



A.L.P.

Para-Lite 4

3/4" x 3/4" x 1/2" Plastic Parabolic Louver

Para-Lite 4

DESCRIPTION

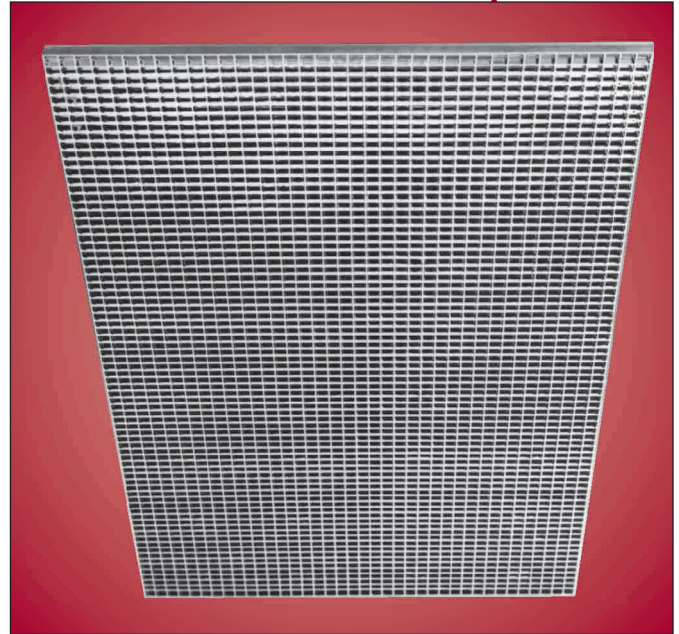
Para-Lite 4, a **3/4" x 3/4" x 1/2" parabolic louver** is specifically designed for today's and tomorrow's energy and lighting needs. A medium cell louver providing **40° shielding** and a **V.C.P. index of .96**. Louver efficiency 53.3%. They offer maximum in **illuminating efficiency** while maintaining a discrete **low brightness appearance**. Efficiency and brightness control - the ultimate combination to meet today's energy concerns.

Para-Lite 4 is the **ideal solution** where a **small cell parabolic louver** is desired and where greater lighting efficiency is required. These louvers are **easily installed** in lighted ceiling fixtures **in new or retrofit** installations. Little or no modification of the louver panel is required.

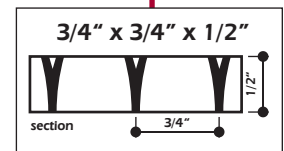
We recommend the **Durabolic Finish** for all specular plastic louvers. This Durabolic Finish allows ease of handling and maintenance.

APPLICATIONS

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



Para-Lite 4



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

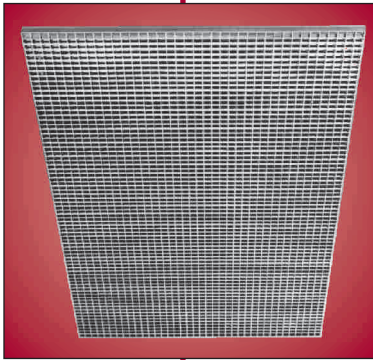
Example: PL4 24 SPS CUT 21-1/2X44-1/2

Louver	Nominal Size	Material / Finish	Fabrication Options
Para-Lite 4 3/4"x3/4"x 1/2" enter PL4	14 — 11-3/4" x 47-3/4" 22 — 23-3/4" x 23-3/4" 24 — 23-3/4" x 47-3/4" enter size	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* enter finish * Optional Durabolic Coating	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. enter options

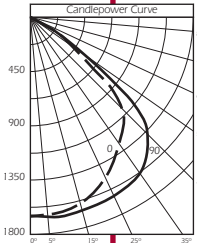
Note: All Para-Lite 4 louvers are destaticized before and after fabrication to ensure a high quality product.

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

PARA-LITE 4 PHOTOMETRICS



TS: TECHNICAL SUPPORT
 Lighting Research Laboratories, Inc.
 Test Report No. LRL 397-3E, Date 3/5/97.
Description: Commercially Available 2' x 4' Troffer
 2/32W T8 Lamps, 1/2" deep Parabolic Specular Silver Louver.
 Luminary Watts = 60.2,
 Catalog Number: Louver **PL4** 24 SPS
 Lamp Type: F32T8/TL80, Lumens: 3050,
 Number of Lamps: 2



* Other testing results available upon request.

Total Luminaire Efficiency:	53.3%
Plane:	0° 90°
Spacing Criteria:	1.2 1.4
Shielding Angles:	33 33

Specifications

Parabolic Louvers shall be Para-Lite 4 as manufactured by A.L.P. Lighting Components, Inc., and shall be one piece injection molded of polystyrene or acrylic with all parabolic surfaces prepared with a primary undercoat and a highly specular vacuum metalized finish. Cell dimensions shall be 3/4" x 3/4" x 1/2" and shall provide 33° shielding with a louver efficiency of not less than 53%. This louver has a VCP index rating of .92 (specular silver finish). Available in nominal panel sizes of 1' x 4', 2' x 2' and 2' x 4'.

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	1623	1623	1623	1623	1623	
5.0	1615	1615	1612	1613	1607	154
15.0	1577	1581	1601	1622	1643	455
25.0	1446	1469	1531	1607	1621	711
35.0	1250	1310	1415	1508	1554	885
45.0	950	1041	1150	1274	1323	891
55.0	98	158	241	184	145	158
65.0	0	0	0	0	0	0
75.0	0	0	0	0	0	0
85.0	0	0	0	0	0	0
90.0	0	0	0	0	0	0

LUMINANCE DATA

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0-30	1319	21.6	40.5
0-40	2204	36.1	67.8
0-60	3253	53.3	100
0-90	3253	53.3	100
90-180	0	0.0	0.0
0-180	3253	53.3	100.0

IN FOOTLAMBERTS

ANG. IN DEG.	AVG. 0-DEG.	AVG. 45-DEG.	AVG. 90-DEG.
45	2185	2645	3043
55	278	683	411
65	0	0	0
75	0	0	0
85	0	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	50	30	10	50	30	10	50	30	10	00
0	63	63	63	63	62	62	62	62	59	59	59	57	57	57	54	54	54	53
1	60	59	57	56	59	58	56	55	55	54	53	53	53	52	52	51	50	49
2	57	54	52	50	56	54	51	50	52	50	49	50	49	48	49	48	47	46
3	54	51	48	46	53	50	47	45	48	46	45	47	45	44	46	44	43	42
4	51	47	43	41	50	46	43	41	45	42	40	44	42	40	43	41	39	39
5	48	43	40	37	47	43	39	37	42	39	37	41	38	36	40	38	36	35
6	45	40	36	34	44	39	36	34	38	36	33	38	35	33	37	35	33	32
7	42	36	33	30	41	36	33	30	35	32	30	35	32	30	34	32	30	29
8	39	33	30	27	38	33	30	27	32	29	27	32	29	27	31	29	27	26
9	36	30	27	24	36	30	27	24	29	26	24	29	26	24	28	26	24	23
10	33	26	22	20	32	26	22	20	25	22	20	25	22	20	25	22	20	19

VISUAL COMFORT PROBABILITY TABLE

100 FC Work Plane Illumination Work Plane FC = 100

ROOM DIM		LUMINARIES LENGTHWISE						LUMINARIES CROSSWISE			
		MOUNTING HEIGHT									
W	L	8.5	10	13	16	8.5	10	13	16		
20	20	100	99	95	92	100	99	92	88		
20	30	100	100	97	93	100	100	95	90		
20	40	100	100	98	95	100	100	97	93		
20	60	100	100	99	96	100	100	98	94		
30	20	100	100	96	92	100	100	94	90		
30	30	100	100	98	94	100	100	97	91		
30	40	100	100	99	95	100	100	98	94		
30	60	100	100	100	97	100	100	99	95		
30	80	100	100	100	98	100	100	100	96		
40	20	100	100	98	94	100	100	96	92		
40	30	100	100	99	95	100	100	98	93		
40	40	100	100	100	97	100	100	99	95		
40	60	100	100	100	98	100	100	100	96		
40	80	100	100	100	98	100	100	100	97		
40	100	100	100	100	99	100	100	100	98		
60	30	100	100	100	96	100	100	99	95		
60	40	100	100	100	98	100	100	100	96		
60	60	100	100	100	99	100	100	100	97		
60	80	100	100	100	99	100	100	100	98		
60	100	100	100	100	100	100	100	100	99		
100	40	100	100	100	99	100	100	100	98		
100	60	100	100	100	100	100	100	100	99		
100	80	100	100	100	100	100	100	100	99		
100	100	100	100	100	100	100	100	100	100		



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