



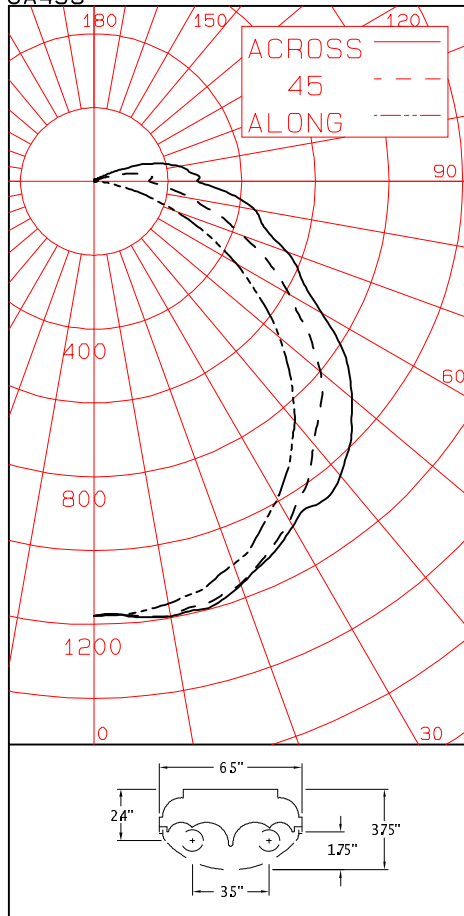
LIGHTING SCIENCES CANADA LTD.

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 A495
COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI 4' ILLUMINA 100 SERIES IP65 RATED LUMINAIRE CAT. NO. HZ10048T8232AC120
WITH SPECULAR REFLECTOR AND CLEAR WRAP LENS
TWO F32T8/TL841 32W T8 FLUORESCENT LAMPS. LUMEN RATING = 2950 LMS.
ONE SYLVANIA 120V 2-LAMP ELECTRONIC BALLAST NO. QT2x32T8/120 ISH-SC

CA495



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	1177	1177	1177	1177	1177	
5	1175	1175	1180	1187	1183	115
15	1143	1152	1183	1200	1196	331
25	1054	1076	1112	1125	1124	507
35	926	971	1005	1027	1064	625
45	756	794	868	950	986	671
55	547	596	708	812	834	624
65	339	414	525	584	621	496
75	146	208	350	445	477	349
85	23	77	201	322	367	220
90	3	51	149	255	281	
95	6	33	156	239	264	151
105	6	3	72	152	188	88
115	3	4	17	54	70	30
125	0	2	3	14	20	7
135	0	0	0	4	5	2
145	0	0	0	0	3	2
155	0	0	0	0	0	1
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	952	16.14	22.57
0-40	1577	26.73	37.38
0-60	2872	48.69	68.08
0-90	3937	66.75	93.33
40-90	2360	40.01	55.95
60-90	1065	18.06	25.25
90-180	281	4.77	6.67
0-180	4219	71.52	100.00

** EFFICIENCY = 71.5% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.4

SC (ALONG) = 1.3, SC (ACROSS) = 1.4

ANGLE	ALONG	45	ACROSS
45	5124	5032	5480
55	4500	4702	5236
65	3698	4226	4643
75	2468	3724	4582
85	932	3302	5151

CERTIFIED BY:

Charles Lison

DATE:

DEC 2, 2004

PREPARED FOR:

BEGHELLI CANADA INC.
MARKHAM, ONTARIO

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	1177	1177	1177	1177	1177	1177	
5	1175	1175	1180	1187	1183	1181	115
10	1162	1175	1195	1206	1196	1189	
15	1143	1152	1183	1200	1196	1176	331
20	1104	1122	1160	1169	1163	1146	
25	1054	1076	1112	1125	1124	1100	507
30	993	1029	1061	1080	1078	1052	
35	926	971	1005	1027	1064	1000	625
40	847	892	925	1018	1040	945	
45	756	794	868	950	986	871	671
50	656	700	801	883	913	792	
55	547	596	708	812	834	702	624
60	444	504	611	713	714	602	
65	339	414	525	584	621	501	496
70	235	308	427	513	556	411	
75	146	208	350	445	477	329	349
80	65	128	276	394	443	263	
85	23	77	201	322	367	198	220
90	3	51	149	255	281	149	
95	6	33	156	239	264	141	151
100	10	19	124	210	235	119	
105	6	3	72	152	188	81	88
110	2	3	34	98	133	51	
115	3	4	17	54	70	28	30
120	3	1	10	23	36	14	
125	0	2	3	14	20	7	7
130	0	2	2	7	14	5	
135	0	0	0	4	5	2	2
140	0	0	0	4	3	2	
145	0	0	0	0	3	1	2
150	0	0	0	0	5	1	
155	0	0	0	0	0	0	1
160	0	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M.		(FOOTLAMBERTS)	
		22.5	45	67.5	ACROSS
0	5846 (1706)	5846 (1706)	5846 (1706)	5846 (1706)	5846 (1706)
30	5580 (1628)	5485 (1600)	5426 (1583)	5392 (1574)	5354 (1562)
40	5329 (1555)	5201 (1518)	5080 (1482)	5425 (1583)	5501 (1605)
45	5124 (1495)	4916 (1434)	5032 (1468)	5301 (1547)	5480 (1599)
50	4861 (1419)	4668 (1362)	4922 (1436)	5213 (1521)	5343 (1559)
55	4500 (1313)	4329 (1263)	4702 (1372)	5132 (1497)	5236 (1528)
60	4148 (1210)	4059 (1184)	4418 (1289)	4883 (1425)	4835 (1411)
65	3698 (1079)	3770 (1100)	4226 (1233)	4406 (1285)	4643 (1355)
70	3096 (903)	3262 (952)	3900 (1138)	4333 (1264)	4644 (1355)
75	2468 (720)	2657 (775)	3724 (1086)	4324 (1262)	4582 (1337)
80	1541 (449)	2065 (602)	3564 (1040)	4536 (1324)	5014 (1463)
85	932 (272)	1707 (498)	3302 (963)	4596 (1341)	5151 (1503)

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	.84	.84	.84	.84	.81	.81	.81	.81	.77	.77	.77	.73	.73	.73	.69	.69	.69	.69	.69	.69	.67
1	.76	.72	.69	.66	.74	.70	.67	.65	.66	.64	.62	.63	.61	.59	.59	.58	.56	.56	.56	.56	.54
2	.69	.63	.58	.54	.67	.61	.56	.53	.58	.54	.51	.55	.52	.49	.52	.49	.47	.47	.47	.47	.45
3	.63	.55	.49	.45	.61	.54	.48	.44	.51	.46	.43	.48	.45	.41	.46	.43	.40	.40	.40	.40	.38
4	.58	.49	.43	.38	.56	.48	.42	.37	.45	.40	.36	.43	.39	.35	.41	.37	.34	.34	.34	.34	.33
5	.53	.43	.37	.32	.51	.42	.36	.31	.40	.35	.31	.38	.33	.30	.36	.32	.29	.29	.29	.29	.27
6	.48	.39	.32	.27	.47	.38	.31	.27	.36	.30	.26	.34	.29	.26	.33	.28	.25	.25	.25	.25	.24
7	.44	.35	.28	.24	.43	.34	.28	.23	.32	.27	.23	.31	.26	.22	.29	.25	.22	.22	.22	.22	.20
8	.41	.31	.25	.20	.40	.30	.24	.20	.29	.24	.20	.28	.23	.19	.26	.22	.19	.19	.19	.19	.18
9	.38	.28	.22	.18	.36	.27	.21	.17	.26	.21	.17	.25	.20	.17	.24	.20	.16	.16	.16	.16	.15
10	.35	.25	.19	.16	.34	.25	.19	.15	.24	.19	.15	.23	.18	.15	.22	.17	.14	.14	.14	.14	.13

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRE INPUT WATTS = 70.1
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST FACTORS HAVE NOT BEEN APPLIED.