



# LIGHTING SCIENCES CANADA LTD.

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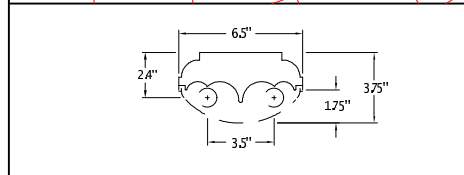
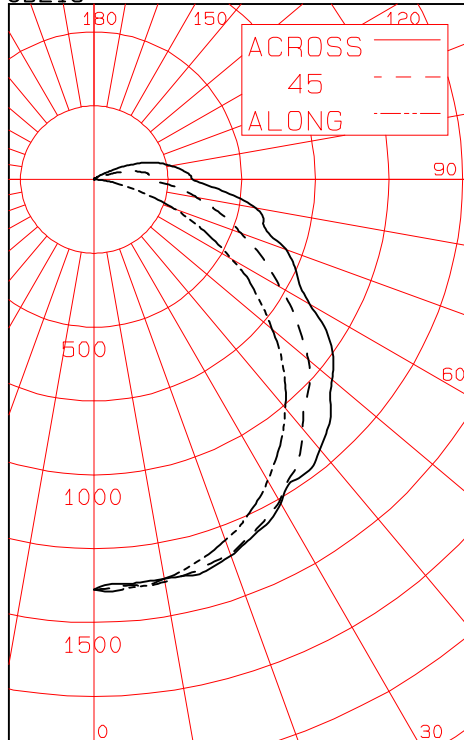
CERTIFIED TEST REPORT NO. LSC B219  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI 5' BS105 IP66 RATED LUMINAIRE CAT. NO. BS10560T8240AC/120V  
WITH SPECULAR REFLECTOR AND CLEAR WRAP LENS  
TWO SYLVANIA OCTRON/XP/ECO 40W T8 FLUORESCENT LAMPS. LUMEN RATING = 3650 LMS.  
ONE ULTRASAVE 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. PR 240120MB-P

## CANDLEPOWER SUMMARY

## OUTPUT LUMENS

CB219



ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	1388	1388	1388	1388	1388	
5	1387	1386	1379	1386	1374	134
15	1342	1348	1369	1389	1382	385
25	1245	1262	1305	1322	1316	596
35	1100	1135	1193	1203	1227	735
45	909	958	1024	1112	1136	791
55	668	726	840	946	982	744
65	411	498	631	724	758	605
75	171	266	442	566	595	441
85	23	104	273	400	436	278
90	0	61	194	308	334	
95	0	48	187	277	309	180
105	0	9	105	193	222	109
115	0	0	25	73	98	38
125	0	0	4	24	29	9
135	0	0	0	0	2	1
145	0	0	0	0	3	1
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	1115	15.27	22.09
0-40	1849	25.34	36.64
0-60	3384	46.37	67.04
0-90	4709	64.51	93.28
40-90	2859	39.17	56.63
60-90	1324	18.14	26.23
90-180	339	4.65	6.72
0-180	5048	69.16	100.00

\*\* EFFICIENCY = 69.2% \*\*

## LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.4

SC (ALONG) = 1.3, SC (ACROSS) = 1.4

ANGLE	ALONG	45	ACROSS
45	4924	4731	5006
55	4405	4454	4894
65	3607	4066	4500
75	2352	3774	4539
85	764	3626	4852

CERTIFIED BY:

*Charles Sison*

DATE:

MAY 24, 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	1388	1388	1388	1388	1388	1388	
5	1387	1386	1379	1386	1374	1383	134
10	1372	1370	1383	1387	1373	1378	
15	1342	1348	1369	1389	1382	1367	385
20	1300	1314	1349	1366	1356	1339	
25	1245	1262	1305	1322	1316	1292	596
30	1178	1207	1258	1276	1266	1241	
35	1100	1135	1193	1203	1227	1174	735
40	1009	1047	1100	1188	1192	1109	
45	909	958	1024	1112	1136	1029	791
50	789	841	947	1029	1054	935	
55	668	726	840	946	982	834	744
60	539	598	728	861	844	720	
65	411	498	631	724	758	609	605
70	289	374	530	644	692	510	
75	171	266	442	566	595	414	441
80	80	173	355	507	556	338	
85	23	104	273	400	436	252	278
90	0	61	194	308	334	182	
95	0	48	187	277	309	167	180
100	0	20	153	239	264	136	
105	0	9	105	193	222	104	109
110	0	5	53	134	162	68	
115	0	0	25	73	98	37	38
120	0	0	11	30	48	16	
125	0	0	4	24	29	11	9
130	0	0	1	3	13	3	
135	0	0	0	0	2	1	1
140	0	0	0	0	2	1	
145	0	0	0	0	3	1	1
150	0	0	0	0	4	1	
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	5469 ( 1596)	5469 ( 1596)	5469 ( 1596)	5469 ( 1596)		5469 ( 1596)
30	5271 ( 1538)	5126 ( 1496)	5117 ( 1493)	5060 ( 1477)		4988 ( 1455)
40	5070 ( 1479)	4870 ( 1421)	4814 ( 1405)	5029 ( 1468)		5002 ( 1460)
45	4924 ( 1437)	4734 ( 1381)	4731 ( 1380)	4934 ( 1440)		5006 ( 1461)
50	4675 ( 1364)	4482 ( 1308)	4641 ( 1354)	4829 ( 1409)		4893 ( 1428)
55	4405 ( 1285)	4218 ( 1231)	4454 ( 1300)	4754 ( 1387)		4894 ( 1428)
60	4046 ( 1180)	3858 ( 1126)	4209 ( 1228)	4694 ( 1370)		4539 ( 1324)
65	3607 ( 1052)	3636 ( 1061)	4066 ( 1186)	4351 ( 1270)		4500 ( 1313)
70	3087 ( 901)	3190 ( 931)	3877 ( 1131)	4341 ( 1267)		4584 ( 1338)
75	2352 ( 686)	2735 ( 798)	3774 ( 1101)	4394 ( 1282)		4539 ( 1324)
80	1563 ( 456)	2271 ( 663)	3678 ( 1073)	4655 ( 1358)		4996 ( 1458)
85	764 ( 223)	1907 ( 556)	3626 ( 1058)	4578 ( 1336)		4852 ( 1416)

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	.81	.81	.81	.81	.79	.79	.79	.79	.74	.74	.74	.70	.70	.70	.66	.66	.66	.66	.66	.66	.65
1	.73	.70	.67	.64	.71	.68	.65	.62	.64	.61	.59	.60	.58	.57	.57	.56	.54	.54	.54	.54	.52
2	.66	.61	.56	.51	.64	.59	.54	.50	.55	.52	.48	.53	.50	.47	.50	.47	.45	.45	.45	.45	.43
3	.61	.53	.47	.43	.59	.52	.46	.42	.49	.45	.41	.46	.43	.39	.44	.41	.38	.38	.38	.38	.37
4	.55	.47	.41	.36	.54	.46	.40	.36	.43	.38	.35	.41	.37	.34	.39	.36	.33	.33	.33	.33	.31
5	.51	.41	.35	.30	.49	.40	.34	.30	.38	.33	.29	.36	.32	.28	.35	.31	.28	.28	.28	.28	.26
6	.46	.37	.31	.26	.45	.36	.30	.26	.34	.29	.25	.33	.28	.25	.31	.27	.24	.24	.24	.24	.22
7	.43	.33	.27	.23	.41	.32	.27	.22	.31	.26	.22	.29	.25	.21	.28	.24	.21	.21	.21	.21	.19
8	.39	.30	.24	.19	.38	.29	.23	.19	.28	.22	.19	.26	.22	.18	.25	.21	.18	.18	.18	.18	.17
9	.36	.27	.21	.17	.35	.26	.21	.17	.25	.20	.16	.24	.19	.16	.23	.19	.15	.15	.15	.15	.14
10	.34	.24	.18	.15	.33	.24	.18	.15	.23	.18	.14	.22	.17	.14	.21	.17	.14	.14	.14	.14	.12

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
 LUMINAIRE INPUT WATTS = 84.5  
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST FACTORS HAVE NOT BEEN APPLIED.

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SINGLE LUMINAIRE PERFORMANCE

MOUNTING HEIGHT ABOVE WORK PLANE (FT)	INITIAL FC AT NADIR -FCN* (FC)	.1*FCN (FC)	10% LIGHTED DIAMETER* (FT)	.5*FCN (FC)	50% LIGHTED DIAMETER* (FT)
5	55.5	5.6	15.0	27.8	6.6
7	28.3	2.8	21.0	14.2	9.2
9	17.1	1.7	27.0	8.6	11.9
11	11.5	1.1	33.0	5.7	14.5
13	8.2	.8	39.0	4.1	17.1
15	6.2	.6	45.0	3.1	19.8
17	4.8	.5	51.0	2.4	22.4
19	3.8	.4	57.0	1.9	25.1

10% CONE ANGLE: 112.6 DEGREES  
50% CONE ANGLE: 66.8 DEGREES