

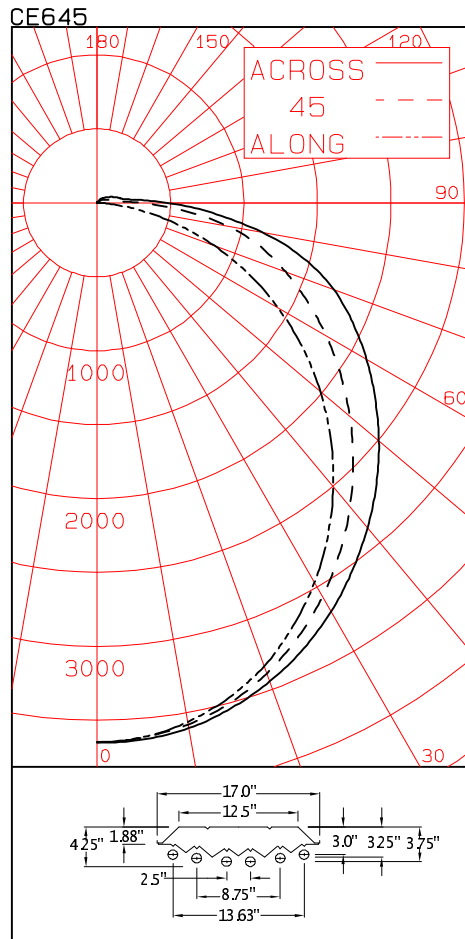


LIGHTING SCIENCES CANADA LTD.

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CERTIFIED TEST REPORT NO. LSC E645
 COMPUTED BY LSC PROGRAM **TEST-LITE**

JAFTECH HIGH-BAY TUBE LIGHT FIXTURE CAT. NO. FLS904-624LED-6U-HB-50
 WITH WHITE PAINTED REFLECTOR
 SIX SAMSUNG LED TUBE LAMPS. LUMEN OUTPUT = 11905 LMS.
 THREE 120V LED POWER SUPPLIES MODEL NO. LC18X110W048W28



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	3648
0	3648	3648	3648	3648	3648	3648
5	3627	3626	3630	3634	3643	350
15	3465	3475	3501	3524	3537	986
25	3159	3185	3240	3299	3326	1492
35	2742	2781	2883	2988	3034	1803
45	2249	2307	2467	2625	2691	1902
55	1711	1804	2023	2231	2313	1803
65	1140	1283	1581	1829	1921	1540
75	569	792	1153	1385	1458	1141
85	97	343	575	737	786	579
90	0	105	291	434	477	
95	0	38	123	216	247	158
105	0	17	74	125	141	76
115	0	1	45	80	93	44
125	0	1	29	53	61	25
135	0	0	1	26	37	8
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	2827	23.75	23.75
0-40	4630	38.89	38.89
0-60	8334	70.01	70.01
0-90	11593	97.38	97.38
40-90	6963	58.49	58.49
60-90	3258	27.37	27.37
90-180	311	2.62	2.62
0-180	11905	100.00	100.00

** EFFICACY = 82.2 LMS/WATT% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.3

SC (ALONG) = 1.2, SC (ACROSS) = 1.3

ANGLE	ALONG	45	ACROSS
45	6041	6516	7049
55	5665	6532	7380
65	5123	6827	8153
75	4173	7865	9678
85	2110	10145	12870

CERTIFIED BY:

Charles Sisson

DATE:
NOV 26, 2010

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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 160 FROBISHER DRIVE, UNIT 5
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CANDLEPOWER DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	3648	3648	3648	3648	3648	3648	
5	3627	3626	3630	3634	3643	3631	350
10	3564	3569	3583	3595	3607	3583	
15	3465	3475	3501	3524	3537	3500	986
20	3332	3347	3385	3423	3443	3386	
25	3159	3185	3240	3299	3326	3242	1492
30	2962	2996	3073	3154	3189	3075	
35	2742	2781	2883	2988	3034	2885	1803
40	2502	2549	2680	2811	2866	2681	
45	2249	2307	2467	2625	2691	2467	1902
50	1984	2056	2248	2431	2504	2245	
55	1711	1804	2023	2231	2313	2017	1803
60	1426	1542	1803	2032	2120	1788	
65	1140	1283	1581	1829	1921	1556	1540
70	849	1031	1366	1624	1715	1326	
75	569	792	1153	1385	1458	1086	1141
80	309	574	901	1085	1136	821	
85	97	343	575	737	786	524	579
90	0	105	291	434	477	267	
95	0	38	123	216	247	125	158
100	0	24	95	151	168	88	
105	0	17	74	125	141	72	76
110	0	13	57	101	116	57	
115	0	1	45	80	93	43	44
120	0	1	37	65	75	35	
125	0	1	29	53	61	28	25
130	0	1	6	42	49	18	
135	0	0	1	26	37	11	8
140	0	0	1	1	10	2	
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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 THREE 120V LED POWER SUPPLIES MODEL NO. LC18X110W048W28

AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			ACROSS
		22.5	45	67.5	
0	6928 (2022)	6928 (2022)	6928 (2022)	6928 (2022)	6928 (2022)
30	6497 (1896)	6546 (1910)	6676 (1948)	6828 (1992)	6878 (2007)
40	6204 (1810)	6278 (1832)	6537 (1907)	6832 (1994)	6936 (2024)
45	6041 (1763)	6136 (1790)	6516 (1901)	6885 (2009)	7049 (2057)
50	5861 (1710)	6017 (1756)	6482 (1892)	6976 (2036)	7150 (2086)
55	5665 (1653)	5890 (1719)	6532 (1906)	7132 (2081)	7380 (2154)
60	5418 (1581)	5765 (1682)	6617 (1931)	7391 (2157)	7664 (2236)
65	5123 (1495)	5636 (1645)	6827 (1992)	7793 (2274)	8153 (2379)
70	4714 (1376)	5572 (1626)	7197 (2100)	8411 (2455)	8813 (2572)
75	4173 (1218)	5599 (1634)	7865 (2295)	9263 (2703)	9678 (2824)
80	3378 (985)	5925 (1729)	8851 (2583)	10294 (3004)	10647 (3107)
85	2110 (616)	6640 (1938)	10145 (2960)	12301 (3590)	12870 (3756)

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	1.18	1.18	1.18	1.18	1.15	1.15	1.15	1.15	1.10	1.10	1.10	1.10	1.04	1.04	1.04	1.04	1.00	1.00	1.00	1.00	.97
1	1.07	1.02	.97	.93	1.04	1.00	.95	.91	.95	.91	.88	.90	.87	.85	.86	.84	.82	.82	.79	.79	.79
2	.97	.89	.82	.76	.95	.87	.80	.75	.83	.77	.72	.79	.75	.70	.76	.72	.69	.66	.66	.66	.66
3	.89	.78	.69	.63	.86	.76	.68	.62	.73	.66	.61	.70	.64	.59	.67	.62	.58	.56	.56	.56	.56
4	.82	.69	.61	.54	.79	.68	.60	.53	.65	.58	.52	.62	.56	.51	.60	.55	.50	.48	.48	.48	.48
5	.75	.62	.53	.46	.72	.60	.52	.46	.58	.51	.45	.56	.49	.44	.54	.48	.43	.41	.41	.41	.41
6	.69	.55	.46	.40	.67	.54	.46	.39	.52	.45	.39	.50	.43	.38	.48	.42	.38	.36	.36	.36	.36
7	.63	.49	.41	.35	.61	.48	.40	.34	.47	.39	.34	.45	.38	.33	.43	.37	.33	.31	.31	.31	.31
8	.59	.45	.36	.30	.57	.44	.36	.30	.42	.35	.30	.41	.34	.29	.40	.33	.29	.27	.27	.27	.27
9	.54	.41	.32	.27	.53	.40	.32	.26	.39	.31	.26	.37	.31	.26	.36	.30	.25	.24	.24	.24	.24
10	.50	.37	.29	.24	.49	.36	.29	.23	.35	.28	.23	.34	.27	.23	.33	.27	.23	.21	.21	.21	.21

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 144.8
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 ABSOLUTE PHOTOMETRY TAKEN.

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THREE 120V LED POWER SUPPLIES MODEL NO. LC18X110W048W28

SUPPLEMENTARY MEASUREMENTS AS PER IES-LM-79-08

STABILIZATION TIME: 1 HOUR

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 120.0 VRMS
INPUT CURRENT: 1.213 ARMS
INPUT WATTAGE: 144.78
POWER FACTOR: 0.995

CHROMATICITY MEASUREMENTS

CIE 1931-x: 0.336
CIE 1931-y: 0.343
CORRELATED COLOUR TEMPERATURE: 5327 DEG. K
COLOUR RENDERING INDEX: 66.3%