



MULTI-SPOT® 1000/2000/3000 LUMEN LED

CLOSED APERTURE

1, 2 & 3 HEAD LED UNITS

Type: _____

Catalog No.: _____

Project: _____

Notes: _____



ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- 1000 lumen unit provides comparable light output to a 75W PAR30 halogen, 2000 & 3000 lumen units provide output similar to a 39W PAR30 & 70W T4 Metal Halide; all while utilizing less energy and having a rated life of 50,000 hours
- All beam, lumen, color temperature, voltage and CRI combinations are ENERGY STAR® Certified
- Optics and LED's coordinated to match the Juno Trac offering
- No harmful ultraviolet or infrared wavelengths
- No lead or mercury
- **Low UGR:** UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting.



PRODUCT SPECIFICATIONS

ELECTRICAL

LED Light Engine: High output LED arrays provide outstanding reliability, performance and color quality/consistency • 2700K, 3000K, 3500K or 4000K color temperatures • 80 CRI standard, 90 and 97 CRI available, see options (lumen drop of approximately 17% and 25% with 90 and 97 CRI, respectively) • 97 CRI available for 2700K and 3000K CCTs only • "Spectral White" color/white enhancing option makes whites appear naturally brilliant and renders colors more richly • Spectral white is available with 3000K, 3500K, and 4000K • Consistent fixture-to-fixture color temperature that is within 3 MacAdam ellipses

Dimming: Dimmable via 0-10V controller • For a list of compatible dimmers see [LED-DIM](#)

LED Driver: Universal driver accommodates 120 to 277 input volts AC at 50/60Hz • Power factor >0.9 • Easily replaceable from below or above the ceiling.

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

Operation Temperature: -40° to 45° C

LABELS AND LISTINGS

- UL listed for dry/damp locations • UL and cUL, RoHS compliant
- EMI complies with FCC 47, Part 15, Class A
- ENERGY STAR® certified, see page 6 for designated products
- I.B.E.W. Union made

BUY AMERICAN ACT: This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

Warranty: 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

ORDERING INFORMATION - Complete Fixture

Ordering Example: MSS30 2LH F1 F2 10LM 30K 120 G3 80CRI ZT BL HBTL

Complete Unit - (Use when ordering a complete fixture; rough-in, fixture heads, options and accessories)

Series	LED Heads	Distribution - Head 1	Distribution - Head 2	Distribution - Head 3	Lumens	Color Temperature
MSS30 Multi-Spot Series PAR30 LED Multi-light	1LH 1 LED Head	F1 Flood	F2 Flood	F3 Flood	10LM 1000 Lumens	27K 2700K
	2LH 2 LED Head	N1 Narrow Flood	N2 Narrow Flood	N3 Narrow Flood	20LM 2000 Lumens	30K 3000K
	3LH 3 LED Head	S1 Spot	S2 Spot	S3 Spot	30LM 3000 Lumens	35K 3500K
						40K 4000K

Voltage	Generation	CRI	Driver Option	Finish	Options	Mounting Hardware
120 120 Volt 277 277 Volt	G3 Generation 3	80CRI 80+ CRI 90CRI 90+ CRI 97CRI ¹ 97+ CRI SW ² Spectral White	ZT 0-10V Dimming	BL Black WH White	F ³ Fuse and Fuse Holder CP Chicago Plenum NL ⁶ nLight Total Fixture Control NLH nLight Individual Head Control BLF Black Flange (White Flange comes standard)	HB28 28" C-Channel Bar Hangers, Pair HB52 52" C-Channel Bar Hangers, Pair HBTL 25" Tru-Lock Grid Ceiling Bar Hangers, Pair LB27 27" Linear Bar Hangers, Pair



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ORDERING INFORMATION - Accessories

Order as separate catalog number.					
CCLBL 375⁴	Louver 3 3/4" Dia. w/ 1/2" Sq. Cells	CGF 375 MBLU⁴	Med. Blue Color Filter	LSPREAD 375⁵	Linear Spread Lens
CGF 375 MPINK⁴	Med. Pink Color Filter	CGF 375 MAMB⁴	Med. Amber Color Filter	DCCF 375 HIDINC⁵	Color Correction Lens
CGF 375 WRED⁴	Warm Red Color Filter	CGF 375 MGRN⁴	Med. Green Color Filter	SOLITE 375⁵	Uniformity Lens
CGF 375 DLTBLUE⁴	Daylite Blue Color Filter	PRISM 375⁵	Prismatic Spread Lens	T5623⁵	High Output Uniformity Lens

ORDERING INFORMATION - Rough-In Only

Ordering Example: MSSR30 1LH 10LM 120 G3 ZT BL

Individual Component - (Use when ordering rough-in housing, fixture heads, options and accessories separately)

Series	LED Heads	Lumens	Voltage
MSSR30 Multi-Spot Series LED Multi-light Housing	1LH 1 LED Head 2LH 2 LED Head 3LH 3 LED Head	10LM 1000 Lumens 20LM 2000 Lumens 30LM 3000 Lumens	120 120 Volt 277 277 Volt

Generation	Driver Option	Finish	Options
G3 Generation 3	ZT 0-10V Dimming	BL Black WH White	F³ Fuse and Fuse Holder CP Chicago Plenum NL⁶ nLight Total Fixture Control NLH nLight Individual Head Control BLF Black Flange (White Flange comes standard)

ORDERING INFORMATION - Head Only

Ordering Example: MSSH30 F1 10LM 27K G3 80CRI BL

Individual Component - (Use when ordering rough-in housing, fixture heads, options and accessories separately)

Series	Distribution - Head 1	Lumens	Color Temperature	Generation	CRI	Finish
MSSH30 Multi-Spot Series PAR30 LED Head	F1 Flood N1 Narrow Flood S1 Spot	10LM 1000 Lumens 20LM 2000 Lumens 30LM 3000 Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K	G3 Generation 3	80CRI 80+ CRI 90CRI 90+ CRI 97CRI¹ 97+ CRI SW² Spectral White	BL Black WH White

- Notes:
- 1 Excludes 35K and 40K.
 - 2 Excludes 27K.
 - 3 Must specify voltage.
 - 4 Not for use with Chicago Plenum.
 - 5 Not for use with any other accessories.
 - 6 Use NL Option for 1 Light.



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MECHANICAL

LED Fixture Head: Cast aluminum housing is removable for ease of maintenance and interchangeability of LED color temperatures • Interchangeable optics make it very easy to change beam spreads in the field • Integral heat sink conducts heat away from LED light engine • LED fixture heads can be ordered and shipped separately from rough-in housing • Integral die-cast accessory holder and optional metal snoot for improved lamp shielding • Accessory louver or snoot can be combined with one (1) accessory color filter

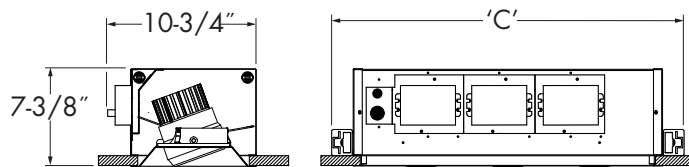
Adjustability: 40° vertical aiming capability and 360° horizontal rotation • Each head is individually aimable

Trim Finish: Black trim w/ black lamp heads and white flange (BL) or white trim w/ white lamp heads and white flange (WH) • Heavy gauge steel

Housing: 22 gauge die-formed galvanized steel, vented • Universal housing design installs in suspended grid, plaster or drywall • Drivers are accessible from above and below ceiling • Light engine and driver can be upgraded to accommodate future technology improvements. • Rough-in housing can be ordered separately from fixture heads, see Individual Component Ordering Information.

Mounting Bracket: Mounting brackets have 2.5" vertical adjustment and accept proprietary Tru-Lock bar hangers, 1-1/2" C-channel and flat linear bars (order as accessories) or 1-1/2" EMT, 3/4" and 1-1/2" lathing channel (by others) • One-piece Tru-Lock bar hangers have integral T-bar locking screws and alignment notches for locating and locking fixture in the center or 1/4" tile increments and 40K

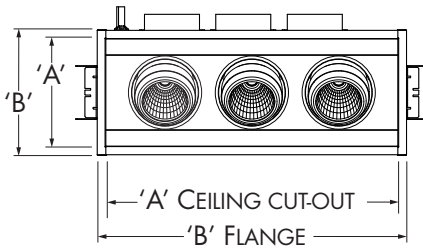
DIMENSIONS



# of Heads	Ceiling Cut-out 'A'	Flange Trim 'B'	Dimension 'C'
1	8-1/2" x 8-5/8"	9-1/2" x 9-5/8"	12-7/8"
2	8-1/2" x 13-5/8"	9-1/2" x 14-5/8"	17-7/8"
3	8-1/2" x 22-5/8"	9-1/2" x 23-5/8"	26-7/8"



LED fixture heads can be ordered and shipped separately from rough-in housing.



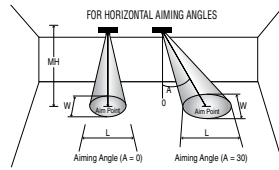


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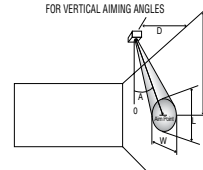
PHOTOMETRICS

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°, 1.0 for 45°, 1.732 for 60°).



Horizontal Aiming Angles



Vertical Aiming Angles



Fixture	Beam Type	Beam Spread	Rated Life	CBCP	0°		30°			30°				45°				60°							
					MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W	D	FC	X	L	W
34W LED 3000 Lumens 30K/35K/40K 80 CRI	S	10°	50000	38727	8	605	1.4	1.4	393	1.9	1.6	6	699	10.4	1.4	1.2	484	7.2	1.8	1.4	6	699	3.5	1.3	1.1
					10	387	1.7	1.7	252	2.3	2.0	8	393	13.9	1.9	1.6	272	9.5	2.4	1.8	9	311	5.2	2.0	1.7
					12	269	2.1	2.1	175	2.8	2.4	10	252	17.3	2.3	2.0	174	11.9	3.0	2.3	12	175	6.9	2.6	2.3
					14	198	2.4	2.4	128	3.3	2.8	12	175	20.8	2.8	2.4	121	14.3	3.6	2.7	15	112	8.7	3.3	2.8
	N	23°	50000	16118	6	448	2.4	2.4	291	3.3	2.8	4	654	6.9	2.2	1.9	453	4.8	2.9	2.1	4	654	2.3	2.1	1.8
					8	252	3.3	3.3	164	4.4	3.8	5	419	8.7	2.8	2.3	290	6.0	3.6	2.7	6	291	3.5	3.2	2.7
					10	161	4.1	4.1	105	5.5	4.7	6	291	10.4	3.3	2.8	201	7.2	4.3	3.2	8	164	4.6	4.2	3.6
					12	112	4.9	4.9	73	6.6	5.6	7	214	12.1	3.9	3.3	148	8.3	5.0	3.7	10	105	5.8	5.3	4.5
	F	42°	50000	5995	4	375	3.2	3.2	243	4.4	3.6	4	243	6.9	4.4	3.6	168	4.8	6.0	4.1	2	973	1.2	2.2	1.8
					5	240	3.9	3.9	156	5.5	4.5	5	156	8.7	5.5	4.5	108	6.0	7.5	5.1	3	433	1.7	3.2	2.7
					6	167	4.7	4.7	108	6.6	5.5	6	108	10.4	6.6	5.5	75	7.2	9.0	6.2	4	243	2.3	4.3	3.6
					7	122	5.5	5.5	79	7.8	6.4	7	79	12.1	7.8	6.4	55	8.3	10.6	7.2	5	156	2.9	5.4	4.5
26W LED 2000 Lumens 30K/35K/40K 80 CRI	S	10°	50000	23280	8	364	1.4	1.4	236	1.9	1.6	6	420	10.4	1.4	1.2	291	7.2	1.8	1.4	6	420	3.5	1.4	1.4
					10	233	1.7	1.7	151	2.3	2.0	8	236	13.9	1.9	1.6	164	9.5	2.4	1.8	9	187	5.2	2.0	1.8
					12	162	2.1	2.1	105	2.8	2.4	10	151	17.3	2.3	2.0	105	11.9	3.0	2.3	12	105	6.9	2.7	2.4
					14	119	2.4	2.4	77	3.3	2.8	12	105	20.8	2.8	2.4	73	14.3	3.6	2.7	15	67	8.7	3.4	2.9
	N	23°	50000	10155	6	282	2.4	2.4	183	3.3	2.8	4	412	6.9	2.2	1.9	285	4.8	2.9	2.1	4	412	2.3	2.2	1.9
					8	159	3.3	3.3	103	4.4	3.8	5	264	8.7	2.8	2.3	183	6.0	3.6	2.7	6	183	3.5	3.3	2.9
					10	102	4.1	4.1	66	5.5	4.7	6	183	10.4	3.3	2.8	127	7.2	4.3	3.2	8	103	4.6	4.5	3.8
					12	71	4.9	4.9	46	6.6	5.6	7	135	12.1	3.9	3.3	93	8.3	5.0	3.7	10	66	5.8	5.6	4.8
	F	42°	50000	4111	4	257	3.2	3.2	167	4.4	3.6	4	167	6.9	4.4	3.6	116	4.8	6.0	4.1	2	668	1.2	2.3	1.9
					5	164	3.9	3.9	107	5.5	4.5	5	107	8.7	5.5	4.5	74	6.0	7.5	5.1	3	297	1.7	3.4	2.8
					6	114	4.7	4.7	74	6.6	5.5	6	74	10.4	6.6	5.5	51	7.2	9.0	6.2	4	167	2.3	4.5	3.7
					7	84	5.5	5.5	54	7.8	6.4	7	54	12.1	7.8	6.4	38	8.3	10.6	7.2	5	107	2.9	5.7	4.6
13W LED 1000 Lumens 30K/35K/40K 80 CRI	S	10°	50000	11655	8	182	1.4	1.4	118	1.9	1.6	6	210	10.4	1.4	1.2	146	7.2	1.8	1.4	6	210	3.5	1.4	1.2
					10	117	1.7	1.7	76	2.3	2.0	8	118	13.9	1.9	1.6	82	9.5	2.4	1.8	9	93	5.2	2.1	1.8
					12	81	2.1	2.1	53	2.8	2.4	10	76	17.3	2.3	2.0	52	11.9	3.0	2.3	12	53	6.9	2.8	2.4
					14	59	2.4	2.4	39	3.3	2.8	12	53	20.8	2.8	2.4	36	14.3	3.6	2.7	15	34	8.7	3.5	3.1
	N	23°	50000	5158	6	143	2.4	2.4	93	3.3	2.8	4	209	6.9	2.2	1.9	145	4.8	2.9	2.1	4	209	2.3	2.3	1.9
					8	81	3.3	3.3	52	4.4	3.8	5	134	8.7	2.8	2.3	93	6.0	3.6	2.7	6	93	3.5	3.4	2.9
					10	52	4.1	4.1	34	5.5	4.7	6	93	10.4	3.3	2.8	64	7.2	4.3	3.2	8	52	4.6	4.5	3.9
					12	36	4.9	4.9	23	6.6	5.6	7	68	12.1	3.9	3.3	47	8.3	5.0	3.7	10	34	5.8	5.7	4.8
	F	42°	50000	2134	4	133	3.2	3.2	87	4.4	3.6	4	87	6.9	4.4	3.6	60	4.8	6.0	4.1	2	347	1.2	2.2	1.8
					5	85	3.9	3.9	55	5.5	4.5	5	55	8.7	5.5	4.5	38	6.0	7.5	5.1	3	154	1.7	3.2	2.7
					6	59	4.7	4.7	39	6.6	5.5	6	39	10.4	6.6	5.5	27	7.2	9.0	6.2	4	87	2.3	4.3	3.6
					7	44	5.5	5.5	28	7.8	6.4	7	28	12.1	7.8	6.4	20	8.3	10.6	7.2	5	55	2.9	5.4	4.4
8	33	6.3	6.3	22	8.9	7.3	8	22	13.9	8.9	7.3	15	9.5	12.1	8.2	6	39	3.5	3.5	5.3					

The beam spread in degrees and the beam "L" and "W" in the above tables are computed at 50% of centerbeam candlepower and represent areas of "effective illumination". For 2700K fixtures, use 0.96 multiplier. For 90 CRI, use 0.83 multiplier; For 97 CRI, use 0.75 multiplier; For Spectral White, use 0.80 multiplier

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.



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ENGINEERING DATA

Voltage		120V	277V	120V	277V	120V	277V
Light Engine Lumens		1000	1000	2000	2000	3000	3000
CCT		27K/30K/35K/40K	27K/30K/35K/40K	27K/30K/35K/40K	27K/30K/35K/40K	27K/30K/35K/40K	27K/30K/35K/40K
1-Light	Input Current	0.12A	0.05A	0.21A	0.09A	0.28A	0.12A
	Input Wattage ¹	13W	13W	26W	26W	34W	34W
2-Light	Input Current	0.20A	0.09A	0.41A	0.18A	0.55A	0.24A
	Input Wattage ¹	24W	24W	49W	49W	66W	66W
3-Light	Input Current	0.29A	0.12A	0.61A	0.26A	0.82A	0.35A
	Input Wattage ¹	34W	34W	73W	73W	98W	98W
Input Frequency		50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor		>0.99	>0.93	>0.99	>0.93	>0.99	>0.94

Notes:

¹ NL option will add 1.3 watts per fixture/NLH option will add 1.3 watts per head.

PERFORMANCE DATA

Catalog Number	Input Voltage	Input Watts (Typical)	Lumens	Efficacy (LPW)	Rated Life (Hours)
3000 Lumens					
SPOT-30K/35K/40K	120V	34.5W	2803	81	50,000
NARROW FLOOD-30K/35K/40K	120V	34.5W	2917	85	50,000
FLOOD-30K/35K/40K	120V	34.5W	3074	89	50,000
SPOT-27K	120V	34.5W	2691	78	50,000
NARROW FLOOD-27K	120V	34.5W	2800	81	50,000
FLOOD-27K	120V	34.5W	2951	86	50,000
2000 Lumens					
SPOT-30K/35K/40K	120V	24.9W	1935	78	50,000
NARROW FLOOD-30K/35K/40K	120V	24.9W	1925	77	50,000
FLOOD-30K/35K/40K	120V	24.9W	2104	84	50,000
SPOT-27K	120V	24.9W	1858	75	50,000
NARROW FLOOD-27K	120V	24.9W	1848	74	50,000
FLOOD-27K	120V	24.9W	2020	81	50,000
1000 Lumens					
SPOT-30K/35K/40K	120V	12.5W	1062	85	50,000
NARROW FLOOD-30K/35K/40K	120V	12.5W	1000	80	50,000
FLOOD-30K/35K/40K	120V	12.5W	966	77	50,000
SPOT-27K	120V	12.5W	1020	82	50,000
NARROW FLOOD-27K	120V	12.5W	960	77	50,000
FLOOD-27K	120V	12.5W	927	74	50,000

CRI MULTIPLIER

80 = 1.00

90 = 0.83




97 = 0.75



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ENERGY STAR® certified		
	PRODUCT#	FIXTURE CONFIGURATIONS = ENERGY STAR
	<p>Complete Unit MSS30 (X)LH (Y1/Y2/Y3) (Z)LM (A) (B) G3 (C) (D) (E) (F)</p> <p>¹Excludes 35K and 40K</p>	<p>LED Heads: X = 1LH, 2LH, 3LH Beam Spread: Y = F, N, S Lumens: Z = 10LM, 20LM, 30LM CCT: A = 27K, 30K, 35K, 40K Voltage: B = 120, 277 CRI: C = 80CRI, 90CRI, 97CRI¹ Driver: D = ZT Finish Color: E = WH, BL Options: F = F, CP</p>
	<p>Rough-in only MSSR30 (X)LH (Z)LM (B) G3 (D) (E) (F)</p>	<p>Lamp Heads: X = 1LH, 2LH, 3LH Lumens: Z = 10LM, 20LM, 30LM Voltage: B = 120, 277 Driver: D = ZT Finish Color: E = WH, BL Options: F = F, CP</p>
	<p>Head only MSSH30 (Y) (Z)LM (A) G3 (C) (E)</p>	<p>Beam Spread: Y = S1, N1, F1 Lumens: Z = 10LM, 20LM, 30LM CCT: A = 27K, 30K, 35K, 40K CRI: C = 80CRI, 90CRI, 97CRI¹ Finish Color: E = WH, BL</p>