



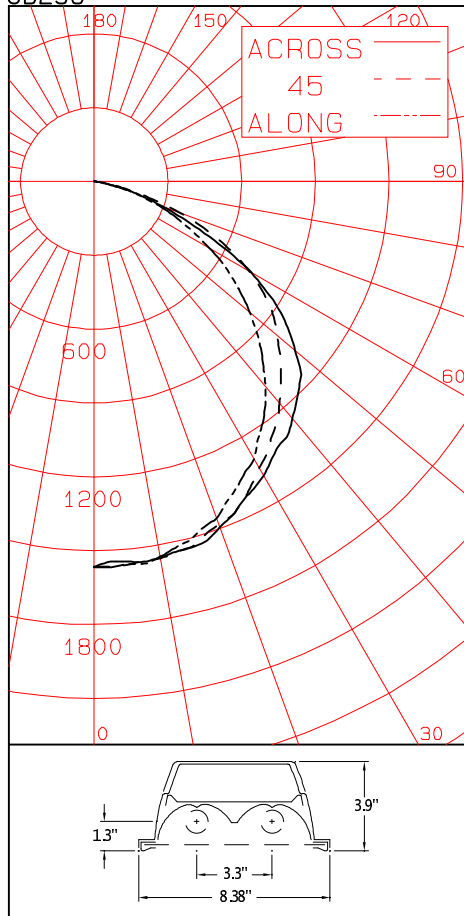
# LIGHTING SCIENCES CANADA LTD.

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 B296  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI BS120 SERIES 4' LUMINAIRE CAT. NO. BS120 4 HT D 120V  
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

CB296



## CANDLEPOWER SUMMARY

OUTPUT  
LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	1567	1567	1567	1567	1567	
5	1561	1548	1563	1558	1551	151
10	1548	1530	1555	1562	1551	
15	1508	1504	1536	1538	1539	429
20	1456	1450	1484	1505	1495	
25	1372	1386	1432	1444	1431	651
30	1302	1306	1344	1368	1380	
35	1196	1221	1261	1315	1311	789
40	1085	1125	1174	1232	1256	
45	960	993	1075	1152	1181	827
50	826	865	971	1066	1068	
55	688	733	870	929	928	740
60	541	606	726	742	735	
65	395	466	560	524	495	496
70	269	345	370	320	302	
75	150	209	188	161	157	192
80	51	82	66	55	47	
85	0	7	10	0	1	16
90	0	0	0	0	0	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1230	20.85	28.68
0-40	2019	34.22	47.07
0-60	3585	60.77	83.58
0-90	4289	72.71	100.00
40-90	2270	38.49	52.93
60-90	704	11.94	16.42
90-180	0	.00	.00
0-180	4289	72.71	100.00

\*\* EFFICIENCY = 72.7% \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.3

SC (ALONG) = 1.2, SC (ACROSS) = 1.3

ANGLE	ALONG	45	ACROSS
45	6195	6970	7656
55	5480	6954	7417
65	4267	6075	5366
75	2649	3314	2786
85	0	533	78

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.

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CANDLEPOWER DATA  
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	1567	1567	1567	1567	1567	1567	
2.5	1568	1557	1565	1554	1547	1558	
5.0	1561	1548	1563	1558	1551	1556	151
7.5	1567	1549	1554	1560	1559	1556	
10.0	1548	1530	1555	1562	1551	1549	
12.5	1524	1515	1541	1553	1541	1535	
15.0	1508	1504	1536	1538	1539	1525	429
17.5	1474	1474	1503	1527	1528	1502	
20.0	1456	1450	1484	1505	1495	1479	
22.5	1410	1420	1467	1465	1469	1448	
25.0	1372	1386	1432	1444	1431	1416	651
27.5	1332	1353	1388	1398	1406	1377	
30.0	1302	1306	1344	1368	1380	1340	
32.5	1242	1265	1309	1342	1342	1302	
35.0	1196	1221	1261	1315	1311	1263	789
37.5	1143	1174	1226	1265	1297	1221	
40.0	1085	1125	1174	1232	1256	1175	
42.5	1020	1056	1126	1198	1219	1125	
45.0	960	993	1075	1152	1181	1073	827
47.5	893	931	1025	1116	1141	1022	
50.0	826	865	971	1066	1068	962	
52.5	758	799	925	994	1000	899	
55.0	688	733	870	929	928	835	740
57.5	624	668	802	838	834	759	
60.0	541	606	726	742	735	678	
62.5	470	539	650	635	618	592	
65.0	395	466	560	524	495	499	496
67.5	336	414	468	415	388	415	
70.0	269	345	370	320	302	330	
72.5	204	285	267	221	216	246	
75.0	150	209	188	161	157	178	192
77.5	88	142	113	107	92	113	
80.0	51	82	66	55	47	63	
82.5	20	34	24	20	17	24	
85.0	0	7	10	0	1	5	16
87.5	0	0	0	0	0	0	
90.0	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	7153( 2087)	7153( 2087)	7153( 2087)	7153( 2087)		7153( 2087)
30	6862( 2003)	6905( 2015)	7104( 2073)	7232( 2110)		7276( 2123)
40	6463( 1886)	6721( 1961)	7005( 2044)	7361( 2148)		7483( 2184)
45	6195( 1808)	6420( 1874)	6970( 2034)	7462( 2177)		7656( 2234)
50	5865( 1712)	6168( 1800)	6899( 2013)	7595( 2217)		7586( 2214)
55	5480( 1599)	5841( 1704)	6954( 2029)	7419( 2165)		7417( 2164)
60	4937( 1441)	5556( 1621)	6639( 1937)	6789( 1981)		6712( 1959)
65	4267( 1245)	5042( 1471)	6075( 1773)	5675( 1656)		5366( 1566)
70	3585( 1046)	4627( 1350)	4956( 1446)	4275( 1247)		4027( 1175)
75	2649( 773)	3698( 1079)	3314( 967)	2843( 829)		2786( 813)
80	1330( 388)	2171( 633)	1741( 508)	1458( 425)		1232( 359)
85	0( 0)	384( 112)	533( 155)	0( 0)		78( 22)

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	.87	.87	.87	.87	.85	.85	.85	.85	.81	.81	.81	.77	.77	.77	.74	.74	.74	.74	.74	.74	.73
1	.80	.77	.75	.72	.78	.76	.73	.71	.73	.71	.69	.70	.68	.67	.67	.66	.65	.65	.65	.65	.63
2	.74	.69	.64	.61	.72	.67	.63	.60	.65	.61	.59	.63	.60	.57	.60	.58	.56	.56	.56	.56	.55
3	.68	.61	.56	.52	.66	.60	.55	.51	.58	.54	.50	.56	.52	.49	.54	.51	.49	.49	.49	.49	.47
4	.62	.54	.49	.44	.61	.53	.48	.44	.52	.47	.43	.50	.46	.43	.48	.45	.42	.42	.42	.42	.41
5	.57	.48	.42	.37	.55	.47	.41	.37	.46	.41	.37	.44	.40	.36	.43	.39	.36	.36	.36	.36	.35
6	.52	.43	.37	.32	.51	.42	.36	.32	.41	.36	.32	.40	.35	.32	.39	.35	.31	.31	.31	.31	.30
7	.48	.39	.33	.28	.47	.38	.32	.28	.37	.32	.28	.36	.31	.27	.35	.31	.27	.27	.27	.27	.26
8	.44	.35	.29	.24	.43	.34	.28	.24	.33	.28	.24	.32	.27	.24	.31	.27	.24	.24	.24	.24	.22
9	.41	.31	.25	.21	.40	.31	.25	.21	.30	.25	.21	.29	.24	.21	.28	.24	.20	.20	.20	.20	.19
10	.38	.28	.22	.19	.37	.28	.22	.18	.27	.22	.18	.26	.22	.18	.26	.21	.18	.18	.18	.18	.17

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 55.5  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.