

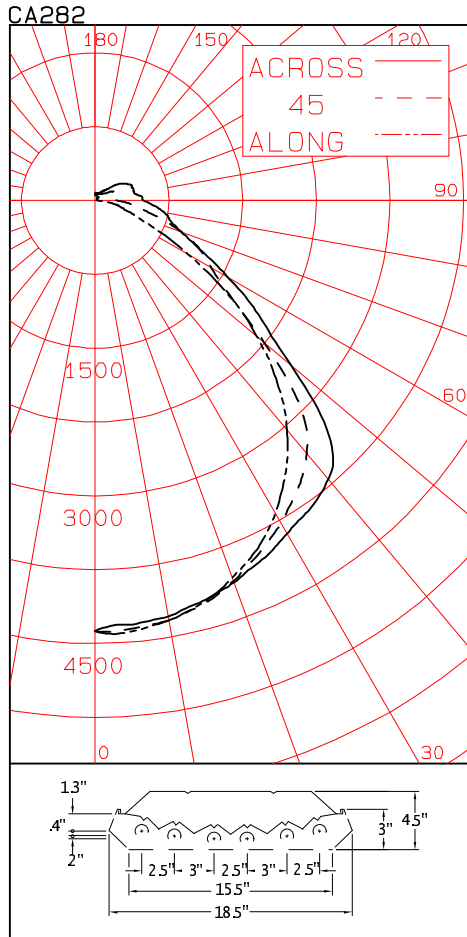


LIGHTING SCIENCES CANADA LTD.

440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9
 Tel: (519) 746-3140 Fax: (519) 746-3156 lsc@ionline.net

CERTIFIED TEST REPORT NO. LSCA282
 COMPUTED BY LSC PROGRAM **TEST-LITE**

JAFTECH 4' WRAP-AROUND FIXTURE CAT. NO. F904-632-61HO-HB-P
 WITH WHITE POWDER-COATED REFLECTOR AND HIGH-BAY VENTED PATTERNED LENS
 SIX F32T8/TL841 32W T8 FLUORESCENT LAMPS. LUMEN RATING = 2950 LMS.
 ONE WORK HORSE 8 120V 6-LAMP ELECTRONIC BALLAST NO. WH8-120-L



CANDLEPOWER SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	4374	4374
0	4374	4374	4374	4374	4374		
5	4389	4394	4361	4348	4322	421	
15	4231	4245	4247	4237	4214	1193	
25	3904	3923	3949	3996	4024	1822	
35	3379	3435	3592	3757	3819	2242	
45	2623	2693	2945	3202	3365	2238	
55	1631	1609	1667	1864	2032	1585	
65	674	920	1178	1359	1174	1085	
75	283	442	684	952	789	702	
85	78	192	349	571	601	396	
90	0	43	210	405	490		
95	0	54	205	394	477	237	
105	0	47	233	369	399	223	
115	0	66	215	349	385	204	
125	17	57	133	239	295	136	
135	41	44	93	136	158	75	
145	52	57	66	99	112	46	
155	56	54	73	80	85	30	
165	58	44	61	64	61	17	
175	63	49	51	58	63	6	
180	62	62	62	62	62		

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	3436	19.42	27.15
0-40	5678	32.08	44.86
0-60	9501	53.68	75.05
0-90	11685	66.02	92.30
40-90	6006	33.93	47.44
60-90	2183	12.33	17.24
90-180	975	5.51	7.70
0-180	12660	71.53	100.00

** EFFICIENCY = 71.5% **

LUMINANCE SUMMARY-CD. / SQ. M.

ANGLE	ALONG	45	ACROSS
45	7142	7178	7852
55	5476	4787	5500
65	3068	4276	3925
75	2105	3509	3591
85	1717	3245	4502

PAINT REFLECTANCE = .91 S/MH = 1.3
 SC (ALONG) = 1.2, SC (ACROSS) = 1.3

CERTIFIED BY:

Charles Sison

DATE:
MAY 10, 2004

PREPARED FOR:

JAFTECH MANUFACTURING
 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	4374	4374	4374	4374	4374	4374	
5	4389	4394	4361	4348	4322	4365	421
10	4330	4336	4329	4294	4292	4318	
15	4231	4245	4247	4237	4214	4238	1193
20	4076	4096	4115	4130	4130	4111	
25	3904	3923	3949	3996	4024	3958	1822
30	3669	3695	3784	3875	3907	3785	
35	3379	3435	3592	3757	3819	3596	2242
40	3035	3110	3350	3583	3691	3351	
45	2623	2693	2945	3202	3365	2958	2238
50	2149	2138	2243	2484	2600	2310	
55	1631	1609	1667	1864	2032	1743	1585
60	1092	1217	1369	1544	1567	1365	
65	674	920	1178	1359	1174	1095	1085
70	419	652	939	1170	930	859	
75	283	442	684	952	789	654	702
80	210	337	482	768	716	512	
85	78	192	349	571	601	363	396
90	0	43	210	405	490	226	
95	0	54	205	394	477	223	237
100	0	52	213	371	408	210	
105	0	47	233	369	399	212	223
110	4	56	226	375	395	214	
115	0	66	215	349	385	206	204
120	10	71	184	326	346	190	
125	17	57	133	239	295	146	136
130	20	59	111	187	224	120	
135	41	44	93	136	158	93	75
140	27	51	76	120	135	82	
145	52	57	66	99	112	76	46
150	45	60	75	78	76	69	
155	56	54	73	80	85	69	30
160	53	51	71	60	69	61	
165	58	44	61	64	61	57	17
170	57	68	43	58	49	55	
175	63	49	51	58	63	55	6
180	62	62	62	62	62	62	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			ACROSS
		22.5	45	67.5	
0	8422 (2458)	8422 (2458)	8422 (2458)	8422 (2458)	8422 (2458)
30	8156 (2380)	7937 (2316)	7883 (2300)	7911 (2309)	7904 (2306)
40	7627 (2226)	7428 (2167)	7649 (2232)	7971 (2326)	8111 (2367)
45	7142 (2084)	6890 (2011)	7178 (2095)	7549 (2203)	7852 (2291)
50	6436 (1878)	5961 (1739)	5872 (1714)	6277 (1832)	6467 (1887)
55	5476 (1598)	4946 (1443)	4787 (1397)	5118 (1493)	5500 (1605)
60	4205 (1227)	4221 (1232)	4360 (1272)	4678 (1365)	4652 (1357)
65	3068 (895)	3679 (1073)	4276 (1248)	4636 (1353)	3925 (1145)
70	2356 (687)	3121 (911)	3975 (1160)	4600 (1342)	3559 (1038)
75	2105 (614)	2653 (774)	3509 (1024)	4466 (1303)	3591 (1048)
80	2327 (679)	2733 (797)	3176 (927)	4492 (1311)	4027 (1175)
85	1717 (501)	2432 (709)	3245 (947)	4502 (1314)	4502 (1314)

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	.84	.84	.84	.84	.81	.81	.81	.81	.76	.76	.76	.72	.72	.72	.68	.68	.68	.68	.68	.68	.66
1	.77	.74	.71	.68	.75	.72	.69	.67	.68	.66	.64	.64	.62	.61	.61	.59	.58	.58	.58	.58	.56
2	.71	.65	.61	.57	.68	.63	.59	.56	.60	.57	.54	.57	.54	.52	.54	.52	.50	.50	.50	.50	.48
3	.65	.58	.53	.49	.63	.57	.52	.48	.54	.50	.46	.51	.48	.45	.49	.46	.43	.43	.43	.43	.42
4	.60	.52	.46	.42	.58	.51	.45	.41	.48	.44	.40	.46	.42	.39	.44	.41	.38	.38	.38	.38	.36
5	.55	.46	.40	.36	.53	.45	.39	.35	.43	.38	.35	.41	.37	.34	.39	.36	.33	.33	.33	.33	.31
6	.51	.42	.36	.31	.49	.41	.35	.31	.39	.34	.30	.37	.33	.30	.36	.32	.29	.29	.29	.29	.27
7	.47	.38	.32	.28	.45	.37	.31	.27	.35	.30	.27	.34	.29	.26	.32	.28	.25	.25	.25	.25	.24
8	.43	.34	.28	.24	.42	.33	.27	.23	.32	.27	.23	.30	.26	.23	.29	.25	.22	.22	.22	.22	.21
9	.40	.30	.25	.21	.38	.30	.24	.20	.28	.23	.20	.27	.23	.20	.26	.22	.19	.19	.19	.19	.18
10	.37	.28	.22	.18	.36	.27	.22	.18	.26	.21	.18	.25	.20	.17	.24	.20	.17	.17	.17	.17	.16

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

MINIMUM BULBWALL TEMPERATURE = 127.0 DEGREES F.
 LUMINAIRE INPUT WATTS = 196.2
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.