



IES INDOOR REPORT
PHOTOMETRIC FILENAME : E-2-XX-850-4-X-CA HO5.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L072111028
 [TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
 [ISSUE DATE] 9/8/2021
 [MANUFAC] LUX DYNAMICS
 [LUMCAT] E-2-SA-850-4-U10 HO5
 [LUMINAIRE] LED LUMINAIRE
 [BALLASTCAT] OSRAM OPTOTRONIC OTI85/120-277/2A3 DIM L HB
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 277VAC
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 25164 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 167 |
| Total Luminaire Watts | 150.88 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.22 |
| Spacing Criterion (90-270) | 1.30 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 3.83 ft |
| Luminous Width (90-270) | 0.96 ft |
| Luminous Height | 0.06 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 17943 | 20531 | 22346 |
| 55 | 14873 | 20285 | 25326 |
| 65 | 11262 | 21878 | 25082 |
| 75 | 6811 | 19954 | 19334 |
| 85 | 2846 | 15301 | 14172 |

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CANDELA TABULATION

| | <u>0</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 8086 | 8086 | 8086 | 8086 | 8086 | 8086 | 8086 | 8086 | 8086 | 8086 |
| 5 | 8028 | 8042 | 8056 | 8086 | 8068 | 8038 | 8018 | 8014 | 8014 | 8028 |
| 10 | 7938 | 7942 | 7948 | 7912 | 7914 | 7960 | 8042 | 8130 | 8168 | 8188 |
| 15 | 7750 | 7726 | 7686 | 7716 | 7818 | 7922 | 7974 | 7986 | 7988 | 7980 |
| 20 | 7454 | 7400 | 7384 | 7478 | 7568 | 7600 | 7624 | 7654 | 7658 | 7704 |
| 25 | 7058 | 7000 | 7018 | 7118 | 7154 | 7186 | 7226 | 7300 | 7322 | 7250 |
| 30 | 6532 | 6494 | 6508 | 6612 | 6660 | 6708 | 6822 | 6752 | 6674 | 6700 |
| 35 | 5912 | 5878 | 5926 | 6094 | 6094 | 6198 | 6140 | 6096 | 6154 | 6234 |
| 40 | 5174 | 5174 | 5322 | 5434 | 5490 | 5480 | 5458 | 5532 | 5646 | 5730 |
| 45 | 4406 | 4442 | 4612 | 4720 | 4764 | 4740 | 4828 | 4974 | 5078 | 5238 |
| 50 | 3682 | 3716 | 3856 | 3968 | 3990 | 4042 | 4242 | 4368 | 4538 | 4710 |
| 55 | 2982 | 3026 | 3112 | 3196 | 3232 | 3414 | 3600 | 3798 | 4028 | 4292 |
| 60 | 2322 | 2346 | 2408 | 2454 | 2572 | 2774 | 3030 | 3352 | 3730 | 4028 |
| 65 | 1682 | 1702 | 1732 | 1798 | 1964 | 2224 | 2590 | 2956 | 3286 | 3536 |
| 70 | 1106 | 1120 | 1150 | 1296 | 1456 | 1764 | 2116 | 2450 | 2738 | 2988 |
| 75 | 638 | 644 | 692 | 816 | 1026 | 1272 | 1574 | 1814 | 2036 | 2130 |
| 80 | 304 | 312 | 364 | 470 | 610 | 772 | 938 | 1128 | 1286 | 1400 |
| 85 | 100 | 108 | 140 | 190 | 258 | 344 | 452 | 562 | 660 | 744 |
| 90 | 36 | 44 | 62 | 94 | 138 | 194 | 264 | 342 | 422 | 496 |
| 95 | 40 | 44 | 60 | 82 | 122 | 166 | 218 | 274 | 330 | 376 |
| 100 | 48 | 52 | 64 | 84 | 102 | 130 | 176 | 224 | 264 | 292 |
| 105 | 58 | 64 | 80 | 110 | 138 | 146 | 162 | 180 | 204 | 222 |
| 110 | 68 | 80 | 90 | 130 | 170 | 208 | 200 | 202 | 204 | 204 |
| 115 | 80 | 92 | 100 | 138 | 188 | 222 | 268 | 254 | 236 | 228 |
| 120 | 92 | 104 | 112 | 152 | 188 | 238 | 222 | 298 | 302 | 272 |
| 125 | 104 | 114 | 124 | 156 | 204 | 222 | 264 | 222 | 296 | 318 |
| 130 | 114 | 116 | 130 | 154 | 198 | 228 | 230 | 274 | 266 | 224 |
| 135 | 122 | 120 | 128 | 162 | 186 | 222 | 244 | 216 | 280 | 278 |
| 140 | 128 | 124 | 124 | 158 | 182 | 202 | 234 | 254 | 220 | 236 |
| 145 | 130 | 126 | 116 | 150 | 176 | 190 | 204 | 232 | 250 | 256 |
| 150 | 138 | 134 | 122 | 134 | 164 | 184 | 196 | 200 | 220 | 238 |
| 155 | 144 | 140 | 132 | 124 | 146 | 166 | 184 | 194 | 198 | 202 |
| 160 | 144 | 142 | 138 | 132 | 128 | 144 | 160 | 170 | 184 | 192 |
| 165 | 146 | 142 | 140 | 136 | 132 | 130 | 132 | 142 | 154 | 162 |
| 170 | 148 | 146 | 144 | 142 | 140 | 138 | 134 | 134 | 134 | 134 |
| 175 | 154 | 152 | 152 | 152 | 150 | 150 | 148 | 148 | 146 | 146 |
| 180 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 |

Vert. 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> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 8086 | 8086 | 8086 | 8086 | 8086 | 8086 | 8086 | 8086 | 8086 |
| 5 | 8048 | 8076 | 8110 | 8152 | 8192 | 8226 | 8248 | 8260 | 8266 |
| 10 | 8188 | 8198 | 8206 | 8222 | 8242 | 8258 | 8264 | 8262 | 8266 |
| 15 | 7982 | 7988 | 7992 | 8018 | 8074 | 8114 | 8142 | 8156 | 8156 |
| 20 | 7774 | 7756 | 7726 | 7714 | 7702 | 7690 | 7674 | 7666 | 7658 |
| 25 | 7204 | 7218 | 7278 | 7326 | 7360 | 7390 | 7400 | 7406 | 7398 |
| 30 | 6794 | 6832 | 6890 | 6958 | 7038 | 7088 | 7110 | 7114 | 7104 |
| 35 | 6356 | 6466 | 6508 | 6536 | 6570 | 6574 | 6562 | 6566 | 6562 |
| 40 | 5864 | 5972 | 6026 | 6032 | 6054 | 6076 | 6098 | 6112 | 6112 |
| 45 | 5358 | 5460 | 5514 | 5556 | 5610 | 5656 | 5690 | 5722 | 5740 |
| 50 | 4864 | 4958 | 5116 | 5332 | 5558 | 5722 | 5832 | 5884 | 5908 |
| 55 | 4568 | 4832 | 5046 | 5150 | 5236 | 5308 | 5368 | 5402 | 5410 |
| 60 | 4220 | 4392 | 4580 | 4738 | 4842 | 4880 | 4906 | 4906 | 4890 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|------------|------|------|------|------|------|------|------|------|------|
| 65 | 3768 | 3964 | 4038 | 4038 | 4050 | 4086 | 4108 | 4116 | 4110 |
| 70 | 3074 | 3122 | 3160 | 3180 | 3192 | 3188 | 3174 | 3176 | 3178 |
| 75 | 2186 | 2244 | 2288 | 2318 | 2290 | 2240 | 2176 | 2130 | 2110 |
| 80 | 1456 | 1466 | 1462 | 1400 | 1328 | 1266 | 1226 | 1200 | 1194 |
| 85 | 804 | 830 | 814 | 774 | 746 | 734 | 728 | 726 | 724 |
| 90 | 558 | 574 | 560 | 548 | 536 | 526 | 514 | 508 | 504 |
| 95 | 406 | 414 | 412 | 402 | 388 | 374 | 364 | 356 | 352 |
| 100 | 306 | 316 | 318 | 314 | 302 | 294 | 288 | 284 | 284 |
| 105 | 234 | 242 | 248 | 250 | 250 | 248 | 248 | 246 | 246 |
| 110 | 204 | 204 | 204 | 206 | 210 | 212 | 216 | 218 | 218 |
| 115 | 226 | 214 | 208 | 202 | 200 | 200 | 204 | 208 | 210 |
| 120 | 254 | 244 | 236 | 232 | 228 | 226 | 222 | 220 | 222 |
| 125 | 316 | 296 | 274 | 264 | 256 | 252 | 250 | 250 | 248 |
| 130 | 292 | 316 | 318 | 316 | 310 | 304 | 294 | 290 | 290 |
| 135 | 266 | 224 | 242 | 286 | 306 | 310 | 314 | 314 | 316 |
| 140 | 280 | 276 | 280 | 268 | 244 | 230 | 222 | 224 | 224 |
| 145 | 226 | 218 | 250 | 276 | 282 | 280 | 280 | 282 | 284 |
| 150 | 250 | 260 | 256 | 242 | 228 | 222 | 222 | 224 | 224 |
| 155 | 212 | 226 | 238 | 246 | 252 | 258 | 260 | 262 | 262 |
| 160 | 200 | 202 | 204 | 206 | 210 | 214 | 216 | 218 | 220 |
| 165 | 168 | 176 | 182 | 190 | 196 | 200 | 202 | 204 | 204 |
| 170 | 136 | 138 | 142 | 146 | 150 | 152 | 156 | 158 | 160 |
| 175 | 144 | 144 | 144 | 144 | 144 | 144 | 142 | 144 | 144 |
| 180 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 | 152 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 3011.85 | N.A. | 12.00 |
| 0-30 | 6350.17 | N.A. | 25.20 |
| 0-40 | 10284.11 | N.A. | 40.90 |
| 0-60 | 18123.14 | N.A. | 72.00 |
| 0-80 | 23075.96 | N.A. | 91.70 |
| 0-90 | 23765.28 | N.A. | 94.40 |
| 10-90 | 22991.51 | N.A. | 91.40 |
| 20-40 | 7272.26 | N.A. | 28.90 |
| 20-50 | 11294.36 | N.A. | 44.90 |
| 40-70 | 10947.58 | N.A. | 43.50 |
| 60-80 | 4952.82 | N.A. | 19.70 |
| 70-80 | 1844.28 | N.A. | 7.30 |
| 80-90 | 689.32 | N.A. | 2.70 |
| 90-110 | 519.95 | N.A. | 2.10 |
| 90-120 | 716.62 | N.A. | 2.80 |
| 90-130 | 926.70 | N.A. | 3.70 |
| 90-150 | 1246.49 | N.A. | 5.00 |
| 90-180 | 1398.69 | N.A. | 5.60 |
| 110-180 | 878.75 | N.A. | 3.50 |
| 0-180 | 25163.97 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 773.77 |
| 10-20 | 2238.08 |
| 20-30 | 3338.32 |
| 30-40 | 3933.93 |
| 40-50 | 4022.1 |
| 50-60 | 3816.94 |
| 60-70 | 3108.55 |
| 70-80 | 1844.28 |
| 80-90 | 689.32 |
| 90-100 | 312.23 |
| 100-110 | 207.72 |
| 110-120 | 196.67 |
| 120-130 | 210.09 |
| 130-140 | 183.43 |
| 140-150 | 136.36 |
| 150-160 | 91.58 |
| 160-170 | 46.67 |
| 170-180 | 13.95 |

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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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 94 |
| 1 | 107 | 102 | 97 | 93 | 104 | 99 | 95 | 91 | 94 | 90 | 87 | 89 | 86 | 84 | 84 | 82 | 80 | 78 |
| 2 | 97 | 88 | 81 | 76 | 94 | 86 | 80 | 74 | 82 | 76 | 72 | 77 | 73 | 69 | 74 | 70 | 67 | 64 |
| 3 | 88 | 77 | 69 | 62 | 85 | 75 | 68 | 62 | 72 | 65 | 60 | 68 | 63 | 58 | 65 | 60 | 56 | 54 |
| 4 | 81 | 68 | 60 | 53 | 78 | 67 | 58 | 52 | 64 | 56 | 51 | 61 | 54 | 49 | 58 | 53 | 48 | 46 |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 57 | 49 | 44 | 54 | 48 | 43 | 52 | 46 | 42 | 40 |
| 6 | 68 | 55 | 46 | 39 | 66 | 54 | 45 | 39 | 51 | 44 | 38 | 49 | 42 | 37 | 47 | 41 | 37 | 34 |
| 7 | 63 | 50 | 41 | 35 | 61 | 49 | 40 | 34 | 47 | 39 | 34 | 45 | 38 | 33 | 43 | 37 | 33 | 30 |
| 8 | 59 | 45 | 37 | 31 | 57 | 44 | 36 | 31 | 43 | 35 | 30 | 41 | 34 | 30 | 39 | 34 | 29 | 27 |
| 9 | 55 | 42 | 33 | 28 | 53 | 41 | 33 | 28 | 39 | 32 | 27 | 38 | 31 | 27 | 36 | 31 | 26 | 24 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 34 | 28 | 24 | 22 |

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UGR TABLE - CORRECTED

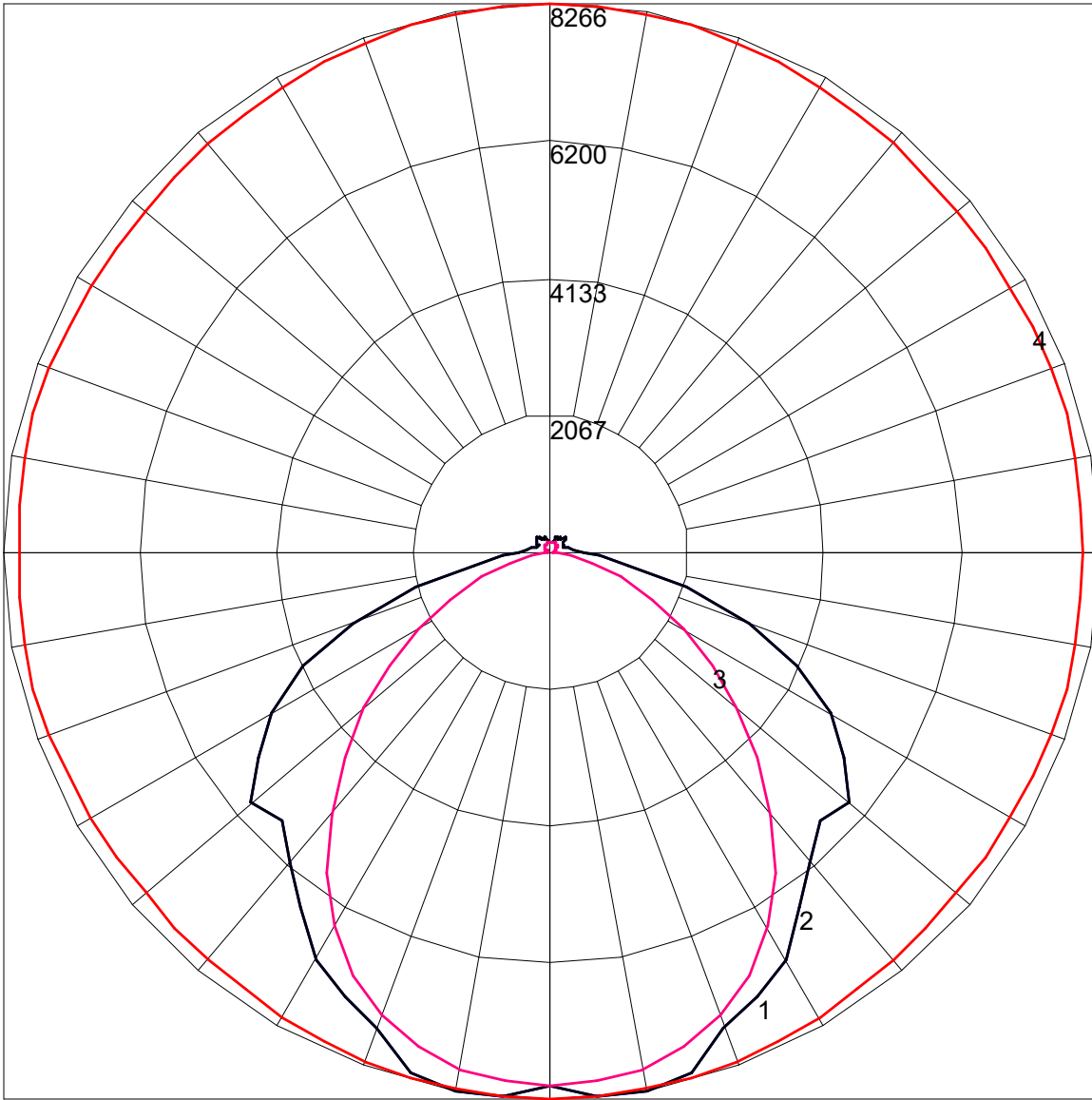
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 19.9 | 21.4 | 20.3 | 21.8 | 22.3 | 24.0 | 25.5 | 24.4 | 25.9 | 26.4 |
| | 3H | 20.9 | 22.3 | 21.4 | 22.7 | 23.2 | 26.0 | 27.4 | 26.5 | 27.9 | 28.4 |
| | 4H | 21.2 | 22.5 | 21.7 | 22.9 | 23.4 | 26.7 | 28.0 | 27.2 | 28.5 | 29.0 |
| | 6H | 21.3 | 22.5 | 21.8 | 23.0 | 23.5 | 27.2 | 28.4 | 27.7 | 28.9 | 29.4 |
| | 8H | 21.3 | 22.4 | 21.8 | 22.9 | 23.5 | 27.3 | 28.5 | 27.8 | 29.0 | 29.5 |
| | 12H | 21.3 | 22.4 | 21.8 | 22.9 | 23.4 | 27.5 | 28.6 | 28.0 | 29.1 | 29.6 |
| 4H | 2H | 21.5 | 22.8 | 22.0 | 23.3 | 23.8 | 24.5 | 25.8 | 25.0 | 26.2 | 26.7 |
| | 3H | 23.0 | 24.1 | 23.5 | 24.6 | 25.1 | 26.8 | 27.9 | 27.3 | 28.4 | 28.9 |
| | 4H | 23.4 | 24.4 | 23.9 | 24.9 | 25.5 | 27.6 | 28.6 | 28.2 | 29.2 | 29.7 |
| | 6H | 23.5 | 24.4 | 24.1 | 25.0 | 25.6 | 28.2 | 29.1 | 28.8 | 29.7 | 30.2 |
| | 8H | 23.6 | 24.4 | 24.1 | 24.9 | 25.5 | 28.5 | 29.3 | 29.0 | 29.8 | 30.4 |
| | 12H | 23.6 | 24.3 | 24.1 | 24.9 | 25.5 | 28.7 | 29.4 | 29.2 | 30.0 | 30.6 |
| 8H | 4H | 24.4 | 25.2 | 24.9 | 25.7 | 26.3 | 27.9 | 28.7 | 28.5 | 29.3 | 29.9 |
| | 6H | 24.8 | 25.5 | 25.3 | 26.0 | 26.7 | 28.6 | 29.3 | 29.2 | 29.9 | 30.5 |
| | 8H | 24.9 | 25.5 | 25.5 | 26.1 | 26.7 | 29.0 | 29.6 | 29.6 | 30.2 | 30.8 |
| | 12H | 24.9 | 25.4 | 25.5 | 26.0 | 26.7 | 29.3 | 29.8 | 29.9 | 30.4 | 31.1 |
| 12H | 4H | 24.5 | 25.3 | 25.1 | 25.8 | 26.4 | 27.9 | 28.6 | 28.5 | 29.2 | 29.8 |
| | 6H | 25.1 | 25.7 | 25.7 | 26.2 | 26.9 | 28.7 | 29.3 | 29.3 | 29.9 | 30.5 |
| | 8H | 25.2 | 25.8 | 25.8 | 26.4 | 27.1 | 29.1 | 29.6 | 29.7 | 30.2 | 30.9 |

Maximum UGR = 31.1

POLAR GRAPH



Maximum Candela = 8266 Located At Horizontal Angle = 90, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)