

JUNO

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

6" LED RETROFIT TRIM

DOWNLIGHT RETROFIT FOR 6" COMMERCIAL ROUGH-IN SECTIONS

JCLR6



White Trim

Haze Trim

PRODUCT DESCRIPTION

Energy efficient LED retrofit module fits into installed 6" non-IC commercial recessed incandescent, CFL or H.I.D. rough-in sections • If installed where insulation is present, the insulation must be pulled back 3" from all sides of the retrofit installation • Replaces CFL lamps totaling 42W or greater, producing up to 2400 lumens typical at 27.5W • Dimmable • LED retrofit module is designed to provide 50,000 hours of life • 5 year warranty.

PRODUCT SPECIFICATIONS

LED Downlight Retrofit Trim Spun aluminum reflector and separate non-metallic trim ring with shadow free, knife edge design • All-in-one design where LED light engine is mounted directly to trim • Quick disconnect in j-box allows for easy wiring of retrofit conduit whip assembly without reflector interference • Provided with conduit whip and connector to mount to 1/2" trade size knockout in junction box for ease of installation into existing rough-in sections • Provided with spring steel friction clips for mounting.

LED Light Engine Replaceable light engine is mounted directly to aluminum trim providing superior thermal management to ensure long life • LEDs are binned within a 3-step MacAdam Ellipse exceeding ENERGY STAR® requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 3500K or 4000K LED color temperatures • 80 or 90 CRI minimum.

LED Driver Choice of dedicated 120 volt driver, universal voltage driver that accommodates input voltages from 120-277 volts AC at 50/60Hz or 347V driver • Power factor > 0.9 at 120V input • 120 volt only dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Universal voltage and 347V driver is dimmable with the use of most 0-10V wall dimmers • For a list of compatible dimmers, see [JUNOJCLR-DIM](#).

Electrical Connections Trim includes conduit whip and connector to attach directly to 1/2" trade size knockout in junction box • All electrical connectors and hardware provided for easy installation after fluorescent socket and ballast are removed from rough-in sections.

Trim Spun aluminum trim with white or haze finish • Deeply regressed diffusing lens conceals the LEDs from direct view.

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

Labels ENERGY STAR® Qualified • UL and cUL classified for use with most standard UL listed 6" non-IC commercial rough-in sections; see below for specific compatibility requirements • Damp location.

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

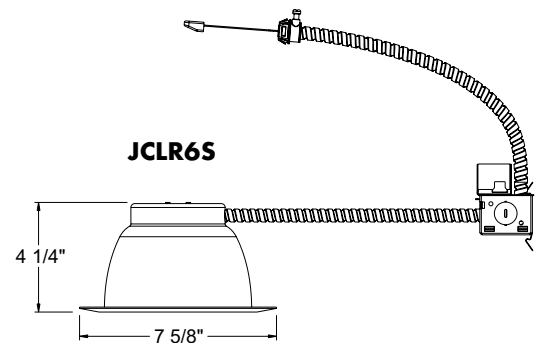
Product specifications subject to change without notice.

INSTALLATION

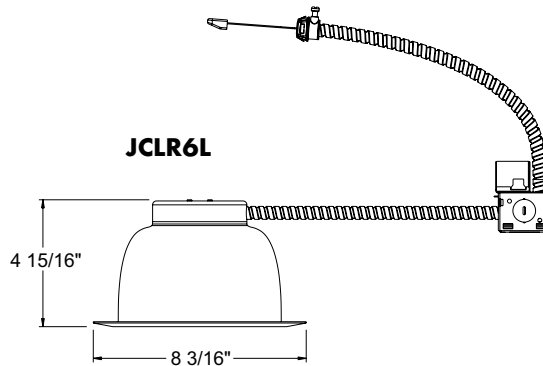
The JCLR6 retrofit trim is provided with spring steel friction clips allowing for installation in a variety of 6" commercial recessed open frame rough-in sections with a ceiling thickness ranging from 1/2" to 1 1/8". Rough-in section inside diameter compatibility range:

JCLR6S: 6" – 6 1/2", **JCLR6L:** 6 5/8" – 7 1/8".

DIMENSIONS



JCLR6S



JCLR6L

COMPATIBLE HOUSINGS FOR JCLR6S INCLUDE, BUT NOT LIMITED TO (Compatibility Range: 6" - 6 1/2")

Portfolio® Housings:	HD6, LD6A
Lightlier® Housings:	S6132BU, C639MH, C670MH, B600
Hubbell® Housings:	LF6CF, LF6CFH, LF6MH, LF6INC, CFT6, CFQ6, CFT632, CFR6, RHD6, INC600 79X

COMPATIBLE HOUSINGS FOR JCLR6L INCLUDE, BUT NOT LIMITED TO (Compatibility Range: 6 5/8" - 7 1/8")

Juno® Housings:	CV6, CH6, M6, M6-E, MX6, MX6-E, TC906, TC906H, TC920
Indy™ Housings:	C6V, C6H, M6, A6, P6
Lithonia® Housings:	CCR62, 6VF, 6HF, 6VH, 6VI, LF6, LP6H, LP6F, LP6
Gotham® Housings:	6": AFV, AF, AH, A (GRS 6), LG
Halo® Housings:	PD6 Series
Lightlier® Housings:	1100FTUES, 1101F18U, 1101F2642U, 1101HDED, 1101HDP, 1102P1
Capri/Omega® Housings:	CM6-FV26/32/42, OM6 Series

6" LED RETROFIT TRIM

DOWNLIGHT RETROFIT FOR 6" COMMERCIAL ROUGH-IN SECTIONS

JCLR6

Ordering Information

Example: **JCLR6S-15-927K1-HZ**

Series	Delivered Lumens		CRI/Color Temperature		Voltage		Finish		
JCLR6S	15	1500L	927K	2700K 90CRI	935K	3500K 90CRI	1	120V	HZ Haze
JCLR6L	20	2000L	930K	3000K 90CRI	940K	4000K 90CRI	U	Universal	WH White
	18	1800L	827K	2700K 80CRI	835K	3500K 80CR	3	347V	
	24	2400L	830K	3000K 80CRI	840K	4000K 80CR			

Note: 1500L and 2000L options must be ordered with 90CRI;
1800L and 2400L options must be ordered with 80CRI.

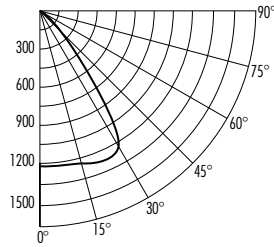
ENGINEERING DATA

	Dedicated 120V (1)		Universal Voltage (U)		Dedicated 347V (3)	
	1500L/1800L	2000L/2400L	1500L/1800L	2000L/2400L	1500L/1800L	2000L/2400L
Lumens	1500L/1800L	2000L/2400L	1500L/1800L	2000L/2400L	1500L/1800L	2000L/2400L
Input Voltage	120V	120V	120-277V	120-277V	347V	347V
Input Power	20.3W (±5%)	27.5W (±5%)	19.9W (±5%)	27.3W (±5%)	21.8W (±5%)	27.9W (±5%)
Input Current	500mA	650mA	470mA	650mA	500mA	650mA
Frequency	50/60Hz		50/60Hz		50/60Hz	
Power Factor	>.90		>.90		>.90	
CRI	80/90CRI		80/90CRI		80/90CRI	
CCT	2700K, 3000K, 3500K, 4000K		2700K, 3000K, 3500K, 4000K		2700K, 3000K, 3500K, 4000K	

JCLR6

PHOTOMETRIC REPORT

Test Report#: PT07162701R
 Catalog No: JCLR6S-18-835KU-HZ
 Luminaire Spacing Criteria: 1.34
 Luminaire LPW: 97



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1226
5	1227
15	1278
25	1344
35	919
45	247
55	54
65	11
75	3
85	0
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room)

Ceiling 80%, Walls 50%, Floors 20%

Spacing	RCR1	RCR3	RCR5
4'	132	112	95
5'	85	72	61
6'	59	50	42
7'	48	40	34
8'	38	32	27
9'	29	24	21
10'	21	18	15

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	1094	N/A	56.9
0-40°	1651	N/A	85.8
0-60°	1908	N/A	99.2
0-90°	1924	N/A	100.0

INITIAL FOOTCANDLES (One Unit: 19.9W, 72.6° Beam)

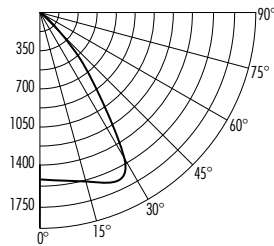
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	76.6	5.9
6'	34.1	8.8
8'	19.2	11.8
10'	12.3	14.7

LUMINANCE (Average cd/m²)

Angle in Degrees	Average 0-90°
45°	19107
55°	5163
65°	1455
75°	567
85°	0

PHOTOMETRIC REPORT

Test Report#: PT07162702R
 Catalog No: JCLR6S-24-835KU-HZ
 Luminaire Spacing Criteria: 1.34
 Luminaire LPW: 90



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1557
5	1558
15	1625
25	1709
35	1174
45	323
55	72
65	15
75	4
85	0
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room)

Ceiling 80%, Walls 50%, Floors 20%

Spacing	RCR1	RCR3	RCR5
4'	169	143	122
5'	108	92	78
6'	75	64	54
7'	61	51	44
8'	48	41	35
9'	37	31	26
10'	27	23	19

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	1391	N/A	56.5
0-40°	2103	N/A	85.5
0-60°	2440	N/A	99.1
0-90°	2461	N/A	100.0

INITIAL FOOTCANDLES (One Unit: 27.4W, 72.8° Beam)

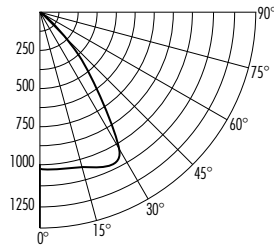
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	97.3	5.9
6'	43.3	8.8
8'	24.3	11.8
10'	15.6	14.7

LUMINANCE (Average cd/m²)

Angle in Degrees	Average 0-90°
45°	25011
55°	6835
65°	1935
75°	785
85°	0

PHOTOMETRIC REPORT

Test Report#: PT07162701R
 Catalog No: JCLR6S-15-935KU-HZ
 Luminaire Spacing Criteria: 1.34
 Luminaire LPW: 80



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1012
5	1013
15	1055
25	1109
35	758
45	204
55	45
65	9
75	2
85	0
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room)

Ceiling 80%, Walls 50%, Floors 20%

Spacing	RCR1	RCR3	RCR5
4'	109	92	78
5'	70	59	50
6'	49	41	35
7'	39	33	28
8'	31	26	22
9'	24	20	17
10'	17	15	13

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	903	N/A	56.9
0-40°	1362	N/A	85.8
0-60°	1575	N/A	99.2
0-90°	1588	N/A	100.0

INITIAL FOOTCANDLES (One Unit: 19.9W, 72.6° Beam)

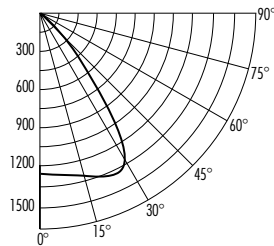
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	63.3	5.9
6'	28.1	8.8
8'	15.8	11.8
10'	10.1	14.7

LUMINANCE (Average cd/m²)

Angle in Degrees	Average 0-90°
45°	15768
55°	4261
65°	1201
75°	468
85°	0

PHOTOMETRIC REPORT

Test Report#: PT07162702R
 Catalog No: JCLR6S-20-935KU-HZ
 Luminaire Spacing Criteria: 1.34
 Luminaire LPW: 74



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1285
5	1286
15	1341
25	1410
35	969
45	266
55	59
65	12
75	3
85	0
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room)

Ceiling 80%, Walls 50%, Floors 20%

Spacing	RCR1	RCR3	RCR5
4'	140	118	100
5'	89	76	64
6'	62	52	45
7'	50	42	36
8'	40	34	29
9'	30	26	22
10'	22	19	16

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	1148	N/A	56.5
0-40°	1735	N/A	85.5
0-60°	2014	N/A	99.1
0-90°	2031	N/A	100.0

INITIAL FOOTCANDLES (One Unit: 27.4W, 72.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	80.3	5.9
6'	35.7	8.8
8'	20.1	11.8
10'	12.9	14.7

LUMINANCE (Average cd/m²)

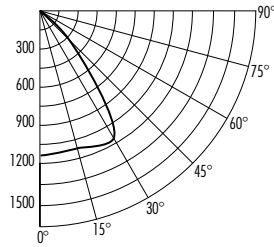
Angle in Degrees	Average 0-90°
45°	20640
55°	5641
65°	1597
75°	648
85°	0



JCLR6

PHOTOMETRIC REPORT

Test Report#: PT07162705R
 Catalog No: JCLR6L-18-835KU-HZ
 Luminaire Spacing Criteria: 1.32
 Luminaire LPW: 95



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1157
5	1154
15	1145
25	1171
35	846
45	305
55	104
65	32
75	9
85	1
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room)

Ceiling 80%, Walls 50%, Floors 20%

Spacing	RCR1	RCR3	RCR5
4'	140	107	91
5'	90	69	58
6'	62	48	40
7'	50	39	33
8'	40	30	26
9'	31	23	20
10'	22	17	15

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	976	N/A	51.8
0-40°	1498	N/A	79.5
0-60°	1840	N/A	97.6
0-90°	1885	N/A	100.0

INITIAL FOOTCANDLES (One Unit: 19.9W, 74.4° Beam)

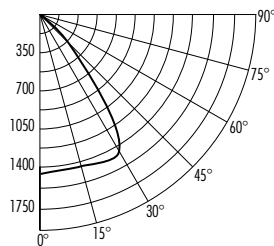
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	72.3	6.1
6'	32.1	9.1
8'	18.1	12.1
10'	11.6	15.2

LUMINANCE (Average cd/m²)

Angle in Degrees	Average 0-90°
45°	23662
55°	9953
65°	4165
75°	1962
85°	583

PHOTOMETRIC REPORT

Test Report#: PT07162706R
 Catalog No: JCLR6L-24-835KU-HZ
 Luminaire Spacing Criteria: 1.32
 Luminaire LPW: 88



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1477
5	1473
15	1462
25	1496
35	1084
45	396
55	136
65	42
75	12
85	1
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room)

Ceiling 80%, Walls 50%, Floors 20%

Spacing	RCR1	RCR3	RCR5
4'	165	138	116
5'	105	88	74
6'	73	61	52
7'	59	50	42
8'	47	39	33
9'	36	30	25
10'	26	22	19

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	1246	N/A	51.5
0-40°	1916	N/A	79.2
0-60°	2358	N/A	97.5
0-90°	2418	N/A	100.0

INITIAL FOOTCANDLES (One Unit: 27.4W, 74.5° Beam)

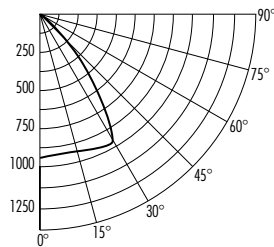
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	92.3	6.1
6'	41.0	9.1
8'	23.1	12.2
10'	14.8	15.2

LUMINANCE (Average cd/m²)

Angle in Degrees	Average 0-90°
45°	30659
55°	12963
65°	5446
75°	2594
85°	906

PHOTOMETRIC REPORT

Test Report#: PT07162705R
 Catalog No: JCLR6L-15-935KU-HZ
 Luminaire Spacing Criteria: 1.32
 Luminaire LPW: 78



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	955
5	952
15	945
25	966
35	699
45	252
55	86
65	27
75	8
85	1
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room)

Ceiling 80%, Walls 50%, Floors 20%

Spacing	RCR1	RCR3	RCR5
4'	106	88	75
5'	68	57	48
6'	47	39	33
7'	38	32	27
8'	30	25	21
9'	23	19	16
10'	17	14	12

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	805	N/A	51.8
0-40°	1237	N/A	79.5
0-60°	1518	N/A	97.6
0-90°	1556	N/A	100.0

INITIAL FOOTCANDLES (One Unit: 19.9W, 74.4° Beam)

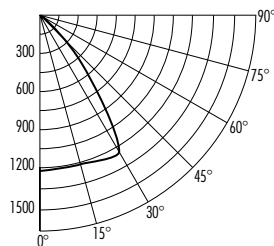
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	59.7	6.1
6'	26.5	9.1
8'	14.9	12.1
10'	9.6	15.2

LUMINANCE (Average cd/m²)

Angle in Degrees	Average 0-90°
45°	19527
55°	8214
65°	3437
75°	1619
85°	481

PHOTOMETRIC REPORT

Test Report#: PT07162706R
 Catalog No: JCLR6L-20-935KU-HZ
 Luminaire Spacing Criteria: 1.32
 Luminaire LPW: 73



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1219
5	1215
15	1207
25	1234
35	895
45	327
55	112
65	35
75	10
85	1
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room)

Ceiling 80%, Walls 50%, Floors 20%

Spacing	RCR1	RCR3	RCR5
4'	136	114	96
5'	87	73	61
6'	60	50	43
7'	49	41	35
8'	39	32	27
9'	30	25	21
10'	22	18	15

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	1029	N/A	51.5
0-40°	1581	N/A	79.2
0-60°	1946	N/A	97.5
0-90°	1996	N/A	100.0

INITIAL FOOTCANDLES (One Unit: 27.4W, 74.5° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	76.2	6.1
6'	33.9	9.1
8'	19.0	12.2
10'	12.2	15.2

LUMINANCE (Average cd/m²)

Angle in Degrees	Average 0-90°
45°	25301
55°	10697
65°	4494
75°	2140
85°	748

