



LIGHTING SCIENCES CANADA LTD.

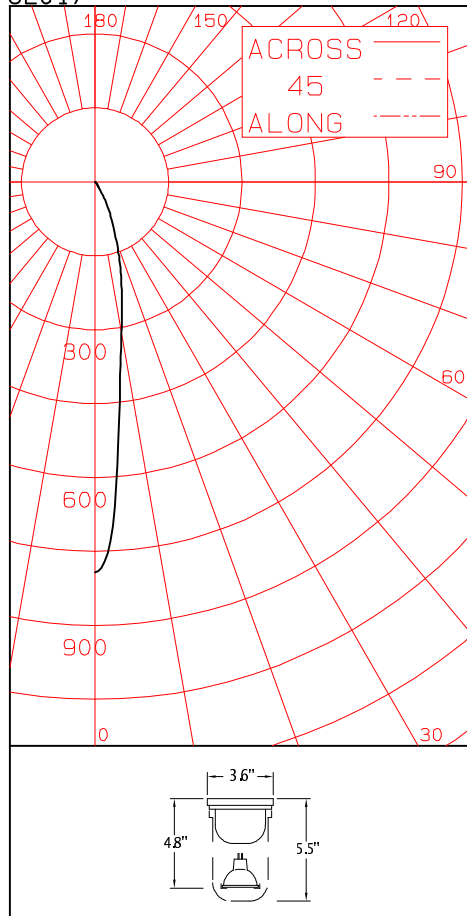
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CERTIFIED TEST REPORT NO. LSC E017
COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI FORTEZZA EMERGENCY LIGHT CAT. NO. FTZ EMERGENCY LIGHT
WITH CLEAR LENS
ONE 12V 3W MR16 LED LAMP. LUMEN OUTPUT = 151 LMS.

CANDLEPOWER SUMMARY

CE017



ANGLE	MEAN CP	LUMENS
0	792	
5	539	44
10	312	
15	207	57
20	128	
25	72	34
30	34	
35	10	8
40	6	
45	4	3
50	3	
55	3	2
60	2	
65	2	2
70	1	
75	1	1
80	0	
85	0	0
90	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	134	89.28	89.28
0-40	143	94.68	94.68
0-60	148	98.45	98.45
0-90	151	100.00	100.00
40-90	8	5.32	5.32
60-90	2	1.55	1.55
90-180	0	.00	.00
0-180	151	100.00	100.00

** EFFICACY = 45.9 LMS/WATT **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = .3
SC = .3

ANGLE	MEAN CD/SQ M
45	5123
55	4120
65	3344
75	2034
85	328

CERTIFIED BY:

Charles Lison

DATE:
SEP 21, 2009

PREPARED FOR:

BEGHELLI CANADA INC.
MARKHAM, ONTARIO

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
.0	792	
2.5	731	
5.0	539	44
7.5	396	
10.0	312	
12.5	255	
15.0	207	57
17.5	167	
20.0	128	
22.5	95	
25.0	72	34
27.5	54	
30.0	34	
32.5	17	
35.0	10	8
37.5	7	
40.0	6	
42.5	5	
45.0	4	3
47.5	4	
50.0	3	
52.5	3	
55.0	3	2
57.5	2	
60.0	2	
62.5	2	
65.0	2	2
67.5	1	
70.0	1	
72.5	1	
75.0	1	1
77.5	0	
80.0	0	
82.5	0	
85.0	0	0
87.5	0	
90.0	0	

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AVERAGE LUMINANCE DATA

ANGLE	LUMINANCE	
0	695062	(202864)
30	34404	(10041)
40	6415	(1872)
45	5123	(1495)
50	4594	(1340)
55	4120	(1202)
60	3751	(1094)
65	3344	(976)
70	2667	(778)
75	2034	(593)
80	1346	(392)
85	328	(95)

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	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00		
1	1.15	1.13	1.11	1.09	1.13	1.11	1.09	1.08	1.07	1.06	1.04	1.03	1.02	1.01	1.00	.99	.98		.97		
2	1.11	1.08	1.05	1.03	1.09	1.06	1.04	1.01	1.03	1.01	.99	1.00	.99	.97	.98	.96	.95		.94		
3	1.08	1.04	1.00	.98	1.06	1.02	.99	.97	1.00	.98	.96	.98	.96	.94	.96	.94	.93		.91		
4	1.05	1.00	.97	.94	1.04	.99	.96	.93	.97	.94	.92	.95	.93	.91	.94	.92	.90		.89		
5	1.02	.97	.93	.90	1.01	.96	.92	.90	.94	.91	.89	.93	.90	.88	.91	.89	.87		.86		
6	1.00	.94	.90	.87	.99	.93	.90	.87	.92	.89	.86	.91	.88	.86	.90	.87	.85		.84		
7	.97	.91	.87	.85	.96	.91	.87	.84	.89	.86	.84	.88	.85	.83	.87	.85	.83		.82		
8	.95	.89	.85	.82	.94	.88	.84	.82	.87	.84	.82	.86	.83	.81	.85	.83	.81		.80		
9	.92	.86	.82	.80	.92	.86	.82	.80	.85	.82	.79	.84	.81	.79	.83	.81	.79		.78		
10	.90	.84	.80	.78	.89	.84	.80	.78	.83	.80	.77	.82	.79	.77	.82	.79	.77		.76		

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRE INPUT WATTS = 3.3
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 15 MINUTES

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 12.0 VDC
INPUT CURRENT: 0.274 ADC
INPUT WATTAGE: 3.29

CHROMATICITY MEASUREMENTS

CIE 1931-x: 0.318
CIE 1931-y: 0.332
CORRELATED COLOUR TEMPERATURE: 6226 DEG. K
COLOUR RENDERING INDEX: 78.5%