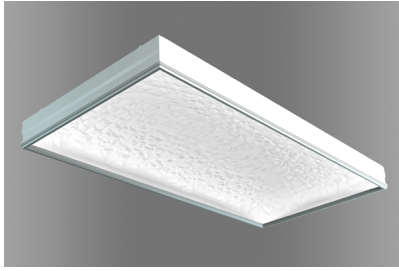# MARK ARCHITECTURAL LIGHTING™

CHISEL 2'X4'
Recessed – Static White

CHISEL reveals the shape of light with soft luminous gradients and textures that add depth and character to any design. 5 forms, 4 luminous effects and 3 textured patterns allow for endless options to create clusters and unique layouts that deliver high quality volumetric lighting for practical performance and design impact.

Type:

Project:

Catalog Number:

DO NOT TYPE HERE. Autopopulated field.

Specification Features

Housing
Extruded aluminum housing. 2'x4' 38 lbs.

Finish
Painted after fabrication, high reflectance matte white.

Reflector
High-impact, 97% reflective vacuum-formed polymer reflector with textured pattern and satin white finish.

Mounting
Recessed. Available 9/16" and 15/16" flat, 9/16" screw slot or 9/16" narrow.

Lens
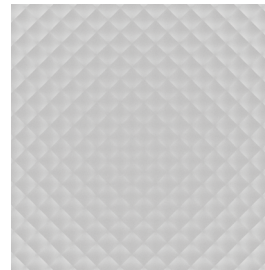Clear acrylic sanitary lens option seals off aperture for easy wipe down in healthcare applications.

UGR
Data available on page 4.

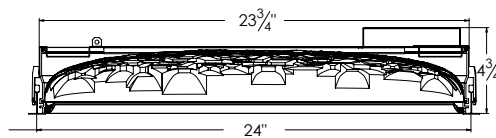See page 2 for additional specifications.

Texture

MNML

WVE

PYR

Section View

23 3/4"
4 3/4"
24"

Ordering

Example: CHSL 2X4 G9 80CRI 35K 5000LM WVE 2SDP DARK 120 ZT

Series	Size		Ceiling Trim		LED Color Rendering		LED Color Temp		LED Output[2]	
CHSL	2X4	2'X4'	DF[1]	Tegular tee slot	80CRI	80+ CRI	27K	2700K	2000LM	2000 Lumens
			G9	9/16" inverted tee	90CRI	90+ CRI	30K	3000K	3000LM	3000 Lumens
			G15	15/16" inverted tee			35K	3500K	4000LM	4000 Lumens
							40K	4000K	5000LM	5000 Lumens
							50K	5000K	6000LM	6000 Lumens
							65K	6500K	7000LM	7000 Lumens
									8000LM	8000 Lumens

Texture		Directional Gradient		Minimum Dimming Level		Voltage		Emergency Options		Control Input		Options	
MNML	Minimalist	1SD[3]	Side	DARK[5]	Constant Current, Dimming to < 1%	120	120V	E10WCP[7]	10-watt emergency battery pack	ZT	0-10V	CP[9]	Chicago plenum
WVE	Weave	2SDP[3]	Parallel	MIN1[6]	Constant Current, Dimming to 1%	277	277V	EMG[7,8]	Emergency generator power	NLIGHT	nLight enabled	PWS	6' pre-wire, 3/8" diameter, 18 gauge
PYR	Pyramid	4SD	All			347	347V			NLTAIR2	nLight Air	SNL	Sanitary Lens
		4SDI[4]	4 sides, Individual Control							DALI	DALI	AMF[10]	Anti-Microbial Finish
			(see page 2)							DMX	DMX512/RDM		
										ECOD	Lutron Hi-Lume Digital driver		

Notes
1. Available for 9/16" grid only.
2. See table for delivered lumens/fixture.
3. Incorporates longest side of luminiare.
4. Available with DMX and max lumen package only.
5. DARK not available with ECOD.
6. MIN1 not available with NLIGHT, NLTAIR2 or DALI.
7. Not available with 347 option.
8. EMG option requires a connection to existing powered nLight network. Power is provided from a separate nLight fixture.
9. Not available with NLIGHT, NLTAIR2, or DMX options.
10. Must select SNL with AMF.

Specification Features (continued)

Electrical
Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000).

Color Consistency
The Acuity Brands circuit boards for the linear LED components use a precise binning algorithm which creates a consistent color temperature from board to board. Color variation is no greater than a 2.5 Step MacAdam (2.5SDCM) along the black body locus from board to board.

Driver
eldoLED® driver provides natural dimming with smooth, continuous and flicker-free deep dimming. Supports operation between 120VAC and 277 VAC, with low inrush current (NEMA 410) and THD < 20%. Meets FCC Title 47 C.F.R. 15 Class A or Class B requirements. Lutron high performance driver options also available.

Integrated Controls
Optional nLight® embedded controls make luminaire addressable- allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Simply connect all the nLight enabled control devices using standard CAT5 Cabling. (Input option: NLIGHT)

Certification
UL Certified to meet U.S. and Canadian standards, rated for damp locations.

Healthcare Applications
This fixture is suitable for use in healthcare applications such as patient rooms, nursing stations, long term care and hallways when the optional sanitary lens and antimicrobial paint are specified.
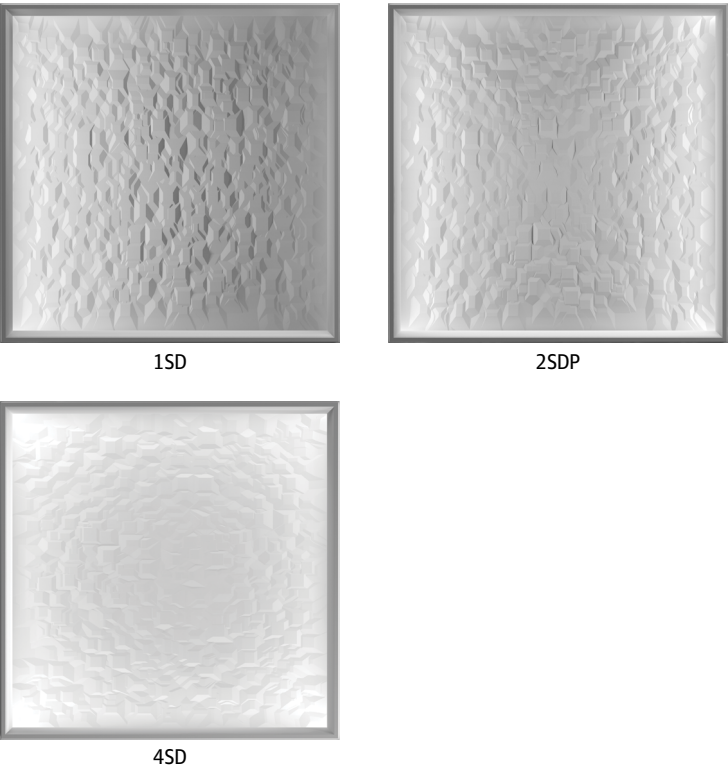
Warranty
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

Fixture Performance

	Directional Gradient	Delivred Lumens	Inputs Watts	Lumens/ Watts
2000	1SD	1931	17.2	112
2000	2SDP	1969	16.8	117
2000	4SD	1896	16.7	114
3000	1SD	2754	24.6	112
3000	2SDP	2848	24.0	119
3000	4SD	2760	23.8	116
4000	1SD	3691	33.4	110
4000	2SDP	3866	32.6	119
4000	4SD	3766	32.1	117
5000	2SDP	5112	43.5	117
5000	4SD	5018	43.0	117
6000	2SDP	6066	52.6	115
6000	4SD	5993	51.8	116
7000	2SDP	7111	62.8	113
7000	4SD	7037	61.6	114
8000	2SDP	7900	70.8	112
8000	4SD	7862	69.5	113

Directional Gradient

1SD

2SDP

4SD

MARK
ARCHITECTURAL
LIGHTING™

CHISEL 2'X4'
Recessed – Static White

CHSL 2X4

Technical Drawing

$4\frac{7}{8}$"

$47\frac{3}{4}$"

$4\frac{7}{8}$"

$23\frac{3}{4}$"

Ceiling Trim

G9	DF	DF	G15
G9 shown with 9/16" inverted tee and flat tile	DF shown with 9/16" slot grid and tegular tile	DF shown with 9/16" inverted tee and tegular tile	G15 shown with 15/16" inverted tee and flat tile

⚡ Capable Luminaire
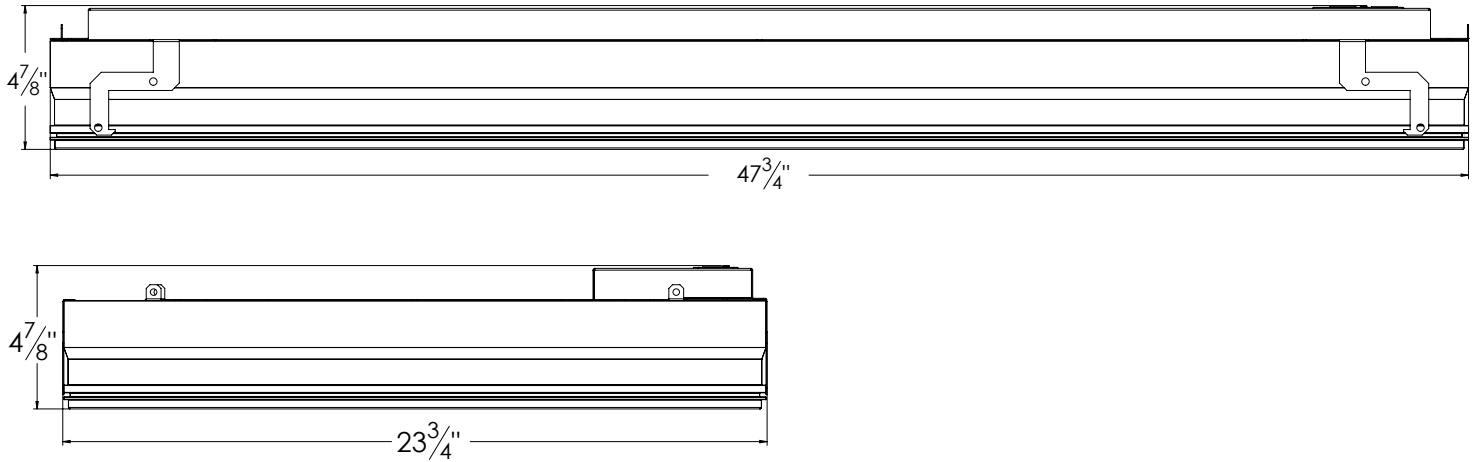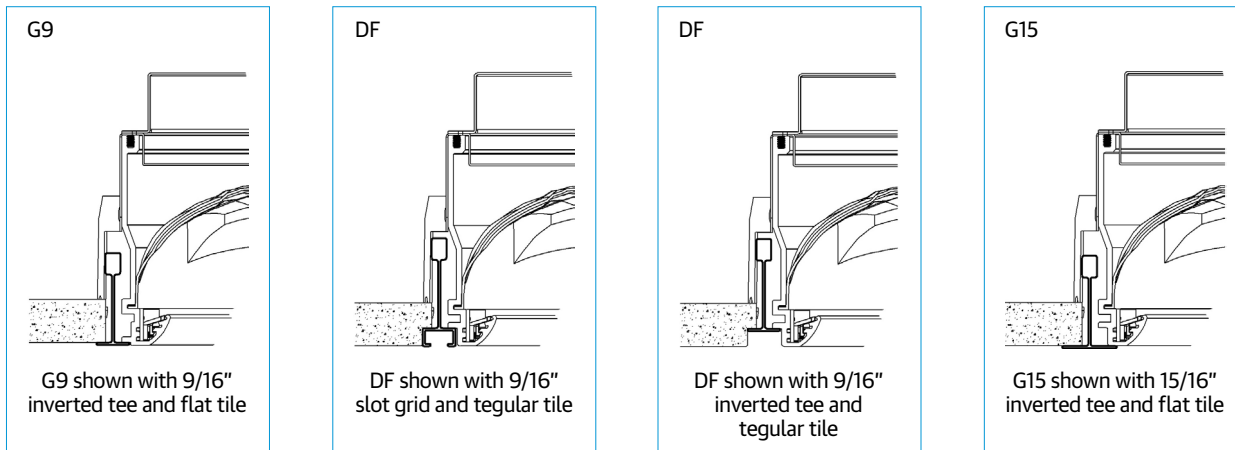
This item is an A+ capable luminaire, which has been designed and tested to provided consistent color appearance and out-of-the-box control capability with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested meet the Acuity Brands' specification for chromatic consistency - including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates.

To learn more about A+, visit www.acuitybrands.com/aplus.

CHISEL 2'X4'
Recessed – Static White

Photometrics

CHSL 2X4 DF 80CRI 35K 4000LM MNML 4SD DARK 120V ZT, 3702 delivered lumens, 32.3 watts, Test no. ISF183019, tested in accordance to IESNA LM-79

Polar Candela Distribution
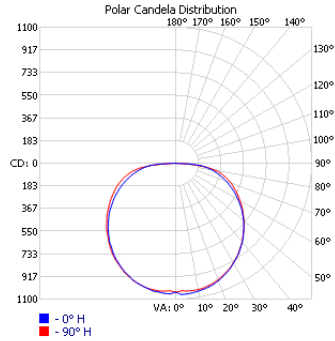
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	837.5	22.60%
0-40	1391.1	37.60%
0-60	2572	69.50%
60-90	1128.9	30.50%
70-100	610.4	16.50%
90-120	1.2	0%
0-90	3700.9	100%
90-180	1.3	0%
0-180	3702.2	100%

Candlepower Distribution

| Angle	Plane								
	0	22.5	45	67.5	90	112.5	135	157.5	180
0	1043	1043	1043	1043	1043	1043	1043	1043	1043
5	1061	1052	1050	1042	1037	1042	1045	1051	1057
10	1051	1043	1044	1039	1038	1042	1043	1040	1050
15	1036	1027	1025	1026	1025	1027	1030	1024	1030
20	1010	1000	1002	1002	1002	1005	1002	996	1007
25	975	968	967	970	970	969	968	963	972
30	934	928	930	928	930	929	930	923	930
35	890	880	882	888	885	884	879	875	885
40	836	829	828	833	833	831	824	825	833
45	776	767	772	773	776	771	763	766	774
50	716	709	713	719	722	710	700	705	711
55	652	640	649	657	661	649	638	643	647
60	580	574	588	597	599	588	577	576	580
65	511	507	523	536	540	525	516	505	509
70	442	438	462	476	479	467	454	439	440
75	365	372	395	407	409	403	392	374	369
80	291	297	313	327	329	324	313	299	294
85	203	180	175	163	163	168	189	197	210
90	1	1	1	1	0	1	2	5	21

CHSL 2X4 DF 80CRI 35K 4000LM MNML 1SD DARK 120V ZT, 3552 delivered lumens, 33.5 watts, Test no. ISF183029, tested in accordance to IESNA LM-79

Polar Candela Distribution
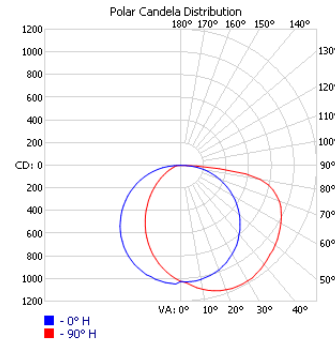
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	818.2	23%
0-40	1354.6	38.10%
0-60	2485.4	70%
60-90	1066.7	30%
70-100	570.5	16.10%
90-120	0.2	0%
0-90	3552.1	100%
90-180	0.3	0%
0-180	3552.3	100%

Candlepower Distribution

Angle	Plane								
	0	22.5	45	67.5	90	112.5	135	157.5	180
0	1025	1025	1025	1025	1025	1025	1025	1025	1025
5	1030	1045	1064	1061	1062	1070	1067	1051	1045
10	1023	1059	1094	1108	1110	1096	1096	1062	1036
15	1006	1061	1114	1140	1146	1135	1113	1064	1017
20	983	1058	1124	1162	1168	1156	1122	1061	996
25	950	1045	1126	1171	1179	1165	1125	1048	966
30	906	1017	1110	1165	1178	1160	1112	1025	925
35	860	982	1084	1150	1164	1141	1086	992	877
40	799	938	1048	1120	1143	1115	1048	948	821
45	739	892	1010	1093	1113	1078	1006	899	759
50	675	841	973	1063	1089	1043	960	849	689
55	604	784	925	1029	1056	1006	913	791	617
60	527	716	880	992	1020	964	863	726	541
65	450	653	833	949	977	918	810	660	458
70	370	580	774	893	926	861	753	587	378
75	284	508	696	811	844	783	683	513	294
80	200	409	578	686	711	665	568	421	204
85	105	236	316	316	341	333	353	260	112
90	1	1	1	0	0	0	0	0	4

Lumen Package	UGR (70% 50% 20% reflectance using a 4H x 8H room size)					
	Crosswise			Endwise		
	1SD	2SDP	4SD	1SD	2SDP	4SD
2000LM	16.2	15.8	16.6	22.5	18.5	17.5
3000LM	17.4	17.1	17.9	23.8	19.8	18.8
4000LM	18.4	18.1	18.9	24.8	20.8	19.9
5000LM		19.1	19.9		21.8	20.9
6000LM		19.7	20.6		22.4	21.5
7000LM		20.2	21.1		22.9	22.1
8000LM		21.5	20.6		22.4	23.3

UGR varies based on luminaire options and is affected by application dependent parameters. Numbers depicted here are considered "Luminaire-UGR" and/or "Point-UGR" values. To determine a more precise maximum UGR value ("Application-UGR"), a full lighting design layout should be completed with the selected luminaire configuration for each application. Click here for more information on UGR.