

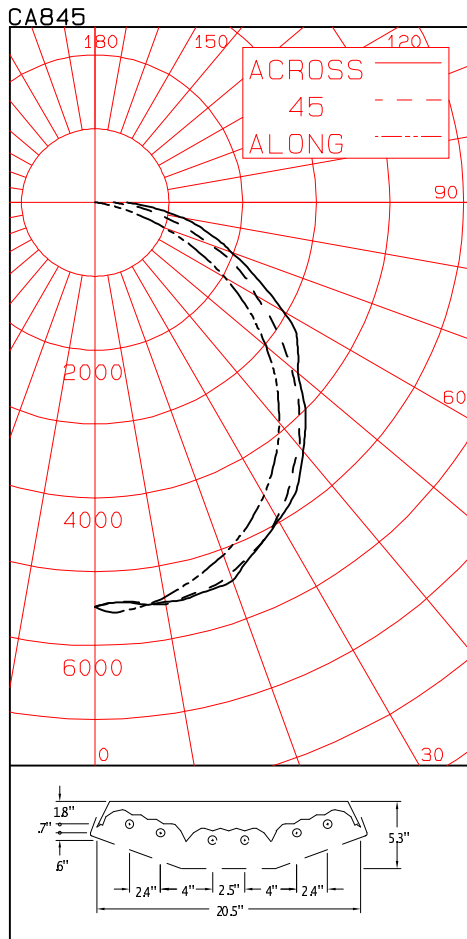


LIGHTING SCIENCES CANADA LTD.

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 A845
 COMPUTED BY LSC PROGRAM **TEST-LITE**

CUSTOM LIGHTING SURFACE MOUNT FIXTURE CAT. NO. CL-GYM-T5HO-6L-L
 WITH SPECULAR REFLECTOR AND CLEAR LENS
 SIX 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4400 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	5478	5478	5478	5478	5478	
0	5478	5478	5478	5478	5478	5478	5478	5478	5478	5478	
5	5530	5503	5428	5431	5440	531					
10	5430	5463	5524	5468	5491						
15	5266	5335	5453	5480	5484	1529					
20	5081	5214	5357	5430	5450						
25	4855	4983	5172	5206	5184	2349					
30	4584	4800	4932	4960	4972						
35	4256	4515	4628	4734	4760	2863					
40	3885	4113	4317	4405	4395						
45	3487	3741	3917	3993	4041	2962					
50	3028	3298	3467	3552	3591						
55	2547	2807	3006	3215	3350	2671					
60	2029	2287	2517	2903	2950						
65	1507	1767	2160	2357	2423	2045					
70	1005	1270	1656	1897	1971						
75	550	837	1224	1501	1580	1230					
80	200	470	841	1127	1214						
85	25	202	508	718	792	513					
90	0	48	249	365	429						

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	4407	16.70	26.40
0-40	7270	27.54	43.55
0-60	12904	48.88	77.30
0-90	16693	63.23	100.00
40-90	9422	35.69	56.45
60-90	3788	14.35	22.70
90-180	0	.00	.00
0-180	16693	63.23	100.00

** EFFICIENCY = 63.2% **

LUMINANCE SUMMARY-CD. / SQ. M.

ANGLE	ALONG	45	ACROSS
45	7768	8355	8458
55	6994	7751	8415
65	5618	7322	7908
75	3349	6317	7691
85	444	5927	8074

S/MH = 1.3

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

CERTIFIED BY:

Charles Sisson

DATE:
AUG 24, 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	5478	5478	5478	5478	5478	5478	
2.5	5557	5495	5423	5393	5425	5450	
5.0	5530	5503	5428	5431	5440	5462	531
7.5	5492	5485	5478	5481	5493	5484	
10.0	5430	5463	5524	5468	5491	5479	
12.5	5346	5409	5486	5504	5510	5457	
15.0	5266	5335	5453	5480	5484	5411	1529
17.5	5169	5298	5433	5449	5474	5376	
20.0	5081	5214	5357	5430	5450	5317	
22.5	4972	5101	5266	5333	5300	5209	
25.0	4855	4983	5172	5206	5184	5095	2349
27.5	4715	4886	5076	5089	5077	4987	
30.0	4584	4800	4932	4960	4972	4868	
32.5	4420	4657	4793	4856	4878	4739	
35.0	4256	4515	4628	4734	4760	4596	2863
37.5	4077	4315	4442	4588	4576	4418	
40.0	3885	4113	4317	4405	4395	4244	
42.5	3683	3952	4089	4228	4216	4055	
45.0	3487	3741	3917	3993	4041	3854	2962
47.5	3260	3523	3688	3806	3813	3638	
50.0	3028	3298	3467	3552	3591	3407	
52.5	2782	3059	3240	3336	3477	3191	
55.0	2547	2807	3006	3215	3350	2994	2671
57.5	2295	2594	2762	3082	3219	2799	
60.0	2029	2287	2517	2903	2950	2549	
62.5	1776	2038	2356	2672	2677	2323	
65.0	1507	1767	2160	2357	2423	2063	2045
67.5	1257	1527	1943	2129	2194	1831	
70.0	1005	1270	1656	1897	1971	1578	
72.5	769	1046	1431	1686	1794	1361	
75.0	550	837	1224	1501	1580	1157	1230
77.5	346	655	1020	1322	1424	971	
80.0	200	470	841	1127	1214	786	
82.5	80	306	696	903	980	609	
85.0	25	202	508	718	792	459	513
87.5	0	111	354	513	580	317	
90.0	0	48	249	365	429	219	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M. (FOOTLAMBERTS)			
		22.5	45	67.5	ACROSS
0	8628(2518)	8628(2518)	8628(2518)	8628(2518)	8628(2518)
30	8337(2433)	8625(2517)	8750(2554)	8725(2546)	8700(2539)
40	7988(2331)	8298(2422)	8540(2492)	8626(2517)	8546(2494)
45	7768(2267)	8131(2373)	8355(2438)	8390(2449)	8458(2468)
50	7420(2165)	7867(2296)	8035(2345)	8118(2369)	8137(2375)
55	6994(2041)	7443(2172)	7751(2262)	8125(2371)	8415(2456)
60	6391(1865)	6917(2018)	7325(2138)	8266(2412)	8309(2425)
65	5618(1639)	6243(1822)	7322(2137)	7763(2265)	7908(2308)
70	4629(1351)	5478(1598)	6754(1971)	7462(2178)	7644(2231)
75	3349(977)	4658(1359)	6317(1843)	7421(2166)	7691(2244)
80	1815(529)	3726(1087)	6010(1754)	7541(2201)	7938(2317)
85	444(129)	2821(823)	5927(1730)	7567(2208)	8074(2356)

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	.75	.75	.75	.75	.74	.74	.74	.74	.70	.70	.70	.67	.67	.67	.65	.65	.65	.63			
1	.69	.66	.63	.61	.67	.65	.62	.60	.62	.60	.58	.59	.58	.56	.57	.56	.55	.53			
2	.63	.58	.54	.50	.61	.57	.53	.49	.54	.51	.48	.52	.50	.47	.50	.48	.46	.45			
3	.57	.51	.46	.42	.56	.50	.45	.42	.48	.44	.41	.47	.43	.40	.45	.42	.40	.38			
4	.53	.45	.40	.36	.51	.45	.40	.36	.43	.39	.35	.42	.38	.35	.40	.37	.34	.33			
5	.48	.40	.34	.30	.47	.39	.34	.30	.38	.33	.30	.37	.33	.29	.36	.32	.29	.28			
6	.44	.36	.30	.26	.43	.35	.30	.26	.34	.29	.26	.33	.29	.26	.32	.28	.25	.24			
7	.41	.32	.27	.23	.40	.32	.26	.23	.31	.26	.23	.30	.25	.22	.29	.25	.22	.21			
8	.38	.29	.23	.20	.37	.28	.23	.20	.28	.23	.19	.27	.22	.19	.26	.22	.19	.18			
9	.35	.26	.21	.17	.34	.26	.20	.17	.25	.20	.17	.24	.20	.17	.23	.19	.16	.15			
10	.32	.24	.18	.15	.31	.23	.18	.15	.23	.18	.15	.22	.18	.15	.21	.17	.15	.13			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 306.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.