



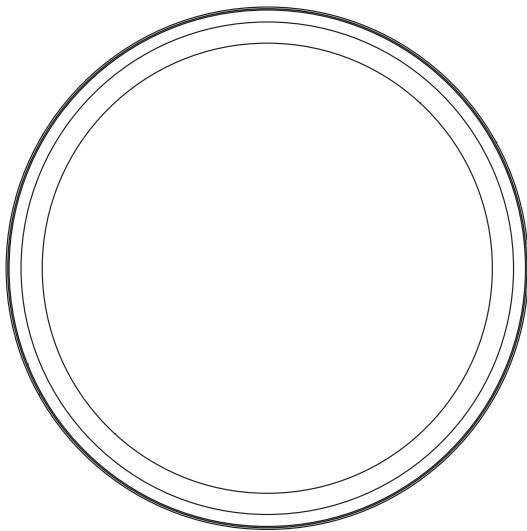
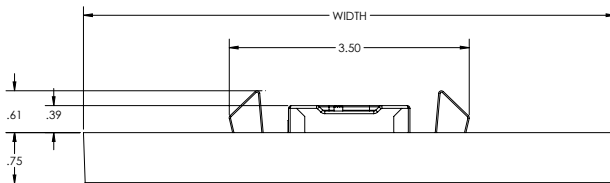
Juno SlimForm™ LED with Selectable CCT

5" and 7" Round Downlight for JBox Installation

JSF Series



Dimensions



Project:

Fixture Type:

Location:

Contact/Phone:

Product Features

Sleek, ultra-low profile energy efficient LED surface mount downlights available in 5" and 7" sizes. Optional finish trims available for custom, designer look similar to standard recessed downlights. Provides general illumination in residential and commercial applications including multi-family and hospitality. Ideal for use in corridors, living spaces, closets, hallways, pantries, stairways, outdoor covered areas and much more.

With the newly added selectable CCT switch, the JSF gives the ultimate in flexibility for both the distributor as well as the end user.

Applications

- Suitable for wet locations (indoor covered ceilings): perfect for closets, showers, bathrooms, outdoor soffits, and covered ceiling applications.
- Residential and Light Commercial applications including multi-family and hospitality
- Ideal for use in corridors, foyers, living spaces, closets, hallways, pantries, stairways and much more
- Installs directly into industry standard junction boxes
- Suitable for use within closet storage spaces when installed per NEC requirements. *Junction box sizes vary - Verify compatibility with fixture prior to installation*

Performance

Delivered Lumens	JSF 5IN = 791L - 854L JSF 7IN = 1182L - 1324L
Led Color Temperature	Switchable White (2700K, 3000K, 3500K, 4000K, 5000K) Default set at 3000K
CRI	90+
Voltage	Dedicated 120V and MVOLT (120V-277V)
Dimming	Phase Dimming down to 10%. 0-10V and phase dimming available.

Specifications

	Width	Depth
JSF 5IN	5.25 (13.34)	0.75 (1.91)
JSF 7IN	7.77 (19.74)	0.75 (1.91)

All dimensions are in Inches (centimeters unless otherwise indicated).



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ORDERING INFORMATION

SlimForm LED Downlight

Example: JSF 5IN 07LM SWW5 90CRI 120 FRPC WH

Series	Size/Lumens	Color Temperature	CRI	Voltage/Driver	Finish ¹
JSF SlimForm Surface Mount Downlight - Round	5IN 07LM 5", 791-854 Lumens 7IN 10LM 7", 1182-1324 Lumens	SWW5 Switchable White (2700K, 3000K, 3500K, 4000K, 5000K)	90CRI 90+ CRI	120 FRPC Dedicated 120V, Forward Reverse Phase Dimming MVOLT ZT Universal Voltage 120V-277V, 0-10V Dimming	WH White WH LGL² White Low Glare Lens BL LGL² Black Low Glare Lens BZ LGL² Bronze Low Glare Lens SN LGL² Satin Nickel Low Glare Lens

Note:

- Trim Accessories must be ordered separately with white finish only. Not available with LGL option.
- Trim finishes with LGL option ship complete. See Accessories if ordering without LGL.

ACCESSORIES¹

TRIM — Optional, field installable finish trim rings available to change the exterior finish of fixture.

Example: JSFTRIM 5IN BZ

Series	Size	Finish
JSFTRIM SlimForm Accessory- Trim	5IN 5 inches 7IN 7 inches	WH White BL Black BZ Bronze SN* Satin Nickel

Note:

* SN not available for 5IN



BLACK



BRONZE



SATIN NICKEL

REMOTE EMERGENCY IOTA INVERTERS FOR FIELD INSTALLATION

Inverter Part Number	Description
IIS 25 I	Emergency Inverter, 25W output
IIS 50 I	Emergency Inverter, 50W output
IIS 35 HE	Emergency Inverter, 35W output, High Efficiency (meets CA T20 efficiency requirement)

Must be ordered on a separate line. For Emergency Battery related questions contact us at techsupport@iotaengineering.com



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Specifications

Construction

Shallow, less than 1", solid ring with white finish • Non conductive construction allows for light shower applications • Optional, field installable finish trims available for 5" and 7" versions to change the exterior finish of fixture

Optics

Light guide technology combined with diffusing lens conceals the LEDs from direct view and provides uniform lens luminance.

LED Light Engine

LEDs mounted directly to heatsink designed to provide superior thermal management and ensure long life • Selectable CCT with steps at 27K, 30K, 35K, 40K, 50K • LEDs binned for 4-step MacAdam ellipse color consistency • 90 CRI minimum.

LED Driver

Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) driver that accommodates input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 at 120V input • 120 volt driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Universal voltage driver is dimmable with the use of most 0-10V wall box dimmers • External driver is only available on 5" and 7" models • For a list of compatible dimmers, see [JUNOSLIMFORM-DIM](#).

Installation

Junction Box Mounting

Fixture provided with leads for direct wire connection in j-box • Installs directly to industry standard junction boxes • Compatible junction boxes include 4" metal standard and IC1JB junction box housing (3 1/2" junction box screw-hole spacing required for installation) • Minimum 1 3/4" depth and minimum 3 1/2" width of junction box required for installation for 5" and 7" fixtures • Quick mount bracket provides fast installation of fully assembled fixture to junction box • Suitable for ceiling mount • Suitable for use within closet storage spaces when installed per NEC requirements. Junction box sizes vary - Verify compatibility with fixture prior to installation

Life

Rated for 50,000 hours at >70% lumen maintenance.

Labels

Certified to the high efficacy requirements of California T24 JA8-2019 • CSA listed for US and Canada • Suitable for wet locations (covered ceilings).

Testing

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

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.

ELECTRICAL DATA

Dedicated 120V Only Driver Option (120 FRPC)

	5IN 07LM	7IN 10LM
Input Power	9.2W (+/-5)	12.3W (+/-5)
Input Current	0.08A	0.10A
Frequency	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47, Part 15 Class B (consumer)	FCC Title 47, Part 15 Class B (consumer)
Minimum Starting Temp	-20°C	-20°C

Universal Voltage MVOLT ZT

	5IN 07LM		7IN 10LM	
	120V	277V	120V	277V
Input Power	9.2W (+/-5)	9.2W (+/-5)	12.3W (+/-5)	12.3W (+/-5)
Input Current	0.08A	0.03A	0.10A	0.04A
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47, Part 15 Class B (consumer)	FCC Title 47, Part 15 Class B (consumer)	FCC Title 47, Part 15 Class B (consumer)	FCC Title 47, Part 15 Class B (consumer)
Minimum Starting Temp	-20°C	-20°C	-20°C	-20°C

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.



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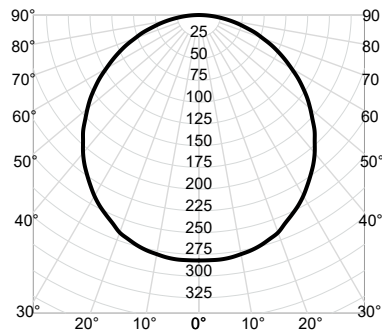
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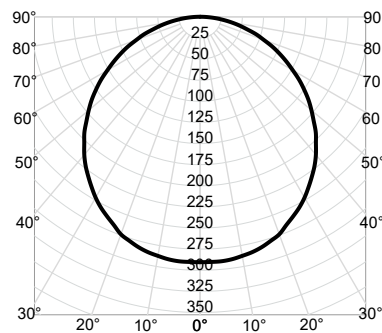
PHOTOMETRICS

JSF 5IN 07LM SWW5 - 27K Input Watts: 9.2, Delivered Lumens: 791, LPW: 86.0, S/MH: 1.25, Test No: ISF 231051P1



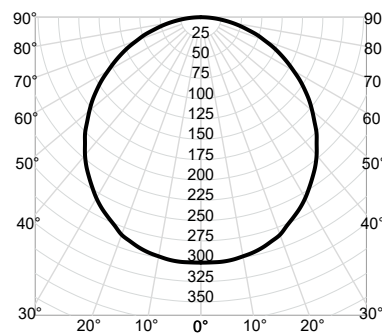
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
																Mounting Height	Initial FC Center Beam	Beam Diameter		
		0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				Average Luminance	
0°	282	0° - 30°	220	28%	0	119	119	119	116	116	116	111	111	111	6.0	7.8	17.9	0°	31,550	
5°	282	0° - 40°	358	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.4	23.8	45°	29,745	
15°	274	0° - 60°	625	79%	2	91	84	78	89	82	77	85	80	75	10.0	2.8	29.8	55°	28,478	
25°	253	0° - 90°	791	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.0	35.8	65°	26,737	
35°	224	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.4	41.7	75°	24,207	
45°	188	0° - 180°	791	100%	5	63	54	47	62	54	47	60	52	47	Beam Angle: 112.3° Field Angle: 163.9°			85°	21,822	
55°	146				6	57	48	41	56	47	41	54	47	41						
65°	101				7	52	43	37	51	42	36	49	42	36						
75°	56				8	47	39	33	46	38	33	45	38	32						
85°	17				9	43	35	29	43	35	29	42	34	29						
90°	0				10	40	32	27	39	32	27	38	31	27						

JSF 5IN 07LM SWW5 - 30K Input Watts: 9.1, Delivered Lumens: 814, LPW: 89.5, S/MH: 1.25, Test No: ISF 231051P2



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf									Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance		
						pc	80%		70%		50%									
	0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	290	0° - 30°	227	28%	0	119	119	119	116	116	116	111	111	111	6.0	8.1	17.9	0°	32,496	
5°	290	0° - 40°	369	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.5	23.8	45°	30,638	
15°	282	0° - 60°	643	79%	2	91	84	78	89	82	77	85	80	75	10.0	2.9	29.8	55°	29,332	
25°	261	0° - 90°	814	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.0	35.8	65°	27,539	
35°	231	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.5	41.7	75°	24,933	
45°	194	0° - 180°	814	100%	5	63	54	47	62	54	47	60	52	47	Beam Angle: 112.3° Field Angle: 163.9°			85°	22,477	
55°	150				6	57	48	41	56	47	41	54	47	41						
65°	104				7	52	43	37	51	42	36	49	42	36						
75°	58				8	47	39	33	46	38	33	45	38	32						
85°	18				9	43	35	29	43	35	29	42	34	29						
90°	0				10	40	32	27	39	32	27	38	31	27						

JSF 5IN 07LM SWW5 - 35K Input Watts: 8.9, Delivered Lumens: 846, LPW: 95.1, S/MH: 1.25, Test No: ISF 231051P3



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf					20%						Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
						pc	80%		70%		50%									
	0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	302	0° - 30°	236	28%	0	119	119	119	116	116	111	111	111	111	6.0	8.4	17.9	0° 33,758		
5°	302	0° - 40°	383	45%	1	104	100	96	102	98	94	98	94	91	8.0	4.7	23.8	45° 31,827		
15°	293	0° - 60°	668	79%	2	91	84	78	89	82	77	85	80	75	10.0	3.0	29.8	55° 30,471		
25°	271	0° - 90°	846	100%	3	80	71	65	78	70	64	75	69	63	12.0	2.1	35.8	65° 28,609		
35°	240	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	1.5	41.7	75° 25,901		
45°	201	0° - 180°	846	100%	5	63	54	47	62	54	47	60	52	47	Beam Angle: 112.3° Field Angle: 163.9°			85° 23,350		
55°	156				6	57	48	41	56	47	41	54	47	41						
65°	108				7	52	43	37	51	42	36	49	42	36						
75°	60				8	47	39	33	46	38	33	45	38	32						
85°	18				9	43	35	29	43	35	29	42	34	29						
90°	0				10	40	32	27	39	32	27	38	31	27						



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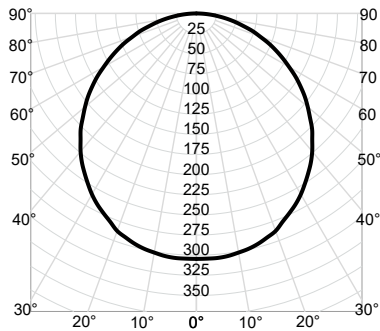
5" and 7" Round Downlight for JBox Installation



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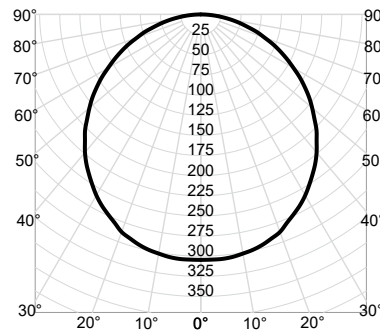
PHOTOMETRICS

JSF 5IN 07LM SWW5 - 40K Input Watts: 9.1, Delivered Lumens: 854, LPW: 93.8, S/MH: 1.25, Test No: ISF 231051P4



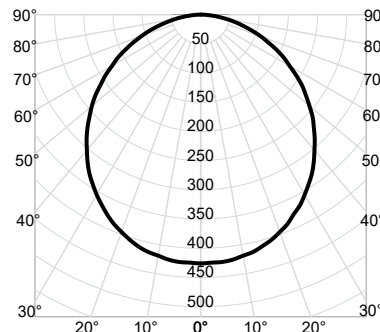
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)				
						pf											Mounting Height	Initial FC Center Beam	Beam Diameter				
0°		Zone	Lumens	% Fixture	pc	50%	30%	80%	70%	50%	30%	10%	50%	30%	10%				Average Luminance				
0°	305	0° - 30°	238	28%	0	119	119	119	116	116	116	111	111	111	111	6.0	8.5	17.9	0°	34,074			
5°	305	0° - 40°	386	45%	1	104	100	96	102	98	94	98	94	91	91	8.0	4.8	23.8	45°	32,125			
15°	296	0° - 60°	675	79%	2	91	84	78	89	82	77	85	80	75	75	10.0	3.0	29.8	55°	30,756			
25°	273	0° - 90°	854	100%	3	80	71	65	78	70	64	75	69	63	63	12.0	2.1	35.8	65°	28,876			
35°	242	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	54	14.0	1.6	41.7	75°	26,143			
45°	203	0° - 180°	854	100%	5	63	54	47	62	54	47	60	52	47	47				85°	23,568			
55°	158				6	57	48	41	56	47	41	54	47	41	41	Beam Angle: 112.3° Field Angle: 163.9°							
65°	109				7	52	43	37	51	42	36	49	42	36	36								
75°	60				8	47	39	33	46	38	33	45	38	32	32								
85°	18				9	43	35	29	43	35	29	42	34	29	29								
90°	0				10	40	32	27	39	32	27	38	31	27	27								

JSF 5IN 07LM SWW5 - 50K Input Watts: 9.2, Delivered Lumens: 854, LPW: 92.8, S/MH: 1.25, Test No: ISF 231051P5



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)				
						pf											Mounting Height	Initial FC Center Beam	Beam Diameter				
0°		Zone	Lumens	% Fixture	pc	50%	80%	30%	10%	50%	70%	30%	10%	50%	30%	10%				Average Luminance			
0°	305	0° - 30°	238	28%	0	119	119	119	116	116	116	111	111	111	111	111	6.0	8.5	17.9	0° 34,074			
5°	305	0° - 40°	386	45%	1	104	100	96	102	98	94	98	94	91	91	91	8.0	4.8	23.8	45° 32,125			
15°	296	0° - 60°	675	79%	2	91	84	78	89	82	77	85	80	75	75	75	10.0	3.0	29.8	55° 30,756			
25°	273	0° - 90°	854	100%	3	80	71	65	78	70	64	75	69	63	63	63	12.0	2.1	35.8	65° 28,876			
35°	242	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	54	54	14.0	1.6	41.7	75° 26,143			
45°	203	0° - 180°	854	100%	5	63	54	47	62	54	47	60	52	47	47	47				85° 23,568			
55°	158				6	57	48	41	56	47	41	54	47	41	41	41	Beam Angle: 112.3° Field Angle: 163.9°						
65°	109				7	52	43	37	51	42	36	49	42	36	36								
75°	60				8	47	39	33	46	38	33	45	38	32	32								
85°	18				9	43	35	29	43	35	29	42	34	29	29								
90°	0				10	40	32	27	39	32	27	38	31	27	27								

JSF 7IN 10LM SWW5 - 27K Input Watts: 12.0, Delivered Lumens: 1182, LPW: 98.5, S/MH: 1.24, Test No: ISF 23588P1



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)				
						pf											Mounting Height	Initial FC	Beam Diameter				
						pc												Center Beam					
0°		Zone	Lumens	% Fixture		50%	30%	10%	50%	30%	10%	50%	30%	10%				Average Luminance					
0°	426	0° - 30°	331	28%		0	119	119	119	116	116	116	111	111	111	6.0	11.8	16.9	0°	18,617			
5°	425	0° - 40°	538	45%		1	104	100	96	102	98	94	97	94	91	8.0	6.7	22.5	45°	16,934			
15°	410	0° - 60°	937	79%		2	91	84	78	89	83	77	85	80	75	10.0	4.3	28.2	55°	16,153			
25°	377	0° - 90°	1,182	100%		3	80	72	65	78	71	64	75	69	63	12.0	3.0	33.8	65°	14,891			
35°	332	90° - 180°	0	0%		4	71	62	55	69	61	55	67	60	54	14.0	2.2	39.5	75°	12,833			
45°	274	0° - 180°	1,182	100%		5	63	54	48	62	54	47	60	52	47				85°	10,029			
55°	212					6	57	48	42	56	47	41	54	47	41	Beam Angle: 109.3° Field Angle: 161.5°							
65°	144					7	52	43	37	51	42	37	49	42	36								
75°	76					8	47	39	33	46	38	33	45	38	32								
85°	20					9	43	35	29	43	35	29	42	34	29								
90°	0					10	40	32	27	39	32	27	38	31	27								



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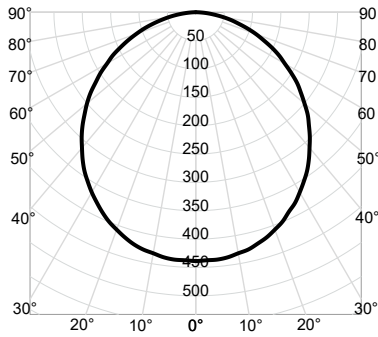
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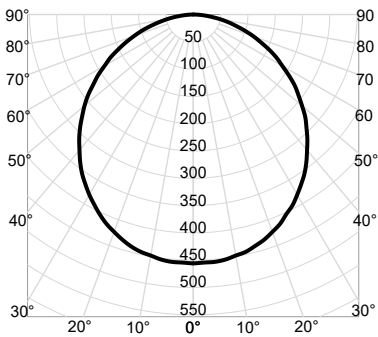
PHOTOMETRICS

JSF 7IN 10LM SWW5 - 30K Input Watts: 12.3, Delivered Lumens: 1218, LPW: 99.0, S/MH: 1.24, Test No: ISF 23588P2



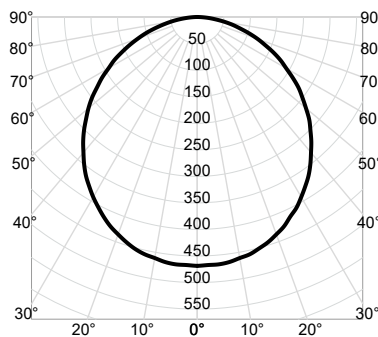
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf	80%			20%			50%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
	0°	Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	439	0° - 30°	341	28%	0	119	119	119	116	116	116	111	111	111	6.0	12.2	16.9	0°	19,176	
5°	438	0° - 40°	554	45%	1	104	100	96	102	98	94	97	94	91	8.0	6.9	22.5	45°	17,442	
15°	422	0° - 60°	966	79%	2	91	84	78	89	83	77	85	80	75	10.0	4.4	28.2	55°	16,637	
25°	388	0° - 90°	1,218	100%	3	80	72	65	78	71	64	75	69	63	12.0	3.0	33.8	65°	15,338	
35°	342	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	2.2	39.5	75°	13,218	
45°	282	0° - 180°	1,218	100%	5	63	54	48	62	54	47	60	52	47	Beam Angle: 109.3° Field Angle: 161.5°			85°	10,329	
55°	218				6	57	48	42	56	47	41	54	47	41						
65°	148				7	52	43	37	51	42	37	49	42	36						
75°	78				8	47	39	33	46	38	33	45	38	32						
85°	21				9	43	35	29	43	35	29	42	34	29						
90°	0				10	40	32	27	39	32	27	38	31	27						

JSF 7IN 10LM SWW5 - 35K Input Watts: 12.1, Delivered Lumens: 1265, LPW: 104.5, S/MH: 1.24, Test No: ISF 23588P3



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)		
						pf	80%			20%			50%				Mounting Height	Initial FC Center Beam	Beam Diameter		
0°		Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%				Average Luminance			
0°	456	0° - 30°	354	28%	0	119	119	119	116	116	116	111	111	111	6.0	12.7	16.9	0°	19,920		
5°	455	0° - 40°	575	45%	1	104	100	96	102	98	94	97	94	91	8.0	7.1	22.5	45°	18,120		
15°	439	0° - 60°	1,003	79%	2	91	84	78	89	83	77	85	80	75	10.0	4.6	28.2	55°	17,284		
25°	403	0° - 90°	1,265	100%	3	80	72	65	78	71	64	75	69	63	12.0	3.2	33.8	65°	15,933		
35°	355	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	2.3	39.5	75°	13,731		
45°	293	0° - 180°	1,265	100%	5	63	54	48	62	54	47	60	52	47	Beam Angle: 109.3° Field Angle: 161.5°					85°	10,731
55°	227				6	57	48	42	56	47	41	54	47	41							
65°	154				7	52	43	37	51	42	37	49	42	36							
75°	81				8	47	39	33	46	38	33	45	38	32							
85°	21				9	43	35	29	43	35	29	42	34	29							
90°	0				10	40	32	27	39	32	27	38	31	27							

JSF 7IN 10LM SWW5 - 40K Input Watts: 12.2, Delivered Lumens: 1301, LPW: 106.6, S/MH: 1.24, Test No: ISF 23588P4



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf					20%						Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
						pc	80%		70%		50%									
	0°	Zone	Lumens	% Fixture	pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	469	0° - 30°	364	28%	0	119	119	119	116	116	116	111	111	111	6.0	13.0	16.9	0°	20,479	
5°	468	0° - 40°	592	45%	1	104	100	96	102	98	94	97	94	91	8.0	7.3	22.5	45°	18,628	
15°	451	0° - 60°	1,031	79%	2	91	84	78	89	83	77	85	80	75	10.0	4.7	28.2	55°	17,768	
25°	415	0° - 90°	1,300	100%	3	80	72	65	78	71	64	75	69	63	12.0	3.3	33.8	65°	16,380	
35°	365	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	2.4	39.5	75°	14,116	
45°	301	0° - 180°	1,301	100%	5	63	54	48	62	54	47	60	52	47	Beam Angle: 109.3° Field Angle: 161.5°				85°	11,031
55°	233				6	57	48	42	56	47	41	54	47	41						
65°	158				7	52	43	37	51	42	37	49	42	36						
75°	84				8	47	39	33	46	38	33	45	38	32						
85°	22				9	43	35	29	43	35	29	42	34	29						
90°	0				10	40	32	27	39	32	27	38	31	27						



Juno SlimForm™ LED with Selectable CCT

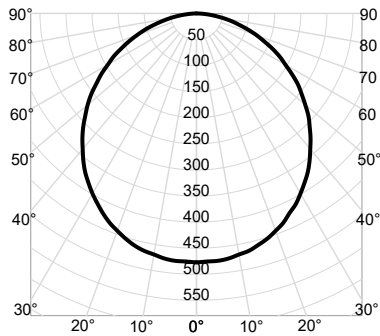
5" and 7" Round Downlight for JBox Installation



JSF

PHOTOMETRICS

JSF 7IN 10LM SSW5 - 50K Input Watts: 12.3, Delivered Lumens: 1324, LPW: 107.6, S/MH: 1.24, Test No: ISF 23588P5



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
						pf	80%			20%			50%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
	0°	Zone	Lumens	% Fixture	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	477	0° - 30°	370	28%	0	119	119	119	116	116	116	111	111	111	6.0	13.3	16.9	0°	20,851	
5°	476	0° - 40°	602	45%	1	104	100	96	102	98	94	97	94	91	8.0	7.5	22.5	45°	18,967	
15°	459	0° - 60°	1,050	79%	2	91	84	78	89	83	77	85	80	75	10.0	4.8	28.2	55°	18,091	
25°	422	0° - 90°	1,324	100%	3	80	72	65	78	71	64	75	69	63	12.0	3.3	33.8	65°	16,678	
35°	372	90° - 180°	0	0%	4	71	62	55	69	61	55	67	60	54	14.0	2.4	39.5	75°	14,373	
45°	307	0° - 180°	1,324	100%	5	63	54	48	62	54	47	60	52	47	Beam Angle: 109.3° Field Angle: 161.5°			85°	11,232	
55°	237				6	57	48	42	56	47	41	54	47	41						
65°	161				7	52	43	37	51	42	37	49	42	36						
75°	85				8	47	39	33	46	38	33	45	38	32						
85°	22				9	43	35	29	43	35	29	42	34	29						
90°	0				10	40	32	27	39	32	27	38	31	27						

Beam Angle: 109.3°
Field Angle: 161.5°