



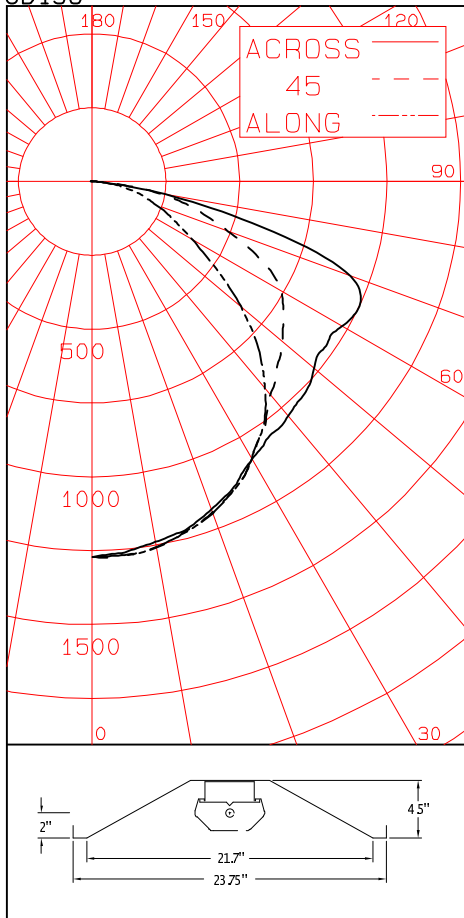
LIGHTING SCIENCES CANADA LTD.

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 D196
 COMPUTED BY LSC PROGRAM **TEST-LITE**

JAFTECH 2'x4' T-BAR FLUORESCENT LUMINAIRE CAT. NO. F704-154-1UHO-PC-REC
 WITH HIGH REFLECTANCE WHITE REFLECTOR AND RECESSED ACRYLIC LENS
 ONE 54W T5 HO FLUORESCENT LAMP. LUMEN RATING = 4450 LMS.
 ONE ULTRASAVE 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. ER254120MHT-W

CD196



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	1271	1271	1271	1271	1271	
5	1270	1273	1269	1271	1261	122
10	1256	1250	1259	1255	1239	
15	1229	1220	1226	1228	1222	346
20	1195	1189	1192	1199	1181	
25	1147	1138	1146	1144	1140	526
30	1082	1083	1080	1088	1085	
35	1013	1005	1019	1039	1050	639
40	912	906	941	1012	1036	
45	797	801	888	983	1018	690
50	658	693	844	941	983	
55	513	580	793	902	969	676
60	395	456	740	910	979	
65	302	353	636	935	1000	626
70	230	252	489	825	932	
75	172	183	363	557	599	392
80	105	128	231	270	252	
85	38	65	68	57	42	79
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	993	22.32	24.26
0-40	1632	36.68	39.87
0-60	2998	67.38	73.23
0-90	4094	92.01	100.00
40-90	2461	55.33	60.13
60-90	1095	24.63	26.77
90-180	0	.00	.00
0-180	4094	92.01	100.00

** EFFICIENCY = 92.0% **

LUMINANCE SUMMARY-CD. / SQ. M.

PAINT REFLECTANCE = .86 S/MH = 1.3
 SC = 1.3

ANGLE	ALONG	45	ACROSS
45	1741	1945	2230
55	1382	2144	2618
65	1104	2333	3669
75	1025	2167	3585
85	678	1203	749

CERTIFIED BY:

Charles Sisson

DATE:
 APR 4, 2008

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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 ONE ULTRASAVE 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. ER254120MHT-W

CANDLEPOWER DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	1271	1271	1271	1271	1271	1271	
2.5	1270	1262	1276	1273	1264	1269	
5.0	1270	1273	1269	1271	1261	1269	122
7.5	1268	1257	1268	1259	1248	1260	
10.0	1256	1250	1259	1255	1239	1253	
12.5	1243	1237	1246	1246	1229	1241	
15.0	1229	1220	1226	1228	1222	1225	346
17.5	1213	1203	1212	1212	1201	1209	
20.0	1195	1189	1192	1199	1181	1192	
22.5	1171	1159	1170	1175	1161	1168	
25.0	1147	1138	1146	1144	1140	1143	526
27.5	1120	1108	1122	1113	1108	1114	
30.0	1082	1083	1080	1088	1085	1084	
32.5	1046	1040	1043	1059	1069	1050	
35.0	1013	1005	1019	1039	1050	1023	639
37.5	967	956	975	1021	1049	990	
40.0	912	906	941	1012	1036	958	
42.5	855	854	919	995	1024	927	
45.0	797	801	888	983	1018	895	690
47.5	729	747	867	964	1005	861	
50.0	658	693	844	941	983	825	
52.5	586	636	816	923	965	788	
55.0	513	580	793	902	969	754	676
57.5	444	520	767	897	963	722	
60.0	395	456	740	910	979	698	
62.5	341	399	697	924	995	672	
65.0	302	353	636	935	1000	644	626
67.5	267	294	563	897	984	595	
70.0	230	252	489	825	932	537	
72.5	197	213	420	721	799	463	
75.0	172	183	363	557	599	372	392
77.5	137	153	301	405	416	284	
80.0	105	128	231	270	252	202	
82.5	79	94	143	142	126	120	
85.0	38	65	68	57	42	57	79
87.5	10	16	19	5	0	11	
90.0	0	0	0	0	0	0	

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 ONE ULTRASAVE 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. ER254120MHT-W

AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)					
		22.5		45		67.5	
0	1963 (573)	1963 (573)	1963 (573)	1963 (573)	1963 (573)	1963 (573)	1963 (573)
30	1929 (563)	1937 (565)	1930 (563)	1944 (567)	1935 (564)		
40	1839 (536)	1831 (534)	1899 (554)	2046 (597)	2087 (609)		
45	1741 (508)	1751 (511)	1945 (567)	2152 (628)	2230 (651)		
50	1580 (461)	1672 (488)	2027 (591)	2266 (661)	2362 (689)		
55	1382 (403)	1564 (456)	2144 (625)	2435 (710)	2618 (764)		
60	1220 (356)	1413 (412)	2288 (667)	2819 (822)	3024 (882)		
65	1104 (322)	1290 (376)	2333 (680)	3427 (1000)	3669 (1071)		
70	1039 (303)	1143 (333)	2215 (646)	3733 (1089)	4209 (1228)		
75	1025 (299)	1098 (320)	2167 (632)	3337 (974)	3585 (1046)		
80	932 (272)	1144 (333)	2062 (601)	2404 (701)	2240 (653)		
85	678 (198)	1155 (337)	1203 (351)	1010 (295)	749 (218)		

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	1.10	1.10	1.10	1.10	1.07	1.07	1.07	1.07	1.02	1.02	1.02	.98	.98	.98	.94	.94	.94	.92			
1	1.00	.96	.92	.88	.98	.94	.90	.87	.90	.87	.84	.86	.84	.81	.83	.81	.79	.77			
2	.91	.83	.77	.71	.89	.81	.76	.71	.78	.73	.69	.75	.71	.67	.72	.69	.66	.64			
3	.83	.73	.65	.59	.80	.71	.64	.59	.69	.63	.58	.66	.61	.57	.64	.60	.56	.54			
4	.76	.64	.56	.50	.73	.63	.56	.49	.61	.54	.49	.59	.53	.48	.57	.52	.48	.45			
5	.69	.57	.48	.42	.66	.55	.47	.41	.53	.46	.41	.51	.45	.40	.50	.44	.40	.38			
6	.63	.50	.42	.36	.61	.49	.41	.35	.48	.41	.35	.46	.40	.35	.45	.39	.34	.33			
7	.58	.45	.37	.31	.56	.44	.36	.31	.43	.36	.31	.41	.35	.30	.40	.34	.30	.28			
8	.53	.40	.32	.27	.52	.40	.32	.27	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24			
9	.49	.36	.28	.23	.48	.36	.28	.23	.35	.28	.23	.34	.27	.23	.33	.27	.22	.21			
10	.46	.33	.25	.20	.44	.32	.25	.20	.31	.25	.20	.31	.24	.20	.30	.24	.20	.18			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 61.6
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.