



Podz™ LED Downlight Series

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

JPDZ4 Series



Complete remodel fixture shown

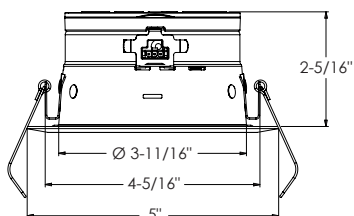


Complete new construction fixture shown

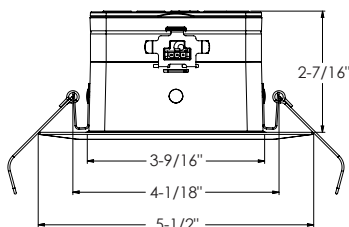


Dimensions

4" Round



4" Square



Application Flexibility - Remodel



Application Flexibility - New Construction



Project:
Fixture Type:
Location:
Contact/Phone:

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

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

	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).



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ORDERING INFORMATION

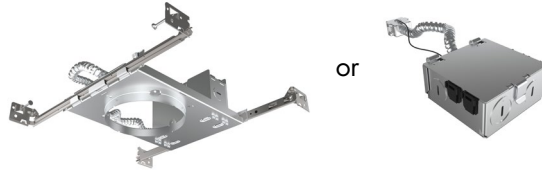
Two ways to order Podz:

1. Ship separate trim module and mounting

Trim Module



Mounting Option



Example: JPDZ4 DC ALO10 SWS5WD 90CRI JPDZRMJBX 120 FRPC WWH, Ships as example: Trim module: JPDZ4 DC ALO10 SWS5WD 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 DC Round Downlight Cone SQDB Square Downlight Baffle SQDC Square Downlight Reflector	ALO10 Adjustable Lumen Output 700L, 1000L, and 1200L	SWS5WD Switchable White 2700K, 3000K, 3500K, 4000K, 5000K, + WarmDim (2850K-1900K)	90CRI 90+CRI

Mounting (Required for complete fixture)	Voltage/Driver	Finish
REMODEL: JPDZRMJBX⁴ Juno Podz universal remodel junction box (for 4", 5", 6")	120V FRPC 120V Forward/Reverse Phase Cut, 5% dim MVOLT ZT10 Multi-Volt (120-277), 0-10V, 10% dim	WWH¹ White, White Trim Ring BWH^{2,5} Black, White Trim Ring CWH³ Clear, White Trim Ring HZWH³ Haze, White Trim Ring WHZWH³ Wheat Haze, White Trim Ring
NEW CONSTRUCTION: JPDZ4RDNCMF Juno Podz 4IN Round New Construction Mounting Frame JPDZ4SQNCMF 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 ENERGY STAR® and T24 certified.

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 RDC1 Round Downlight Cone 120V	WWH White, White Trim Ring

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 luminaire

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



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

ENERGY STAR® Certified • 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 1/2" 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) 1/2" and (1) 3/4" 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) 1/2" and (1) 3/4" 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 4 #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.

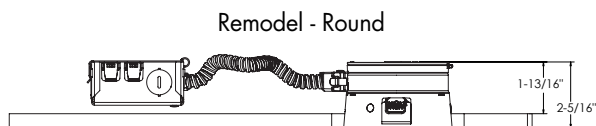


Podz™ LED Downlight Series

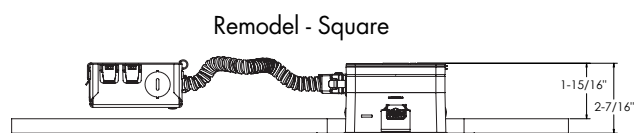
4" Canless Round and Square LED Downlight
New Construction or Remodel

TECHNICAL DATA

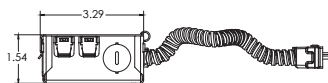
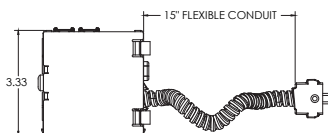
Dimensional Data and Electrical Data



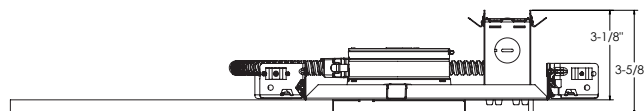
4 1/2" CEILING CUTOUT



4 3/4" ROUND CEILING CUTOUT

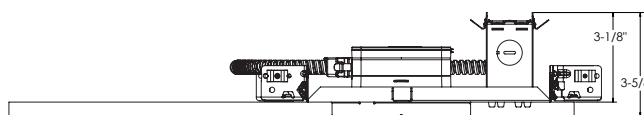


New Construction - Round



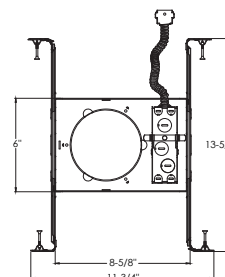
4 1/2" CEILING CUTOUT

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	8.1W (+/-5%)	13.6W (+/-5%)	15W (+/-5%)
Input Current	0.07A	0.11A	0.13A
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	8.1W (+/-5%)	8.1W (+/-5%)	13.6W (+/-5%)	13.6W (+/-5%)	15W (+/-5%)	15W (+/-5%)
Input Current	0.07A	0.03A	0.11A	0.05A	0.13A	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



Podz™ LED Downlight Series

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

PHOTOMETRICS

Distribution Curve

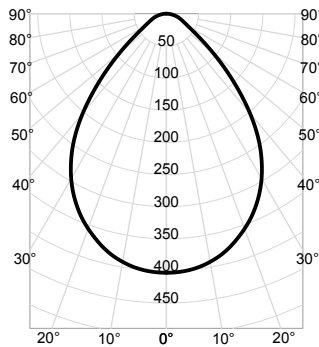
Distribution Data

Output Data

Coefficient of Utilization

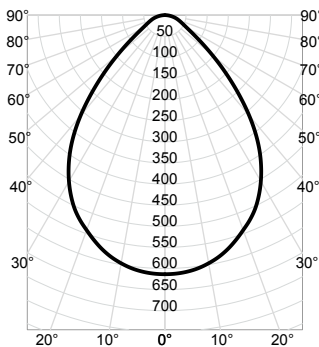
Illuminance Data at 30" Above
Floor for a Single Luminaire

JPDZ4 DB 07LM 30K 90CRI WWH, Input Watts: 8.1, Delivered Lumens: 672, LPW: 83.0, S/MH: 1.11, Test No: 20-973-1



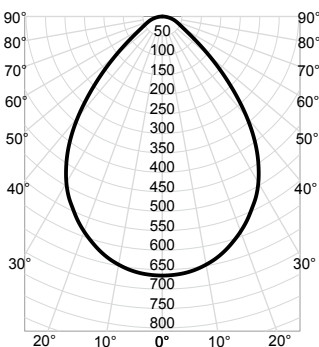
CP Summary		Zonal Lumen Summary		Coefficients of Utilization						Cone of Light			Luminance (cd/sq.m)					
0°	Zone	Lumens	% Fixture	pf	80%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
				pc	50%	30%	10%	50%	30%	10%				50%	30%	10%	0°	85°
0°	0° - 30°	295	44%	0	119	119	119	116	116	116	111	111	111	6.0	11.2	10.1	0°	65,673
5°	0° - 40°	452	67%	1	108	104	101	105	102	100	101	99	97	8.0	6.3	13.5	45°	33,417
15°	0° - 60°	619	92%	2	97	92	87	95	90	86	92	88	84	10.0	4.0	16.8	55°	16,678
25°	0° - 90°	672	100%	3	88	81	76	86	80	75	84	78	74	12.0	2.8	20.2	65°	11,259
35°	90° - 180°	0	0%	4	80	73	67	79	72	67	76	71	66	14.0	2.1	23.6	75°	10,515
45°	0° - 180°	672	100%	5	73	65	60	72	65	60	70	64	59				85°	8,975
55°		59		6	67	59	54	66	59	54	64	58	53					
65°		29		7	62	54	49	61	54	49	59	53	48					
75°		17		8	57	50	44	56	49	44	55	49	44					
85°		5		9	53	46	41	52	45	41	51	45	41					
90°		0		10	49	42	38	49	42	37	48	42	37					

JPDZ4 DB 10LM 30K 90CRI WWH, Input Watts: 13.6, Delivered Lumens: 1028, LPW: 75.6, S/MH: 1.12, Test No: 20-973-2



CP Summary		Zonal Lumen Summary		Coefficients of Utilization						Cone of Light			Luminance (cd/sq.m)					
0°	Zone	Lumens	% Fixture	pf	80%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
				pc	50%	30%	10%	50%	30%	10%				50%	30%	10%	0°	85°
0°	0° - 30°	451	44%	0	119	119	119	116	116	116	111	111	111	6.0	17.0	10.1	0°	99,993
5°	0° - 40°	692	67%	1	108	104	101	105	102	100	101	99	97	8.0	9.6	13.5	45°	51,301
15°	0° - 60°	948	92%	2	97	92	87	95	90	86	92	88	84	10.0	6.1	16.9	55°	25,656
25°	0° - 90°	1,028	100%	3	88	81	76	86	80	75	84	78	74	12.0	4.3	20.3	65°	17,198
35°	90° - 180°	0	0%	4	80	73	67	79	72	67	76	71	66	14.0	3.1	23.7	75°	16,056
45°	0° - 180°	1,028	100%	5	73	65	60	72	65	60	70	64	59				85°	13,649
55°		90		6	67	59	54	66	59	54	64	58	53					
65°		45		7	62	54	49	61	54	49	59	53	48					
75°		26		8	57	50	44	56	49	44	55	49	44					
85°		7		9	53	46	41	52	45	41	51	45	40					
90°		0		10	49	42	37	49	42	37	48	42	37					

JPDZ4 DB 12LM 30K 90CRI WWH, Input Watts: 15.0, Delivered Lumens: 1116, LPW: 74.4, S/MH: 1.12, Test No: 20-973-3



CP Summary		Zonal Lumen Summary		Coefficients of Utilization						Cone of Light			Luminance (cd/sq.m)					
0°	Zone	Lumens	% Fixture	pf	80%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
				pc	50%	30%	10%	50%	30%	10%				50%	30%	10%	0°	85°
0°	0° - 30°	488	44%	0	119	119	119	116	116	116	111	111	111	6.0	18.5	10.2	0°	108,434
5°	0° - 40°	750	67%	1	108	104	101	105	102	100	101	99	97	8.0	10.4	13.5	45°	55,818
15°	0° - 60°	1,029	92%	2	97	92	87	95	90	86	92	88	84	10.0	6.7	16.9	55°	27,928
25°	0° - 90°	1,116	100%	3	88	81	76	86	80	75	84	78	74	12.0	4.6	20.3	65°	18,702
35°	90° - 180°	0	0%	4	80	73	67	79	72	67	76	70	66	14.0	3.4	23.7	75°	17,441
45°	0° - 180°	1,116	100%	5	73	65	60	72	65	60	70	64	59				85°	14,771
55°		98		6	67	59	54	66	59	54	64	58	53					
65°		49		7	62	54	49	61	54	49	59	53	48					
75°		28		8	57	50	44	56	49	44	55	49	44					
85°		8		9	53	46	41	52	45	41	51	45	40					
90°		0		10	49	42	37	49	42	37	48	42	37					



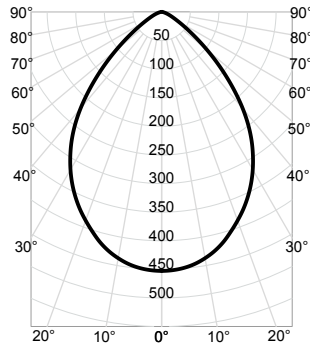
Podz™ LED Downlight Series

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

PHOTOMETRICS

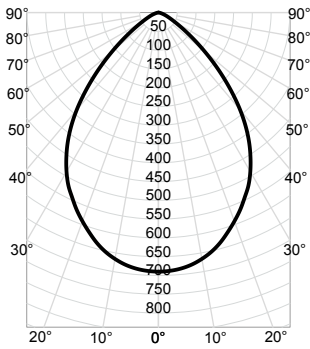
Distribution Curve Distribution Data Output Data Coefficient of Utilization Illuminance Data at 30" Above Floor for a Single Luminaire

JPDZ4 DC 07LM 30K 90CRI HZWH, Input Watts: 8.1, Delivered Lumens: 699, LPW: 86.3, S/MH: 1.07, Test No: 20-973-4



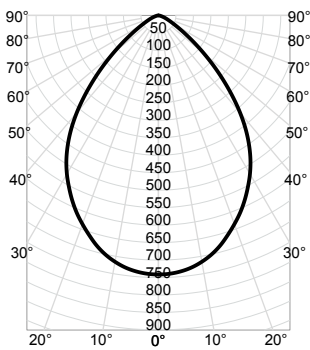
CP Summary		Zonal Lumen Summary		Coefficients of Utilization						Cone of Light			Luminance (cd/sq.m)			
0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
				pc	50%	30%	10%	50%	30%	10%					50%	30%
0°	0° - 30°	323	46%	0	119	119	119	116	116	111	111	111	6.0	12.6	9.9	0° 73,789
5°	0° - 40°	493	70%	1	109	106	103	106	104	101	102	100	8.0	7.1	13.2	45° 36,874
15°	0° - 60°	672	96%	2	99	94	89	97	92	88	94	90	10.0	4.5	16.5	55° 17,047
25°	0° - 90°	699	100%	3	90	84	79	88	83	78	86	81	12.0	3.1	19.8	65° 7,404
35°	90° - 180°	0	0%	4	82	75	70	81	74	69	78	73	14.0	2.3	23.1	75° 3,463
45°	0° - 180°	699	100%	5	75	68	62	74	67	62	72	66				85° 1,309
55°		60		6	69	62	56	68	61	56	66	60	Beam Angle: 78.9°			
65°		19		7	63	56	51	63	56	51	61	55	Field Angle: 114.9°			
75°		6		8	59	52	47	58	51	46	57	51				
85°		1		9	55	47	43	54	47	43	53	47				
90°		0		10	51	44	39	50	44	39	49	43				

JPDZ4 DC 10LM 30K 90CRI HZWH, Input Watts: 13.6, Delivered Lumens: 1070, LPW: 78.7, S/MH: 1.07, Test No: 20-973-5



CP Summary		Zonal Lumen Summary		Coefficients of Utilization						Cone of Light			Luminance (cd/sq.m)			
0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
				pc	50%	30%	10%	50%	30%	10%					50%	30%
0°	0° - 30°	493	46%	0	119	119	119	116	116	111	111	111	6.0	19.2	9.9	0° 112,427
5°	0° - 40°	754	70%	1	109	106	103	106	104	101	102	100	8.0	10.8	13.2	45° 56,624
15°	0° - 60°	1,029	96%	2	99	94	89	97	92	88	94	90	10.0	6.9	16.6	55° 26,224
25°	0° - 90°	1,070	100%	3	90	84	79	88	83	78	85	81	12.0	4.8	19.9	65° 11,298
35°	90° - 180°	0	0%	4	82	75	70	81	74	69	78	73	14.0	3.5	23.2	75° 5,289
45°	0° - 180°	1,070	100%	5	75	68	62	74	67	62	72	66				85° 2,057
55°		92		6	69	61	56	68	61	56	66	60	Beam Angle: 79.3°			
65°		29		7	63	56	51	63	56	51	61	55	Field Angle: 114.9°			
75°		8		8	59	51	46	58	51	46	57	51				
85°		1		9	54	47	43	54	47	43	53	47				
90°		0		10	51	44	39	50	44	39	49	43				

JPDZ4 DC 12LM 30K 90CRI HZWH, Input Watts: 15.0, Delivered Lumens: 1149, LPW: 76.6, S/MH: 1.07, Test No: 20-973-6



CP Summary		Zonal Lumen Summary		Coefficients of Utilization						Cone of Light			Luminance (cd/sq.m)			
0°	Zone	Lumens	% Fixture	pf	80%		20%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
				pc	50%	30%	10%	50%	30%	10%					50%	30%
0°	0° - 30°	529	46%	0	119	119	119	116	116	111	111	111	6.0	20.6	9.9	0° 120,819
5°	0° - 40°	809	70%	1	109	106	103	106	104	101	102	100	8.0	11.6	13.2	45° 60,796
15°	0° - 60°	1,104	96%	2	99	94	89	97	92	88	94	90	10.0	7.4	16.6	55° 28,127
25°	0° - 90°	1,149	100%	3	90	84	79	88	83	78	86	81	12.0	5.1	19.9	65° 12,146
35°	90° - 180°	0	0%	4	82	75	70	81	74	69	78	73	14.0	3.8	23.2	75° 5,667
45°	0° - 180°	1,149	100%	5	75	68	62	74	67	62	72	66				85° 2,244
55°		99		6	69	61	56	68	61	56	66	60	Beam Angle: 79.2°			
65°		32		7	63	56	51	63	56	51	61	55	Field Angle: 114.9°			
75°		9		8	59	51	46	58	51	46	57	51				
85°		1		9	54	47	43	54	47	43	53	47				
90°		0		10	51	44	39	50	44	39	49	43				

4" 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