



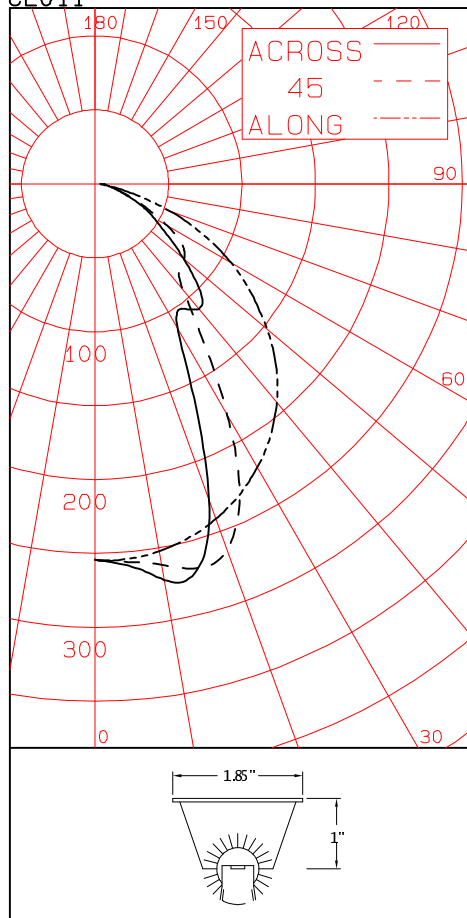
LIGHTING SCIENCES CANADA LTD.

160 Frobisher Drive, Unit 5, Waterloo, Ontario, Canada N2V 2B1
Tel: (519) 746-3140 Fax: (519) 746-3156 lsc@lightingsciences.ca

CERTIFIED TEST REPORT NO. LSC E011
COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI SPYDER MINI 2' LED LUMINAIRE CAT. NO. SMLED INDOOR SERIES
WITH LINEAR LENS
24 WHITE 6500K LEDS. LUMEN OUTPUT = 517 LMS.
ONE CUI 100-240V POWER SUPPLY MODEL NO. 3A-621DN24

CE011



CANDLEPOWER SUMMARY

OUTPUT
LUMENS

| ANGLE | ALONG | 22.5 | 45 | 67.5 | ACROSS | |
|-------|-------|------|-----|------|--------|----|
| 0 | 254 | 254 | 254 | 254 | 254 | |
| 5 | 255 | 255 | 257 | 257 | 259 | 25 |
| 10 | 252 | 254 | 262 | 268 | 272 | |
| 15 | 248 | 253 | 269 | 271 | 270 | 73 |
| 20 | 241 | 252 | 263 | 240 | 227 | |
| 25 | 232 | 250 | 233 | 178 | 160 | 98 |
| 30 | 221 | 242 | 180 | 123 | 112 | |
| 35 | 208 | 222 | 127 | 99 | 103 | 95 |
| 40 | 193 | 190 | 93 | 101 | 110 | |
| 45 | 174 | 147 | 81 | 101 | 101 | 89 |
| 50 | 153 | 103 | 79 | 84 | 79 | |
| 55 | 130 | 71 | 73 | 63 | 60 | 68 |
| 60 | 107 | 50 | 57 | 46 | 46 | |
| 65 | 82 | 39 | 38 | 35 | 35 | 42 |
| 70 | 55 | 29 | 25 | 24 | 23 | |
| 75 | 29 | 19 | 16 | 15 | 15 | 20 |
| 80 | 12 | 10 | 10 | 10 | 10 | |
| 85 | 3 | 5 | 6 | 7 | 7 | 7 |
| 90 | 0 | 2 | 4 | 6 | 6 | |

ZONAL LUMENS AND PERCENTAGES

| ZONE | LUMENS | % LAMP | %LUMINAIRE |
|--------|--------|--------|------------|
| 0-30 | 195 | 37.92 | 37.92 |
| 0-40 | 291 | 56.38 | 56.38 |
| 0-60 | 447 | 86.71 | 86.71 |
| 0-90 | 517 | 100.00 | 100.00 |
| 40-90 | 225 | 43.62 | 43.62 |
| 60-90 | 68 | 13.29 | 13.29 |
| 90-180 | 0 | .00 | .00 |
| 0-180 | 517 | 100.00 | 100.00 |

** EFFICACY = 31.4 LMS/WATT **

LUMINANCE SUMMARY-CD. / SQ. M.

S/MH = .9

SC (ALONG) = 1.3, SC (ACROSS) = .9

| ANGLE | ALONG | 45 | ACROSS |
|-------|-------|-------|--------|
| 45 | 31996 | 14887 | 18514 |
| 55 | 29463 | 16535 | 13551 |
| 65 | 25107 | 11704 | 10740 |
| 75 | 14604 | 8015 | 7314 |
| 85 | 4612 | 9279 | 10440 |

CERTIFIED BY:

Charles Lison

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.

LIGHTING SCIENCES CANADA LTD.
160 FROBISHER DRIVE, UNIT 5
WATERLOO, ONTARIO

CERTIFIED TEST REPORT NO. LSC E011
COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI SPYDER MINI 2' LED LUMINAIRE CAT. NO. SMLED INDOOR SERIES
WITH LINEAR LENS
24 WHITE 6500K LEDS. LUMEN OUTPUT = 517 LMS.
ONE CUI 100-240V POWER SUPPLY MODEL NO. 3A-621DN24

CANDLEPOWER DATA
IN 2.5 DEGREE STEPS

| ANGLE | PLANE | | | | | | OUTPUT LUMENS |
|-------|-------|------|-----|------|--------|---------|------------------|
| | ALONG | 22.5 | 45 | 67.5 | ACROSS | AVERAGE | |
| .0 | 254 | 254 | 254 | 254 | 254 | 254 | 25 |
| 2.5 | 255 | 254 | 255 | 255 | 256 | 255 | |
| 5.0 | 255 | 255 | 257 | 257 | 259 | 256 | |
| 7.5 | 254 | 255 | 259 | 261 | 265 | 259 | |
| 10.0 | 252 | 254 | 262 | 268 | 272 | 261 | |
| 12.5 | 250 | 254 | 266 | 273 | 276 | 264 | 73 |
| 15.0 | 248 | 253 | 269 | 271 | 270 | 263 | |
| 17.5 | 245 | 252 | 269 | 260 | 254 | 258 | |
| 20.0 | 241 | 252 | 263 | 240 | 227 | 247 | |
| 22.5 | 237 | 252 | 251 | 210 | 193 | 232 | |
| 25.0 | 232 | 250 | 233 | 178 | 160 | 214 | 98 |
| 27.5 | 227 | 247 | 208 | 147 | 131 | 195 | |
| 30.0 | 221 | 242 | 180 | 123 | 112 | 178 | |
| 32.5 | 215 | 234 | 153 | 107 | 104 | 163 | |
| 35.0 | 208 | 222 | 127 | 99 | 103 | 151 | |
| 37.5 | 201 | 207 | 107 | 98 | 107 | 142 | 95 |
| 40.0 | 193 | 190 | 93 | 101 | 110 | 134 | |
| 42.5 | 184 | 169 | 85 | 103 | 108 | 126 | |
| 45.0 | 174 | 147 | 81 | 101 | 101 | 117 | |
| 47.5 | 164 | 125 | 80 | 94 | 90 | 106 | |
| 50.0 | 153 | 103 | 79 | 84 | 79 | 96 | 68 |
| 52.5 | 141 | 86 | 77 | 73 | 69 | 85 | |
| 55.0 | 130 | 71 | 73 | 63 | 60 | 75 | |
| 57.5 | 119 | 59 | 66 | 54 | 52 | 66 | |
| 60.0 | 107 | 50 | 57 | 46 | 46 | 57 | |
| 62.5 | 95 | 44 | 47 | 40 | 41 | 50 | 42 |
| 65.0 | 82 | 39 | 38 | 35 | 35 | 43 | |
| 67.5 | 68 | 34 | 31 | 29 | 29 | 36 | |
| 70.0 | 55 | 29 | 25 | 24 | 23 | 29 | |
| 72.5 | 41 | 24 | 20 | 19 | 18 | 23 | |
| 75.0 | 29 | 19 | 16 | 15 | 15 | 18 | 20 |
| 77.5 | 19 | 14 | 12 | 12 | 12 | 14 | |
| 80.0 | 12 | 10 | 10 | 10 | 10 | 10 | |
| 82.5 | 7 | 7 | 8 | 8 | 8 | 8 | |
| 85.0 | 3 | 5 | 6 | 7 | 7 | 6 | |
| 87.5 | 1 | 3 | 5 | 6 | 6 | 5 | 7 |
| 90.0 | 0 | 2 | 4 | 6 | 6 | 4 | |

LIGHTING SCIENCES CANADA LTD.
 160 FROBISHER DRIVE, UNIT 5
 WATERLOO, ONTARIO

CERTIFIED TEST REPORT NO. LSC E011
 COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI SPYDER MINI 2' LED LUMINAIRE CAT. NO. SMLED INDOOR SERIES
 WITH LINEAR LENS
 24 WHITE 6500K LEDS. LUMEN OUTPUT = 517 LMS.
 ONE CUI 100-240V POWER SUPPLY MODEL NO. 3A-621DN24

AVERAGE LUMINANCE DATA

| ANGLE | ALONG | | CD. / SQ. M. | | (FOOTLAMBERTS) | | ACROSS | |
|-------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|--|
| | | | 22.5 | 45 | 67.5 | | | |
| 0 | 32994 (9629) | 32994 (9629) | 32994 (9629) | 32994 (9629) | 32994 (9629) | 32994 (9629) | 32994 (9629) | |
| 30 | 33137 (9671) | 36369 (10615) | 27035 (7890) | 18452 (5385) | 16781 (4898) | | | |
| 40 | 32651 (9529) | 32281 (9421) | 15761 (4600) | 17151 (5006) | 18679 (5452) | | | |
| 45 | 31996 (9338) | 27016 (7885) | 14887 (4345) | 18540 (5411) | 18514 (5403) | | | |
| 50 | 30870 (9009) | 20951 (6114) | 15973 (4661) | 16973 (4954) | 15911 (4644) | | | |
| 55 | 29463 (8599) | 16035 (4680) | 16535 (4826) | 14285 (4169) | 13551 (3955) | | | |
| 60 | 27777 (8107) | 13113 (3827) | 14691 (4287) | 12042 (3514) | 12000 (3502) | | | |
| 65 | 25107 (7327) | 11967 (3493) | 11704 (3416) | 10778 (3145) | 10740 (3134) | | | |
| 70 | 20730 (6050) | 11043 (3223) | 9509 (2775) | 9011 (2630) | 8684 (2534) | | | |
| 75 | 14604 (4262) | 9427 (2751) | 8015 (2339) | 7562 (2207) | 7314 (2134) | | | |
| 80 | 8933 (2607) | 7860 (2294) | 7299 (2130) | 7421 (2166) | 7364 (2149) | | | |
| 85 | 4612 (1346) | 7610 (2221) | 9279 (2708) | 10376 (3028) | 10440 (3047) | | | |

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES

LIGHTING SCIENCES CANADA LTD.
160 FROBISHER DRIVE, UNIT 5
WATERLOO, ONTARIO

CERTIFIED TEST REPORT NO. LSC E011
COMPUTED BY LSC PROGRAM **TEST-LITE**

BEGHELLI SPYDER MINI 2' LED LUMINAIRE CAT. NO. SMLED INDOOR SERIES
WITH LINEAR LENS
24 WHITE 6500K LEDS. LUMEN OUTPUT = 517 LMS.
ONE CUI 100-240V POWER SUPPLY MODEL NO. 3A-621DN24

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 | 1.11 | 1.07 | 1.04 | 1.01 | 1.08 | 1.05 | 1.02 | .99 | 1.01 | .98 | .96 | .97 | .95 | .93 | .93 | .92 | .90 | .88 | | | |
| 2 | 1.03 | .97 | .91 | .87 | 1.01 | .95 | .90 | .86 | .91 | .87 | .84 | .88 | .85 | .82 | .86 | .83 | .80 | .78 | | | |
| 3 | .96 | .87 | .81 | .75 | .94 | .86 | .80 | .75 | .83 | .78 | .74 | .80 | .76 | .72 | .78 | .74 | .71 | .69 | | | |
| 4 | .89 | .80 | .72 | .67 | .88 | .78 | .72 | .66 | .76 | .70 | .66 | .74 | .69 | .65 | .72 | .68 | .64 | .62 | | | |
| 5 | .83 | .72 | .65 | .59 | .81 | .71 | .64 | .59 | .69 | .63 | .58 | .67 | .62 | .58 | .66 | .61 | .57 | .55 | | | |
| 6 | .78 | .66 | .58 | .53 | .76 | .65 | .58 | .53 | .63 | .57 | .52 | .62 | .56 | .52 | .60 | .55 | .51 | .50 | | | |
| 7 | .72 | .60 | .52 | .47 | .70 | .59 | .52 | .47 | .58 | .51 | .46 | .56 | .50 | .46 | .55 | .50 | .46 | .44 | | | |
| 8 | .67 | .55 | .48 | .42 | .66 | .54 | .47 | .42 | .53 | .47 | .42 | .52 | .46 | .42 | .51 | .46 | .41 | .40 | | | |
| 9 | .63 | .51 | .43 | .38 | .61 | .50 | .43 | .38 | .49 | .42 | .38 | .48 | .42 | .38 | .47 | .41 | .37 | .36 | | | |
| 10 | .59 | .47 | .39 | .35 | .58 | .46 | .39 | .34 | .45 | .39 | .34 | .44 | .38 | .34 | .44 | .38 | .34 | .32 | | | |

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRE INPUT WATTS = 16.4
LABORATORY RESULT MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
ABSOLUTE PHOTOMETRY TAKEN.

LIGHTING SCIENCES CANADA LTD.
160 FROBISHER DRIVE, UNIT 5
WATERLOO, ONTARIO

CERTIFIED TEST REPORT NO. LSC E011

BEGHELLI SPYDER MINI 2' LED LUMINAIRE CAT. NO. SMLED INDOOR SERIES
WITH LINEAR LENS
24 WHITE 6500K LEDS. LUMEN OUTPUT = 517 LMS.
ONE CUI 100-240V POWER SUPPLY MODEL NO. 3A-621DN24

SUPPLEMENTARY MEASUREMENTS AS PER IES-LM-79-08

STABILIZATION TIME: 1 HOUR

ELECTRICAL CONSUMPTION

INPUT VOLTAGE: 120.0 VRMS
INPUT CURRENT: 0.253 ARMS
INPUT WATTAGE: 16.43
POWER FACTOR: 0.541

CHROMATICITY MEASUREMENTS

CIE 1931-x: 0.320
CIE 1931-y: 0.338
CORRELATED COLOUR TEMPERATURE: 6073 DEG. K
COLOUR RENDERING INDEX: 77.8%