



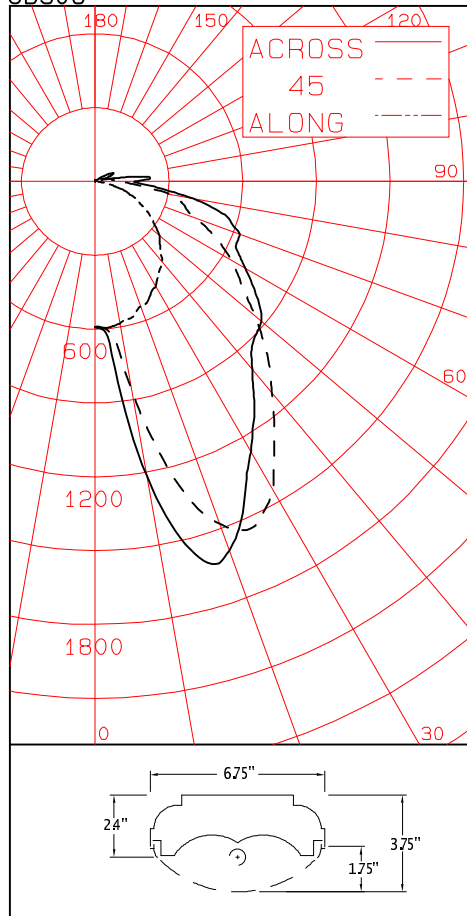
# LIGHTING SCIENCES CANADA LTD.

440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9  
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CERTIFIED TEST REPORT NO. LSC B506  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI 4FT. LUMINAIRE CAT. NO. HZ100 4 HT F1 120V PC REFLECTOR  
WITH PC ALUMINIZED REFLECTOR AND CLEAR WRAP LENS  
ONE 54W T5 HO FLUORESCENT LAMP. LUMEN RATING = 4450 LMS.  
ONE SYLVANIA 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. QTP2x54T5HO/UNV PSN HT

CB506



## CANDLEPOWER SUMMARY

## OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	593	593	593	593	593	
5	597	591	610	634	661	69
15	573	716	1253	1511	1567	321
25	521	1092	1543	1491	1437	582
35	453	1261	1273	1179	1131	702
45	375	1117	988	912	913	707
55	290	784	726	792	799	638
65	191	491	544	583	632	513
75	88	257	375	527	555	383
85	8	95	173	240	241	181
90	0	28	101	155	160	
95	0	12	71	157	213	90
105	0	2	48	47	25	34
115	0	0	8	53	81	23
125	0	0	0	26	25	9
135	0	0	0	2	0	1
145	0	0	0	0	0	0
155	0	0	0	0	0	0
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	973	21.87	22.87
0-40	1675	37.65	39.38
0-60	3021	67.89	71.00
0-90	4098	92.09	96.31
40-90	2422	54.44	56.93
60-90	1076	24.20	25.31
90-180	157	3.53	3.69
0-180	4255	95.62	100.00

\*\* EFFICIENCY = 95.6% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 2.1

SC (ALONG) = 1.2, SC (ACROSS) = 2.1

ANGLE	ALONG	45	ACROSS
45	2443	5683	5086
55	2294	4834	5100
65	2008	4466	4895
75	1440	4167	5695
85	296	3132	3828

CERTIFIED BY:

*Charles Lison*

DATE:

DEC 22, 2006

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	593	593	593	593	593	593	
5	597	591	610	634	661	616	69
10	585	599	872	1129	1221	875	
15	573	716	1253	1511	1567	1138	321
20	540	915	1480	1618	1595	1270	
25	521	1092	1543	1491	1437	1276	582
30	492	1212	1447	1310	1267	1212	
35	453	1261	1273	1179	1131	1126	702
40	426	1236	1118	1039	995	1026	
45	375	1117	988	912	913	915	707
50	341	953	848	856	883	817	
55	290	784	726	792	799	711	638
60	244	637	642	706	704	615	
65	191	491	544	583	632	507	513
70	145	365	432	585	625	442	
75	88	257	375	527	555	370	383
80	40	161	313	388	406	271	
85	8	95	173	240	241	158	181
90	0	28	101	155	160	91	
95	0	12	71	157	213	87	90
100	0	5	68	111	76	55	
105	0	2	48	47	25	27	34
110	0	0	25	46	64	26	
115	0	0	8	53	81	25	23
120	0	0	7	37	58	18	
125	0	0	0	26	25	10	9
130	0	0	0	9	1	2	
135	0	0	0	2	0	0	1
140	0	0	0	0	0	0	
145	0	0	0	0	0	0	0
150	0	0	0	0	0	0	
155	0	0	0	0	0	0	0
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)		ACROSS	
			22.5		45			
0	2827 (	825)	2827 (	825)	2827 (	825)	2827 (	825)
30	2655 (	775)	6279 (	1832)	7246 (	2115)	6439 (	1879)
40	2576 (	752)	7039 (	2054)	6066 (	1770)	5505 (	1606)
45	2443 (	713)	6767 (	1975)	5683 (	1658)	5087 (	1484)
50	2430 (	709)	6245 (	1822)	5198 (	1517)	5081 (	1482)
55	2294 (	669)	5607 (	1636)	4834 (	1410)	5069 (	1479)
60	2197 (	641)	5088 (	1485)	4690 (	1368)	4936 (	1440)
65	2008 (	586)	4447 (	1298)	4466 (	1303)	4534 (	1323)
70	1839 (	537)	3886 (	1134)	4061 (	1185)	5164 (	1507)
75	1440 (	420)	3323 (	970)	4167 (	1216)	5437 (	1586)
80	906 (	264)	2695 (	786)	4302 (	1255)	4834 (	1411)
85	296 (	86)	2251 (	657)	3132 (	914)	3848 (	1123)

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	0			
RCR																					
0	1.13	1.13	1.13	1.13	1.10	1.10	1.10	1.10	1.04	1.04	1.04	.99	.99	.99	.94	.94	.94	.92			
1	1.03	.98	.93	.89	1.00	.95	.91	.88	.90	.87	.84	.86	.84	.81	.82	.80	.78	.76			
2	.93	.85	.78	.73	.90	.83	.77	.71	.79	.74	.69	.75	.71	.67	.72	.68	.65	.63			
3	.85	.75	.67	.60	.82	.73	.66	.60	.70	.63	.58	.66	.61	.57	.64	.59	.55	.53			
4	.78	.66	.57	.51	.75	.65	.57	.50	.62	.55	.49	.59	.53	.48	.56	.51	.47	.45			
5	.71	.58	.49	.43	.68	.57	.48	.42	.54	.47	.42	.52	.46	.41	.50	.44	.40	.38			
6	.65	.52	.43	.37	.63	.51	.42	.36	.48	.41	.36	.47	.40	.35	.45	.39	.34	.32			
7	.60	.46	.38	.32	.58	.45	.37	.31	.44	.36	.31	.42	.35	.30	.40	.34	.30	.28			
8	.55	.41	.33	.27	.53	.40	.33	.27	.39	.32	.27	.37	.31	.26	.36	.30	.26	.24			
9	.50	.37	.29	.23	.49	.36	.29	.23	.35	.28	.23	.34	.27	.22	.32	.26	.22	.20			
10	.47	.34	.25	.20	.45	.33	.25	.20	.32	.25	.20	.30	.24	.19	.29	.23	.19	.17			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 59.9  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.