

JADRK SERIES

ARCHITECTURAL NEW AND RETROFIT 4", 6", 8" & 10" DEEP REGRESSED DOWNLIGHT

PRODUCT DESCRIPTION

The Jademar **JADRK Series** of LED commercial downlights have been upgraded 4th generation since 2013. Each engine works seamlessly with the all trims, making it truly modular. It is the ideal way to upgrade virtually any existing incandescent, CFL and HID commercial open frame rough-in section to high-performance LED illumination in a matter of minutes. Light engine is mounted directly to aluminum trim providing superior thermal management to ensure long life.

Spun aluminum reflector integrated with haze finish and white trim ring with shadow free. It is available in 4", 6", 8" and 10" with up to 80w which is designed and engineered for recessed applications, which is suitable for commercial and public places, such as shopping mall, hospital, airport, hotel lobby, etc.

STANDARD FEATURES

Construction:

- Twist-Lock Modular Design
- Aluminum housing acting as the heat sink to maximize life
- 18" Flex Cable Included Standard
- Trim Options Available: 4", 6", 8", 10"
- IC Rated

Optics:

- Spun aluminum reflector integrated with haze finish and white trim ring and Shadow free.
- Deeply regressed diffusing lens conceals the LEDs from direct view.

Electrical Parameters:

- **Wattage:** 80W: 80W/65W/50W
40W: 40W/27W/18W
27W: 27W/20W/14W
- LED Driver: Powered by Class 2 high efficiency LED driver, with a standard 1-10V dimming, which continuous dims to 10% that works with many types of controls.
- Tested Dimmer: Lutron® Diva-Dvtv, Leviton® IP-710-DL
- Operating Temperature: -28°F to 104°F. (-20°C~40°C)
- THD: <20%
- Power Factor: >0.9
- Input Voltage: CC 120-277VAC Internal driver
- CRI: >80 CRI (Standard)
- CCT: 3000K/3500K/4000K (CCT Selectable Options)
3000K/3500K/4000K (Static CCT Option)
- LED: Life Minimum 50,000 Hrs with 87.8% of lumen maintenance in 25 ambient temperature, in compliance with IES LM-80 testing measurements

Mounting:

- Provided with spring steel friction clips allowing for installation in a variety of commercial recessed open frame rough-in sections

Optional Emergency Option:

- Emergency Optional low voltage 120-277V emergency LED driver for lighting up to 120 minutes in event of power failure, that meets critical life-safety lighting requirements [100 lm/W - Output Power: 800 lm]

Approvals:

- Energy Star Listed
- Tested to IESNA LM-79 and LM-80



CASAMBI BubblyNet SILVAIR



SPECIFICATIONS

Trim Sizes: 4", 6", 8", and 10" Trim Options

Input Power: 80W/65W/50W
40W/27W/18W
27W/20W/14W

Efficacy: up to 85 lm/W

CCT Options: 3000K/3500K/4000K (CCT Selectable Options)
3000K/3500K/4000K (Static CCT Option)

CRI: CRI: >80 (Standard)

Input Voltage: CC 120-277VAC Internal driver

Dimming: 1-10V Dimming / 1% Dimming driver Option

Lifetime Based on TM21: L80 ≥50,000 Hrs.

Certifications & Compliance: UL Listed for Damp Locations

Warranty: 10 Years Limited Warranty

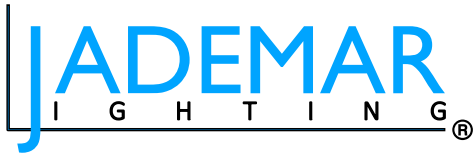
PRODUCT DIMENSIONS



Quotations: quotes@jademar.com
To place an order: orders@jademar.com
Tel: (305) 640.0465 | Fax: (305) 640.0468
WWW.JADEMAR.COM



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SPECIFICATION SUBMITTAL DETAIL

PROJECT NAME:

MODEL NUMBER:

DATE:

JADRK SERIES 4", 6", 8" & 10" DEEP REGRESSED ARCHITECTURAL NEW AND RETROFIT DOWNLIGHT

ORDERING INFORMATION / EXAMPLE: JADRK-4-27W-CPS-CB-NLC-EFC-D

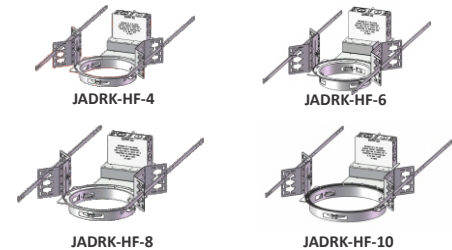
JADRK	Trim Size	Power Selectable	CCT	CRI	Control Options	Dimming	Other Options
Product Series	Trim Size	Power Selectable	CCT	CRI	Control Options	Dimming	Other Options
JADRK	4 4" Trim	27W 27W/20W/14W	CPS CCT Selectable Options: 3000K/3500K/4000K	Blank 80 CRI (Standard)	CB-NLC-EFC NLC: CASAMBI Mesh Fixture Controller SR-NLC-EFC NLC: Silvalux Mesh Fixture Controller BN-NLC-FC Bubblynet fixture controller CB-NLC-FC Casambi fixture controller SR-NLC-FC Silvalux fixture controller	D 1-10V Dimming 1PD 1% Dimming Driver Option	Blank Not BAA/BABA MC6-3W 3 wire 6ft -3/8"Metal/Flex Conduit, 1/2" quick connectors, #18 solid (600V) - (Black, White, Green, Violet, Grey) MC6-5W 5 wire 6ft -3/8"Metal/Flex Conduit, 1/2" quick connectors, #18 solid (600V) - (Black, White, Green, Violet, Grey) BAA Buy American Act*
	6 6" Trim	40W 40W/27W/18W	30K 3000K*				
	8 8" Trim	80W 80W/65W/50W	35K 3500K*				
	10 10" Trim		40K 4000K*				

*Applicable only for 6", 8" & 10"

*Selected SKUs Only

FIELD INSTALLED OPTIONS

Item Number	Description
JADRK-HF-4	4" New Construction Kit
JADRK-HF-6	6" New Construction Kit
JADRK-HF-8	8" New Construction Kit
JADRK-HF-10	10" New Construction Kit
JSP6	Spring Clips For 6"
JSP8	Spring Clips For 8"
JSP10	Spring Clips For 10"
EM8	8W Emergency Backup Battery Driver 120-347V Input, Output Voltage 170VDC, Inline/powers the drivers
EM15	15W Emergency Battery Backup Driver, 120-347V Input, Output Voltage 170VDC, Inline/powers the drivers
EM25	25W Emergency Battery Backup Driver, 120-347V Input, Output Voltage 170VDC, Inline/powers the drivers



LUMEN PERFORMANCE AND ELECTRICAL DATA

Model Number	JADRK-4-27W	JADRK-6-40W	JADRK-8-40W	JADRK-10-40W	JADRK-6-80W	JADRK-8-80W	JADRK-10-80W
Trim Size	4"	6"	8"	10"	6"	8"	10"
Selectable Wattage	27W/20W/14W	40W/27W/18W			80W/65W/50W		
CCT Options	3000K/3500K/4000K	3000K/3500K/4000K (CCT Selectable Options) 3000K/3500K/4000K (Static CCT Option)					
Efficacy (lm/W)	up to 85 lm/w						
Lumen Output (lm)	2025/1600/1200	3500/2300/1500			6800/5500/4200		
Input Voltage	CC 120-277VAC Internal driver						
Dimming	1-10V Dimming / 1% Dimming driver Option						
THD	<20%						
CRI	>80 (Standard)						
Power Factor	>0.9						
Lifetime Based on TM21	L80 ≥ 50, 000 hrs						
Certifications & Compliance	UL Listed / Rated for Damp Location / FCC						
Limited Warranty	10 Years						

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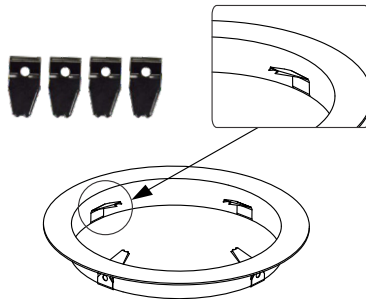


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MOUNTING ACCESSORIES & DIMENSIONS

STANDARD - CLIPS



SPRING CLIPS (OPTIONAL)

Designed for CES downlight fixation, this spring clip can be used to secure the light to the housing frame kit if the existing clips could not match the mounting diameters. Made of premium material for long time and durable use

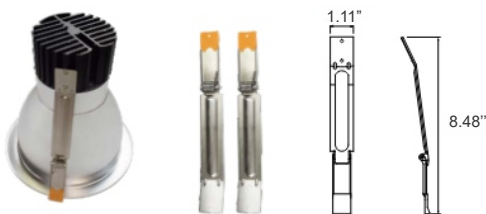
6inch

JSP6



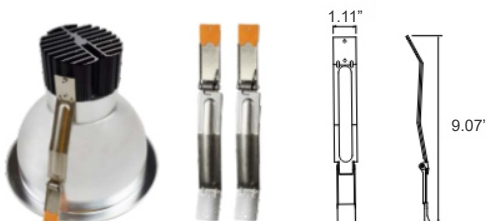
8inch

JSP8



10inch

JSP10



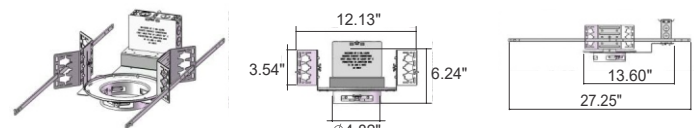
OPTIONAL NEW CONSTRUCTION FRAME KIT



The frame kit was specifically designed for the CES series, it delivers the perfect aperture for a tight, seamless fit. This minimizes the space and materials required for installation. Steel housing frames are suitable for new construction. They are available in 6inch, 8inch and 10inch.

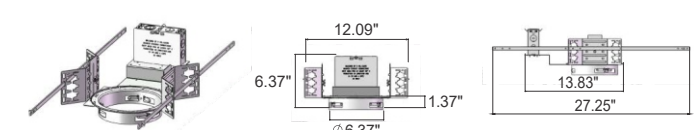
4inch

JADRK-HF-4



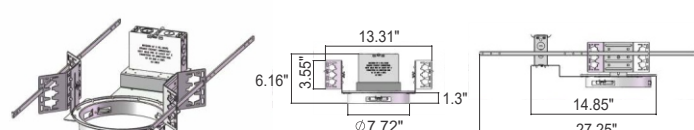
6inch

JADRK-HF-6



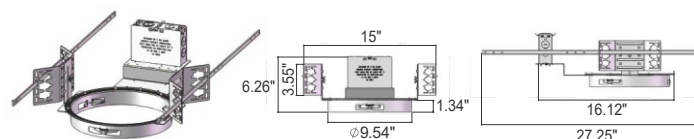
8inch

JADRK-HF-8



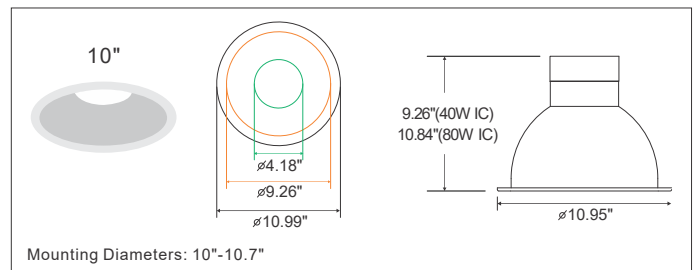
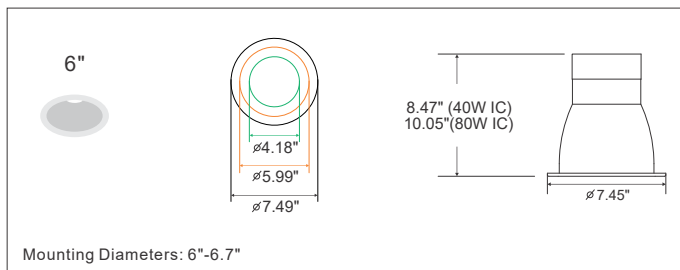
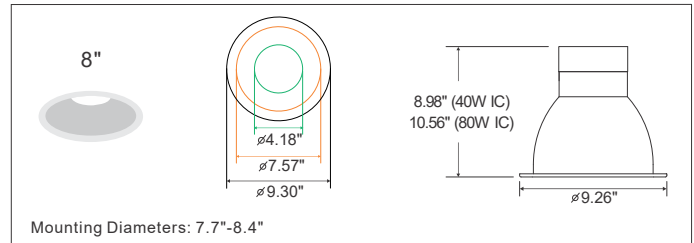
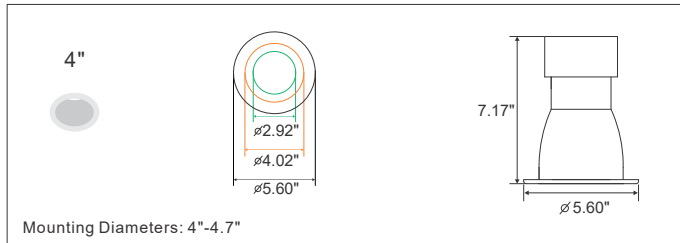
10inch

JADRK-HF-10



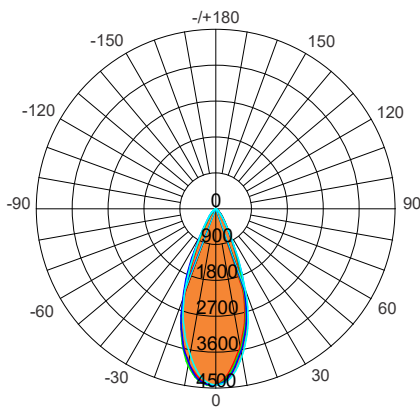


PRODUCT DIMENSIONS – MAXIMUM CEILING THICKNESS 1-1/4"



PHOTOMETRY

4"-27W



Lumens: 2277.5 Lm
Watts: 25.99 W
LPW: 87.64 Lm/W
CCT: 3500K

UNIT: cd
— C0/180,38.5°
— C30/210,39.6°
— C60/240,40.5°
— C90/270,40.5°

Zonal Flux Diagram

T	C0	C45	C90	C135	C180
10	3526	3614	3773	3777	3951
20	1840	2066	2173	2290	2289
30	642.7	620.7	633.2	645.9	650.1
40	267.3	232.0	212.4	186.8	208.2
50	104.0	90.10	77.47	62.39	72.44
60	39.11	33.57	28.98	23.40	26.49
70	13.31	12.29	11.50	9.398	10.05
80	2.398	2.615	3.295	2.316	2.221
90	0.1544	0.0725	0.0700	0.0748	0.0755
100	0.0794	0.0794	0.0934	0.0864	0.0794
110	0.0794	0.1074	0.1401	0.1260	0.1335
120	0.1587	0.2077	0.2662	0.2522	0.2522
130	0.3638	0.4527	0.5326	0.5250	0.4906
140	1.012	1.181	1.243	1.153	1.084
150	2.687	2.862	2.845	2.633	2.519
160	4.998	5.053	5.034	4.790	4.666
170	7.029	7.112	7.158	6.916	6.752
180	8.081	8.177	8.179	8.207	8.086
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

T	φ total
0-10	386.8
10-20	1227
20-30	1816
30-40	2068
40-50	2187
50-60	2240
60-70	2262
70-80	2270
80-90	2271
90-100	2271
100-110	2271
110-120	2271
120-130	2272
130-140	2272
140-150	2273
150-160	2275
160-170	2277
170-180	2278
UNIT: lm	

Luminance cd/(m2)

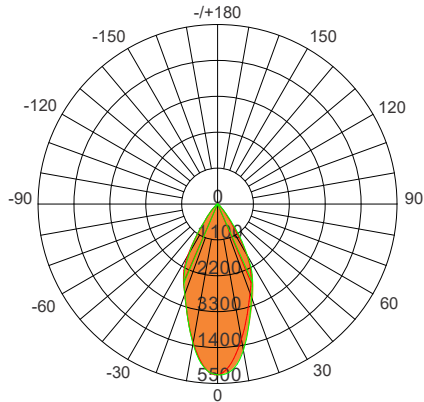
G(DEG)	C0/180	C90/270
85	863	1168
80	1748	2402
75	3276	3333
70	4927	4256
65	7042	5477
60	9902	7336
55	14117	10335
50	20479	15256
45	30007	23078





PHOTOMETRY

8"-40W



Lumens: 3454.8 Lm
Watts: 40 W
LPW: 86.37 Lm/W
CCT: 3000K

UNIT: cd
C0/180,23.6,23.1
C90/270,23.2,24.0

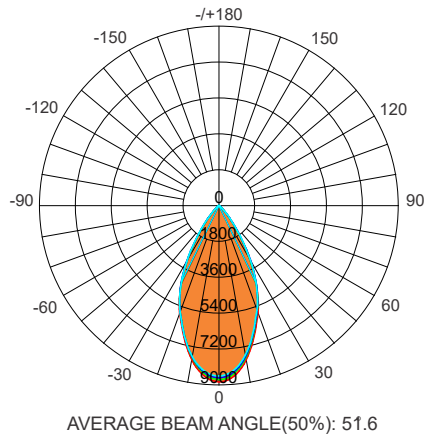
Zonal Flux Diagram

T	C0	C45	C90	C135	C180
10	4207	4415	4558	4486	4303
20	2908	2989	3048	3017	2951
30	1783	1845	1841	1886	1860
40	404.4	449.3	484.6	473.0	456.1
50	86.32	93.34	102.6	97.79	98.80
60	28.65	31.97	35.80	31.96	31.76
70	11.68	13.27	14.63	12.86	12.69
80	4.325	4.949	5.424	4.908	4.774
90	0.0042	0.0048	0.0057	0.0085	0.0064
100	0.0030	0.0028	0.0022	0.0028	0.0042
110	0.0069	0.0047	0.0056	0.0044	0.0083
120	0.0130	0.0125	0.0130	0.0125	0.0155
130	0.0296	0.0321	0.0255	0.0322	0.0305
140	0.0873	0.0858	0.0741	0.0856	0.0737
150	0.1587	0.1440	0.1159	0.1539	0.1406
160	0.1934	0.2072	0.1962	0.2238	0.2125
170	0.1596	0.2089	0.2004	0.2279	0.2055
180	0.1087	0.1105	0.1023	0.0966	0.1065
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

T	φ total
0-10	456.9
10-20	1464
20-30	2576
30-40	3195
40-50	3372
50-60	3423
60-70	3443
70-80	3452
80-90	3454
90-100	3454
100-110	3454
110-120	3455
120-130	3455
130-140	3455
140-150	3455
150-160	3455
160-170	3455
170-180	3455
UNIT: lm	

8"-80W



Lumens: 6288.5 Lm
Watts: 80 W
LPW: 78.61Lm/W
CCT: 3000K

UNIT: cd
C0/180,51.0°
C30/210,51.4°
C60/240,51.9°
C90/270,52.0°

Zonal Flux Diagram

T	C0	C45	C90	C135	C180
10	7872	7743	7625	7552	7858
20	5741	5648	5579	5538	5777
30	3072	3196	3154	3133	3168
40	863.6	934.3	953.4	979.2	923.3
50	154.7	156.7	165.2	184.7	180.9
60	31.91	32.07	35.00	42.64	40.87
70	11.69	11.21	11.99	13.96	13.43
80	4.327	4.261	4.534	4.810	4.632
90	0.1629	0.1966	0.1448	0.1684	0.1504
100	0.1616	0.1471	0.1497	0.1443	0.1623
110	0.2522	0.2166	0.2029	0.2166	0.2211
120	0.5132	0.4694	0.4464	0.4604	0.4604
130	1.495	1.490	1.513	1.454	1.427
140	4.095	4.071	4.131	3.953	4.054
150	8.045	7.940	7.982	7.733	7.987
160	12.49	12.36	12.22	11.98	12.40
170	16.29	16.02	15.74	15.54	16.30
180	17.76	17.60	17.17	17.10	17.83
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

T	φ total
0-10	775.2
10-20	2630
20-30	4656
30-40	5823
40-50	6169
50-60	6241
60-70	6261
70-80	6269
80-90	6271
90-100	6271
100-110	6272
110-120	6272
120-130	6273
130-140	6275
140-150	6278
150-160	6283
160-170	6287
170-180	6288
UNIT: lm	

Luminance cd/(m2)

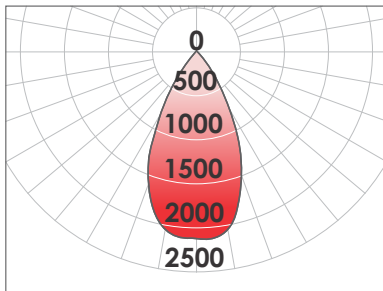
G(DEG)	C0/180	C90/270
85	466	681
80	880	923
75	1033	1049
70	1207	1239
65	1530	1617
60	2255	2474
55	4114	4540
50	8505	9079
45	18529	21493





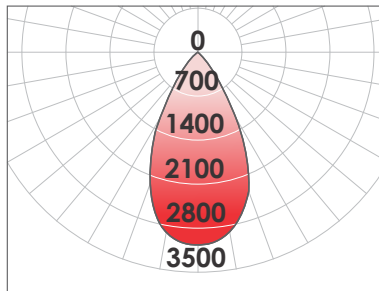
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

JADRK-6-18W



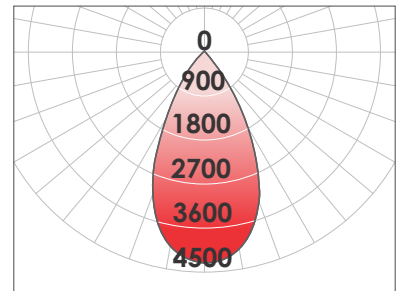
AVERAGE BEAM ANGLE(50%): 52.2°

JADRK-6-27W



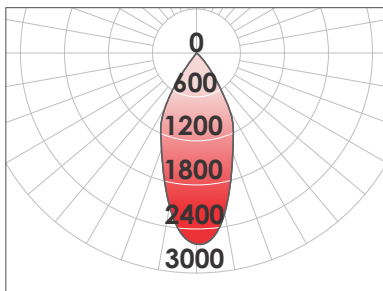
AVERAGE BEAM ANGLE(50%): 52.4°

JADRK-6-40W



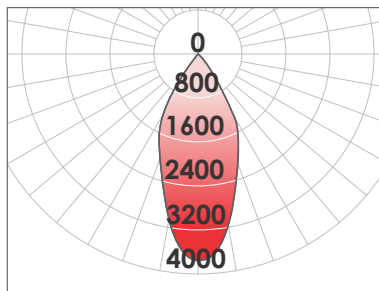
AVERAGE BEAM ANGLE(50%): 52.6°

JADRK-8-18W



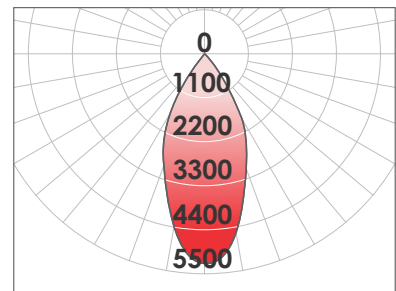
AVERAGE BEAM ANGLE(50%): 44.1°

JADRK-8-27W



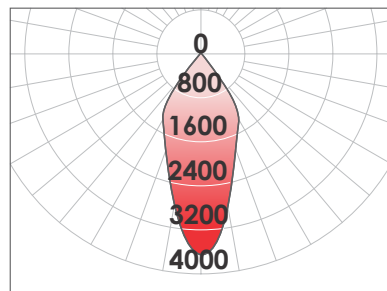
AVERAGE BEAM ANGLE(50%): 44.6°

JADRK-8-40W



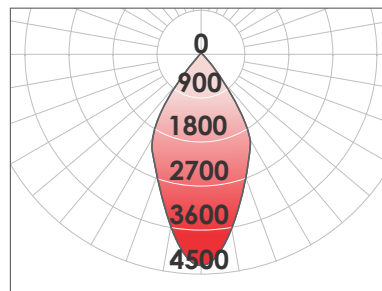
AVERAGE BEAM ANGLE(50%): 46.9°

JADRK-10-27W



AVERAGE BEAM ANGLE(50%): 36.4°

JADRK-10-40W



AVERAGE BEAM ANGLE(50%): 54.9°

