



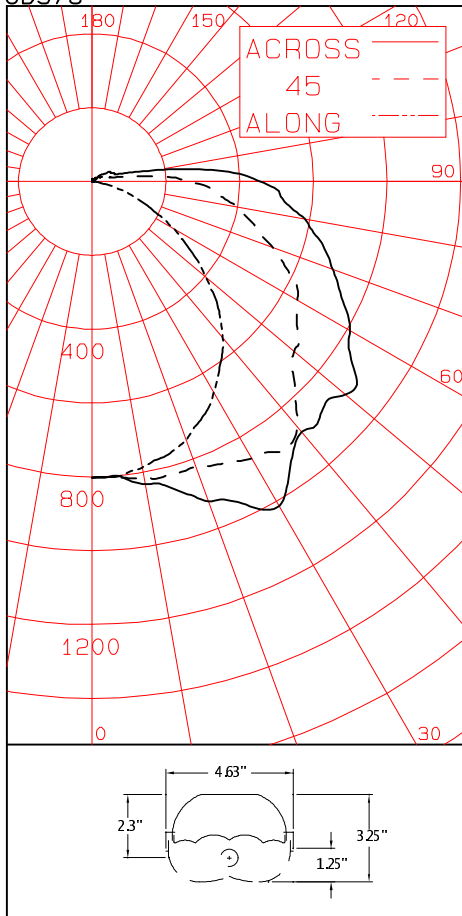
# LIGHTING SCIENCES CANADA LTD.

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. LSC D378  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI LINEAR 4 FOOT FLUORESCENT LUMINAIRE CAT. NO. BS111T5HO-4-HT-154W-120V  
WITH METALIZED REFLECTOR AND CLEAR WRAP LENS  
ONE 54W T5 HO FLUORESCENT LAMP. LUMEN RATING = 4450 LMS.  
ONE ADVANCE CENTIUM 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. ICN-2S54-90C

CD378



## CANDLEPOWER SUMMARY

## OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	802	802	802	802	802	
5	803	794	806	816	800	78
15	770	777	820	850	864	232
25	706	739	843	935	962	388
35	606	684	893	965	939	515
45	485	629	778	854	881	570
55	326	555	679	849	863	591
65	181	363	593	711	747	529
75	69	257	456	594	644	438
85	6	139	336	477	517	329
90	2	89	260	392	455	
95	2	29	164	294	342	182
105	0	26	58	70	86	56
115	0	0	39	60	56	32
125	0	0	5	23	35	14
135	0	0	6	10	10	4
145	0	0	0	1	0	1
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	699	15.71	17.65
0-40	1214	27.29	30.66
0-60	2374	53.37	59.97
0-90	3671	82.50	92.70
40-90	2456	55.21	62.04
60-90	1296	29.13	32.73
90-180	289	6.50	7.30
0-180	3960	89.00	100.00

\*\* EFFICIENCY = 89.0% \*\*

## LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.7

SC (ALONG) = 1.2, SC (ACROSS) = 1.7

ANGLE	ALONG	45	ACROSS
45	5390	7153	7636
55	4421	7099	8350
65	3266	7441	8478
75	1954	7427	9172
85	465	8211	10289

CERTIFIED BY:

*Charles Lison*

DATE:

SEP 3, 2008

PREPARED FOR:

BEGHELLI CANADA INC.  
MARKHAM, ONTARIO

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

LIGHTING SCIENCES CANADA LTD.  
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 WATERLOO, ONTARIO

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CANDLEPOWER DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	802	802	802	802	802	802	
5	803	794	806	816	800	804	78
10	787	792	817	842	833	815	
15	770	777	820	850	864	816	232
20	745	770	822	903	922	832	
25	706	739	843	935	962	838	388
30	660	710	867	983	1015	849	
35	606	684	893	965	939	829	515
40	552	669	867	876	885	783	
45	485	629	778	854	881	736	570
50	402	616	716	828	898	702	
55	326	555	679	849	863	669	591
60	253	436	643	769	809	595	
65	181	363	593	711	747	533	529
70	121	313	524	645	694	472	
75	69	257	456	594	644	416	438
80	26	181	402	538	586	357	
85	6	139	336	477	517	303	329
90	2	89	260	392	455	242	
95	2	29	164	294	342	165	182
100	0	36	68	151	180	86	
105	0	26	58	70	86	50	56
110	0	6	53	64	64	39	
115	0	0	39	60	56	32	32
120	0	0	25	45	53	24	
125	0	0	5	23	35	11	14
130	0	0	1	16	20	7	
135	0	0	6	10	10	5	4
140	0	0	0	6	6	2	
145	0	0	0	1	0	0	1
150	0	0	0	2	0	0	
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M.		(FOOTLAMBERTS)	
		22.5	45	67.5	ACROSS
0	6466 ( 1887)	6466 ( 1887)	6466 ( 1887)	6466 ( 1887)	6466 ( 1887)
30	6053 ( 1766)	6110 ( 1783)	7088 ( 2068)	7799 ( 2276)	7974 ( 2327)
40	5686 ( 1659)	6284 ( 1834)	7579 ( 2212)	7357 ( 2147)	7342 ( 2143)
45	5390 ( 1573)	6267 ( 1829)	7153 ( 2087)	7480 ( 2183)	7636 ( 2228)
50	4889 ( 1427)	6606 ( 1928)	6950 ( 2028)	7631 ( 2227)	8153 ( 2379)
55	4421 ( 1290)	6465 ( 1886)	7099 ( 2071)	8325 ( 2429)	8350 ( 2437)
60	3914 ( 1142)	5625 ( 1641)	7287 ( 2126)	8124 ( 2371)	8382 ( 2446)
65	3266 ( 953)	5283 ( 1542)	7441 ( 2171)	8220 ( 2399)	8478 ( 2474)
70	2677 ( 781)	5280 ( 1541)	7405 ( 2161)	8276 ( 2415)	8700 ( 2539)
75	1954 ( 570)	5190 ( 1515)	7427 ( 2167)	8673 ( 2531)	9172 ( 2677)
80	1059 ( 309)	4616 ( 1347)	7839 ( 2288)	9143 ( 2668)	9658 ( 2818)
85	465 ( 135)	4815 ( 1405)	8211 ( 2396)	9841 ( 2872)	10289 ( 3003)

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	1.04	1.04	1.04	1.04	1.01	1.01	1.01	1.01	.95	.95	.95	.90	.90	.90	.85	.85	.85	.82			
1	.93	.88	.83	.79	.90	.85	.81	.77	.80	.76	.73	.75	.72	.70	.71	.69	.66	.64			
2	.83	.75	.68	.62	.80	.73	.66	.61	.68	.63	.58	.64	.60	.56	.61	.57	.54	.51			
3	.75	.65	.57	.51	.73	.63	.56	.50	.60	.53	.48	.56	.51	.46	.53	.49	.45	.42			
4	.69	.57	.49	.42	.66	.56	.48	.41	.52	.46	.40	.49	.44	.39	.47	.42	.38	.35			
5	.62	.50	.41	.35	.60	.49	.40	.34	.46	.39	.33	.43	.37	.32	.41	.36	.31	.29			
6	.57	.44	.36	.30	.55	.43	.35	.29	.41	.34	.28	.39	.32	.28	.37	.31	.27	.25			
7	.52	.40	.31	.26	.51	.39	.31	.25	.36	.29	.24	.35	.28	.24	.33	.27	.23	.21			
8	.48	.35	.27	.22	.46	.34	.27	.21	.33	.26	.21	.31	.25	.20	.29	.24	.20	.18			
9	.44	.32	.24	.18	.43	.31	.23	.18	.29	.23	.18	.28	.22	.17	.26	.21	.17	.15			
10	.41	.29	.21	.16	.40	.28	.21	.16	.27	.20	.16	.25	.19	.15	.24	.19	.15	.13			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
LUMINAIRE INPUT WATTS = 61.2  
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
BALLAST FACTORS HAVE NOT BEEN APPLIED.