

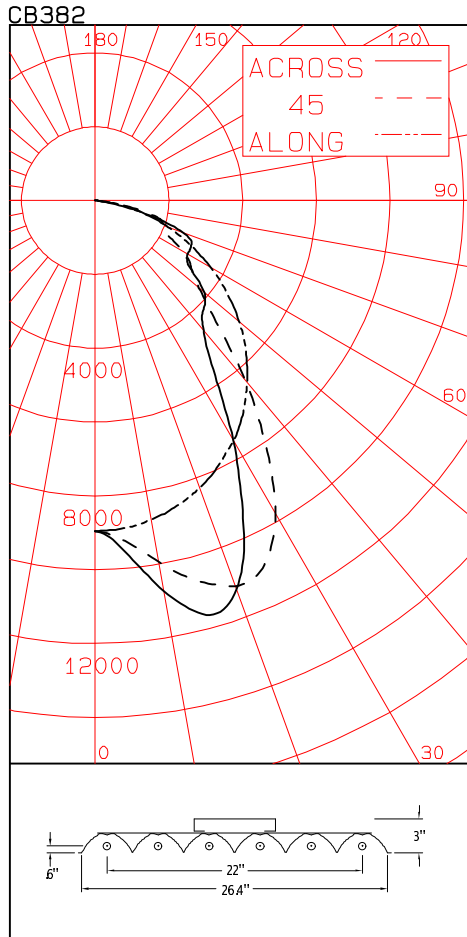


# LIGHTING SCIENCES CANADA LTD.

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 B382  
 COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

CUSTOM LIGHTING 4' FLUORESCENT FIXTURE CAT. NO. CL-HI5HO-GLV-M-6-120  
 WITH MIRO IV SPECULAR REFLECTORS  
 SIX 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4450 LMS.  
 ONE ADVANCE 120-277V 1 TO 4-LAMP ELECTRONIC BALLAST NO. ICN-4S54-90C-2LS-G  
 ONE ADVANCE 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. ICN-2S54-90C



### CANDLEPOWER SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	8951	8951	8951	8951	8951	
5	8915	9076	9265	9460	9570	919
10	8771	9221	9941	10521	10755	
15	8560	9441	10658	11376	11618	2927
20	8282	9625	11113	11358	11211	
25	7923	9687	10879	10096	9499	4479
30	7505	9607	9810	8126	7510	
35	7002	9347	8072	6204	5590	4672
40	6417	8659	6326	4855	4583	
45	5785	7570	4643	4125	4165	4133
50	5088	6037	3679	3897	3866	
55	4357	4498	3175	3304	3107	3301
60	3617	3053	2775	2694	2897	
65	2846	2067	2109	2658	2880	2436
70	2109	1537	1956	2493	2527	
75	1376	1038	1732	1645	1510	1509
80	703	794	852	601	467	
85	87	171	53	0	0	200
90	0	0	0	0	0	

### ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	8325	31.18	33.87
0-40	12997	48.68	52.89
0-60	20431	76.52	83.13
0-90	24577	92.05	100.00
40-90	11579	43.37	47.11
60-90	4145	15.53	16.87
90-180	0	.00	.00
0-180	24577	92.05	100.00

\*\* EFFICIENCY = 92.0% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.2  
 SC = 1.2

ANGLE	ALONG	45	ACROSS
45	10498	8459	7587
55	9748	7131	6977
65	8641	6425	8779
75	6824	8595	7515
85	1280	777	0

CERTIFIED BY:

*Charles Sisson*

DATE:  
 OCT 6, 2006

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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 ONE ADVANCE 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. ICN-2S54-90C

CANDLEPOWER DATA  
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	8951	8951	8951	8951	8951	8951	
2.5	8942	9005	9049	9076	9136	9043	
5.0	8915	9076	9265	9460	9570	9261	919
7.5	8858	9138	9561	9957	10136	9538	
10.0	8771	9221	9941	10521	10755	9862	
12.5	8686	9325	10330	10984	11250	10152	
15.0	8560	9441	10658	11376	11618	10391	2927
17.5	8440	9520	10918	11558	11606	10505	
20.0	8282	9625	11113	11358	11211	10460	
22.5	8122	9669	11125	10868	10500	10243	
25.0	7923	9687	10879	10096	9499	9843	4479
27.5	7704	9660	10416	9053	8467	9304	
30.0	7505	9607	9810	8126	7510	8763	
32.5	7269	9507	8951	7161	6461	8121	
35.0	7002	9347	8072	6204	5590	7480	4672
37.5	6707	9056	7184	5382	4966	6864	
40.0	6417	8659	6326	4855	4583	6335	
42.5	6102	8142	5397	4417	4291	5788	
45.0	5785	7570	4643	4125	4165	5328	4133
47.5	5463	6892	4100	4021	4052	4943	
50.0	5088	6037	3679	3897	3866	4522	
52.5	4743	5274	3379	3656	3496	4107	
55.0	4357	4498	3175	3304	3107	3677	3301
57.5	4004	3783	3028	2867	2949	3289	
60.0	3617	3053	2775	2694	2897	2945	
62.5	3235	2499	2410	2656	2897	2658	
65.0	2846	2067	2109	2658	2880	2424	2436
67.5	2470	1758	1991	2646	2813	2259	
70.0	2109	1537	1956	2493	2527	2076	
72.5	1738	1310	1916	2128	2057	1813	
75.0	1376	1038	1732	1645	1510	1464	1509
77.5	1020	877	1310	1089	972	1068	
80.0	703	794	852	601	467	708	
82.5	360	557	342	141	115	319	
85.0	87	171	53	0	0	67	200
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	11487( 3352)	11487( 3352)	11487( 3352)	11487( 3352)	11487( 3352)
30	11121( 3246)	14275( 4166)	14574( 4253)	12070( 3523)	11128( 3248)
40	10749( 3137)	14544( 4244)	10607( 3095)	8155( 2380)	7678( 2241)
45	10498( 3064)	13756( 4015)	8459( 2469)	7509( 2191)	7587( 2214)
50	10158( 2964)	12098( 3531)	7345( 2143)	7800( 2276)	7718( 2252)
55	9748( 2845)	10081( 2942)	7131( 2081)	7414( 2163)	6977( 2036)
60	9284( 2709)	7862( 2294)	7129( 2080)	6932( 2023)	7436( 2170)
65	8641( 2522)	6282( 1833)	6425( 1875)	8098( 2363)	8779( 2562)
70	7912( 2309)	5786( 1689)	7359( 2147)	9375( 2736)	9483( 2767)
75	6824( 1991)	5168( 1508)	8595( 2508)	8182( 2388)	7515( 2193)
80	5194( 1516)	5886( 1718)	6322( 1845)	4449( 1298)	3448( 1006)
85	1280( 373)	2533( 739)	777( 226)	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	1.10	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	1.02	.98	.95	.92	.99	.96	.93	.90	.92	.89	.87	.88	.86	.85	.85	.84	.82	.80			
2	.94	.87	.82	.77	.91	.85	.80	.76	.82	.78	.74	.79	.76	.73	.77	.74	.71	.69			
3	.86	.78	.71	.66	.84	.76	.70	.65	.74	.69	.64	.71	.67	.63	.69	.65	.62	.60			
4	.80	.70	.63	.57	.78	.69	.62	.57	.66	.61	.56	.64	.59	.55	.62	.58	.54	.53			
5	.73	.63	.55	.49	.71	.61	.54	.49	.59	.53	.48	.58	.52	.48	.56	.51	.47	.46			
6	.68	.56	.49	.43	.66	.56	.48	.43	.54	.48	.43	.52	.47	.42	.51	.46	.42	.40			
7	.63	.51	.44	.38	.61	.50	.43	.38	.49	.42	.38	.48	.42	.37	.47	.41	.37	.35			
8	.58	.46	.39	.34	.57	.45	.38	.33	.44	.38	.33	.43	.37	.33	.42	.37	.33	.31			
9	.54	.42	.34	.29	.52	.41	.34	.29	.40	.34	.29	.39	.33	.29	.38	.33	.29	.27			
10	.50	.38	.31	.26	.49	.38	.31	.26	.37	.30	.26	.36	.30	.26	.35	.30	.26	.24			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 358.0  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.