

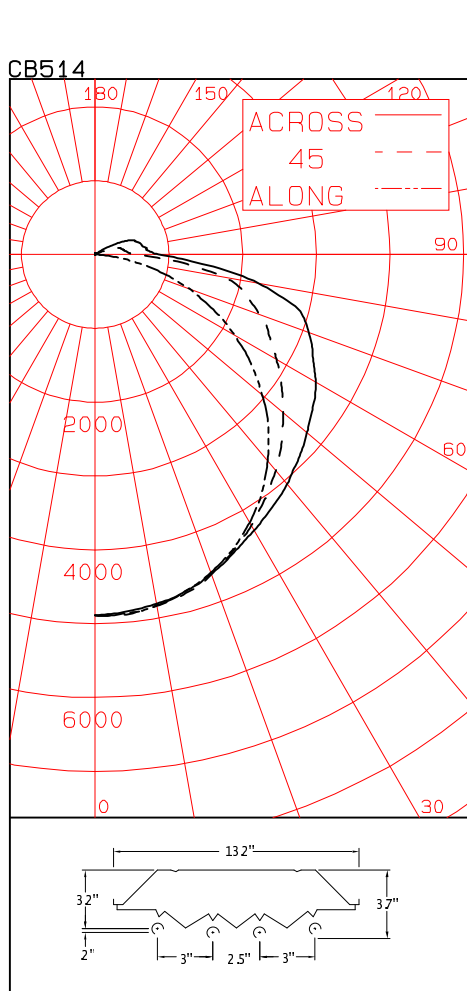


LIGHTING SCIENCES CANADA LTD.

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 B514
 COMPUTED BY LSC PROGRAM **TEST-LITE**

JAFTECH 4' HIGH BAY FLUORESCENT FIXTURE CAT. NO. F604-454-4UHO-HB
 WITH HIGH REFLECTANCE WHITE REFLECTOR
 FOUR FP54/841C/HO/ECO 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4900 LMS.
 ONE SYLVANIA 120-277V 1 TO 4-LAMP ELEC. BALLAST NO. QTP 4x54T5HO/UNV PSN HT W



CANDLEPOWER SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	4890	4890	4890	4890	4890	
5	4877	4878	4895	4868	4855	471
15	4723	4723	4750	4744	4722	1335
25	4415	4406	4432	4447	4455	2041
35	3946	3949	4030	4150	4184	2532
45	3330	3346	3581	3820	3909	2768
55	2587	2650	3086	3453	3607	2748
65	1765	1945	2607	3095	3257	2519
75	920	1312	2116	2703	2851	2077
85	111	629	1122	1396	1455	1088
90	0	194	543	815	858	
95	0	135	431	634	703	435
105	0	0	351	538	620	312
115	0	0	38	304	405	140
125	0	0	0	0	22	11
135	0	0	0	0	0	0
145	0	0	0	0	0	0
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	3846	19.62	20.82
0-40	6378	32.54	34.52
0-60	11893	60.68	64.37
0-90	17578	89.68	95.14
40-90	11199	57.14	60.61
60-90	5684	29.00	30.76
90-180	898	4.58	4.86
0-180	18476	94.27	100.00

** EFFICIENCY = 94.3% **

LUMINANCE SUMMARY-CD. / SQ. M.

PAINT REFLECTANCE = .90 S/MH = 1.3
 SC = 1.3

ANGLE	ALONG	45	ACROSS
45	12371	12301	13003
55	11846	12641	14136
65	10969	13740	16133
75	9335	16294	20003
85	3349	17142	18466

CERTIFIED BY:

Charles Sisson

DATE:
 JAN 4, 2007

PREPARED FOR:

JAFTECH MANUFACTURING LTD.
 NEWMARKET, ONTARIO

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. LSC B514
 COMPUTED BY LSC PROGRAM **TEST-LITE**

JAFTECH 4' HIGH BAY FLUORESCENT FIXTURE CAT. NO. F604-454-4UHO-HB
 WITH HIGH REFLECTANCE WHITE REFLECTOR
 FOUR FP54/841C/HO/ECO 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4900 LMS.
 ONE SYLVANIA 120-277V 1 TO 4-LAMP ELEC. BALLAST NO. QTP 4x54T5HO/UNV PSN HT W

CANDLEPOWER DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	4890	4890	4890	4890	4890	4890	
5	4877	4878	4895	4868	4855	4877	471
10	4823	4835	4834	4815	4805	4824	
15	4723	4723	4750	4744	4722	4735	1335
20	4586	4585	4612	4608	4599	4599	
25	4415	4406	4432	4447	4455	4430	2041
30	4192	4193	4242	4292	4316	4245	
35	3946	3949	4030	4150	4184	4048	2532
40	3645	3675	3814	3995	4059	3834	
45	3330	3346	3581	3820	3909	3592	2768
50	2956	2997	3329	3630	3753	3328	
55	2587	2650	3086	3453	3607	3071	2748
60	2180	2301	2840	3278	3455	2809	
65	1765	1945	2607	3095	3257	2540	2519
70	1354	1620	2373	2897	3083	2277	
75	920	1312	2116	2703	2851	2004	2077
80	481	1006	1781	2143	2247	1574	
85	111	629	1122	1396	1455	983	1088
90	0	194	543	815	858	495	
95	0	135	431	634	703	388	435
100	0	69	385	579	651	340	
105	0	0	351	538	620	300	312
110	0	0	192	495	559	242	
115	0	0	38	304	405	136	140
120	0	0	0	111	191	51	
125	0	0	0	0	22	3	11
130	0	0	0	0	0	0	
135	0	0	0	0	0	0	0
140	0	0	0	0	0	0	
145	0	0	0	0	0	0	0
150	0	0	0	0	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	

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

CERTIFIED TEST REPORT NO. LSC B514
 COMPUTED BY LSC PROGRAM **TEST-LITE**

JAFTECH 4' HIGH BAY FLUORESCENT FIXTURE CAT. NO. F604-454-4UHO-HB
 WITH HIGH REFLECTANCE WHITE REFLECTOR
 FOUR FP54/841C/HO/ECO 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4900 LMS.
 ONE SYLVANIA 120-277V 1 TO 4-LAMP ELEC. BALLAST NO. QTP 4x54T5HO/UNV PSN HT W

AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			ACROSS
		22.5	45	67.5	
0	12843 (3748)	12843 (3748)	12843 (3748)	12843 (3748)	12843 (3748)
30	12714 (3711)	12420 (3625)	12293 (3587)	12256 (3577)	12234 (3570)
40	12499 (3648)	12162 (3549)	12213 (3564)	12557 (3664)	12634 (3687)
45	12371 (3610)	11894 (3471)	12301 (3590)	12799 (3735)	13003 (3795)
50	12080 (3525)	11652 (3400)	12345 (3603)	13123 (3830)	13403 (3912)
55	11846 (3457)	11402 (3327)	12641 (3689)	13676 (3991)	14136 (4125)
60	11454 (3343)	11229 (3277)	13007 (3796)	14460 (4220)	15002 (4378)
65	10969 (3201)	11008 (3212)	13740 (4010)	15565 (4542)	16133 (4708)
70	10400 (3035)	11075 (3232)	14799 (4319)	17055 (4978)	17765 (5185)
75	9335 (2724)	11391 (3324)	16294 (4755)	19417 (5667)	20003 (5838)
80	7280 (2124)	12092 (3529)	18207 (5314)	19860 (5796)	20155 (5882)
85	3349 (977)	12429 (3627)	17142 (5003)	18538 (5410)	18466 (5389)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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

CERTIFIED TEST REPORT NO. LSC B514
 COMPUTED BY LSC PROGRAM **TEST-LITE**

JAFTECH 4' HIGH BAY FLUORESCENT FIXTURE CAT. NO. F604-454-4UHO-HB
 WITH HIGH REFLECTANCE WHITE REFLECTOR
 FOUR FP54/841C/HO/ECO 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4900 LMS.
 ONE SYLVANIA 120-277V 1 TO 4-LAMP ELEC. BALLAST NO. QTP 4x54T5HO/UNV PSN HT W

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	1.111	1.111	1.111	1.11	1.081	1.081	1.081	1.08	1.021	1.021	1.02	.97	.97	.97	.92	.92	.92	.90			
1	1.00	.95	.90	.86	.97	.92	.88	.84	.87	.84	.81	.83	.80	.77	.78	.76	.74	.72			
2	.90	.81	.74	.68	.87	.79	.73	.67	.75	.70	.65	.71	.67	.63	.68	.64	.60	.58			
3	.82	.71	.63	.56	.79	.69	.62	.55	.66	.59	.54	.62	.57	.52	.59	.55	.51	.48			
4	.75	.63	.54	.47	.72	.61	.53	.46	.58	.51	.45	.55	.49	.44	.53	.47	.43	.41			
5	.68	.55	.46	.39	.65	.54	.45	.39	.51	.43	.38	.48	.42	.37	.46	.41	.36	.34			
6	.62	.49	.40	.34	.60	.48	.39	.33	.45	.38	.33	.43	.37	.32	.41	.36	.31	.29			
7	.57	.44	.35	.29	.55	.43	.35	.29	.41	.33	.28	.39	.32	.28	.37	.32	.27	.25			
8	.53	.39	.31	.25	.51	.38	.30	.25	.37	.29	.24	.35	.29	.24	.34	.28	.23	.21			
9	.49	.35	.27	.21	.47	.35	.27	.21	.33	.26	.21	.32	.25	.21	.30	.24	.20	.18			
10	.45	.32	.24	.19	.44	.31	.24	.19	.30	.23	.18	.29	.22	.18	.28	.22	.18	.16			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 232.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.