

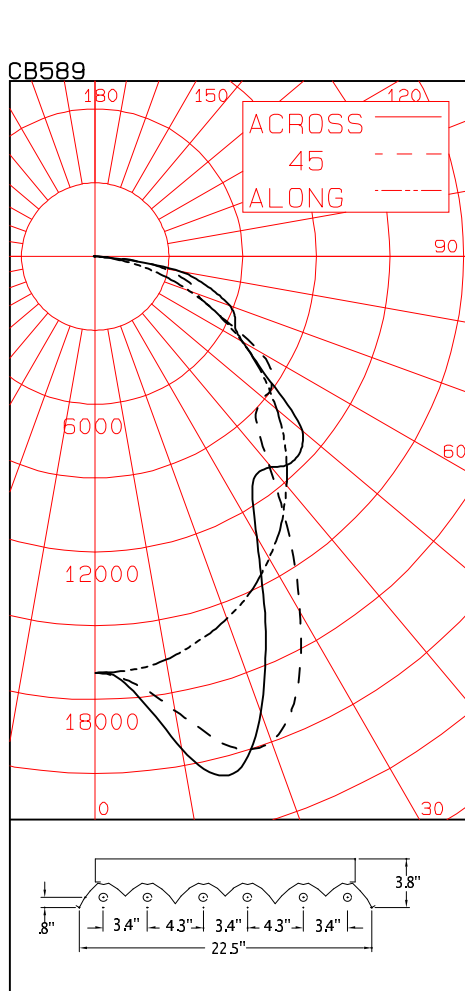


LIGHTING SCIENCES CANADA LTD.

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 B589
 COMPUTED BY LSC PROGRAM **TEST-LITE**

CUSTOM LIGHTING 8' FLUOR. FIXTURE CAT. NO. CL-HI5HO-(OE)PF-M-8ft-6L Profile
 WITH SPECULAR SEGMENTED REFLECTORS
 TWELVE 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4450 LMS.
 THREE SYLVANIA 120-277V 1 TO 4-LAMP ELEC. BALLASTS NO. QTP4x54T5HO/UNV PSN HT W



CANDLEPOWER SUMMARY						OUTPUT LUMENS
ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	16914	16914	16914	16914	16914	
5	16857	17041	17375	17651	17727	1725
10	16623	17259	18742	19924	20335	
15	16185	17624	20542	21611	21749	5497
20	15662	18021	20976	20211	19710	
25	15009	18417	19461	17184	16391	8074
30	14157	18337	16690	13957	13135	
35	13224	17527	13743	11515	11197	8629
40	12125	15751	10961	10816	11179	
45	10930	13365	9245	11066	11573	8662
50	9637	10658	8925	10821	10994	
55	8275	7936	8767	9027	8513	7630
60	6897	5844	7750	6926	6937	
65	5475	4941	5502	5856	6272	5599
70	4066	4398	4351	5517	5829	
75	2731	2949	3906	4551	4758	3972
80	1469	1843	2882	3394	3530	
85	387	1177	1193	1013	970	1215
90	0	29	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	15295	28.64	29.99
0-40	23924	44.80	46.91
0-60	40216	75.31	78.85
0-90	51002	95.51	100.00
40-90	27077	50.71	53.09
60-90	10785	20.20	21.15
90-180	0	.00	.00
0-180	51002	95.51	100.00

** EFFICIENCY = 95.5% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.2
 SC = 1.2

ANGLE	ALONG	45	ACROSS
45	11340	9685	12302
55	10493	11252	11155
65	9289	9484	11154
75	7335	10728	13819
85	2691	8802	8368

CERTIFIED BY:

Charles Sisson

DATE:
 FEB 23, 2007

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	16914	16914	16914	16914	16914	16914	
2.5	16901	16972	17044	17070	17021	17012	
5.0	16857	17041	17375	17651	17727	17340	1725
7.5	16783	17117	17929	18650	18853	17879	
10.0	16623	17259	18742	19924	20335	18601	
12.5	16418	17433	19639	21014	21455	19256	
15.0	16185	17624	20542	21611	21749	19686	5497
17.5	15951	17840	20994	21270	21043	19650	
20.0	15662	18021	20976	20211	19710	19223	
22.5	15348	18243	20418	18777	18065	18536	
25.0	15009	18417	19461	17184	16391	17690	8074
27.5	14598	18457	18141	15559	14640	16694	
30.0	14157	18337	16690	13957	13135	15657	
32.5	13701	18036	15228	12472	11951	14641	
35.0	13224	17527	13743	11515	11197	13749	8629
37.5	12673	16716	12276	10994	11001	12956	
40.0	12125	15751	10961	10816	11179	12295	
42.5	11549	14624	9935	10881	11511	11743	
45.0	10930	13365	9245	11066	11573	11232	8662
47.5	10331	12016	8989	10974	11424	10714	
50.0	9637	10658	8925	10821	10994	10180	
52.5	8962	9274	8980	10336	9886	9504	
55.0	8275	7936	8767	9027	8513	8531	7630
57.5	7600	6801	8468	7736	7658	7659	
60.0	6897	5844	7750	6926	6937	6859	
62.5	6209	5279	6579	6203	6452	6098	
65.0	5475	4941	5502	5856	6272	5543	5599
67.5	4789	4736	4801	5713	6132	5178	
70.0	4066	4398	4351	5517	5829	4803	
72.5	3372	3877	4175	5083	5310	4369	
75.0	2731	2949	3906	4551	4758	3788	3972
77.5	2074	2219	3387	3995	4213	3186	
80.0	1469	1843	2882	3394	3530	2655	
82.5	877	1556	2270	2295	2263	1923	
85.0	387	1177	1193	1013	970	1015	1215
87.5	29	454	176	138	82	206	
90.0	0	29	0	0	0	7	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			ACROSS
		22.5	45	67.5	
0	12664 (3696)	12664 (3696)	12664 (3696)	12664 (3696)	12664 (3696)
30	12096 (3530)	15725 (4589)	14346 (4187)	12041 (3514)	11357 (3314)
40	11650 (3400)	15192 (4434)	10594 (3092)	10531 (3073)	10927 (3189)
45	11340 (3309)	13904 (4058)	9685 (2826)	11660 (3403)	12302 (3590)
50	10956 (3197)	12184 (3556)	10220 (2982)	12521 (3654)	12807 (3738)
55	10493 (3062)	10103 (2948)	11252 (3284)	11687 (3411)	11155 (3256)
60	9972 (2910)	8500 (2481)	11330 (3306)	10258 (2994)	10389 (3032)
65	9289 (2711)	8417 (2456)	9484 (2768)	10233 (2986)	11154 (3255)
70	8424 (2458)	9179 (2679)	9183 (2680)	11847 (3457)	12761 (3724)
75	7335 (2140)	7992 (2332)	10728 (3131)	12833 (3745)	13819 (4033)
80	5670 (1654)	7195 (2100)	11518 (3361)	14026 (4093)	15221 (4442)
85	2691 (785)	8327 (2430)	8802 (2569)	8005 (2336)	8368 (2442)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC	80				70				50				30				10				0
WALL	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	1.14	1.14	1.14	1.14	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.97	.97	.97	.97	.97	.97	.96
1	1.04	1.00	.96	.93	1.02	.98	.95	.91	.94	.91	.88	.90	.88	.86	.87	.85	.83	.87	.85	.83	.81
2	.96	.88	.82	.77	.93	.86	.81	.76	.83	.78	.74	.80	.76	.72	.77	.74	.71	.77	.74	.71	.69
3	.88	.78	.71	.65	.85	.77	.70	.64	.74	.68	.63	.71	.66	.62	.69	.65	.61	.69	.65	.61	.59
4	.81	.70	.62	.56	.79	.69	.61	.55	.66	.60	.55	.64	.58	.54	.62	.57	.53	.62	.57	.53	.51
5	.74	.62	.54	.48	.72	.61	.53	.47	.59	.52	.47	.57	.51	.46	.55	.50	.46	.55	.50	.46	.44
6	.68	.56	.47	.42	.66	.55	.47	.41	.53	.46	.41	.52	.45	.41	.50	.44	.40	.50	.44	.40	.38
7	.63	.50	.42	.37	.62	.50	.42	.36	.48	.41	.36	.47	.40	.36	.46	.40	.35	.46	.40	.35	.34
8	.58	.45	.37	.32	.57	.45	.37	.32	.43	.36	.31	.42	.36	.31	.41	.35	.31	.41	.35	.31	.29
9	.54	.41	.33	.28	.52	.40	.33	.28	.39	.32	.27	.38	.32	.27	.37	.31	.27	.37	.31	.27	.25
10	.50	.37	.29	.24	.49	.37	.29	.24	.36	.29	.24	.35	.28	.24	.34	.28	.24	.34	.28	.24	.22

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 720.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.