



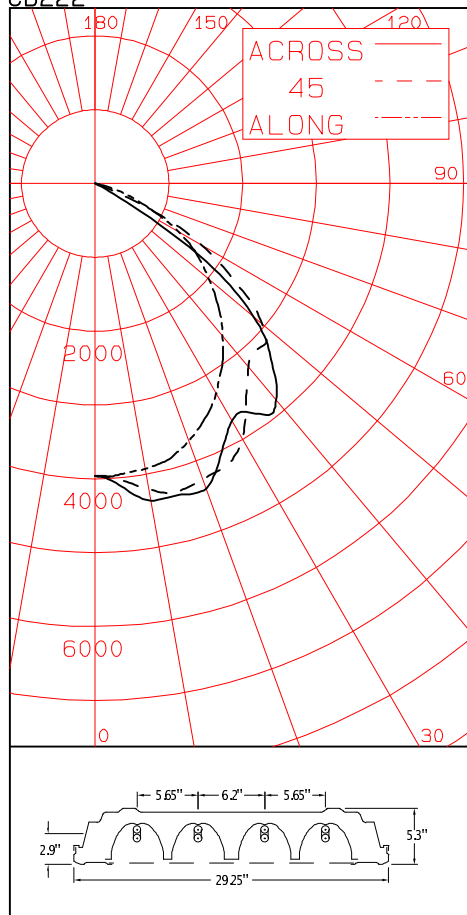
# LIGHTING SCIENCES CANADA LTD.

440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9  
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CERTIFIED TEST REPORT NO. LSC B222  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI BS240 RATED COMPACT FLUORESCENT LUMINAIRE CAT. NO. BS240 4 HT B 120V  
WITH SPECULAR REFLECTOR AND CLEAR GLASS LENS  
FOUR 55W PL COMPACT FLUORESCENT LAMPS. LUMEN RATING = 4800 LMS.  
TWO UNIVERSAL 120-277V 1 OR 2-LAMP ELECTRONIC BALLASTS NO. B254PUNV-D

CB222



## CANDLEPOWER SUMMARY

OUTPUT  
LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	3961	3961	3961	3961	3961	
5	3952	3993	4030	4067	4120	397
10	3924	4038	4204	4327	4363	
15	3866	4103	4317	4318	4365	1191
20	3712	4090	4264	4377	4397	
25	3519	3998	4227	4145	4042	1847
30	3285	3767	3997	3769	3711	
35	3009	3514	3568	3588	3804	2218
40	2690	3222	3236	3824	3820	
45	2365	2907	3151	3487	3374	2375
50	2016	2469	2950	2922	2813	
55	1694	2004	2321	2122	1848	1797
60	1305	1546	1672	802	386	
65	842	1203	779	47	20	646
70	506	708	62	0	0	
75	195	270	0	0	0	107
80	15	0	0	0	0	
85	0	0	0	0	0	0
90	0	0	0	0	0	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	3434	17.89	32.47
0-40	5652	29.44	53.44
0-60	9825	51.17	92.88
0-90	10577	55.09	100.00
40-90	4924	25.65	46.56
60-90	752	3.92	7.12
90-180	0	.00	.00
0-180	10577	55.09	100.00

\*\* EFFICIENCY = 55.1% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.5

SC (ALONG) = 1.2, SC (ACROSS) = 1.5

ANGLE	ALONG	45	ACROSS
45	10711	14326	15343
55	9461	13011	10359
65	6382	5927	153
75	2408	0	0
85	0	0	0

CERTIFIED BY:

*Charles Lison*

DATE:

MAY 26, 2006

PREPARED FOR:

BEGHELLI NORTH AMERICA  
MIRAMAR, FL, USA

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE  
TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.

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CANDLEPOWER DATA  
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	3961	3961	3961	3961	3961	3961	
2.5	3979	3986	3970	3970	4005	3980	
5.0	3952	3993	4030	4067	4120	4031	397
7.5	3934	4026	4116	4217	4266	4115	
10.0	3924	4038	4204	4327	4363	4178	
12.5	3896	4062	4288	4342	4364	4205	
15.0	3866	4103	4317	4318	4365	4213	1191
17.5	3790	4128	4300	4338	4406	4216	
20.0	3712	4090	4264	4377	4397	4196	
22.5	3620	4064	4237	4317	4249	4138	
25.0	3519	3998	4227	4145	4042	4038	1847
27.5	3412	3888	4133	3930	3855	3896	
30.0	3285	3767	3997	3769	3711	3758	
32.5	3136	3630	3787	3625	3669	3611	
35.0	3009	3514	3568	3588	3804	3519	2218
37.5	2846	3374	3389	3727	3934	3470	
40.0	2690	3222	3236	3824	3820	3384	
42.5	2538	3075	3137	3680	3635	3245	
45.0	2365	2907	3151	3487	3374	3104	2375
47.5	2196	2707	3158	3218	3150	2939	
50.0	2016	2469	2950	2922	2813	2689	
52.5	1854	2234	2699	2588	2385	2410	
55.0	1694	2004	2321	2122	1848	2055	1797
57.5	1517	1776	2013	1625	1031	1672	
60.0	1305	1546	1672	802	386	1216	
62.5	1067	1391	1297	276	71	883	
65.0	842	1203	779	47	20	615	646
67.5	663	953	312	0	0	399	
70.0	506	708	62	0	0	256	
72.5	338	484	0	0	0	163	
75.0	195	270	0	0	0	92	107
77.5	65	68	0	0	0	25	
80.0	15	0	0	0	0	2	
82.5	0	0	0	0	0	0	
85.0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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 TWO UNIVERSAL 120-277V 1 OR 2-LAMP ELECTRONIC BALLASTS NO. B254PUNV-D

AVERAGE LUMINANCE DATA

		CD. / SQ. M.		(FOOTLAMBERTS)			
ANGLE	ALONG	22.5	45	67.5	ACROSS		
0	12686( 3702)	12686( 3702)	12686( 3702)	12686( 3702)	12686( 3702)		
30	12149( 3546)	13970( 4077)	14821( 4325)	13971( 4077)	13724( 4005)		
40	11246( 3282)	13506( 3942)	13541( 3952)	16030( 4678)	15973( 4662)		
45	10711( 3126)	13183( 3847)	14326( 4181)	15841( 4623)	15343( 4478)		
50	10046( 2932)	12347( 3603)	14703( 4291)	14602( 4261)	14016( 4090)		
55	9461( 2761)	11209( 3271)	13011( 3797)	11884( 3468)	10359( 3023)		
60	8360( 2439)	9940( 2901)	10720( 3128)	5149( 1502)	2472( 721)		
65	6382( 1862)	9128( 2664)	5927( 1730)	358( 104)	153( 44)		
70	4734( 1381)	6653( 1941)	580( 169)	0( 0)	0( 0)		
75	2408( 702)	3350( 977)	0( 0)	0( 0)	0( 0)		
80	270( 78)	0( 0)	0( 0)	0( 0)	0( 0)		
85	0( 0)	0( 0)	0( 0)	0( 0)	0( 0)		

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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# COEFFICIENTS OF UTILIZATION

## ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	.66	.66	.66	.66	.64	.64	.64	.64	.61	.61	.61	.59	.59	.59	.56	.56	.56	.55			
1	.62	.60	.58	.56	.60	.58	.57	.55	.56	.55	.54	.54	.53	.52	.52	.51	.50	.49			
2	.57	.54	.51	.49	.56	.53	.50	.48	.51	.49	.47	.49	.48	.46	.48	.46	.45	.44			
3	.53	.49	.45	.42	.52	.48	.45	.42	.46	.44	.41	.45	.43	.41	.44	.42	.40	.39			
4	.49	.44	.40	.37	.48	.43	.40	.37	.42	.39	.36	.41	.38	.36	.40	.37	.36	.35			
5	.46	.40	.36	.32	.45	.39	.35	.32	.38	.35	.32	.37	.34	.32	.36	.34	.31	.30			
6	.42	.36	.32	.28	.41	.35	.31	.28	.34	.31	.28	.33	.30	.28	.33	.30	.28	.27			
7	.39	.32	.28	.25	.38	.32	.28	.25	.31	.27	.24	.30	.27	.24	.29	.26	.24	.23			
8	.36	.29	.25	.22	.35	.29	.25	.22	.28	.24	.22	.27	.24	.21	.27	.24	.21	.20			
9	.33	.26	.22	.19	.32	.26	.22	.19	.25	.22	.19	.25	.21	.19	.24	.21	.19	.18			
10	.31	.24	.20	.17	.30	.24	.20	.17	.23	.19	.17	.23	.19	.17	.22	.19	.17	.16			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 168.0  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.