



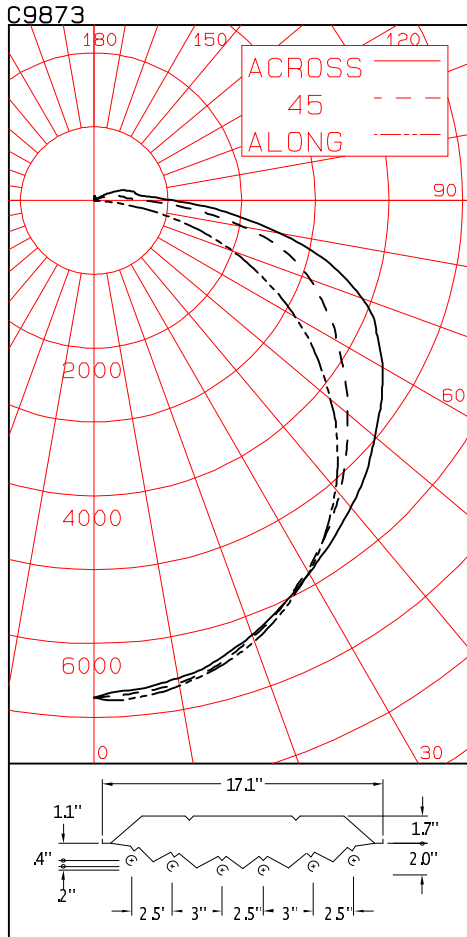
# LIGHTING SCIENCES CANADA LTD.

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. LSC9873  
 COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

JAFTECH 4' T5 HIGH BAY FLUORESCENT FIXTURE CAT. NO. F904-654-61HO-HB  
 WITH WHITE PAINTED REFLECTOR  
 SIX GE F54W/865 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4400 LMS.  
 THREE UNIVERSAL TRIAD 120-277V 1 OR 2-LAMP ELECTRONIC BALLASTS NO. B254PUNV-D

### CANDLEPOWER SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	6731	6731	6731	6731	6731	
5	6755	6755	6692	6667	6648	647
15	6546	6543	6512	6466	6447	1831
25	6108	6092	6057	6058	6046	2796
35	5480	5463	5500	5591	5631	3456
45	4661	4655	4838	5111	5223	3768
55	3686	3702	4148	4607	4760	3726
65	2576	2705	3469	4055	4229	3375
75	1394	1795	2694	3198	3318	2620
85	233	746	1327	1697	1796	1325
90	11	284	697	998	1082	
95	0	163	432	622	681	464
105	0	39	282	443	504	270
115	0	0	64	221	270	112
125	0	0	1	9	15	17
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	0

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	5273	19.98	21.60
0-40	8729	33.07	35.76
0-60	16223	61.45	66.47
0-90	23544	89.18	96.46
40-90	14814	56.12	60.70
60-90	7320	27.73	29.99
90-180	863	3.27	3.54
0-180	24407	92.45	100.00

\*\* EFFICIENCY = 92.5% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

PAINT REFLECTANCE = .94 S/MH = 1.3  
 SC = 1.3

ANGLE	ALONG	45	ACROSS
45	12448	11978	12536
55	12136	12260	13480
65	11511	13210	15166
75	10170	15038	16917
85	5039	14819	16720

CERTIFIED BY:

*Charles Sisson*

DATE:  
 AUG 22, 2003

PREPARED FOR:

JAFTECH MANUFACTURING LTD.  
 NEWMARKET, 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						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	6731	6731	6731	6731	6731	6731	
5	6755	6755	6692	6667	6648	6704	647
10	6672	6676	6634	6582	6569	6628	
15	6546	6543	6512	6466	6447	6504	1831
20	6354	6335	6294	6267	6263	6301	
25	6108	6092	6057	6058	6046	6071	2796
30	5824	5806	5794	5824	5832	5813	
35	5480	5463	5500	5591	5631	5527	3456
40	5099	5074	5182	5362	5425	5220	
45	4661	4655	4838	5111	5223	4886	3768
50	4185	4179	4491	4847	4977	4524	
55	3686	3702	4148	4607	4760	4170	3726
60	3151	3196	3804	4337	4521	3793	
65	2576	2705	3469	4055	4229	3408	3375
70	2009	2243	3121	3721	3873	3007	
75	1394	1795	2694	3198	3318	2511	2620
80	785	1344	2061	2478	2573	1891	
85	233	746	1327	1697	1796	1196	1325
90	11	284	697	998	1082	631	
95	0	163	432	622	681	380	464
100	0	92	349	536	565	308	
105	0	39	282	443	504	254	270
110	0	2	152	346	408	182	
115	0	0	64	221	270	111	112
120	0	0	5	91	147	49	
125	0	0	1	9	15	5	17
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	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			ACROSS
		22.5	45	67.5	
0	12710 ( 3709)	12710 ( 3709)	12710 ( 3709)	12710 ( 3709)	12710 ( 3709)
30	12698 ( 3706)	12376 ( 3612)	12090 ( 3528)	11981 ( 3496)	11912 ( 3476)
40	12570 ( 3668)	12086 ( 3527)	11956 ( 3489)	12152 ( 3546)	12177 ( 3554)
45	12448 ( 3633)	11913 ( 3477)	11978 ( 3496)	12354 ( 3605)	12536 ( 3658)
50	12293 ( 3588)	11698 ( 3414)	12011 ( 3505)	12650 ( 3692)	12832 ( 3745)
55	12136 ( 3542)	11477 ( 3349)	12260 ( 3578)	13180 ( 3846)	13480 ( 3934)
60	11899 ( 3473)	11241 ( 3281)	12579 ( 3671)	13834 ( 4037)	14198 ( 4144)
65	11511 ( 3359)	11038 ( 3221)	13210 ( 3855)	14759 ( 4307)	15166 ( 4426)
70	11093 ( 3237)	11067 ( 3230)	14083 ( 4110)	15876 ( 4633)	16183 ( 4723)
75	10170 ( 2968)	11262 ( 3287)	15038 ( 4389)	16687 ( 4870)	16917 ( 4937)
80	8539 ( 2492)	11699 ( 3414)	15317 ( 4470)	16732 ( 4883)	16823 ( 4910)
85	5039 ( 1470)	10723 ( 3129)	14819 ( 4325)	16511 ( 4819)	16720 ( 4880)

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	1.0	.91	.81	.71	1.0	.61	.51	.41	1.0	.11	.01	.96	.96	.96	.91	.91	.91	.89			
1	.99	.94	.89	.85	.96	.91	.87	.83	.86	.83	.80	.82	.80	.77	.78	.76	.74	.72			
2	.89	.81	.74	.68	.86	.79	.72	.67	.75	.69	.65	.71	.67	.63	.68	.64	.61	.59			
3	.81	.70	.62	.56	.78	.69	.61	.55	.65	.59	.54	.62	.57	.53	.60	.55	.51	.49			
4	.74	.62	.54	.47	.71	.61	.53	.46	.58	.51	.46	.55	.49	.45	.53	.48	.44	.41			
5	.67	.55	.46	.39	.65	.53	.45	.39	.51	.44	.38	.49	.42	.37	.46	.41	.37	.34			
6	.62	.49	.40	.34	.59	.47	.39	.33	.45	.38	.33	.43	.37	.32	.42	.36	.31	.29			
7	.57	.43	.35	.29	.55	.43	.35	.29	.41	.33	.28	.39	.33	.28	.38	.32	.27	.25			
8	.52	.39	.31	.25	.51	.38	.30	.25	.37	.29	.24	.35	.29	.24	.34	.28	.24	.22			
9	.48	.35	.27	.21	.47	.34	.27	.21	.33	.26	.21	.32	.25	.21	.30	.25	.20	.19			
10	.45	.32	.24	.19	.43	.31	.24	.19	.30	.23	.19	.29	.23	.18	.28	.22	.18	.16			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 331.0  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.