



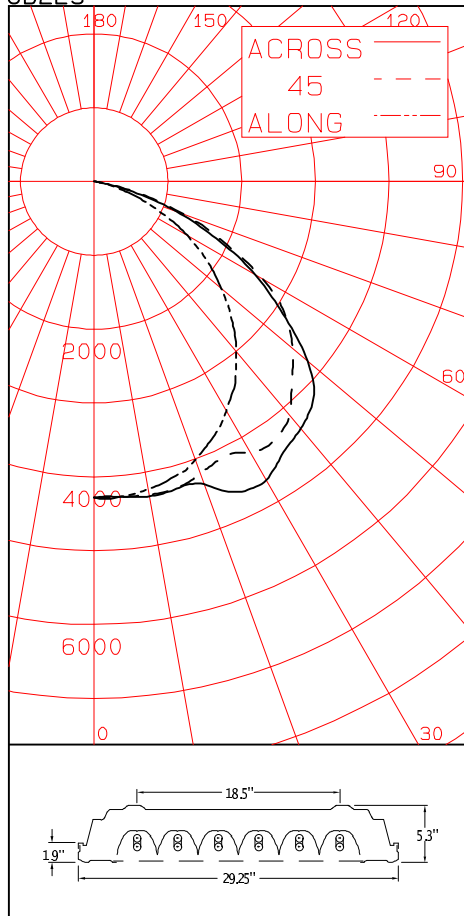
# LIGHTING SCIENCES CANADA LTD.

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CERTIFIED TEST REPORT NO. LSC B223  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI BS240 RATED COMPACT FLUORESCENT LUMINAIRE CAT. NO. BS240 6 HT B 120V  
WITH SPECULAR REFLECTOR AND CLEAR GLASS LENS  
SIX 55W PL COMPACT FLUORESCENT LAMPS. LUMEN RATING = 4800 LMS.  
THREE UNIVERSAL 120-277V 1 OR 2-LAMP ELECTRONIC BALLASTS NO. B254PUNV-D

CB223



## CANDLEPOWER SUMMARY

OUTPUT  
LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	4281	4281	4281	4281	4281	
5	4281	4287	4293	4287	4291	416
10	4232	4258	4305	4326	4330	
15	4145	4206	4302	4298	4309	1202
20	4014	4108	4207	4282	4362	
25	3821	3967	4124	4536	4637	1943
30	3587	3779	4234	4614	4670	
35	3334	3547	4275	4479	4479	2532
40	3000	3322	4131	4283	4366	
45	2641	3144	3793	4124	4202	2784
50	2255	2904	3513	3808	3781	
55	1866	2558	3165	3235	3126	2542
60	1454	2094	2646	2558	2527	
65	1016	1650	1942	1909	1828	1717
70	638	1172	1298	1237	1185	
75	306	645	663	593	543	638
80	79	210	192	140	128	
85	0	7	0	0	0	34
90	0	0	0	0	0	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	3560	12.36	25.79
0-40	6092	21.15	44.13
0-60	11418	39.65	82.70
0-90	13807	47.94	100.00
40-90	7714	26.79	55.87
60-90	2388	8.29	17.30
90-180	0	.00	.00
0-180	13807	47.94	100.00

\*\* EFFICIENCY = 47.9% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.6

SC (ALONG) = 1.2, SC (ACROSS) = 1.6

ANGLE	ALONG	45	ACROSS
45	11963	17245	19104
55	10418	17739	17522
65	7696	14768	13906
75	3786	8209	6748
85	0	0	0

CERTIFIED BY:

*Charles Sison*

DATE:

MAY 29, 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.

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	4281	4281	4281	4281	4281	4281	416
2.5	4302	4295	4286	4268	4268	4283	
5.0	4281	4287	4293	4287	4291	4288	
7.5	4259	4262	4296	4307	4308	4287	
10.0	4232	4258	4305	4326	4330	4293	
12.5	4195	4233	4314	4321	4326	4282	1202
15.0	4145	4206	4302	4298	4309	4258	
17.5	4102	4160	4270	4266	4297	4224	
20.0	4014	4108	4207	4282	4362	4196	
22.5	3913	4044	4161	4393	4526	4204	
25.0	3821	3967	4124	4536	4637	4214	1943
27.5	3715	3876	4144	4597	4679	4204	
30.0	3587	3779	4234	4614	4670	4189	
32.5	3459	3667	4284	4590	4579	4140	
35.0	3334	3547	4275	4479	4479	4052	
37.5	3161	3443	4221	4375	4419	3957	2532
40.0	3000	3322	4131	4283	4366	3855	
42.5	2828	3221	3959	4210	4293	3738	
45.0	2641	3144	3793	4124	4202	3621	
47.5	2455	3046	3664	4007	4037	3491	
50.0	2255	2904	3513	3808	3781	3311	2542
52.5	2066	2746	3360	3551	3473	3107	
55.0	1866	2558	3165	3235	3126	2863	
57.5	1669	2341	2951	2881	2820	2604	
60.0	1454	2094	2646	2558	2527	2322	
62.5	1247	1899	2290	2278	2196	2047	1717
65.0	1016	1650	1942	1909	1828	1731	
67.5	815	1424	1642	1555	1502	1445	
70.0	638	1172	1298	1237	1185	1155	
72.5	447	912	946	906	860	855	
75.0	306	645	663	593	543	581	638
77.5	165	411	383	322	315	339	
80.0	79	210	192	140	128	161	
82.5	12	66	47	37	29	43	
85.0	0	7	0	0	0	2	
87.5	0	0	0	0	0	0	34
90.0	0	0	0	0	0	0	

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WATERLOO, ONTARIO

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BEGHELLI BS240 RATED COMPACT FLUORESCENT LUMINAIRE CAT. NO. BS240 6 HT B 120V  
WITH SPECULAR REFLECTOR AND CLEAR GLASS LENS  
SIX 55W PL COMPACT FLUORESCENT LAMPS. LUMEN RATING = 4800 LMS.  
THREE 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	13712 ( 4002)	13712 ( 4002)	13712 ( 4002)	13712 ( 4002)	13712 ( 4002)		
30	13267 ( 3872)	14017 ( 4091)	15700 ( 4582)	17107 ( 4992)	17270 ( 5040)		
40	12544 ( 3661)	13925 ( 4064)	17286 ( 5045)	17954 ( 5240)	18252 ( 5327)		
45	11963 ( 3491)	14259 ( 4161)	17245 ( 5033)	18733 ( 5467)	19104 ( 5575)		
50	11237 ( 3279)	14526 ( 4239)	17508 ( 5110)	19027 ( 5553)	18839 ( 5498)		
55	10418 ( 3040)	14309 ( 4176)	17739 ( 5177)	18120 ( 5288)	17522 ( 5114)		
60	9315 ( 2718)	13462 ( 3929)	16966 ( 4951)	16427 ( 4794)	16190 ( 4725)		
65	7696 ( 2246)	12517 ( 3653)	14768 ( 4310)	14511 ( 4235)	13906 ( 4058)		
70	5972 ( 1743)	11012 ( 3214)	12191 ( 3558)	11611 ( 3388)	11094 ( 3238)		
75	3786 ( 1105)	8008 ( 2337)	8209 ( 2396)	7358 ( 2147)	6748 ( 1969)		
80	1453 ( 424)	3890 ( 1135)	3557 ( 1038)	2587 ( 755)	2362 ( 689)		
85	0 ( 0)	271 ( 79)	0 ( 0)	0 ( 0)	0 ( 0)		

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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BEGHELLI BS240 RATED COMPACT FLUORESCENT LUMINAIRE CAT. NO. BS240 6 HT B 120V  
 WITH SPECULAR REFLECTOR AND CLEAR GLASS LENS  
 SIX 55W PL COMPACT FLUORESCENT LAMPS. LUMEN RATING = 4800 LMS.  
 THREE UNIVERSAL 120-277V 1 OR 2-LAMP ELECTRONIC BALLASTS NO. B254PUNV-D

# 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	.57	.57	.57	.57	.56	.56	.56	.56	.53	.53	.53	.51	.51	.51	.49	.49	.49	.49	.49	.49	.48
1	.53	.51	.49	.48	.52	.50	.48	.47	.48	.46	.45	.46	.45	.44	.44	.43	.43	.43	.43	.43	.42
2	.49	.45	.42	.40	.48	.44	.42	.39	.43	.40	.38	.41	.39	.38	.40	.38	.37	.37	.37	.37	.36
3	.44	.40	.36	.34	.43	.39	.36	.33	.38	.35	.33	.37	.34	.32	.35	.33	.32	.32	.32	.32	.31
4	.41	.36	.32	.29	.40	.35	.32	.29	.34	.31	.28	.33	.30	.28	.32	.29	.27	.27	.27	.27	.27
5	.38	.32	.28	.25	.37	.31	.27	.24	.30	.27	.24	.29	.26	.24	.28	.26	.24	.24	.24	.24	.23
6	.34	.28	.24	.21	.34	.28	.24	.21	.27	.23	.21	.26	.23	.21	.25	.23	.20	.20	.20	.20	.20
7	.31	.25	.21	.18	.31	.25	.21	.18	.24	.20	.18	.23	.20	.18	.23	.20	.18	.18	.18	.18	.17
8	.29	.23	.19	.16	.28	.22	.18	.16	.22	.18	.16	.21	.18	.16	.20	.18	.15	.15	.15	.15	.15
9	.27	.21	.16	.14	.26	.20	.16	.14	.20	.16	.14	.19	.16	.14	.19	.16	.13	.13	.13	.13	.13
10	.25	.19	.15	.12	.24	.18	.15	.12	.18	.14	.12	.17	.14	.12	.17	.14	.12	.12	.12	.12	.11

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 243.0  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.