



LIGHTING SCIENCES CANADA LTD.

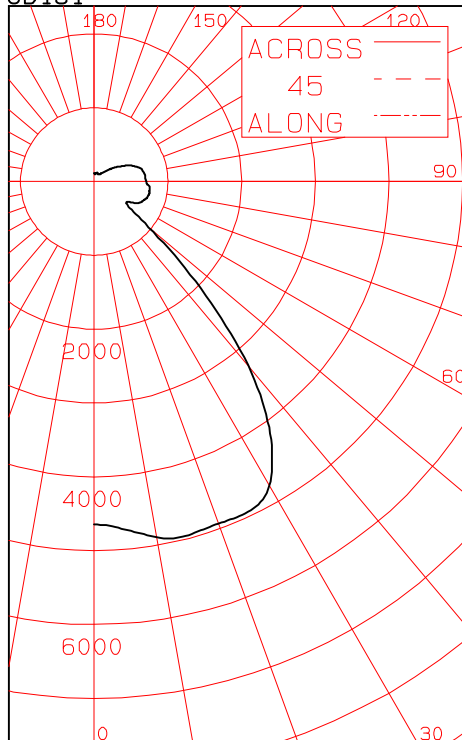
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CERTIFIED TEST REPORT NO. LSC D181
COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI GRAN BELLA BS810 INDOOR LUMINAIRE CAT. NO. GRAN BELLA BS810
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

CD181



ANGLE	MEAN CP	LMS.	ANGLE	MEAN CP	LMS.
0	4649		90	709	
5	4730	464	95	697	759
10	4895		100	685	
15	4958	1399	105	663	692
20	4931		110	596	
25	4935	2264	115	516	509
30	4757		120	413	
35	4165	2553	125	326	296
40	3249		130	252	
45	2048	1573	135	178	145
50	967		140	143	
55	544	556	145	120	77
60	556		150	118	
65	676	658	155	114	54
70	723		160	123	
75	755	796	165	121	35
80	760		170	114	
85	755	809	175	102	10
90	709		180	116	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	4127	16.12	30.24
0-40	6679	26.09	48.94
0-60	8808	34.41	64.54
0-90	11071	43.25	81.12
40-90	4391	17.16	32.18
60-90	2262	8.84	16.58
90-180	2576	10.07	18.88
0-180	13648	53.31	100.00

** EFFICIENCY = 53.3% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.4
SC = 1.3

ANGLE	MEAN CD/SQ M
45	9215
55	2511
65	3308
75	4058
85	4658

CERTIFIED BY:

Charles Lison

DATE:

APR 2, 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

ANGLE	CANDLEPOWER	LUMENS
0	4649	
5	4730	464
10	4895	
15	4958	1399
20	4931	
25	4935	2264
30	4757	
35	4165	2553
40	3249	
45	2048	1573
50	967	
55	544	556
60	556	
65	676	658
70	723	
75	755	796
80	760	
85	755	809
90	709	
95	697	759
100	685	
105	663	692
110	596	
115	516	509
120	413	
125	326	296
130	252	
135	178	145
140	143	
145	120	77
150	118	
155	114	54
160	123	
165	121	35
170	114	
175	102	10
180	116	

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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

AVERAGE LUMINANCE DATA

ANGLE	LUMINANCE	
0	43637	(12736)
30	21831	(6371)
40	14606	(4263)
45	9215	(2689)
50	4388	(1280)
55	2511	(733)
60	2629	(767)
65	3308	(965)
70	3690	(1077)
75	4058	(1184)
80	4352	(1270)
85	4658	(1359)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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BEGHELLI GRAN BELLA BS810 INDOOR LUMINAIRE CAT. NO. GRAN BELLA BS810
 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

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	.61	.61	.61	.61	.58	.58	.58	.58	.54	.54	.54	.49	.49	.49	.45	.45	.45	.45	.45	.45	.43
1	.56	.53	.51	.49	.53	.51	.49	.47	.47	.45	.44	.43	.42	.41	.40	.39	.38	.38	.38	.38	.36
2	.51	.48	.44	.41	.49	.46	.43	.40	.42	.40	.38	.39	.37	.35	.36	.35	.33	.36	.35	.33	.32
3	.48	.43	.39	.36	.46	.41	.38	.35	.38	.35	.33	.36	.33	.31	.33	.31	.30	.33	.31	.30	.28
4	.45	.39	.35	.32	.43	.38	.34	.31	.35	.32	.30	.33	.30	.28	.31	.29	.27	.31	.29	.27	.26
5	.41	.36	.31	.28	.40	.34	.31	.28	.32	.29	.27	.30	.27	.25	.28	.26	.24	.28	.26	.24	.23
6	.39	.33	.28	.26	.37	.32	.28	.25	.30	.26	.24	.28	.25	.23	.26	.24	.22	.26	.24	.22	.21
7	.36	.30	.26	.23	.35	.29	.25	.22	.27	.24	.22	.26	.23	.21	.24	.22	.20	.24	.22	.20	.19
8	.34	.27	.23	.21	.32	.26	.23	.20	.25	.22	.20	.24	.21	.19	.22	.20	.18	.22	.20	.18	.17
9	.31	.25	.21	.18	.30	.24	.21	.18	.23	.20	.18	.22	.19	.17	.21	.18	.16	.21	.18	.16	.15
10	.29	.23	.19	.17	.28	.22	.19	.16	.21	.18	.16	.20	.17	.15	.19	.17	.15	.19	.17	.15	.14

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 296.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.