



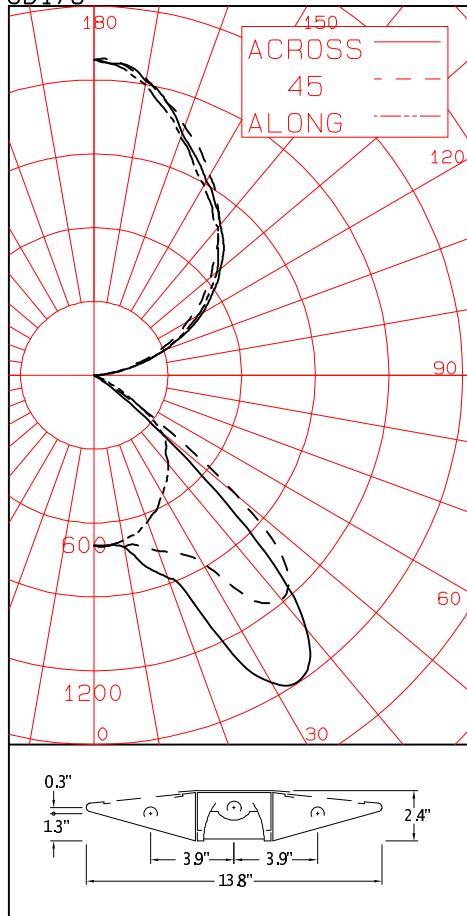
LIGHTING SCIENCES CANADA LTD.

440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9
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CERTIFIED TEST REPORT NO. LSC D176
COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI AVIOR 4' INDOOR FLUORESCENT LUMINAIRE CAT. NO. AVIOR
WITH GREY INTERIOR, 23-CELL SPECULAR LOUVER, AND PATTERNED UPLIGHT LENSES
THREE PENTRON FP54/841/HO/ECO 54W T5 FLUOR. LAMPS. LUMEN RATING = 4450 LMS.
TWO SYLVANIA 120-277V 1 OR 2-LAMP ELECT. BALLASTS NO. QTP 2x54T5HP/UNV PSN HT

CD176



CANDLEPOWER SUMMARY

OUTPUT
LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	691	691	691	691	691	
5	693	687	694	701	694	68
15	665	669	718	786	802	206
25	603	640	796	973	1133	391
35	516	656	1108	1443	1490	647
45	414	707	1107	1029	877	642
55	250	494	253	95	40	242
65	40	51	11	7	6	31
75	3	0	0	1	0	1
85	0	0	0	0	0	0
90	0	0	1	4	0	
95	37	30	33	41	38	46
105	213	203	173	185	206	206
115	398	414	361	375	414	382
125	567	589	536	552	592	503
135	714	737	703	714	745	554
145	836	860	869	859	856	535
155	954	981	1017	989	980	455
165	1117	1134	1148	1132	1146	320
175	1256	1260	1272	1268	1271	121
180	1282	1282	1282	1282	1282	

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	664	4.98	12.43
0-40	1311	9.83	24.52
0-60	2195	16.44	41.04
0-90	2228	16.69	41.65
40-90	916	6.86	17.13
60-90	32	.25	.61
90-180	3121	23.38	58.35
0-180	5349	40.07	100.00

** EFFICIENCY = 40.1% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 2.0

SC (ALONG) = 1.2, SC (ACROSS) = 2.0

ANGLE	ALONG	45	ACROSS
45	7508	20142	15956
55	5577	5684	888
65	1221	321	176
75	130	0	0
85	0	0	0

CERTIFIED BY:

Charles Lison

DATE:

MAR 29, 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					AVERAGE	OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS		
0	691	691	691	691	691	691	
5	693	687	694	701	694	694	68
10	680	692	707	713	711	702	
15	665	669	718	786	802	727	206
20	635	648	759	850	875	753	
25	603	640	796	973	1133	819	391
30	555	637	874	1343	1441	963	
35	516	656	1108	1443	1490	1053	647
40	470	669	1189	1355	1343	1030	
45	414	707	1107	1029	877	872	642
50	357	666	749	408	314	540	
55	250	494	253	95	40	247	242
60	130	244	45	21	8	95	
65	40	51	11	7	6	23	31
70	5	8	4	1	0	4	
75	3	0	0	1	0	1	1
80	0	0	0	0	0	0	
85	0	0	0	0	0	0	0
90	0	0	1	4	0	1	
95	37	30	33	41	38	35	46
100	112	114	96	102	115	106	
105	213	203	173	185	206	193	206
110	311	311	271	276	311	292	
115	398	414	361	375	414	389	382
120	488	500	439	462	511	475	
125	567	589	536	552	592	564	503
130	652	660	619	636	669	644	
135	714	737	703	714	745	721	554
140	783	787	785	780	798	786	
145	836	860	869	859	856	859	535
150	892	921	938	926	913	922	
155	954	981	1017	989	980	989	455
160	1030	1057	1076	1061	1047	1058	
165	1117	1134	1148	1132	1146	1136	320
170	1198	1209	1222	1220	1215	1214	
175	1256	1260	1272	1268	1271	1266	121
180	1282	1282	1282	1282	1282	1282	

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AVERAGE LUMINANCE DATA

ANGLE	CD. / SQ. M.		(FOOTLAMBERTS)			
	ALONG	22.5	45	67.5	ACROSS	
0	8858 (2585)	8858 (2585)	8858 (2585)	8858 (2585)	8858 (2585)	
30	8216 (2398)	9448 (2757)	12959 (3782)	19922 (5814)	21318 (6222)	
40	7863 (2295)	11222 (3275)	19912 (5811)	22728 (6633)	22461 (6555)	
45	7508 (2191)	12831 (3745)	20142 (5878)	18708 (5460)	15956 (4657)	
50	7117 (2077)	13331 (3891)	14937 (4359)	8161 (2382)	6253 (1825)	
55	5577 (1627)	11056 (3226)	5684 (1659)	2125 (620)	888 (259)	
60	3320 (969)	6270 (1830)	1165 (340)	529 (154)	199 (58)	
65	1221 (356)	1555 (453)	321 (93)	224 (65)	176 (51)	
70	197 (57)	293 (85)	143 (42)	24 (7)	0 (0)	
75	130 (38)	19 (5)	0 (0)	45 (13)	0 (0)	
80	0 (0)	0 (0)	29 (8)	0 (0)	0 (0)	
85	0 (0)	58 (17)	0 (0)	0 (0)	0 (0)	

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	.42	.42	.42	.42	.38	.38	.38	.38	.32	.32	.32	.25	.25	.25	.19	.19	.19	.19	.19	.19	.17
1	.39	.37	.36	.35	.36	.34	.33	.32	.28	.28	.27	.23	.22	.22	.18	.18	.17	.17	.17	.17	.15
2	.36	.33	.31	.29	.33	.31	.29	.27	.26	.24	.23	.21	.20	.19	.17	.16	.16	.16	.16	.16	.14
3	.33	.30	.27	.25	.30	.27	.25	.23	.23	.21	.20	.19	.18	.17	.15	.14	.14	.14	.14	.14	.12
4	.30	.27	.24	.22	.28	.25	.22	.20	.21	.19	.17	.17	.16	.15	.14	.13	.12	.12	.12	.12	.11
5	.28	.23	.21	.19	.26	.22	.19	.17	.18	.17	.15	.15	.14	.13	.12	.11	.11	.11	.11	.11	.09
6	.26	.21	.18	.16	.24	.20	.17	.15	.17	.15	.13	.14	.12	.11	.11	.10	.09	.09	.09	.09	.08
7	.24	.19	.16	.14	.22	.18	.15	.13	.15	.13	.11	.12	.11	.10	.10	.09	.08	.08	.08	.08	.07
8	.22	.17	.14	.12	.20	.16	.13	.11	.13	.11	.10	.11	.10	.08	.09	.08	.07	.07	.07	.07	.06
9	.20	.15	.12	.10	.18	.14	.11	.10	.12	.10	.08	.10	.08	.07	.08	.07	.06	.06	.06	.06	.05
10	.18	.14	.11	.09	.17	.13	.10	.08	.11	.09	.07	.09	.07	.06	.07	.06	.05	.05	.05	.05	.04

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRE INPUT WATTS = 172.0
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST FACTORS HAVE NOT BEEN APPLIED.