Print Form

# Royal Pacific Ltd.
Value, Quality, Innovation

**Royal Pacific Ltd.**
4931 Paseo Del Norte NE
Albuquerque, NM 87113
Ph: 1-800-937-6925
Fax: 1-888-207-9509

## 8130 Series
## 8" Compact Fluorescent Housing
## Photometric Data

| | |
|---|---|
| **Lamp Type** | One 18W Quad Tube, OSRAM |
| **Initial Lumens** | 1250 |
| **Input Wattage** | 120V/27W |
| **Total Effeciency** | 77.4% |

### Zonal Lumen Summary

| Zone | lumens | %Lamp | %Luminaire |
|---|---|---|---|
| 0-30 | 477.3 | 38.2% | 49.3% |
| 0-40 | 762.5 | 61% | 78.8% |
| 0-60 | 893.7 | 71.5% | 92.4% |
| 0-90 | 967.2 | 77.4% | 100% |

Total Efficiency: **77.4%**

### Lumens Per Zone

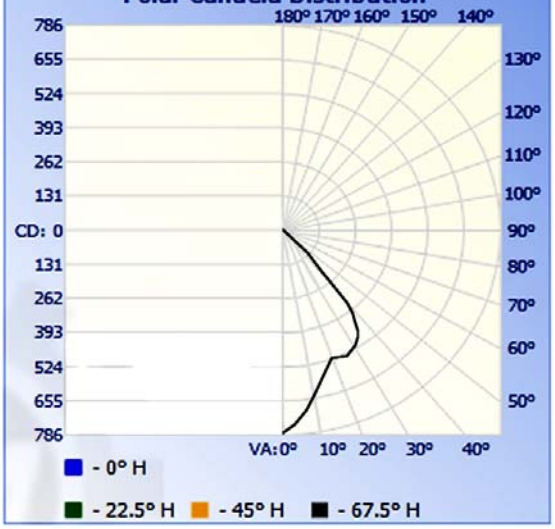
| Zone | Lumens | %Total LU |
|---|---|---|
| 0-10 | 67.2 | 7% |
| 10-20 | 163.5 | 16.9% |
| 20-30 | 246.5 | 25.5% |
| 30-40 | 285.2 | 29.5% |
| 40-50 | 117.1 | 12.1% |
| 50-60 | 14.1 | 1.5% |
| 60-70 | 18.1 | 1.9% |
| 70-80 | 26.4 | 2.7% |
| 80-90 | 29.0 | 3% |

### Illuminance at a Distance

| | Center Beam FC | Field Width | |
|---|---|---|---|
| 0.8ft | 1,132.1 fc | 1.8ft | 1.8ft |
| 1.7ft | 283.0 fc | 3.7ft | 3.5ft |
| 2.5ft | 125.8 fc | 5.5ft | 5.3ft |
| 3.3ft | 70.8 fc | 7.4ft | 7.1ft |
| 4.2ft | 45.3 fc | 9.2ft | 8.8ft |
| 5.0ft | 31.4 fc | 11.0ft | 10.6ft |

Vert. Spread: 95.6° Horiz. Spread: 93.2°

### Polar Candela Distribution




### Confficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance:20%

| RC %: | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RW %: | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 0 | 50 | 30 | 0 | 50 | 30 | 0 | 50 |
| RCR: 0 | 92 | 92 | 92 | 92 | 90 | 90 | 90 | 90 | 86 | 86 | 86 | 82 | 82 | 82 | 79 | 79 | 79 | 77 |
| 1 | 86 | 83 | 80 | 77 | 84 | 81 | 79 | 76 | 78 | 76 | 74 | 75 | 74 | 71 | 72 | 71 | 69 | 71 |
| 2 | 81 | 76 | 72 | 67 | 79 | 74 | 71 | 66 | 72 | 69 | 65 | 69 | 67 | 64 | 67 | 65 | 62 | 66 |
| 3 | 76 | 69 | 65 | 59 | 74 | 68 | 64 | 59 | 66 | 62 | 58 | 64 | 61 | 57 | 62 | 60 | 56 | 61 |
| 4 | 71 | 64 | 58 | 53 | 69 | 63 | 58 | 53 | 61 | 57 | 52 | 59 | 56 | 52 | 58 | 55 | 51 | 57 |
| 5 | 67 | 59 | 53 | 48 | 65 | 58 | 53 | 48 | 57 | 52 | 47 | 55 | 51 | 47 | 54 | 50 | 47 | 53 |
| 6 | 63 | 54 | 49 | 43 | 61 | 54 | 49 | 43 | 52 | 48 | 43 | 51 | 47 | 43 | 50 | 47 | 43 | 50 |
| 7 | 59 | 50 | 45 | 40 | 58 | 50 | 45 | 39 | 49 | 44 | 39 | 48 | 44 | 39 | 47 | 43 | 39 | 46 |
| 8 | 55 | 47 | 41 | 36 | 54 | 46 | 41 | 36 | 45 | 41 | 36 | 45 | 40 | 36 | 44 | 40 | 36 | 43 |
| 9 | 52 | 44 | 38 | 33 | 51 | 43 | 38 | 33 | 42 | 38 | 33 | 42 | 37 | 33 | 41 | 37 | 33 | 41 |
| 10 | 49 | 41 | 36 | 31 | 49 | 40 | 35 | 31 | 40 | 35 | 31 | 39 | 35 | 31 | 39 | 35 | 31 | 38 |

| | |
|---|---|
| Project: | |
| Contact: | |
| Location: | |
| Fixture Type: | |

| Quantity | Remarks |
|---|---|
| | |

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## 8130 Series
## 8" Compact Fluorescent Housing
## Photometric Data

| | |
|---|---|
| **Lamp Type** | One 26W Quad Tube, OSRAM |
| **Initial Lumens** | 1800 |
| **Input Wattage** | 120V/36W |
| **Total Effeciency** | 74.2% |

### Zonal Lumen Summary

| Zone | lumens | %Lamp | %Luminaire |
|---|---|---|---|
| 0-30 | 626.9 | 34.8% | 46.9% |
| 0-40 | 1,012.0 | 56.2% | 75.8% |
| 0-60 | 1,210.3 | 67.2% | 90.6% |
| 0-90 | 1,335.7 | 74.2% | 100% |

Total Efficiency: **74.2%**

### Lumens Per Zone

| Zone | Lumens | %Total LU |
|---|---|---|
| 0-10 | 86.0 | 6.4% |
| 10-20 | 214.4 | 16% |
| 20-30 | 326.5 | 24.4% |
| 30-40 | 385.2 | 28.8% |
| 40-50 | 170.3 | 12.8% |
| 50-60 | 27.9 | 2.1% |
| 60-70 | 34.9 | 2.6% |
| 70-80 | 44.5 | 3.3% |
| 80-90 | 46.0 | 3.4% |

### Confficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance:20%

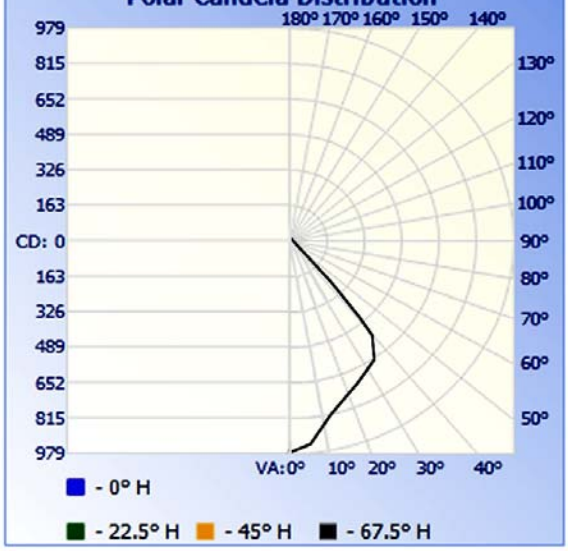
| RC %: | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RW %: | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 0 | 50 | 30 | 0 | 50 | 30 | 0 | 50 |
| RCR: 0 | 88 | 88 | 88 | 88 | 86 | 86 | 86 | 86 | 82 | 82 | 82 | 79 | 79 | 79 | 76 | 76 | 76 | 74 |
| 1 | 82 | 79 | 77 | 73 | 80 | 78 | 75 | 72 | 74 | 72 | 70 | 72 | 70 | 68 | 69 | 68 | 66 | 68 |
| 2 | 77 | 72 | 68 | 63 | 75 | 71 | 67 | 62 | 68 | 65 | 61 | 66 | 63 | 60 | 64 | 61 | 59 | 63 |
| 3 | 72 | 66 | 61 | 55 | 70 | 64 | 60 | 55 | 62 | 59 | 54 | 61 | 57 | 53 | 59 | 56 | 53 | 58 |
| 4 | 67 | 60 | 55 | 49 | 66 | 59 | 54 | 49 | 58 | 53 | 49 | 56 | 52 | 48 | 54 | 51 | 48 | 54 |
| 5 | 63 | 55 | 50 | 44 | 62 | 55 | 50 | 44 | 53 | 49 | 44 | 52 | 48 | 44 | 51 | 47 | 43 | 50 |
| 6 | 59 | 51 | 46 | 40 | 58 | 50 | 45 | 40 | 49 | 45 | 40 | 48 | 44 | 40 | 47 | 43 | 39 | 46 |
| 7 | 56 | 47 | 42 | 37 | 54 | 47 | 42 | 37 | 46 | 41 | 36 | 45 | 41 | 36 | 44 | 40 | 36 | 43 |
| 8 | 52 | 44 | 39 | 33 | 51 | 43 | 38 | 33 | 43 | 38 | 33 | 42 | 38 | 33 | 41 | 37 | 33 | 41 |
| 9 | 49 | 41 | 36 | 31 | 48 | 40 | 35 | 31 | 40 | 35 | 31 | 39 | 35 | 31 | 38 | 34 | 31 | 38 |
| 10 | 47 | 38 | 33 | 28 | 46 | 38 | 33 | 28 | 37 | 33 | 28 | 36 | 32 | 28 | 36 | 32 | 28 | 36 |

### Illuminance at a Distance

| | Center Beam FC | Field Width | |
|---|---|---|---|
| 0.8ft | 1,409.2 fc | 2.0ft | 1.8ft |
| 1.7ft | 352.3 fc | 4.0ft | 3.6ft |
| 2.5ft | 156.6 fc | 6.1ft | 5.4ft |
| 3.3ft | 88.1 fc | 8.1ft | 7.1ft |
| 4.2ft | 56.4 fc | 10.1ft | 8.9ft |
| 5.0ft | 39.1 fc | 12.1ft | 10.7ft |

Vert. Spread: 101.0° Horiz. Spread: 93.9°

### Polar Candela Distribution




| | |
|---|---|
| Project: | |
| Contact: | |
| Location: | |
| Fixture Type: | |

| Quantity | Remarks |
|---|---|
| | |

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## 8130 Series
## 8" Compact Fluorescent Housing
## Photometric Data

### Photometrics Pro Luminaire Report

**Lamp Type:** Two 42W
Lamp Output: 2 lamp(s), rated lamp lumens: 3200
Max Candela: 2,697.2 at Horizontal: 0, Vertical: 15
Input Wattage: 96
Luminous Opening: Rectangle w/Luminous Sides (L: 0.66ft, W: 0.71ft, H: 0.61ft)
Test: PHOTOPIA 2.0.0.17 PHOTOMETRIC REPORT
Photometry : Type C
CIE Class: Direct
Cutoff Class: Cutoff
Nema Type: 5H x 6V

### Flood Summary

| | Efficiency | Lumens | Horiz. Spread | Vert. Spread |
|---|---|---|---|---|
| Field (10%): | 56% | 3,587.1 | 92.9 | 100.1 |
| Beam (50%): | 47.4% | 3,033.0 | 75.4 | 80.8 |
| Total: | 61% | 3,905.5 | | |

### Zonal Lumen Summary

| Zone | Lumens | % Lamp | % Luminaire |
|---|---|---|---|
| 0-30 | 1,978.4 | 30.9% | 50.7% |
| 0-40 | 3,109.1 | 48.6% | 79.7% |
| 0-60 | 3,694.2 | 57.7% | 94.7% |
| 0-90 | 3,900.0 | 60.9% | 100% |

Total Efficiency: **60.9%**

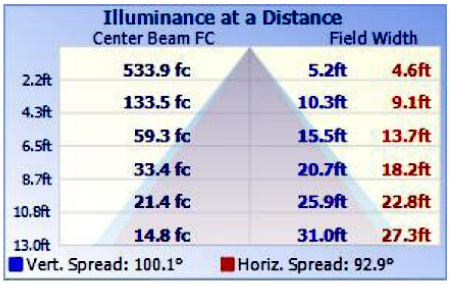
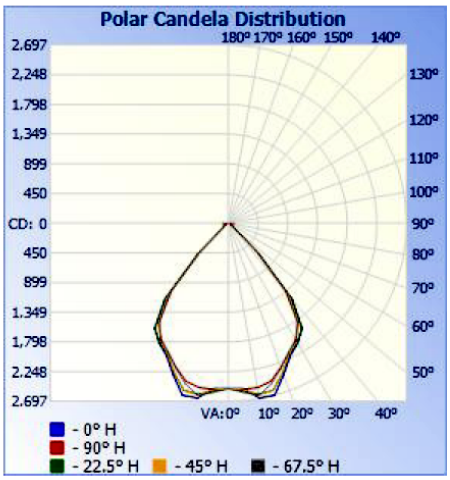
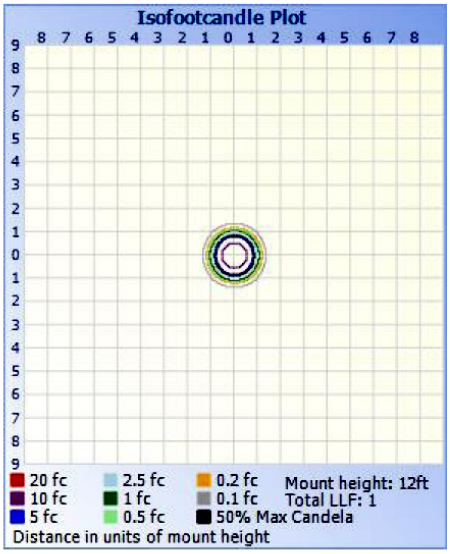
### Lumens Per Zone

| Zone | Lumens | % Total LU | Zone | Lumens | % Total LU |
|---|---|---|---|---|---|
| 0-10 | 245.4 | 6.3% | 90-100 | 0 | 0% |
| 10-20 | 718.9 | 18.4% | 100-110 | 0 | 0% |
| 20-30 | 1,014.1 | 26% | 110-120 | 0 | 0% |
| 30-40 | 1,130.7 | 29% | 120-130 | 0 | 0% |
| 40-50 | 521.8 | 13.4% | 130-140 | 0 | 0% |
| 50-60 | 63.2 | 1.6% | 140-150 | 0 | 0% |
| 60-70 | 63.4 | 1.6% | 150-160 | 0 | 0% |
| 70-80 | 68.5 | 1.8% | 160-170 | 0 | 0% |
| 80-90 | 74.0 | 1.9% | 170-180 | 0 | 0% |

### Roadway Summary

| | | |
|---|---|---|
| Cutoff Classification: | | Cutoff |
| Distribution Range: | | Very Short |
| Max Cd, 90 Deg Vert: | | 84.6 |
| Max Cd, 80 to <90 Deg: | | 86.4 |
| | Lumens | % Of Lamp |
| Downward Street Side: | 1,950.0 | 30.5% |
| Downward House Side: | 1,950.0 | 30.5% |
| Downward Total: | 3,900.0 | 60.9% |
| Upward Street Side: | 0 | 0% |
| Upward House Side: | 0 | 0% |
| Upward Total: | 0 | 0% |
| Total Lumens: | **3,900.0** | **60.9%** |

### Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

| RC %: | *80* | | | | *70* | | | | *50* | | | *30* | | | *10* | | | *0* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RW %: | 70 | 50 | 30 | 0 | 70 | 50 | 30 | 0 | 50 | 30 | 0 | 50 | 30 | 0 | 50 | 30 | 0 | 50 |
| RCR: 0 | 73 | 73 | 73 | 73 | 71 | 71 | 71 | 71 | 68 | 68 | 68 | 65 | 65 | 65 | 62 | 62 | 62 | 61 |
| 1 | 68 | 66 | 64 | 61 | 67 | 65 | 63 | 61 | 62 | 61 | 59 | 60 | 59 | 57 | 58 | 57 | 55 | 57 |
| 2 | 64 | 60 | 57 | 54 | 62 | 59 | 56 | 53 | 57 | 55 | 52 | 55 | 53 | 51 | 54 | 52 | 50 | 53 |
| 3 | 60 | 55 | 52 | 47 | 59 | 54 | 51 | 47 | 53 | 50 | 46 | 51 | 49 | 46 | 50 | 48 | 45 | 49 |
| 4 | 56 | 51 | 47 | 42 | 55 | 50 | 46 | 42 | 49 | 45 | 42 | 47 | 45 | 41 | 46 | 44 | 41 | 46 |
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| 8 | 44 | 37 | 33 | 29 | 43 | 37 | 33 | 29 | 36 | 33 | 29 | 36 | 32 | 29 | 35 | 32 | 29 | 35 |
| 9 | 42 | 35 | 31 | 27 | 41 | 34 | 31 | 27 | 34 | 30 | 27 | 33 | 30 | 27 | 33 | 30 | 27 | 32 |
| 10 | 39 | 32 | 28 | 25 | 39 | 32 | 28 | 25 | 32 | 28 | 25 | 31 | 28 | 25 | 31 | 28 | 25 | 30 |