



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6AR-L30-835-DIM-UNV-OM-OF-CS_0 DEGREE TILT.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from BALLABS TEST NO. 20392.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 20-JUL-2020

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 6" SHORT HEATSINK 6" RND ADJ DOWNLIGHT @ 0 TILT

[MORE] TILT ACRYLIC MED TIR OPTIC & 6" OPEN ASYM SEMI-SPEC TRIM

[LUMCAT] 6AR-L30-835-DIM-UNV-OM-OF-CS_0 DEG TILT

[LAMPCAT] BXRE-35E2000

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Industrial, Office, Direct, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2915 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 93 |
| Total Luminaire Watts | 31.3 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.62 |
| Spacing Criterion (90-270) | 0.58 |
| Spacing Criterion (Diagonal) | 0.50 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.50 ft (Diameter) |
| Luminous Width (90-270) | 0.50 ft (Diameter) |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1546 | 1546 | 1546 |
| 55 | 0 | 0 | 0 |
| 65 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 0 | 8951.688 | 8951.688 | 8951.688 | 8951.688 | 8951.688 | 8951.688 | 8951.688 | 8951.688 | 8951.688 |
| 5 | 8931.732 | 8896.096 | 8856.184 | 8793.466 | 8746.426 | 8703.664 | 8678.006 | 8668.028 | 8666.602 |
| 10 | 8427.131 | 8417.153 | 8294.566 | 8160.575 | 8013.756 | 7871.214 | 7668.803 | 7608.935 | 7464.967 |
| 15 | 6404.448 | 6414.426 | 6243.375 | 5993.925 | 5584.827 | 5205.663 | 4803.692 | 4480.120 | 4147.996 |
| 20 | 2838.027 | 2926.404 | 2796.690 | 2609.959 | 2524.433 | 2133.866 | 1848.780 | 1691.983 | 1569.396 |
| 25 | 1050.540 | 1054.817 | 1029.159 | 980.694 | 906.572 | 836.726 | 766.880 | 677.078 | 672.802 |
| 30 | 468.966 | 474.668 | 458.988 | 441.883 | 420.501 | 390.567 | 359.208 | 334.976 | 320.721 |
| 35 | 212.389 | 216.665 | 206.687 | 191.007 | 189.582 | 178.179 | 165.350 | 153.946 | 148.245 |
| 40 | 85.526 | 89.802 | 82.675 | 79.824 | 74.122 | 71.271 | 64.144 | 62.719 | 59.868 |
| 45 | 19.956 | 19.956 | 19.956 | 18.531 | 19.956 | 19.956 | 18.531 | 17.105 | 15.680 |
| 50 | 1.425 | 2.851 | 1.425 | 1.425 | 2.851 | 0.000 | 1.425 | 2.851 | 1.425 |
| 55 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 60 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 65 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 70 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 75 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 80 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 85 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 6AR-L30-835-DIM-UNV-OM-OF-CS_0 DEGREE TILT.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 2258.57 | N.A. | 77.50 |
| 0-30 | 2761.81 | N.A. | 94.80 |
| 0-40 | 2892.74 | N.A. | 99.20 |
| 0-60 | 2914.66 | N.A. | 100.00 |
| 0-80 | 2914.66 | N.A. | 100.00 |
| 0-90 | 2914.66 | N.A. | 100.00 |
| 10-90 | 2103.08 | N.A. | 72.20 |
| 20-40 | 634.16 | N.A. | 21.80 |
| 20-50 | 655.70 | N.A. | 22.50 |
| 40-70 | 21.92 | N.A. | 0.80 |
| 60-80 | 0.00 | N.A. | 0.00 |
| 70-80 | 0.00 | 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 | 2914.66 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 811.58 |
| 10-20 | 1447.00 |
| 20-30 | 503.24 |
| 30-40 | 130.93 |
| 40-50 | 21.53 |
| 50-60 | 0.39 |
| 60-70 | 0.00 |
| 70-80 | 0.00 |
| 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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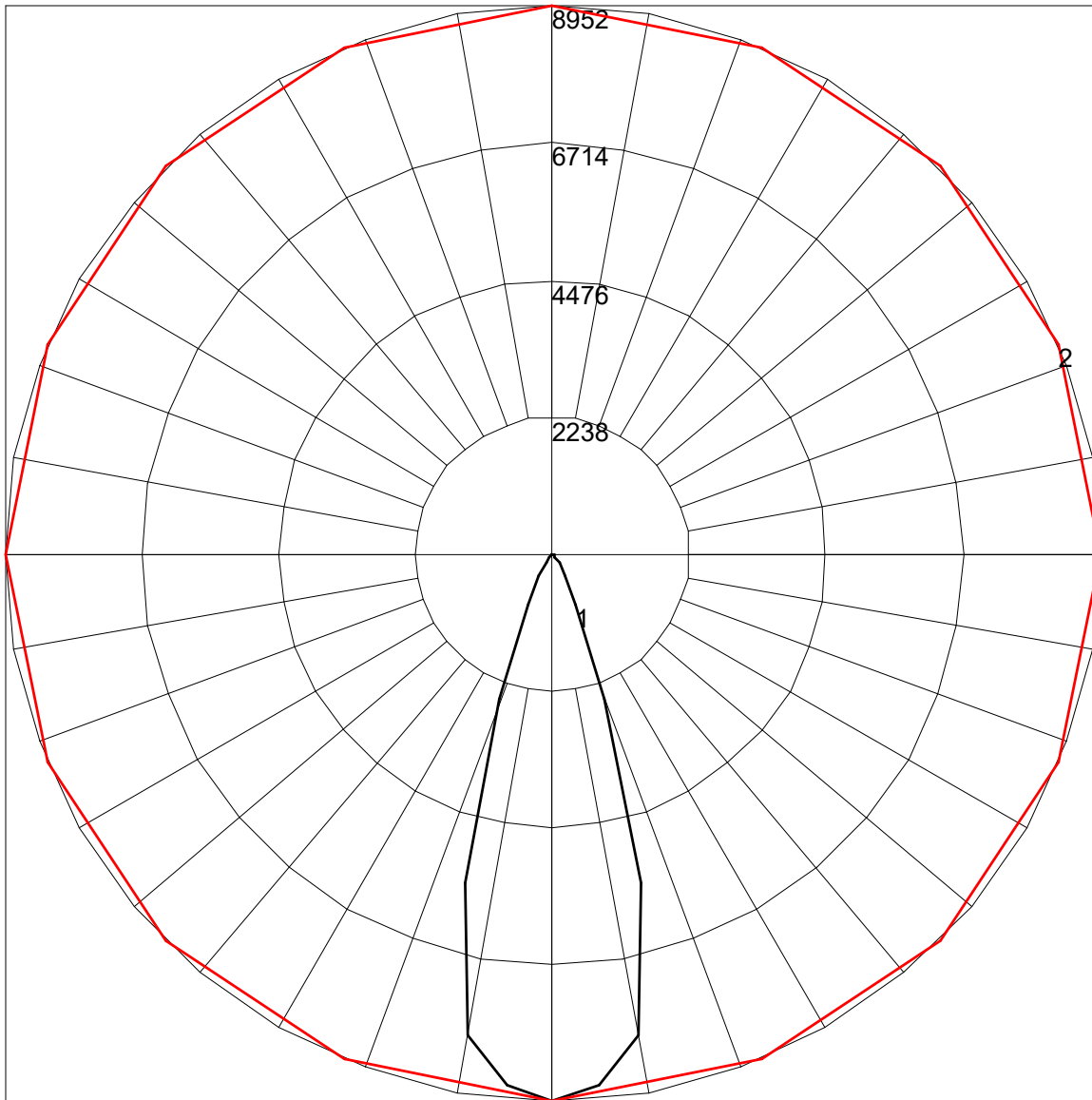
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 339 | 339 | 339 | 339 | 331 | 331 | 331 | 331 | 317 | 317 | 317 | 303 | 303 | 303 | 291 | 291 | 291 | 285 |
| 1 | 327 | 321 | 316 | 310 | 321 | 315 | 310 | 306 | 304 | 300 | 296 | 293 | 290 | 287 | 284 | 281 | 279 | 274 |
| 2 | 316 | 305 | 297 | 289 | 310 | 301 | 293 | 286 | 292 | 285 | 280 | 284 | 279 | 274 | 276 | 272 | 268 | 264 |
| 3 | 305 | 292 | 281 | 273 | 300 | 288 | 278 | 270 | 281 | 273 | 266 | 274 | 268 | 262 | 268 | 263 | 258 | 255 |
| 4 | 295 | 279 | 268 | 259 | 291 | 276 | 266 | 257 | 271 | 262 | 254 | 265 | 258 | 252 | 261 | 254 | 249 | 245 |
| 5 | 286 | 268 | 256 | 247 | 282 | 266 | 255 | 246 | 261 | 252 | 244 | 257 | 249 | 242 | 253 | 246 | 240 | 237 |
| 6 | 277 | 258 | 246 | 237 | 273 | 256 | 245 | 236 | 253 | 242 | 235 | 249 | 240 | 233 | 246 | 238 | 232 | 229 |
| 7 | 268 | 249 | 237 | 228 | 265 | 248 | 236 | 227 | 244 | 234 | 226 | 241 | 232 | 225 | 239 | 230 | 224 | 221 |
| 8 | 260 | 241 | 228 | 220 | 258 | 239 | 228 | 219 | 237 | 226 | 219 | 234 | 225 | 218 | 232 | 223 | 217 | 214 |
| 9 | 253 | 233 | 221 | 212 | 250 | 232 | 220 | 212 | 229 | 219 | 211 | 227 | 218 | 211 | 225 | 217 | 210 | 207 |
| 10 | 246 | 225 | 213 | 205 | 243 | 224 | 213 | 205 | 222 | 212 | 205 | 221 | 211 | 204 | 219 | 210 | 204 | 201 |

POLAR GRAPH



Maximum Candela = 8951.688 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)