



# PARASQUARE 2

1-1/2" x 1-1/2" x 1" cell size  
PHOTOMETRIC TEST DATA

Catalog Number: P2-24-4  
 Building Acoustics & Lighting Laboratories, Inc.  
 Certified Test Report: 8636.0 1/22/96  
 Commercially available **2x4 troffer**: Refl=92%  
**3-32 Watt T8 Lamps**: F32T8/735/RS  
 Rated Lumens: 2850  
 Watts: 87

### CANDLEPOWER DISTRIBUTION

VERT ANG	HORIZONTAL ANGLE					ZONAL LUMENS
	0	22.5	45	67.5	90	
0	2370.	2370.	2370.	2370.	2370.	
5	2383.	2392.	2396.	2411.	2411.	229.0
10	2398.	2414.	2470.	2497.	2501.	
15	2348.	2398.	2501.	2528.	2532.	699.2
20	2239.	2348.	2439.	2519.	2535.	
25	2104.	2240.	2359.	2507.	2535.	1090.7
30	1905.	2055.	2265.	2427.	2465.	
35	1760.	1952.	2216.	2385.	2421.	1357.5
40	1549.	1790.	2066.	2287.	2379.	
45	1394.	1640.	1881.	2128.	2204.	1442.0
50	872.	1044.	1238.	1288.	1381.	
55	47.	187.	331.	58.	29.	137.7
60	8.	8.	13.	8.	8.	
65	4.	4.	4.	4.	4.	4.0
70	3.	3.	3.	3.	3.	
75	3.	3.	3.	3.	3.	3.2
80	3.	3.	3.	3.	3.	
85	1.	1.	1.	1.	1.	1.1
90	0.	0.	0.	0.	0.	

TESTED IN ACCORDANCE WITH CURRENT IES PRODEDURES.

IES SPACING CRITERIA:  
 END: 1.2  
 DIAGONAL: 1.4  
 CROSS: 1.6

### VISUAL COMFORT PROBABILITY 100. FC WORK PLANE ILLUMINATION

REFLECTANCES:  
 WALL= .50  
 CEILING CAVITY= .80  
 FLOOR CAVITY= .20

ROOM DIM	LUMINAIRES LENGTHWISE								LUMINAIRES CROSSWISE			
	MOUNTING HEIGHT											
	W	L	8.5	10	13	16	8.5	10	13	16		
20	20	96	97	92	82	95	96	89	76			
20	30	97	98	95	88	96	97	92	83			
20	40	98	98	96	89	97	98	94	85			
20	60	98	98	97	91	97	98	95	87			
30	20	98	98	95	85	97	97	92	80			
30	30	98	98	96	89	97	98	95	85			
30	40	98	99	97	91	98	98	96	88			
30	60	99	99	98	93	98	98	97	90			
30	80	99	99	98	94	98	99	97	91			
40	20	98	98	96	88	98	98	94	83			
40	30	98	99	97	91	98	98	96	88			
40	40	99	99	98	93	98	99	97	90			
40	60	99	99	98	94	98	99	97	92			
40	80	99	99	98	95	99	99	98	93			
40	100	99	99	98	95	99	99	98	94			
60	30	99	99	98	93	98	99	97	90			
60	40	99	99	98	94	99	99	97	92			
60	60	99	99	98	95	99	99	98	93			
60	80	99	99	99	96	99	99	98	94			
60	100	99	99	99	96	99	99	98	95			
100	40	99	99	99	96	99	99	98	94			
100	60	99	99	99	96	99	99	98	95			
100	80	99	99	99	97	99	99	98	96			
100	100	99	99	99	97	99	99	99	96			

### LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0-30	2019.	23.6	40.7	90-120	0.	.0	.0
0-40	3376.	39.5	68.0	90-130	0.	.0	.0
0-60	4956.	58.0	99.8	90-150	0.	.0	.0
0-90	4964.	58.1	100.0	90-180	0.	.0	.0
TOTAL LUMINAIRE				0-180	4964.	58.1	100.0

### LUMINANCES-CD/SQ-M HORIZONTAL ANGLE

VERT ANGLE	0			45			90		
	AVG	MAX	MAX/AV	AVG	AVG	MAX	MAX/AV	AVG	MAX
45	3384.	7833	2.3	4566.	5350.	11005	2.1		
55	141.	1533	10.9	991.	87.	1349	15.5		
65	16.	108	6.6	16.	16.	139	8.6		
75	20.	122	6.1	20.	20.	153	7.7		
85	20.	170	8.6	20.	20.	108	5.5		

### ZONAL CAVITY COEFFICIENTS OF UTILIZATION

EFFECTIVE FLOOR CAVITY REFLECTANCE=.20

CEILING	EFFECTIVE FLOOR CAVITY REFLECTANCE=.20																									
	.80				.70				.50				.30				.10				.00					
WALL RCR	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10
0	.69	.69	.69	.69	.68	.68	.68	.68	.65	.65	.65	.62	.62	.62	.59	.59	.59	.58								
1	.65	.64	.62	.61	.64	.62	.61	.60	.60	.59	.58	.58	.57	.56	.56	.55	.54	.53								
2	.62	.59	.56	.54	.60	.58	.55	.53	.56	.54	.52	.54	.52	.51	.52	.51	.50	.49								
3	.58	.54	.50	.48	.57	.53	.50	.47	.51	.49	.47	.50	.48	.46	.49	.47	.45	.44								
4	.54	.49	.46	.43	.53	.49	.45	.42	.47	.44	.42	.46	.44	.41	.45	.43	.41	.40								
5	.51	.45	.41	.38	.50	.44	.41	.38	.43	.40	.38	.42	.39	.37	.41	.39	.37	.36								
6	.47	.41	.37	.34	.46	.41	.37	.34	.40	.36	.34	.39	.36	.34	.38	.35	.33	.32								
7	.44	.37	.33	.30	.43	.37	.33	.30	.36	.33	.30	.35	.32	.30	.35	.32	.30	.29								
8	.40	.34	.29	.27	.40	.33	.29	.27	.33	.29	.26	.32	.29	.26	.31	.28	.26	.25								
9	.37	.30	.26	.23	.36	.30	.26	.23	.29	.26	.23	.29	.25	.23	.28	.25	.23	.22								
10	.34	.27	.23	.20	.34	.27	.23	.20	.26	.23	.20	.26	.23	.20	.25	.22	.20	.19								



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END:  
DIAGONAL:  
CROSS:

For  
Comparative  
Use ONLY