

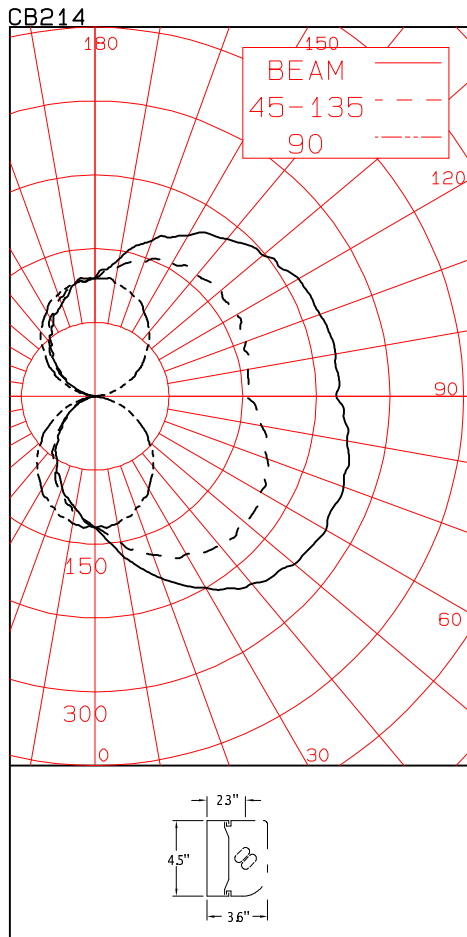


LIGHTING SCIENCES CANADA LTD.

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 B214
 COMPUTED BY LSC PROGRAM **TEST-LITE**

JAFTECH 18" VANITY FIXTURE CAT. NO. FC18-213-2UE-PC
 WITH WHITE BALLAST COVER AND FROSTED ACRYLIC LENS
 TWO 13W QUAD-TUBE COMPACT FLUORESCENT LAMPS. LUMEN RATING = 900 LMS.
 ONE SYLVANIA 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. QTP1/2x13CF/UNV TS



CANDLEPOWER SUMMARY

ANGLE	90	67.5	45	22.5	BEAM	OUTPUT LUMENS
0	134	134	134	134	134	
5	134	135	141	150	148	7
15	127	142	161	176	181	23
25	115	148	180	203	211	40
35	100	148	194	226	238	58
45	83	140	201	240	257	72
55	63	128	199	250	268	83
65	40	112	190	246	267	87
75	17	96	181	241	267	87
85	0	79	165	229	254	82
90	0	69	154	220	245	
95	1	70	157	219	248	78
105	19	76	162	220	247	78
115	40	91	162	220	242	76
125	59	104	165	212	229	70
135	78	114	165	204	218	61
145	93	120	162	189	202	48
155	107	123	154	174	178	34
165	114	127	141	154	158	20
175	120	121	129	129	129	6
180	120	120	120	120	120	

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	114	6.33	8.93
0-40	196	10.89	15.35
0-60	392	21.78	30.70
0-90	665	36.95	52.08
40-90	468	26.06	36.73
60-90	273	15.17	21.38
90-180	611	33.99	47.92
0-180	1276	70.94	100.00

** EFFICIENCY = 70.9% **

LUMINANCE SUMMARY-CD. / SQ. M.

ANGLE	90	45	BEAM SIDE
45	4419	4518	4651
55	4135	4411	4646
65	3563	4277	4597
75	2472	4270	4703
85	0	4257	4714

PAINT REFLECTANCE = .91

CERTIFIED BY:

Charles Sison

DATE:
MAY 23, 2006

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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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	.76	.76	.76	.76	.71	.71	.71	.71	.60	.60	.60	.50	.50	.50	.41	.41	.41	.37				
1	.68	.64	.60	.57	.62	.59	.56	.53	.50	.47	.45	.41	.40	.38	.33	.32	.31	.27				
2	.61	.55	.50	.45	.56	.51	.46	.42	.43	.39	.36	.35	.33	.30	.28	.27	.25	.21				
3	.55	.48	.42	.37	.51	.44	.39	.35	.37	.33	.30	.31	.28	.25	.25	.22	.20	.17				
4	.50	.42	.36	.31	.46	.39	.33	.29	.33	.28	.25	.27	.24	.21	.22	.19	.17	.15				
5	.46	.37	.31	.26	.42	.34	.29	.24	.29	.24	.21	.24	.20	.18	.19	.17	.15	.12				
6	.42	.33	.27	.22	.39	.30	.25	.21	.26	.21	.18	.21	.18	.15	.17	.15	.12	.10				
7	.39	.29	.23	.19	.35	.27	.22	.18	.23	.18	.15	.19	.16	.13	.15	.13	.11	.09				
8	.36	.26	.21	.16	.33	.24	.19	.15	.21	.16	.13	.17	.14	.11	.14	.11	.09	.08				
9	.33	.24	.18	.14	.30	.22	.17	.13	.19	.15	.12	.16	.12	.10	.13	.10	.08	.06				
10	.31	.22	.16	.13	.28	.20	.15	.12	.17	.13	.10	.14	.11	.09	.12	.09	.07	.06				

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 25.3
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.

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 ONE SYLVANIA 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. QTP1/2x13CF/UNV TS

BEAM SIDE
 CANDLEPOWER DATA

ANGLE	PLANE				BEAM SIDE	AVERAGE	OUTPUT LUMENS
	90	67.5	45	22.5			
0	134	134	134	134	134	134	
5	134	135	141	150	148	141	7
10	131	139	151	161	165	150	
15	127	142	161	176	181	158	23
20	121	144	171	194	197	167	
25	115	148	180	203	211	173	40
30	109	145	185	214	225	178	
35	100	148	194	226	238	184	58
40	92	143	198	238	248	187	
45	83	140	201	240	257	188	72
50	71	134	199	245	265	187	
55	63	128	199	250	268	186	83
60	51	124	195	248	271	182	
65	40	112	190	246	267	175	87
70	29	104	186	244	269	171	
75	17	96	181	241	267	165	87
80	6	88	172	236	260	157	
85	0	79	165	229	254	150	82
90	0	69	154	220	245	142	
95	1	70	157	219	248	143	78
100	9	70	158	221	248	144	
105	19	76	162	220	247	148	78
110	29	85	163	223	244	152	
115	40	91	162	220	242	154	76
120	48	100	166	217	239	157	
125	59	104	165	212	229	156	70
130	67	107	167	206	223	156	
135	78	114	165	204	218	158	61
140	86	119	161	195	209	156	
145	93	120	162	189	202	155	48
150	99	122	156	181	189	151	
155	107	123	154	174	178	148	34
160	110	127	145	163	168	144	
165	114	127	141	154	158	140	20
170	117	123	133	143	142	132	
175	120	121	129	129	129	126	6
180	120	120	120	120	120	120	

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BEAM SIDE
 AVERAGE LUMINANCE DATA

ANGLE	CD. / SQ. M. (FOOTLAMBERTS)				BEAM SIDE
	90	67.5	45	22.5	
0	5031 (1468)	5031 (1468)	5031 (1468)	5031 (1468)	5031 (1468)
30	4738 (1383)	4408 (1286)	4489 (1310)	4572 (1334)	4586 (1338)
40	4521 (1319)	4314 (1259)	4497 (1312)	4655 (1358)	4619 (1348)
45	4419 (1289)	4254 (1241)	4518 (1318)	4574 (1335)	4651 (1357)
50	4158 (1213)	4163 (1215)	4406 (1285)	4554 (1329)	4663 (1361)
55	4135 (1206)	4073 (1188)	4411 (1287)	4597 (1341)	4646 (1356)
60	3840 (1120)	4076 (1189)	4320 (1261)	4537 (1324)	4656 (1359)
65	3563 (1040)	3825 (1116)	4277 (1248)	4512 (1317)	4597 (1341)
70	3192 (931)	3751 (1094)	4283 (1250)	4506 (1315)	4644 (1355)
75	2472 (721)	3694 (1078)	4270 (1246)	4548 (1327)	4703 (1372)
80	1300 (379)	3651 (1065)	4228 (1234)	4560 (1330)	4663 (1361)
85	0 (0)	3559 (1038)	4257 (1242)	4592 (1340)	4714 (1376)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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OPPOSITE SIDE TO BEAM
 CANDLEPOWER DATA

ANGLE	PLANE				NON- BEAM	AVERAGE	OUTPUT LUMENS
	90	112.5	135	157.5			
0	134	134	134	134	134	134	
5	134	130	126	127	127	128	6
10	131	123	122	117	116	121	
15	127	117	113	110	107	114	16
20	121	108	104	99	99	105	
25	115	100	96	90	87	97	22
30	109	93	86	79	77	88	
35	100	85	74	71	70	79	25
40	92	74	64	60	58	68	
45	83	62	55	50	51	59	23
50	71	51	45	42	44	49	
55	63	42	37	34	35	40	18
60	51	33	30	27	27	32	
65	40	22	20	20	22	23	12
70	29	15	14	15	15	16	
75	17	6	8	8	8	9	5
80	6	1	4	4	5	3	
85	0	0	0	0	2	0	0
90	0	0	0	0	0	0	
95	1	1	0	0	0	0	1
100	9	8	4	3	3	5	
105	19	12	14	12	12	13	7
110	29	24	20	18	20	22	
115	40	34	29	25	28	30	15
120	48	43	36	35	34	39	
125	59	52	47	45	42	49	22
130	67	64	58	55	53	59	
135	78	70	66	64	60	67	26
140	86	79	74	69	69	75	
145	93	89	81	81	77	84	26
150	99	95	92	88	85	92	
155	107	103	95	95	93	98	23
160	110	109	106	99	100	105	
165	114	111	112	107	106	110	16
170	117	118	114	113	116	116	
175	120	117	117	117	117	117	6
180	120	120	120	120	120	120	

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OPPOSITE SIDE TO BEAM
 AVERAGE LUMINANCE DATA

ANGLE	CD. / SQ. M. (FOOTLAMBERTS)					NON-BEAM
	90	112.5	135	157.5		
0	5031 (1468)	5031 (1468)	5031 (1468)	5031 (1468)	5031 (1468)	5031 (1468)
30	4738 (1383)	2827 (825)	2092 (610)	1688 (492)	1573 (459)	
40	4521 (1319)	2240 (654)	1465 (427)	1180 (344)	1086 (317)	
45	4419 (1289)	1881 (549)	1232 (359)	959 (280)	929 (271)	
50	4158 (1213)	1585 (462)	989 (288)	774 (226)	771 (225)	
55	4135 (1206)	1322 (385)	811 (236)	618 (180)	611 (178)	
60	3840 (1120)	1084 (316)	654 (191)	494 (144)	471 (137)	
65	3563 (1040)	765 (223)	447 (130)	371 (108)	384 (112)	
70	3192 (931)	555 (162)	311 (90)	279 (81)	258 (75)	
75	2472 (721)	242 (70)	178 (52)	153 (44)	140 (40)	
80	1300 (379)	31 (9)	95 (27)	74 (21)	87 (25)	
85	0 (0)	0 (0)	0 (0)	0 (0)	32 (9)	

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES