



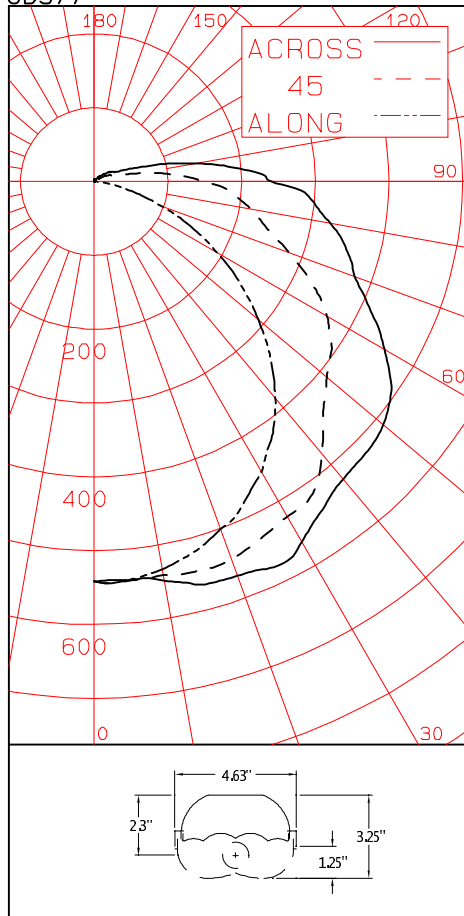
# LIGHTING SCIENCES CANADA LTD.

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 D377  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI LINEAR 4 FOOT FLUORESCENT LUMINAIRE CAT. NO. BS111T8-4-HT-132W-120V  
WITH METALIZED REFLECTOR AND CLEAR WRAP LENS  
ONE F32T8/TL841 32W T8 FLUORESCENT LAMP. LUMEN RATING = 2950 LMS.  
ONE UNIVERSAL TRIAD 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. B232IUNVHP-B

CD377



## CANDLEPOWER SUMMARY

## OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	542	542	542	542	542	
5	542	541	543	544	542	52
15	520	522	546	564	565	153
25	480	492	534	570	576	245
35	421	451	516	537	541	309
45	339	385	440	500	521	339
55	243	304	394	469	492	341
65	145	205	326	393	414	298
75	56	134	242	322	354	239
85	5	74	188	265	297	184
90	0	50	147	217	240	
95	0	29	108	171	198	111
105	0	11	37	71	87	45
115	0	0	17	30	31	17
125	0	0	7	16	18	7
135	0	0	1	8	11	2
145	0	0	0	2	2	0
155	0	0	0	0	1	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	450	15.27	19.22
0-40	759	25.75	32.41
0-60	1439	48.79	61.40
0-90	2160	73.24	92.17
40-90	1400	47.49	59.76
60-90	721	24.45	30.76
90-180	183	6.22	7.83
0-180	2344	79.46	100.00

\*\* EFFICIENCY = 79.5% \*\*

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

S/MH = 1.5

SC (ALONG) = 1.2, SC (ACROSS) = 1.5

ANGLE	ALONG	45	ACROSS
45	3765	4042	4515
55	3290	4114	4763
65	2626	4088	4701
75	1596	3940	5045
85	323	4588	5910

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.

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CANDLEPOWER DATA

ANGLE	PLANE					AVERAGE	OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS		
0	542	542	542	542	542	542	
5	542	541	543	544	542	542	52
10	533	533	541	550	549	541	
15	520	522	546	564	565	544	153
20	501	509	545	567	568	539	
25	480	492	534	570	576	531	245
30	454	473	524	564	564	517	
35	421	451	516	537	541	496	309
40	382	418	481	510	526	466	
45	339	385	440	500	521	439	339
50	291	353	412	490	512	414	
55	243	304	394	469	492	383	341
60	192	248	365	433	454	342	
65	145	205	326	393	414	301	298
70	96	174	283	350	376	261	
75	56	134	242	322	354	226	239
80	23	97	217	295	325	196	
85	5	74	188	265	297	169	184
90	0	50	147	217	240	134	
95	0	29	108	171	198	102	111
100	0	14	66	121	141	68	
105	0	11	37	71	87	41	45
110	0	4	25	40	49	23	
115	0	0	17	30	31	16	17
120	0	0	11	25	26	12	
125	0	0	7	16	18	8	7
130	0	0	2	12	13	5	
135	0	0	1	8	11	4	2
140	0	0	0	2	5	1	
145	0	0	0	2	2	1	0
150	0	0	0	1	1	0	
155	0	0	0	0	1	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	4368 ( 1274)	4368 ( 1274)	4368 ( 1274)	4368 ( 1274)	4368 ( 1274)
30	4163 ( 1215)	4074 ( 1189)	4286 ( 1250)	4471 ( 1304)	4428 ( 1292)
40	3941 ( 1150)	3928 ( 1146)	4204 ( 1227)	4284 ( 1250)	4363 ( 1273)
45	3765 ( 1099)	3837 ( 1119)	4042 ( 1179)	4377 ( 1277)	4515 ( 1318)
50	3536 ( 1032)	3780 ( 1103)	4003 ( 1168)	4512 ( 1317)	4649 ( 1356)
55	3290 ( 960)	3544 ( 1034)	4114 ( 1200)	4597 ( 1341)	4763 ( 1390)
60	2972 ( 867)	3205 ( 935)	4139 ( 1208)	4573 ( 1334)	4711 ( 1375)
65	2626 ( 766)	2982 ( 870)	4088 ( 1193)	4543 ( 1326)	4701 ( 1372)
70	2118 ( 618)	2941 ( 858)	4001 ( 1167)	4488 ( 1310)	4714 ( 1375)
75	1596 ( 465)	2707 ( 790)	3940 ( 1149)	4695 ( 1370)	5045 ( 1472)
80	934 ( 272)	2465 ( 719)	4234 ( 1235)	5011 ( 1462)	5355 ( 1563)
85	323 ( 94)	2578 ( 752)	4588 ( 1339)	5473 ( 1597)	5910 ( 1725)

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	.93	.93	.93	.93	.90	.90	.90	.90	.85	.85	.85	.80	.80	.80	.75	.75	.75	.75	.75	.75	.73
1	.83	.79	.74	.71	.80	.76	.72	.69	.71	.68	.66	.67	.65	.63	.63	.61	.60	.63	.61	.60	.57
2	.75	.68	.61	.56	.72	.65	.60	.55	.61	.57	.53	.58	.54	.51	.55	.51	.49	.55	.51	.49	.46
3	.68	.59	.52	.46	.65	.57	.51	.45	.54	.48	.44	.51	.46	.42	.48	.44	.41	.48	.44	.41	.39
4	.62	.52	.44	.39	.60	.50	.44	.38	.48	.42	.37	.45	.40	.36	.42	.38	.35	.42	.38	.35	.33
5	.56	.45	.38	.32	.54	.44	.37	.32	.42	.35	.31	.39	.34	.30	.37	.33	.29	.37	.33	.29	.27
6	.52	.40	.33	.28	.50	.39	.32	.27	.37	.31	.26	.35	.30	.26	.33	.29	.25	.33	.29	.25	.23
7	.48	.36	.29	.24	.46	.35	.28	.23	.33	.27	.23	.32	.26	.22	.30	.25	.21	.30	.25	.21	.20
8	.44	.32	.25	.20	.42	.31	.25	.20	.30	.24	.20	.28	.23	.19	.27	.22	.19	.27	.22	.19	.17
9	.40	.29	.22	.17	.39	.28	.22	.17	.27	.21	.17	.26	.20	.16	.24	.19	.16	.24	.19	.16	.14
10	.37	.26	.20	.15	.36	.26	.19	.15	.24	.19	.15	.23	.18	.14	.22	.17	.14	.22	.17	.14	.12

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 32.1  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.