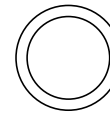
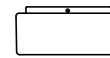




EUREKA

Helios



Fixture #3202

3202-WH-CFD13

One 13W Compact Fluorescent DTT

Photometric Report

| | | | | | |
|-------------------------------------|-------------|----------------------------------|--------|-------|-------|
| Number of lamps: | 1 | Zonal Lumen Summary | | | |
| Lumens per lamp: | 900.00 | Zone | Lumens | %Lamp | %Fixt |
| Input watts: | 18.00 | 0-30 | 76 | 8 | 13 |
| Distribution: | Semi-Direct | 0-40 | 128 | 14 | 22 |
| Efficiency: | 66.1 | 0-60 | 247 | 27 | 41 |
| Photometric type: | C | 0-90 | 390 | 43 | 66 |
| Luminous shape: | Rectangle | 90-120 | 116 | 13 | 19 |
| Units: | Feet | 90-150 | 187 | 21 | 31 |
| Luminous Dimensions: | | 90-180 | 205 | 23 | 34 |
| 0-180 Axis: | 0.672 | 0-180 | 595 | 66 | 100 |
| 90-270 Axis: | 0.672 | Total Luminaire Efficiency = 66% | | | |
| Height: | 0.306 | | | | |
| Spacing Criteria (0): | 1.39 | | | | |
| Spacing Criteria (90): | 1.52 | | | | |
| Spacing Criteria (Four Luminaires): | 1.58 | | | | |

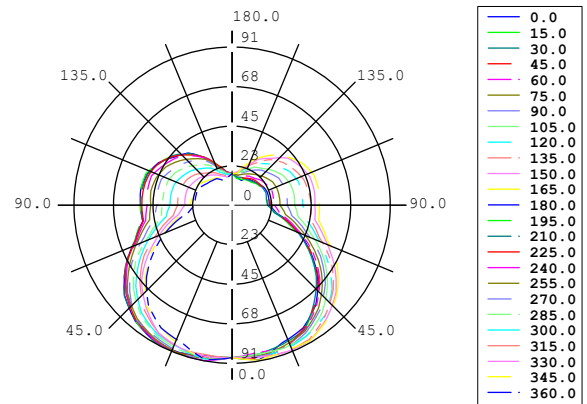
Luminance Data in candela/square meter

| | 0.0 | 45.0 | 90.0 | 135.0 | 180.0 | 225.0 | 270.0 | 315.0 |
|------|------|------|------|-------|-------|-------|-------|-------|
| 0.0 | 2092 | 2092 | 2092 | 2092 | 2092 | 2092 | 2092 | 2092 |
| 45.0 | 1613 | 1516 | 1888 | 1699 | 1942 | 1633 | 1724 | 1429 |
| 55.0 | 1458 | 1383 | 1809 | 1624 | 1910 | 1538 | 1623 | 1266 |
| 65.0 | 1281 | 1230 | 1719 | 1532 | 1859 | 1413 | 1487 | 1067 |
| 75.0 | 1092 | 1077 | 1689 | 1497 | 1900 | 1336 | 1371 | 866 |
| 85.0 | 1036 | 1074 | 1951 | 1696 | 2310 | 1491 | 1468 | 787 |

Coefficients of Utilization

pfc= 0.20

| pcc- pw->0.7 | 0.80 | | | 0.70 | | | 0.50 | | | 0.30 | | | 0.10 | | | 0.0 | | |
|-----------------|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|-----|-----|--|
| | 0.5 | 0.3 | 0.1 | 0.7 | 0.5 | 0.3 | 0.1 | 0.5 | 0.3 | 0.1 | 0.5 | 0.3 | 0.1 | 0.5 | 0.3 | 0.1 | 0.0 | |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 73 | 73 | 73 | 73 | 69 | 69 | 69 | 61 | 61 | 61 | 53 | 53 | 53 | 47 | 47 | 47 | 43 | |
| 1 | 65 | 61 | 58 | 54 | 61 | 57 | 54 | 51 | 50 | 48 | 46 | 44 | 42 | 40 | 38 | 36 | 35 | |
| 2 | 58 | 52 | 47 | 43 | 54 | 49 | 44 | 41 | 43 | 39 | 36 | 37 | 35 | 32 | 32 | 30 | 28 | |
| 3 | 53 | 45 | 39 | 35 | 49 | 42 | 37 | 33 | 37 | 33 | 30 | 32 | 29 | 26 | 28 | 25 | 23 | |
| 4 | 48 | 40 | 34 | 29 | 45 | 37 | 32 | 28 | 33 | 28 | 25 | 28 | 25 | 22 | 25 | 22 | 19 | |
| 5 | 44 | 35 | 29 | 24 | 41 | 33 | 27 | 23 | 29 | 24 | 21 | 25 | 22 | 19 | 22 | 19 | 16 | |
| 6 | 40 | 31 | 25 | 21 | 38 | 29 | 24 | 20 | 26 | 21 | 18 | 23 | 19 | 16 | 20 | 17 | 14 | |
| 7 | 37 | 28 | 22 | 18 | 35 | 27 | 21 | 17 | 23 | 19 | 16 | 21 | 17 | 14 | 18 | 15 | 13 | |
| 8 | 34 | 26 | 20 | 16 | 32 | 24 | 19 | 15 | 21 | 17 | 14 | 19 | 15 | 12 | 16 | 13 | 11 | |
| 9 | 32 | 23 | 18 | 14 | 30 | 22 | 17 | 14 | 20 | 15 | 12 | 17 | 14 | 11 | 15 | 12 | 10 | |
| 10 | 30 | 21 | 16 | 13 | 28 | 20 | 15 | 12 | 18 | 14 | 11 | 16 | 12 | 10 | 14 | 11 | 9 | |



Candela Distribution

| | 0.0 | 15.0 | 30.0 | 45.0 | 60.0 | 75.0 | 90.0 | 105.0 | 120.0 | 135.0 | 150.0 | 165.0 | 180.0 | 195.0 | 210.0 | 225.0 | 240.0 | 255.0 | 270.0 | 285.0 | 300.0 | 315.0 | 330.0 | 345.0 | 360.0 |
|-------|-----|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 |
| 10.0 | 90 | 88 | 87 | 89 | 86 | 88 | 88 | 87 | 89 | 88 | 89 | 90 | 88 | 88 | 88 | 88 | 91 | 89 | 90 | 89 | 90 | 87 | 88 | 90 | 90 |
| 20.0 | 84 | 87 | 85 | 88 | 87 | 86 | 88 | 87 | 89 | 90 | 90 | 89 | 90 | 91 | 90 | 91 | 91 | 90 | 89 | 87 | 88 | 87 | 86 | 84 | |
| 30.0 | 82 | 83 | 83 | 82 | 83 | 84 | 85 | 87 | 89 | 90 | 90 | 90 | 91 | 90 | 89 | 90 | 89 | 88 | 87 | 86 | 85 | 85 | 81 | 82 | |
| 40.0 | 75 | 74 | 73 | 74 | 76 | 77 | 79 | 81 | 83 | 83 | 85 | 86 | 87 | 87 | 87 | 86 | 85 | 85 | 86 | 82 | 81 | 79 | 77 | 76 | 75 |
| 50.0 | 64 | 63 | 63 | 65 | 66 | 68 | 70 | 72 | 75 | 76 | 78 | 79 | 81 | 79 | 81 | 80 | 79 | 79 | 77 | 74 | 72 | 69 | 68 | 65 | 64 |
| 60.0 | 51 | 51 | 51 | 52 | 54 | 56 | 59 | 61 | 63 | 66 | 68 | 70 | 71 | 71 | 71 | 70 | 70 | 68 | 67 | 64 | 61 | 59 | 55 | 53 | 51 |
| 70.0 | 38 | 36 | 38 | 38 | 40 | 42 | 45 | 48 | 52 | 53 | 57 | 58 | 59 | 60 | 59 | 59 | 58 | 57 | 54 | 51 | 49 | 45 | 43 | 39 | 38 |
| 80.0 | 26 | 25 | 25 | 26 | 28 | 31 | 35 | 39 | 43 | 46 | 48 | 51 | 52 | 53 | 52 | 52 | 50 | 48 | 45 | 41 | 39 | 34 | 31 | 29 | 26 |
| 90.0 | 21 | 21 | 20 | 22 | 24 | 28 | 32 | 36 | 41 | 46 | 48 | 50 | 53 | 53 | 53 | 52 | 49 | 47 | 43 | 40 | 36 | 31 | 27 | 24 | 21 |
| 100.0 | 21 | 20 | 20 | 22 | 24 | 28 | 32 | 36 | 41 | 45 | 48 | 51 | 53 | 53 | 53 | 52 | 49 | 48 | 44 | 40 | 36 | 32 | 27 | 23 | 21 |
| 110.0 | 22 | 20 | 21 | 22 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 50 | 52 | 53 | 52 | 51 | 49 | 46 | 43 | 40 | 35 | 31 | 27 | 24 | 22 |
| 120.0 | 21 | 20 | 20 | 21 | 23 | 27 | 31 | 34 | 38 | 41 | 45 | 47 | 49 | 49 | 48 | 48 | 46 | 44 | 40 | 38 | 33 | 30 | 26 | 23 | 21 |
| 130.0 | 19 | 19 | 19 | 20 | 22 | 25 | 28 | 31 | 35 | 38 | 42 | 43 | 43 | 44 | 45 | 44 | 42 | 40 | 37 | 34 | 31 | 28 | 24 | 21 | 19 |
| 140.0 | 18 | 17 | 18 | 19 | 20 | 23 | 26 | 28 | 31 | 34 | 35 | 38 | 39 | 38 | 39 | 38 | 37 | 35 | 34 | 30 | 28 | 24 | 22 | 19 | 18 |
| 150.0 | 18 | 17 | 17 | 18 | 19 | 21 | 23 | 25 | 27 | 28 | 31 | 32 | 31 | 32 | 31 | 32 | 31 | 30 | 29 | 27 | 25 | 22 | 20 | 18 | 18 |
| 160.0 | 15 | 16 | 17 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 23 | 25 | 24 | 25 | 24 | 25 | 23 | 24 | 23 | 22 | 20 | 19 | 18 | 17 | 15 |
| 170.0 | 16 | 16 | 16 | 17 | 18 | 17 | 18 | 19 | 19 | 19 | 20 | 19 | 20 | 19 | 19 | 19 | 19 | 19 | 19 | 18 | 17 | 17 | 17 | 17 | 16 |
| 180.0 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |