

ZANIBONI® LIGHTING

Filename: D3-LU4OS-1830C-3S-WS-Z-0

Manufacturer: Zaniboni Lighting

Luminaire: D3-LU4OS-1830C-3S-WS-Z-0

Luminaire Cat: D3-LU4OS-1830C-3S-WS-Z-0

Lamp: WHITE 3K 90 CRI 36 DEGREE SOLITE FILM

Lamp Output: Total luminaire Lumens: 2093.6

Max Candela: 5,636.3 at Horizontal: 0°, Vertical: 0°

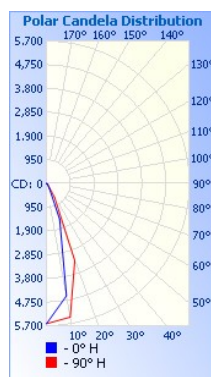
Luminous Opening: Circular (Dia: 2.76")

Test: LUNA 4OS V13 515mA 33.61V

Test Lab: Zaniboni Light

Photometry: Type C

Nema Type: 4 X 4



Roadway Summary

| | |
|------------------------|--------------------|
| Cutoff Classification: | CUTOFF |
| Distribution: | TYPE I, VERY SHORT |
| Max Cd, 90 Deg Vert: | 4.4 |
| Max Cd, 80 to <90 Deg: | 3.7 |
| Lumens % Lamp | |
| Downward Street Side: | 1,001.8 47.9% |
| Downward House Side: | 1,134.9 54.2% |
| Downward Total: | 2,136.7 102.1% |
| Total Lumens: | 2,136.7 102.1% |

Flood Summary

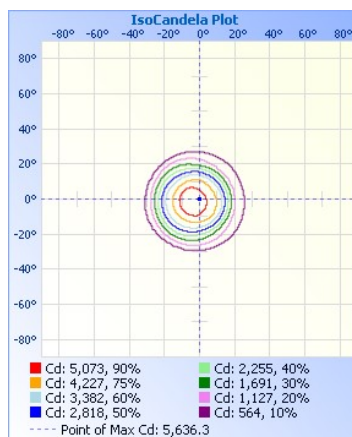
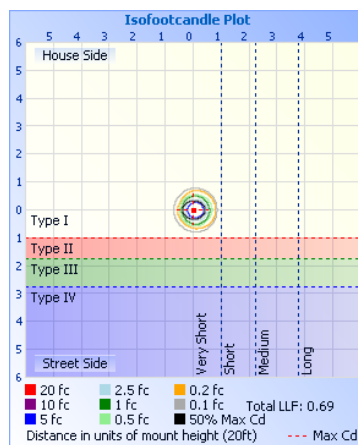
| | Efficiency | Lumens | Horizontal Spread | Vertical Spread |
|--------------|------------|---------|-------------------|-----------------|
| Field (10%): | 89.2% | 1,868.4 | 56.6 | 56.3 |
| Beam (50%): | 57.4% | 1,201.9 | 35.9 | 33.5 |
| Total: | 102% | 2,134.5 | | |

Zonal Lumen Summary

| Zone | Lumens | % Luminaire |
|-------|---------|-------------|
| 0-30 | 1,866.2 | 89.1% |
| 0-40 | 1,994.3 | 95.3% |
| 0-60 | 2,071.3 | 98.9% |
| 60-90 | 22.2 | 1.1% |
| 0-90 | 2,093.6 | 100% |

Lumens Per Zone

| Zone | Lumens | % Total |
|-------|--------|---------|
| 0-10 | 474.8 | 22.7% |
| 10-20 | 890.3 | 42.5% |
| 20-30 | 501.1 | 23.9% |
| 30-40 | 128.1 | 6.1% |
| 40-50 | 48.2 | 2.3% |
| 50-60 | 28.9 | 1.4% |
| 60-70 | 15.3 | 0.7% |
| 70-80 | 5.2 | 0.2% |
| 80-90 | 1.7 | 0.1% |



| Illuminance at a Distance | | | |
|---------------------------|----------------|------------|---------|
| | Center Beam fc | Beam Width | |
| 5.0ft | 225 fc | 3.0 ft | 3.2 ft |
| 10.0ft | 56.4 fc | 6.0 ft | 6.5 ft |
| 15.0ft | 25.1 fc | 9.0 ft | 9.7 ft |
| 20.0ft | 14.1 fc | 12.0 ft | 13.0 ft |
| 25.0ft | 9.02 fc | 15.0 ft | 16.2 ft |
| 30.0ft | 6.26 fc | 18.0 ft | 19.5 ft |

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

| RCC %: | <i>80</i> | | | | <i>70</i> | | | | <i>50</i> | | | | <i>30</i> | | | | <i>10</i> | | | | <i>0</i> |
|--------|-----------|-----------|-----------|----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| RW %: | <u>70</u> | <u>50</u> | <u>30</u> | <u>0</u> | <u>70</u> | <u>50</u> | <u>30</u> | <u>0</u> | <u>50</u> | <u>30</u> | <u>20</u> | <u>50</u> | <u>30</u> | <u>20</u> | <u>50</u> | <u>30</u> | <u>20</u> | <u>50</u> | <u>30</u> | <u>20</u> | <u>0</u> |
| RCR: 0 | 1.19 | 1.19 | 1.19 | 1.19 | 1.16 | 1.16 | 1.16 | 1.00 | 1.11 | 1.11 | 1.11 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 1.00 | | | 1.00 |
| 1 | 1.14 | 1.12 | 1.10 | 1.08 | 1.12 | 1.10 | 1.08 | .96 | 1.06 | 1.04 | 1.03 | 1.02 | 1.01 | 1.00 | .99 | .98 | .97 | | | | .95 |
| 2 | 1.10 | 1.06 | 1.02 | .99 | 1.08 | 1.04 | 1.01 | .91 | 1.01 | .98 | .96 | .98 | .96 | .94 | .95 | .93 | .92 | .91 | | | |
| 3 | 1.05 | 1.00 | .96 | .93 | 1.04 | .99 | .95 | .87 | .96 | .93 | .90 | .94 | .91 | .89 | .92 | .89 | .88 | .86 | | | |
| 4 | 1.01 | .95 | .90 | .87 | 1.00 | .94 | .90 | .83 | .92 | .88 | .85 | .90 | .87 | .85 | .88 | .86 | .84 | .82 | | | |
| 5 | .98 | .91 | .86 | .82 | .96 | .90 | .85 | .80 | .88 | .84 | .81 | .87 | .83 | .81 | .85 | .82 | .80 | .79 | | | |
| 6 | .94 | .87 | .82 | .78 | .93 | .86 | .81 | .76 | .85 | .81 | .77 | .83 | .80 | .77 | .82 | .79 | .77 | .75 | | | |
| 7 | .91 | .83 | .78 | .75 | .89 | .82 | .78 | .73 | .81 | .77 | .74 | .80 | .76 | .74 | .79 | .76 | .73 | .72 | | | |
| 8 | .87 | .80 | .75 | .71 | .86 | .79 | .75 | .70 | .78 | .74 | .71 | .77 | .74 | .71 | .76 | .73 | .71 | .69 | | | |
| 9 | .84 | .77 | .72 | .69 | .84 | .76 | .72 | .68 | .75 | .71 | .68 | .75 | .71 | .68 | .74 | .70 | .68 | .67 | | | |
| 10 | .82 | .74 | .69 | .66 | .81 | .73 | .69 | .65 | .73 | .69 | .66 | .72 | .68 | .66 | .71 | .68 | .65 | .64 | | | |

Candela Table - Type C

| | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | 360 |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 | 5636 |
| 10 | 4585 | 4705 | 4829 | 4945 | 5054 | 5158 | 5256 | 5341 | 5409 | 5454 | 5474 | 5454 | 5410 | 5350 | 5284 | 5214 | 5140 | 5055 | 4952 | 4845 | 4739 | 4635 | 4534 | 4439 | 4344 | 4250 | 4175 | 4114 | 4063 | 4037 | 4029 | 4045 | 4086 | 4148 | 4231 | 4333 | 4585 |
| 20 | 1532 | 1706 | 1908 | 2119 | 2346 | 2579 | 2808 | 3020 | 3188 | 3299 | 3340 | 3315 | 3247 | 3134 | 2981 | 2808 | 2612 | 2398 | 2171 | 1953 | 1746 | 1560 | 1400 | 1276 | 1177 | 1094 | 1028 | 983 | 954 | 944 | 953 | 987 | 1038 | 1116 | 1219 | 1343 | 1532 |
| 30 | 233 | 258 | 289 | 326 | 372 | 426 | 493 | 559 | 612 | 642 | 652 | 643 | 615 | 579 | 539 | 490 | 440 | 391 | 345 | 302 | 263 | 231 | 207 | 190 | 179 | 172 | 167 | 164 | 165 | 165 | 165 | 168 | 172 | 180 | 191 | 206 | 233 |
| 40 | 72 | 76 | 80 | 85 | 90 | 96 | 101 | 107 | 112 | 117 | 123 | 125 | 124 | 121 | 116 | 109 | 102 | 95 | 89 | 83 | 77 | 72 | 68 | 65 | 63 | 62 | 61 | 61 | 61 | 61 | 61 | 62 | 63 | 65 | 67 | 72 | |
| 50 | 40 | 41 | 41 | 42 | 43 | 44 | 45 | 46 | 46 | 47 | 49 | 49 | 49 | 49 | 48 | 46 | 44 | 43 | 42 | 41 | 40 | 39 | 39 | 38 | 37 | 37 | 37 | 36 | 36 | 36 | 36 | 37 | 37 | 38 | 38 | 40 | |
| 60 | 22 | 24 | 25 | 27 | 28 | 29 | 29 | 30 | 30 | 31 | 31 | 31 | 31 | 30 | 30 | 29 | 28 | 27 | 25 | 24 | 22 | 21 | 19 | 18 | 17 | 16 | 16 | 16 | 16 | 16 | 16 | 17 | 17 | 18 | 19 | 20 | 22 |
| 70 | 7 | 7 | 8 | 8 | 9 | 10 | 10 | 11 | 11 | 11 | 12 | 12 | 11 | 11 | 11 | 10 | 9 | 9 | 8 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 7 |
| 80 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| 90 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 4 | 4 | 3 | 3 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |

Luminaire Report Summary

IESNA: LM-63-2002
[TEST] LUNA 40S V13 515mA 33.61V
[TESTLAB] Zaniboni Light
[ISSUEDATE] 5/8/2025
[MANUFAC] Zaniboni Lighting
[LUMCAT] D3-LU4OS-1830C-3S-WS-Z-0
[LUMINAIRE] D3-LU4OS-1830C-3S-WS-Z-0
[LAMP] WHITE 3K 90 CRI 36 DEGREE SOLITE FILM

FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 10, HORIZONTAL ANGLES: 37
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: METRIC
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.