



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6DS-L60-835-DIM-LW-OF-WH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN from BALLABS TEST NO. 20349.0

[TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC

[ISSUEDATE] 24-APR-2018

[MANUFAC] WILLIAMS INDOOR

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

[LUMINAIRE] GEN7 V13 LED 6"SHORT HEATSINK 6"SQ CAST HOUSING DOWNLIGHT

[MORE] WHITE MIXING CHAMBER & 6"CAST WHITE FLUSH TRIM w/SOLITE

[MORE] LENS

[LUMCAT] 6DS-L60-835-DIM-LW-OF-WH

[_SEARCH_SOURCETYPE] LED

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

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 6009 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 93 |
| Total Luminaire Watts | 64.6 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.04 |
| Spacing Criterion (90-270) | 1.06 |
| Spacing Criterion (Diagonal) | 1.10 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 0.50 ft |
| Luminous Width (90-270) | 0.50 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 55951 | 64573 | 54719 |
| 55 | 43598 | 44683 | 43165 |
| 65 | 30322 | 30322 | 29439 |
| 75 | 19228 | 18747 | 18266 |
| 85 | 4282 | 2855 | 5710 |

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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> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 4057.897 | 4057.897 | 4057.897 | 4057.897 | 4057.897 |
| 5 | 4069.466 | 4049.220 | 4049.220 | 4046.328 | 4055.004 |
| 10 | 4031.866 | 4014.512 | 4011.620 | 3997.158 | 4020.297 |
| 15 | 3976.912 | 3947.989 | 3924.851 | 3913.282 | 3924.851 |
| 20 | 3780.236 | 3820.728 | 3840.974 | 3788.913 | 3739.744 |
| 25 | 3311.683 | 3404.237 | 3652.975 | 3438.945 | 3326.145 |
| 30 | 2472.916 | 2762.146 | 3117.899 | 2782.392 | 2475.809 |
| 35 | 1515.565 | 1825.041 | 2443.993 | 1723.811 | 1521.350 |
| 40 | 1145.351 | 1258.150 | 1674.642 | 1208.981 | 1130.889 |
| 45 | 919.751 | 974.705 | 1061.474 | 948.674 | 899.505 |
| 50 | 737.536 | 769.352 | 792.490 | 751.998 | 737.536 |
| 55 | 581.352 | 581.352 | 595.814 | 584.245 | 575.568 |
| 60 | 422.276 | 425.168 | 419.383 | 419.383 | 428.060 |
| 65 | 297.907 | 297.907 | 297.907 | 295.015 | 289.230 |
| 70 | 196.676 | 193.784 | 182.215 | 190.892 | 193.784 |
| 75 | 115.692 | 112.800 | 112.800 | 109.907 | 109.907 |
| 80 | 63.631 | 57.846 | 54.954 | 54.954 | 54.954 |
| 85 | 8.677 | 11.569 | 5.785 | 8.677 | 11.569 |
| 90 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1494.44 | N.A. | 24.90 |
| 0-30 | 3044.93 | N.A. | 50.70 |
| 0-40 | 4264.97 | N.A. | 71.00 |
| 0-60 | 5566.41 | N.A. | 92.60 |
| 0-80 | 5988.54 | N.A. | 99.70 |
| 0-90 | 6008.89 | N.A. | 100.00 |
| 10-90 | 5623.46 | N.A. | 93.60 |
| 20-40 | 2770.53 | N.A. | 46.10 |
| 20-50 | 3546.08 | N.A. | 59.00 |
| 40-70 | 1599.29 | N.A. | 26.60 |
| 60-80 | 422.13 | N.A. | 7.00 |
| 70-80 | 124.27 | N.A. | 2.10 |
| 80-90 | 20.35 | N.A. | 0.30 |
| 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 | 6008.89 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 385.43 |
| 10-20 | 1109.02 |
| 20-30 | 1550.48 |
| 30-40 | 1220.04 |
| 40-50 | 775.56 |
| 50-60 | 525.88 |
| 60-70 | 297.86 |
| 70-80 | 124.27 |
| 80-90 | 20.35 |
| 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 |

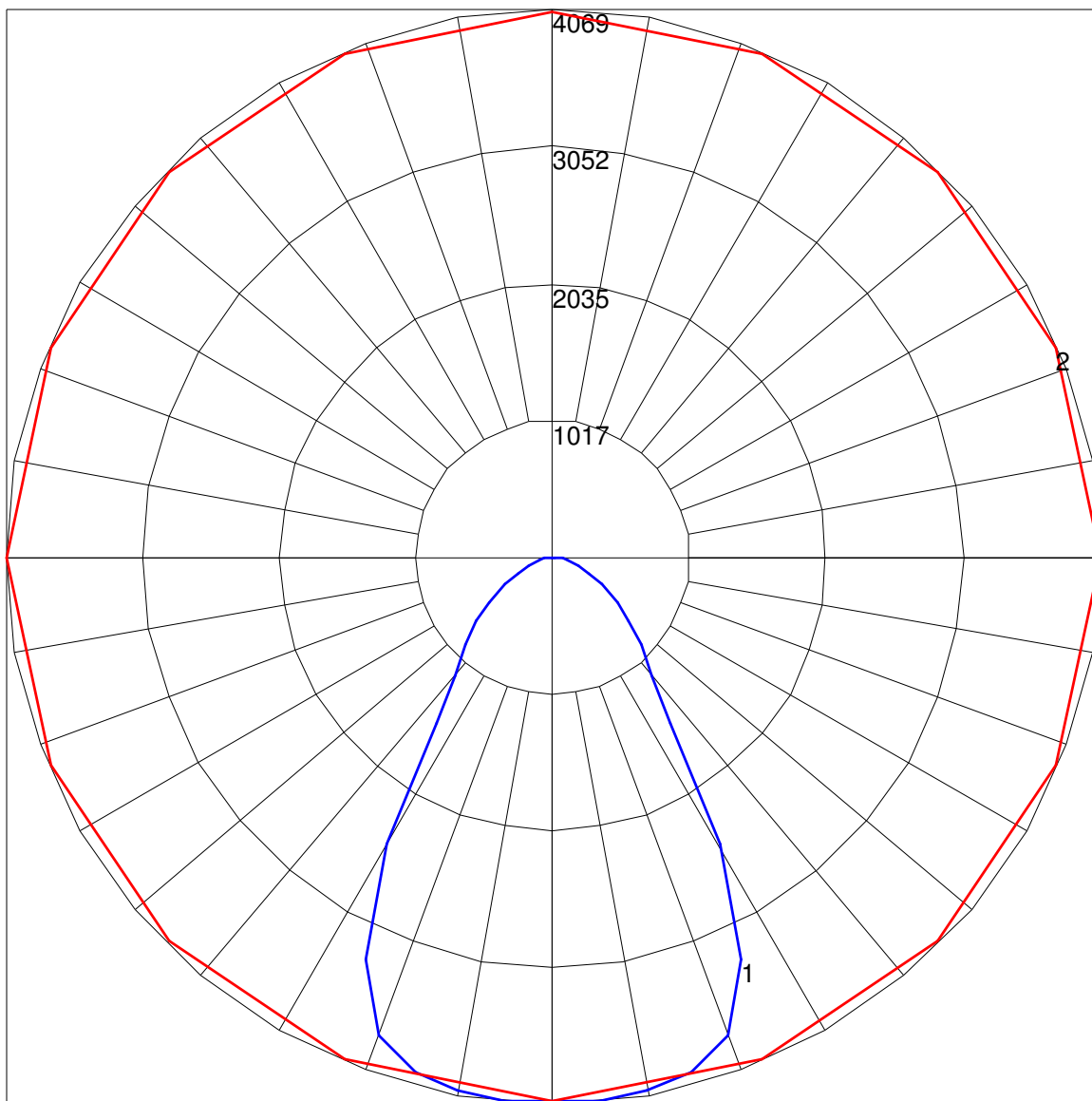
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 344 | 344 | 344 | 344 | 336 | 336 | 336 | 336 | 321 | 321 | 321 | 308 | 308 | 308 | 295 | 295 | 295 | 289 |
| 1 | 323 | 313 | 304 | 295 | 316 | 306 | 298 | 291 | 295 | 288 | 282 | 284 | 278 | 273 | 273 | 269 | 265 | 260 |
| 2 | 301 | 283 | 268 | 256 | 295 | 278 | 265 | 253 | 268 | 257 | 247 | 260 | 250 | 242 | 251 | 244 | 237 | 231 |
| 3 | 281 | 258 | 239 | 225 | 275 | 253 | 236 | 223 | 245 | 231 | 219 | 238 | 226 | 216 | 231 | 221 | 212 | 207 |
| 4 | 263 | 235 | 215 | 200 | 257 | 232 | 213 | 199 | 225 | 209 | 196 | 219 | 205 | 194 | 213 | 201 | 191 | 186 |
| 5 | 246 | 216 | 195 | 179 | 241 | 213 | 193 | 179 | 207 | 190 | 177 | 202 | 187 | 175 | 197 | 184 | 174 | 168 |
| 6 | 231 | 199 | 178 | 163 | 226 | 196 | 176 | 162 | 192 | 174 | 161 | 187 | 171 | 159 | 183 | 169 | 158 | 153 |
| 7 | 217 | 184 | 163 | 148 | 212 | 182 | 162 | 148 | 178 | 160 | 147 | 174 | 158 | 146 | 171 | 156 | 145 | 140 |
| 8 | 204 | 171 | 150 | 136 | 200 | 169 | 149 | 136 | 166 | 148 | 135 | 162 | 146 | 134 | 159 | 145 | 134 | 129 |
| 9 | 192 | 159 | 139 | 125 | 189 | 158 | 138 | 125 | 155 | 137 | 125 | 152 | 136 | 124 | 149 | 135 | 124 | 119 |
| 10 | 182 | 149 | 129 | 116 | 179 | 148 | 129 | 116 | 145 | 128 | 116 | 143 | 127 | 115 | 140 | 126 | 115 | 110 |

POLAR GRAPH



Maximum Candela = 4069.466 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)