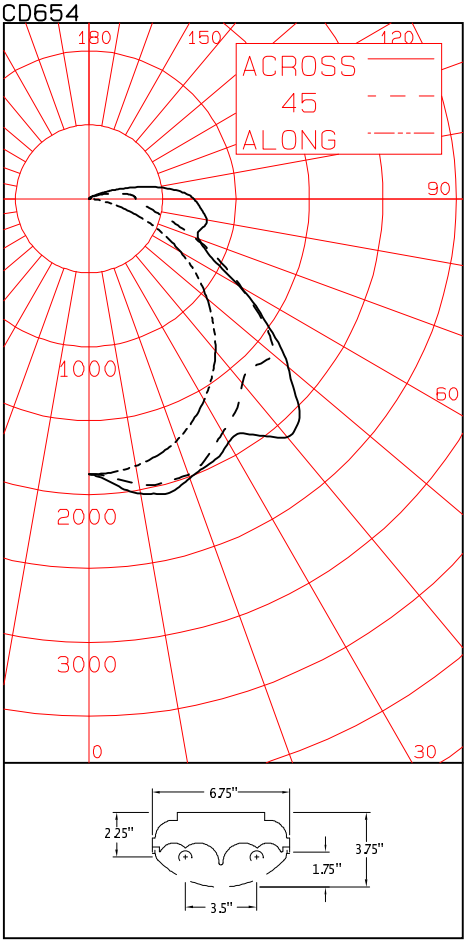
LIGHTING SCIENCES CANADA LTD.

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. LSCD654
COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI FLUORESCENT LUMINAIRE CAT. NO. BS100T5HO4HT254W120/277V
WITH SPECULAR REFLECTOR AND CLEAR WRAP LENS
TWO 54W 4100K T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4450 LMS.
SYLVANIA 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. QTP 2x54T5HO/UNV PSN HT

CD654



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	1862	1862	1862	1862	1862	
5	1857	1869	1897	1925	1935	186
15	1797	1882	1984	2046	2063	553
25	1663	1816	1918	1946	1970	863
35	1462	1659	1747	1828	1948	1092
45	1197	1365	1598	1972	2026	1254
55	894	1076	1449	1527	1478	1163
65	552	842	975	931	908	863
75	230	400	579	661	789	579
85	34	153	342	648	765	429
90	2	115	318	636	713	
95	11	58	290	547	610	324
105	8	20	135	246	289	151
115	0	4	47	81	85	47
125	0	0	10	24	28	12
135	0	0	2	8	11	3
145	0	0	3	5	5	2
155	0	1	3	5	5	1
165	0	1	2	3	4	0
175	0	0	1	1	2	0
180	0	0	0	0	0	

CANDLEPOWER SUMMARY

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1601	17.99	21.29
0-40	2693	30.26	35.81
0-60	5110	57.42	67.94
0-90	6980	78.43	92.81
40-90	4287	48.18	57.01
60-90	1870	21.02	24.87
90-180	540	6.07	7.19
0-180	7521	84.51	100.00

** EFFICIENCY = 84.5% **

LUMINANCE SUMMARY-CD. / SQ. M.

ANGLE	ALONG	45	ACROSS
45	10803	11653	13884
55	9797	11897	11197
65	8019	9485	7957
75	5187	7163	8516
85	1857	6091	11175

S/MH = 1.7
SC(ALONG) = 1.3, SC(ACROSS) = 1.7

CERTIFIED BY:
Charles Brison
DATE:
FEB 9, 2009

PREPARED FOR:
BEGHELLI USA
MIRAMAR, FL, USA

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

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160 FROBISHER DRIVE, UNIT 5
WATERLOO, ONTARIO

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CANDLEPOWER DATA

ANGLE	PLANE						OUTPUT
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	LUMENS
0	1862	1862	1862	1862	1862	1862	
5	1857	1869	1897	1925	1935	1897	186
10	1834	1882	1959	2014	2026	1946	
15	1797	1882	1984	2046	2063	1960	553
20	1741	1868	1984	2007	2010	1934	
25	1663	1816	1918	1946	1970	1874	863
30	1570	1745	1824	1897	1901	1800	
35	1462	1659	1747	1828	1948	1735	1092
40	1339	1519	1624	1951	2105	1704	
45	1197	1365	1598	1972	2026	1637	1254
50	1049	1221	1634	1765	1772	1507	
55	894	1076	1449	1527	1478	1310	1163
60	724	926	1197	1255	1181	1083	
65	552	842	975	931	908	870	863
70	383	627	758	732	794	676	
75	230	400	579	661	789	537	579
80	109	229	441	693	816	456	
85	34	153	342	648	765	386	429
90	2	115	318	636	713	357	
95	11	58	290	547	610	302	324
100	12	28	206	401	459	218	
105	8	20	135	246	289	137	151
110	4	13	79	156	170	84	
115	0	4	47	81	85	44	47
120	0	1	25	42	41	22	
125	0	0	10	24	28	12	12
130	0	0	3	14	18	6	
135	0	0	2	8	11	4	3
140	0	0	3	5	6	3	
145	0	0	3	5	5	3	2
150	0	1	4	6	6	3	
155	0	1	3	5	5	3	1
160	0	1	2	4	5	2	
165	0	1	2	3	4	2	0
170	0	1	1	2	3	1	
175	0	0	1	1	2	0	0
180	0	0	0	0	0	0	

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AVERAGE LUMINANCE DATA

CD. / SQ. M. (FOOTLAMBERTS)

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	12296(3588)	12296(3588)	12296(3588)	12296(3588)	12296(3588)
30	11735(3425)	12129(3540)	11971(3494)	12040(3514)	11958(3490)
40	11212(3272)	11460(3344)	11306(3299)	13005(3795)	13867(4047)
45	10803(3153)	10877(3174)	11653(3401)	13645(3982)	13884(4052)
50	10341(3018)	10433(3045)	12528(3656)	12788(3732)	12653(3693)
55	9797(2859)	9944(2902)	11897(3472)	11718(3420)	11197(3268)
60	9008(2629)	9437(2754)	10591(3091)	10307(3008)	9527(2780)
65	8019(2340)	9592(2799)	9485(2768)	8302(2423)	7957(2322)
70	6740(1967)	8226(2401)	8222(2399)	7182(2096)	7622(2224)
75	5187(1513)	6218(1815)	7163(2090)	7289(2127)	8516(2485)
80	3437(1003)	4404(1285)	6425(1875)	8775(2561)	10041(2930)
85	1857(542)	3905(1139)	6091(1778)	9770(2851)	11175(3261)

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	0
RCR																		
0	.99	.99	.99	.99	.96	.96	.96	.96	.91	.91	.91	.85	.85	.85	.81	.81	.81	.78
1	.90	.85	.81	.78	.87	.83	.79	.76	.78	.75	.72	.74	.71	.69	.70	.68	.66	.64
2	.81	.74	.68	.63	.79	.72	.66	.62	.68	.63	.59	.64	.61	.57	.61	.58	.55	.53
3	.74	.65	.58	.53	.72	.63	.57	.52	.60	.55	.50	.57	.52	.48	.54	.50	.47	.45
4	.68	.58	.50	.44	.66	.56	.49	.44	.53	.47	.42	.50	.45	.41	.48	.44	.40	.38
5	.62	.51	.43	.37	.59	.49	.42	.37	.47	.40	.36	.44	.39	.35	.42	.38	.34	.32
6	.57	.45	.37	.32	.55	.44	.37	.31	.42	.35	.31	.40	.34	.30	.38	.33	.29	.27
7	.52	.40	.33	.28	.50	.39	.32	.27	.37	.31	.27	.36	.30	.26	.34	.29	.25	.23
8	.48	.36	.29	.24	.46	.35	.28	.23	.33	.27	.23	.32	.26	.22	.31	.25	.22	.20
9	.44	.32	.25	.20	.42	.32	.25	.20	.30	.24	.20	.29	.23	.19	.27	.22	.19	.17
10	.41	.29	.22	.18	.40	.29	.22	.18	.27	.21	.17	.26	.21	.17	.25	.20	.16	.15

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRE INPUT WATTS = 108.3
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST FACTORS HAVE NOT BEEN APPLIED.

BALLAST TEMPERATURE = 64.8 DEGREES C