



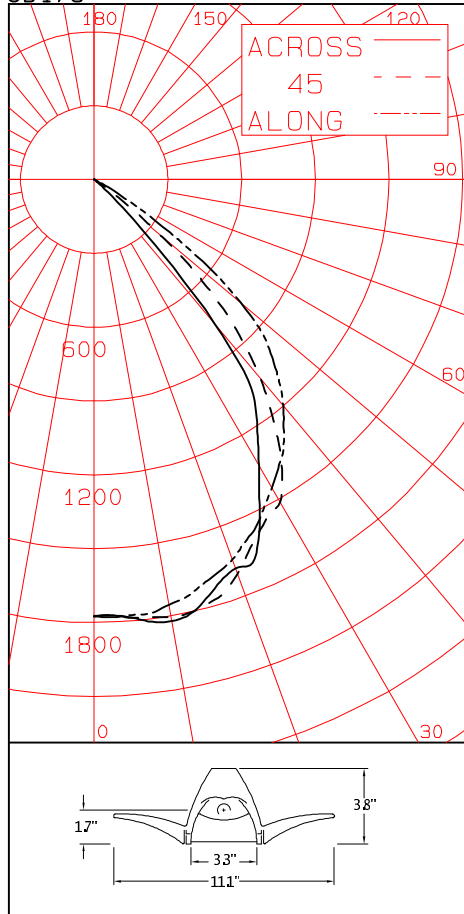
LIGHTING SCIENCES CANADA LTD.

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CERTIFIED TEST REPORT NO. LSC D179
COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI MIRA BS600 4' INDOOR FLUORESCENT LUMINAIRE CAT. NO. MIRA BS600
WITH SPECULAR REFLECTOR AND 24-CELL SPECULAR LOUVER
ONE PENTRON FP54/841/HO/ECO 4100K 54W T5 FLUOR. LAMP. LUMEN RATING = 4450 LMS.
ONE UNIVERSAL ACCUSTART 120-277V 1 OR 2-LAMP ELECTRONIC BALLAST NO. B254PUNV-D

CD179



CANDLEPOWER SUMMARY

OUTPUT
LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	1775	1775	1775	1775	1775	
5	1776	1772	1788	1797	1787	174
10	1754	1761	1804	1829	1823	
15	1703	1727	1786	1797	1763	494
20	1644	1674	1705	1691	1682	
25	1558	1593	1584	1648	1589	728
30	1447	1480	1513	1402	1341	
35	1342	1343	1312	1196	1149	785
40	1198	1189	1052	903	761	
45	1026	999	742	357	197	524
50	778	684	361	52	8	
55	376	343	62	7	3	151
60	79	95	8	0	3	
65	6	5	0	2	0	8
70	0	0	0	0	0	
75	0	0	0	0	0	0
80	0	0	0	0	0	
85	0	0	0	0	0	0
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	1395	31.37	48.74
0-40	2180	49.01	76.16
0-60	2855	64.17	99.72
0-90	2863	64.35	100.00
40-90	682	15.34	23.84
60-90	7	.18	.28
90-180	0	.00	.00
0-180	2863	64.35	100.00

** EFFICIENCY = 64.4% **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = 1.1

SC (ALONG) = 1.2, SC (ACROSS) = 1.1

ANGLE	ALONG	45	ACROSS
45	15460	11219	2974
55	6973	1151	64
65	161	0	9
75	0	0	0
85	0	0	0

CERTIFIED BY:

Charles Lison

DATE:

MAR 31, 2008

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	1775	1775	1775	1775	1775	1775	
2.5	1781	1766	1773	1787	1773	1775	
5.0	1776	1772	1788	1797	1787	1785	174
7.5	1778	1765	1793	1829	1813	1796	
10.0	1754	1761	1804	1829	1823	1796	
12.5	1736	1738	1803	1837	1809	1788	
15.0	1703	1727	1786	1797	1763	1761	494
17.5	1675	1703	1759	1737	1712	1723	
20.0	1644	1674	1705	1691	1682	1683	
22.5	1598	1644	1640	1664	1686	1648	
25.0	1558	1593	1584	1648	1589	1600	728
27.5	1499	1547	1538	1524	1455	1522	
30.0	1447	1480	1513	1402	1341	1447	
32.5	1394	1416	1424	1292	1238	1362	
35.0	1342	1343	1312	1196	1149	1274	785
37.5	1268	1263	1180	1077	1030	1167	
40.0	1198	1189	1052	903	761	1031	
42.5	1115	1107	900	636	417	852	
45.0	1026	999	742	357	197	677	524
47.5	931	869	562	162	56	522	
50.0	778	684	361	52	8	373	
52.5	595	498	174	22	4	248	
55.0	376	343	62	7	3	150	151
57.5	203	207	24	8	2	85	
60.0	79	95	8	0	3	36	
62.5	27	26	4	5	0	12	
65.0	6	5	0	2	0	3	8
67.5	0	0	0	1	0	0	
70.0	0	0	0	0	0	0	
72.5	0	0	0	0	0	0	
75.0	0	0	0	0	0	0	0
77.5	0	0	0	0	0	0	
80.0	0	0	0	0	0	0	
82.5	0	0	0	0	0	0	
85.0	0	0	0	0	0	0	0
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			
0	18899 (5516)		18899 (5516)		18899 (5516)		18899 (5516)	
30	17800 (5195)		18248 (5325)		18661 (5446)		17277 (5042)	16496 (4814)
40	16650 (4859)		16581 (4839)		14643 (4274)		12592 (3675)	10587 (3089)
45	15460 (4512)		15072 (4399)		11219 (3274)		5387 (1572)	2974 (868)
50	12892 (3762)		11381 (3321)		5985 (1746)		866 (252)	126 (36)
55	6973 (2035)		6384 (1863)		1151 (335)		132 (38)	64 (18)
60	1679 (490)		2032 (593)		170 (49)		7 (2)	65 (19)
65	161 (47)		130 (38)		0 (0)		46 (13)	9 (2)
70	0 (0)		0 (0)		0 (0)		0 (0)	0 (0)
75	0 (0)		0 (0)		0 (0)		5 (1)	0 (0)
80	0 (0)		0 (0)		0 (0)		0 (0)	0 (0)
85	0 (0)		0 (0)		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	.77	.77	.77	.77	.75	.75	.75	.75	.72	.72	.72	.68	.68	.68	.66	.66	.66	.66	.66	.66	.64
1	.73	.71	.69	.68	.71	.70	.68	.66	.67	.66	.64	.64	.63	.62	.62	.61	.61	.62	.61	.61	.60
2	.69	.65	.63	.60	.67	.64	.62	.60	.62	.60	.58	.60	.59	.57	.58	.57	.56	.58	.57	.56	.55
3	.65	.60	.57	.54	.63	.59	.56	.54	.58	.55	.53	.56	.54	.52	.55	.53	.51	.55	.53	.51	.50
4	.61	.55	.52	.49	.60	.55	.51	.48	.53	.50	.48	.52	.49	.47	.51	.48	.47	.51	.48	.47	.45
5	.57	.51	.47	.44	.56	.50	.46	.43	.49	.46	.43	.48	.45	.43	.47	.44	.42	.47	.44	.42	.41
6	.54	.47	.43	.40	.52	.47	.42	.40	.46	.42	.39	.45	.41	.39	.44	.41	.39	.44	.41	.39	.38
7	.50	.43	.39	.36	.49	.43	.39	.36	.42	.38	.36	.41	.38	.35	.40	.37	.35	.40	.37	.35	.34
8	.47	.39	.35	.32	.46	.39	.35	.32	.38	.34	.32	.38	.34	.32	.37	.34	.31	.37	.34	.31	.30
9	.43	.36	.32	.28	.42	.36	.31	.28	.35	.31	.28	.34	.31	.28	.34	.30	.28	.34	.30	.28	.27
10	.40	.33	.28	.26	.40	.33	.28	.25	.32	.28	.25	.31	.28	.25	.31	.28	.25	.31	.28	.25	.24

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRE INPUT WATTS = 53.9
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST FACTORS HAVE NOT BEEN APPLIED.