

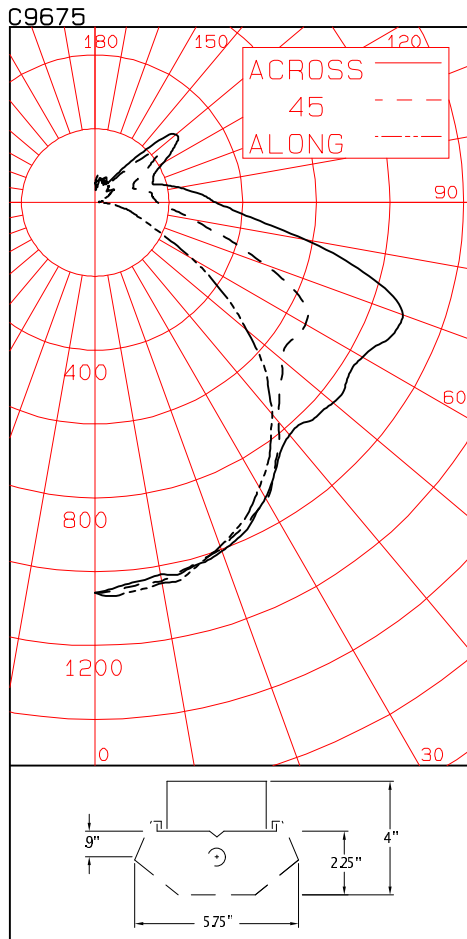


LIGHTING SCIENCES CANADA LTD.

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. LSC9675
 COMPUTED BY LSC PROGRAM **TEST-LITE**

JAFTECH 4' WRAP-AROUND FLUORESCENT FIXTURE CAT. NO. F704-154-11HO-PC
 WITH WHITE PAINTED BALLAST COVER AND PRISMATIC WRAP LENS
 ONE SYLVANIA FP54/841/HO 54W T5 HO FLUORESCENT LAMP. LUMEN RATING = 4400 LMS.
 ONE OSRAM QUICKTRONIC 120V 1-LAMP ELECTRONIC BALLAST NO. QT 1x54/120PHO



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	1058
0	1058	1058	1058	1058	1058	
5	1059	1048	1046	1044	1036	101
15	1029	1023	1018	1031	1021	289
25	951	944	966	976	976	443
35	827	838	855	857	862	531
45	657	650	710	786	833	558
55	418	458	650	782	835	565
65	195	287	617	827	877	554
75	102	157	366	655	769	425
85	43	96	210	363	411	250
90	16	79	169	276	327	
95	11	78	157	251	282	172
105	20	64	129	176	188	127
115	36	60	115	174	176	114
125	62	118	187	250	262	155
135	43	84	148	215	219	113
145	60	60	65	66	75	45
155	61	68	74	57	51	30
165	64	53	64	70	64	18
175	75	65	60	51	47	5
180	53	53	53	53	53	

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	832	18.92	18.52
0-40	1363	30.99	30.34
0-60	2487	56.53	55.33
0-90	3715	84.45	82.66
40-90	2352	53.46	52.33
60-90	1228	27.92	27.33
90-180	779	17.71	17.34
0-180	4494	102.16	100.00

** EFFICIENCY =102.2% **

LUMINANCE SUMMARY-CD. / SQ. M.

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

ANGLE	ALONG	45	ACROSS
45	6663	5396	5734
55	5225	5497	6222
65	3305	6089	7367
75	2826	4487	7676
85	3512	3550	5244

CERTIFIED BY:

Charles Sisson

DATE:
 MAR 19, 2003

PREPARED FOR:

JAFTECH MFG. 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	1058	1058	1058	1058	1058	1058	
5	1059	1048	1046	1044	1036	1046	101
10	1047	1041	1041	1038	1023	1039	
15	1029	1023	1018	1031	1021	1024	289
20	992	981	999	1007	1005	996	
25	951	944	966	976	976	963	443
30	890	897	931	936	925	918	
35	827	838	855	857	862	849	531
40	749	756	773	806	822	780	
45	657	650	710	786	833	723	558
50	534	543	663	782	844	669	
55	418	458	650	782	835	629	565
60	303	375	659	788	838	598	
65	195	287	617	827	877	567	554
70	137	209	489	798	888	502	
75	102	157	366	655	769	404	425
80	68	118	276	496	577	303	
85	43	96	210	363	411	224	250
90	16	79	169	276	327	174	
95	11	78	157	251	282	158	172
100	21	72	154	216	233	142	
105	20	64	129	176	188	118	127
110	26	54	110	158	167	105	
115	36	60	115	174	176	114	114
120	45	77	140	197	213	136	
125	62	118	187	250	262	179	155
130	51	113	211	277	286	193	
135	43	84	148	215	219	145	113
140	60	64	87	126	132	93	
145	60	60	65	66	75	65	45
150	57	64	69	68	64	66	
155	61	68	74	57	51	64	30
160	58	57	70	67	56	63	
165	64	53	64	70	64	63	18
170	68	61	53	57	65	59	
175	75	65	60	51	47	59	5
180	53	53	53	53	53	53	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			
		22.5	45	67.5	ACROSS
0	7586 (2214)	7586 (2214)	7586 (2214)	7586 (2214)	7586 (2214)
30	7370 (2151)	6732 (1964)	6463 (1886)	6186 (1805)	5997 (1750)
40	7007 (2045)	6146 (1793)	5641 (1646)	5515 (1609)	5488 (1601)
45	6663 (1944)	5577 (1627)	5396 (1575)	5539 (1616)	5734 (1673)
50	5959 (1739)	4987 (1455)	5269 (1538)	5728 (1671)	5992 (1748)
55	5225 (1525)	4540 (1325)	5497 (1604)	6010 (1754)	6222 (1816)
60	4343 (1267)	4098 (1196)	5963 (1740)	6411 (1871)	6566 (1916)
65	3305 (964)	3494 (1019)	6089 (1777)	7224 (2108)	7367 (2150)
70	2863 (835)	2928 (854)	5325 (1554)	7566 (2208)	8042 (2347)
75	2826 (825)	2600 (758)	4487 (1309)	6870 (2005)	7676 (2240)
80	2822 (823)	2405 (701)	3919 (1143)	5848 (1707)	6417 (1873)
85	3512 (1025)	2567 (749)	3550 (1036)	4948 (1444)	5244 (1530)

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	1.17	1.17	1.17	1.17	1.13	1.13	1.13	1.13	1.04	1.04	1.04	.95	.95	.95	.88	.88	.88	.84			
1	1.06	1.00	.95	.91	1.01	.96	.92	.87	.88	.85	.82	.81	.79	.76	.75	.73	.71	.67			
2	.95	.86	.79	.72	.91	.83	.76	.70	.76	.71	.66	.70	.66	.62	.65	.61	.58	.54			
3	.86	.75	.67	.60	.82	.72	.64	.58	.67	.60	.55	.61	.56	.52	.57	.52	.48	.45			
4	.79	.66	.57	.50	.75	.64	.55	.49	.59	.52	.46	.54	.48	.44	.50	.45	.41	.38			
5	.72	.58	.49	.42	.68	.56	.47	.41	.52	.44	.39	.48	.41	.37	.44	.39	.35	.32			
6	.66	.52	.43	.36	.63	.50	.41	.35	.46	.39	.33	.43	.36	.32	.40	.34	.30	.27			
7	.61	.47	.37	.31	.58	.45	.36	.30	.42	.34	.29	.39	.32	.27	.36	.30	.26	.24			
8	.56	.42	.33	.27	.53	.40	.32	.26	.37	.30	.25	.35	.28	.24	.32	.27	.22	.20			
9	.52	.38	.29	.23	.49	.36	.28	.23	.34	.27	.22	.31	.25	.20	.29	.24	.19	.17			
10	.48	.34	.26	.20	.46	.33	.25	.20	.31	.24	.19	.29	.22	.18	.27	.21	.17	.15			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 59.9
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.