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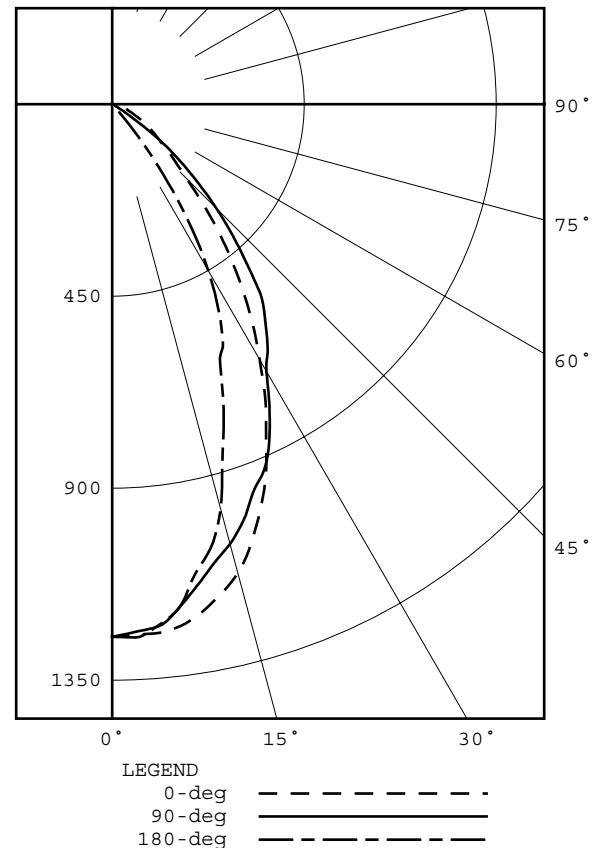
PREPARED FOR: LITELAB CORPORATION

CATALOG NUMBER: A68-L1800-9TS-A-9230 (FINISH)

| CANDELA DISTRIBUTION | | | | | | FLUX |
|----------------------|------|------|------|-------|-------|------|
| | 0.0 | 45.0 | 90.0 | 135.0 | 180.0 | |
| 0 | 1248 | 1248 | 1248 | 1248 | 1248 | |
| 5 | 1244 | 1242 | 1229 | 1226 | 1227 | 115 |
| 15 | 1138 | 1108 | 1067 | 1007 | 982 | 295 |
| 25 | 853 | 916 | 871 | 631 | 614 | 362 |
| 35 | 535 | 652 | 627 | 417 | 246 | 321 |
| 45 | 249 | 364 | 346 | 33 | 0 | 179 |
| 55 | 122 | 189 | 79 | 1 | 0 | 76 |
| 65 | 56 | 73 | 8 | 0 | 0 | 28 |
| 75 | 24 | 21 | 2 | 0 | 0 | 10 |
| 85 | 10 | 7 | 0 | 0 | 0 | 3 |
| 90 | 6 | 4 | 0 | 0 | 0 | |
| 95 | 4 | 2 | 0 | 0 | 0 | 1 |
| 105 | 2 | 1 | 0 | 0 | 0 | 0 |
| 115 | 1 | 0 | 0 | 0 | 0 | 0 |
| 125 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 | 0 | 0 | 0 | 0 | 0 | 0 |

| ZONAL LUMEN ZONE | SUMMARY LUMENS | %FIXT |
|------------------|----------------|-------|
| 0- 30 | 773 | 55.5 |
| 0- 40 | 1094 | 78.6 |
| 0- 60 | 1350 | 96.9 |
| 0- 90 | 1391 | 99.9 |
| 90-120 | 2 | 0.1 |
| 90-130 | 2 | 0.1 |
| 90-150 | 2 | 0.1 |
| 90-180 | 2 | 0.1 |
| 0-180 | 1392 | 100.0 |

EFFICACY = 66.0 lm/W
CIE TYPE - DIRECT
PLANE : 0-DEG 90-DEG 180-DEG
SPACING CRITERIA : 0.95 0.96 0.74
BEAM ANGLE (50%) : 56.5 X 70.1 DEGREES
FIELD ANGLE (10%) : 92.7 X 106.8 DEGREES





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CANDELA DISTRIBUTION
LATERAL ANGLE

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 | 112.5 | 135.0 | 157.5 | 180.0 |
|-------|------|------|------|------|------|-------|-------|-------|-------|
| 0.0 | 1248 | 1248 | 1248 | 1248 | 1248 | 1248 | 1248 | 1248 | 1248 |
| 5.0 | 1244 | 1247 | 1242 | 1232 | 1229 | 1221 | 1226 | 1221 | 1227 |
| 10.0 | 1209 | 1199 | 1183 | 1169 | 1146 | 1157 | 1148 | 1129 | 1118 |
| 15.0 | 1138 | 1129 | 1108 | 1096 | 1067 | 1041 | 1007 | 984 | 982 |
| 20.0 | 1014 | 1010 | 1029 | 1003 | 967 | 926 | 821 | 764 | 764 |
| 25.0 | 853 | 889 | 916 | 922 | 871 | 751 | 631 | 617 | 614 |
| 30.0 | 691 | 725 | 789 | 810 | 723 | 604 | 532 | 486 | 450 |
| 35.0 | 535 | 580 | 652 | 674 | 627 | 524 | 417 | 308 | 246 |
| 40.0 | 384 | 426 | 501 | 556 | 495 | 404 | 223 | 79 | 60 |
| 45.0 | 249 | 296 | 364 | 407 | 346 | 242 | 33 | 1 | 0 |
| 50.0 | 170 | 201 | 265 | 267 | 208 | 47 | 1 | 0 | 0 |
| 55.0 | 122 | 151 | 189 | 170 | 79 | 5 | 1 | 0 | 0 |
| 60.0 | 87 | 102 | 123 | 96 | 16 | 2 | 0 | 0 | 0 |
| 65.0 | 56 | 63 | 73 | 38 | 8 | 1 | 0 | 0 | 0 |
| 70.0 | 37 | 39 | 39 | 18 | 4 | 1 | 0 | 0 | 0 |
| 75.0 | 24 | 25 | 21 | 10 | 2 | 0 | 0 | 0 | 0 |
| 80.0 | 16 | 15 | 12 | 5 | 1 | 0 | 0 | 0 | 0 |
| 85.0 | 10 | 9 | 7 | 3 | 0 | 0 | 0 | 0 | 0 |
| 90.0 | 6 | 6 | 4 | 1 | 0 | 0 | 0 | 0 | 0 |
| 95.0 | 4 | 4 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| 100.0 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105.0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110.0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115.0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



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5-DEGREE
ZONAL LUMEN SUMMARY

| | |
|---------|-----|
| 0- 5 | 30 |
| 5- 10 | 86 |
| 10- 15 | 132 |
| 15- 20 | 164 |
| 20- 25 | 180 |
| 25- 30 | 183 |
| 30- 35 | 173 |
| 35- 40 | 148 |
| 40- 45 | 108 |
| 45- 50 | 72 |
| 50- 55 | 46 |
| 55- 60 | 30 |
| 60- 65 | 18 |
| 65- 70 | 10 |
| 70- 75 | 6 |
| 75- 80 | 4 |
| 80- 85 | 2 |
| 85- 90 | 1 |
| 90- 95 | 1 |
| 95-100 | 0 |
| 100-105 | 0 |
| 105-110 | 0 |
| 110-115 | 0 |
| 115-120 | 0 |
| 120-125 | 0 |
| 125-130 | 0 |
| 130-135 | 0 |
| 135-140 | 0 |
| 140-145 | 0 |
| 145-150 | 0 |
| 150-155 | 0 |
| 155-160 | 0 |
| 160-165 | 0 |
| 165-170 | 0 |
| 170-175 | 0 |
| 175-180 | 0 |

10-DEGREE
ZONAL LUMEN SUMMARY

| | |
|-------|------|
| 0- 10 | 115 |
| 0- 20 | 411 |
| 0- 30 | 773 |
| 0- 40 | 1094 |
| 0- 50 | 1274 |
| 0- 60 | 1350 |
| 0- 70 | 1378 |
| 0- 80 | 1387 |
| 0- 90 | 1391 |
| 0-100 | 1392 |
| 0-110 | 1392 |
| 0-120 | 1392 |
| 0-130 | 1392 |
| 0-140 | 1392 |
| 0-150 | 1392 |
| 0-160 | 1392 |
| 0-170 | 1392 |
| 0-180 | 1392 |



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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

| RC | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 113 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 |
| 2 | 106 | 100 | 96 | 92 | 104 | 98 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 85 | 83 |
| 3 | 99 | 92 | 86 | 82 | 97 | 91 | 85 | 81 | 88 | 83 | 80 | 85 | 82 | 78 | 83 | 80 | 77 | 75 | 75 |
| 4 | 93 | 85 | 78 | 74 | 92 | 84 | 78 | 73 | 81 | 76 | 72 | 79 | 75 | 71 | 77 | 74 | 70 | 69 | 69 |
| 5 | 88 | 78 | 72 | 67 | 86 | 77 | 71 | 66 | 75 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | 63 | 63 |
| 6 | 83 | 73 | 66 | 61 | 81 | 72 | 65 | 61 | 70 | 65 | 60 | 69 | 64 | 60 | 67 | 63 | 59 | 58 | 58 |
| 7 | 78 | 68 | 61 | 56 | 77 | 67 | 60 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 53 | 53 |
| 8 | 74 | 63 | 56 | 52 | 72 | 62 | 56 | 52 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 49 | 49 |
| 9 | 70 | 59 | 52 | 48 | 69 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 47 | 56 | 51 | 47 | 46 | 46 |
| 10 | 66 | 55 | 49 | 45 | 65 | 55 | 49 | 45 | 54 | 48 | 44 | 53 | 48 | 44 | 52 | 48 | 44 | 43 | 43 |

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS TEST SAMPLE.

NOTE: THE ZONAL CAVITY CALCULATION TECHNIQUE IS ACCURATE WHEN LUMINAIRES WITH SYMMETRIC CANDELA DISTRIBUTIONS ARE EMPLOYED AND WHEN THE LUMINAIRES ARE LOCATED SYMMETRICALLY THROUGHOUT THE ROOM. THIS UNIT HAS SPECIAL CHARACTERISTICS AND THEREFORE THESE COEFFICIENTS SHOULD BE USED WITH CAUTION.

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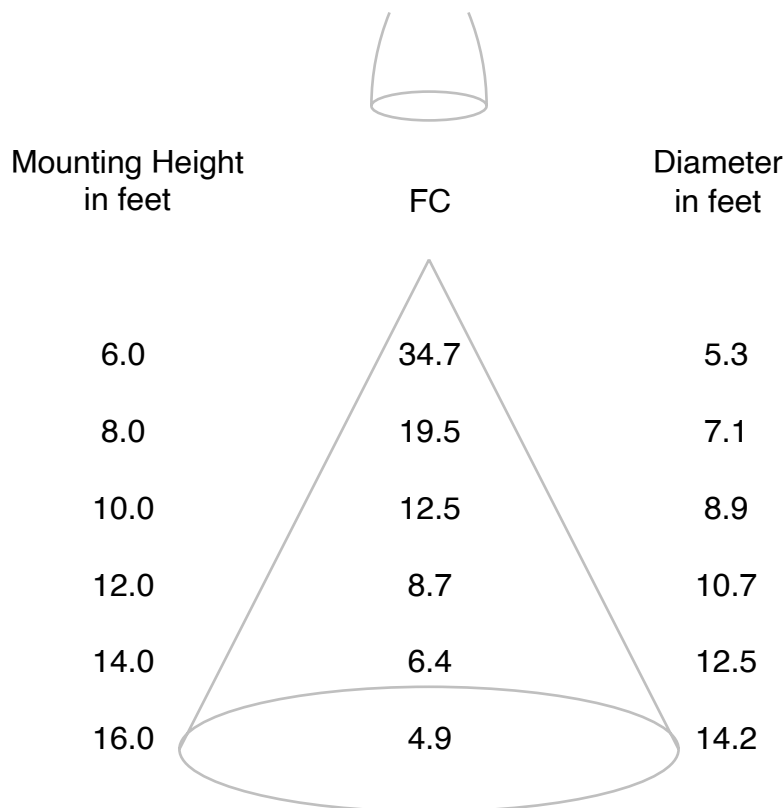
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CONE OF LIGHT DIAGRAM

(diameter shown is where fc/lux value is half the fc/lux at nadir)



If distances are feet, results are footcandles.

If distances are meters, results are lux.

Note: The candela values used to generate this diagram were obtained by averaging the photometric data into a single plane.