

PHOTOMETRICS

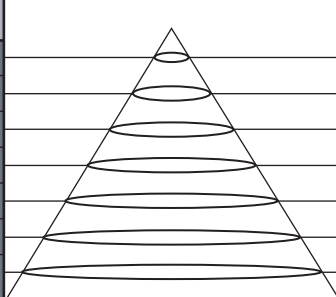
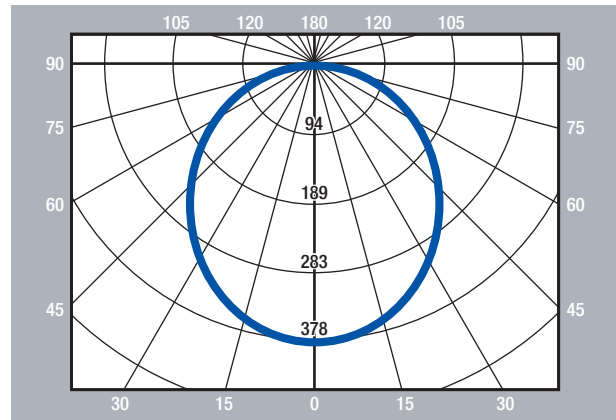
RAZOR

 SERIES

| NOMINAL SIZE | MODEL | LIGHT OUTPUT | WATTAGE VOLTAGE | COLOR TEMPERATURE | CRI | LIFETIME |
|--------------|---------|--------------|-----------------|-------------------|-----|--------------|
| 4" | RZR-420 | 600 LM | 9W/120V | 3000K, 4000K | 80+ | 50,000 HOURS |

RZR-420 FOOTCANDLE DIAGRAM

| MOUNTING HEIGHT (FEET/METERS) | FOOTCANDLES AT NADIR | DIAMETER (FEET/METERS) |
|-------------------------------|----------------------|------------------------|
| 4.00' / 1.22m | 15.49 | 10.46' / 3.19m |
| 6.00' / 1.83m | 6.89 | 15.70' / 4.79m |
| 8.00' / 2.44m | 3.87 | 20.93' / 6.38m |
| 10.0' / 3.05m | 2.48 | 26.16' / 7.97m |
| 12.0' / 3.66m | 1.72 | 31.39' / 9.57m |
| 14.0' / 4.27m | 1.26 | 36.62' / 11.16m |
| 16.0' / 4.88m | 0.97 | 41.85' / 12.76m |


RZR-420 DISTRIBUTION CURVE (cd/klm)

RZR-420 AVERAGE LUMINANCE (cd/m²)

| VERTICAL ANGLE (DEGREES) | HORIZONTAL ANGLE (DEGREES) | | |
|--------------------------|----------------------------|-------|-------|
| | 0 | 45 | 90 |
| 0 | 49318 | 49318 | 49318 |
| 45 | 42737 | 42765 | 42751 |
| 55 | 39887 | 39879 | 39940 |
| 65 | 36294 | 35447 | 35282 |
| 75 | 31208 | 31169 | 31092 |
| 85 | 22256 | 21970 | 18832 |

RZR-420 ZONAL LUMEN SUMMARY

| ZONAL LUMEN SUMMARY | | |
|---------------------|--------|----------------|
| ZONE | LUMENS | % OF LUMINAIRE |
| 0-40 | 305.2 | 46.58 |
| 0-60 | 525.3 | 80.17 |
| 0-90 | 654.8 | 99.93 |
| 90-180 | 0.4 | 0.07 |

RZR-420 COEFFICIENTS OF UTILIZATION

| CEILING CAVITY REFLECTANCE | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| WALL REFLECTANCE | | | | | | | | | | | | | | | | | | |
| ROOM CAVITY RATIO (RCR) | EFFECTIVE FLOOR CAVITY REFLECTANCE 20% ** VALUES ARE EXPRESSED AS LUMENS DELIVERED TO THE TASK SURFACE ** | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 80 | 76 | 82 | 78 | 74 | 79 | 76 | 73 | 70 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 69 | 64 | 73 | 67 | 63 | 70 | 66 | 62 | 60 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 46 | 41 | 39 |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 40 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |