



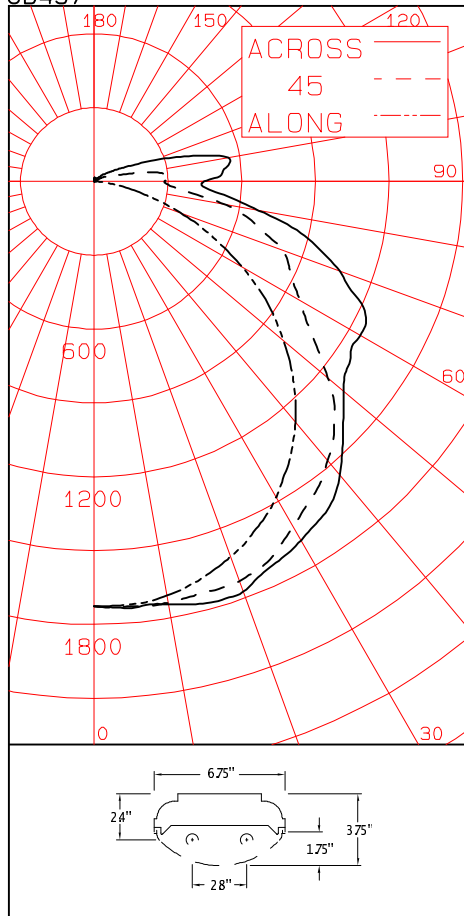
LIGHTING SCIENCES CANADA LTD.

440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9
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CERTIFIED TEST REPORT NO. LSC B497
COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI 4FT. LUMINAIRE CAT. NO. HZ100 4 HT F2 120V STEEL REFLECTOR
WITH WHITE PAINTED STEEL REFLECTOR AND CLEAR WRAP LENS
TWO 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4450 LMS.
ONE SYLVANIA 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. QTP2x54T5HO/UNV PSN HT

CB497



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	1726	1726	1726	1726	1726	
5	1725	1716	1732	1742	1740	168
15	1673	1677	1730	1775	1774	488
25	1557	1591	1696	1718	1720	765
35	1385	1469	1557	1625	1643	962
45	1147	1246	1382	1419	1433	1029
55	861	982	1081	1214	1271	974
65	531	676	882	1148	1210	877
75	224	379	683	860	903	655
85	33	170	348	467	497	360
90	4	107	285	396	447	
95	3	80	299	440	527	287
105	8	14	91	319	397	171
115	0	0	46	109	138	59
125	0	0	11	40	53	19
135	0	0	6	18	12	6
145	0	0	0	6	7	2
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	1420	15.96	20.82
0-40	2382	26.77	34.93
0-60	4385	49.28	64.30
0-90	6276	70.53	92.02
40-90	3894	43.76	57.10
60-90	1891	21.25	27.73
90-180	544	6.11	7.98
0-180	6820	76.63	100.00

** EFFICIENCY = 76.6% **

LUMINANCE SUMMARY-CD. / SQ. M.

PAINT REFLECTANCE = .75 S/MH = 1.5
SC (ALONG) = 1.3, SC (ACROSS) = 1.5

ANGLE	ALONG	45	ACROSS
45	7476	7699	7642
55	6816	6903	7665
65	5577	6832	8689
75	3644	6985	8334
85	1297	5519	6699

CERTIFIED BY:

Charles Lison

DATE:
DEC 15, 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	1726	1726	1726	1726	1726	1726	
5	1725	1716	1732	1742	1740	1731	168
10	1708	1710	1738	1752	1744	1732	
15	1673	1677	1730	1775	1774	1726	488
20	1623	1641	1728	1775	1775	1711	
25	1557	1591	1696	1718	1720	1661	765
30	1483	1537	1621	1675	1684	1604	
35	1385	1469	1557	1625	1643	1541	962
40	1275	1367	1479	1556	1557	1454	
45	1147	1246	1382	1419	1433	1334	1029
50	1007	1119	1241	1300	1325	1206	
55	861	982	1081	1214	1271	1086	974
60	696	842	967	1169	1251	988	
65	531	676	882	1148	1210	894	877
70	373	513	818	1007	1064	764	
75	224	379	683	860	903	621	655
80	108	273	546	648	680	465	
85	33	170	348	467	497	313	360
90	4	107	285	396	447	253	
95	3	80	299	440	527	271	287
100	7	23	210	434	555	237	
105	8	14	91	319	397	157	171
110	0	12	56	188	247	95	
115	0	0	46	109	138	56	59
120	0	0	26	69	84	34	
125	0	0	11	40	53	20	19
130	0	0	5	22	29	11	
135	0	0	6	18	12	8	6
140	0	0	4	7	9	4	
145	0	0	0	6	7	3	2
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	67.5		
0	8231 (2402)	8231 (2402)	8231 (2402)	8231 (2402)		8231 (2402)
30	8002 (2335)	7871 (2297)	7960 (2323)	8029 (2343)		8028 (2343)
40	7713 (2251)	7662 (2236)	7806 (2278)	7959 (2323)		7908 (2308)
45	7476 (2182)	7409 (2162)	7699 (2247)	7607 (2220)		7642 (2230)
50	7168 (2092)	7173 (2093)	7327 (2138)	7367 (2150)		7441 (2171)
55	6816 (1989)	6856 (2001)	6903 (2014)	7365 (2149)		7665 (2237)
60	6258 (1826)	6525 (1904)	6728 (1963)	7686 (2243)		8138 (2375)
65	5577 (1627)	5921 (1728)	6832 (1994)	8316 (2427)		8689 (2536)
70	4749 (1386)	5236 (1528)	7189 (2098)	8180 (2387)		8531 (2490)
75	3644 (1063)	4655 (1358)	6985 (2038)	8036 (2345)		8334 (2432)
80	2470 (721)	4260 (1243)	6782 (1979)	7170 (2092)		7387 (2156)
85	1297 (378)	3658 (1067)	5519 (1610)	6419 (1873)		6699 (1955)

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	.90	.90	.90	.90	.87	.87	.87	.87	.82	.82	.82	.77	.77	.77	.73	.73	.73	.71			
1	.81	.77	.73	.70	.78	.75	.71	.68	.70	.68	.65	.66	.64	.62	.62	.61	.59	.57			
2	.73	.67	.61	.56	.71	.65	.59	.55	.61	.57	.53	.57	.54	.51	.54	.51	.49	.47			
3	.67	.58	.52	.47	.64	.57	.51	.46	.53	.48	.44	.50	.46	.43	.48	.44	.41	.39			
4	.61	.51	.44	.39	.59	.50	.44	.38	.47	.42	.37	.45	.40	.36	.42	.38	.35	.33			
5	.55	.45	.38	.33	.53	.44	.37	.32	.42	.36	.31	.39	.34	.30	.37	.33	.29	.28			
6	.51	.40	.33	.28	.49	.39	.32	.28	.37	.31	.27	.35	.30	.26	.33	.29	.25	.24			
7	.47	.36	.29	.24	.45	.35	.29	.24	.33	.27	.23	.32	.26	.23	.30	.26	.22	.20			
8	.43	.32	.26	.21	.42	.31	.25	.21	.30	.24	.20	.29	.23	.20	.27	.23	.19	.17			
9	.40	.29	.22	.18	.38	.28	.22	.18	.27	.21	.17	.26	.20	.17	.24	.20	.16	.15			
10	.37	.26	.20	.16	.36	.26	.20	.16	.24	.19	.15	.23	.18	.15	.22	.18	.14	.13			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 107.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.