

JUNO®

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

2" IC 600 AND 1000 LUMENS LED ROUND DOWNLIGHT CONE

2CPNC G2 DC CHICAGO PLENUM



PRODUCT DESCRIPTION

2 inch aperture recessed downlight approved for City of Chicago Environmental Air (CCEA) • IC rated for insulated or non-insulated applications • Luminaire produces up to 1000 lumens and is available with optical distributions approximating that of 75W MR16 halogen lamps • Designed to provide 50,000 hours of life • 5 year limited warranty on LED Components • CCEA marking per the electrical code specifications of the City of Chicago, commonly referred to as "Chicago Plenum".

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury, RoHS compliant
- Comparable light output up to a 75W MR16 halogen lamp

PRODUCT SPECIFICATIONS

LED Light Engine Exceptional fixture to fixture color consistency within a 3-step MacAdam ellipse • 2700K, 3000K, 3500K, and 4000K color temperatures are available with 80 CRI or 90 CRI minimum.

Modular Optics Available with field interchangeable optics in 18° Spot, 24° Narrow Flood, or 40° Flood distributions.

Aesthetic Trim Trim features die cast beveled knife edge trim ring for clean ceiling interface available in white, black, satin nickel, or brushed bronze • Spun aluminum reflectors are available in clear, haze, wheat haze, black and white finishes.

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 • Dedicated 120 volt driver (120) is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage dimmers • Universal voltage driver (MVOLT) is dimmable with the use of most 0-10V protocol dimmers • For a list of compatible dimmers, see [JUNO2ING2-DIM](#).

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

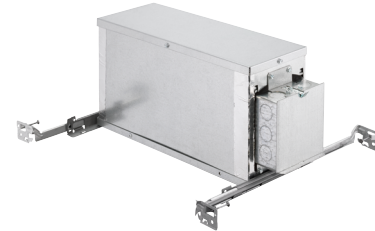
Labels CCEA Marking: U.L. listed for use in environment air spaces other than ducts and plenums per the Electrical Code specifications of the City of Chicago • ENERGY STAR® Certified • 90CRI fixtures are certified to the high efficacy requirements of California T24 JA8-2016 • Meets energy code Air Leakage requirements per ASTM E283 • UL and cUL listed for wet locations • Compatible with spray foam insulation with an R-value of 3.2 per inch or less.

Junction Box Includes (7) 1/2" and (1) 5/8" knock-outs equipped with pryout slots • Push-in electrical connectors for field connections.

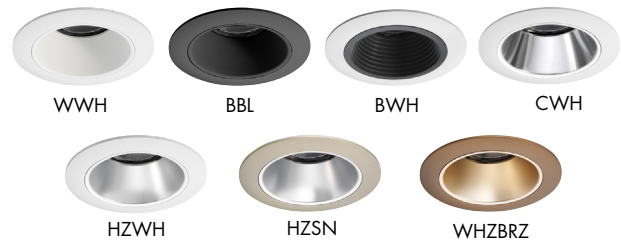
Mounting Designed for use in IC (insulated ceiling) or NON-IC new construction thicknesses from 1/2" to 1" • For thicker ceilings up to 1 1/2", order 2JCTA150 • 2CPNC requires 2x8 construction • LED driver and trim installs directly into 2CPNC housing, with provided conduit connector.

Real Nail 3 Bar Hangers Chicago Plenum new construction housing, 2CPNC available with patented telescoping Real Nail®3 bar hanger system which permits quick placement of housing anywhere with 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 • Design covered under US Patent D552,969.

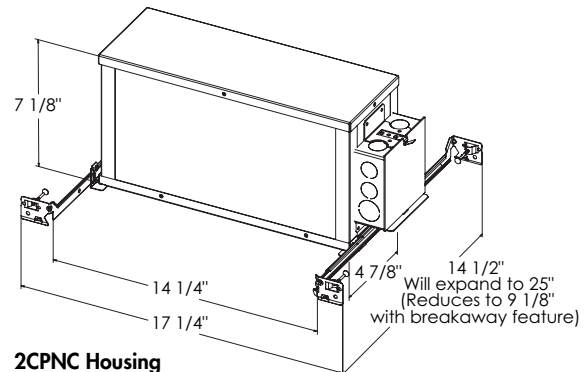
Specifications subject to change without notice.



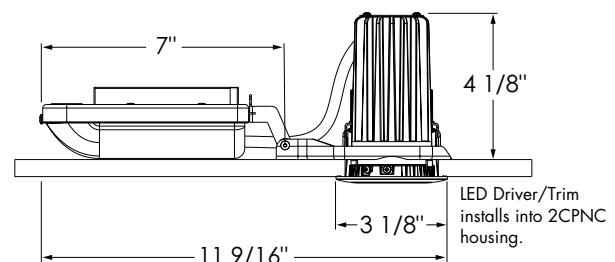
Downlight Cone Finishes



DIMENSIONS



2CPNC Housing



2 5/8" CEILING CUTOUT
2" APERTURE

2" IC 600 AND 1000 LUMENS LED ROUND DOWNLIGHT CONE

2CPNC G2 DC CHICAGO PLENUM

ENGINEERING DATA (600L)

	Dedicated 120V (120)		Universal Voltage (MVOLT)	
Voltage	120	120	277	
Input Power	7.5 (±5%)	7.2	7.5 (±5%)	
Input Current	.06	.06	.03	
Frequency	50/60Hz	50/60Hz		
Power Factor	>0.9	>0.9	>0.9	

ENGINEERING DATA (1000L)

	Dedicated 120V (120)		Universal Voltage (MVOLT)	
Voltage	120	120	277	
Input Power	11.5 (±5%)	10.9	11.4 (±5%)	
Input Current	.10	.09	.04	
Frequency	50/60Hz	50/60Hz		
Power Factor	>0.9	>0.9	>0.9	

ORDERING INFORMATION 2CPNC HOUSING, DRIVER AND TRIM SHIP IN SAME CARTON.

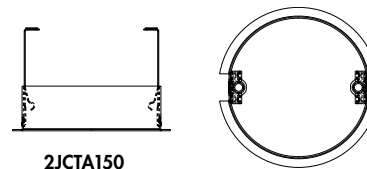
Series	Generation	Trim Designation	Lumens	Color Temperature	CRI	Distribution
2CPNC 2" Chicago Plenum New Construction	G2 Generation 2	DC Downlight Cone	06LM 600 Nominal Lumens	27K 2700K	80CRI 80+ CRI	FL Flood
			10LM 1000 Nominal Lumens	30K 3000K	90CRI 90+ CRI	NFL Narrow Flood
				35K 3500K		SP Spot
				40K 4000K		

Voltage	Driver	Trim Finish
120 120V	FRPC Forward/Reverse Phase Cut	CWH Clear Alzak Reflector, White Trim Ring
MVOLT Multi-Volt(120-277V)	ZT 0-10V Dimming	BBL Black Reflector, Black Trim Ring
		HZWH Haze Reflector, White Trim Ring
		BWH Black Reflector, White Trim Ring
		WHZBRZ Wheat Haze Reflector, Bronze Trim Ring
		WWH White Reflector, White Trim Ring
		HZSN Haze Reflector, Satin Nickel Trim Ring

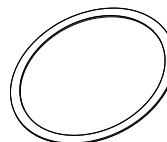
Note: 120V must be ordered with FRPC.
MVOLT must be ordered with ZT.

ACCESSORIES

Catalog No.	Description
2JCTA150	Thick Ceiling adapter for 1" - 1 1/2" thick ceiling
2DTCA	2" Drop Tile Ceiling Adapter
LEDOPTIC2 SP	18° Spot Optic
LEDOPTIC2 NFL	24° Narrow Flood Optic
LEDOPTIC2 FL	40° Flood Optic



2JCTA150



2DTCA

2" IC 600 AND 1000 LUMENS LED ROUND DOWNLIGHT CONE

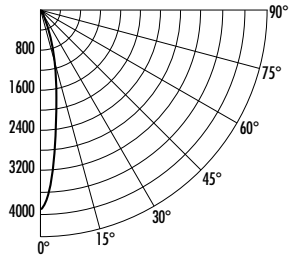
2CPNC G2 DC CHICAGO PLENUM

PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report#: PT07162131
Catalog No: 2LEDTRIM G2 DC 35K 80CRI
SP CWH (600L), Clear Cone
with Spot Optic

Luminaire Spacing Criteria: 0.34
Luminaire LPW: 103



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3972
5	3449
15	1007
25	318
35	53
45	12
55	2
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60" room)
Reflectances: Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4'	55	50	46
5'	35	32	29
6'	24	22	20
7'	20	18	17
8'	16	14	13
9'	12	11	10
10'	9	8	7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	718	N/A	92.8
0-40°	762	N/A	98.5
0-60°	774	N/A	100.0
0-90°	774	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 7.5W, 19.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	248.3	1.4
6'	110.3	2.1
8'	62.1	2.8
10'	39.7	3.5
12'	27.6	4.1

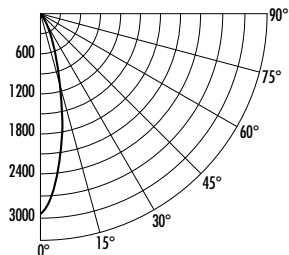
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	6383
55°	1455
65°	0
75°	0
85°	0

PHOTOMETRIC REPORT

Test Report#: PT07162136
Catalog No: 2LEDTRIM G2 DC 35K 80CRI
NFL CWH (600L), Clear Cone
with Narrow Flood Optic

Luminaire Spacing Criteria: 0.42
Luminaire LPW: 100



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2963
5	2681
15	1032
25	344
35	64
45	11
55	3
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60" room)
Reflectances: Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4'	53	48	43
5'	34	30	28
6'	23	21	19
7'	19	17	16
8'	15	14	12
9'	11	10	9
10'	8	8	7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	686	N/A	91.8
0-40°	735	N/A	98.3
0-60°	747	N/A	100.0
0-90°	747	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 7.5W, 24.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	185.2	1.7
6'	82.3	2.6
8'	46.3	3.4
10'	29.6	4.3
12'	20.6	5.2

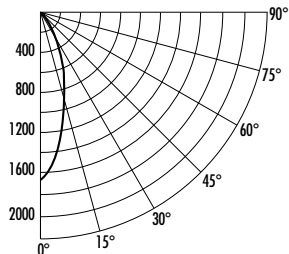
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	5900
55°	1785
65°	0
75°	0
85°	0

PHOTOMETRIC REPORT

Test Report#: PT07162141
Catalog No: 2LEDTRIM G2 DC 35K 80CRI
FL CWH (600L), Clear Cone
with Flood Optic

Luminaire Spacing Criteria: 0.58
Luminaire LPW: 103



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1669
5	1524
15	968
25	519
35	167
45	21
55	3
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60" room)
Reflectances: Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4'	54	48	43
5'	35	31	28
6'	24	21	19
7'	20	17	15
8'	15	14	12
9'	12	10	9
10'	9	8	7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	644	N/A	83.1
0-40°	752	N/A	97.1
0-60°	775	N/A	100.0
0-90°	775	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 7.5W, 35.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	104.3	2.6
6'	46.4	3.9
8'	26.1	5.2
10'	16.7	6.4
12'	11.6	7.7

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	11157
55°	1785
65°	0
75°	0
85°	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08.
Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

Multiplier:	80 CRI	90 CRI
	27K = .94	27K = .83
	30K = .97	30K = .86
	35K = 1.00	35K = .88
	40K = 1.03	40K = .90

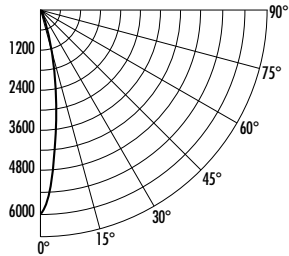
2" IC 600 AND 1000 LUMENS LED ROUND DOWNLIGHT CONE 2CPNC G2 DC CHICAGO PLENUM

PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report#: PT07162131R
Catalog No: 2LEDTRIM G2 DC 35K 80CRI
SP CWH (1000L), Clear Cone
with Spot Optic

Luminaire Spacing Criteria: 0.34
Luminaire LPW: 102



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	5997
5	5209
15	1520
25	481
35	80
45	18
55	3
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Reflectances: Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4'	83	75	69
5'	53	48	44
6'	37	33	31
7'	30	27	25
8'	23	21	20
9'	18	16	15
10'	13	12	11

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	1085	N/A	92.8
0-40°	1151	N/A	98.5
0-60°	1168	N/A	100.0
0-90°	1169	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 11.5W, 19.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	374.8	1.4
6'	166.6	2.1
8'	93.7	2.8
10'	60.0	3.5
12'	41.6	4.1

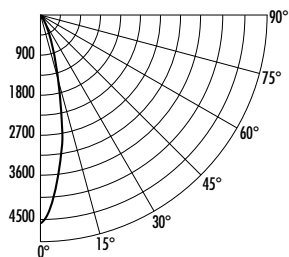
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	9638
55°	2197
65°	0
75°	0
85°	0

PHOTOMETRIC REPORT

Test Report#: PT07162136R
Catalog No: 2LEDTRIM G2 DC 35K 80CRI
NFL CWH (1000L), Clear Cone
with Narrow Flood Optic

Luminaire Spacing Criteria: 0.42
Luminaire LPW: 99



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	4533
5	4102
15	1579
25	526
35	98
45	17
55	4
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Reflectances: Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4'	81	73	66
5'	52	47	43
6'	36	32	30
7'	29	26	24
8'	23	21	19
9'	18	16	14
10'	13	12	11

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	1049	N/A	91.8
0-40°	1124	N/A	98.3
0-60°	1143	N/A	100.0
0-90°	1143	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 11.5W, 24.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	283.3	1.7
6'	125.9	2.6
8'	70.8	3.4
10'	45.3	4.3
12'	31.5	5.2

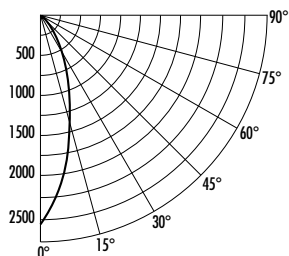
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	9027
55°	2732
65°	0
75°	0
85°	0

PHOTOMETRIC REPORT

Test Report#: PT07162141R
Catalog No: 2LEDTRIM G2 DC 35K 80CRI
FL CWH (1000L), Clear Cone
with Flood Optic

Luminaire Spacing Criteria: 0.58
Luminaire LPW: 104



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2571
5	2346
15	1490
25	799
35	256
45	32
55	4
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Reflectances: Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR3	RCR5
4'	84	74	66
5'	53	47	42
6'	37	33	29
7'	30	27	24
8'	24	21	19
9'	18	16	14
10'	13	12	11

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	991	N/A	83.1
0-40°	1159	N/A	97.1
0-60°	1193	N/A	100.0
0-90°	1193	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 11.5W, 35.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	160.7	2.6
6'	71.4	3.9
8'	40.2	5.2
10'	25.7	6.4
12'	17.9	7.7

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	17182
55°	2750
65°	0
75°	0
85°	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

Multiplier:	80 CRI	90 CRI
	27K = .94	27K = .83
	30K = .97	30K = .86
	35K = 1.00	35K = .88
	40K = 1.03	40K = .90