**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : MHB-01-LED-30L-CPW-40-80CRI.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] 3829
[TESTLAB] TUV SUD America
[TESTDATE] 1/27/2020 2:14:46 PM
[ISSUEDATE] 04/05/2022
[MANUFAC] LSI INDUSTRIES, INC.
[LUMCAT] MHB-01-LED-30L-CPW-40-80CRI
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[OTHER] SCALED FROM ORIGINAL TEST DATA
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor
[_SEARCH_COLORTEMP] 4000

**CHARACTERISTICS**

| | |
|---|---|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 29549 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 159 |
| Total Luminaire Watts | 186 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.22 |
| Spacing Criterion (90-270) | 1.30 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 1.14 ft |
| Luminous Width (90-270) | 1.16 ft |
| Luminous Height | 0.00 ft |

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

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---|---|---|---|
| 45 | 86208 | 80526 | 85908 |
| 55 | 79934 | 80034 | 79084 |
| 65 | 56783 | 66982 | 65654 |
| 75 | 45496 | 42354 | 40846 |
| 85 | 33403 | 26965 | 13623 |

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**IES INDOOR REPORT**
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**CANDELA TABULATION**

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 | 112.5 | 135.0 | 157.5 | 180.0 | 202.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **0.0** | 10753 | 10753 | 10753 | 10753 | 10753 | 10753 | 10753 | 10753 | 10753 | 10753 |
| **2.5** | 10676 | 10731 | 10762 | 10729 | 10815 | 10729 | 10767 | 10741 | 10693 | 10741 |
| **5.0** | 10640 | 10700 | 10726 | 10695 | 10786 | 10698 | 10731 | 10710 | 10669 | 10710 |
| **7.5** | 10578 | 10652 | 10674 | 10643 | 10731 | 10648 | 10683 | 10662 | 10619 | 10662 |
| **10.0** | 10497 | 10578 | 10602 | 10574 | 10655 | 10576 | 10609 | 10588 | 10555 | 10588 |
| **12.5** | 10388 | 10476 | 10507 | 10476 | 10567 | 10481 | 10524 | 10488 | 10457 | 10488 |
| **15.0** | 10237 | 10352 | 10400 | 10366 | 10454 | 10371 | 10407 | 10354 | 10323 | 10354 |
| **17.5** | 10054 | 10185 | 10261 | 10233 | 10323 | 10242 | 10264 | 10178 | 10144 | 10178 |
| **20.0** | 9825 | 9980 | 10099 | 10082 | 10168 | 10089 | 10094 | 9961 | 9927 | 9961 |
| **22.5** | 9536 | 9727 | 9891 | 9913 | 9989 | 9918 | 9882 | 9705 | 9672 | 9705 |
| **25.0** | 9333 | 9448 | 9648 | 9712 | 9784 | 9712 | 9629 | 9445 | 9393 | 9445 |
| **27.5** | 9044 | 9214 | 9433 | 9488 | 9565 | 9524 | 9398 | 9197 | 9166 | 9197 |
| **30.0** | 8737 | 8899 | 9154 | 9340 | 9390 | 9331 | 9133 | 8889 | 8877 | 8889 |
| **32.5** | 8493 | 8594 | 8823 | 9073 | 9157 | 9063 | 8796 | 8601 | 8610 | 8601 |
| **35.0** | 8259 | 8300 | 8462 | 8772 | 8873 | 8758 | 8443 | 8329 | 8384 | 8329 |
| **37.5** | 8090 | 8042 | 8090 | 8443 | 8560 | 8422 | 8083 | 8090 | 8217 | 8090 |
| **40.0** | 7935 | 7823 | 7718 | 8078 | 8219 | 8059 | 7720 | 7899 | 8085 | 7899 |
| **42.5** | 7742 | 7618 | 7351 | 7687 | 7854 | 7670 | 7379 | 7716 | 7923 | 7716 |
| **45.0** | 7496 | 7386 | 7002 | 7257 | 7470 | 7243 | 7052 | 7487 | 7699 | 7487 |
| **47.5** | 7200 | 7124 | 6678 | 6804 | 7048 | 6792 | 6745 | 7224 | 7441 | 7224 |
| **50.0** | 6811 | 6807 | 6351 | 6320 | 6573 | 6301 | 6437 | 6900 | 7107 | 6900 |
| **52.5** | 6265 | 6401 | 6005 | 5793 | 6079 | 5790 | 6098 | 6477 | 6656 | 6477 |
| **55.0** | 5638 | 5886 | 5645 | 5256 | 5578 | 5249 | 5731 | 5952 | 6069 | 5952 |
| **57.5** | 4984 | 5280 | 5213 | 4724 | 5063 | 4733 | 5296 | 5344 | 5397 | 5344 |
| **60.0** | 4304 | 4609 | 4702 | 4220 | 4542 | 4237 | 4772 | 4664 | 4709 | 4664 |
| **62.5** | 3579 | 3913 | 4108 | 3710 | 3979 | 3736 | 4163 | 3970 | 4015 | 3970 |
| **65.0** | 2951 | 3249 | 3481 | 3214 | 3412 | 3257 | 3498 | 3288 | 3369 | 3288 |
| **67.5** | 2443 | 2651 | 2844 | 2729 | 2849 | 2770 | 2875 | 2701 | 2798 | 2701 |
| **70.0** | 2114 | 2183 | 2238 | 2259 | 2305 | 2288 | 2288 | 2235 | 2338 | 2235 |
| **72.5** | 1813 | 1847 | 1732 | 1785 | 1777 | 1801 | 1777 | 1899 | 2026 | 1899 |
| **75.0** | 1448 | 1515 | 1348 | 1326 | 1300 | 1346 | 1391 | 1572 | 1687 | 1572 |
| **77.5** | 1047 | 1162 | 1052 | 930 | 873 | 945 | 1090 | 1214 | 1322 | 1214 |
| **80.0** | 747 | 804 | 761 | 616 | 534 | 627 | 794 | 849 | 947 | 849 |
| **82.5** | 575 | 575 | 487 | 384 | 296 | 396 | 518 | 601 | 694 | 601 |
| **85.0** | 358 | 384 | 289 | 208 | 146 | 222 | 313 | 413 | 527 | 413 |
| **87.5** | 119 | 153 | 107 | 79 | 62 | 86 | 131 | 188 | 293 | 188 |
| **90.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **92.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **95.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **97.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **100.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **102.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **105.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **107.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **110.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **112.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **115.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **117.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **120.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **122.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **125.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **127.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **130.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **132.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **135.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **137.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **140.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **142.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **145.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **147.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **150.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **152.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **155.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **157.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **160.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **162.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **165.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **167.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **170.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **172.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **175.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **177.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **180.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| **Vert. Angles** | **Horizontal Angles** | | | | | | |
|---|---|---|---|---|---|---|---|
| | **225.0** | **247.5** | **270.0** | **292.5** | **315.0** | **337.5** | **360.0** |
| **0.0** | 10753 | 10753 | 10753 | 10753 | 10753 | 10753 | 10753 |
| **2.5** | 10767 | 10729 | 10815 | 10729 | 10762 | 10731 | 10676 |
| **5.0** | 10731 | 10698 | 10786 | 10695 | 10726 | 10700 | 10640 |
| **7.5** | 10683 | 10648 | 10731 | 10643 | 10674 | 10652 | 10578 |
| **10.0** | 10609 | 10576 | 10655 | 10574 | 10602 | 10578 | 10497 |
| **12.5** | 10524 | 10481 | 10567 | 10476 | 10507 | 10476 | 10388 |
| **15.0** | 10407 | 10371 | 10454 | 10366 | 10400 | 10352 | 10237 |
| **17.5** | 10264 | 10242 | 10323 | 10233 | 10261 | 10185 | 10054 |
| **20.0** | 10094 | 10089 | 10168 | 10082 | 10099 | 9980 | 9825 |
| **22.5** | 9882 | 9918 | 9989 | 9913 | 9891 | 9727 | 9536 |
| **25.0** | 9629 | 9712 | 9784 | 9712 | 9648 | 9448 | 9333 |
| **27.5** | 9398 | 9524 | 9565 | 9488 | 9433 | 9214 | 9044 |
| **30.0** | 9133 | 9331 | 9390 | 9340 | 9154 | 8899 | 8737 |
| **32.5** | 8796 | 9063 | 9157 | 9073 | 8823 | 8594 | 8493 |
| **35.0** | 8443 | 8758 | 8873 | 8772 | 8462 | 8300 | 8259 |
| **37.5** | 8083 | 8422 | 8560 | 8443 | 8090 | 8042 | 8090 |
| **40.0** | 7720 | 8059 | 8219 | 8078 | 7718 | 7823 | 7935 |
| **42.5** | 7379 | 7670 | 7854 | 7687 | 7351 | 7618 | 7742 |
| **45.0** | 7052 | 7243 | 7470 | 7257 | 7002 | 7386 | 7496 |
| **47.5** | 6745 | 6792 | 7048 | 6804 | 6678 | 7124 | 7200 |
| **50.0** | 6437 | 6301 | 6573 | 6320 | 6351 | 6807 | 6811 |
| **52.5** | 6098 | 5790 | 6079 | 5793 | 6005 | 6401 | 6265 |
| **55.0** | 5731 | 5249 | 5578 | 5256 | 5645 | 5886 | 5638 |
| **57.5** | 5296 | 4733 | 5063 | 4724 | 5213 | 5280 | 4984 |
| **60.0** | 4772 | 4237 | 4542 | 4220 | 4702 | 4609 | 4304 |
| **62.5** | 4163 | 3736 | 3979 | 3710 | 4108 | 3913 | 3579 |
| **65.0** | 3498 | 3257 | 3412 | 3214 | 3481 | 3249 | 2951 |
| **67.5** | 2875 | 2770 | 2849 | 2729 | 2844 | 2651 | 2443 |
| **70.0** | 2288 | 2288 | 2305 | 2259 | 2238 | 2183 | 2114 |
| **72.5** | 1777 | 1801 | 1777 | 1785 | 1732 | 1847 | 1813 |
| **75.0** | 1391 | 1346 | 1300 | 1326 | 1348 | 1515 | 1448 |
| **77.5** | 1090 | 945 | 873 | 930 | 1052 | 1162 | 1047 |
| **80.0** | 794 | 627 | 534 | 616 | 761 | 804 | 747 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **82.5** | 518 | 396 | 296 | 384 | 487 | 575 | 575 |
| **85.0** | 313 | 222 | 146 | 208 | 289 | 384 | 358 |
| **87.5** | 131 | 86 | 62 | 79 | 107 | 153 | 119 |
| **90.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **92.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **95.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **97.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **100.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **102.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **105.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **107.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **110.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **112.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **115.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **117.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **120.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **122.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **125.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **127.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **130.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **132.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **135.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **137.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **140.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **142.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **145.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **147.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **150.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **152.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **155.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **157.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **160.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **162.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **165.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **167.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **170.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **172.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **175.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **177.5** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **180.0** | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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**PHOTOMETRIC FILENAME : MHB-01-LED-30L-CPW-40-80CRI.IES**

**ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---|---|---|---|
| 0-20 | 3945.06 | N.A. | 13.40 |
| 0-30 | 8372.27 | N.A. | 28.30 |
| 0-40 | 13717.79 | N.A. | 46.40 |
| 0-60 | 24368.96 | N.A. | 82.50 |
| 0-80 | 29201.05 | N.A. | 98.80 |
| 0-90 | 29549.14 | N.A. | 100.00 |
| 10-90 | 28530.47 | N.A. | 96.60 |
| 20-40 | 9772.72 | N.A. | 33.10 |
| 20-50 | 15407.64 | N.A. | 52.10 |
| 40-70 | 13959.15 | N.A. | 47.20 |
| 60-80 | 4832.1 | N.A. | 16.40 |
| 70-80 | 1524.11 | N.A. | 5.20 |
| 80-90 | 348.08 | N.A. | 1.20 |
| 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 | 29549.14 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone | Lumens |
|---|---|
| 0-10 | 1018.67 |
| 10-20 | 2926.4 |
| 20-30 | 4427.2 |
| 30-40 | 5345.52 |
| 40-50 | 5634.92 |
| 50-60 | 5016.25 |
| 60-70 | 3307.98 |
| 70-80 | 1524.11 |
| 80-90 | 348.08 |
| 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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 60 |
| 4 | 83 | 72 | 63 | 57 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 66 | 60 | 55 | 63 | 58 | 54 | 52 |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 48 | 61 | 54 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 48 | 42 | 55 | 48 | 42 | 53 | 47 | 42 | 52 | 46 | 41 | 39 |
| 7 | 66 | 52 | 44 | 38 | 64 | 52 | 43 | 37 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 |
| 8 | 61 | 48 | 39 | 33 | 60 | 47 | 39 | 33 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 40 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |

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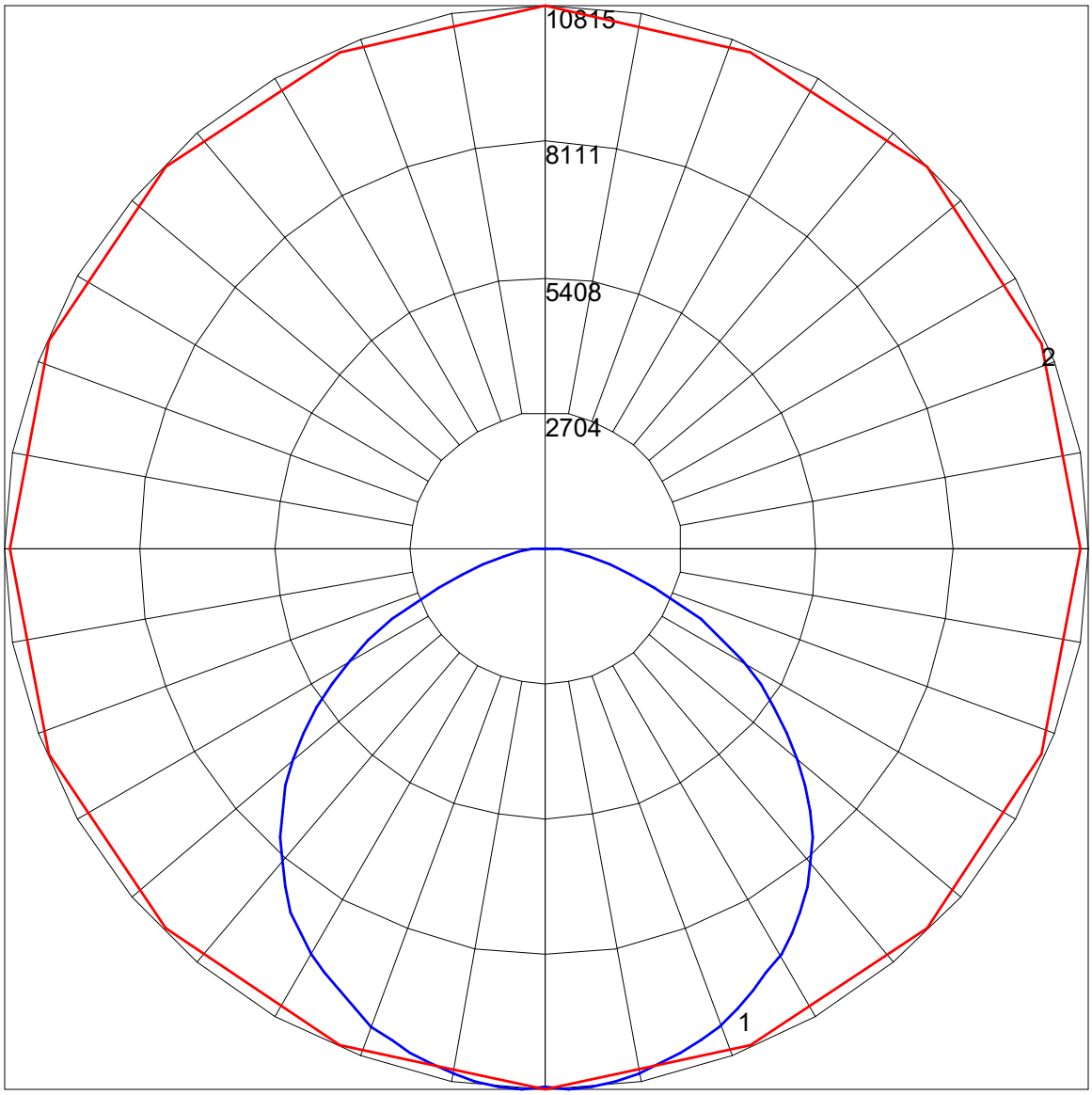
**POLAR GRAPH**




Maximum Candela = 10815  Located At Horizontal Angle = 90, Vertical Angle = 2.5
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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