



LIGHTING SCIENCES CANADA LTD.

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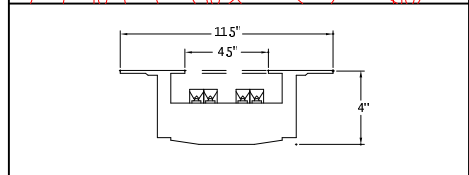
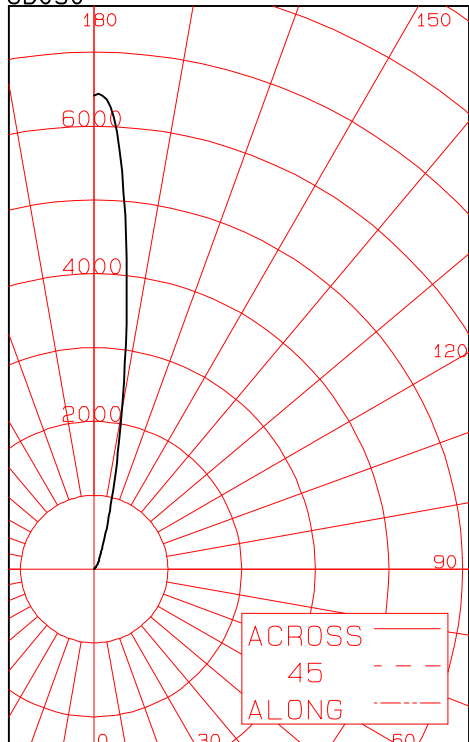
CERTIFIED TEST REPORT NO. LSC D090
COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI IN-GROUND GIRA SOLE IG LED LUMINAIRE
WITH CLEAR LENS

18 CREE XRE 1W WHITE LEDS WITH LENS OPTICS. LUMEN OUTPUT = 737 LMS.
CUI SWITCH-MODE 100-240 VAC TO 24 VDC POWER SUPPLY MODEL NO. 3A-621DN24

CANDLEPOWER SUMMARY

CD090



ANGLE	MEAN CP	LUMENS
180	6416	
175	4822	368
170	2120	
165	818	246
160	327	
155	165	84
150	131	
145	46	35
140	15	
135	3	4
130	1	
125	0	0
120	0	
115	0	0
110	0	
105	0	0
100	0	
95	0	0
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
180-150	698	94.72	94.72
180-140	733	99.43	99.43
180-120	737	100.00	100.00
180-90	737	100.00	100.00
140-90	4	.57	.57
120-90	0	.00	.00
0-90	0	.00	.00
0-180	737	100.00	100.00

** EFFICIENCY =100.0% **

CERTIFIED BY:

Charles Sison

DATE:

JAN 23, 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	CANDLEPOWER	LUMENS
180.0	6416	
177.5	6122	
175.0	4822	368
172.5	3352	
170.0	2120	
167.5	1335	
165.0	818	246
162.5	520	
160.0	327	
157.5	219	
155.0	165	84
152.5	143	
150.0	131	
147.5	91	
145.0	46	35
142.5	24	
140.0	15	
137.5	8	
135.0	3	4
132.5	3	
130.0	1	
127.5	0	
125.0	0	0
122.5	0	
120.0	0	
117.5	0	
115.0	0	0
112.5	0	
110.0	0	
107.5	0	
105.0	0	0
102.5	0	
100.0	0	
97.5	0	
95.0	0	0
92.5	0	
90.0	0	

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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	.95	.95	.95	.95	.81	.81	.81	.81	.56	.56	.56	.32	.32	.32	.10	.10	.10	.10	.10	.10	.00
1	.87	.83	.79	.76	.74	.71	.68	.64	.48	.47	.45	.28	.27	.26	.09	.09	.08	.08	.08	.08	.00
2	.79	.72	.66	.61	.67	.61	.57	.53	.42	.39	.37	.24	.23	.22	.08	.07	.07	.07	.07	.07	.00
3	.72	.63	.57	.51	.61	.54	.49	.44	.37	.34	.31	.21	.20	.18	.07	.06	.06	.06	.06	.06	.00
4	.65	.56	.48	.43	.56	.48	.42	.37	.33	.29	.26	.19	.17	.15	.06	.06	.05	.05	.05	.05	.00
5	.60	.48	.42	.36	.51	.42	.36	.32	.29	.25	.22	.17	.15	.13	.05	.05	.04	.04	.04	.04	.00
6	.55	.44	.36	.31	.47	.38	.31	.27	.26	.22	.19	.15	.13	.11	.05	.04	.04	.04	.04	.04	.00
7	.50	.39	.32	.27	.43	.34	.28	.23	.23	.19	.16	.13	.11	.10	.04	.04	.03	.03	.03	.03	.00
8	.46	.35	.28	.23	.39	.30	.24	.20	.21	.17	.14	.12	.10	.08	.04	.03	.03	.03	.03	.03	.00
9	.43	.32	.25	.20	.36	.27	.22	.18	.19	.15	.12	.11	.09	.07	.04	.03	.02	.02	.02	.02	.00
10	.40	.29	.22	.18	.34	.25	.19	.15	.17	.14	.11	.10	.08	.07	.03	.03	.02	.02	.02	.02	.00

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
 LUMINAIRE INPUT WATTS = 28.9
 LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 ABSOLUTE PHOTOMETRY TAKEN. BALLAST FACTORS HAVE BEEN APPLIED.