



A.L.P.
Hexabolic™ 2
3/4" x 3/4" x 1/2" Plastic Parabolic Louver

Hexabolic™ 2

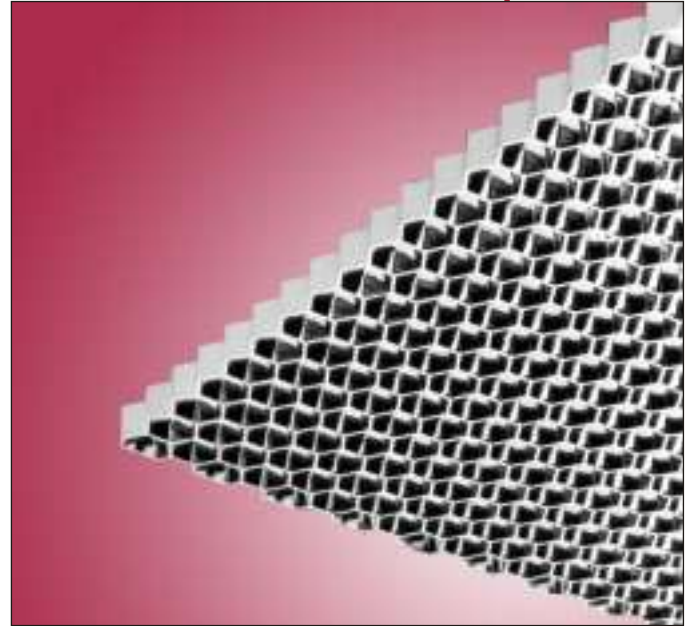
DESCRIPTION

Hexabolic™ 2 is a **honeycomb design** composed of a pattern of interlocking hexagonal-shaped cells integrally molded into a single light-weight plastic element of **structural rigidity**. The mirror-like coating acts to provide for excellent **low brightness control**, and high efficiency in a small cell 3/4" x 3/4" x 1/2" high **hexagonal shape** parabolic louver. This distinctive louver provides a 40° shielding, with a louver efficiency of not less than 48.9% and a V.C.P. index rating of .99 (semi-specular finish).

Can be ordered in polystyrene or optional acrylic.

Hexabolic™ 2 louvers are molded in a 2' x 4' size and are designed for luminous ceiling installations. They are available in either 1' x 4', 2' x 2' or 2' x 4' louver sizes.

We recommend the **Durabolic Finish** for all specular plastic louvers. This Durabolic Finish allows ease of handling and maintenance.

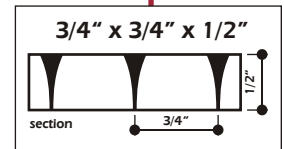


Hexabolic™ 2

APPLICATIONS

- Medical Facilities
- Conference Rooms
- Commercial & Municipal Buildings
- Entries & Corridors
- Perimeter Lighting
- Office Task Areas
- VDT Computer Rooms

1' x 4'
 2' x 2'
 2' x 4'



To Order: Select description from each column and include "options" if applicable.

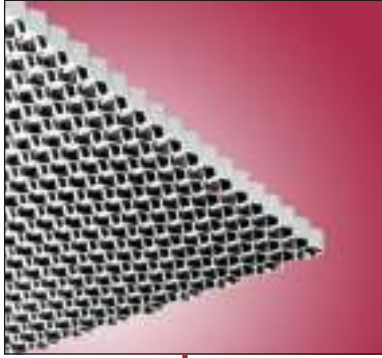
Example: HB2 24 SPS CUT 21-1/2X44-1/2

Louver	Nominal Size	Material / Finish	Fabrication Options
<p>Hexabolic™ 2 3/4" hexagonal cells</p> <p>enter <u>HB2</u></p>	<p>14 — 11-3/4" x 47-3/4" 22 — 23-3/4" x 23-3/4" 24 — 23-3/4" x 47-3/4"</p> <p>enter size</p>	<p>SPS — Specular Silver, Polystyrene SPG — Specular Gold, Polystyrene, Durabolic SSS — Semi-Specular Silver, Polystyrene DSPS — Durabolic Specular Silver, Polystyrene* SPSA — Specular Silver Acrylic SPGA — Specular Gold, Durabolic Acrylic SSSA — Semi-Specular Acrylic DSPSA — Durabolic Specular Silver Acrylic*</p> <p>enter finish</p> <p>* Optional Durabolic Coating</p>	<p>CUT — Cut to Size AN — Avoida-Notch Framing Note: Cut to Size - on Cut to Size orders O.D. must be provided. Cut to Size louvers must be able to fit directly into the doorframe. Note: Avoida-Notch - O.D. must be provided. Avoida-Notch to be used when louver cannot fit into the doorframe.</p> <p>enter options</p>

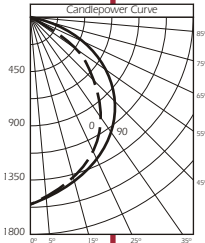
Note: All Hexabolic™ 2 louvers are destaticized before and after fabrication to ensure a high quality product.

**For more information, or to place an order,
 contact Customer Service.**

HEXABOLIC™ 2 PHOTOMETRICS



TS: TECHNICAL SUPPORT
 Building Acoustics & Lighting Laboratories,
 Inc., Test Report No. 5267.0, Date 2/24/88.
Description: Commercially Available 2' x 4'
 Troffer 4/40W with Specular Silver
 Polystyrene Louver.
 Luminary Watts = 178, Reflection = 90%
 Catalog Number: Louver **HB2-24SPS-S**
 Lamp Type: F40T12RS/WW, Lumens: 3200,
 Number of Lamps: 4



* Other testing results available upon request.

Total Luminaire Efficiency:	47.8%
Plane:	0° 90°
Spacing Criteria:	1.4 1.4
Shielding Angles:	40 40

Specifications

Parabolic Louvers shall be Hexabolic™ 2 as manufactured by A.L.P. Lighting Components, Inc. and shall be injection molded of polystyrene or acrylic with all parabolic surfaces prepared with a primary undercoat and highly specular vacuum metalized finish.

The cells shall be hexagonal in shape with each vertical wall a parabolic curve having its focus along the edge of the opposite parallel wall and a height of 1/2". Cell size opening to be 9/16" back opening and 11/16" front opening. This allows more light through the louver for increased efficiency. Cell dimensions shall be 3/4" x 3/4" x 1/2" and shall provide 40° shielding with a louver efficiency of not less than 47.8% (Specular Silver), and has a VCP rating of .99.

Lighting Fixtures — Panels will sometimes require additional cutting for proper installation. Louver panels can also be specified with the **Avoida-Notch™** optional frame — to specify add suffix -AN50 to the base catalog number. For color designation use B for black, W for white. For specular finish use SP. The color designation should follow SP (i.e., G for gold, S for silver).

Lighted Ceilings — Louver panels are designed to fit any standard 1' x 4', 2' x 2' or 2' x 4' tee bar grid system.

Special Sizes — Special sizes are available, contact A.L.P.

CANDLE POWER DISTRIBUTION

VER. ANG.	HORIZONTAL ANGLE					ZONAL LUMENS
	0.0	22.5	45.0	67.5	90.0	
0.0	3109	3109	3109	3109	3109	
5.0	3131	3121	3141	3137	3156	299.3
15.0	3111	3106	3140	3145	3174	888.2
25.0	2941	2928	2952	3008	3039	1374.5
35.0	2725	2659	2646	2724	2804	1695.1
45.0	2240	2204	2033	2103	2335	1670.4
55.0	395	174	232	226	85	195.6
65.0	0	0	0	0	8	0.9
75.0	0	0	0	0	0	0.0
85.0	0	0	0	0	0	0.0
90.0	0	0	0	0	0	0.0

LUMINANCE DATA IN FOOTLAMBERTS

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0-30	2562	20.0	41.8
0-40	4257	33.3	69.5
0-60	6123	47.8	100.0
0-90	6124	47.8	100.0
90-180	0	0.0	0.0
0-180	6124	47.8	100.0

ANG. IN DEG.	AVG. 0-DEG.	AVG. 90-DEG.
45	1557	2151
55	70	768
65	9	72
75	0	0
85	0	0

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

Ceiling Wall RCR	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20																									
	80				70				50				30				10				00					
	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10	70	50	30	10		
0	57	57	57	57	56	56	56	53	53	53	51	51	51	49	49	49	49	48	48	48	46	46	46	45	45	44
1	54	53	51	50	53	51	50	49	50	49	48	48	47	46	46	46	45	45	44	44	43	43	42	42	41	40
2	51	48	46	44	50	48	46	44	46	44	43	45	43	42	43	42	43	42	41	40	39	37	37	37	37	37
3	48	44	42	40	47	44	41	39	42	40	39	41	40	38	40	39	37	37	37	37	37	37	37	37	37	37
4	45	41	38	35	44	40	37	35	39	37	35	38	36	34	37	35	34	33	33	33	32	32	32	32	32	32
5	42	37	34	32	41	37	34	31	36	33	31	35	33	31	34	32	31	30	30	30	29	29	29	29	29	29
6	39	34	31	28	38	34	31	28	33	30	28	32	30	28	32	29	28	27	27	27	27	27	27	27	27	27
7	36	31	28	25	36	31	27	25	30	27	25	29	27	25	29	27	25	24	24	24	24	24	24	24	24	24
8	34	28	25	22	33	28	24	22	27	24	22	27	24	22	26	24	22	21	21	21	21	21	21	21	21	21
9	31	25	22	19	30	25	22	19	24	21	19	24	21	19	23	21	19	18	18	18	18	18	18	18	18	18
10	29	23	19	17	28	23	19	17	22	19	17	22	19	17	21	19	17	16	16	16	16	16	16	16	16	16

VISUAL COMFORT PROBABILITY TABLE 100 FC Work Plane Illumination Work Plane FC = 100

ROOM DIM	LUMINARIES LENGTHWISE								LUMINARIES CROSSWISE										
	MOUNTING HEIGHT				MOUNTING HEIGHT				MOUNTING HEIGHT				MOUNTING HEIGHT						
	W	L	8.5	10	13	16	8.5	10	13	16	W	L	8.5	10	13	16			
20	20	95	96	89	76	95	97	90	75	20	20	95	96	89	76	95	97	90	75
20	30	96	97	93	82	96	98	94	81	20	30	96	97	93	82	96	98	94	81
20	40	97	97	94	86	97	98	95	85	20	40	97	97	94	86	97	98	95	85
20	60	98	98	95	88	97	98	96	88	20	60	98	98	95	88	97	98	96	88
30	20	97	97	92	80	96	98	93	79	30	20	97	97	92	80	96	98	93	79
30	30	98	98	95	85	97	98	95	85	30	30	98	98	95	85	97	98	95	85
30	40	98	98	96	88	98	99	96	88	30	40	98	98	96	88	98	99	96	88
30	60	98	99	97	90	98	99	97	90	30	60	98	99	97	90	98	99	97	90
30	80	99	99	97	92	98	98	98	91	30	80	99	99	97	92	98	98	98	91
40	20	98	98	94	84	97	98	95	83	40	20	98	98	94	84	97	98	95	83
40	30	98	98	96	88	98	99	96	88	40	30	98	98	96	88	98	99	96	88
40	40	99	99	97	91	98	99	97	90	40	40	99	99	97	91	98	99	97	90
40	60	99	99	98	92	99	99	98	92	40	60	99	99	98	92	99	99	98	92
40	80	99	99	98	94	99	99	98	93	40	80	99	99	98	94	99	99	98	93
40	100	99	99	98	94	99	99	98	94	40	100	99	99	98	94	99	99	98	94
60	30	99	99	97	90	98	99	97	90	60	30	99	99	97	90	98	99	97	90
60	40	99	99	98	92	99	99	98	92	60	40	99	99	98	92	99	99	98	92
60	60	99	99	98	94	99	99	98	93	60	60	99	99	98	94	99	99	98	93
60	80	99	99	98	95	99	99	98	94	60	80	99	99	98	95	99	99	98	94
60	100	99	99	99	95	99	99	99	95	60	100	99	99	99	95	99	99	99	95
100	40	99	99	98	94	99	99	98	94	100	40	99	99	98	94	99	99	98	94
100	60	99	99	99	95	99	99	99	95	100	60	99	99	99	95	99	99	99	95
100	80	99	99	99	96	99	99	99	96	100	80	99	99	99	96	99	99	99	96
100	100	99	99	99	97	99	99	99	97	100	100	99	99	99	97	99	99	99	97



A.L.P.
 LIGHTING COMPONENTS, INC.
 CORPORATE HQ: CHICAGO, IL U.S.A.
 WEB SITE: WWW.ALPHIGHTING.COM

For Customer Support and Service Contact us at:

(877) ALP-ITG1 • FAX: (800) 438-2500

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