

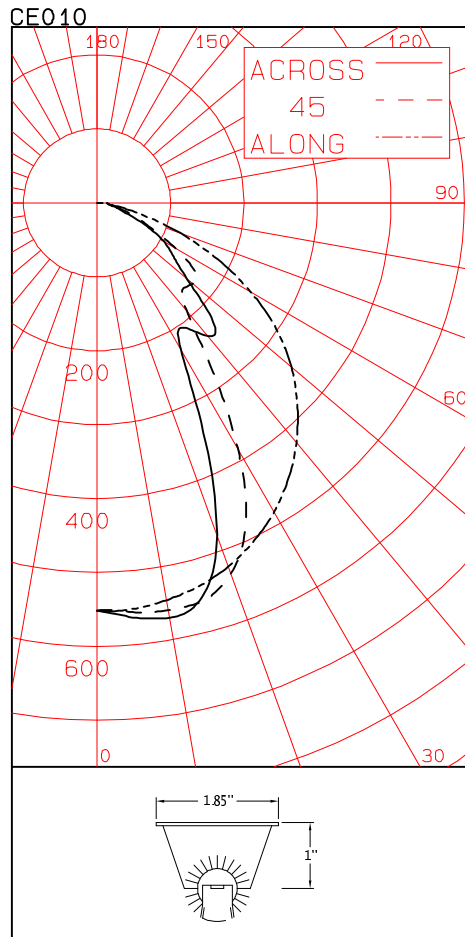


# LIGHTING SCIENCES CANADA LTD.

160 Frobisher Drive, Unit 5, Waterloo, Ontario, Canada N2V 2B1  
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CERTIFIED TEST REPORT NO. LSC E010  
COMPUTED BY LSC PROGRAM \*\*TEST-LITE\*\*

BEGHELLI SPYDER MINI 4' LED LUMINAIRE CAT. NO. SMLED INDOOR SERIES  
WITH LINEAR LENS  
48 WHITE 6500K LEDS. LUMEN OUTPUT = 1097 LMS.  
ONE CUI 100-240V POWER SUPPLY MODEL NO. 3A-621DN24



## CANDLEPOWER SUMMARY

OUTPUT  
LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	551	551	551	551	551	
5	552	550	556	559	563	54
10	546	551	560	564	570	
15	537	545	558	554	552	154
20	524	535	534	497	478	
25	505	519	479	382	343	205
30	482	491	383	255	228	
35	455	448	269	197	206	197
40	423	387	189	209	235	
45	386	308	165	223	220	190
50	345	223	170	179	160	
55	298	152	164	130	127	147
60	242	108	124	104	105	
65	182	85	83	78	75	93
70	121	66	56	48	44	
75	67	43	35	31	29	42
80	28	23	21	20	19	
85	8	11	14	15	15	15
90	0	5	10	13	13	

## ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	412	37.58	37.58
0-40	609	55.56	55.56
0-60	946	86.29	86.29
0-90	1097	100.00	100.00
40-90	487	44.44	44.44
60-90	150	13.71	13.71
90-180	0	.00	.00
0-180	1097	100.00	100.00

\*\* EFFICACY = 33.6 LMS/WATT \*\*

LUMINANCE SUMMARY-CD. / SQ. M.

ANGLE	ALONG	45	ACROSS
45	35221	15165	20185
55	33532	18484	14370
65	27796	12735	11518
75	16634	8626	7320
85	5703	10276	11256

CERTIFIED BY: *Charles Lison* S/MH = .9  
(ACROSS) = .9

CERTIFIED BY:

DATE:  
SEP 16, 2009

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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160 FROBISHER DRIVE, UNIT 5  
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CANDLEPOWER DATA  
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
.0	551	551	551	551	551	551	54
2.5	553	550	551	553	556	552	
5.0	552	550	556	559	563	556	
7.5	549	550	558	562	567	557	
10.0	546	551	560	564	570	558	
12.5	542	548	560	565	567	557	154
15.0	537	545	558	554	552	550	
17.5	531	539	548	533	524	537	
20.0	524	535	534	497	478	516	
22.5	514	528	511	445	414	487	
25.0	505	519	479	382	343	451	205
27.5	494	508	436	314	276	411	
30.0	482	491	383	255	228	371	
32.5	469	472	326	215	206	338	
35.0	455	448	269	197	206	311	
37.5	440	420	222	199	219	293	197
40.0	423	387	189	209	235	278	
42.5	404	350	171	221	239	266	
45.0	386	308	165	223	220	250	
47.5	366	265	167	207	188	229	
50.0	345	223	170	179	160	206	190
52.5	322	184	171	151	140	184	
55.0	298	152	164	130	127	164	
57.5	271	126	146	115	117	145	
60.0	242	108	124	104	105	127	
62.5	212	95	101	92	92	110	93
65.0	182	85	83	78	75	94	
67.5	151	76	69	63	58	78	
70.0	121	66	56	48	44	63	
72.5	93	54	45	38	35	50	
75.0	67	43	35	31	29	39	42
77.5	45	32	27	25	24	29	
80.0	28	23	21	20	19	22	
82.5	16	17	17	17	17	17	
85.0	8	11	14	15	15	13	
87.5	2	8	12	14	14	10	15
90.0	0	5	10	13	13	9	

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AVERAGE LUMINANCE DATA

ANGLE	ALONG	CD. / SQ. M.		(FOOTLAMBERTS)		ACROSS
		22.5	45	67.5		
0	35615 ( 10394)	35615 ( 10394)	35615 ( 10394)	35615 ( 10394)		35615 ( 10394)
30	35978 ( 10500)	36737 ( 10722)	28603 ( 8348)	19078 ( 5568)		17031 ( 4970)
40	35624 ( 10397)	32703 ( 9544)	15955 ( 4656)	17653 ( 5152)		19833 ( 5788)
45	35221 ( 10279)	28171 ( 8222)	15165 ( 4426)	20435 ( 5964)		20185 ( 5891)
50	34712 ( 10131)	22493 ( 6564)	17077 ( 4984)	18027 ( 5261)		16065 ( 4689)
55	33532 ( 9786)	17092 ( 4988)	18484 ( 5394)	14634 ( 4271)		14370 ( 4194)
60	31239 ( 9117)	13991 ( 4083)	16022 ( 4676)	13488 ( 3936)		13607 ( 3971)
65	27796 ( 8112)	13036 ( 3804)	12735 ( 3716)	12005 ( 3504)		11518 ( 3361)
70	22898 ( 6683)	12455 ( 3635)	10655 ( 3109)	9141 ( 2668)		8336 ( 2433)
75	16634 ( 4855)	10797 ( 3151)	8626 ( 2517)	7655 ( 2234)		7320 ( 2136)
80	10559 ( 3082)	8736 ( 2549)	7746 ( 2260)	7475 ( 2181)		7155 ( 2088)
85	5703 ( 1664)	8545 ( 2494)	10276 ( 2999)	11176 ( 3262)		11256 ( 3285)

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

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# COEFFICIENTS OF UTILIZATION

## ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC	80				70				50				30				10				0
WALL	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00			
1	1.11	1.07	1.04	1.00	1.08	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88			
2	1.03	.97	.91	.86	1.01	.95	.90	.85	.91	.87	.83	.88	.85	.82	.85	.82	.80	.78			
3	.96	.87	.80	.75	.93	.86	.79	.75	.83	.78	.73	.80	.76	.72	.78	.74	.71	.69			
4	.89	.79	.72	.67	.87	.78	.72	.66	.76	.70	.65	.74	.68	.64	.72	.67	.64	.62			
5	.83	.72	.64	.59	.81	.71	.64	.58	.69	.63	.58	.67	.62	.57	.65	.61	.57	.55			
6	.77	.66	.58	.53	.75	.65	.57	.52	.63	.57	.52	.61	.56	.51	.60	.55	.51	.49			
7	.72	.60	.52	.47	.70	.59	.52	.46	.57	.51	.46	.56	.50	.46	.55	.50	.45	.44			
8	.67	.55	.47	.42	.66	.54	.47	.42	.53	.46	.42	.52	.46	.41	.51	.45	.41	.39			
9	.63	.51	.43	.38	.61	.50	.43	.38	.49	.42	.38	.48	.42	.37	.47	.41	.37	.35			
10	.58	.46	.39	.34	.57	.46	.39	.34	.45	.38	.34	.44	.38	.34	.43	.38	.34	.32			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES  
LUMINAIRE INPUT WATTS = 32.6  
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
ABSOLUTE PHOTOMETRY TAKEN.

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SUPPLEMENTARY MEASUREMENTS AS PER IES-LM-79-08

STABILIZATION TIME: 1 HOUR

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 120.0 VRMS  
INPUT CURRENT: 0.489 ARMS  
INPUT WATTAGE: 32.63  
POWER FACTOR: 0.556

CHROMATICITY MEASUREMENTS

CIE 1931-x: 0.314  
CIE 1931-y: 0.327  
CORRELATED COLOUR TEMPERATURE: 6452 DEG. K  
COLOUR RENDERING INDEX: 73.9%