

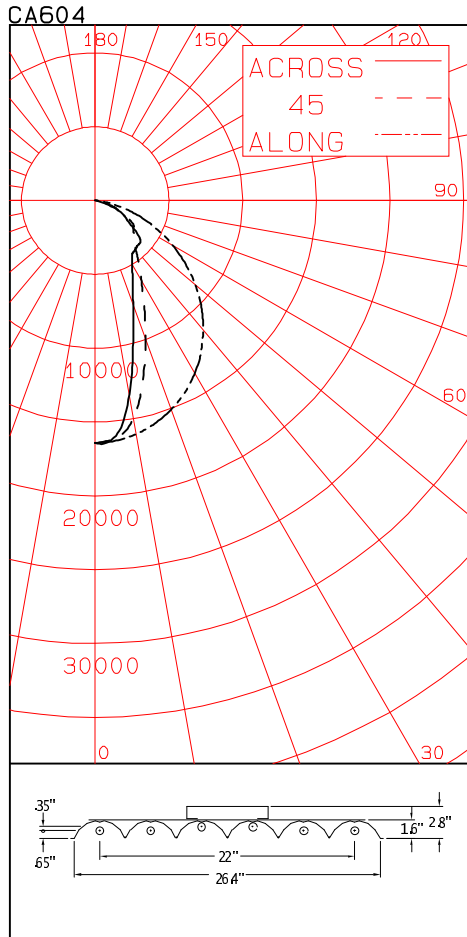


LIGHTING SCIENCES CANADA LTD.

440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9
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CERTIFIED TEST REPORT NO. LSC A604
 COMPUTED BY LSC PROGRAM **TEST-LITE**

CUSTOM LIGHTING T5 6L SURFACE MOUNT 4' FIXTURE CAT. NO. CL-HI-5-HO-2 (6 LAMP)
 WITH SPECULAR REFLECTOR
 SIX 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4400 LMS.
 ADVANCE CENTIUM 120-277V 3 OR 4-LAMP ELECTRONIC BALLAST NO. ICN-4S54-90C-2LS-WL
 ADVANCE CENTIUM 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. ICN-2S54



CANDLEPOWER SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	16411	16411	16411	16411	16411	
5	16320	16286	16156	15919	15992	1517
10	16057	15909	14959	13682	13323	
15	15624	15055	12537	10496	9942	3538
20	15069	13649	9956	8023	7521	
25	14365	11866	7890	6339	6017	4166
30	13509	9943	6296	5258	5011	
35	12532	8121	5155	4497	4399	4117
40	11413	6469	4240	4300	4290	
45	10199	5036	3655	4003	4184	3864
50	8869	3926	3416	3939	3927	
55	7492	3003	3191	3336	3030	3287
60	6078	2281	2777	2394	2413	
65	4665	1865	1920	1958	1938	2240
70	3295	1526	1446	1283	1174	
75	1962	945	797	527	419	933
80	803	436	127	2	0	
85	42	0	0	0	0	56
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	9221	34.93	38.88
0-40	13338	50.52	56.24
0-60	20490	77.61	86.39
0-90	23718	89.84	100.00
40-90	10379	39.32	43.76
60-90	3228	12.23	13.61
90-180	0	.00	.00
0-180	23718	89.84	100.00

** EFFICIENCY = 89.8% **

LUMINANCE SUMMARY-CD. / SQ. M.

ANGLE	ALONG	45	ACROSS
45	17884	6496	7622
55	15964	6921	6804
65	13178	5554	5908
75	8604	3621	2087
85	442	0	0

S/MH = .6
 SC (ALONG) = 1.2, SC (ACROSS) = .6

CERTIFIED BY: *Charles Sisson* DATE: FEB 28, 2005
 PREPARED FOR: CUSTOM LIGHTING LTD.
 EDMONTON, ALBERTA

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

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CANDLEPOWER DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	16411	16411	16411	16411	16411	16411	
2.5	16381	16357	16320	16269	16436	16339	
5.0	16320	16286	16156	15919	15992	16129	1517
7.5	16214	16144	15739	15078	14965	15638	
10.0	16057	15909	14959	13682	13323	14810	
12.5	15861	15564	13873	12072	11578	13807	
15.0	15624	15055	12537	10496	9942	12717	3538
17.5	15368	14428	11227	9163	8644	11706	
20.0	15069	13649	9956	8023	7521	10731	
22.5	14743	12802	8849	7065	6674	9856	
25.0	14365	11866	7890	6339	6017	9072	4166
27.5	13944	10868	7003	5750	5468	8332	
30.0	13509	9943	6296	5258	5011	7689	
32.5	13035	9006	5671	4802	4646	7080	
35.0	12532	8121	5155	4497	4399	6560	4117
37.5	11970	7243	4655	4317	4328	6091	
40.0	11413	6469	4240	4300	4290	5715	
42.5	10806	5708	3902	4152	4199	5316	
45.0	10199	5036	3655	4003	4184	4971	3864
47.5	9548	4456	3541	3984	4169	4710	
50.0	8869	3926	3416	3939	3927	4420	
52.5	8200	3456	3268	3717	3540	4078	
55.0	7492	3003	3191	3336	3030	3698	3287
57.5	6811	2589	3078	2777	2658	3295	
60.0	6078	2281	2777	2394	2413	2924	
62.5	5371	2048	2345	2177	2204	2589	
65.0	4665	1865	1920	1958	1938	2261	2240
67.5	3987	1685	1661	1678	1573	1951	
70.0	3295	1526	1446	1283	1174	1622	
72.5	2600	1271	1160	887	780	1252	
75.0	1962	945	797	527	419	865	933
77.5	1342	680	447	173	111	507	
80.0	803	436	127	2	0	242	
82.5	327	157	0	0	0	80	
85.0	42	0	0	0	0	5	56
87.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)				ACROSS
		22.5	45	67.5		
0	21060 (6146)	21060 (6146)	21060 (6146)	21060 (6146)	21060 (6146)	21060 (6146)
30	19622 (5726)	14504 (4233)	9222 (2691)	7750 (2261)	7425 (2167)	7425 (2167)
40	18574 (5421)	10578 (3087)	6965 (2032)	7142 (2084)	7187 (2097)	7187 (2097)
45	17884 (5219)	8864 (2587)	6496 (1896)	7189 (2098)	7622 (2224)	7622 (2224)
50	16998 (4961)	7574 (2210)	6626 (1934)	7760 (2265)	7840 (2288)	7840 (2288)
55	15964 (4659)	6433 (1877)	6921 (2020)	7345 (2143)	6804 (1985)	6804 (1985)
60	14709 (4293)	5561 (1623)	6842 (1996)	6020 (1757)	6192 (1807)	6192 (1807)
65	13178 (3846)	5300 (1546)	5554 (1621)	5798 (1692)	5908 (1724)	5908 (1724)
70	11279 (3292)	5275 (1539)	5095 (1487)	4652 (1357)	4405 (1285)	4405 (1285)
75	8604 (2511)	4196 (1224)	3621 (1056)	2496 (728)	2087 (609)	2087 (609)
80	4950 (1444)	2730 (797)	828 (241)	16 (4)	0 (0)	0 (0)
85	442 (129)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

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	1.07	1.07	1.07	1.07	1.04	1.04	1.04	1.04	1.00	1.00	1.00	.96	.96	.96	.92	.92	.92	.90			
1	1.00	.97	.94	.91	.98	.95	.92	.89	.91	.89	.87	.87	.86	.84	.84	.83	.81	.80			
2	.93	.87	.82	.77	.91	.85	.80	.77	.82	.78	.75	.79	.76	.73	.77	.74	.72	.70			
3	.86	.78	.72	.67	.84	.77	.71	.67	.74	.69	.66	.72	.68	.64	.70	.66	.63	.62			
4	.80	.70	.64	.59	.78	.69	.63	.58	.67	.62	.58	.65	.61	.57	.63	.59	.56	.54			
5	.74	.64	.56	.51	.72	.62	.56	.51	.61	.55	.50	.59	.54	.50	.57	.53	.49	.48			
6	.68	.58	.51	.46	.67	.57	.50	.45	.55	.49	.45	.54	.49	.45	.53	.48	.44	.43			
7	.63	.53	.46	.41	.62	.52	.45	.40	.51	.44	.40	.49	.44	.40	.48	.43	.40	.38			
8	.59	.48	.41	.36	.58	.47	.41	.36	.46	.40	.36	.45	.40	.35	.44	.39	.35	.34			
9	.55	.44	.37	.32	.54	.43	.37	.32	.42	.36	.32	.41	.36	.32	.40	.35	.31	.30			
10	.51	.40	.33	.29	.50	.40	.33	.29	.39	.33	.29	.38	.32	.29	.37	.32	.28	.27			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 360.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.