



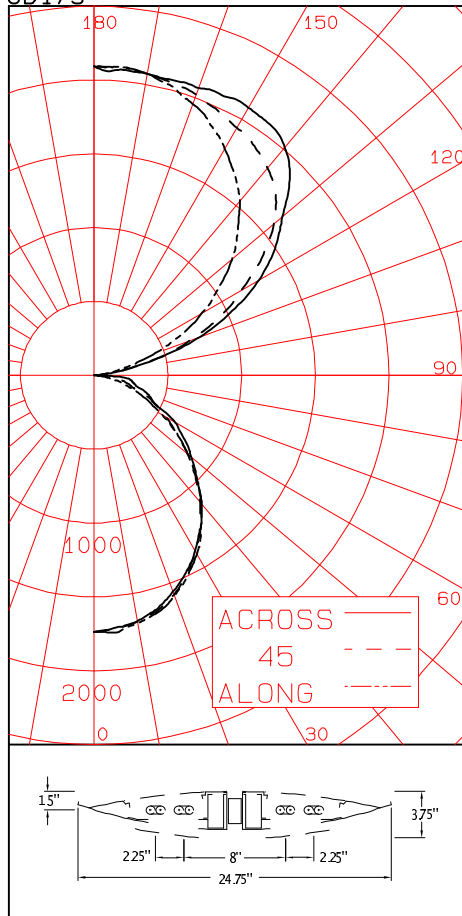
# LIGHTING SCIENCES CANADA LTD.

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 D173  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI SCARAB INDOOR COMPACT FLUORESCENT LUMINAIRE  
SPECULAR SIDE REFLECTORS, TRANSLUCENT DOWNLIGHT LENSES, AND CLEAR UPLIGHT LENSES  
FOUR DULUX L 55W BIAxIAL COMPACT FLUORESCENT LAMPS. LUMEN RATING = 4800 LMS.  
TWO SYLVANIA 120-277V 1 OR 2-LAMP ELECT. BALLASTS NO. QTP 2x54T5HO/UNV PSN HT

CD173



## CANDLEPOWER SUMMARY

## OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	1736	1736	1736	1736	1736	
5	1746	1734	1722	1722	1714	166
15	1663	1664	1650	1637	1639	464
25	1497	1498	1483	1476	1473	682
35	1265	1258	1253	1248	1262	783
45	982	980	972	974	985	752
55	682	672	678	721	741	625
65	400	407	450	460	457	441
75	185	208	249	292	309	267
85	31	63	130	195	224	132
90	4	20	56	66	76	
95	19	28	50	60	68	77
105	247	355	437	463	450	426
115	646	805	939	1018	1033	889
125	1027	1191	1388	1459	1497	1183
135	1376	1495	1742	1852	1877	1288
145	1662	1727	1895	2029	2077	1175
155	1873	1904	1983	2055	2087	914
165	2030	2040	2050	2065	2069	579
175	2098	2097	2091	2073	2079	202
180	2094	2094	2094	2094	2094	

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1311	6.83	11.87
0-40	2094	10.91	18.96
0-60	3471	18.08	31.43
0-90	4312	22.46	39.04
40-90	2217	11.55	20.08
60-90	840	4.38	7.61
90-180	6733	35.07	60.96
0-180	11046	57.53	100.00

\*\* EFFICIENCY = 57.5% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.2  
SC = 1.2

ANGLE	ALONG	45	ACROSS
45	8078	7632	7750
55	6801	6324	6934
65	5261	5378	5475
75	3752	4306	5385
85	1480	4338	7573

CERTIFIED BY:

*Charles Lison*

DATE:  
MAR 31, 2008

PREPARED FOR:

BEGHELLI NORTH AMERICA  
MIRAMAR, FL, USA

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

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CANDLEPOWER DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	1736	1736	1736	1736	1736	1736	
5	1746	1734	1722	1722	1714	1727	166
10	1703	1711	1692	1688	1690	1697	
15	1663	1664	1650	1637	1639	1650	464
20	1588	1591	1580	1561	1560	1577	
25	1497	1498	1483	1476	1473	1485	682
30	1395	1390	1376	1368	1370	1379	
35	1265	1258	1253	1248	1262	1256	783
40	1134	1122	1120	1129	1133	1126	
45	982	980	972	974	985	977	752
50	825	823	826	834	858	831	
55	682	672	678	721	741	696	625
60	534	537	566	606	637	574	
65	400	407	450	460	457	436	441
70	287	308	340	362	396	338	
75	185	208	249	292	309	249	267
80	95	121	186	239	265	181	
85	31	63	130	195	224	129	132
90	4	20	56	66	76	45	
95	19	28	50	60	68	46	77
100	102	163	204	193	186	176	
105	247	355	437	463	450	401	426
110	442	570	693	758	766	656	
115	646	805	939	1018	1033	900	889
120	848	1020	1156	1266	1291	1128	
125	1027	1191	1388	1459	1497	1325	1183
130	1222	1354	1594	1650	1668	1511	
135	1376	1495	1742	1852	1877	1679	1288
140	1536	1620	1832	1975	2014	1800	
145	1662	1727	1895	2029	2077	1880	1175
150	1775	1821	1937	2047	2094	1935	
155	1873	1904	1983	2055	2087	1981	914
160	1957	1983	2025	2059	2071	2020	
165	2030	2040	2050	2065	2069	2051	579
170	2076	2082	2073	2067	2076	2075	
175	2098	2097	2091	2073	2079	2087	202
180	2094	2094	2094	2094	2094	2094	

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AVERAGE LUMINANCE DATA

		CD. / SQ. M.		(FOOTLAMBERTS)			
ANGLE	ALONG	22.5	45	67.5	ACROSS		
0	10521 ( 3070)	10521 ( 3070)	10521 ( 3070)	10521 ( 3070)	10521 ( 3070)		
30	9534 ( 2782)	9356 ( 2730)	9146 ( 2669)	9059 ( 2644)	9095 ( 2654)		
40	8667 ( 2529)	8373 ( 2443)	8209 ( 2396)	8246 ( 2406)	8313 ( 2426)		
45	8078 ( 2357)	7829 ( 2285)	7632 ( 2227)	7594 ( 2216)	7750 ( 2262)		
50	7408 ( 2162)	7153 ( 2087)	6991 ( 2040)	7028 ( 2051)	7282 ( 2125)		
55	6801 ( 1985)	6433 ( 1877)	6324 ( 1845)	6666 ( 1945)	6934 ( 2023)		
60	6040 ( 1762)	5786 ( 1689)	5895 ( 1720)	6259 ( 1826)	6642 ( 1938)		
65	5261 ( 1535)	5040 ( 1471)	5378 ( 1569)	5428 ( 1584)	5475 ( 1598)		
70	4559 ( 1330)	4547 ( 1327)	4789 ( 1397)	5021 ( 1465)	5580 ( 1628)		
75	3752 ( 1095)	3827 ( 1116)	4306 ( 1257)	4965 ( 1449)	5385 ( 1571)		
80	2670 ( 779)	2982 ( 870)	4215 ( 1230)	5294 ( 1545)	6043 ( 1763)		
85	1480 ( 431)	2365 ( 690)	4338 ( 1266)	6284 ( 1834)	7573 ( 2210)		

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	.60	.60	.60	.60	.55	.55	.55	.55	.44	.44	.44	.35	.35	.35	.26	.26	.26	.26	.26	.26	.22
1	.55	.53	.50	.48	.50	.48	.46	.44	.39	.38	.37	.31	.30	.29	.24	.23	.23	.23	.23	.23	.19
2	.50	.46	.43	.40	.46	.42	.39	.37	.35	.33	.31	.28	.26	.25	.21	.20	.19	.19	.19	.19	.17
3	.46	.41	.37	.34	.42	.37	.34	.31	.31	.28	.26	.25	.23	.21	.19	.18	.17	.17	.17	.17	.14
4	.42	.36	.32	.29	.38	.33	.30	.27	.28	.25	.23	.22	.20	.19	.17	.16	.15	.15	.15	.15	.13
5	.39	.32	.28	.25	.35	.30	.26	.23	.25	.22	.20	.20	.18	.16	.15	.14	.13	.13	.13	.13	.11
6	.36	.29	.25	.21	.32	.27	.23	.20	.22	.19	.17	.18	.16	.14	.14	.13	.11	.11	.11	.11	.10
7	.33	.26	.22	.19	.30	.24	.20	.17	.20	.17	.15	.16	.14	.12	.13	.11	.10	.10	.10	.10	.08
8	.30	.24	.19	.16	.28	.22	.18	.15	.18	.15	.13	.15	.13	.11	.12	.10	.09	.09	.09	.09	.08
9	.28	.21	.17	.14	.26	.20	.16	.13	.16	.14	.12	.13	.11	.10	.11	.09	.08	.08	.08	.08	.07
10	.26	.19	.15	.13	.24	.18	.14	.12	.15	.12	.10	.12	.10	.09	.10	.08	.07	.07	.07	.07	.06

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 178.0  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.