180°	713	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			70%			70%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	109	106	103	106	104	101	102	100	98
2	99	94	89	97	92	88	94	90	86
3	90	84	79	88	83	78	86	81	77
4	82	75	70	81	74	69	78	73	68
5	75	68	62	74	67	62	72	66	62
6	69	62	56	68	61	56	66	60	56
7	63	56	51	63	56	51	61	55	51
8	59	52	47	58	51	46	57	51	46
9	55	47	43	54	47	43	53	47	42
10	51	44	39	50	44	39	49	43	39

Cone of Light

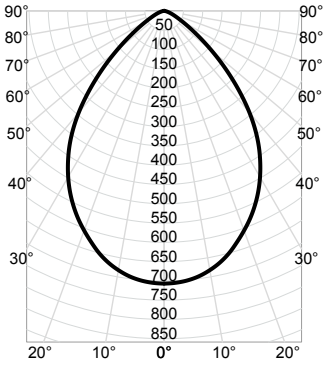
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	12.8	9.9
8.0	7.2	13.2
10.0	4.6	16.5
12.0	3.2	19.8
14.0	2.4	23.1

Beam Angle: 78.9°
Field Angle: 114.9°

Luminance (cd/sq.m)

	Average Luminance
0°	75,280
45°	37,619
55°	17,391
65°	7,553
75°	3,533
85°	1,335

JPDZ4 DC 1000LM 3000K 90CRI WWH Input Watts: 13.7, Delivered Lumens: 1091, LPW: 79.6, S/MH: 1.07, Test No: 20-973-4P101



CP Summary

	0°
0°	707
5°	701
15°	650
25°	557
35°	428
45°	250
55°	94
65°	30
75°	9
85°	1
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	505	46%
0° - 40°	769	70%
0° - 60°	1,049	96%
0° - 90°	1,091	100%
90° - 180°	0	0%
0° - 180°	1,091	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			70%			70%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	109	106	103	106	104	101	102	100	98
2	99	94	89	97	92	88	94	90	86
3	90	84	79	88	83	78	86	81	77
4	82	75	70	81	74	69	78	73	68
5	75	68	62	74	67	62	72	66	62
6	69	62	56	68	61	56	66	60	56
7	63	56	51	63	56	51	61	55	51
8	59	52	47	58	51	46	57	51	46
9	55	47	43	54	47	43	53	47	42
10	51	44	39	50	44	39	49	43	39

Cone of Light

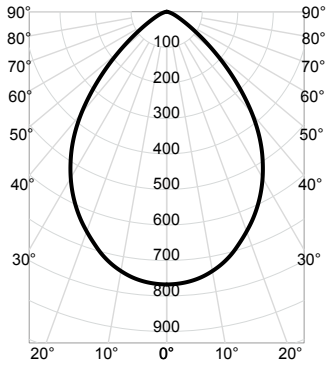
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	19.6	9.9
8.0	11.0	13.2
10.0	7.1	16.5
12.0	4.9	19.8
14.0	3.6	23.1

Beam Angle: 78.9°
Field Angle: 114.9°

Luminance (cd/sq.m)

	Average Luminance
0°	115,219
45°	57,578
55°	26,618
65°	11,560
75°	5,407
85°	2,044

JPDZ4 DC 1200LM 3000K 90CRI WWH Input Watts: 15.9, Delivered Lumens: 1185, LPW: 74.5, S/MH: 1.07, Test No: 20-973-4P125



CP Summary

	0°
0°	768
5°	761
15°	706
25°	604
35°	464
45°	271
55°	102
65°	33
75°	9
85°	1
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	548	46%
0° - 40°	835	70%
0° - 60°	1,139	96%
0° - 90°	1,185	100%
90° - 180°	0	0%
0° - 180°	1,185	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			70%			70%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	109	106	103	106	104	101	102	100	98
2	99	94	89	97	92	88	94	90	86
3	90	84	79	88	83	78	86	81	77
4	82	75	70	81	74	69	78	73	68
5	75	68	62	74	67	62	72	66	62
6	69	62	56	68	61	56	66	60	56
7	63	56	51	63	56	51	61	55	51
8	59	52	47	58	51	46	57	51	46
9	55	47	43	54	47	43	53	47	42
10	51	44	39	50	44	39	49	43	39

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	21.3	9.9
8.0	12.0	13.2
10.0	7.7	16.5
12.0	5.3	19.8
14.0	3.9	23.1

Beam Angle: 78.9°
Field Angle: 114.9°

Luminance (cd/sq.m)

	Average Luminance
0°	125,092
45°	62,511
55°	28,899
65°	12,551
75°	5,871
85°	2,219

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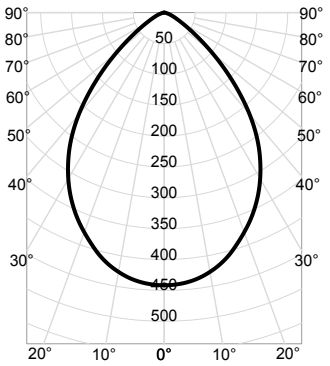
Podz™ LED Downlight Series

4" Canless Round and Square LED Downlight
New Construction or Remodel

PHOTOMETRICS

Distribution Curve | **Distribution Data** | **Output Data** | **Coefficient of Utilization** | **Illuminance Data at 30" Above Floor for a Single Luminaire**

JPDZ4 DC 700LM 3000K 90CRI HZWH Input Watts: 9.3, Delivered Lumens: 682, LPW: 73.3, S/MH: 1.07, Test No: 20-973-4P79



CP Summary

0°		
0°	442	
5°	438	
15°	406	
25°	348	
35°	267	
45°	156	
55°	59	
65°	19	
75°	5	
85°	1	
90°	0	

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	315	46%
0° - 40°	481	70%
0° - 60°	655	96%
0° - 90°	682	100%
90° - 180°	0	0%
0° - 180°	682	100%

Coefficients of Utilization

ρf	80%			70%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw									
0	119	119	119	116	116	116	111	111	111
1	109	106	103	106	104	101	102	100	98
2	99	94	89	97	92	88	94	90	86
3	90	84	79	88	83	78	86	81	77
4	82	75	70	81	74	69	78	73	68
5	75	68	62	74	67	62	72	66	62
6	69	62	56	68	61	56	66	60	56
7	63	56	51	63	56	51	61	55	51
8	59	52	47	58	51	46	57	51	46
9	55	47	43	54	47	43	53	47	42
10	51	44	39	50	44	39	49	43	39

Cone of Light

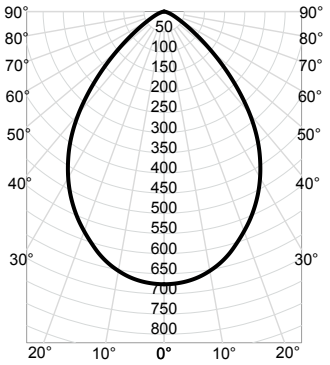
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	12.3	9.9
8.0	6.9	13.2
10.0	4.4	16.5
12.0	3.1	19.8
14.0	2.3	23.1

Beam Angle: 78.9°
Field Angle: 114.9°

Luminance (cd/sq.m)

	Average Luminance
0°	72,000
45°	35,980
55°	16,633
65°	7,224
75°	3,379
85°	1,277

JPDZ4 DC 1000LM 3000K 90CRI HZWH Input Watts: 13.7, Delivered Lumens: 1044, LPW: 76.2, S/MH: 1.07, Test No: 20-973-4P103



CP Summary

0°		
0°	676	
5°	671	
15°	622	
25°	532	
35°	409	
45°	239	
55°	90	
65°	29	
75°	8	
85°	1	
90°	0	

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	483	46%
0° - 40°	736	70%
0° - 60°	1,003	96%
0° - 90°	1,044	100%
90° - 180°	0	0%
0° - 180°	1,044	100%

Coefficients of Utilization

ρf	80%			70%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw									
0	119	119	119	116	116	116	111	111	111
1	109	106	103	106	104	101	102	100	98
2	99	94	89	97	92	88	94	90	86
3	90	84	79	88	83	78	86	81	77
4	82	75	70	81	74	69	78	73	68
5	75	68	62	74	67	62	72	66	62
6	69	62	56	68	61	56	66	60	56
7	63	56	51	63	56	51	61	55	51
8	59	52	47	58	51	46	57	51	46
9	55	47	43	54	47	43	53	47	42
10	51	44	39	50	44	39	49	43	39

Cone of Light

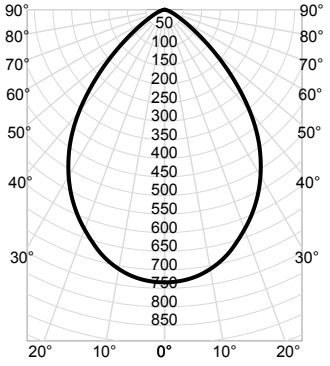
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	18.8	9.9
8.0	10.6	13.2
10.0	6.8	16.5
12.0	4.7	19.8
14.0	3.5	23.1

Beam Angle: 78.9°
Field Angle: 114.9°

Luminance (cd/sq.m)

	Average Luminance
0°	110,199
45°	55,069
55°	25,458
65°	11,057
75°	5,172
85°	1,955

JPDZ4 DC 1200LM 3000K 90CRI HZWH Input Watts: 15.9, Delivered Lumens: 1133, LPW: 71.3, S/MH: 1.07, Test No: 20-973-4P127



CP Summary

0°		
0°	734	
5°	728	
15°	675	
25°	578	
35°	444	
45°	259	
55°	97	
65°	31	
75°	9	
85°	1	
90°	0	

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	524	46%
0° - 40°	799	70%
0° - 60°	1,089	96%
0° - 90°	1,133	100%
90° - 180°	0	0%
0° - 180°	1,133	100%

Coefficients of Utilization

ρf	80%			70%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw									
0	119	119	119	116	116	116	111	111	111
1	109	106	103	106	104	101	102	100	98
2	99	94	89	97	92	88	94	90	86
3	90	84	79	88	83	78	86	81	77
4	82	75	70	81	74	69	78	73	68
5	75	68	62	74	67	62	72	66	62
6	69	62	56	68	61	56	66	60	56
7	63	56	51	63	56	51	61	55	51
8	59	52	47	58	51	46	57	51	46
9	55	47	43	54	47	43	53	47	42
10	51	44	39	50	44	39	49	43	39

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	20.4	9.9
8.0	11.5	13.2
10.0	7.3	16.5
12.0	5.1	19.8
14.0	3.7	23.1

Beam Angle: 78.9°
Field Angle: 114.9°

Luminance (cd/sq.m)

	Average Luminance
0°	119,642
45°	59,788
55°	27,640
65°	12,004
75°	5,615
85°	2,122

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JUNO

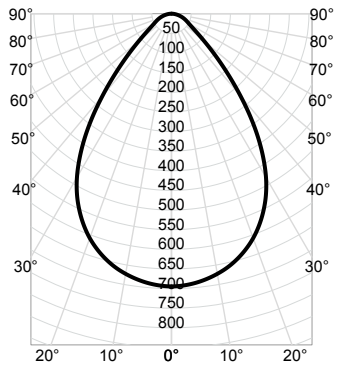
Podz™ LED Downlight Series

4" Canless Round and Square LED Downlight
New Construction or Remodel

PHOTOMETRICS

Distribution Curve | Distribution Data | Output Data | Coefficient of Utilization | Illuminance Data at 30" Above Floor for a Single Luminaire

JPDZ4 SQDB 700LM 3000K 90CRI FRPC WWH Input Watts: 9.2, Delivered Lumens: 643, LPW: 69.9, S/MH: 1.07, Test No: 21-608-1P50



CP Summary

0°	
0°	695
5°	689
15°	647
25°	554
35°	384
45°	176
55°	71
65°	41
75°	23
85°	6
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	504	47%
0° - 40°	755	71%
0° - 60°	994	93%
0° - 90°	1,066	100%
90° - 180°	0	0%
0° - 180°	1,066	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	117	117	117	111	111	111
1	108	105	102	106	103	101	102	100	97
2	98	93	89	96	92	88	93	89	86
3	89	83	78	88	82	77	85	80	76
4	81	74	69	80	74	69	78	72	68
5	75	67	62	74	67	62	72	66	61
6	69	61	56	68	61	56	66	60	55
7	63	56	51	63	56	51	61	55	50
8	59	52	47	58	51	46	57	51	46
9	55	48	43	54	47	43	53	47	43
10	51	44	40	51	44	40	50	44	39

Cone of Light

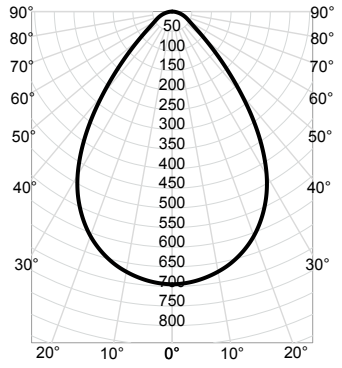
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	19.3	8.9
8.0	10.9	11.9
10.0	6.9	14.9
12.0	4.8	17.9
14.0	3.5	20.9

Beam Angle: 73.4°
Field Angle: 110.6°

Luminance (cd/sq.m)

	Average Luminance
0°	102,560
45°	36,835
55°	18,251
65°	14,359
75°	12,950
85°	10,673

JPDZ4 SQDB 1000LM 3000K 90CRI FRPC WWH Input Watts: 13.7, Delivered Lumens: 929, LPW: 67.8, S/MH: 1.07, Test No: 21-608-1P44



CP Summary

0°	
0°	695
5°	689
15°	647
25°	554
35°	384
45°	176
55°	71
65°	41
75°	23
85°	6
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	504	47%
0° - 40°	755	71%
0° - 60°	994	93%
0° - 90°	1,066	100%
90° - 180°	0	0%
0° - 180°	1,066	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	117	117	117	111	111	111
1	108	105	102	106	103	101	102	100	97
2	98	93	89	96	92	88	93	89	86
3	89	83	78	88	82	77	85	80	76
4	81	74	69	80	74	69	78	72	68
5	75	67	62	74	67	62	72	66	61
6	69	61	56	68	61	56	66	60	55
7	63	56	51	63	56	51	61	55	50
8	59	52	47	58	51	46	57	51	46
9	55	48	43	54	47	43	53	47	43
10	51	44	40	51	44	40	50	44	39

Cone of Light

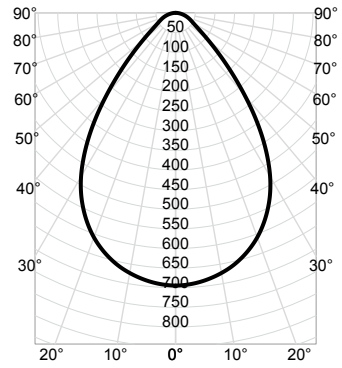
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	19.3	8.9
8.0	10.9	11.9
10.0	6.9	14.9
12.0	4.8	17.9
14.0	3.5	20.9

Beam Angle: 73.4°
Field Angle: 110.6°

Luminance (cd/sq.m)

	Average Luminance
0°	102,560
45°	36,835
55°	18,251
65°	14,359
75°	12,950
85°	10,673

JPDZ4 SQDB 1200LM 3000K 90CRI FRPC WWH Input Watts: 15.7, Delivered Lumens: 1044, LPW: 66.5, S/MH: 1.07, Test No: 21-608-1P38



CP Summary

0°	
0°	695
5°	689
15°	647
25°	554
35°	384
45°	176
55°	71
65°	41
75°	23
85°	6
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	504	47%
0° - 40°	755	71%
0° - 60°	994	93%
0° - 90°	1,066	100%
90° - 180°	0	0%
0° - 180°	1,066	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	117	117	117	111	111	111
1	108	105	102	106	103	101	102	100	97
2	98	93	89	96	92	88	93	89	86
3	89	83	78	88	82	77	85	80	76
4	81	74	69	80	74	69	78	72	68
5	75	67	62	74	67	62	72	66	61
6	69	61	56	68	61	56	66	60	55
7	63	56	51	63	56	51	61	55	50
8	59	52	47	58	51	46	57	51	46
9	55	48	43	54	47	43	53	47	43
10	51	44	40	51	44	40	50	44	39

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	19.3	8.9
8.0	10.9	11.9
10.0	6.9	14.9
12.0	4.8	17.9
14.0	3.5	20.9

Beam Angle: 73.4°
Field Angle: 110.6°

Luminance (cd/sq.m)

	Average Luminance
0°	102,560
45°	36,835
55°	18,251
65°	14,359
75°	12,950
85°	10,673

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JUNO

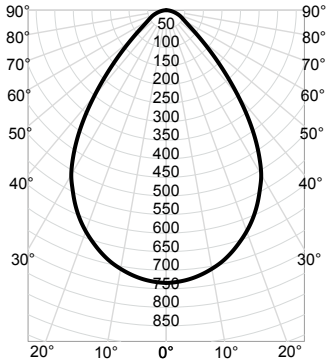
Podz™ LED Downlight Series

4" Canless Round and Square LED Downlight
New Construction or Remodel

PHOTOMETRICS

Distribution Curve | Distribution Data | Output Data | Coefficient of Utilization | Illuminance Data at 30" Above Floor for a Single Luminaire

JPDZ4 SQDC 700LM 3000K 90CRI FRPC WWH Input Watts: 9.2, Delivered Lumens: 682, LPW: 74.1, S/MH: 1.06, Test No: 21-609-1P32



CP Summary

0°	734
5°	727
15°	676
25°	579
35°	415
45°	197
55°	79
65°	45
75°	24
85°	6
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	526	46%
0° - 40°	792	70%
0° - 60°	1,057	93%
0° - 90°	1,136	100%
90° - 180°	0	0%
0° - 180°	1,136	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	117	117	117	111	111	111
1	108	105	102	106	103	100	102	99	97
2	98	93	88	96	91	87	93	89	85
3	89	83	77	87	82	77	85	80	75
4	81	74	69	80	73	68	78	72	67
5	74	67	61	73	66	61	71	65	61
6	68	61	55	67	60	55	66	59	55
7	63	56	50	62	55	50	61	55	50
8	58	51	46	58	51	46	57	50	46
9	54	47	42	54	47	42	53	46	42
10	51	44	39	50	43	39	49	43	39

Cone of Light

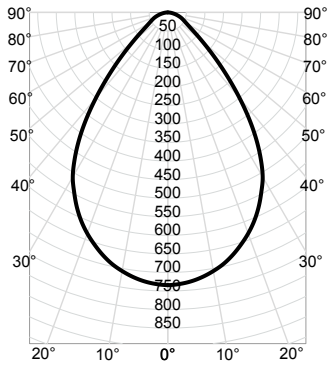
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	20.4	9.1
8.0	11.5	12.1
10.0	7.3	15.1
12.0	5.1	18.2
14.0	3.7	21.2

Beam Angle: 74.2°
Field Angle: 112.1°

Luminance (cd/sq.m)

	Average Luminance
0°	108,422
45°	41,094
55°	20,285
65°	15,792
75°	13,578
85°	9,826

JPDZ4 SQDC 1000LM 3000K 90CRI FRPC WWH Input Watts: 13.7, Delivered Lumens: 986, LPW: 72.0, S/MH: 1.06, Test No: 21-609-1P26



CP Summary

0°	734
5°	727
15°	676
25°	579
35°	415
45°	197
55°	79
65°	45
75°	24
85°	6
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	526	46%
0° - 40°	792	70%
0° - 60°	1,057	93%
0° - 90°	1,136	100%
90° - 180°	0	0%
0° - 180°	1,136	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	117	117	117	111	111	111
1	108	105	102	106	103	100	102	99	97
2	98	93	88	96	91	87	93	89	85
3	89	83	77	87	82	77	85	80	75
4	81	74	69	80	73	68	78	72	67
5	74	67	61	73	66	61	71	65	61
6	68	61	55	67	60	55	66	59	55
7	63	56	50	62	55	50	61	55	50
8	58	51	46	58	51	46	57	50	46
9	54	47	42	54	47	42	53	46	42
10	51	44	39	50	43	39	49	43	39

Cone of Light

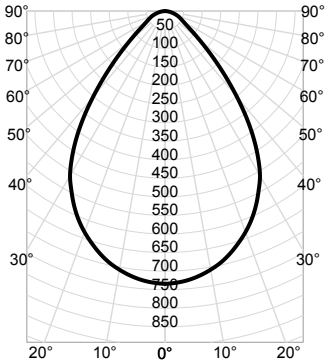
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	20.4	9.1
8.0	11.5	12.1
10.0	7.3	15.1
12.0	5.1	18.2
14.0	3.7	21.2

Beam Angle: 74.2°
Field Angle: 112.1°

Luminance (cd/sq.m)

	Average Luminance
0°	108,422
45°	41,094
55°	20,285
65°	15,792
75°	13,578
85°	9,826

JPDZ4 SQDC 1200LM 3000K 90CRI FRPC WWH Input Watts: 15.7, Delivered Lumens: 1108, LPW: 72.4, S/MH: 1.06, Test No: 21-609-1P19



CP Summary

0°	734
5°	727
15°	676
25°	579
35°	415
45°	197
55°	79
65°	45
75°	24
85°	6
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	526	46%
0° - 40°	792	70%
0° - 60°	1,057	93%
0° - 90°	1,136	100%
90° - 180°	0	0%
0° - 180°	1,136	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	117	117	117	111	111	111
1	108	105	102	106	103	100	102	99	97
2	98	93	88	96	91	87	93	89	85
3	89	83	77	87	82	77	85	80	75
4	81	74	69	80	73	68	78	72	67
5	74	67	61	73	66	61	71	65	61
6	68	61	55	67	60	55	66	59	55
7	63	56	50	62	55	50	61	55	50
8	58	51	46	58	51	46	57	50	46
9	54	47	42	54	47	42	53	46	42
10	51	44	39	50	43	39	49	43	39

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	20.4	9.1
8.0	11.5	12.1
10.0	7.3	15.1
12.0	5.1	18.2
14.0	3.7	21.2

Beam Angle: 74.2°
Field Angle: 112.1°

Luminance (cd/sq.m)

	Average Luminance
0°	108,422
45°	41,094
55°	20,285
65°	15,792
75°	13,578
85°	9,826

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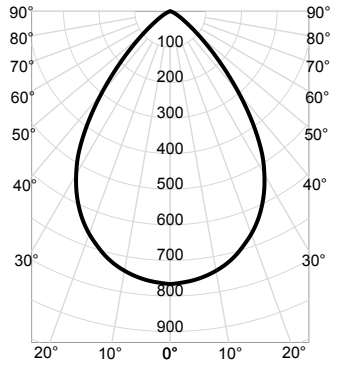
Podz™ LED Downlight Series

4" Canless Round and Square LED Downlight
New Construction or Remodel

PHOTOMETRICS

Distribution Curve | Distribution Data | Output Data | Coefficient of Utilization | Illuminance Data at 30" Above Floor for a Single Luminaire

JPDZ4 SQDC 700LM 3000K 90CRI FRPC HZWH Input Watts: 9.2, Delivered Lumens: 650, LPW: 70.7, S/MH: 1.06, Test No: 21-625-1P32



CP Summary

0°	
0°	767
5°	758
15°	710
25°	607
35°	425
45°	185
55°	53
65°	15
75°	3
85°	0
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	553	51%
0° - 40°	827	77%
0° - 60°	1,061	98%
0° - 90°	1,081	100%
90° - 180°	0	0%
0° - 180°	1,081	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	117	117	117	111	111	111
1	110	107	104	107	105	103	103	101	99
2	100	96	92	99	94	91	95	92	89
3	92	86	81	90	85	81	88	83	79
4	84	78	73	83	77	72	81	76	71
5	78	71	66	77	70	65	75	69	65
6	72	65	60	71	64	59	69	63	59
7	66	59	54	66	59	54	64	58	54
8	62	55	50	61	54	50	60	54	49
9	57	51	46	57	50	46	56	50	46
10	54	47	42	53	47	42	52	46	42

Cone of Light

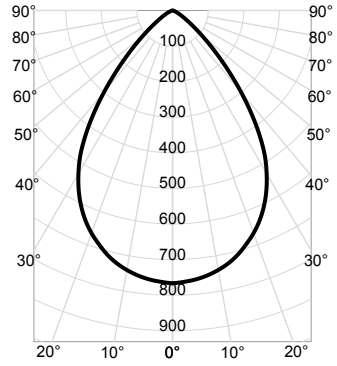
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	21.3	8.9
8.0	12.0	11.9
10.0	7.7	14.9
12.0	5.3	17.9
14.0	3.9	20.9

Beam Angle: 73.3°
Field Angle: 104.6°

Luminance (cd/sq.m)

	Average Luminance
0°	113,176
45°	38,630
55°	13,669
65°	5,171
75°	1,711
85°	678

JPDZ4 SQDC 1000LM 3000K 90CRI FRPC HZWH Input Watts: 13.7, Delivered Lumens: 939, LPW: 68.5, S/MH: 1.06, Test No: 21-625-1P26



CP Summary

0°	
0°	767
5°	758
15°	710
25°	607
35°	425
45°	185
55°	53
65°	15
75°	3
85°	0
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	553	51%
0° - 40°	827	77%
0° - 60°	1,061	98%
0° - 90°	1,081	100%
90° - 180°	0	0%
0° - 180°	1,081	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	117	117	117	111	111	111
1	110	107	104	107	105	103	103	101	99
2	100	96	92	99	94	91	95	92	89
3	92	86	81	90	85	81	88	83	79
4	84	78	73	83	77	72	81	76	71
5	78	71	66	77	70	65	75	69	65
6	72	65	60	71	64	59	69	63	59
7	66	59	54	66	59	54	64	58	54
8	62	55	50	61	54	50	60	54	49
9	57	51	46	57	50	46	56	50	46
10	54	47	42	53	47	42	52	46	42

Cone of Light

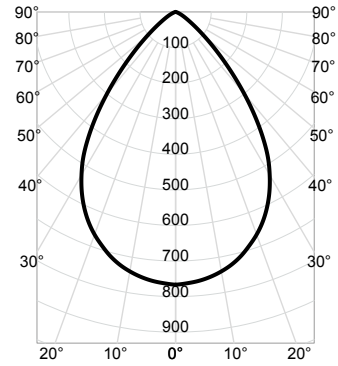
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	21.3	8.9
8.0	12.0	11.9
10.0	7.7	14.9
12.0	5.3	17.9
14.0	3.9	20.9

Beam Angle: 73.3°
Field Angle: 104.6°

Luminance (cd/sq.m)

	Average Luminance
0°	113,176
45°	38,630
55°	13,669
65°	5,171
75°	1,711
85°	678

JPDZ4 SQDC 1200LM 3000K 90CRI FRPC HZWH Input Watts: 15.7, Delivered Lumens: 1055, LPW: 67.2, S/MH: 1.06, Test No: 21-625-1P20



CP Summary

0°	
0°	767
5°	758
15°	710
25°	607
35°	425
45°	185
55°	53
65°	15
75°	3
85°	0
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	553	51%
0° - 40°	827	77%
0° - 60°	1,061	98%
0° - 90°	1,081	100%
90° - 180°	0	0%
0° - 180°	1,081	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	117	117	117	111	111	111
1	110	107	104	107	105	103	103	101	99
2	100	96	92	99	94	91	95	92	89
3	92	86	81	90	85	81	88	83	79
4	84	78	73	83	77	72	81	76	71
5	78	71	66	77	70	65	75	69	65
6	72	65	60	71	64	59	69	63	59
7	66	59	54	66	59	54	64	58	54
8	62	55	50	61	54	50	60	54	49
9	57	51	46	57	50	46	56	50	46
10	54	47	42	53	47	42	52	46	42

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	21.3	8.9
8.0	12.0	11.9
10.0	7.7	14.9
12.0	5.3	17.9
14.0	3.9	20.9

Beam Angle: 73.3°
Field Angle: 104.6°

Luminance (cd/sq.m)

	Average Luminance
0°	113,176
45°	38,630
55°	13,669
65°	5,171
75°	1,711
85°	678

4" ROUND LUMEN OUTPUT MULTIPLIERS

CCT	DB WWH	DB BWH	DC WWH	DC CWH	DC WHZWH	DC HZWH
2700K	1.01	0.78	1.07	1.11	1.03	1.01
3000K	1.00	0.77	1.06	1.09	1.01	1.00
3500K	1.00	0.77	1.07	1.10	1.02	1.00
4000K	1.01	0.78	1.07	1.11	1.02	1.01
5000K	1.00	0.77	1.06	1.09	1.01	1.00
Warm Dim	0.92	0.71	0.98	1.01	0.93	0.92

4" SQUARE LUMEN OUTPUT MULTIPLIERS

CCT	DB WWH	DB BWH	DC WWH	DC CWH	DC WHZWH	DC HZWH
2700K	1.04	0.74	1.06	1.08	0.98	1.01
3000K	1	0.74	1.06	1.08	0.98	1.01
3500K	1.07	0.74	1.06	1.08	0.98	1.01
4000K	1.08	0.74	1.06	1.08	0.98	1.01
5000K	0.98	0.74	1.06	1.08	0.98	1.01
Warm Dim	0.88	0.74	1.06	1.08	0.98	1.01

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