



LIGHTING SCIENCES CANADA LTD.

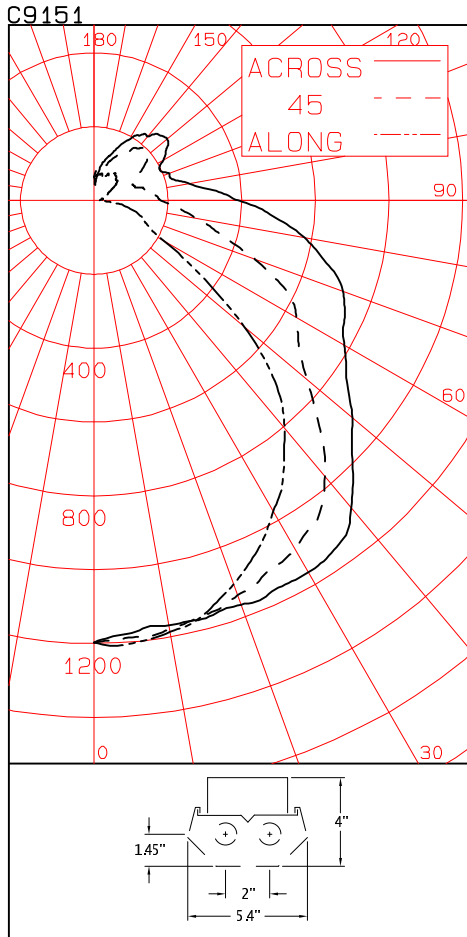
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CERTIFIED TEST REPORT NO. LSC9151
 COMPUTED BY LSC PROGRAM **TEST-LITE**

JAFTECH 4' WRAPAROUND FLUORESCENT FIXTURE CAT. NO. F704-232-21IS-PC
 WITH WHITE PAINTED REFLECTOR AND PRISMATIC WRAP LENS
 TWO OSRAM FO32/741 32W T8 FLUORESCENT LAMPS. LUMEN RATING = 2800 LMS.
 OSRAM 120V 2-LAMP ELECTRONIC BALLAST NO. QT2x32/120 IS-SC

CANDLEPOWER SUMMARY

OUTPUT
LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	1197	1197	1197	1197	1197	
5	1204	1190	1188	1187	1176	115
15	1159	1143	1162	1176	1171	328
25	1047	1049	1110	1160	1163	511
35	897	932	1055	1127	1146	642
45	694	726	863	963	991	653
55	354	463	678	815	836	574
65	160	230	574	760	751	499
75	117	146	355	613	653	398
85	39	99	228	404	488	273
90	18	78	180	301	391	
95	15	78	166	278	325	187
105	23	65	136	213	222	143
115	40	61	126	202	197	128
125	69	109	168	228	238	146
135	82	136	194	240	250	141
145	87	117	162	203	215	101
155	72	92	128	155	162	59
165	76	75	81	101	113	26
175	82	69	70	53	62	7
180	65	65	65	65	65	

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	953	17.02	19.33
0-40	1595	28.49	32.37
0-60	2822	50.41	57.27
0-90	3993	71.30	81.01
40-90	2397	42.82	48.65
60-90	1170	20.90	23.74
90-180	935	16.71	18.99
0-180	4928	88.02	100.00

** EFFICIENCY = 88.0% **

LUMINANCE SUMMARY-CD. / SQ. M.

PAINT REFLECTANCE = .93 S/MH = 1.5
 SC (ALONG) = 1.2, SC (ACROSS) = 1.5

ANGLE	ALONG	45	ACROSS
45	7043	6457	6683
55	4423	5612	6068
65	2724	5512	6106
75	3257	4193	6250
85	3191	3666	5891

CERTIFIED BY:

Charles Sisson

DATE:
APR 22, 2002

PREPARED FOR:

JAFTECH MFG. LTD.
 NEWMARKET, ONTARIO

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.

LIGHTING SCIENCES CANADA LTD.
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CANDLEPOWER DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	1197	1197	1197	1197	1197	1197	
5	1204	1190	1188	1187	1176	1189	115
10	1187	1177	1179	1173	1169	1177	
15	1159	1143	1162	1176	1171	1162	328
20	1107	1106	1137	1164	1165	1136	
25	1047	1049	1110	1160	1163	1106	511
30	973	992	1090	1146	1163	1074	
35	897	932	1055	1127	1146	1034	642
40	805	844	974	1070	1085	958	
45	694	726	863	963	991	849	653
50	533	593	754	877	916	737	
55	354	463	678	815	836	638	574
60	220	338	634	775	785	562	
65	160	230	574	760	751	505	499
70	146	168	463	707	718	443	
75	117	146	355	613	653	375	398
80	84	131	285	511	580	315	
85	39	99	228	404	488	249	273
90	18	78	180	301	391	191	
95	15	78	166	278	325	173	187
100	23	73	155	234	263	151	
105	23	65	136	213	222	134	143
110	26	59	116	212	216	127	
115	40	61	126	202	197	127	128
120	48	84	137	203	215	139	
125	69	109	168	228	238	165	146
130	83	132	194	244	259	185	
135	82	136	194	240	250	184	141
140	89	127	183	222	227	173	
145	87	117	162	203	215	158	101
150	79	114	155	186	191	147	
155	72	92	128	155	162	123	59
160	67	79	109	129	132	104	
165	76	75	81	101	113	88	26
170	76	72	67	75	90	74	
175	82	69	70	53	62	66	7
180	65	65	65	65	65	65	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			
		22.5	45	67.5	ACROSS
0	8587(2506)	8587(2506)	8587(2506)	8587(2506)	8587(2506)
30	8058(2351)	7407(2161)	7490(2186)	7480(2183)	7443(2172)
40	7536(2199)	6808(1987)	7009(2045)	7199(2101)	7115(2076)
45	7043(2055)	6168(1800)	6457(1884)	6658(1943)	6683(1950)
50	5949(1736)	5385(1571)	5886(1717)	6283(1834)	6353(1854)
55	4423(1290)	4540(1325)	5612(1637)	6111(1783)	6068(1771)
60	3158(921)	3639(1062)	5601(1634)	6134(1790)	5973(1743)
65	2724(795)	2759(805)	5512(1608)	6434(1877)	6106(1782)
70	3067(895)	2301(671)	4893(1428)	6471(1888)	6267(1829)
75	3257(950)	2352(686)	4193(1224)	6174(1802)	6250(1824)
80	3471(1013)	2577(752)	3877(1131)	5748(1677)	6147(1794)
85	3191(931)	2532(739)	3666(1070)	5221(1524)	5891(1719)

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	1.0	1.0	1.0	.97	.97	.97	.97	.89	.89	.89	.81	.81	.81	.74	.74	.74	.71			
1	.91	.86	.82	.79	.87	.83	.79	.76	.76	.73	.70	.70	.67	.65	.64	.62	.60	.57			
2	.82	.75	.69	.63	.79	.72	.66	.61	.66	.61	.57	.61	.57	.54	.56	.53	.50	.47			
3	.75	.66	.59	.53	.71	.63	.57	.51	.58	.53	.48	.53	.49	.45	.49	.46	.42	.40			
4	.69	.58	.50	.45	.65	.56	.49	.43	.52	.46	.41	.48	.43	.39	.44	.40	.36	.34			
5	.63	.51	.43	.38	.60	.49	.42	.37	.46	.39	.35	.42	.37	.33	.39	.35	.31	.29			
6	.58	.46	.38	.33	.55	.44	.37	.32	.41	.35	.30	.38	.32	.28	.35	.30	.27	.25			
7	.53	.41	.34	.28	.51	.40	.33	.27	.37	.31	.26	.34	.29	.25	.32	.27	.23	.21			
8	.49	.37	.30	.24	.47	.36	.29	.24	.33	.27	.23	.31	.25	.21	.28	.24	.20	.18			
9	.45	.33	.26	.21	.43	.32	.25	.21	.30	.24	.20	.28	.22	.19	.26	.21	.18	.16			
10	.42	.30	.23	.19	.40	.29	.23	.18	.27	.21	.17	.25	.20	.16	.24	.19	.15	.14			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 55.3
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.