



# LIGHTING SCIENCES CANADA LTD.

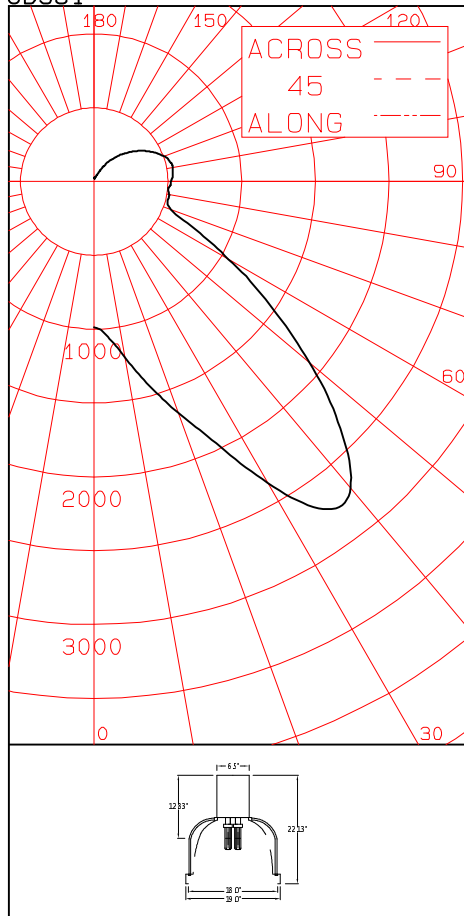
440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9  
Tel: (519) 746-3140 Fax: (519) 746-3156 lsc@lightingsciences.ca

CERTIFIED TEST REPORT NO. LSCD581  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI DRACO BS720 LUMINAIRE CAT. NO. DRACO BS720CF4MD42W120/277AC50  
WITH 16" PRISMATIC REFLECTOR/REFRACTOR AND ALUMINUM RING  
FOUR 42W TRIPLE-TUBE COMPACT FLUORESCENT LAMPS. LUMEN RATING = 3200 LMS.  
TWO UNIVERSAL TRIAD 120-277V 1 OR 2-LAMP ELECTRONIC BALLASTS NO. C242UNVSE

## CANDLEPOWER SUMMARY

CD581



ANGLE	MEAN CP	LMS.	ANGLE	MEAN CP	LMS.
0	989		90	521	
5	1056	108	95	534	581
10	1216		100	539	
15	1432	413	105	529	558
20	1665		110	504	
25	1957	927	115	462	456
30	2357		120	414	
35	2708	1663	125	363	325
40	2707		130	310	
45	2363	1803	135	260	201
50	1903		140	206	
55	1449	1303	145	158	100
60	1054		150	112	
65	746	754	155	68	34
70	554		160	44	
75	514	552	165	34	10
80	516		170	28	
85	506	559	175	21	2
90	521		180	26	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1447	11.31	13.99
0-40	3110	24.30	30.05
0-60	6216	48.57	60.07
0-90	8081	63.13	78.09
40-90	4970	38.84	48.03
60-90	1864	14.57	18.02
90-180	2267	17.72	21.91
0-180	10349	80.85	100.00

\*\* EFFICIENCY = 80.9% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 2.4  
SC = 2.1

ANGLE	MEAN CD/SQ M
45	17884
55	11200
65	6079
75	4576
85	5139

CERTIFIED BY:

DATE:  
DEC 20, 2008

PREPARED FOR:

BEGHELLI USA  
MIRAMAR, FL, USA

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

LIGHTING SCIENCES CANADA LTD.  
440 PHILLIP ST., UNIT 19  
WATERLOO, ONTARIO

CERTIFIED TEST REPORT NO. LSCD581  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI DRACO BS720 LUMINAIRE CAT. NO. DRACO BS720CF4MD42W120/277AC50  
WITH 16" PRISMATIC REFLECTOR/REFRACTOR AND ALUMINUM RING  
FOUR 42W TRIPLE-TUBE COMPACT FLUORESCENT LAMPS. LUMEN RATING = 3200 LMS.  
TWO UNIVERSAL TRIAD 120-277V 1 OR 2-LAMP ELECTRONIC BALLASTS NO. C242UNVSE

CANDLEPOWER DATA

ANGLE	CANDLEPOWER	LUMENS
0	989	
5	1056	108
10	1216	
15	1432	413
20	1665	
25	1957	927
30	2357	
35	2708	1663
40	2707	
45	2363	1803
50	1903	
55	1449	1303
60	1054	
65	746	754
70	554	
75	514	552
80	516	
85	506	559
90	521	
95	534	581
100	539	
105	529	558
110	504	
115	462	456
120	414	
125	363	325
130	310	
135	260	201
140	206	
145	158	100
150	112	
155	68	34
160	44	
165	34	10
170	28	
175	21	2
180	26	

LIGHTING SCIENCES CANADA LTD.  
440 PHILLIP ST., UNIT 19  
WATERLOO, ONTARIO

CERTIFIED TEST REPORT NO. LSCD581  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI DRACO BS720 LUMINAIRE CAT. NO. DRACO BS720CF4MD42W120/277AC50  
WITH 16" PRISMATIC REFLECTOR/REFRACTOR AND ALUMINUM RING  
FOUR 42W TRIPLE-TUBE COMPACT FLUORESCENT LAMPS. LUMEN RATING = 3200 LMS.  
TWO UNIVERSAL TRIAD 120-277V 1 OR 2-LAMP ELECTRONIC BALLASTS NO. C242UNVSE

AVERAGE LUMINANCE DATA

ANGLE	LUMINANCE	
0	34705	( 10129)
30	18315	( 5345)
40	20511	( 5986)
45	17884	( 5219)
50	14499	( 4231)
55	11200	( 3269)
60	8330	( 2431)
65	6079	( 1774)
70	4697	( 1370)
75	4576	( 1335)
80	4873	( 1422)
85	5139	( 1499)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

LIGHTING SCIENCES CANADA LTD.  
440 PHILLIP ST., UNIT 19  
WATERLOO, ONTARIO

CERTIFIED TEST REPORT NO. LSCD581  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI DRACO BS720 LUMINAIRE CAT. NO. DRACO BS720CF4MD42W120/277AC50  
WITH 16" PRISMATIC REFLECTOR/REFRACTOR AND ALUMINUM RING  
FOUR 42W TRIPLE-TUBE COMPACT FLUORESCENT LAMPS. LUMEN RATING = 3200 LMS.  
TWO 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	.92	.92	.92	.92	.88	.88	.88	.88	.80	.80	.80	.73	.73	.73	.66	.66	.66	.66	.66	.66	.63
1	.83	.79	.75	.72	.79	.76	.72	.69	.69	.66	.64	.63	.61	.59	.57	.55	.54	.57	.55	.54	.51
2	.76	.69	.64	.59	.72	.66	.61	.57	.60	.56	.53	.55	.52	.49	.50	.48	.46	.49	.48	.46	.43
3	.69	.61	.54	.49	.66	.58	.52	.48	.53	.48	.44	.49	.45	.42	.44	.41	.39	.44	.41	.39	.36
4	.63	.54	.47	.42	.60	.52	.45	.40	.47	.42	.38	.43	.39	.36	.40	.36	.33	.40	.36	.33	.31
5	.58	.48	.41	.35	.55	.46	.39	.34	.42	.37	.32	.39	.34	.30	.35	.32	.28	.35	.32	.28	.26
6	.53	.42	.35	.30	.50	.40	.34	.29	.37	.32	.27	.34	.29	.26	.31	.27	.24	.31	.27	.24	.22
7	.48	.37	.30	.25	.46	.36	.29	.24	.33	.27	.23	.30	.25	.22	.28	.24	.20	.28	.24	.20	.18
8	.44	.33	.26	.21	.42	.32	.25	.21	.29	.24	.20	.27	.22	.18	.25	.20	.17	.25	.20	.17	.16
9	.40	.30	.23	.18	.38	.28	.22	.18	.26	.20	.17	.24	.19	.16	.22	.18	.15	.22	.18	.15	.13
10	.37	.26	.20	.15	.35	.25	.19	.15	.23	.18	.14	.21	.16	.13	.20	.15	.12	.20	.15	.12	.11

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
LUMINAIRE INPUT WATTS = 153.0  
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
BALLAST FACTORS HAVE NOT BEEN APPLIED.