



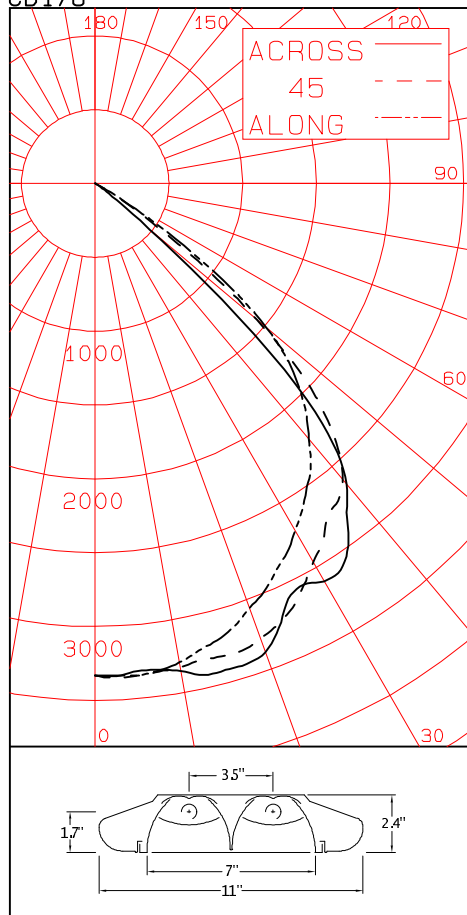
LIGHTING SCIENCES CANADA LTD.

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CERTIFIED TEST REPORT NO. LSC D178
COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI LEADER BS500 4' INDOOR FLUORESCENT LUMINAIRE CAT. NO. LEADER BS500
WITH SPECULAR REFLECTOR AND 50-CELL SPECULAR LOUVER
TWO PENTRON FP54/841/HO/ECO 4100K 54W T5 FLUOR. LAMPS. LUMEN RATING = 4450 LMS.
ONE UNIVERSAL ACCUSTART 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. B254PUNV-D

CD178



CANDLEPOWER SUMMARY

OUTPUT
LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	3332	3332	3332	3332	3332	
5	3343	3339	3345	3327	3314	323
10	3294	3287	3328	3347	3352	
15	3202	3204	3316	3422	3411	933
20	3060	3077	3281	3379	3379	
25	2899	2968	3169	3165	3103	1417
30	2715	2807	2961	3020	3109	
35	2507	2620	2746	2992	2995	1724
40	2255	2376	2611	2632	2652	
45	1956	2106	2197	2068	1937	1527
50	1518	1610	1431	826	482	
55	734	857	541	165	59	491
60	151	277	93	13	0	
65	0	5	0	2	0	22
70	0	0	0	0	0	
75	0	0	0	0	0	0
80	0	0	0	0	0	
85	0	0	0	0	0	0
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	2672	30.02	41.52
0-40	4396	49.39	68.31
0-60	6413	72.06	99.65
0-90	6435	72.31	100.00
40-90	2039	22.92	31.69
60-90	22	.25	.35
90-180	0	.00	.00
0-180	6435	72.31	100.00

** EFFICIENCY = 72.3% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.4

SC (ALONG) = 1.2, SC (ACROSS) = 1.4

ANGLE	ALONG	45	ACROSS
45	13918	15697	13837
55	6439	4764	518
65	0	0	0
75	0	0	0
85	0	0	0

CERTIFIED BY:

Charles Lison

DATE:

MAR 29, 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
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	3332	3332	3332	3332	3332	3332	
2.5	3334	3327	3351	3350	3338	3341	
5.0	3343	3339	3345	3327	3314	3335	323
7.5	3326	3328	3333	3331	3319	3329	
10.0	3294	3287	3328	3347	3352	3321	
12.5	3241	3243	3306	3405	3410	3320	
15.0	3202	3204	3316	3422	3411	3312	933
17.5	3142	3139	3317	3406	3412	3285	
20.0	3060	3077	3281	3379	3379	3239	
22.5	2994	3016	3233	3290	3258	3166	
25.0	2899	2968	3169	3165	3103	3076	1417
27.5	2819	2897	3068	3020	3063	2981	
30.0	2715	2807	2961	3020	3109	2925	
32.5	2616	2713	2875	3053	3100	2875	
35.0	2507	2620	2746	2992	2995	2777	1724
37.5	2405	2481	2707	2826	2805	2655	
40.0	2255	2376	2611	2632	2652	2518	
42.5	2121	2238	2443	2414	2389	2338	
45.0	1956	2106	2197	2068	1937	2080	1527
47.5	1776	1914	1884	1512	1162	1695	
50.0	1518	1610	1431	826	482	1217	
52.5	1168	1254	960	379	184	817	
55.0	734	857	541	165	59	490	491
57.5	382	544	265	64	11	267	
60.0	151	277	93	13	0	115	
62.5	43	101	9	7	0	35	
65.0	0	5	0	2	0	2	22
67.5	2	0	0	0	0	0	
70.0	0	0	0	0	0	0	
72.5	0	0	0	0	0	0	
75.0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	
80.0	0	0	0	0	0	0	
82.5	0	0	0	0	0	0	
85.0	0	0	0	0	0	0	0
87.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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AVERAGE LUMINANCE DATA

		CD. / SQ. M.		(FOOTLAMBERTS)			
ANGLE	ALONG	22.5	45	67.5	ACROSS		
0	16770 (4894)	16770 (4894)	16770 (4894)	16770 (4894)	16770 (4894)	16770 (4894)	
30	15776 (4604)	16356 (4773)	17248 (5034)	17588 (5133)	18069 (5273)	18069 (5273)	
40	14813 (4323)	15649 (4567)	17171 (5011)	17334 (5059)	17424 (5085)	17424 (5085)	
45	13918 (4062)	15008 (4380)	15697 (4581)	14764 (4309)	13837 (4038)	13837 (4038)	
50	11885 (3469)	12653 (3693)	11202 (3269)	6480 (1891)	3774 (1101)	3774 (1101)	
55	6439 (1879)	7536 (2199)	4764 (1390)	1450 (423)	518 (151)	518 (151)	
60	1518 (443)	2799 (817)	935 (272)	132 (38)	0 (0)	0 (0)	
65	0 (0)	58 (17)	0 (0)	24 (7)	0 (0)	0 (0)	
70	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
75	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
80	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	
85	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	

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	.86	.86	.86	.86	.84	.84	.84	.84	.80	.80	.80	.77	.77	.77	.74	.74	.74	.74	.74	.74	.72
1	.81	.79	.77	.75	.80	.78	.76	.74	.75	.73	.72	.72	.71	.70	.69	.69	.68	.68	.68	.68	.66
2	.77	.73	.70	.67	.75	.71	.68	.66	.69	.67	.64	.67	.65	.63	.65	.63	.62	.62	.62	.62	.61
3	.72	.67	.62	.59	.70	.66	.62	.59	.64	.60	.58	.62	.59	.57	.60	.58	.56	.56	.56	.56	.55
4	.67	.61	.56	.53	.66	.60	.56	.52	.59	.55	.52	.57	.54	.51	.56	.53	.51	.51	.51	.51	.49
5	.63	.56	.51	.47	.61	.55	.50	.47	.53	.49	.46	.52	.49	.46	.51	.48	.45	.45	.45	.45	.44
6	.59	.51	.46	.42	.57	.50	.45	.42	.49	.45	.42	.48	.44	.41	.47	.44	.41	.41	.41	.41	.40
7	.54	.46	.41	.38	.53	.46	.41	.37	.45	.40	.37	.44	.40	.37	.43	.39	.37	.37	.37	.37	.35
8	.50	.42	.37	.33	.49	.41	.36	.33	.40	.36	.33	.40	.36	.32	.39	.35	.32	.32	.32	.32	.31
9	.46	.38	.32	.29	.45	.37	.32	.29	.36	.32	.29	.36	.32	.28	.35	.31	.28	.28	.28	.28	.27
10	.43	.34	.29	.26	.42	.34	.29	.26	.33	.29	.25	.33	.28	.25	.32	.28	.25	.25	.25	.25	.24

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRE INPUT WATTS = 110.0
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST FACTORS HAVE NOT BEEN APPLIED.