

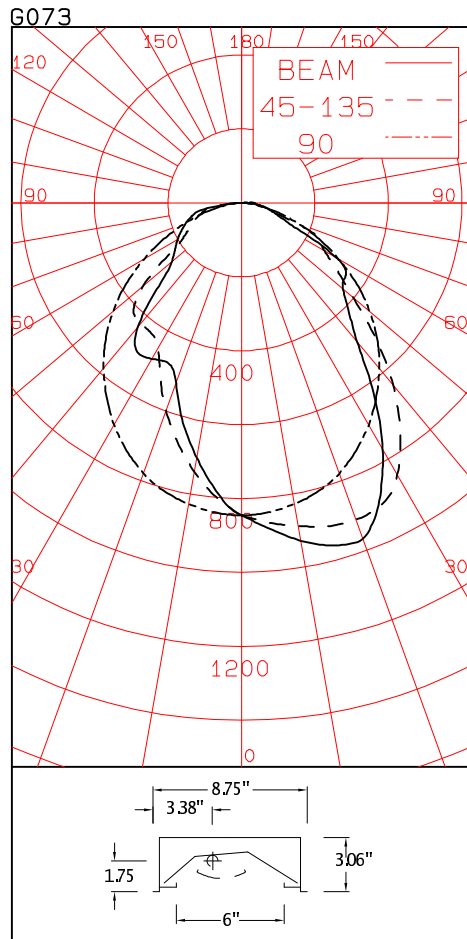


LIGHTING SCIENCES CANADA LTD.

160 Frobisher Drive, Unit 5, Waterloo, Ontario, Canada N2V 2B1
 Tel: (519) 746-3140 Fax: (519) 746-3156 lsc@lightingsciences.ca

CERTIFIED TEST REPORT NO. LSC G073
 COMPUTED BY LSC PROGRAM **TEST-LITE**

AMICO SOLAR SERIES RECESSED FLUORESCENT DUO EXAM LIGHT CAT. NO. L-SDE-120-1
 WITH SEMI-SPECULAR REFLECTOR, WHITE PERFORATED BASKET WITH PEARLESCENT DIFFUSER
 ONE 54W T5 HO 4100K FLUORESCENT LAMP. LUMEN RATING = 4450 LMS.
 ONE PHILIPS ADVANCE CENTIUM 120-277V 1/2-LAMP ELECT. BALLAST CAT. NO. ICN-2S54



CANDLEPOWER SUMMARY

ANGLE	BEAM SIDE				BEAM	OUTPUT LUMENS
	90	67.5	45	22.5		
0	846	846	846	846	846	
5	840	855	868	881	886	42
10	827	858	888	915	928	
15	808	855	906	944	960	127
20	779	846	912	954	967	
25	740	827	901	900	888	197
30	694	800	849	795	769	
35	641	762	753	666	627	219
40	584	710	643	527	490	
45	523	638	517	423	413	197
50	456	545	396	361	361	
55	384	447	319	327	346	163
60	307	338	262	307	302	
65	233	228	232	202	167	108
70	165	151	157	113	110	
75	106	101	77	82	83	48
80	56	43	53	60	62	
85	17	22	38	36	34	15
90	0	0	0	0	0	

BOTH SIDES ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	629	14.14	32.04
0-40	1002	22.52	51.02
0-60	1626	36.56	82.83
0-90	1964	44.14	100.00
40-90	961	21.62	48.98
60-90	337	7.58	17.17
90-180	0	.00	.00
0-180	1964	44.14	100.00

** EFFICIENCY = 44.1% **

LUMINANCE SUMMARY-CD. / SQ. M.

ANGLE	BEAM SIDE		
	90	45	BEAM SIDE
45	4246	4211	3367
55	3843	3204	3473
65	3165	3163	2281
75	2351	1704	1852
85	1119	2503	2261

CERTIFIED BY:

Charles Sison

DATE:
AUG 30, 2012

PREPARED FOR:

AMICO LIGHTS CORP.
 RICHMOND HILL, ONTARIO

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

LIGHTING SCIENCES CANADA LTD.
 160 FROBISHER DRIVE, UNIT 5
 WATERLOO, ONTARIO

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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	.53	.53	.53	.53	.51	.51	.51	.51	.49	.49	.49	.47	.47	.47	.45	.45	.45	.44			
1	.49	.47	.45	.44	.47	.46	.44	.43	.44	.43	.42	.42	.41	.40	.41	.40	.39	.38			
2	.45	.42	.39	.37	.44	.41	.38	.36	.39	.37	.35	.38	.36	.35	.37	.35	.34	.33			
3	.41	.37	.34	.31	.40	.36	.33	.31	.35	.33	.31	.34	.32	.30	.33	.31	.30	.29			
4	.38	.33	.30	.27	.37	.33	.30	.27	.32	.29	.27	.31	.28	.26	.30	.28	.26	.25			
5	.35	.30	.26	.23	.34	.29	.26	.23	.28	.25	.23	.27	.25	.23	.27	.24	.22	.22			
6	.32	.27	.23	.20	.31	.26	.23	.20	.26	.22	.20	.25	.22	.20	.24	.22	.20	.19			
7	.30	.24	.21	.18	.29	.24	.20	.18	.23	.20	.18	.23	.20	.18	.22	.19	.17	.17			
8	.28	.22	.18	.16	.27	.21	.18	.16	.21	.18	.16	.20	.18	.15	.20	.17	.15	.15			
9	.25	.20	.16	.14	.25	.19	.16	.14	.19	.16	.14	.18	.16	.13	.18	.15	.13	.13			
10	.24	.18	.14	.12	.23	.18	.14	.12	.17	.14	.12	.17	.14	.12	.16	.14	.12	.11			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 59.2
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.

LIGHTING SCIENCES CANADA LTD.
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BEAM SIDE
 CANDLEPOWER DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE				BEAM SIDE	AVERAGE	OUTPUT LUMENS
	90	67.5	45	22.5			
.0	846	846	846	846	846	846	
2.5	844	851	856	863	864	856	
5.0	840	855	868	881	886	867	42
7.5	835	857	878	898	907	876	
10.0	827	858	888	915	928	885	
12.5	819	857	898	931	946	892	
15.0	808	855	906	944	960	897	127
17.5	795	851	911	952	968	899	
20.0	779	846	912	954	967	896	
22.5	760	838	910	940	937	884	
25.0	740	827	901	900	888	861	197
27.5	717	814	885	851	831	831	
30.0	694	800	849	795	769	794	
32.5	668	782	804	734	701	751	
35.0	641	762	753	666	627	704	219
37.5	612	737	700	594	555	653	
40.0	584	710	643	527	490	604	
42.5	554	679	582	465	447	556	
45.0	523	638	517	423	413	512	197
47.5	490	592	453	390	384	468	
50.0	456	545	396	361	361	428	
52.5	421	496	353	339	349	393	
55.0	384	447	319	327	346	364	163
57.5	346	395	287	321	336	336	
60.0	307	338	262	307	302	303	
62.5	269	281	245	268	236	262	
65.0	233	228	232	202	167	216	108
67.5	198	185	209	142	133	175	
70.0	165	151	157	113	110	139	
72.5	135	120	101	94	96	108	
75.0	106	101	77	82	83	89	48
77.5	80	83	64	70	71	73	
80.0	56	43	53	60	62	54	
82.5	34	29	44	54	51	42	
85.0	17	22	38	36	34	30	15
87.5	6	14	13	8	6	10	
90.0	0	0	0	0	0	0	

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BEAM SIDE
 AVERAGE LUMINANCE DATA

ANGLE	CD. / SQ. M. (FOOTLAMBERTS)					BEAM SIDE
	90	67.5	45	22.5		
0	4856 (1417)	4856 (1417)	4856 (1417)	4856 (1417)	4856 (1417)	4856 (1417)
30	4600 (1342)	5315 (1551)	5640 (1646)	5283 (1541)	5098 (1488)	5098 (1488)
40	4376 (1277)	5334 (1557)	4826 (1408)	3959 (1155)	3671 (1071)	3671 (1071)
45	4246 (1239)	5185 (1513)	4211 (1229)	3447 (1006)	3367 (982)	3367 (982)
50	4072 (1188)	4881 (1424)	3534 (1031)	3237 (944)	3228 (942)	3228 (942)
55	3843 (1121)	4477 (1306)	3204 (935)	3285 (958)	3473 (1013)	3473 (1013)
60	3524 (1028)	3898 (1137)	3006 (877)	3533 (1031)	3470 (1013)	3470 (1013)
65	3165 (923)	3104 (906)	3163 (923)	2746 (801)	2281 (665)	2281 (665)
70	2769 (808)	2538 (740)	2645 (772)	1897 (553)	1846 (538)	1846 (538)
75	2351 (686)	2243 (654)	1704 (497)	1831 (534)	1852 (540)	1852 (540)
80	1851 (540)	1442 (420)	1748 (510)	1989 (580)	2047 (597)	2047 (597)
85	1119 (326)	1466 (428)	2503 (730)	2383 (695)	2261 (660)	2261 (660)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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OPPOSITE SIDE TO BEAM
 CANDLEPOWER DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE				NON- BEAM	AVERAGE	OUTPUT LUMENS
	90	112.5	135	157.5			
.0	846	846	846	846	846	846	
2.5	844	832	823	821	822	827	
5.0	840	819	799	787	783	804	38
7.5	835	803	770	749	742	778	
10.0	827	785	739	710	700	749	
12.5	819	764	705	671	658	720	
15.0	808	740	671	631	615	688	96
17.5	795	714	636	587	568	654	
20.0	779	687	600	540	520	619	
22.5	760	658	562	500	487	586	
25.0	740	629	521	475	477	558	129
27.5	717	598	484	471	480	538	
30.0	694	567	454	474	487	521	
32.5	668	534	436	480	494	508	
35.0	641	500	430	484	494	495	154
37.5	612	463	427	480	477	479	
40.0	584	425	426	458	438	455	
42.5	554	387	424	417	382	424	
45.0	523	354	415	360	318	387	148
47.5	490	324	389	297	272	348	
50.0	456	302	347	254	248	314	
52.5	421	286	293	232	233	284	
55.0	384	272	235	217	221	257	116
57.5	346	258	198	206	211	235	
60.0	307	244	179	196	202	218	
62.5	269	221	165	186	191	201	
65.0	233	184	154	176	181	180	89
67.5	198	140	144	165	171	158	
70.0	165	97	134	155	161	137	
72.5	135	82	124	145	151	123	
75.0	106	73	114	135	140	111	59
77.5	80	67	104	125	129	100	
80.0	56	61	96	110	112	88	
82.5	34	55	80	72	67	65	
85.0	17	42	33	25	21	30	19
87.5	6	4	0	0	0	2	
90.0	0	0	0	0	0	0	

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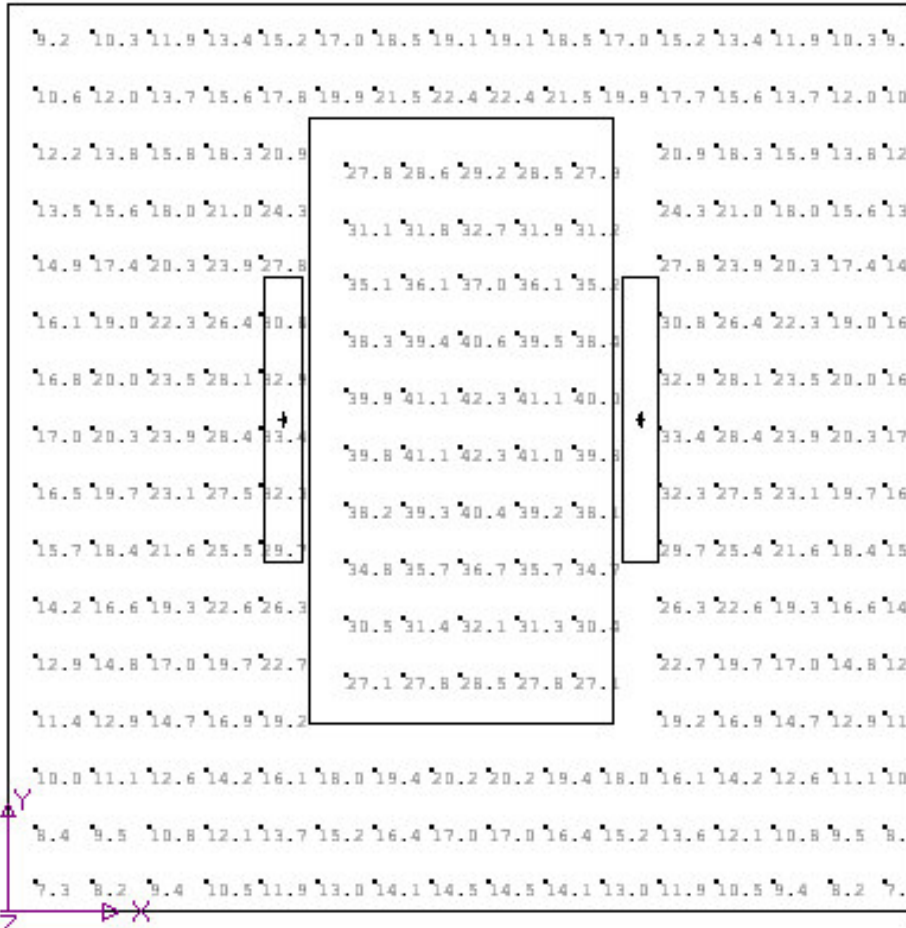
OPPOSITE SIDE TO BEAM
 AVERAGE LUMINANCE DATA

ANGLE	CD. / SQ. M. (FOOTLAMBERTS)					NON-BEAM
	90	112.5	135	157.5		
0	4856 (1417)	4856 (1417)	4856 (1417)	4856 (1417)	4856 (1417)	4856 (1417)
30	4600 (1342)	3767 (1099)	3016 (880)	3151 (919)	3229 (942)	
40	4376 (1277)	3195 (932)	3196 (933)	3438 (1003)	3283 (958)	
45	4246 (1239)	2878 (840)	3382 (987)	2928 (854)	2591 (756)	
50	4072 (1188)	2710 (790)	3096 (903)	2276 (664)	2212 (645)	
55	3843 (1121)	2725 (795)	2359 (688)	2180 (636)	2219 (647)	
60	3524 (1028)	2811 (820)	2061 (601)	2256 (658)	2313 (675)	
65	3165 (923)	2501 (730)	2104 (614)	2393 (698)	2470 (721)	
70	2769 (808)	1635 (477)	2256 (658)	2612 (762)	2700 (788)	
75	2351 (686)	1626 (474)	2525 (737)	3004 (876)	3108 (907)	
80	1851 (540)	2024 (591)	3190 (931)	3642 (1063)	3698 (1079)	
85	1119 (326)	2749 (802)	2197 (641)	1650 (481)	1405 (410)	

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

Luminaire Schedule						
Project: LSC 6073						
Symbol	Qty	Label	Arrangement	Lumens	LLF	Description
	2	A	SINGLE	4450	1.000	T5 Exam Light

Numeric Summary - Basic							
Project: LSC 6073							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Room_Workplane	Illuminance	Fc	17.78	33.4	7.3	2.44	4.58
Table_Top_1	Illuminance	Fc	35.03	42.3	27.1	1.29	1.56



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Prepared For:
 Amico Corporation
 Richmond Hill, Ontario

Prepared By:
 Michelle Lin

Date:
 August 31, 2012

Room: 12' x 12' x 9'
 Table: 4' x 8' x 3'
 Table Head Distance to Wall: 18"
 Fixture Mounting Height: 9'
 Fixture Separation: 4'
 Reflectances: Ceiling 80%,
 Walls 50%,
 Floor 20%
 Grid Spacing: 9" x 9"
 Workplane Height: 36" (3')