



**IES INDOOR REPORT
PHOTOMETRIC FILENAME : LLI080811E.IES**

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LLI 0808-11E
[TESTLAB] LIGHT LABORATORY INC
[ISSUEDATE] 9/24/2008
[MANUFAC] CRYSTAL LIGHTING CORP.
[LUMCAT] CLW-3068P
[LUMINAIRE] 8-3/4"L. X 4"D. X 12"H. WALL SCONCE
[MORE] WHITE REFLECTOR
[MORE] WHITE DIFFUSED LENS
[BALLASTCAT] ADVANCE ICF-2S26-H1-LD
[BALLAST] 120 TO 277V 50/60Hz ELECTRONIC
[LAMPPOSITION] 0,0
[LAMPCAT] GE F26DBXT4/SPX27/4P
[_LAMPLUM] 1710
[_INPUT] 120VAC, 57.15W

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Total Rated Lamp Lumens | 3420 (2 lamps) |
| Total Luminaire Efficiency | 83.4 % |
| Luminaire Efficacy Rating (LER) | 50 |
| Total Luminaire Watts | 57 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criteria (0-180) | 3.16 |
| Spacing Criteria (90-270) | 2.82 |
| Spacing Criteria (Diagonal) | 2.40 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 0.33 ft |
| Luminous Width (90-270) | 0.71 ft |
| Luminous Height | 1.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 7682 | 7654 | 11454 |
| 55 | 6699 | 5999 | 9194 |
| 65 | 6329 | 5156 | 7023 |
| 75 | 6224 | 4868 | 5839 |
| 85 | 6236 | 4613 | 5575 |

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CANDELA TABULATION

| | <u>0</u> | <u>5</u> | <u>15</u> | <u>25</u> | <u>35</u> | <u>45</u> | <u>55</u> | <u>65</u> | <u>75</u> | <u>85</u> |
|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 137 | 137 | 137 | 137 | 137 | 137 | 137 | 137 | 137 | 137 |
| 5 | 222 | 224 | 223 | 221 | 216 | 209 | 200 | 191 | 184 | 182 |
| 15 | 469 | 472 | 478 | 479 | 474 | 461 | 438 | 403 | 357 | 329 |
| 25 | 542 | 547 | 554 | 561 | 569 | 575 | 569 | 545 | 492 | 431 |
| 35 | 519 | 522 | 527 | 536 | 552 | 571 | 591 | 602 | 572 | 487 |
| 45 | 477 | 474 | 472 | 472 | 477 | 488 | 503 | 521 | 519 | 455 |
| 55 | 446 | 445 | 437 | 426 | 416 | 411 | 409 | 411 | 410 | 372 |
| 65 | 437 | 438 | 427 | 408 | 388 | 367 | 346 | 318 | 305 | 277 |
| 75 | 432 | 431 | 419 | 398 | 375 | 349 | 310 | 291 | 260 | 224 |
| 85 | 422 | 422 | 409 | 387 | 361 | 323 | 304 | 273 | 240 | 201 |
| 90 | 427 | 426 | 413 | 391 | 363 | 335 | 292 | 271 | 236 | 196 |
| 95 | 427 | 426 | 412 | 390 | 362 | 334 | 290 | 269 | 235 | 196 |
| 105 | 411 | 410 | 397 | 375 | 350 | 312 | 293 | 262 | 229 | 192 |
| 115 | 386 | 384 | 373 | 353 | 321 | 305 | 278 | 250 | 219 | 185 |
| 125 | 345 | 346 | 335 | 318 | 298 | 277 | 253 | 229 | 203 | 174 |
| 135 | 299 | 299 | 291 | 277 | 262 | 246 | 228 | 211 | 193 | 172 |
| 145 | 246 | 246 | 241 | 234 | 229 | 226 | 223 | 221 | 217 | 193 |
| 155 | 206 | 207 | 207 | 212 | 225 | 246 | 258 | 250 | 217 | 175 |
| 165 | 174 | 175 | 179 | 183 | 179 | 167 | 155 | 143 | 126 | 116 |
| 175 | 39 | 39 | 40 | 40 | 42 | 44 | 46 | 47 | 48 | 50 |
| 180 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |

Vert. Angles **Horizontal Angles**

| | <u>90</u> | <u>95</u> | <u>105</u> | <u>115</u> | <u>125</u> | <u>135</u> | <u>145</u> | <u>155</u> | <u>165</u> | <u>175</u> |
|------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 137 | 137 | 137 | 137 | 137 | 137 | 137 | 137 | 137 | 137 |
| 5 | 179 | 177 | 170 | 163 | 156 | 151 | 147 | 143 | 141 | 140 |
| 15 | 322 | 298 | 282 | 262 | 240 | 233 | 228 | 223 | 220 | 219 |
| 25 | 416 | 390 | 341 | 289 | 284 | 274 | 261 | 245 | 241 | 240 |
| 35 | 460 | 422 | 337 | 286 | 277 | 264 | 244 | 226 | 218 | 214 |
| 45 | 425 | 386 | 279 | 253 | 235 | 213 | 193 | 182 | 177 | 174 |
| 55 | 346 | 283 | 240 | 202 | 178 | 155 | 136 | 127 | 123 | 121 |
| 65 | 260 | 238 | 191 | 154 | 125 | 101 | 85 | 80 | 80 | 79 |
| 75 | 206 | 187 | 148 | 112 | 84 | 63 | 49 | 46 | 46 | 46 |
| 85 | 181 | 161 | 121 | 84 | 66 | 28 | 18 | 15 | 15 | 15 |
| 90 | 176 | 156 | 114 | 76 | 57 | 17 | 9 | 6 | 6 | 6 |
| 95 | 175 | 156 | 115 | 77 | 59 | 20 | 11 | 8 | 8 | 8 |
| 105 | 173 | 155 | 117 | 82 | 65 | 33 | 18 | 16 | 17 | 16 |
| 115 | 168 | 151 | 117 | 84 | 68 | 38 | 24 | 23 | 22 | 23 |
| 125 | 160 | 146 | 115 | 87 | 64 | 53 | 34 | 29 | 29 | 29 |
| 135 | 163 | 152 | 123 | 95 | 75 | 58 | 47 | 46 | 47 | 48 |
| 145 | 179 | 169 | 139 | 111 | 95 | 80 | 68 | 70 | 73 | 74 |
| 155 | 163 | 160 | 146 | 130 | 121 | 109 | 95 | 88 | 81 | 77 |
| 165 | 115 | 117 | 123 | 125 | 128 | 127 | 110 | 95 | 89 | 87 |
| 175 | 51 | 52 | 55 | 56 | 58 | 59 | 60 | 61 | 63 | 64 |
| 180 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |

Vert. Angles **Horizontal Angles**

| | <u>180</u> |
|-----------|------------|
| 0 | 137 |
| 5 | 140 |
| 15 | 219 |
| 25 | 240 |

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CANDELA TABULATION - (Cont.)

| | |
|------------|-----|
| 35 | 213 |
| 45 | 174 |
| 55 | 121 |
| 65 | 79 |
| 75 | 46 |
| 85 | 15 |
| 90 | 6 |
| 95 | 8 |
| 105 | 17 |
| 115 | 23 |
| 125 | 30 |
| 135 | 48 |
| 145 | 74 |
| 155 | 76 |
| 165 | 87 |
| 175 | 64 |
| 180 | 26 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|--------|---------|-------|-------|
| 0-30 | 193.68 | 5.7 | 6.8 |
| 0-40 | 419.71 | 12.3 | 14.7 |
| 0-60 | 966.75 | 28.3 | 33.9 |
| 0-90 | 1780.39 | 52.1 | 62.4 |
| 90-120 | 491.28 | 14.4 | 17.2 |
| 90-130 | 655.62 | 19.2 | 23 |
| 90-150 | 905.88 | 26.5 | 31.8 |
| 90-180 | 1070.82 | 31.3 | 37.6 |
| 0-180 | 2851.2 | 83.4 | 100 |

Total Luminaire Efficiency = 83.4%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 3.79 |
| 10-20 | 49.33 |
| 20-30 | 140.57 |
| 30-40 | 226.03 |
| 40-50 | 272.33 |
| 50-60 | 274.71 |
| 60-70 | 256.08 |
| 70-80 | 235.75 |
| 80-90 | 321.8 |
| 90-100 | 102.62 |
| 100-110 | 201.19 |
| 110-120 | 187.48 |
| 120-130 | 164.34 |
| 130-140 | 137.26 |
| 140-150 | 113 |
| 150-160 | 89.89 |
| 160-170 | 56.44 |
| 170-180 | 18.61 |

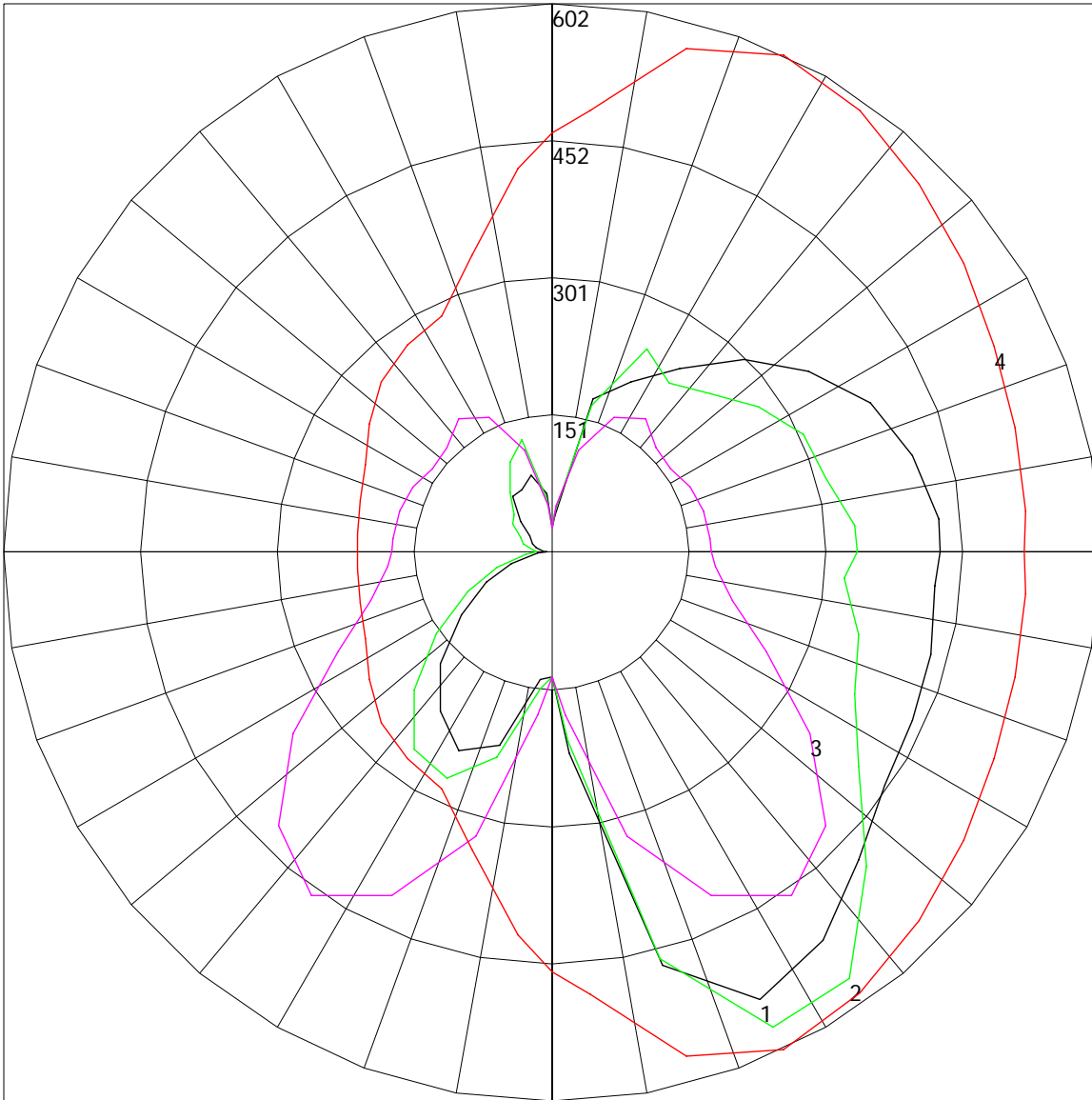
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | |
| 0 | 92 | 92 | 92 | 92 | 86 | 86 | 86 | 86 | 75 | 75 | 75 | 65 | 65 | 65 | 56 | 56 | 56 | 52 |
| 1 | 80 | 74 | 69 | 65 | 74 | 69 | 65 | 61 | 60 | 56 | 53 | 51 | 48 | 46 | 43 | 41 | 39 | 35 |
| 2 | 71 | 63 | 56 | 50 | 66 | 58 | 52 | 47 | 50 | 45 | 41 | 43 | 39 | 36 | 36 | 33 | 30 | 27 |
| 3 | 64 | 54 | 46 | 40 | 59 | 50 | 43 | 38 | 43 | 38 | 33 | 37 | 32 | 28 | 31 | 27 | 24 | 21 |
| 4 | 58 | 47 | 39 | 33 | 53 | 44 | 36 | 31 | 38 | 32 | 27 | 32 | 27 | 23 | 27 | 23 | 20 | 17 |
| 5 | 53 | 41 | 33 | 27 | 49 | 38 | 31 | 26 | 33 | 27 | 23 | 28 | 23 | 19 | 23 | 20 | 16 | 14 |
| 6 | 48 | 37 | 29 | 23 | 45 | 34 | 27 | 22 | 29 | 23 | 19 | 25 | 20 | 16 | 21 | 17 | 14 | 11 |
| 7 | 44 | 33 | 25 | 20 | 41 | 30 | 23 | 19 | 26 | 21 | 16 | 22 | 18 | 14 | 19 | 15 | 12 | 10 |
| 8 | 41 | 29 | 22 | 17 | 38 | 27 | 21 | 16 | 24 | 18 | 14 | 20 | 16 | 12 | 17 | 13 | 10 | 8 |
| 9 | 38 | 27 | 20 | 15 | 35 | 25 | 18 | 14 | 22 | 16 | 12 | 18 | 14 | 11 | 16 | 12 | 9 | 7 |
| 10 | 35 | 24 | 17 | 13 | 33 | 23 | 16 | 12 | 20 | 14 | 11 | 17 | 12 | 9 | 14 | 11 | 8 | 6 |

POLAR GRAPH



Maximum Candela = 602 Located At Horizontal Angle = 65, Vertical Angle = 35

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180) : BLACK
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225) : GREEN
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270) : MAGENTA
- # 4 - Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.) : RED

NOTE: ALL TESTS ASSUME BALLAST FACTOR (BF) = 1.0 UNLESS STATED.
IF TEST OR OTHER BALLAST USED HAS A BF OTHER THAN 1.0, ALL
LUMEN, CANDELA, AND LUMINANCE VALUES SHOULD BE MULTIPLIED BY
THE BF, CU, EFFICIENCY AND % FLUX VALUES REMAIN AS LISTED.
TOTAL WATTS VALUE APPLIES ONLY TO TESTED BALLAST.