



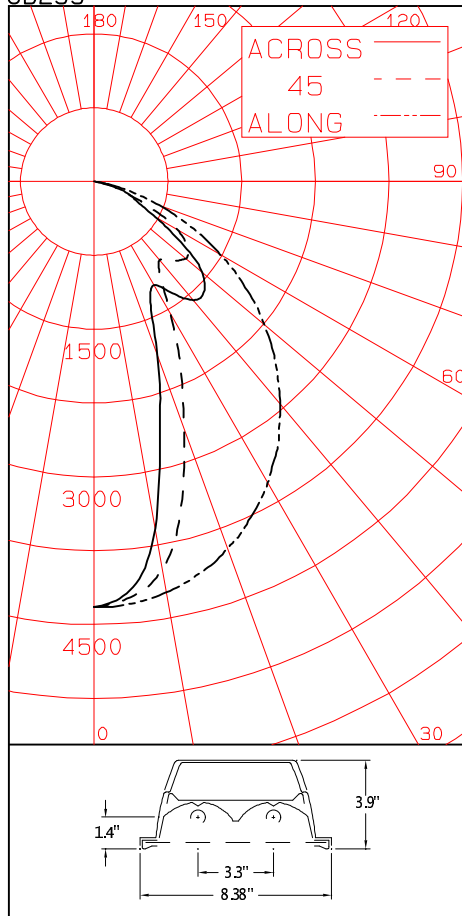
LIGHTING SCIENCES CANADA LTD.

440 Phillip St., Unit 19, Waterloo, Ontario, Canada N2L 5R9
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CERTIFIED TEST REPORT NO. LSC B299
COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI BS120 SERIES 4' LUMINAIRE CAT. NO. BS120 4 HT F 120V NARROW
WITH SPECULAR REFLECTOR AND CLEAR FLAT GLASS LENS
TWO 54W T5 HO FLUORESCENT LAMPS. LUMEN RATING = 4450 LMS.
ONE UNIVERSAL ACCUSTART 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. B254PUNV-D

CB299



CANDLEPOWER SUMMARY

OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	4323	4323	4323	4323	4323	
5	4305	4276	4239	4197	4172	401
10	4236	4151	3998	3738	3579	
15	4124	3961	3420	2818	2587	942
20	3967	3649	2677	2100	1886	
25	3765	3224	2081	1495	1352	1077
30	3535	2689	1550	1222	1214	
35	3266	2161	1177	1254	1386	1091
40	2951	1693	1039	1439	1574	
45	2615	1281	1143	1518	1582	1156
50	2254	896	1217	1433	1431	
55	1876	666	1160	1175	1074	995
60	1484	602	974	786	722	
65	1079	585	641	501	483	632
70	708	470	355	363	375	
75	375	264	224	220	203	255
80	121	60	75	19	9	
85	0	4	0	0	0	10
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	2420	27.19	36.90
0-40	3511	39.45	53.53
0-60	5661	63.61	86.32
0-90	6559	73.70	100.00
40-90	3047	34.25	46.47
60-90	897	10.08	13.68
90-180	0	.00	.00
0-180	6559	73.70	100.00

** EFFICIENCY = 73.7% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = .6

SC (ALONG) = 1.2, SC (ACROSS) = .6

ANGLE	ALONG	45	ACROSS
45	16883	7406	10251
55	14937	9271	8584
65	11658	6950	5237
75	6620	3954	3594
85	0	0	0

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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 ONE UNIVERSAL ACCUSTART 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. B254PUNV-D

CANDLEPOWER DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	4323	4323	4323	4323	4323	4323	
2.5	4322	4302	4293	4292	4275	4296	
5.0	4305	4276	4239	4197	4172	4238	401
7.5	4277	4219	4156	4033	3958	4131	
10.0	4236	4151	3998	3738	3579	3949	
12.5	4189	4070	3761	3319	3067	3694	
15.0	4124	3961	3420	2818	2587	3389	942
17.5	4064	3821	3046	2432	2234	3112	
20.0	3967	3649	2677	2100	1886	2838	
22.5	3882	3454	2356	1783	1571	2580	
25.0	3765	3224	2081	1495	1352	2340	1077
27.5	3655	2956	1807	1294	1245	2127	
30.0	3535	2689	1550	1222	1214	1959	
32.5	3392	2413	1329	1184	1271	1814	
35.0	3266	2161	1177	1254	1386	1730	1091
37.5	3098	1914	1080	1347	1493	1659	
40.0	2951	1693	1039	1439	1574	1609	
42.5	2775	1488	1077	1514	1602	1567	
45.0	2615	1281	1143	1518	1582	1510	1156
47.5	2441	1088	1181	1500	1523	1438	
50.0	2254	896	1217	1433	1431	1347	
52.5	2084	760	1207	1321	1296	1245	
55.0	1876	666	1160	1175	1074	1119	995
57.5	1694	608	1086	985	886	992	
60.0	1484	602	974	786	722	866	
62.5	1297	611	839	628	579	754	
65.0	1079	585	641	501	483	627	632
67.5	887	541	492	432	428	531	
70.0	708	470	355	363	375	433	
72.5	525	377	278	298	304	342	
75.0	375	264	224	220	203	249	255
77.5	233	136	160	101	83	139	
80.0	121	60	75	19	9	55	
82.5	16	22	12	0	0	10	
85.0	0	4	0	0	0	1	10
87.5	0	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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AVERAGE LUMINANCE DATA

		CD. / SQ. M.		(FOOTLAMBERTS)			
ANGLE	ALONG	22.5	45	67.5	ACROSS		
0	19738 (5760)	19738 (5760)	19738 (5760)	19738 (5760)	19738 (5760)		
30	18635 (5438)	14215 (4148)	8191 (2390)	6459 (1885)	6400 (1868)		
40	17587 (5133)	10119 (2953)	6197 (1808)	8602 (2510)	9384 (2738)		
45	16883 (4927)	8284 (2417)	7406 (2161)	9828 (2868)	10251 (2991)		
50	16013 (4673)	6388 (1864)	8649 (2524)	10205 (2978)	10163 (2966)		
55	14937 (4359)	5314 (1551)	9271 (2705)	9380 (2737)	8584 (2505)		
60	13551 (3955)	5514 (1609)	8907 (2599)	7193 (2099)	6594 (1924)		
65	11658 (3402)	6325 (1846)	6950 (2028)	5432 (1585)	5237 (1528)		
70	9446 (2757)	6299 (1838)	4754 (1387)	4860 (1418)	5010 (1462)		
75	6620 (1932)	4673 (1363)	3954 (1154)	3897 (1137)	3594 (1049)		
80	3174 (926)	1588 (463)	1973 (575)	492 (143)	235 (68)		
85	0 (0)	216 (63)	0 (0)	0 (0)	0 (0)		

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	.88	.88	.88	.88	.86	.86	.86	.86	.82	.82	.82	.78	.78	.78	.75	.75	.75	.75	.75	.75	.74
1	.82	.79	.77	.74	.80	.78	.75	.73	.74	.73	.71	.72	.70	.69	.69	.68	.67	.67	.68	.67	.65
2	.76	.71	.67	.63	.74	.70	.66	.63	.67	.64	.61	.65	.62	.60	.63	.60	.58	.63	.60	.58	.57
3	.70	.64	.59	.55	.69	.63	.58	.54	.61	.57	.53	.59	.55	.52	.57	.54	.52	.57	.54	.52	.50
4	.65	.57	.52	.48	.63	.56	.51	.47	.55	.50	.47	.53	.49	.46	.52	.48	.45	.52	.48	.45	.44
5	.60	.52	.46	.41	.58	.51	.45	.41	.49	.44	.41	.48	.43	.40	.46	.43	.40	.46	.43	.40	.38
6	.56	.47	.41	.37	.54	.46	.40	.36	.45	.40	.36	.43	.39	.36	.42	.38	.35	.42	.38	.35	.34
7	.51	.42	.37	.33	.50	.42	.36	.32	.41	.36	.32	.40	.35	.32	.39	.35	.32	.39	.35	.32	.30
8	.48	.38	.33	.29	.47	.38	.32	.29	.37	.32	.28	.36	.32	.28	.35	.31	.28	.35	.31	.28	.27
9	.44	.35	.29	.25	.43	.35	.29	.25	.34	.29	.25	.33	.28	.25	.32	.28	.25	.32	.28	.25	.24
10	.41	.32	.26	.23	.40	.32	.26	.23	.31	.26	.23	.30	.26	.22	.30	.25	.22	.30	.25	.22	.21

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 110.0
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST FACTORS HAVE NOT BEEN APPLIED.