

JUNO®

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

2" IC 600 AND 1000 LUMENS LED ROUND ADJUSTABLE 2CPNC G2 ADJ 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 • Gimbal provides up to 35° vertical aiming and 360° horizontal aiming.

Aesthetic Trim Trim features die cast beveled knife edge trim ring for clean ceiling interface available in white, black, satin nickel, or brushed bronze • Die cast baffles are available in white, black, satin nickel, or brushed bronze

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.

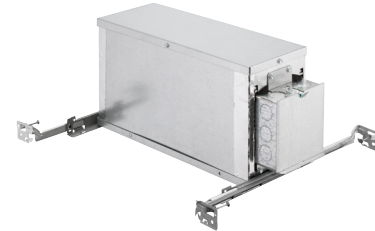
Labels CCEA Marking: U.L. listed for use in environment air spaces other than ducts and plenums per the Electrical Code specifications of the City of Chicago • 90CRI fixtures are certified to the high efficacy requirements of California T24 JA8-2019 • Meets energy code Air Leakage requirements per ASTM E283 • UL and cUL listed for damp 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 and accommodates ceiling 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.

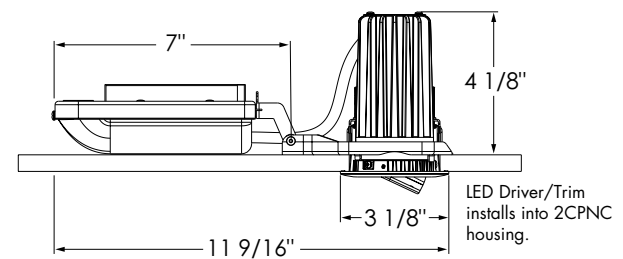
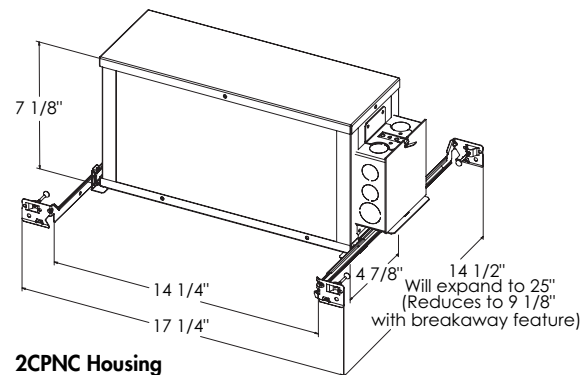
Specifications subject to change without notice.



Trim Finishes



DIMENSIONS



2 5/8" CEILING CUTOUT

2" IC 600 AND 1000 LUMENS LED ROUND ADJUSTABLE 2CPNC G2 ADJ 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.

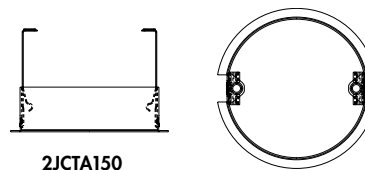
Series	Generation	Trim Designation	Lumens	Color Temperature	CRI	Distribution
2CPNC 2" Chicago Plenum New Construction	G2 Generation 2	ADJ Round Adjustable	06LM 600 Nominal Lumens	27K 2700K	80CRI 80+ CRI	FL Flood
			10LM 1000 Nominal Lumens	30K 3000K	90CRI 90+ CRI	NFL Narrow Flood
				35K 3500K		SP Spot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

Voltage	Driver	Trim Finish
120 120V	FRPC Forward/Reverse Phase Cut	BL Black
MVOLT Multi-Volt(120-277V)	ZT 0-10V Dimming	BRZ Bronze
		SN Satin Nickel
		WH White

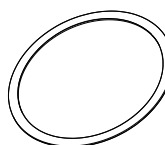
Note: 120V must be ordered with FRPC.
MVOLT must be ordered with ZT.

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

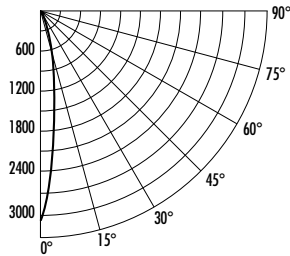
2" IC 600 AND 1000 LUMENS LED ROUND ADJUSTABLE 2CPNC G2 ADJ CHICAGO PLENUM

PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report#: PT07161925
Catalog No: 2LEDTRIM G2 ADJ 35K 80CRI
SP WH (600L), Adj Gimbal
with Spot Optic

Luminaire Spacing Criteria: 0.32
Luminaire LPW: 95



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3090
5	2523
15	816
25	275
35	127
45	51
55	17
65	10
75	6
85	2
90	0

AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4'	49	44	39
5'	32	28	25
6'	22	19	17
7'	18	16	14
8'	14	12	11
9'	11	10	9
10'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	560	N/A	78.5
0-40°	638	N/A	89.5
0-60°	695	N/A	97.5
0-90°	713	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 7.5W, 17.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	193.1	1.2
6'	85.8	1.9
8'	48.3	2.5
10'	30.9	3.1
12'	21.5	3.7

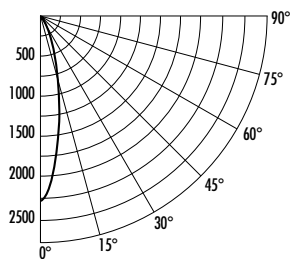
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	81936
55°	34328
65°	26240
75°	24484
85°	27265

PHOTOMETRIC REPORT

Test Report#: PT07161926
Catalog No: 2LEDTRIM G2 ADJ 35K 80CRI
NFL WH (600L), Adj Gimbal
with Narrow Flood Optic

Luminaire Spacing Criteria: 0.42
Luminaire LPW: 95



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2286
5	2009
15	840
25	304
35	127
45	51
55	21
65	11
75	6
85	2
90	0

AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4'	50	44	39
5'	32	28	25
6'	22	19	17
7'	18	16	14
8'	14	12	11
9'	11	10	8
10'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	552	N/A	77.4
0-40°	633	N/A	88.8
0-60°	694	N/A	97.2
0-90°	714	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 7.5W, 24.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	142.9	1.7
6'	63.5	2.6
8'	35.7	3.5
10'	22.9	4.3
12'	15.9	5.2

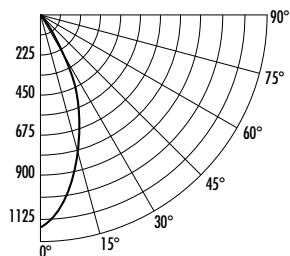
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	81296
55°	41627
65°	29721
75°	27982
85°	27265

PHOTOMETRIC REPORT

Test Report#: PT07161927
Catalog No: 2LEDTRIM G2 ADJ 35K 80CRI
FL WH (600L), Adj Gimbal
with Flood Optic

Luminaire Spacing Criteria: 0.70
Luminaire LPW: 95



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1141
5	1105
15	823
25	439
35	168
45	55
55	20
65	7
75	3
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'	50	43	38
5'	32	27	24
6'	22	19	17
7'	18	15	14
8'	14	12	11
9'	11	9	8
10'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	531	N/A	74.3
0-40°	639	N/A	89.5
0-60°	702	N/A	98.4
0-90°	714	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 7.5W, 43.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	71.3	3.2
6'	31.7	4.7
8'	17.8	6.3
10'	11.4	7.9
12'	7.9	9.5

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	88657
55°	39852
65°	19814
75°	13116
85°	1298

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

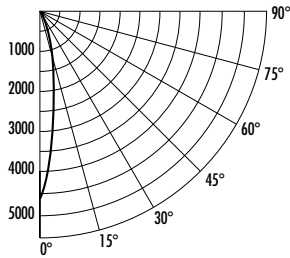
2" IC 600 AND 1000 LUMENS LED ROUND ADJUSTABLE 2CPNC G2 ADJ CHICAGO PLENUM

PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report#: PT07161928
Catalog No: 2LEDTRIM G2 ADJ 35K 80CRI
SP WH (1000L), Adj Gimbal
with Spot Optic

Luminaire Spacing Criteria: 0.32
Luminaire LPW: 96



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	4605
5	3793
15	1256
25	427
35	190
45	78
55	27
65	15
75	9
85	4
90	0

AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4'	76	67	60
5'	49	43	38
6'	34	30	27
7'	27	24	22
8'	22	19	17
9'	17	15	13
10'	12	11	10

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	856	N/A	78.5
0-40°	978	N/A	89.5
0-60°	1065	N/A	97.5
0-90°	1093	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 11.4W, 18.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	287.8	1.3
6'	127.9	1.9
8'	71.9	2.6
10'	46.0	3.2
12'	32.0	3.8

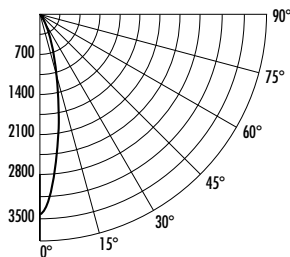
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	124984
55°	53267
65°	40163
75°	38475
85°	48039

PHOTOMETRIC REPORT

Test Report#: PT07161929
Catalog No: 2LEDTRIM G2 ADJ 35K 80CRI
NFL WH (1000L), Adj Gimbal
with Narrow Flood Optic

Luminaire Spacing Criteria: 0.42
Luminaire LPW: 95



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3480
5	3061
15	1280
25	462
35	192
45	77
55	32
65	17
75	10
85	4
90	0

AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4'	75	67	59
5'	48	43	38
6'	34	30	26
7'	27	24	21
8'	21	19	17
9'	16	14	13
10'	12	11	9

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	842	N/A	77.4
0-40°	964	N/A	88.7
0-60°	1056	N/A	97.1
0-90°	1087	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 11.4W, 24.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	217.5	1.7
6'	96.7	2.6
8'	54.4	3.5
10'	34.8	4.3
12'	24.2	5.2

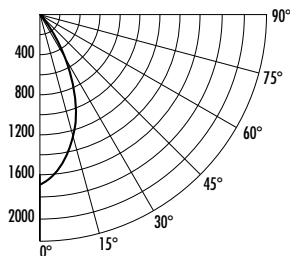
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	123544
55°	63526
65°	46322
75°	44158
85°	48039

PHOTOMETRIC REPORT

Test Report#: PT07161930
Catalog No: 2LEDTRIM G2 ADJ 35K 80CRI
FL WH (1000L), Adj Gimbal
with Flood Optic

Luminaire Spacing Criteria: 0.70
Luminaire LPW: 95



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1721
5	1665
15	1242
25	664
35	253
45	84
55	31
65	12
75	5
85	1
90	0

AVERAGE INITIAL FOOTCANDLES

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

Spacing	RCR1	RCR3	RCR5
4'	75	65	57
5'	48	41	37
6'	33	29	25
7'	27	23	21
8'	21	18	16
9'	16	14	12
10'	12	10	9

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	800	N/A	74.2
0-40°	963	N/A	89.3
0-60°	1060	N/A	98.3
0-90°	1078	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 11.4W, 43.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	107.6	3.2
6'	47.8	4.8
8'	26.9	6.3
10'	17.2	7.9
12'	12.0	9.5

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	133786
55°	60961
65°	31327
75°	21861
85°	9088

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.

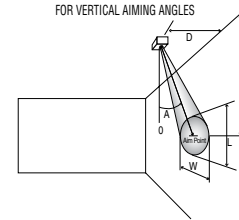
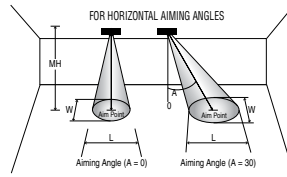
Multiplier:	80 CRI	90 CRI
	27K = .94	27K = .83
	30K = .97	30K = .86
	35K = 1.00	35K = .88
	40K = 1.03	40K = .90

2" IC 600 AND 1000 LUMENS LED ROUND ADJUSTABLE 2CPNC G2 ADJ CHICAGO PLENUM

PHOTOMETRICS

CBCP • Centerbeam candlepower
FC • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°).



Fixture	Beam Spread	CBCP	0°				30°			30°				
			MH	FC	L	W	FC	L	W	D	FC	X	L	W
2LEDTRIM (600L) Flood Optic	40°	1141	3	127	2.2	2.2	82	3.0	2.5	1	143	1.7	4.8	1.5
			4	71	2.9	2.9	46	4.1	3.4	2	36	3.5	9.7	2.9
			5	46	3.6	3.6	30	5.1	4.2	3	16	5.2	14.5	4.4
			6	32	4.4	4.4	21	6.1	5.0	4	9	6.9	19.3	5.8
			7	23	5.1	5.1	15	7.1	5.9	5	6	8.7	24.2	7.3
2LEDTRIM (600L) Narrow Flood Optic	24°	2286	3	254	1.3	1.3	165	1.7	1.5	1	286	1.7	2.0	0.9
			4	143	1.7	1.7	93	2.3	2.0	2	71	3.5	3.9	1.7
			5	91	2.1	2.1	59	2.9	2.5	3	32	5.2	5.9	2.6
			6	64	2.6	2.6	41	3.5	2.9	4	18	6.9	7.9	3.4
			7	47	3.0	3.0	30	4.0	3.4	5	11	8.7	9.8	4.3
2LEDTRIM (600L) Spot Optic	18°	3445	4	215	1.3	1.3	140	1.7	1.5	2	108	3.5	2.7	1.3
			5	138	1.6	1.6	90	2.1	1.8	3	48	5.2	4.1	1.9
			6	96	1.9	1.9	62	2.6	2.2	4	27	6.9	5.5	2.5
			7	70	2.2	2.2	46	3.0	2.6	5	17	8.7	6.9	3.2
			8	54	2.5	2.5	35	3.4	2.9	6	12	10.4	8.2	3.8

For 2700K fixtures, use 0.96 multiplier; for 3000K fixtures, use 1.00 multiplier;
for 3500K fixtures, use 1.03 multiplier; for 4000K fixtures, use 1.06 multiplier.

Fixture	Beam Spread	CBCP	0°				30°			30°				
			MH	FC	L	W	FC	L	W	D	FC	X	L	W
2LEDTRIM (1000L) Flood Optic	40°	1721	3	191	2.2	2.2	124	3.0	2.5	1	215	1.7	4.8	1.5
			4	108	2.9	2.9	70	4.1	3.4	2	54	3.5	9.7	2.9
			5	69	3.6	3.6	45	5.1	4.2	3	24	5.2	14.5	4.4
			6	48	4.4	4.4	31	6.1	5.0	4	13	6.9	19.3	5.8
			7	35	5.1	5.1	23	7.1	5.9	5	9	8.7	24.2	7.3
2LEDTRIM (1000L) Narrow Flood Optic	24°	3480	3	387	1.3	1.3	251	1.7	1.5	1	435	1.7	2.0	0.9
			4	218	1.7	1.7	141	2.3	2.0	2	109	3.5	3.9	1.7
			5	139	2.1	2.1	90	2.9	2.5	3	48	5.2	5.9	2.6
			6	97	2.6	2.6	63	3.5	2.9	4	27	6.9	7.9	3.4
			7	71	3.0	3.0	46	4.0	3.4	5	17	8.7	9.8	4.3
2LEDTRIM (1000L) Spot Optic	18°	4604	4	288	1.3	1.3	187	1.7	1.5	2	144	3.5	2.7	1.3
			5	184	1.6	1.6	120	2.1	1.8	3	64	5.2	4.1	1.9
			6	128	1.9	1.9	83	2.6	2.2	4	36	6.9	5.5	2.5
			7	94	2.2	2.2	61	3.0	2.6	5	23	8.7	6.9	3.2
			8	72	2.5	2.5	47	3.4	2.9	6	16	10.4	8.2	3.8

For 2700K fixtures, use 0.96 multiplier; for 3000K fixtures, use 1.00 multiplier;
for 3500K fixtures, use 1.03 multiplier; for 4000K fixtures, use 1.06 multiplier.