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Floodlight Distribution Test Report

Relevant Standards

IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)

Prepared For

Kichler Lighting

7711 Pleasant Valley Rd
Cleveland, OH 44131-8010
United States

Catalog Number

CTR170465-17 (low)

Order Number

12055963

Test Number

12055963.13

Test Date

2017-12-04

Prepared By

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Approved By

Justin Benner, Project Handler

The results contained in this report pertain only to the tested sample.

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Luminaire Description: Brown formed aluminum housing, frosted patterned glass lens enclosure
Lamp: One white LED
Mounting: Post
Ballast/Driver: Integrated

Luminaire



Luminaire Characteristics

Luminous Diameter: 2.50 in.
Luminous Height: 1.250 in.

Summary of Results

| | |
|-------------------------|--------------|
| Total Luminaire Output: | 413.2 Lumens |
| Luminaire Efficacy: | 78.6 lm/w |
| Maximum Candela: | 361 Candela |

Test Conditions

| | |
|-------------------|-----------|
| Test Temperature: | 24.8 °C |
| Voltage: | 12.00 VAC |
| Current: | 0.7289 A |
| Power: | 5.260 W |
| Power Factor: | 0.601 |
| Frequency: | 60 Hz |
| Current THD: | 127 % |

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

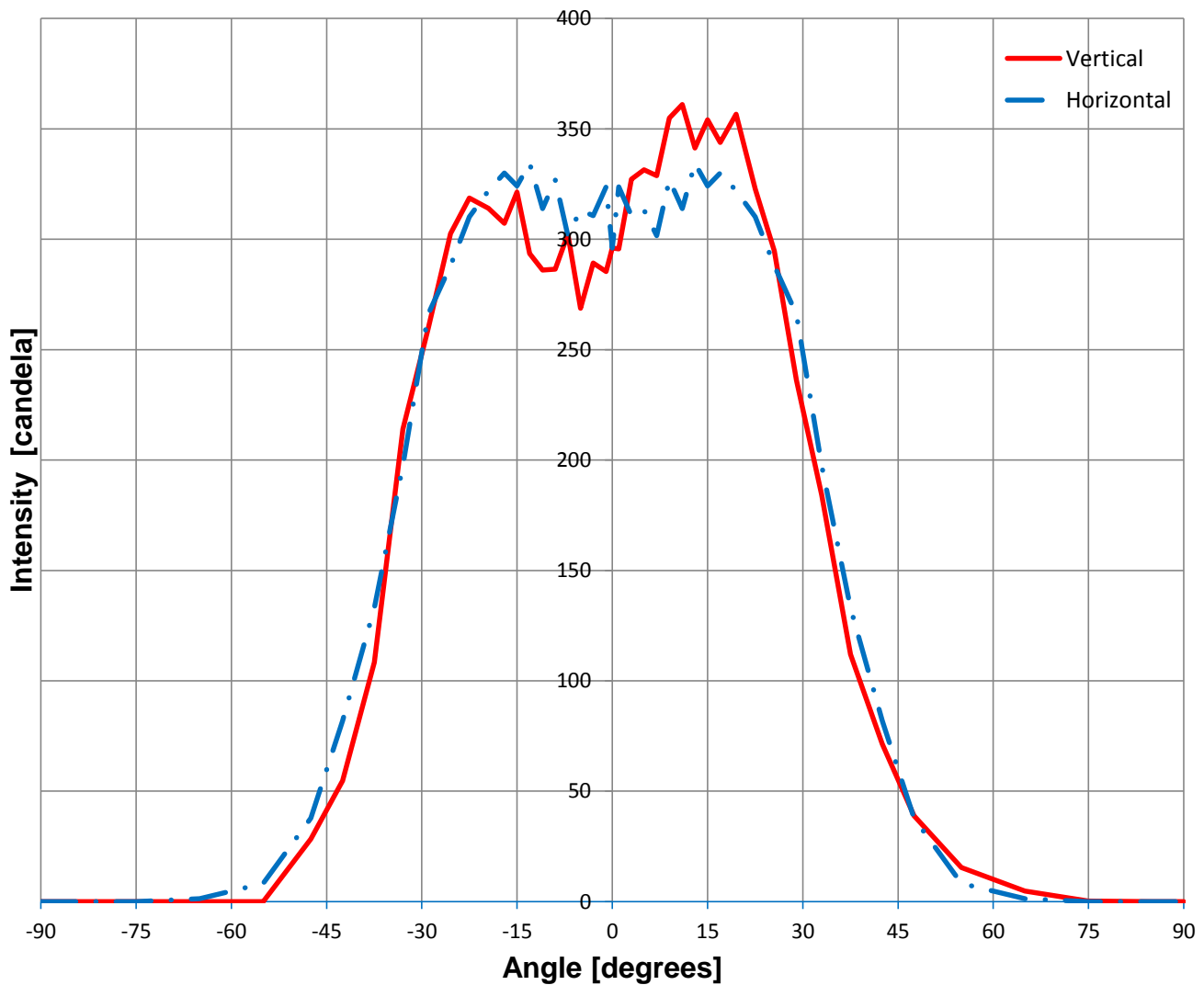
Distribution Test Conditions

| Temperature | Voltage | Current | Power | Power Factor | Frequency | Current THD |
|-------------|-----------|----------|---------|--------------|-----------|-------------|
| 24.8 °C | 12.00 VAC | 0.7289 A | 5.260 W | 0.601 | 60 Hz | 127 % |

Summary of Results

| | | | |
|---------------------|------------------|------------------|-----------------|
| Total Lumen Output: | 413.2 Lumens | Maximum Candela: | 361.0 Candela |
| Luminaire Efficacy: | 78.6 Lumens/Watt | Maximum Angle: | 0 H 11 V |
| Field Lumens: | 395.1 Lumens | Field Angle : | 97.2 H X 94.4 V |
| Beam Lumens: | 306.4 Lumens | Beam Angle : | 65.2 H X 67.7 V |
| Spill Light Lumens: | 18.1 Lumens | IESNA Type: | 5 H X 5 V |

Maximum Candlepower Plot





Candela Tabulation

Lateral Angle (Degrees)

| | 0 | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 | 19.5 |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 85.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75.0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 65.0 | 5 | 5 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |
| 55.0 | 15 | 17 | 19 | 20 | 19 | 18 | 18 | 18 | 18 | 17 | 16 |
| 47.5 | 39 | 41 | 44 | 45 | 45 | 44 | 43 | 42 | 39 | 36 | 34 |
| 42.5 | 71 | 74 | 80 | 81 | 79 | 75 | 72 | 73 | 68 | 63 | 59 |
| 37.5 | 112 | 119 | 131 | 129 | 126 | 123 | 117 | 112 | 106 | 99 | 94 |
| 33.0 | 184 | 189 | 194 | 187 | 187 | 183 | 177 | 170 | 158 | 144 | 134 |
| 29.0 | 236 | 244 | 255 | 251 | 251 | 235 | 228 | 216 | 211 | 196 | 173 |
| 25.5 | 295 | 295 | 299 | 304 | 291 | 271 | 275 | 266 | 247 | 224 | 217 |
| 22.5 | 323 | 331 | 329 | 328 | 320 | 314 | 306 | 292 | 284 | 263 | 242 |
| 19.5 | 357 | 347 | 352 | 357 | 336 | 334 | 325 | 312 | 319 | 298 | 274 |
| 17.0 | 344 | 340 | 353 | 346 | 345 | 352 | 343 | 334 | 332 | 315 | 284 |
| 15.0 | 354 | 339 | 352 | 341 | 345 | 332 | 336 | 342 | 345 | 323 | 311 |
| 13.0 | 341 | 351 | 354 | 342 | 350 | 340 | 340 | 349 | 333 | 330 | 308 |
| 11.0 | 361 | 337 | 339 | 345 | 332 | 343 | 341 | 336 | 334 | 323 | 318 |
| 9.0 | 355 | 330 | 329 | 322 | 332 | 336 | 340 | 342 | 328 | 331 | 328 |
| 7.0 | 329 | 326 | 324 | 324 | 334 | 332 | 343 | 332 | 333 | 338 | 315 |
| 5.0 | 331 | 328 | 319 | 315 | 318 | 329 | 337 | 318 | 331 | 332 | 325 |
| 3.0 | 327 | 300 | 312 | 331 | 321 | 315 | 329 | 324 | 333 | 330 | 330 |
| 1.0 | 296 | 303 | 313 | 322 | 319 | 322 | 322 | 321 | 326 | 336 | 332 |
| 0.0 | 296 | 324 | 311 | 313 | 302 | 327 | 314 | 334 | 324 | 330 | 322 |
| -1.0 | 285 | 302 | 301 | 301 | 330 | 314 | 315 | 323 | 317 | 329 | 319 |
| -3.0 | 289 | 295 | 304 | 314 | 318 | 313 | 334 | 333 | 322 | 331 | 320 |
| -5.0 | 269 | 287 | 309 | 312 | 307 | 328 | 320 | 337 | 321 | 331 | 319 |
| -7.0 | 302 | 289 | 296 | 299 | 305 | 316 | 318 | 329 | 324 | 325 | 318 |
| -9.0 | 286 | 301 | 297 | 306 | 306 | 319 | 321 | 325 | 325 | 326 | 318 |
| -11.0 | 286 | 301 | 310 | 308 | 316 | 329 | 332 | 323 | 321 | 327 | 308 |
| -13.0 | 293 | 294 | 302 | 300 | 314 | 322 | 313 | 326 | 335 | 314 | 301 |
| -15.0 | 321 | 308 | 312 | 314 | 313 | 325 | 316 | 321 | 317 | 315 | 299 |
| -17.0 | 307 | 323 | 320 | 320 | 324 | 312 | 317 | 324 | 308 | 317 | 290 |
| -19.5 | 314 | 316 | 322 | 319 | 317 | 303 | 310 | 303 | 299 | 286 | 266 |
| -22.5 | 319 | 310 | 300 | 299 | 305 | 298 | 298 | 289 | 281 | 264 | 247 |
| -25.5 | 303 | 294 | 285 | 291 | 286 | 280 | 262 | 263 | 247 | 236 | 212 |
| -29.0 | 260 | 256 | 249 | 243 | 247 | 233 | 219 | 203 | 193 | 171 | 154 |
| -33.0 | 214 | 198 | 171 | 166 | 162 | 153 | 150 | 137 | 121 | 108 | 92 |
| -37.5 | 108 | 102 | 88 | 86 | 83 | 80 | 75 | 70 | 66 | 61 | 54 |
| -42.5 | 55 | 52 | 47 | 45 | 44 | 42 | 40 | 36 | 35 | 33 | 28 |
| -47.5 | 28 | 26 | 23 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 13 |
| -55.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -65.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -75.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -85.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Vertical Angle (Degrees)



Candela Tabulation

Lateral Angle (Degrees)

Vertical Angle (Degrees)

| | 22.5 | 25.5 | 29 | 33 | 37.5 | 42.5 | 47.5 | 55 | 65 | 75 | 85 |
|-------|------|------|-----|-----|------|------|------|----|----|----|----|
| 85.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65.0 | 4 | 4 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 55.0 | 15 | 13 | 11 | 10 | 7 | 4 | 2 | 0 | 0 | 0 | 0 |
| 47.5 | 31 | 28 | 23 | 20 | 14 | 10 | 5 | 1 | 0 | 0 | 0 |
| 42.5 | 52 | 45 | 37 | 30 | 22 | 16 | 9 | 2 | 0 | 0 | 0 |
| 37.5 | 80 | 70 | 57 | 45 | 34 | 23 | 13 | 3 | 0 | 0 | 0 |
| 33.0 | 115 | 99 | 82 | 62 | 45 | 29 | 17 | 4 | 0 | 0 | 0 |
| 29.0 | 152 | 133 | 107 | 80 | 59 | 36 | 22 | 5 | 1 | 0 | 0 |
| 25.5 | 192 | 164 | 132 | 100 | 73 | 44 | 26 | 6 | 1 | 0 | 0 |
| 22.5 | 217 | 185 | 159 | 120 | 78 | 51 | 30 | 7 | 1 | 0 | 0 |
| 19.5 | 249 | 220 | 175 | 129 | 93 | 62 | 32 | 7 | 1 | 0 | 0 |
| 17.0 | 261 | 235 | 194 | 149 | 99 | 63 | 35 | 8 | 1 | 0 | 0 |
| 15.0 | 283 | 251 | 211 | 153 | 107 | 66 | 37 | 8 | 1 | 0 | 0 |
| 13.0 | 292 | 264 | 213 | 167 | 120 | 71 | 40 | 9 | 1 | 0 | 0 |
| 11.0 | 302 | 273 | 221 | 176 | 126 | 74 | 41 | 9 | 1 | 0 | 0 |
| 9.0 | 302 | 281 | 226 | 183 | 128 | 80 | 41 | 9 | 1 | 0 | 0 |
| 7.0 | 303 | 285 | 236 | 183 | 133 | 84 | 41 | 8 | 1 | 0 | 0 |
| 5.0 | 304 | 275 | 243 | 190 | 138 | 85 | 41 | 8 | 1 | 0 | 0 |
| 3.0 | 312 | 279 | 246 | 197 | 139 | 84 | 40 | 8 | 1 | 0 | 0 |
| 1.0 | 312 | 286 | 259 | 198 | 135 | 83 | 39 | 8 | 1 | 0 | 0 |
| 0.0 | 310 | 288 | 266 | 197 | 133 | 82 | 38 | 8 | 1 | 0 | 0 |
| -1.0 | 312 | 282 | 256 | 195 | 134 | 81 | 37 | 8 | 1 | 0 | 0 |
| -3.0 | 311 | 281 | 240 | 190 | 136 | 80 | 34 | 8 | 1 | 0 | 0 |
| -5.0 | 314 | 300 | 243 | 190 | 135 | 77 | 31 | 8 | 1 | 0 | 0 |
| -7.0 | 307 | 277 | 237 | 188 | 133 | 72 | 28 | 8 | 1 | 0 | 0 |
| -9.0 | 305 | 282 | 230 | 181 | 127 | 67 | 27 | 7 | 1 | 0 | 0 |
| -11.0 | 277 | 267 | 229 | 177 | 118 | 61 | 25 | 7 | 1 | 0 | 0 |
| -13.0 | 272 | 256 | 222 | 170 | 109 | 54 | 22 | 7 | 1 | 0 | 0 |
| -15.0 | 281 | 245 | 211 | 157 | 101 | 46 | 20 | 7 | 0 | 0 | 0 |
| -17.0 | 260 | 230 | 197 | 141 | 86 | 39 | 17 | 6 | 0 | 0 | 0 |
| -19.5 | 240 | 211 | 175 | 122 | 69 | 33 | 16 | 6 | 0 | 0 | 0 |
| -22.5 | 214 | 185 | 143 | 99 | 54 | 27 | 14 | 5 | 0 | 0 | 0 |
| -25.5 | 178 | 151 | 109 | 67 | 39 | 21 | 11 | 4 | 0 | 0 | 0 |
| -29.0 | 132 | 95 | 73 | 48 | 31 | 17 | 9 | 3 | 0 | 0 | 0 |
| -33.0 | 78 | 61 | 47 | 32 | 21 | 12 | 6 | 2 | 0 | 0 | 0 |
| -37.5 | 44 | 37 | 30 | 21 | 14 | 8 | 4 | 0 | 0 | 0 | 0 |
| -42.5 | 24 | 20 | 16 | 11 | 7 | 3 | 1 | 0 | 0 | 0 | 0 |
| -47.5 | 11 | 8 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| -55.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -65.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -75.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| -85.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



Isocandela Diagram (Percent of Maximum Intensity)

