

# RETRO

4" Retrofit Razor Recessed Downlight

## RZR-RETRO-440

PHOTOMETRICS SHEET

### PHOTOMETRICS

| Nominal size | Model         | Light output | Wattage / Voltage | Selectable color temperature | CRI  |
|--------------|---------------|--------------|-------------------|------------------------------|------|
| 4"           | RZR-RETRO-440 | 810 lm       | 9.5W / 120V       | 27K / 3K / 4K                | 92.5 |

### FOOTCANDLE DIAGRAM

| Mounting height<br>(feet / meters) |  | Footcandles<br>at Nadir | Diameter<br>(feet / meters) |
|------------------------------------|--|-------------------------|-----------------------------|
| 4' / 1.22m                         |  | 18.51                   | 11.38' / 3.47m              |
| 6' / 1.83m                         |  | 8.23                    | 17.07' / 5.2m               |
| 8' / 2.44m                         |  | 4.63                    | 22.77' / 6.94m              |
| 10' / 3.05m                        |  | 2.96                    | 28.46' / 8.67m              |
| 12' / 3.66m                        |  | 2.06                    | 34.15' / 10.41m             |
| 14' / 4.27m                        |  | 1.51                    | 39.84' / 12.14m             |
| 16' / 4.88m                        |  | 1.16                    | 45.53' / 13.88m             |

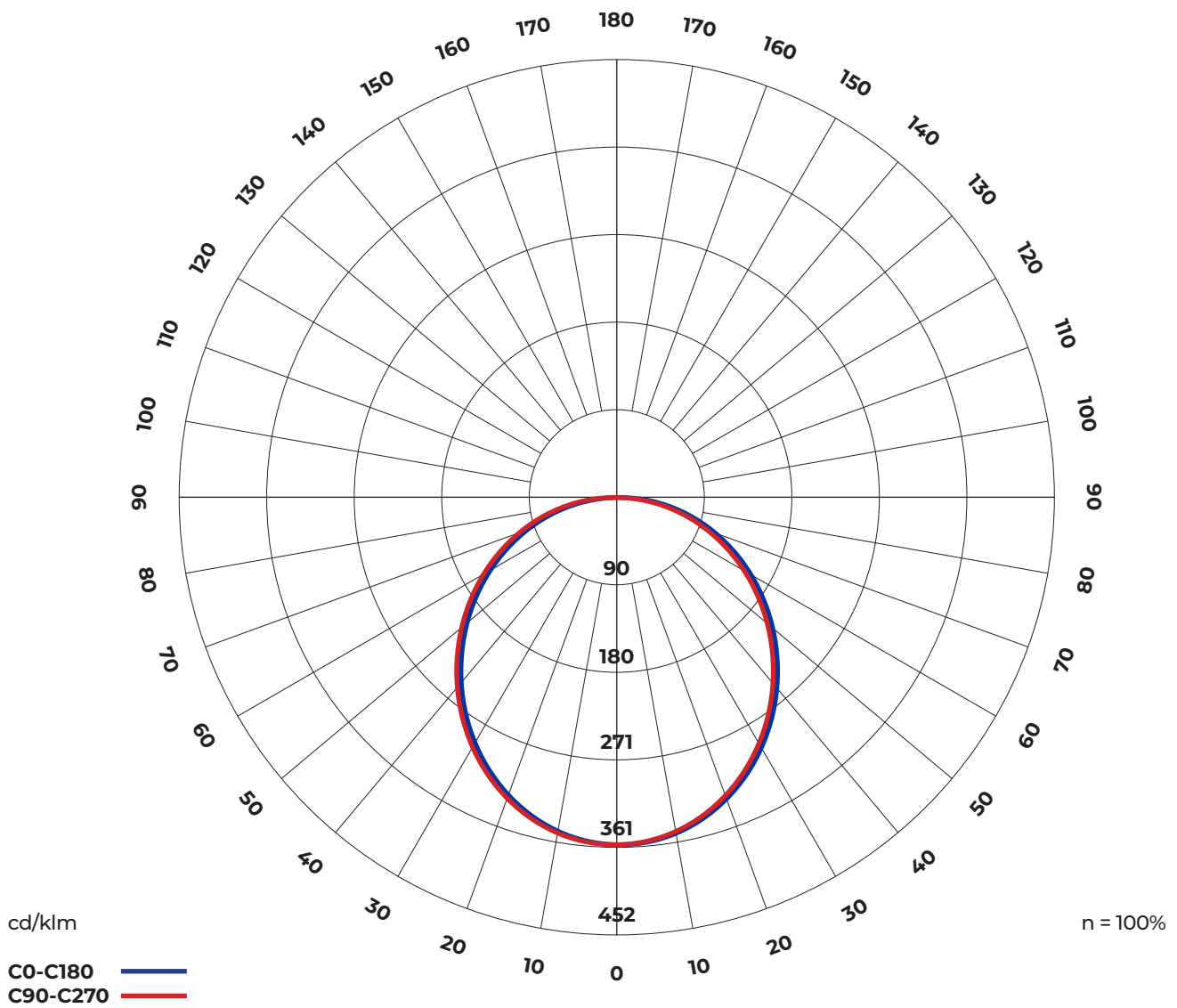
### AVERAGE LUMINANCE (cd/m<sup>2</sup>)

| G/C | 0       | 45      | 90      |
|-----|---------|---------|---------|
| 0   | 58575.1 | 58575.1 | 58575.1 |
| 45  | 53137.0 | 53095.0 | 53067.1 |
| 55  | 50785.5 | 50587.3 | 50630.3 |
| 65  | 47401.2 | 47249.1 | 47260.8 |
| 75  | 41565.3 | 41297.9 | 41488.9 |
| 85  | 27795.1 | 27851.8 | 28022.0 |

## ZONAL LUMEN SUMMARY

| Zone   | Lumens | % of luminaire |
|--------|--------|----------------|
| 0-40   | 370.2  | 45.16          |
| 0-60   | 647.9  | 79.03          |
| 0-90   | 819.8  | 100            |
| 90-180 | 0      | 0              |

## DISTRIBUTION CURVE (cd/klm)



## COEFFICIENTS OF UTILIZATION

| RC  | 0.8    | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0.3 | 0.3 | 0.3 | 0.1 | 0.1 | 0.1 | 0   |
|-----|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RW  | 0.7    | 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   |
| RCR | RF=0.2 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119    | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 114    | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 102 | 100 | 99  | 98  | 97  | 96  | 94  |
| 2   | 109    | 104 | 100 | 97  | 107 | 103 | 99  | 96  | 99  | 97  | 94  | 94  | 94  | 92  | 94  | 92  | 90  | 89  |
| 3   | 104    | 98  | 94  | 90  | 102 | 97  | 93  | 89  | 94  | 91  | 88  | 88  | 89  | 86  | 90  | 87  | 85  | 84  |
| 4   | 100    | 93  | 88  | 84  | 98  | 92  | 87  | 83  | 90  | 86  | 82  | 82  | 84  | 82  | 86  | 83  | 81  | 79  |
| 5   | 95     | 88  | 83  | 79  | 94  | 87  | 82  | 79  | 85  | 81  | 78  | 78  | 80  | 77  | 82  | 79  | 77  | 75  |
| 6   | 92     | 84  | 79  | 75  | 90  | 83  | 78  | 74  | 82  | 77  | 74  | 74  | 76  | 73  | 79  | 76  | 73  | 72  |
| 7   | 88     | 80  | 75  | 71  | 87  | 79  | 74  | 71  | 78  | 74  | 71  | 71  | 73  | 70  | 76  | 72  | 70  | 69  |
| 8   | 85     | 77  | 71  | 68  | 84  | 76  | 71  | 68  | 75  | 71  | 67  | 67  | 70  | 67  | 73  | 70  | 67  | 66  |
| 9   | 82     | 74  | 68  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  | 65  | 67  | 64  | 71  | 67  | 64  | 63  |
| 10  | 79     | 71  | 66  | 62  | 78  | 70  | 65  | 62  | 70  | 65  | 62  | 62  | 65  | 62  | 68  | 64  | 62  | 61  |