



# LIGHTING SCIENCES CANADA LTD.

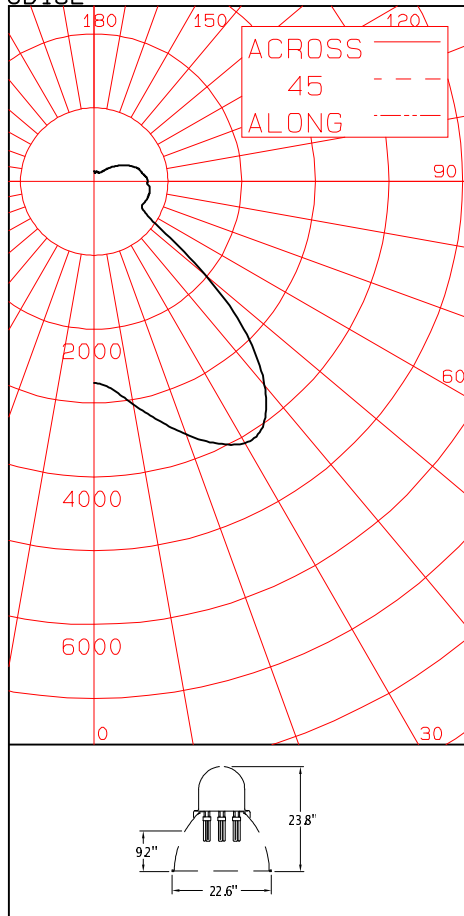
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CERTIFIED TEST REPORT NO. LSC D182  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI GRAN BELLA BS830 INDOOR LUMINAIRE CAT. NO. GRAN BELLA BS830  
WITH PRISMATIC REFLECTOR/REFRACTOR AND CLEAR LENS  
EIGHT 42W DULUX CF42DT/E/IN/830 COMPACT FLUOR. LAMPS. LUMEN RATING = 3200 LMS.  
FOUR UNIVERSAL TRIAD 120-277V 1 OR 2-LAMP ELECTRONIC BALLASTS NO. C242UNVSE

## CANDLEPOWER SUMMARY

CD182



ANGLE	MEAN CP	LMS.	ANGLE	MEAN CP	LMS.
0	2730		90	729	
5	2827	283	95	709	765
10	3065		100	662	
15	3345	958	105	633	665
20	3641		110	579	
25	3911	1808	115	512	507
30	4089		120	437	
35	4012	2469	125	368	334
40	3598		130	313	
45	2931	2202	135	245	191
50	1958		140	190	
55	1066	1050	145	150	99
60	764		150	140	
65	728	733	155	129	62
70	750		160	142	
75	761	804	165	142	40
80	766		170	135	
85	752	811	175	112	12
90	729		180	141	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	3048	11.91	22.11
0-40	5517	21.55	40.00
0-60	8769	34.25	63.58
0-90	11117	43.43	80.61
40-90	5600	21.88	40.60
60-90	2348	9.17	17.03
90-180	2674	10.45	19.39
0-180	13792	53.88	100.00

\*\* EFFICIENCY = 53.9% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.8  
SC = 1.6

ANGLE	MEAN CD/SQ M
45	12729
55	4796
65	3507
75	4082
85	4711

CERTIFIED BY:

*Charles Lison*

DATE:

APR 3, 2008

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

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0	2730	
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75	761	804
80	766	
85	752	811
90	729	
95	709	765
100	662	
105	633	665
110	579	
115	512	507
120	437	
125	368	334
130	313	
135	245	191
140	190	
145	150	99
150	140	
155	129	62
160	142	
165	142	40
170	135	
175	112	12
180	141	

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AVERAGE LUMINANCE DATA

ANGLE	LUMINANCE		
0	22421	(	6543)
30	17841	(	5207)
40	15531	(	4533)
45	12729	(	3715)
50	8619	(	2515)
55	4796	(	1399)
60	3543	(	1034)
65	3507	(	1023)
70	3793	(	1107)
75	4082	(	1191)
80	4412	(	1287)
85	4711	(	1375)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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 EIGHT 42W DULUX CF42DT/E/IN/830 COMPACT FLUOR. LAMPS. LUMEN RATING = 3200 LMS.  
 FOUR UNIVERSAL TRIAD 120-277V 1 OR 2-LAMP ELECTRONIC BALLASTS NO. C242UNVSE

# 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	.62	.62	.62	.62	.59	.59	.59	.59	.54	.54	.54	.50	.50	.50	.45	.45	.45	.45	.45	.45	.43
1	.56	.53	.51	.49	.53	.51	.49	.47	.47	.45	.44	.43	.42	.40	.39	.38	.37	.37	.37	.37	.36
2	.51	.47	.44	.41	.49	.45	.42	.39	.42	.39	.37	.38	.36	.35	.35	.34	.32	.35	.34	.32	.31
3	.47	.42	.38	.35	.45	.40	.37	.34	.37	.34	.32	.34	.32	.30	.32	.30	.28	.32	.30	.28	.27
4	.44	.38	.34	.30	.42	.36	.33	.29	.34	.31	.28	.31	.29	.26	.29	.27	.25	.29	.27	.25	.24
5	.40	.34	.30	.26	.39	.33	.29	.26	.31	.27	.24	.28	.26	.23	.26	.24	.22	.26	.24	.22	.21
6	.37	.31	.26	.23	.36	.30	.25	.22	.28	.24	.22	.26	.23	.21	.24	.21	.20	.24	.21	.20	.18
7	.34	.28	.23	.20	.33	.27	.23	.20	.25	.21	.19	.23	.20	.18	.22	.19	.17	.22	.19	.17	.16
8	.32	.25	.21	.18	.30	.24	.20	.17	.23	.19	.17	.21	.18	.16	.20	.17	.15	.20	.17	.15	.14
9	.29	.23	.18	.15	.28	.22	.18	.15	.20	.17	.14	.19	.16	.14	.18	.15	.13	.18	.15	.13	.12
10	.27	.20	.16	.13	.26	.20	.16	.13	.18	.15	.13	.17	.14	.12	.16	.13	.12	.16	.13	.12	.11

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 273.0  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.