

IES INDOOR REPORT

PHOTOMETRIC FILENAME : PL-CEILING ASYMM.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTDATE] 11 December 2024

[TESTLAB] Spectra Lux

[ISSUEDATE]

[TEST] S2412113-R1

[MANUFAC] BEGHELLI

[LUMCAT] PL-RMT (Ceiling Mount Asymmetrical)

[LUMINAIRE] PLURALUCE-CEILING MOUNT ASYMMETRIC DISTRIBUTION

[LAMP] Clusters of Seoul Semiconductors 3535 Dome LEDs c/w Beluce Driver RT-1 @ 12.00V DC

[BURNING] Axial (1,409 Luminaire Lumens)

[OPTICS] Ceiling Mount Asymmetrical Lenses

[LENS] None

[HOUSING] White Painted Fabricated

[NOMINAL COLOR] 4000 K

[DRIVE CURRENT] 778 mA / LED

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1414 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 113 |
| Total Luminaire Watts | 12.52 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 2.72 |
| Spacing Criterion (90-270) | 1.68 |
| Spacing Criterion (Diagonal) | 2.00 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.13 ft |
| Luminous Width (90-270) | 0.13 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 589836 | 444810 | 185905 |
| 55 | 735550 | 353976 | 55196 |
| 65 | 734466 | 65141 | 65141 |
| 75 | 82434 | 63820 | 63820 |
| 85 | 102657 | 55277 | 39484 |

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CANDELA TABULATION

| | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
|--------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |
| 2.5 | 268 | 268 | 269 | 269 | 269 | 270 | 270 | 270 | 270 | 271 |
| 5.0 | 268 | 269 | 269 | 270 | 270 | 271 | 271 | 271 | 271 | 271 |
| 7.5 | 270 | 270 | 271 | 271 | 271 | 271 | 271 | 271 | 270 | 270 |
| 10.0 | 272 | 272 | 273 | 273 | 273 | 273 | 272 | 271 | 271 | 271 |
| 12.5 | 277 | 277 | 277 | 277 | 277 | 276 | 275 | 275 | 276 | 277 |
| 15.0 | 284 | 284 | 285 | 284 | 284 | 284 | 283 | 282 | 283 | 283 |
| 17.5 | 292 | 292 | 293 | 292 | 293 | 293 | 292 | 292 | 291 | 290 |
| 20.0 | 298 | 298 | 299 | 299 | 299 | 300 | 300 | 299 | 298 | 296 |
| 22.5 | 304 | 304 | 305 | 306 | 306 | 307 | 307 | 306 | 303 | 298 |
| 25.0 | 314 | 313 | 314 | 314 | 314 | 315 | 315 | 311 | 307 | 304 |
| 27.5 | 325 | 325 | 326 | 326 | 325 | 326 | 323 | 318 | 317 | 318 |
| 30.0 | 336 | 336 | 338 | 338 | 340 | 339 | 334 | 331 | 332 | 329 |
| 32.5 | 354 | 353 | 353 | 352 | 354 | 355 | 350 | 349 | 345 | 338 |
| 35.0 | 386 | 384 | 380 | 377 | 377 | 374 | 370 | 366 | 358 | 353 |
| 37.5 | 431 | 428 | 419 | 414 | 409 | 399 | 395 | 383 | 379 | 377 |
| 40.0 | 484 | 479 | 467 | 462 | 448 | 435 | 422 | 410 | 406 | 407 |
| 42.5 | 544 | 540 | 532 | 526 | 498 | 481 | 458 | 444 | 449 | 446 |
| 45.0 | 606 | 605 | 602 | 600 | 573 | 540 | 506 | 498 | 494 | 457 |
| 47.5 | 666 | 660 | 659 | 669 | 653 | 611 | 574 | 559 | 512 | 440 |
| 50.0 | 680 | 682 | 710 | 753 | 720 | 693 | 662 | 593 | 503 | 412 |
| 52.5 | 664 | 673 | 736 | 805 | 793 | 794 | 722 | 602 | 479 | 369 |
| 55.0 | 613 | 635 | 734 | 824 | 873 | 866 | 749 | 587 | 437 | 295 |
| 57.5 | 497 | 537 | 685 | 830 | 941 | 901 | 736 | 543 | 357 | 180 |
| 60.0 | 369 | 417 | 605 | 834 | 974 | 886 | 681 | 456 | 219 | 82 |
| 62.5 | 443 | 476 | 651 | 852 | 930 | 791 | 569 | 299 | 91 | 48 |
| 65.0 | 451 | 528 | 689 | 761 | 738 | 623 | 368 | 105 | 49 | 40 |
| 67.5 | 312 | 358 | 435 | 442 | 413 | 333 | 128 | 51 | 39 | 35 |
| 70.0 | 156 | 160 | 166 | 175 | 175 | 112 | 54 | 38 | 33 | 31 |
| 72.5 | 68 | 79 | 85 | 76 | 61 | 45 | 37 | 31 | 29 | 27 |
| 75.0 | 31 | 37 | 45 | 43 | 37 | 31 | 30 | 27 | 25 | 24 |
| 77.5 | 23 | 21 | 27 | 32 | 26 | 25 | 24 | 22 | 21 | 20 |
| 80.0 | 20 | 17 | 15 | 21 | 20 | 20 | 19 | 18 | 15 | 15 |
| 82.5 | 17 | 14 | 16 | 14 | 15 | 15 | 14 | 13 | 11 | 11 |
| 85.0 | 13 | 12 | 13 | 12 | 11 | 11 | 10 | 9 | 7 | 7 |
| 87.5 | 9 | 8 | 8 | 7 | 6 | 6 | 5 | 4 | 4 | 3 |
| 90.0 | 6 | 6 | 5 | 4 | 3 | 3 | 2 | 1 | 1 | 1 |
| 92.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 97.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 107.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 112.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 117.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 122.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 127.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 132.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|
| 135.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 137.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 142.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 147.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 152.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 162.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 167.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 172.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 177.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | <u>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> | <u>95</u> |
| 0.0 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |
| 2.5 | 271 | 271 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 |
| 5.0 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 269 | 270 | 270 |
| 7.5 | 269 | 269 | 269 | 269 | 270 | 270 | 270 | 270 | 270 | 270 |
| 10.0 | 272 | 272 | 274 | 274 | 274 | 275 | 275 | 275 | 276 | 276 |
| 12.5 | 278 | 279 | 280 | 280 | 280 | 281 | 281 | 281 | 281 | 281 |
| 15.0 | 284 | 284 | 285 | 285 | 284 | 285 | 284 | 285 | 285 | 286 |
| 17.5 | 288 | 287 | 287 | 287 | 287 | 287 | 288 | 288 | 288 | 289 |
| 20.0 | 292 | 289 | 287 | 288 | 288 | 289 | 291 | 293 | 294 | 294 |
| 22.5 | 295 | 293 | 294 | 296 | 299 | 300 | 300 | 302 | 304 | 305 |
| 25.0 | 304 | 305 | 305 | 304 | 305 | 306 | 306 | 307 | 309 | 310 |
| 27.5 | 316 | 312 | 311 | 310 | 310 | 312 | 313 | 314 | 317 | 318 |
| 30.0 | 324 | 321 | 319 | 318 | 321 | 325 | 327 | 327 | 329 | 330 |
| 32.5 | 335 | 334 | 334 | 333 | 334 | 338 | 340 | 341 | 343 | 344 |
| 35.0 | 353 | 351 | 352 | 350 | 355 | 358 | 358 | 357 | 358 | 360 |
| 37.5 | 375 | 376 | 377 | 367 | 357 | 346 | 341 | 337 | 335 | 339 |
| 40.0 | 410 | 397 | 372 | 347 | 325 | 312 | 305 | 299 | 298 | 302 |
| 42.5 | 421 | 383 | 341 | 312 | 289 | 271 | 261 | 254 | 253 | 257 |
| 45.0 | 403 | 351 | 305 | 273 | 242 | 216 | 202 | 193 | 191 | 196 |
| 47.5 | 373 | 314 | 256 | 214 | 175 | 145 | 130 | 120 | 118 | 124 |
| 50.0 | 332 | 255 | 184 | 138 | 96 | 72 | 65 | 61 | 61 | 63 |
| 52.5 | 265 | 174 | 95 | 66 | 54 | 50 | 49 | 49 | 49 | 49 |
| 55.0 | 168 | 81 | 53 | 47 | 45 | 45 | 46 | 46 | 46 | 46 |
| 57.5 | 77 | 50 | 44 | 43 | 42 | 43 | 43 | 44 | 44 | 44 |
| 60.0 | 48 | 42 | 40 | 40 | 40 | 41 | 42 | 43 | 43 | 42 |
| 62.5 | 41 | 39 | 38 | 38 | 38 | 39 | 41 | 41 | 42 | 41 |
| 65.0 | 37 | 36 | 35 | 35 | 36 | 37 | 39 | 40 | 40 | 39 |
| 67.5 | 34 | 33 | 32 | 33 | 34 | 35 | 36 | 38 | 38 | 37 |
| 70.0 | 31 | 30 | 30 | 30 | 32 | 32 | 33 | 34 | 34 | 33 |
| 72.5 | 27 | 27 | 27 | 28 | 28 | 28 | 29 | 29 | 29 | 28 |
| 75.0 | 24 | 24 | 24 | 24 | 24 | 23 | 24 | 24 | 24 | 23 |
| 77.5 | 20 | 20 | 20 | 20 | 19 | 18 | 18 | 18 | 18 | 17 |
| 80.0 | 15 | 16 | 14 | 14 | 13 | 12 | 12 | 11 | 11 | 11 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----|---|---|---|---|---|---|---|---|---|
| 82.5 | 10 | 9 | 9 | 8 | 8 | 7 | 7 | 7 | 7 | 7 |
| 85.0 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 87.5 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 2 |
| 90.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 92.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 97.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 107.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 112.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 117.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 122.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 127.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 132.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 137.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 142.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 147.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 152.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 162.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 167.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 172.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 177.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-----------------|-------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | <u>100</u> | <u>105</u> | <u>110</u> | <u>115</u> | <u>120</u> | <u>125</u> | <u>130</u> | <u>135</u> | <u>140</u> | <u>145</u> |
| 0.0 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |
| 2.5 | 272 | 273 | 273 | 272 | 272 | 272 | 272 | 272 | 272 | 272 |
| 5.0 | 270 | 271 | 271 | 271 | 272 | 272 | 272 | 273 | 273 | 273 |
| 7.5 | 271 | 271 | 272 | 272 | 272 | 273 | 273 | 273 | 274 | 274 |
| 10.0 | 277 | 278 | 279 | 278 | 278 | 277 | 276 | 277 | 277 | 278 |
| 12.5 | 282 | 282 | 283 | 283 | 282 | 281 | 281 | 281 | 282 | 283 |
| 15.0 | 287 | 287 | 288 | 287 | 286 | 285 | 285 | 287 | 287 | 289 |
| 17.5 | 290 | 292 | 292 | 293 | 292 | 292 | 292 | 293 | 295 | 298 |
| 20.0 | 295 | 295 | 295 | 294 | 295 | 298 | 300 | 303 | 304 | 306 |
| 22.5 | 306 | 307 | 307 | 305 | 303 | 302 | 306 | 310 | 313 | 316 |
| 25.0 | 311 | 313 | 314 | 315 | 317 | 320 | 319 | 319 | 324 | 328 |
| 27.5 | 318 | 319 | 321 | 323 | 327 | 330 | 335 | 338 | 337 | 342 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 30.0 | 330 | 330 | 332 | 335 | 337 | 340 | 345 | 353 | 358 | 359 |
| 32.5 | 344 | 343 | 346 | 348 | 352 | 356 | 360 | 365 | 375 | 382 |
| 35.0 | 361 | 362 | 366 | 368 | 370 | 374 | 380 | 387 | 395 | 409 |
| 37.5 | 346 | 356 | 367 | 384 | 395 | 401 | 404 | 413 | 424 | 438 |
| 40.0 | 311 | 324 | 342 | 371 | 400 | 425 | 436 | 444 | 454 | 473 |
| 42.5 | 268 | 285 | 307 | 341 | 378 | 422 | 462 | 486 | 493 | 512 |
| 45.0 | 209 | 231 | 258 | 301 | 346 | 398 | 456 | 514 | 550 | 566 |
| 47.5 | 138 | 163 | 192 | 240 | 297 | 363 | 434 | 512 | 588 | 643 |
| 50.0 | 70 | 87 | 111 | 161 | 226 | 305 | 396 | 493 | 600 | 704 |
| 52.5 | 50 | 52 | 58 | 81 | 136 | 224 | 331 | 456 | 589 | 737 |
| 55.0 | 46 | 45 | 45 | 49 | 66 | 119 | 236 | 383 | 546 | 720 |
| 57.5 | 43 | 42 | 41 | 42 | 45 | 58 | 116 | 265 | 458 | 651 |
| 60.0 | 41 | 40 | 39 | 39 | 40 | 44 | 57 | 121 | 315 | 542 |
| 62.5 | 39 | 38 | 37 | 37 | 38 | 39 | 44 | 58 | 130 | 365 |
| 65.0 | 37 | 35 | 34 | 34 | 35 | 36 | 39 | 44 | 60 | 137 |
| 67.5 | 35 | 33 | 32 | 31 | 31 | 33 | 35 | 37 | 44 | 62 |
| 70.0 | 31 | 30 | 29 | 28 | 28 | 29 | 31 | 33 | 36 | 43 |
| 72.5 | 27 | 27 | 26 | 25 | 25 | 26 | 27 | 28 | 31 | 34 |
| 75.0 | 23 | 22 | 21 | 22 | 22 | 22 | 23 | 23 | 26 | 28 |
| 77.5 | 17 | 17 | 16 | 17 | 18 | 18 | 19 | 19 | 21 | 22 |
| 80.0 | 11 | 11 | 11 | 12 | 13 | 14 | 14 | 14 | 15 | 17 |
| 82.5 | 7 | 7 | 7 | 7 | 8 | 8 | 10 | 10 | 10 | 11 |
| 85.0 | 5 | 5 | 5 | 4 | 5 | 5 | 6 | 7 | 7 | 7 |
| 87.5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 90.0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 92.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 97.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 107.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 112.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 117.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 122.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 127.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 132.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 137.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 142.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 147.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 152.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 162.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 167.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|
| 170.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 172.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 177.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vert. Horizontal Angles
Angles

| | <u>150</u> | <u>155</u> | <u>160</u> | <u>165</u> | <u>170</u> | <u>175</u> | <u>180</u> |
|-------|------------|------------|------------|------------|------------|------------|------------|
| 0.0 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |
| 2.5 | 272 | 272 | 272 | 272 | 272 | 272 | 271 |
| 5.0 | 274 | 274 | 274 | 274 | 274 | 274 | 274 |
| 7.5 | 275 | 276 | 276 | 277 | 277 | 277 | 278 |
| 10.0 | 278 | 279 | 280 | 281 | 281 | 282 | 283 |
| 12.5 | 283 | 284 | 285 | 286 | 287 | 288 | 289 |
| 15.0 | 290 | 292 | 293 | 295 | 296 | 297 | 299 |
| 17.5 | 299 | 300 | 300 | 301 | 303 | 305 | 306 |
| 20.0 | 307 | 307 | 308 | 308 | 310 | 313 | 315 |
| 22.5 | 316 | 317 | 317 | 318 | 319 | 322 | 324 |
| 25.0 | 329 | 329 | 328 | 328 | 330 | 334 | 337 |
| 27.5 | 345 | 344 | 343 | 342 | 344 | 349 | 353 |
| 30.0 | 364 | 367 | 365 | 362 | 364 | 370 | 375 |
| 32.5 | 386 | 395 | 396 | 394 | 395 | 405 | 412 |
| 35.0 | 415 | 427 | 437 | 440 | 445 | 456 | 463 |
| 37.5 | 449 | 463 | 485 | 492 | 499 | 510 | 520 |
| 40.0 | 490 | 513 | 545 | 577 | 603 | 629 | 636 |
| 42.5 | 540 | 587 | 654 | 710 | 725 | 734 | 734 |
| 45.0 | 602 | 691 | 773 | 790 | 769 | 761 | 758 |
| 47.5 | 694 | 782 | 843 | 828 | 773 | 748 | 740 |
| 50.0 | 802 | 852 | 876 | 835 | 737 | 684 | 679 |
| 52.5 | 876 | 908 | 878 | 793 | 656 | 562 | 551 |
| 55.0 | 899 | 952 | 851 | 706 | 520 | 390 | 375 |
| 57.5 | 863 | 941 | 812 | 583 | 315 | 239 | 236 |
| 60.0 | 776 | 852 | 725 | 487 | 297 | 258 | 262 |
| 62.5 | 640 | 700 | 648 | 592 | 421 | 316 | 314 |
| 65.0 | 399 | 466 | 472 | 506 | 433 | 297 | 290 |
| 67.5 | 148 | 245 | 287 | 293 | 275 | 217 | 213 |
| 70.0 | 62 | 110 | 147 | 163 | 176 | 165 | 149 |
| 72.5 | 39 | 48 | 81 | 103 | 112 | 112 | 99 |
| 75.0 | 31 | 34 | 46 | 61 | 60 | 53 | 48 |
| 77.5 | 24 | 27 | 27 | 31 | 27 | 25 | 24 |
| 80.0 | 20 | 22 | 22 | 20 | 19 | 19 | 19 |
| 82.5 | 14 | 17 | 17 | 16 | 17 | 15 | 15 |
| 85.0 | 8 | 11 | 12 | 13 | 14 | 13 | 13 |
| 87.5 | 3 | 5 | 7 | 7 | 9 | 9 | 9 |
| 90.0 | 1 | 2 | 2 | 3 | 5 | 7 | 7 |
| 92.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 95.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 97.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 102.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 105.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 107.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 110.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 112.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 115.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL-CEILING ASYMM.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-------|---|---|---|---|---|---|---|
| 117.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 120.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 122.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 125.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 127.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 132.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 135.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 137.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 140.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 142.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 147.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 150.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 152.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 155.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 160.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 162.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 165.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 167.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 170.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 172.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 177.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL-CEILING ASYMM.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 107.64 | N.A. | 7.60 |
| 0-30 | 254.74 | N.A. | 18.00 |
| 0-40 | 494.51 | N.A. | 35.00 |
| 0-60 | 1172.36 | N.A. | 82.90 |
| 0-80 | 1404.6 | N.A. | 99.40 |
| 0-90 | 1413.26 | N.A. | 100.00 |
| 10-90 | 1387.25 | N.A. | 98.10 |
| 20-40 | 386.88 | N.A. | 27.40 |
| 20-50 | 731.16 | N.A. | 51.70 |
| 40-70 | 873.32 | N.A. | 61.80 |
| 60-80 | 232.24 | N.A. | 16.40 |
| 70-80 | 36.77 | N.A. | 2.60 |
| 80-90 | 8.66 | N.A. | 0.60 |
| 90-110 | 0.28 | N.A. | 0.00 |
| 90-120 | 0.28 | N.A. | 0.00 |
| 90-130 | 0.28 | N.A. | 0.00 |
| 90-150 | 0.28 | N.A. | 0.00 |
| 90-180 | 0.28 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 1413.53 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 26.01 |
| 10-20 | 81.63 |
| 20-30 | 147.10 |
| 30-40 | 239.78 |
| 40-50 | 344.28 |
| 50-60 | 333.56 |
| 60-70 | 195.47 |
| 70-80 | 36.77 |
| 80-90 | 8.66 |
| 90-100 | 0.28 |
| 100-110 | 0.00 |
| 110-120 | 0.00 |
| 120-130 | 0.00 |
| 130-140 | 0.00 |
| 140-150 | 0.00 |
| 150-160 | 0.00 |
| 160-170 | 0.00 |
| 170-180 | 0.00 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL-CEILING ASYMM.IES

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 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 75 | 82 | 78 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 52 | 65 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 50 | 48 |
| 5 | 74 | 60 | 51 | 44 | 72 | 59 | 50 | 44 | 57 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 40 |
| 6 | 67 | 53 | 44 | 37 | 65 | 52 | 44 | 37 | 51 | 43 | 37 | 49 | 42 | 36 | 47 | 41 | 36 | 34 |
| 7 | 62 | 48 | 38 | 32 | 60 | 47 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 31 | 42 | 36 | 31 | 29 |
| 8 | 57 | 43 | 34 | 28 | 56 | 42 | 34 | 28 | 41 | 33 | 27 | 40 | 32 | 27 | 38 | 32 | 27 | 25 |
| 9 | 53 | 39 | 30 | 24 | 52 | 38 | 30 | 24 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 28 | 24 | 22 |
| 10 | 49 | 35 | 27 | 22 | 48 | 35 | 27 | 21 | 34 | 26 | 21 | 33 | 26 | 21 | 32 | 26 | 21 | 19 |

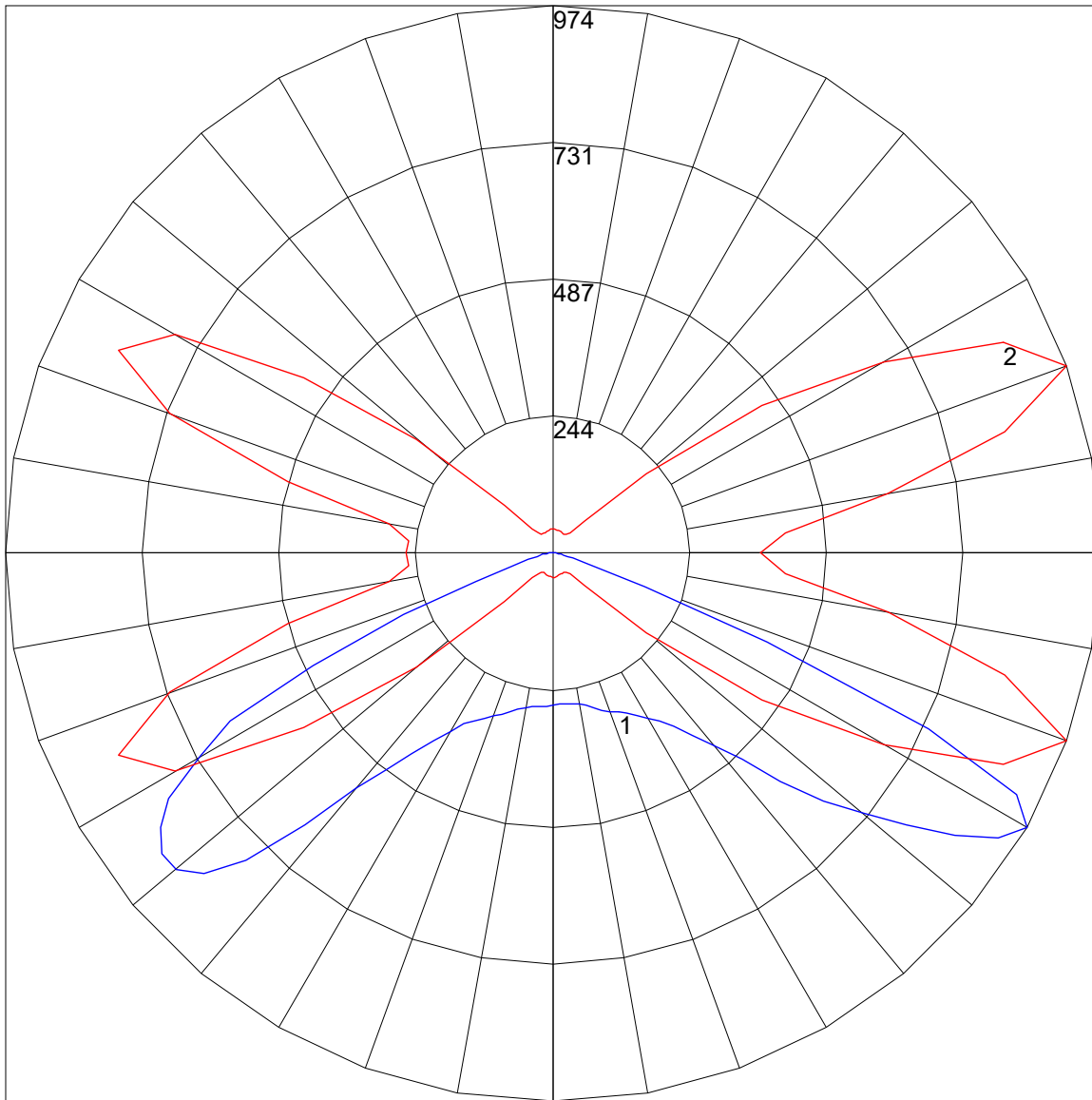
IES INDOOR REPORT
PHOTOMETRIC FILENAME : PL-CEILING ASYMM.IES

UGR TABLE - CORRECTED

| Reflectances | | | | | | | | | | | |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 | |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 | |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | |
| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
| X=2H | Y=2H | 41.3 | 43.0 | 41.7 | 43.4 | 43.7 | 19.9 | 21.6 | 20.3 | 21.9 | 22.3 |
| | 3H | 42.0 | 43.5 | 42.3 | 43.8 | 44.2 | 22.6 | 24.2 | 23.0 | 24.5 | 24.9 |
| | 4H | 41.9 | 43.4 | 42.3 | 43.7 | 44.1 | 23.6 | 25.1 | 24.0 | 25.4 | 25.8 |
| | 6H | 41.9 | 43.2 | 42.3 | 43.6 | 44.0 | 24.2 | 25.5 | 24.6 | 25.9 | 26.3 |
| | 8H | 41.9 | 43.2 | 42.3 | 43.5 | 43.9 | 24.3 | 25.6 | 24.7 | 26.0 | 26.4 |
| | 12H | 41.8 | 43.1 | 42.3 | 43.5 | 43.9 | 24.4 | 25.6 | 24.8 | 26.0 | 26.4 |
| 4H | 2H | 41.2 | 42.6 | 41.6 | 43.0 | 43.3 | 21.2 | 22.6 | 21.6 | 23.0 | 23.3 |
| | 3H | 41.8 | 43.0 | 42.2 | 43.4 | 43.8 | 23.8 | 25.0 | 24.2 | 25.4 | 25.8 |
| | 4H | 41.8 | 42.9 | 42.2 | 43.3 | 43.7 | 24.9 | 26.0 | 25.3 | 26.4 | 26.8 |
| | 6H | 41.8 | 42.7 | 42.2 | 43.2 | 43.6 | 25.5 | 26.5 | 26.0 | 26.9 | 27.4 |
| | 8H | 41.8 | 42.6 | 42.2 | 43.1 | 43.5 | 25.7 | 26.6 | 26.2 | 27.0 | 27.5 |
| | 12H | 41.7 | 42.5 | 42.2 | 43.0 | 43.5 | 25.8 | 26.6 | 26.3 | 27.1 | 27.5 |
| 8H | 4H | 41.7 | 42.6 | 42.2 | 43.1 | 43.5 | 25.5 | 26.4 | 26.0 | 26.8 | 27.3 |
| | 6H | 41.7 | 42.4 | 42.2 | 42.9 | 43.4 | 26.2 | 27.0 | 26.7 | 27.4 | 27.9 |
| | 8H | 41.7 | 42.3 | 42.2 | 42.8 | 43.3 | 26.4 | 27.1 | 26.9 | 27.6 | 28.1 |
| | 12H | 41.6 | 42.2 | 42.2 | 42.7 | 43.3 | 26.6 | 27.2 | 27.1 | 27.7 | 28.2 |
| 12H | 4H | 41.7 | 42.5 | 42.2 | 43.0 | 43.5 | 25.6 | 26.4 | 26.1 | 26.9 | 27.3 |
| | 6H | 41.7 | 42.3 | 42.2 | 42.8 | 43.3 | 26.4 | 27.0 | 26.9 | 27.5 | 28.0 |
| | 8H | 41.6 | 42.2 | 42.1 | 42.7 | 43.3 | 26.6 | 27.2 | 27.1 | 27.7 | 28.2 |

Maximum UGR = 44.2

POLAR GRAPH



Maximum Candela = 974 Located At Horizontal Angle = 20, Vertical Angle = 60
1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (60) (Through Max. Cd.)