



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 192_168_37_234-16_23_23-MERGED.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN from UL #12326812.04 & #12326812.09
 [TESTLAB]
 [ISSUE DATE] 5-MAR-2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] 8CRDI-TL-L25-9DWU-L25-9DWD-DIM-UNV-OM-CSU-LM-WHD-WM
 [LUMINAIRE] 8" DIA. CYLINDER
 [LAMP] Two white LEDs, one up/ one down
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] INDOOR, DIRECT, INDIRECT
 [SEARCH_MOUNTING] WALL

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4540 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 60 |
| Total Luminaire Watts | 75.4 |
| Ballast Factor | 1.00 |
| CIE Type | General Diffuse |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| 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 | 8561 | 8561 | 8561 |
| 55 | 6269 | 6269 | 6269 |
| 65 | 5108 | 5108 | 5108 |
| 75 | 4157 | 4157 | 4157 |
| 85 | 2735 | 2735 | 2735 |

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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> | <u>202.5</u> |
|--------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 5393.574 | 5393.574 | 5393.574 | 5393.574 | 5393.574 | 5393.574 | 5393.574 | 5393.574 | 5393.574 | 5393.574 |
| 2.5 | 5336.381 | 5336.381 | 5336.381 | 5336.381 | 5336.381 | 5336.381 | 5336.381 | 5336.381 | 5336.381 | 5336.381 |
| 5.0 | 5182.208 | 5182.208 | 5182.208 | 5182.208 | 5182.208 | 5182.208 | 5182.208 | 5182.208 | 5182.208 | 5182.208 |
| 7.5 | 4928.568 | 4928.568 | 4928.568 | 4928.568 | 4928.568 | 4928.568 | 4928.568 | 4928.568 | 4928.568 | 4928.568 |
| 10.0 | 4551.838 | 4551.838 | 4551.838 | 4551.838 | 4551.838 | 4551.838 | 4551.838 | 4551.838 | 4551.838 | 4551.838 |
| 12.5 | 4037.099 | 4037.099 | 4037.099 | 4037.099 | 4037.099 | 4037.099 | 4037.099 | 4037.099 | 4037.099 | 4037.099 |
| 15.0 | 3391.810 | 3391.810 | 3391.810 | 3391.810 | 3391.810 | 3391.810 | 3391.810 | 3391.810 | 3391.810 | 3391.810 |
| 17.5 | 2699.274 | 2699.274 | 2699.274 | 2699.274 | 2699.274 | 2699.274 | 2699.274 | 2699.274 | 2699.274 | 2699.274 |
| 20.0 | 2036.578 | 2036.578 | 2036.578 | 2036.578 | 2036.578 | 2036.578 | 2036.578 | 2036.578 | 2036.578 | 2036.578 |
| 22.5 | 1484.538 | 1484.538 | 1484.538 | 1484.538 | 1484.538 | 1484.538 | 1484.538 | 1484.538 | 1484.538 | 1484.538 |
| 25.0 | 1053.102 | 1053.102 | 1053.102 | 1053.102 | 1053.102 | 1053.102 | 1053.102 | 1053.102 | 1053.102 | 1053.102 |
| 27.5 | 742.767 | 742.767 | 742.767 | 742.767 | 742.767 | 742.767 | 742.767 | 742.767 | 742.767 | 742.767 |
| 30.0 | 527.794 | 527.794 | 527.794 | 527.794 | 527.794 | 527.794 | 527.794 | 527.794 | 527.794 | 527.794 |
| 32.5 | 378.843 | 378.843 | 378.843 | 378.843 | 378.843 | 378.843 | 378.843 | 378.843 | 378.843 | 378.843 |
| 35.0 | 275.398 | 275.398 | 275.398 | 275.398 | 275.398 | 275.398 | 275.398 | 275.398 | 275.398 | 275.398 |
| 37.5 | 205.647 | 205.647 | 205.647 | 205.647 | 205.647 | 205.647 | 205.647 | 205.647 | 205.647 | 205.647 |
| 40.0 | 160.638 | 160.638 | 160.638 | 160.638 | 160.638 | 160.638 | 160.638 | 160.638 | 160.638 | 160.638 |
| 42.5 | 131.047 | 131.047 | 131.047 | 131.047 | 131.047 | 131.047 | 131.047 | 131.047 | 131.047 | 131.047 |
| 45.0 | 110.532 | 110.532 | 110.532 | 110.532 | 110.532 | 110.532 | 110.532 | 110.532 | 110.532 | 110.532 |
| 47.5 | 95.488 | 95.488 | 95.488 | 95.488 | 95.488 | 95.488 | 95.488 | 95.488 | 95.488 | 95.488 |
| 50.0 | 83.801 | 83.801 | 83.801 | 83.801 | 83.801 | 83.801 | 83.801 | 83.801 | 83.801 | 83.801 |
| 52.5 | 74.103 | 74.103 | 74.103 | 74.103 | 74.103 | 74.103 | 74.103 | 74.103 | 74.103 | 74.103 |
| 55.0 | 65.648 | 65.648 | 65.648 | 65.648 | 65.648 | 65.648 | 65.648 | 65.648 | 65.648 | 65.648 |
| 57.5 | 58.064 | 58.064 | 58.064 | 58.064 | 58.064 | 58.064 | 58.064 | 58.064 | 58.064 | 58.064 |
| 60.0 | 51.474 | 51.474 | 51.474 | 51.474 | 51.474 | 51.474 | 51.474 | 51.474 | 51.474 | 51.474 |
| 62.5 | 45.257 | 45.257 | 45.257 | 45.257 | 45.257 | 45.257 | 45.257 | 45.257 | 45.257 | 45.257 |
| 65.0 | 39.414 | 39.414 | 39.414 | 39.414 | 39.414 | 39.414 | 39.414 | 39.414 | 39.414 | 39.414 |
| 67.5 | 33.943 | 33.943 | 33.943 | 33.943 | 33.943 | 33.943 | 33.943 | 33.943 | 33.943 | 33.943 |
| 70.0 | 28.845 | 28.845 | 28.845 | 28.845 | 28.845 | 28.845 | 28.845 | 28.845 | 28.845 | 28.845 |
| 72.5 | 24.121 | 24.121 | 24.121 | 24.121 | 24.121 | 24.121 | 24.121 | 24.121 | 24.121 | 24.121 |
| 75.0 | 19.645 | 19.645 | 19.645 | 19.645 | 19.645 | 19.645 | 19.645 | 19.645 | 19.645 | 19.645 |
| 77.5 | 15.417 | 15.417 | 15.417 | 15.417 | 15.417 | 15.417 | 15.417 | 15.417 | 15.417 | 15.417 |
| 80.0 | 11.439 | 11.439 | 11.439 | 11.439 | 11.439 | 11.439 | 11.439 | 11.439 | 11.439 | 11.439 |
| 82.5 | 7.709 | 7.709 | 7.709 | 7.709 | 7.709 | 7.709 | 7.709 | 7.709 | 7.709 | 7.709 |
| 85.0 | 4.352 | 4.352 | 4.352 | 4.352 | 4.352 | 4.352 | 4.352 | 4.352 | 4.352 | 4.352 |
| 87.5 | 1.741 | 1.741 | 1.741 | 1.741 | 1.741 | 1.741 | 1.741 | 1.741 | 1.741 | 1.741 |
| 90.0 | 0.486 | 0.486 | 0.486 | 0.486 | 0.486 | 0.486 | 0.486 | 0.486 | 0.486 | 0.486 |
| 92.5 | 0.225 | 0.225 | 0.225 | 0.225 | 0.225 | 0.225 | 0.225 | 0.225 | 0.225 | 0.225 |
| 95.0 | 0.338 | 0.338 | 0.338 | 0.338 | 0.338 | 0.338 | 0.338 | 0.338 | 0.338 | 0.338 |
| 97.5 | 0.451 | 0.451 | 0.451 | 0.451 | 0.451 | 0.451 | 0.451 | 0.451 | 0.451 | 0.451 |
| 100.0 | 0.678 | 0.678 | 0.678 | 0.678 | 0.678 | 0.678 | 0.678 | 0.678 | 0.678 | 0.678 |
| 102.5 | 0.903 | 0.903 | 0.903 | 0.903 | 0.903 | 0.903 | 0.903 | 0.903 | 0.903 | 0.903 |
| 105.0 | 1.241 | 1.241 | 1.241 | 1.241 | 1.241 | 1.241 | 1.241 | 1.241 | 1.241 | 1.241 |
| 107.5 | 1.806 | 1.806 | 1.806 | 1.806 | 1.806 | 1.806 | 1.806 | 1.806 | 1.806 | 1.806 |
| 110.0 | 2.483 | 2.483 | 2.483 | 2.483 | 2.483 | 2.483 | 2.483 | 2.483 | 2.483 | 2.483 |
| 112.5 | 3.273 | 3.273 | 3.273 | 3.273 | 3.273 | 3.273 | 3.273 | 3.273 | 3.273 | 3.273 |
| 115.0 | 4.514 | 4.514 | 4.514 | 4.514 | 4.514 | 4.514 | 4.514 | 4.514 | 4.514 | 4.514 |
| 117.5 | 6.094 | 6.094 | 6.094 | 6.094 | 6.094 | 6.094 | 6.094 | 6.094 | 6.094 | 6.094 |
| 120.0 | 8.238 | 8.238 | 8.238 | 8.238 | 8.238 | 8.238 | 8.238 | 8.238 | 8.238 | 8.238 |
| 122.5 | 11.286 | 11.286 | 11.286 | 11.286 | 11.286 | 11.286 | 11.286 | 11.286 | 11.286 | 11.286 |
| 125.0 | 15.575 | 15.575 | 15.575 | 15.575 | 15.575 | 15.575 | 15.575 | 15.575 | 15.575 | 15.575 |
| 127.5 | 21.894 | 21.894 | 21.894 | 21.894 | 21.894 | 21.894 | 21.894 | 21.894 | 21.894 | 21.894 |
| 130.0 | 30.246 | 30.246 | 30.246 | 30.246 | 30.246 | 30.246 | 30.246 | 30.246 | 30.246 | 30.246 |
| 132.5 | 40.403 | 40.403 | 40.403 | 40.403 | 40.403 | 40.403 | 40.403 | 40.403 | 40.403 | 40.403 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 135.0 | 52.140 | 52.140 | 52.140 | 52.140 | 52.140 | 52.140 | 52.140 | 52.140 | 52.140 | 52.140 |
| 137.5 | 73.696 | 73.696 | 73.696 | 73.696 | 73.696 | 73.696 | 73.696 | 73.696 | 73.696 | 73.696 |
| 140.0 | 130.689 | 130.689 | 130.689 | 130.689 | 130.689 | 130.689 | 130.689 | 130.689 | 130.689 | 130.689 |
| 142.5 | 194.680 | 194.680 | 194.680 | 194.680 | 194.680 | 194.680 | 194.680 | 194.680 | 194.680 | 194.680 |
| 145.0 | 446.352 | 446.352 | 446.352 | 446.352 | 446.352 | 446.352 | 446.352 | 446.352 | 446.352 | 446.352 |
| 147.5 | 802.642 | 802.642 | 802.642 | 802.642 | 802.642 | 802.642 | 802.642 | 802.642 | 802.642 | 802.642 |
| 150.0 | 1131.961 | 1131.961 | 1131.961 | 1131.961 | 1131.961 | 1131.961 | 1131.961 | 1131.961 | 1131.961 | 1131.961 |
| 152.5 | 1328.333 | 1328.333 | 1328.333 | 1328.333 | 1328.333 | 1328.333 | 1328.333 | 1328.333 | 1328.333 | 1328.333 |
| 155.0 | 1593.548 | 1593.548 | 1593.548 | 1593.548 | 1593.548 | 1593.548 | 1593.548 | 1593.548 | 1593.548 | 1593.548 |
| 157.5 | 1891.492 | 1891.492 | 1891.492 | 1891.492 | 1891.492 | 1891.492 | 1891.492 | 1891.492 | 1891.492 | 1891.492 |
| 160.0 | 2157.835 | 2157.835 | 2157.835 | 2157.835 | 2157.835 | 2157.835 | 2157.835 | 2157.835 | 2157.835 | 2157.835 |
| 162.5 | 2376.779 | 2376.779 | 2376.779 | 2376.779 | 2376.779 | 2376.779 | 2376.779 | 2376.779 | 2376.779 | 2376.779 |
| 165.0 | 2623.937 | 2623.937 | 2623.937 | 2623.937 | 2623.937 | 2623.937 | 2623.937 | 2623.937 | 2623.937 | 2623.937 |
| 167.5 | 2938.809 | 2938.809 | 2938.809 | 2938.809 | 2938.809 | 2938.809 | 2938.809 | 2938.809 | 2938.809 | 2938.809 |
| 170.0 | 3377.825 | 3377.825 | 3377.825 | 3377.825 | 3377.825 | 3377.825 | 3377.825 | 3377.825 | 3377.825 | 3377.825 |
| 172.5 | 4031.271 | 4031.271 | 4031.271 | 4031.271 | 4031.271 | 4031.271 | 4031.271 | 4031.271 | 4031.271 | 4031.271 |
| 175.0 | 4482.701 | 4482.701 | 4482.701 | 4482.701 | 4482.701 | 4482.701 | 4482.701 | 4482.701 | 4482.701 | 4482.701 |
| 177.5 | 4584.272 | 4584.272 | 4584.272 | 4584.272 | 4584.272 | 4584.272 | 4584.272 | 4584.272 | 4584.272 | 4584.272 |
| 180.0 | 4527.927 | 4527.927 | 4527.927 | 4527.927 | 4527.927 | 4527.927 | 4527.927 | 4527.927 | 4527.927 | 4527.927 |

**Vert.
Angles**

Horizontal Angles

| | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 5393.574 | 5393.574 | 5393.574 | 5393.574 | 5393.574 | 5393.574 | 5393.574 |
| 2.5 | 5336.381 | 5336.381 | 5336.381 | 5336.381 | 5336.381 | 5336.381 | 5336.381 |
| 5.0 | 5182.208 | 5182.208 | 5182.208 | 5182.208 | 5182.208 | 5182.208 | 5182.208 |
| 7.5 | 4928.568 | 4928.568 | 4928.568 | 4928.568 | 4928.568 | 4928.568 | 4928.568 |
| 10.0 | 4551.838 | 4551.838 | 4551.838 | 4551.838 | 4551.838 | 4551.838 | 4551.838 |
| 12.5 | 4037.099 | 4037.099 | 4037.099 | 4037.099 | 4037.099 | 4037.099 | 4037.099 |
| 15.0 | 3391.810 | 3391.810 | 3391.810 | 3391.810 | 3391.810 | 3391.810 | 3391.810 |
| 17.5 | 2699.274 | 2699.274 | 2699.274 | 2699.274 | 2699.274 | 2699.274 | 2699.274 |
| 20.0 | 2036.578 | 2036.578 | 2036.578 | 2036.578 | 2036.578 | 2036.578 | 2036.578 |
| 22.5 | 1484.538 | 1484.538 | 1484.538 | 1484.538 | 1484.538 | 1484.538 | 1484.538 |
| 25.0 | 1053.102 | 1053.102 | 1053.102 | 1053.102 | 1053.102 | 1053.102 | 1053.102 |
| 27.5 | 742.767 | 742.767 | 742.767 | 742.767 | 742.767 | 742.767 | 742.767 |
| 30.0 | 527.794 | 527.794 | 527.794 | 527.794 | 527.794 | 527.794 | 527.794 |
| 32.5 | 378.843 | 378.843 | 378.843 | 378.843 | 378.843 | 378.843 | 378.843 |
| 35.0 | 275.398 | 275.398 | 275.398 | 275.398 | 275.398 | 275.398 | 275.398 |
| 37.5 | 205.647 | 205.647 | 205.647 | 205.647 | 205.647 | 205.647 | 205.647 |
| 40.0 | 160.638 | 160.638 | 160.638 | 160.638 | 160.638 | 160.638 | 160.638 |
| 42.5 | 131.047 | 131.047 | 131.047 | 131.047 | 131.047 | 131.047 | 131.047 |
| 45.0 | 110.532 | 110.532 | 110.532 | 110.532 | 110.532 | 110.532 | 110.532 |
| 47.5 | 95.488 | 95.488 | 95.488 | 95.488 | 95.488 | 95.488 | 95.488 |
| 50.0 | 83.801 | 83.801 | 83.801 | 83.801 | 83.801 | 83.801 | 83.801 |
| 52.5 | 74.103 | 74.103 | 74.103 | 74.103 | 74.103 | 74.103 | 74.103 |
| 55.0 | 65.648 | 65.648 | 65.648 | 65.648 | 65.648 | 65.648 | 65.648 |
| 57.5 | 58.064 | 58.064 | 58.064 | 58.064 | 58.064 | 58.064 | 58.064 |
| 60.0 | 51.474 | 51.474 | 51.474 | 51.474 | 51.474 | 51.474 | 51.474 |
| 62.5 | 45.257 | 45.257 | 45.257 | 45.257 | 45.257 | 45.257 | 45.257 |
| 65.0 | 39.414 | 39.414 | 39.414 | 39.414 | 39.414 | 39.414 | 39.414 |
| 67.5 | 33.943 | 33.943 | 33.943 | 33.943 | 33.943 | 33.943 | 33.943 |
| 70.0 | 28.845 | 28.845 | 28.845 | 28.845 | 28.845 | 28.845 | 28.845 |
| 72.5 | 24.121 | 24.121 | 24.121 | 24.121 | 24.121 | 24.121 | 24.121 |
| 75.0 | 19.645 | 19.645 | 19.645 | 19.645 | 19.645 | 19.645 | 19.645 |
| 77.5 | 15.417 | 15.417 | 15.417 | 15.417 | 15.417 | 15.417 | 15.417 |
| 80.0 | 11.439 | 11.439 | 11.439 | 11.439 | 11.439 | 11.439 | 11.439 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| 82.5 | 7.709 | 7.709 | 7.709 | 7.709 | 7.709 | 7.709 | 7.709 |
| 85.0 | 4.352 | 4.352 | 4.352 | 4.352 | 4.352 | 4.352 | 4.352 |
| 87.5 | 1.741 | 1.741 | 1.741 | 1.741 | 1.741 | 1.741 | 1.741 |
| 90.0 | 0.486 | 0.486 | 0.486 | 0.486 | 0.486 | 0.486 | 0.486 |
| 92.5 | 0.225 | 0.225 | 0.225 | 0.225 | 0.225 | 0.225 | 0.225 |
| 95.0 | 0.338 | 0.338 | 0.338 | 0.338 | 0.338 | 0.338 | 0.338 |
| 97.5 | 0.451 | 0.451 | 0.451 | 0.451 | 0.451 | 0.451 | 0.451 |
| 100.0 | 0.678 | 0.678 | 0.678 | 0.678 | 0.678 | 0.678 | 0.678 |
| 102.5 | 0.903 | 0.903 | 0.903 | 0.903 | 0.903 | 0.903 | 0.903 |
| 105.0 | 1.241 | 1.241 | 1.241 | 1.241 | 1.241 | 1.241 | 1.241 |
| 107.5 | 1.806 | 1.806 | 1.806 | 1.806 | 1.806 | 1.806 | 1.806 |
| 110.0 | 2.483 | 2.483 | 2.483 | 2.483 | 2.483 | 2.483 | 2.483 |
| 112.5 | 3.273 | 3.273 | 3.273 | 3.273 | 3.273 | 3.273 | 3.273 |
| 115.0 | 4.514 | 4.514 | 4.514 | 4.514 | 4.514 | 4.514 | 4.514 |
| 117.5 | 6.094 | 6.094 | 6.094 | 6.094 | 6.094 | 6.094 | 6.094 |
| 120.0 | 8.238 | 8.238 | 8.238 | 8.238 | 8.238 | 8.238 | 8.238 |
| 122.5 | 11.286 | 11.286 | 11.286 | 11.286 | 11.286 | 11.286 | 11.286 |
| 125.0 | 15.575 | 15.575 | 15.575 | 15.575 | 15.575 | 15.575 | 15.575 |
| 127.5 | 21.894 | 21.894 | 21.894 | 21.894 | 21.894 | 21.894 | 21.894 |
| 130.0 | 30.246 | 30.246 | 30.246 | 30.246 | 30.246 | 30.246 | 30.246 |
| 132.5 | 40.403 | 40.403 | 40.403 | 40.403 | 40.403 | 40.403 | 40.403 |
| 135.0 | 52.140 | 52.140 | 52.140 | 52.140 | 52.140 | 52.140 | 52.140 |
| 137.5 | 73.696 | 73.696 | 73.696 | 73.696 | 73.696 | 73.696 | 73.696 |
| 140.0 | 130.689 | 130.689 | 130.689 | 130.689 | 130.689 | 130.689 | 130.689 |
| 142.5 | 194.680 | 194.680 | 194.680 | 194.680 | 194.680 | 194.680 | 194.680 |
| 145.0 | 446.352 | 446.352 | 446.352 | 446.352 | 446.352 | 446.352 | 446.352 |
| 147.5 | 802.642 | 802.642 | 802.642 | 802.642 | 802.642 | 802.642 | 802.642 |
| 150.0 | 1131.961 | 1131.961 | 1131.961 | 1131.961 | 1131.961 | 1131.961 | 1131.961 |
| 152.5 | 1328.333 | 1328.333 | 1328.333 | 1328.333 | 1328.333 | 1328.333 | 1328.333 |
| 155.0 | 1593.548 | 1593.548 | 1593.548 | 1593.548 | 1593.548 | 1593.548 | 1593.548 |
| 157.5 | 1891.492 | 1891.492 | 1891.492 | 1891.492 | 1891.492 | 1891.492 | 1891.492 |
| 160.0 | 2157.835 | 2157.835 | 2157.835 | 2157.835 | 2157.835 | 2157.835 | 2157.835 |
| 162.5 | 2376.779 | 2376.779 | 2376.779 | 2376.779 | 2376.779 | 2376.779 | 2376.779 |
| 165.0 | 2623.937 | 2623.937 | 2623.937 | 2623.937 | 2623.937 | 2623.937 | 2623.937 |
| 167.5 | 2938.809 | 2938.809 | 2938.809 | 2938.809 | 2938.809 | 2938.809 | 2938.809 |
| 170.0 | 3377.825 | 3377.825 | 3377.825 | 3377.825 | 3377.825 | 3377.825 | 3377.825 |
| 172.5 | 4031.271 | 4031.271 | 4031.271 | 4031.271 | 4031.271 | 4031.271 | 4031.271 |
| 175.0 | 4482.701 | 4482.701 | 4482.701 | 4482.701 | 4482.701 | 4482.701 | 4482.701 |
| 177.5 | 4584.272 | 4584.272 | 4584.272 | 4584.272 | 4584.272 | 4584.272 | 4584.272 |
| 180.0 | 4527.927 | 4527.927 | 4527.927 | 4527.927 | 4527.927 | 4527.927 | 4527.927 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1388.91 | N.A. | 30.60 |
| 0-30 | 1896.55 | N.A. | 41.80 |
| 0-40 | 2081.25 | N.A. | 45.80 |
| 0-60 | 2228.65 | N.A. | 49.10 |
| 0-80 | 2288.82 | N.A. | 50.40 |
| 0-90 | 2294.19 | N.A. | 50.50 |
| 10-90 | 1819.27 | N.A. | 40.10 |
| 20-40 | 692.35 | N.A. | 15.30 |
| 20-50 | 780.48 | N.A. | 17.20 |
| 40-70 | 186.65 | N.A. | 4.10 |
| 60-80 | 60.17 | N.A. | 1.30 |
| 70-80 | 20.91 | N.A. | 0.50 |
| 80-90 | 5.38 | N.A. | 0.10 |
| 90-110 | 1.89 | N.A. | 0.00 |
| 90-120 | 6.63 | N.A. | 0.10 |
| 90-130 | 21.69 | N.A. | 0.50 |
| 90-150 | 381.08 | N.A. | 8.40 |
| 90-180 | 2245.76 | N.A. | 49.50 |
| 110-180 | 2243.87 | N.A. | 49.40 |
| 0-180 | 4539.95 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 474.93 |
| 10-20 | 913.98 |
| 20-30 | 507.65 |
| 30-40 | 184.70 |
| 40-50 | 88.13 |
| 50-60 | 59.26 |
| 60-70 | 39.26 |
| 70-80 | 20.91 |
| 80-90 | 5.38 |
| 90-100 | 0.43 |
| 100-110 | 1.46 |
| 110-120 | 4.74 |
| 120-130 | 15.06 |
| 130-140 | 46.84 |
| 140-150 | 312.54 |
| 150-160 | 732.88 |
| 160-170 | 741.73 |
| 170-180 | 390.06 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 192_168_37_234-16_23_23-MERGED.IES

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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 |
| 1 | 100 | 97 | 94 | 91 | 93 | 90 | 88 | 85 | 77 | 75 | 74 | 65 | 64 | 63 | 54 | 53 | 53 | 48 |
| 2 | 94 | 88 | 84 | 80 | 87 | 82 | 78 | 75 | 71 | 68 | 66 | 61 | 59 | 57 | 51 | 50 | 49 | 45 |
| 3 | 88 | 81 | 75 | 71 | 82 | 76 | 71 | 67 | 66 | 63 | 60 | 57 | 55 | 53 | 49 | 47 | 46 | 42 |
| 4 | 83 | 74 | 68 | 64 | 77 | 70 | 65 | 61 | 61 | 58 | 55 | 54 | 51 | 49 | 46 | 45 | 43 | 40 |
| 5 | 78 | 69 | 63 | 58 | 73 | 65 | 59 | 55 | 58 | 54 | 50 | 51 | 48 | 46 | 44 | 42 | 41 | 38 |
| 6 | 73 | 64 | 58 | 53 | 69 | 61 | 55 | 51 | 54 | 50 | 47 | 48 | 45 | 43 | 42 | 40 | 39 | 36 |
| 7 | 70 | 60 | 54 | 49 | 65 | 57 | 51 | 47 | 51 | 47 | 44 | 46 | 43 | 40 | 41 | 38 | 37 | 35 |
| 8 | 66 | 56 | 50 | 46 | 62 | 53 | 48 | 44 | 48 | 44 | 41 | 43 | 40 | 38 | 39 | 37 | 35 | 33 |
| 9 | 63 | 53 | 47 | 43 | 59 | 50 | 45 | 42 | 46 | 42 | 39 | 42 | 38 | 36 | 37 | 35 | 34 | 32 |
| 10 | 60 | 50 | 44 | 40 | 56 | 48 | 43 | 39 | 44 | 40 | 37 | 40 | 37 | 35 | 36 | 34 | 32 | 31 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 192_168_37_234-16_23_23-MERGED.IES

UGR TABLE - CORRECTED

Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| Ceiling Cavity | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |

Room Size UGR Viewed Crosswise

| | | | | | | | | | | | |
|------|------|-----|------|------|------|------|-----|------|------|------|------|
| X=2H | Y=2H | 7.5 | 8.1 | 8.5 | 9.1 | 10.4 | 7.5 | 8.1 | 8.5 | 9.1 | 10.4 |
| | 3H | 8.8 | 9.5 | 9.9 | 10.4 | 11.7 | 8.8 | 9.5 | 9.9 | 10.4 | 11.7 |
| | 4H | 9.3 | 9.9 | 10.4 | 10.9 | 12.2 | 9.3 | 9.9 | 10.4 | 10.9 | 12.2 |
| | 6H | 9.7 | 10.2 | 10.7 | 11.2 | 12.5 | 9.7 | 10.2 | 10.7 | 11.2 | 12.5 |
| | 8H | 9.8 | 10.3 | 10.8 | 11.3 | 12.6 | 9.8 | 10.3 | 10.8 | 11.3 | 12.6 |
| | 12H | 9.8 | 10.3 | 10.8 | 11.3 | 12.6 | 9.8 | 10.3 | 10.8 | 11.3 | 12.6 |

UGR Viewed Endwise

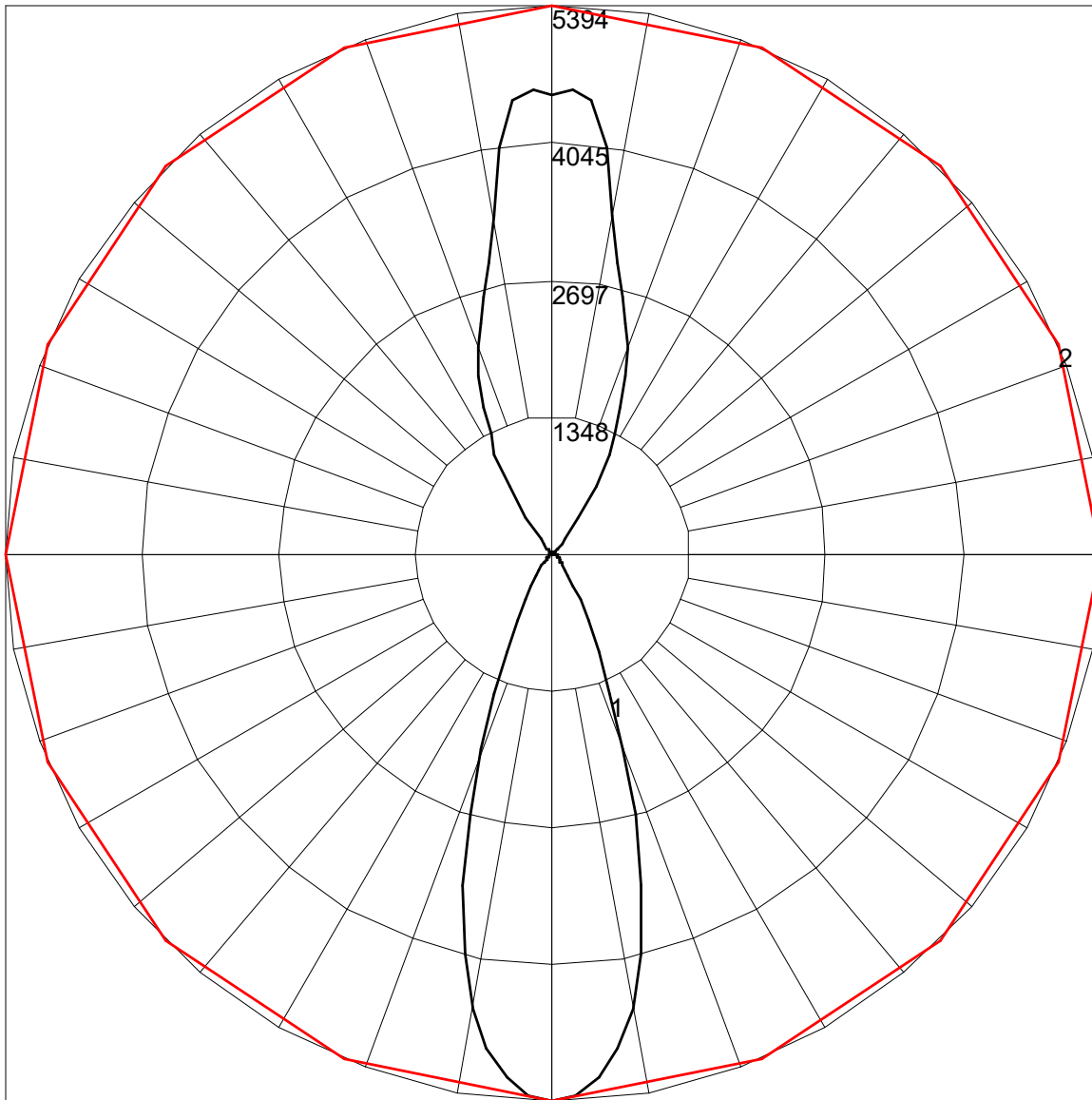
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 7.9 | 8.4 | 8.9 | 9.4 | 10.7 | 7.9 | 8.4 | 8.9 | 9.4 | 10.7 |
| | 3H | 9.5 | 9.9 | 10.5 | 10.9 | 12.3 | 9.5 | 9.9 | 10.5 | 10.9 | 12.3 |
| | 4H | 10.1 | 10.5 | 11.1 | 11.5 | 12.9 | 10.1 | 10.5 | 11.1 | 11.5 | 12.9 |
| | 6H | 10.5 | 10.9 | 11.6 | 11.9 | 13.3 | 10.5 | 10.9 | 11.6 | 11.9 | 13.3 |
| | 8H | 10.7 | 11.0 | 11.7 | 12.0 | 13.4 | 10.7 | 11.0 | 11.7 | 12.0 | 13.4 |
| | 12H | 10.7 | 11.0 | 11.8 | 12.1 | 13.4 | 10.7 | 11.0 | 11.8 | 12.1 | 13.4 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 10.2 | 10.6 | 11.3 | 11.6 | 13.0 | 10.2 | 10.6 | 11.3 | 11.6 | 13.0 |
| | 6H | 10.8 | 11.1 | 11.9 | 12.2 | 13.5 | 10.8 | 11.1 | 11.9 | 12.2 | 13.5 |
| | 8H | 11.0 | 11.3 | 12.1 | 12.3 | 13.7 | 11.0 | 11.3 | 12.1 | 12.3 | 13.7 |
| | 12H | 11.1 | 11.3 | 12.2 | 12.4 | 13.8 | 11.1 | 11.3 | 12.2 | 12.4 | 13.8 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 10.2 | 10.5 | 11.3 | 11.6 | 12.9 | 10.2 | 10.5 | 11.3 | 11.6 | 12.9 |
| | 6H | 10.8 | 11.1 | 11.9 | 12.1 | 13.5 | 10.8 | 11.1 | 11.9 | 12.1 | 13.5 |
| | 8H | 11.1 | 11.3 | 12.1 | 12.3 | 13.7 | 11.1 | 11.3 | 12.1 | 12.3 | 13.7 |

Maximum UGR = 13.8

POLAR GRAPH



Maximum Candela = 5393.574 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.)