



2" IC 600 AND 1000 LUMENS LED SQUARE ADJUSTABLE GEN2

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____



PRODUCT DESCRIPTION

2 inch square aperture recessed adjustable is 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 • Low profile form factor allows luminaire to fit in 2 x 6 construction • Designed to provide 50,000 hours of life • 5 year limited warranty on LED Components.

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury, RoHS compliant
- Comparable light output 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 4100K 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 Die cast gimbal style trims are available in white, black, satin nickel, or brushed bronze.

LED Driver Choice of dedicated 120 volt driver or universal voltage driver that accommodates input voltages from 120-277 volts AC at 50/60Hz. Power factor > 0.9. Dedicated 120 volt driver (-1) is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage dimmers • Universal voltage driver (-U) 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 ENERGY STAR® Qualified • 90CRI fixtures are certified to the high efficacy requirements of California T24 • Meets energy code Air Leakage requirements per ASTM E283 • UL and cUL listed for damp locations.

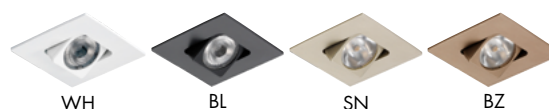
Junction Box Includes (2) 1/2" knock-outs equipped with pryout slots • Push-in electrical connectors for field connections.

Mounting Remodel style plaster frame installs from below the ceiling and accommodates ceiling thicknesses from 1/2" to 1" • For thicker ceilings up to 1 1/2", order 2-JCTA150 • New Construction mounting frame, 2-NCMF, is also available with Patented (US Patent D552,969) Real Nail 3® telescoping bar hangers to position fixture and locate wiring prior to ceiling installation • Recommend a minimum of 5.5" cavity depth to install properly • Flexible supply is recommended and non-flexible supply requires top access.

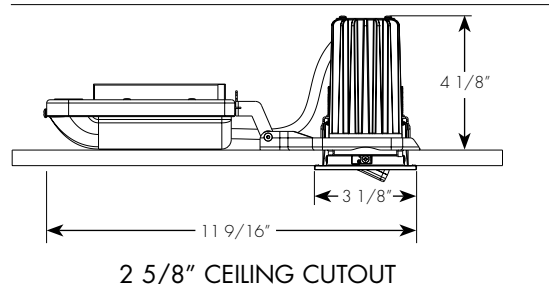
Product specifications subject to change without notice.



Trim Finishes



DIMENSIONS



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

2" IC 600 AND 1000 LUMENS LED SQUARE ADJUSTABLE GEN2

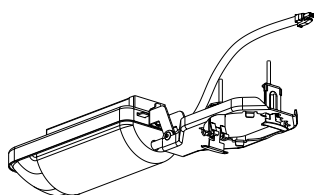
ORDERING INFORMATION: DRIVER AND TRIM EACH ORDERED SEPARATELY

Example: **2LEDDRVG2-10-120**

Series	Gen	Lumens	Drivers
2LEDDRV	G2	6 600 Lumens 10 1000 Lumens	120

Dedicated
120V Only
(Forward
Phase + ELVDimmable)

MVOLT Universal
Voltage
120-277V
(0-10V Dimmable)



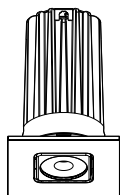
MOUNTING FRAME/DRIVER ASSEMBLY

Note: Driver assembly only intended for use with
Gen2 LED trim modules. Not backward compatible
with previous generation.

TRIM:

Example: **2LEDTG2SQA-827S-WH**

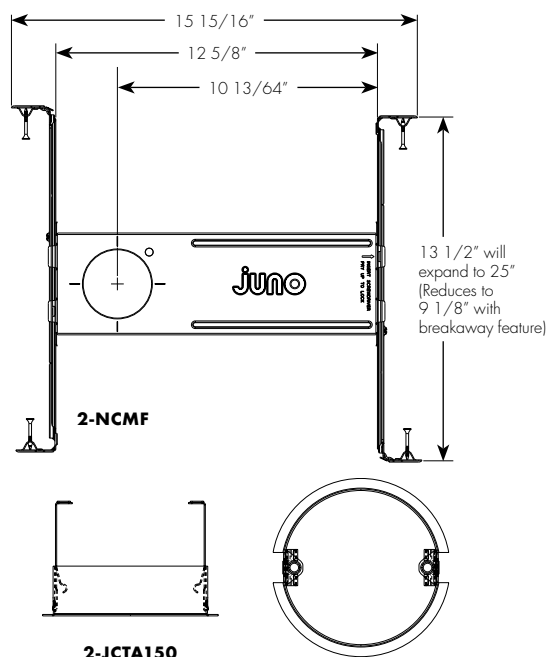
Series	Gen	Trim Type	CRI	CCT	Beam Optics	Finish
2LEDT	G2	SQA Square Adjustable Gimbal	8 80CRI 9 90CRI	27 2700K 30 3000K 35 3500K 41 4100K	S 18° Spot N 24° Narrow Flood F 40° Flood	WH White BL Black BZ Bronze SN Satin Nickel



TRIM/LED ASSEMBLY

ACCESSORIES

Catalog No.	Description
2-NCMF	New Construction Mounting Frame with Real Nail® 3 bar hangers
2-JCTA150	Thick Ceiling adapter for 1" - 1 1/2" thick ceiling
LEDOPTIC2-S	18° Spot Optic
LEDOPTIC2-N	24° Narrow Flood Optic
LEDOPTIC2-F	40° Flood Optic



2" IC 600 AND 1000 LUMENS LED SQUARE ADJUSTABLE GEN2

PHOTOMETRIC REPORT

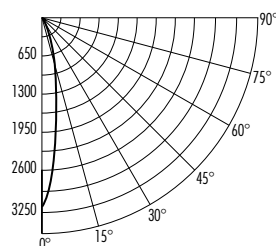
Test Report#: PT07162001

Catalog No: 2LEDTG2SQA-835S-SN (600L)

80CRI, 3500K LED, Square Adj
Gimbal with Spot Optic

Luminaire Spacing Criteria: 0.32

Luminaire LPW: 96



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3150
5	2606
15	837
25	273
35	120
45	48
55	15
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	44	40
5'	32	28	26
6'	22	20	18
7'	18	16	15
8'	14	13	11
9'	11	10	9
10'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	580	N/A	80.8
0-40°	656	N/A	91.5
0-60°	707	N/A	98.6
0-90°	717	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 7.5W, 18.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	196.9	1.3
6'	87.5	1.9
8'	49.2	2.6
10'	31.5	3.2
12'	21.9	3.9

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	93333
55°	35330
65°	22031
75°	15871
85°	3142

PHOTOMETRIC REPORT

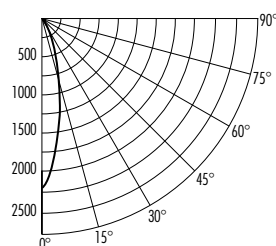
Test Report#: PT07162002

Catalog No: 2LEDTG2SQA-835N-SN (600L)

80CRI, 3500K LED, Square Adj
Gimbal with Narrow Flood Optic

Luminaire Spacing Criteria: 0.42

Luminaire LPW: 92



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2261
5	1986
15	828
25	297
35	121
45	48
55	18
65	8
75	4
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'	48	43	38
5'	31	27	24
6'	21	19	17
7'	17	15	14
8'	14	12	11
9'	10	9	8
10'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	547	N/A	78.8
0-40°	625	N/A	90.1
0-60°	680	N/A	98.1
0-90°	694	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 7.5W, 24.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	141.3	1.7
6'	62.8	2.6
8'	35.3	3.4
10'	22.6	4.3
12'	15.7	5.2

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	92752
55°	43446
65°	26243
75°	20103
85°	4713

PHOTOMETRIC REPORT

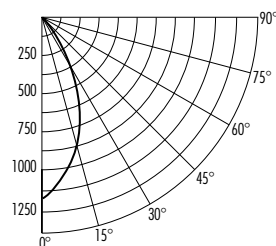
Test Report#: PT07162003

Catalog No: 2LEDTG2SQA-835F-SN (600L)

80CRI, 3500K LED, Square Adj
Gimbal with Flood Optic

Luminaire Spacing Criteria: 0.70

Luminaire LPW: 98



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1162
5	1118
15	840
25	451
35	172
45	56
55	19
65	6
75	2
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'	51	45	39
5'	33	29	25
6'	23	20	17
7'	18	16	14
8'	15	13	11
9'	11	10	9
10'	8	7	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	550	N/A	74.8
0-40°	663	N/A	90.3
0-60°	727	N/A	98.9
0-90°	735	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 7.5W, 44.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	72.6	3.2
6'	32.3	4.9
8'	18.2	6.5
10'	11.6	8.1
12'	8.1	9.7

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	108437
55°	44163
65°	18143
75°	9522
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
	827 = .94	927 = .83
	830 = .97	930 = .86
	835 = 1.00	935 = .88
	841 = 1.03	940 = .90

2" IC 600 AND 1000 LUMENS LED SQUARE ADJUSTABLE GEN2

PHOTOMETRIC REPORT

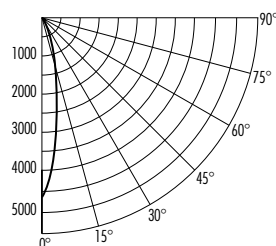
Test Report#: PT07162004

Catalog No: 2LEDTG2SQA-835S-SN (1000L)

80CRI, 3500K LED, Square Adj
Gimbal with Spot Optic

Luminaire Spacing Criteria: 0.32

Luminaire LPW: 94



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	4685
5	3835
15	1232
25	406
35	179
45	72
55	22
65	10
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'	74	66	60
5'	48	42	38
6'	33	29	27
7'	27	24	22
8'	21	19	17
9'	16	14	13
10'	12	11	10

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	857	N/A	80.6
0-40°	971	N/A	91.3
0-60°	1047	N/A	98.5
0-90°	1064	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 11.3W, 18.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	292.8	1.3
6'	130.1	1.9
8'	73.2	2.6
10'	46.9	3.2
12'	32.5	3.8

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	139225
55°	51801
65°	33694
75°	25393
85°	10997

PHOTOMETRIC REPORT

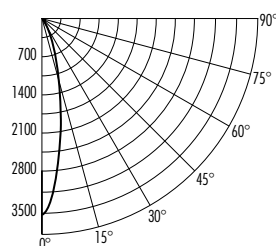
Test Report#: PT07162005

Catalog No: 2LEDTG2SQA-835N-SN (1000L)

80CRI, 3500K LED, Square Adj
Gimbal with Narrow Flood Optic

Luminaire Spacing Criteria: 0.42

Luminaire LPW: 93



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	3502
5	3081
15	1287
25	454
35	182
45	71
55	27
65	13
75	6
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'	73	64	58
5'	47	41	37
6'	32	29	26
7'	26	23	21
8'	21	18	16
9'	16	14	13
10'	12	10	9

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	834	N/A	79.4
0-40°	950	N/A	90.4
0-60°	1030	N/A	98.1
0-90°	1051	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 11.3W, 24.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	218.9	1.7
6'	97.3	2.6
8'	54.7	3.4
10'	35.0	4.3
12'	24.3	5.1

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	136514
55°	64215
65°	40822
75°	32271
85°	14139

PHOTOMETRIC REPORT

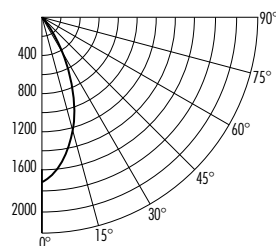
Test Report#: PT07162006

Catalog No: 2LEDTG2SQA-835F-SN (1000L)

80CRI, 3500K LED, Square Adj
Gimbal with Flood Optic

Luminaire Spacing Criteria: 0.70

Luminaire LPW: 97



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1738
5	1672
15	1257
25	677
35	259
45	84
55	28
65	9
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'	76	67	58
5'	49	43	37
6'	34	30	26
7'	27	24	21
8'	22	19	17
9'	17	15	13
10'	12	11	9

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	823	N/A	74.7
0-40°	992	N/A	90.1
0-60°	1088	N/A	98.8
0-90°	1101	N/A	100.0

INITIAL FOOTCANDLES

(One Unit, 11.3W, 44.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	108.6	3.2
6'	48.3	4.9
8'	27.2	6.5
10'	17.4	8.1
12'	12.1	9.7

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45°	162849
55°	66841
65°	28835
75°	16929
85°	1571

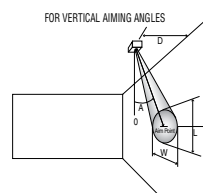
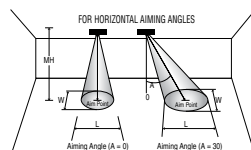
Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

Multiplier:	80 CRI	90 CRI
	827 = .94	927 = .83
	830 = .97	930 = .86
	835 = 1.00	935 = .88
	841 = 1.03	940 = .90

2" IC 600 AND 1000 LUMENS LED SQUARE ADJUSTABLE GEN2

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°).



Beam Spread			0°				30°			30°				
Fixture		CBCP	MH	FC	L	W	FC	L	W	D	FC	X	L	W
2LEDTG2SQA (600L) Flood Optic	40° 	1162	3	129	2.2	2.2	84	3.0	2.5	1	145	1.7	4.8	1.5
			4	73	2.9	2.9	47	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	24	5.1	5.1	15	7.1	5.9	5	6	8.7	24.2	7.3
2LEDTG2SQA (600L) Narrow Flood Optic	24° 	2261	3	251	1.3	1.3	163	1.7	1.5	1	283	1.7	2.0	0.9
			4	141	1.7	1.7	92	2.3	2.0	2	71	3.5	3.9	1.7
			5	90	2.1	2.1	59	2.9	2.5	3	31	5.2	5.9	2.6
			6	63	2.6	2.6	41	3.5	2.9	4	18	6.9	7.9	3.4
			7	46	3.0	3.0	30	4.0	3.4	5	11	8.7	9.8	4.3
2LEDTG2SQA (600L) Spot Optic	18° 	3150	4	197	1.3	1.3	128	1.7	1.5	2	98	3.5	2.7	1.3
			5	126	1.6	1.6	82	2.1	1.8	3	44	5.2	4.1	1.9
			6	88	1.9	1.9	57	2.6	2.2	4	25	6.9	5.5	2.5
			7	64	2.2	2.2	42	3.0	2.6	5	16	8.7	6.9	3.2
			8	49	2.5	2.5	32	3.4	2.9	6	11	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 4100K fixtures, use 1.06 multiplier.

Fixture	Beam Spread	CBCP	0°				30°			30°				
			MH	FC	L	W	FC	L	W	D	FC	X	L	W
2LEDTG2SQA (1000L) Flood Optic	40° 	1738	3	193	2.2	2.2	125	3.0	2.5	1	217	1.7	4.8	1.5
			4	109	2.9	2.9	71	4.1	3.4	2	54	3.5	9.7	2.9
			5	70	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	14	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
2LEDTG2SQA (1000L) Narrow Flood Optic	24° 	3502	3	389	1.3	1.3	253	1.7	1.5	1	438	1.7	2.0	0.9
			4	219	1.7	1.7	142	2.3	2.0	2	109	3.5	3.9	1.7
			5	140	2.1	2.1	91	2.9	2.5	3	49	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	18	8.7	9.8	4.3
2LEDTG2SQA (1000L) Spot Optic	18° 	4685	4	293	1.3	1.3	190	1.7	1.5	2	146	3.5	2.7	1.3
			5	187	1.6	1.6	122	2.1	1.8	3	65	5.2	4.1	1.9
			6	130	1.9	1.9	85	2.6	2.2	4	37	6.9	5.5	2.5
			7	96	2.2	2.2	62	3.0	2.6	5	23	8.7	6.9	3.2
			8	73	2.5	2.5	48	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 4100K fixtures, use 1.06 multiplier.