

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L50-930-DIM-UNV-OW-OF-SPC\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM BALLABS TEST NO. 20685.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUE DATE] 07-21-2025

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO

[LUMINAIRE] 1 BRIDGELUX V13 LED 4"RND RECESSED CAST HOUSING DOWNLIGHT

[MORE] OPEN SPEC SPUN ALUMINUM REFLECTOR (WIDE)

[LUMCAT] 4DR-TL-L50-930-DIM-UNV-OW-OF-SPC

[LAMPCAT] V13 BXRE-35E2000

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 4129               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 91                 |
| Total Luminaire Watts           | 45.2               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 1.22               |
| Spacing Criterion (90-270)      | 1.22               |
| Spacing Criterion (Diagonal)    | 0.94               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.37 ft (Diameter) |
| Luminous Width (90-270)         | 0.37 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

### LUMINANCE DATA (cd/sq.m)

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 12521            | 12521             | 12521             |
| 55                  | 3859             | 3859              | 3859              |
| 65                  | 476              | 476               | 476               |
| 75                  | 0                | 0                 | 0                 |
| 85                  | 0                | 0                 | 0                 |

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CANDELA TABULATION

|    | <u>0</u> |
|----|----------|
| 0  | 3543.618 |
| 5  | 3649.339 |
| 10 | 3758.976 |
| 15 | 3837.288 |
| 20 | 4007.617 |
| 25 | 4367.852 |
| 30 | 3422.234 |
| 35 | 601.045  |
| 40 | 156.624  |
| 45 | 86.143   |
| 50 | 45.029   |
| 55 | 21.536   |
| 60 | 9.789    |
| 65 | 1.958    |
| 70 | 1.958    |
| 75 | 0.000    |
| 80 | 0.000    |
| 85 | 0.000    |
| 90 | 0.000    |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1448.14 | N.A.  | 35.10  |
| 0-30    | 3312.42 | N.A.  | 80.20  |
| 0-40    | 4031.29 | N.A.  | 97.60  |
| 0-60    | 4124.45 | N.A.  | 99.90  |
| 0-80    | 4128.81 | N.A.  | 100.00 |
| 0-90    | 4128.81 | N.A.  | 100.00 |
| 10-90   | 3777.81 | N.A.  | 91.50  |
| 20-40   | 2583.14 | N.A.  | 62.60  |
| 20-50   | 2654.6  | N.A.  | 64.30  |
| 40-70   | 97.02   | N.A.  | 2.30   |
| 60-80   | 4.36    | N.A.  | 0.10   |
| 70-80   | 0.51    | N.A.  | 0.00   |
| 80-90   | 0.00    | N.A.  | 0.00   |
| 90-110  | 0.00    | N.A.  | 0.00   |
| 90-120  | 0.00    | N.A.  | 0.00   |
| 90-130  | 0.00    | N.A.  | 0.00   |
| 90-150  | 0.00    | N.A.  | 0.00   |
| 90-180  | 0.00    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 4128.81 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 351.01  |
| 10-20   | 1097.14 |
| 20-30   | 1864.27 |
| 30-40   | 718.87  |
| 40-50   | 71.46   |
| 50-60   | 21.71   |
| 60-70   | 3.85    |
| 70-80   | 0.51    |
| 80-90   | 0.00    |
| 90-100  | 0.00    |
| 100-110 | 0.00    |
| 110-120 | 0.00    |
| 120-130 | 0.00    |
| 130-140 | 0.00    |
| 140-150 | 0.00    |
| 150-160 | 0.00    |
| 160-170 | 0.00    |
| 170-180 | 0.00    |

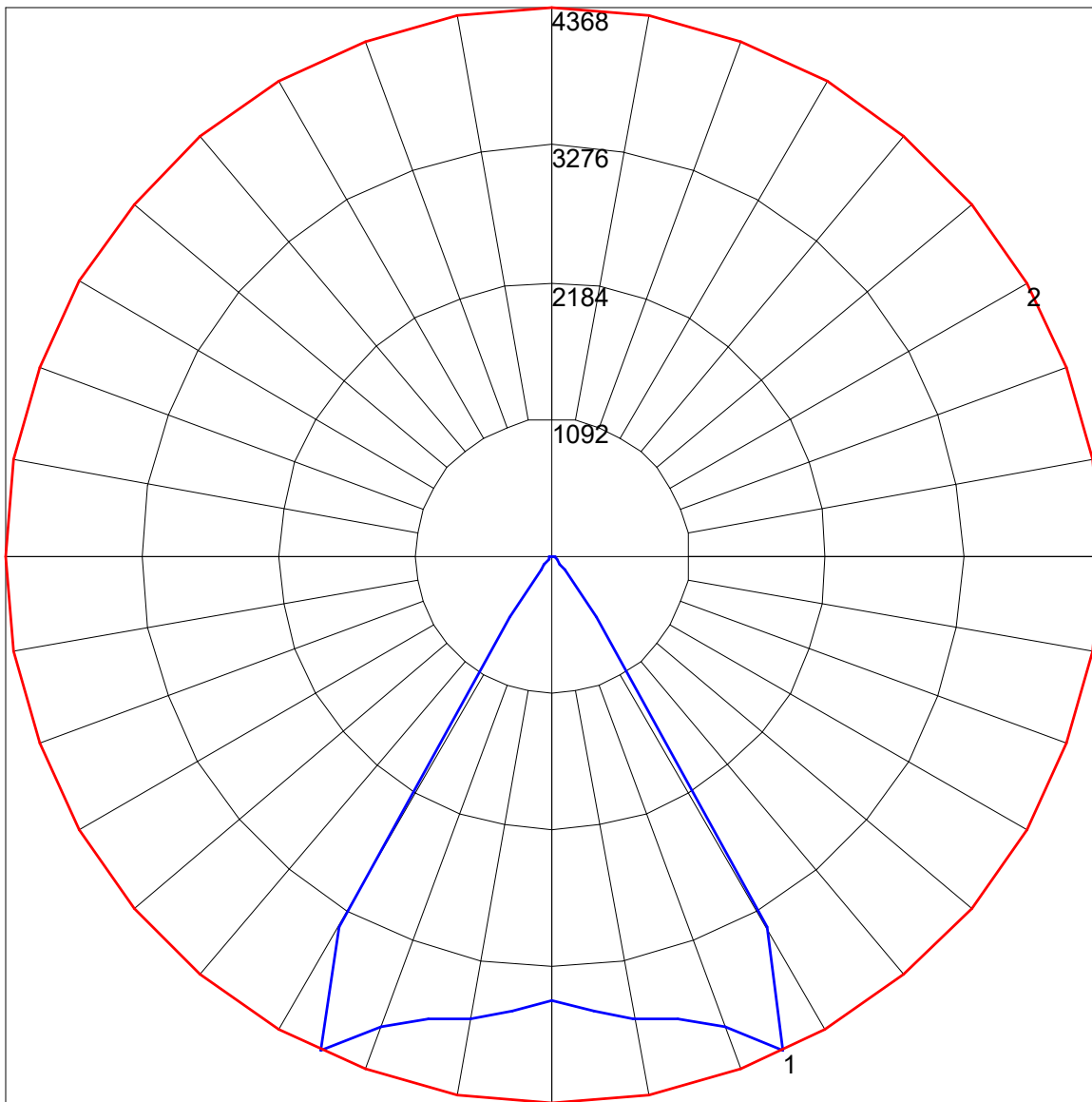
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

| RC | 80  |     |     |     | 70  |     |     |     | 50  |     |     | 30  |     |     | 10  |     |     | 0   |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RW | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0   |
| 0  | 416 | 416 | 416 | 416 | 407 | 407 | 407 | 407 | 388 | 388 | 388 | 372 | 372 | 372 | 357 | 357 | 357 | 350 |
| 1  | 397 | 388 | 380 | 372 | 389 | 381 | 373 | 366 | 366 | 360 | 355 | 353 | 349 | 344 | 341 | 338 | 334 | 328 |
| 2  | 379 | 362 | 349 | 337 | 371 | 356 | 344 | 333 | 345 | 335 | 326 | 335 | 326 | 319 | 325 | 318 | 312 | 307 |
| 3  | 360 | 339 | 322 | 308 | 353 | 334 | 318 | 306 | 325 | 312 | 301 | 316 | 305 | 296 | 308 | 300 | 292 | 286 |
| 4  | 343 | 317 | 298 | 284 | 336 | 313 | 296 | 282 | 306 | 291 | 279 | 299 | 286 | 276 | 292 | 282 | 273 | 268 |
| 5  | 326 | 298 | 278 | 263 | 320 | 294 | 276 | 262 | 288 | 272 | 260 | 282 | 268 | 257 | 277 | 265 | 255 | 250 |
| 6  | 310 | 280 | 259 | 245 | 305 | 277 | 258 | 244 | 272 | 255 | 242 | 267 | 252 | 241 | 262 | 249 | 239 | 234 |
| 7  | 295 | 263 | 243 | 228 | 290 | 261 | 241 | 228 | 256 | 239 | 226 | 252 | 237 | 225 | 248 | 235 | 224 | 219 |
| 8  | 280 | 248 | 228 | 213 | 276 | 246 | 227 | 213 | 242 | 225 | 212 | 239 | 223 | 211 | 235 | 221 | 210 | 206 |
| 9  | 267 | 234 | 214 | 200 | 263 | 232 | 213 | 200 | 229 | 211 | 199 | 226 | 210 | 198 | 223 | 208 | 198 | 193 |
| 10 | 255 | 221 | 201 | 188 | 251 | 220 | 201 | 188 | 217 | 199 | 187 | 214 | 198 | 187 | 212 | 197 | 186 | 182 |

POLAR GRAPH



Maximum Candela = 4367.852 Located At Horizontal Angle = 0, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)