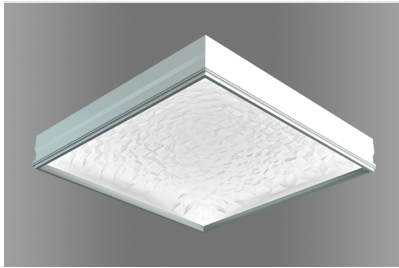


MARK ARCHITECTURAL LIGHTING™



CHISEL 2'X2'

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'x2' 20 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

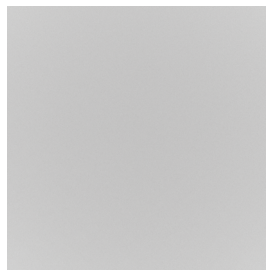
Clear acrylic sanitary lens option seals off aperture for easy wipe down in healthcare applications.

UGR

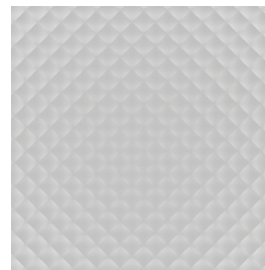
Data available on page 5.

See page 2 for additional specifications.

Texture



MNML

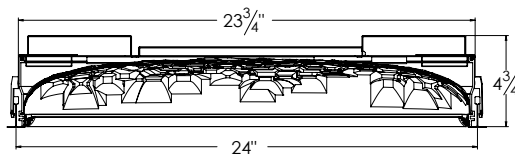


WVE



PYR

Section View



Declare. eldoLED
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Ordering

Example: CHSL 2X2 G9 80CRI 35K 3000LM PYR 2SDP DARK MVOLT ZT

CHSL		2X2											
Series		Size		Ceiling Trim		LED Color Rendering		LED Color Temp		LED Output ²			
CHSL		2X2 2'X2'		DF ¹	Tegular tee slot	80CRI	80+ CRI	27K	2700K	1000LM	1000 Lumens		
				G9	9/16" inverted tee	90CRI	90+ CRI	30K	3000K	1500LM	1500 Lumens		
				G15	15/16" inverted tee			35K	3500K	2000LM	2000 Lumens		
								40K	4000K	2500LM	2500 Lumens		
								50K	5000K	3000LM	3000 Lumens		
								65K	6500K	3500LM	3500 Lumens		
										4000LM	4000 Lumens		
Texture		Directional Gradient		Minimum Dimming Level		Voltage		Emergency Options		Control Input		Options	
MNML	Minimalist	1SD	Side	DARK ⁴	Constant Current,	120	120V	E10WCP ⁶	10-watt emergency	ZT	0-10V	CP ⁸	Chicago plenum
WVE	Weave	2SDP	Parallel		Dimming to < 1%	277	277V		battery pack	NLIGHT	nLight enabled	SNL	Sanitary lens
PYR	Pyramid	2SDC	Corner	MIN1 ⁵	Constant Current,	347	347V	EMG ^{6,7}	Emergency	NLTAIR2	nLight Air	AMF ⁹	Anti-Microbial finish
		4SD	All		Dimming to 1%				generator power	DALI	DALI	PWS	6' pre-wire, 3/8" diameter,
		4SDI ³	4 sides, Individual							DMX	DMX512/RDM		18 gauge
			Control							ECOD	Lutron Hi-Lume		
			(see page 2)								Digital driver		

Notes

- Available for 9/16" grid only.
- See table for delivered lumens/fixture.
- Available with DMX and max lumen package only.
- DARK not available with ECOD.
- MIN1 not available with NLIGHT, NLTAIR2 or DALI.
- Not available with 347 option.
- EMG option requires a connection to existing powered nLight network. Power is provided from a separate nLight fixture.
- Not available with NLIGHT, NLTAIR2, or DMX options.
- 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.

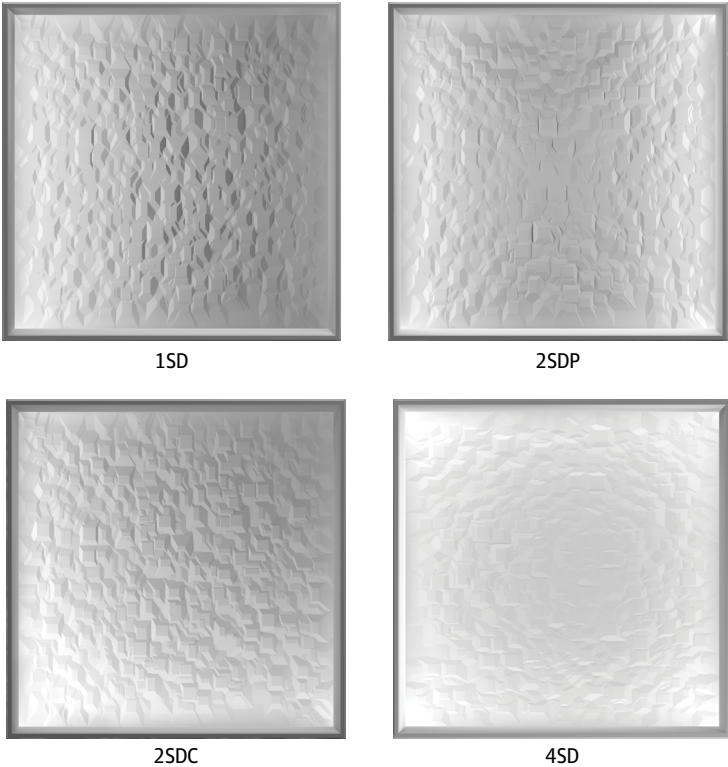
Warranty
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.

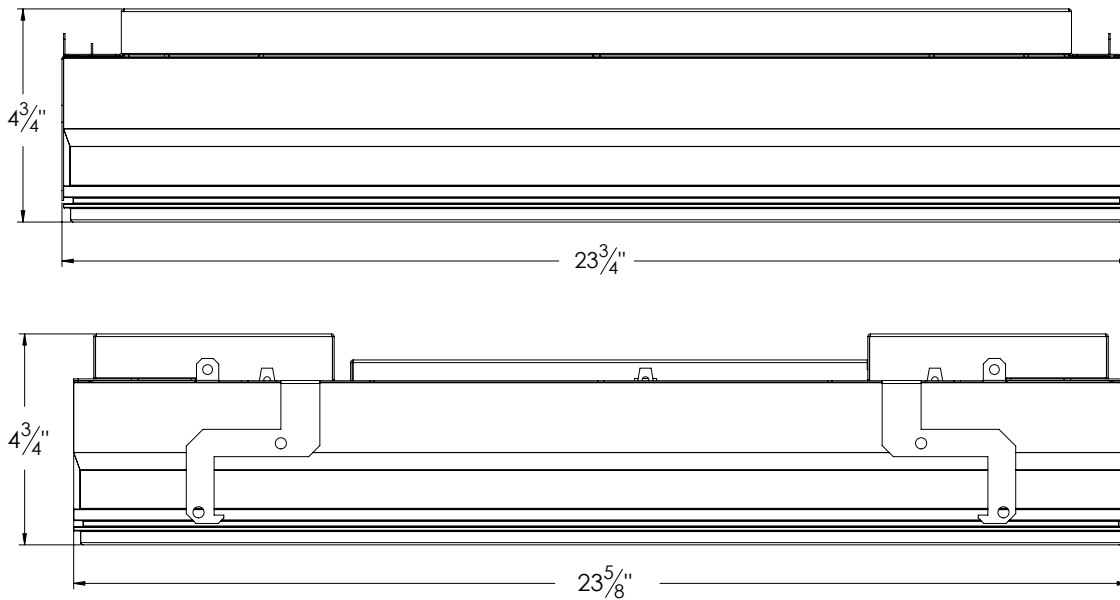
Fixture Performance

	Directional Gradient	Delivred Lumens	Inputs Watts	Lumens/ Watts
1000LM	1SD	818	7.7	106
1000LM	2SDP	877	8.1	109
1000LM	4SD	862	8.0	108
1500LM	1SD	1324	13.0	102
1500LM	2SDP	1341	12.7	106
1500LM	4SD	1334	12.5	107
2000LM	1SD	1892	19.1	99
2000LM	2SDP	1912	17.8	108
2000LM	4SD	1910	17.4	110
2500LM	2SDP	2407	22.2	109
2500LM	4SD	2409	21.6	112
3000LM	2SDP	2808	26.0	108
3000LM	4SD	2840	25.4	112
3500LM	2SDP	3317	31.2	106
3500LM	4SD	3382	30.2	112
4000LM	2SDP	3893	37.2	105
4000LM	4SD	3992	35.9	111

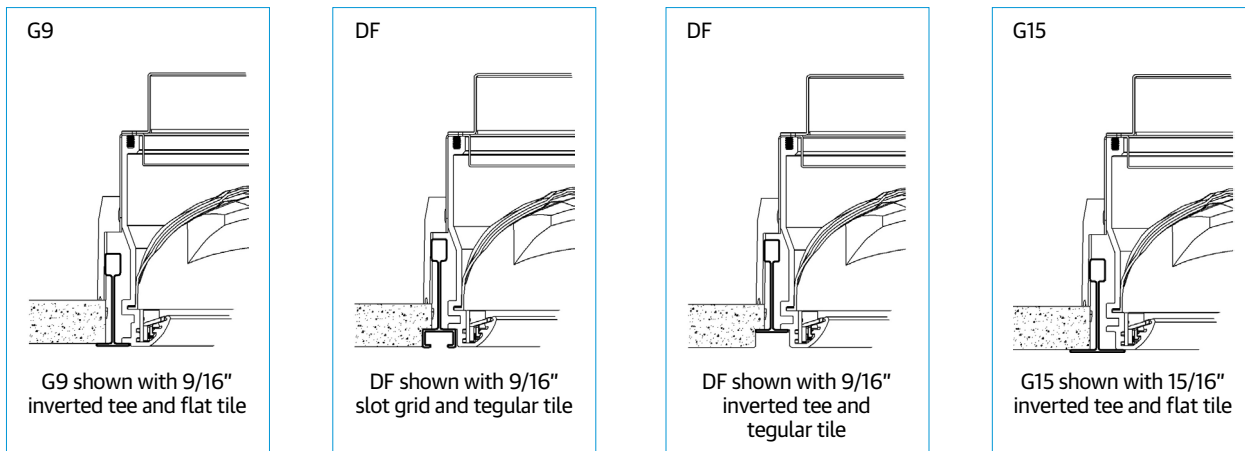
Directional Gradient



Technical Drawing



Ceiling Trim



A+ Capable Luminaire

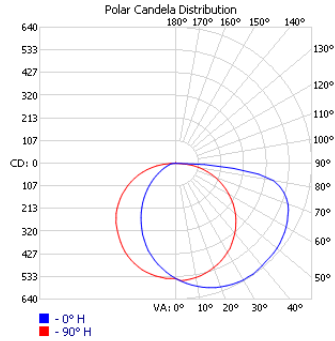
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control capability with simple commissioning when used with Acuity Brands controls products.

All configurations of this luminaire are calibrated and tested to 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.

Photometrics

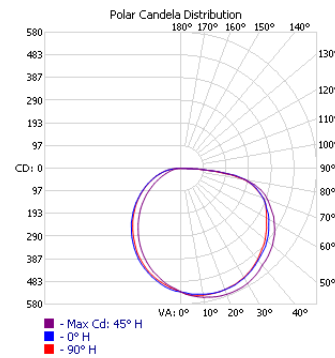
CHSL 2X2 DF 80CRI 35K 2000LM MNML 1SD DARK 120V ZT, 1937 delivered lumens, 19.2 watts, Test no. ISF38488, tested in accordance to IESNA LM-79



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	431.1	22.30%
0-40	716.2	37%
0-60	1335.5	68.90%
60-90	597.5	30.80%
70-100	320.3	16.50%
90-120	2	0.10%
0-90	1933	99.80%
90-180	4	0.20%
0-180	1937	100%

Angle	Candlepower Distribution								
	Plane								
	0	22.5	45	67.5	90	112.5	135	157.5	180
0	543	543	543	543	543	543	543	543	543
5	567	568	564	555	552	536	522	515	514
10	588	587	578	560	546	520	498	485	483
15	606	602	587	561	536	501	472	453	448
20	619	611	592	557	522	478	440	417	410
25	629	619	595	550	506	452	407	379	370
30	635	622	591	539	485	423	371	337	326
35	636	619	580	523	460	389	331	296	284
40	631	613	566	503	432	354	290	255	243
45	626	606	550	479	400	317	250	212	201
50	622	597	531	451	366	278	210	174	162
55	612	585	509	420	329	236	171	137	127
60	600	566	484	383	287	195	133	105	95
65	582	541	451	344	245	154	100	77	70
70	562	513	414	303	202	112	72	56	50
75	526	464	361	252	154	76	49	39	35
80	466	396	287	187	107	46	31	27	27
85	272	224	160	95	51	20	15	17	18
90	1	1	0	0	0	0	0	0	1

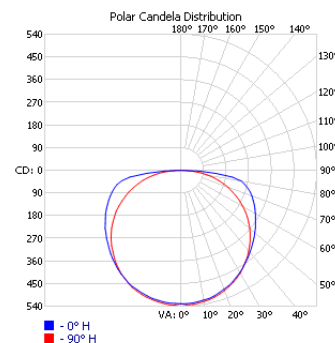
CHSL 2X2 DF 80CRI 35K 2000LM MNML 2SDC DARK 120V ZT, 1863 delivered lumens, 17.6 watts, Test no. ISF38489, tested in accordance to IESNA LM-79



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	417	22.40%
0-40	692.1	37.10%
0-60	1287.5	69.10%
60-90	576	30.90%
70-100	309	16.60%
90-120	0.2	0%
0-90	1863.5	100%
90-180	0.2	0%
0-180	1863.7	100%

Angle	Candlepower Distribution								
	Plane								
	0	22.5	45	67.5	90	112.5	135	157.5	180
0	527	527	527	527	527	527	527	527	527
5	539	543	546	543	543	534	527	518	518
10	546	556	559	553	550	536	521	505	500
15	551	563	568	560	552	533	512	491	479
20	551	567	572	562	551	526	500	470	454
25	549	567	572	561	547	516	482	449	427
30	541	561	568	556	538	503	462	425	396
35	529	550	557	548	526	484	438	395	363
40	513	538	540	532	509	463	411	366	328
45	498	524	528	518	489	441	383	334	293
50	480	507	511	502	470	416	353	302	258
55	458	485	489	478	447	389	323	268	221
60	434	459	460	450	422	359	292	235	187
65	404	429	428	425	401	334	258	202	155
70	375	391	395	399	376	307	232	170	123
75	335	345	353	348	330	266	206	139	94
80	280	286	281	280	275	212	158	108	68
85	158	156	158	147	143	110	88	61	37
90	2	1	1	0	0	0	0	0	0

CHSL 2X2 DF 80CRI 35K 2000LM MNML 2SDC DARK 120V ZT, 1896 delivered lumens, 17.7 watts, Test no. ISF38490, tested in accordance to IESNA LM-79



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	421.7	22.20%
0-40	701.3	37%
0-60	1310	69.10%
60-90	586.5	30.90%
70-100	313.5	16.50%
90-120	0.4	0%
0-90	1896.5	100%
90-180	0.5	0%
0-180	1896.9	100%

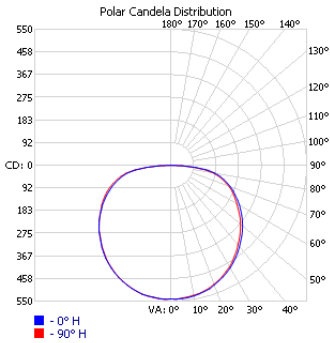
Angle	Candlepower Distribution								
	Plane								
	0	22.5	45	67.5	90	112.5	135	157.5	180
0	530	530	530	530	530	530	530	530	530
5	529	526	529	529	535	531	529	526	529
10	523	521	524	526	529	527	523	523	524
15	516	512	516	516	521	519	517	516	516
20	502	500	502	504	508	507	506	505	505
25	488	484	486	487	492	490	490	488	493
30	469	466	465	468	472	470	470	471	475
35	448	446	442	442	446	446	445	450	454
40	427	422	416	416	419	418	416	425	433
45	405	400	389	388	390	388	391	403	410
50	384	377	362	358	358	358	365	381	388
55	362	353	333	322	323	325	335	355	366
60	342	329	303	286	283	288	303	330	345
65	322	304	271	245	243	247	271	302	321
70	301	279	239	206	202	208	238	275	298
75	276	249	203	165	156	164	201	245	273
80	243	210	159	119	110	119	158	202	238
85	139	115	88	58	56	62	88	111	134
90	2	2	1	1	1	1	1	2	2

MARK
ARCHITECTURAL
LIGHTING™

CHISEL 2'X2'
Recessed – Static White

Photometrics

CHSL 2X2 DF 80CRI 35K 2000LM MNML 4SD DARK 120V ZT, 1922 delivered lumens, 17.4 watts, Test no. ISF38489, tested in accordance to IESNA LM-79



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	428.8	22.30%
0-40	712.1	37.10%
0-60	1326	69%
60-90	595.7	31%
70-100	319.8	16.60%
90-120	0.4	0%
0-90	1921.7	100%
90-180	0.4	0%
0-180	1922.1	100%

Angle	Candlepower Distribution								
	Plane								
	0	22.5	45	67.5	90	112.5	135	157.5	180
0	541	541	541	541	541	541	541	541	541
5	541	538	539	537	539	538	539	539	541
10	537	533	533	532	534	533	534	533	537
15	528	524	525	522	526	523	524	524	528
20	515	511	513	509	512	511	512	512	516
25	499	495	496	491	495	493	495	496	500
30	480	475	472	471	475	472	473	476	481
35	457	451	448	447	449	447	448	453	459
40	432	427	420	421	422	421	420	426	434
45	406	399	391	394	396	393	392	400	406
50	379	371	363	365	368	366	363	372	379
55	350	341	333	334	338	334	332	341	349
60	321	308	301	303	308	302	299	308	319
65	288	275	267	270	280	273	266	274	286
70	258	243	236	242	251	244	237	240	253
75	223	204	205	205	215	206	205	204	217
80	180	164	157	159	171	162	159	162	177
85	102	91	88	83	90	86	89	89	98
90	2	2	2	2	1	2	2	2	1

Lumen Package	UGR (70% 50% 20% reflectance using a 4H x 8H room size)					
	Crosswise			Endwise		
	2SDC	2SDP	4SD	2SDC	2SDP	4SD
1000LM	19.6	18	16.6	12.9	15.5	16.6
1500LM	21.1	19.5	18.1	14.4	17	18.1
2000LM	22.3	20.7	19.4	15.6	18.2	19.4
2500LM	23.1	21.5	20.2	16.4	19	20.2
3000LM	23.6	22.1	20.8	17	19.5	20.8
3500LM	24.2	22.6	21.4	17.6	20.1	21.4
4000LM	24.8	23.2	22	18.1	20.7	22

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](#).