



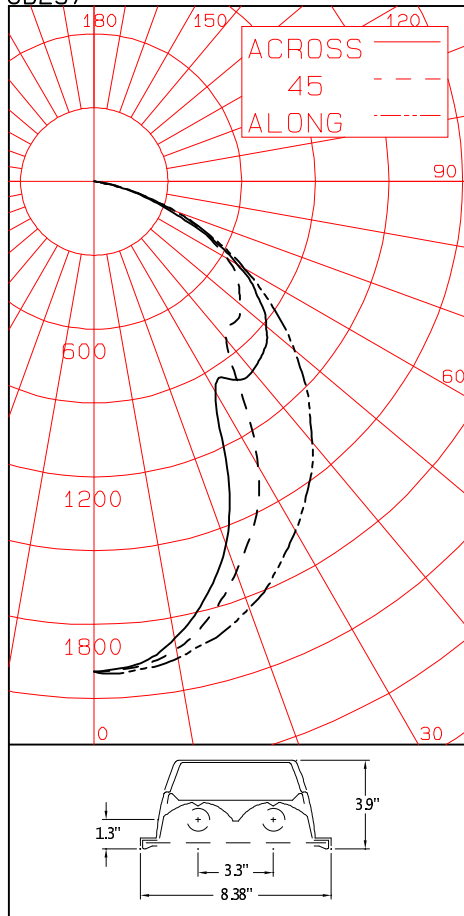
# LIGHTING SCIENCES CANADA LTD.

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CERTIFIED TEST REPORT NO. LSC B297  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI BS120 SERIES 4' LUMINAIRE CAT. NO. BS120 4 HT D 120V NARROW  
WITH SPECULAR REFLECTOR AND CLEAR FLAT GLASS LENS  
TWO F32T8/TL841 32W T8 FLUORESCENT LAMPS. LUMEN RATING = 2950 LMS.  
ONE SYLVANIA 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. QTP2x32T8/UNV ISN-SC

CB297



## CANDLEPOWER SUMMARY

OUTPUT  
LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	1993	1993	1993	1993	1993	
5	1991	1978	1980	1982	1970	190
10	1966	1953	1929	1903	1886	
15	1918	1896	1826	1771	1749	513
20	1845	1792	1689	1617	1570	
25	1749	1679	1538	1371	1284	694
30	1640	1542	1331	1042	986	
35	1518	1394	1042	933	983	727
40	1381	1227	837	972	1003	
45	1232	1033	808	936	976	744
50	1063	790	777	884	914	
55	888	559	717	796	811	655
60	708	459	625	667	673	
65	523	389	497	506	491	465
70	347	296	345	315	301	
75	186	193	181	176	173	193
80	61	67	72	50	48	
85	0	7	0	0	1	15
90	0	0	0	0	0	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1397	23.69	33.31
0-40	2124	36.00	50.62
0-60	3523	59.72	83.97
0-90	4195	71.12	100.00
40-90	2071	35.11	49.38
60-90	672	11.40	16.03
90-180	0	.00	.00
0-180	4195	71.12	100.00

\*\* EFFICIENCY = 71.1% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = .9

SC (ALONG) = 1.2, SC (ACROSS) = .9

ANGLE	ALONG	45	ACROSS
45	7956	5236	6325
55	7066	5730	6481
65	5654	5386	5326
75	3278	3203	3069
85	0	0	62

CERTIFIED BY:

*K. Frank Lin*

DATE:

AUG 4, 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.

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	1993	1993	1993	1993	1993	1993	190
2.5	2002	2000	1988	1991	1983	1993	
5.0	1991	1978	1980	1982	1970	1980	
7.5	1984	1968	1961	1949	1940	1960	
10.0	1966	1953	1929	1903	1886	1928	
12.5	1939	1925	1887	1849	1825	1886	513
15.0	1918	1896	1826	1771	1749	1832	
17.5	1883	1855	1762	1704	1667	1774	
20.0	1845	1792	1689	1617	1570	1702	
22.5	1806	1742	1614	1508	1442	1622	
25.0	1749	1679	1538	1371	1284	1526	694
27.5	1694	1606	1451	1191	1092	1410	
30.0	1640	1542	1331	1042	986	1307	
32.5	1582	1463	1196	954	947	1219	727
35.0	1518	1394	1042	933	983	1155	
37.5	1459	1301	909	952	1009	1099	
40.0	1381	1227	837	972	1003	1057	
42.5	1301	1124	802	959	991	1008	
45.0	1232	1033	808	936	976	970	744
47.5	1147	917	804	917	954	922	
50.0	1063	790	777	884	914	860	
52.5	981	670	746	845	875	797	655
55.0	888	559	717	796	811	730	
57.5	797	493	681	742	757	673	
60.0	708	459	625	667	673	610	
62.5	617	432	561	601	594	550	
65.0	523	389	497	506	491	475	465
67.5	441	340	431	400	382	396	
70.0	347	296	345	315	301	320	
72.5	263	243	255	229	231	243	193
75.0	186	193	181	176	173	183	
77.5	122	130	110	115	106	117	
80.0	61	67	72	50	48	61	
82.5	29	28	17	20	19	22	
85.0	0	7	0	0	1	2	15
87.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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WITH SPECULAR REFLECTOR AND CLEAR FLAT GLASS LENS  
TWO F32T8/TL841 32W T8 FLUORESCENT LAMPS. LUMEN RATING = 2950 LMS.  
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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M.		(FOOTLAMBERTS)	
		22.5	45	67.5	ACROSS
0	9098 ( 2655)	9098 ( 2655)	9098 ( 2655)	9098 ( 2655)	9098 ( 2655)
30	8647 ( 2523)	8151 ( 2379)	7032 ( 2052)	5506 ( 1607)	5200 ( 1517)
40	8231 ( 2402)	7330 ( 2139)	4996 ( 1458)	5807 ( 1695)	5979 ( 1745)
45	7956 ( 2322)	6681 ( 1950)	5236 ( 1528)	6062 ( 1769)	6325 ( 1846)
50	7553 ( 2204)	5632 ( 1643)	5517 ( 1610)	6296 ( 1837)	6494 ( 1895)
55	7066 ( 2062)	4454 ( 1300)	5730 ( 1672)	6351 ( 1853)	6481 ( 1891)
60	6462 ( 1886)	4207 ( 1228)	5711 ( 1667)	6109 ( 1783)	6143 ( 1793)
65	5654 ( 1650)	4208 ( 1228)	5386 ( 1572)	5484 ( 1600)	5326 ( 1554)
70	4635 ( 1352)	3963 ( 1156)	4620 ( 1348)	4217 ( 1231)	4013 ( 1171)
75	3278 ( 956)	3420 ( 998)	3203 ( 934)	3115 ( 909)	3069 ( 895)
80	1601 ( 467)	1777 ( 518)	1910 ( 557)	1320 ( 385)	1252 ( 365)
85	0 ( 0)	353 ( 103)	0 ( 0)	0 ( 0)	62 ( 18)

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	.85	.85	.85	.85	.83	.83	.83	.83	.79	.79	.79	.76	.76	.76	.73	.73	.73	.71	.71	.71	.71
1	.79	.76	.73	.71	.77	.74	.72	.70	.71	.69	.68	.69	.67	.66	.66	.65	.64	.62	.62	.62	.62
2	.73	.68	.64	.60	.71	.66	.62	.59	.64	.61	.58	.62	.59	.57	.60	.57	.55	.54	.54	.54	.54
3	.67	.60	.55	.51	.65	.59	.55	.51	.57	.53	.50	.55	.52	.49	.54	.51	.48	.47	.47	.47	.47
4	.62	.54	.49	.44	.60	.53	.48	.44	.51	.47	.43	.50	.46	.43	.48	.45	.42	.41	.41	.41	.41
5	.57	.48	.42	.38	.55	.47	.42	.38	.46	.41	.37	.45	.40	.37	.43	.40	.37	.35	.35	.35	.35
6	.52	.43	.38	.33	.51	.43	.37	.33	.42	.37	.33	.40	.36	.33	.39	.35	.32	.31	.31	.31	.31
7	.48	.39	.33	.29	.47	.39	.33	.29	.38	.33	.29	.37	.32	.29	.36	.32	.28	.27	.27	.27	.27
8	.45	.35	.30	.26	.44	.35	.29	.26	.34	.29	.25	.33	.29	.25	.32	.28	.25	.24	.24	.24	.24
9	.41	.32	.26	.22	.40	.32	.26	.22	.31	.26	.22	.30	.25	.22	.29	.25	.22	.21	.21	.21	.21
10	.38	.29	.24	.20	.38	.29	.24	.20	.28	.23	.20	.28	.23	.20	.27	.23	.20	.18	.18	.18	.18

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
LUMINAIRE INPUT WATTS = 55.7  
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
BALLAST FACTORS HAVE NOT BEEN APPLIED.