**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : 4DR-TL-L70-8TW-DIM-UNV-SW-OF-WH_2700K_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] GEN from UL #12316380.11
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2026-10-14
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 4DR-TL-L70-8TW-DIM-UNV-SW-OF-WH_2700K_
[LUMINAIRE] Black formed aluminum housing, white reflector, frosted plastic
[MORE] lens enclosure
[LAMP] One LED
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Indoor, Commercial, Corridor, Hotel, Office, Downlight
[_SEARCH_MOUNTING] Recessed

**CHARACTERISTICS**

| | |
|---|---|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3748 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 64 |
| Total Luminaire Watts | 58.4 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.20 |
| Spacing Criterion (Diagonal) | 1.28 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.35 ft (Diameter) |
| Luminous Width (90-270) | 0.35 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 | 135331 | 135331 | 135331 |
| 55 | 115511 | 115511 | 115511 |
| 65 | 98527 | 98527 | 98527 |
| 75 | 81474 | 81474 | 81474 |
| 85 | 50420 | 50420 | 50420 |

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

| | 0 |
|---|---|
| **0.0** | 1577.833 |
| **0.5** | 1577.551 |
| **1.0** | 1576.708 |
| **1.5** | 1575.864 |
| **2.0** | 1574.176 |
| **2.5** | 1572.489 |
| **3.0** | 1570.239 |
| **3.5** | 1567.989 |
| **4.0** | 1565.739 |
| **4.5** | 1563.489 |
| **5.0** | 1561.520 |
| **5.5** | 1559.270 |
| **6.0** | 1557.020 |
| **6.5** | 1554.770 |
| **7.0** | 1552.239 |
| **7.5** | 1549.426 |
| **8.0** | 1546.614 |
| **8.5** | 1543.801 |
| **9.0** | 1540.707 |
| **9.5** | 1537.613 |
| **10.0** | 1534.238 |
| **10.5** | 1530.863 |
| **11.0** | 1527.207 |
| **11.5** | 1523.269 |
| **12.0** | 1519.332 |
| **12.5** | 1515.113 |
| **13.0** | 1510.613 |
| **13.5** | 1505.832 |
| **14.0** | 1500.769 |
| **14.5** | 1495.425 |
| **15.0** | 1489.800 |
| **15.5** | 1484.175 |
| **16.0** | 1478.269 |
| **16.5** | 1472.644 |
| **17.0** | 1466.456 |
| **17.5** | 1460.269 |
| **18.0** | 1454.081 |
| **18.5** | 1447.894 |
| **19.0** | 1441.706 |
| **19.5** | 1435.518 |
| **20.0** | 1429.331 |
| **20.5** | 1423.143 |
| **21.0** | 1416.674 |
| **21.5** | 1409.924 |
| **22.0** | 1402.893 |
| **22.5** | 1395.018 |
| **23.0** | 1387.143 |
| **23.5** | 1378.424 |
| **24.0** | 1369.705 |
| **24.5** | 1360.424 |
| **25.0** | 1350.861 |
| **25.5** | 1341.298 |
| **26.0** | 1331.173 |
| **26.5** | 1321.048 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **27.0** | 1310.642 |
| **27.5** | 1299.954 |
| **28.0** | 1289.267 |
| **28.5** | 1278.860 |
| **29.0** | 1268.454 |
| **29.5** | 1257.766 |
| **30.0** | 1247.360 |
| **30.5** | 1236.391 |
| **31.0** | 1225.141 |
| **31.5** | 1214.172 |
| **32.0** | 1202.922 |
| **32.5** | 1191.672 |
| **33.0** | 1180.140 |
| **33.5** | 1168.327 |
| **34.0** | 1156.796 |
| **34.5** | 1144.983 |
| **35.0** | 1133.171 |
| **35.5** | 1121.077 |
| **36.0** | 1108.983 |
| **36.5** | 1096.608 |
| **37.0** | 1084.233 |
| **37.5** | 1071.857 |
| **38.0** | 1059.201 |
| **38.5** | 1046.263 |
| **39.0** | 1033.888 |
| **39.5** | 1020.951 |
| **40.0** | 1008.013 |
| **40.5** | 995.356 |
| **41.0** | 982.138 |
| **41.5** | 969.481 |
| **42.0** | 956.262 |
| **42.5** | 943.325 |
| **43.0** | 930.106 |
| **43.5** | 916.605 |
| **44.0** | 903.105 |
| **44.5** | 889.605 |
| **45.0** | 875.824 |
| **45.5** | 862.324 |
| **46.0** | 848.542 |
| **46.5** | 834.761 |
| **47.0** | 820.979 |
| **47.5** | 806.917 |
| **48.0** | 793.135 |
| **48.5** | 779.072 |
| **49.0** | 765.291 |
| **49.5** | 751.510 |
| **50.0** | 737.728 |
| **50.5** | 724.228 |
| **51.0** | 710.728 |
| **51.5** | 697.228 |
| **52.0** | 684.009 |
| **52.5** | 670.790 |
| **53.0** | 657.852 |
| **53.5** | 644.915 |
| **54.0** | 631.977 |
| **54.5** | 619.320 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **55.0** | 606.383 |
| **55.5** | 593.726 |
| **56.0** | 582.195 |
| **56.5** | 569.820 |
| **57.0** | 558.007 |
| **57.5** | 546.194 |
| **58.0** | 534.382 |
| **58.5** | 522.569 |
| **59.0** | 511.319 |
| **59.5** | 500.069 |
| **60.0** | 488.819 |
| **60.5** | 478.131 |
| **61.0** | 467.162 |
| **61.5** | 455.912 |
| **62.0** | 444.943 |
| **62.5** | 433.974 |
| **63.0** | 423.287 |
| **63.5** | 412.599 |
| **64.0** | 401.911 |
| **64.5** | 391.505 |
| **65.0** | 381.099 |
| **65.5** | 370.692 |
| **66.0** | 360.286 |
| **66.5** | 350.161 |
| **67.0** | 340.317 |
| **67.5** | 330.473 |
| **68.0** | 320.629 |
| **68.5** | 311.066 |
| **69.0** | 301.504 |
| **69.5** | 291.941 |
| **70.0** | 282.379 |
| **70.5** | 273.097 |
| **71.0** | 263.872 |
| **71.5** | 254.703 |
| **72.0** | 245.647 |
| **72.5** | 236.731 |
| **73.0** | 227.844 |
| **73.5** | 219.040 |
| **74.0** | 210.321 |
| **74.5** | 201.603 |
| **75.0** | 192.996 |
| **75.5** | 184.502 |
| **76.0** | 176.009 |
| **76.5** | 167.599 |
| **77.0** | 159.302 |
| **77.5** | 151.033 |
| **78.0** | 142.877 |
| **78.5** | 134.861 |
| **79.0** | 126.902 |
| **79.5** | 119.027 |
| **80.0** | 111.348 |
| **80.5** | 103.783 |
| **81.0** | 96.301 |
| **81.5** | 88.876 |
| **82.0** | 81.592 |
| **82.5** | 74.420 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **83.0** | 67.332 |
| **83.5** | 60.329 |
| **84.0** | 53.494 |
| **84.5** | 46.772 |
| **85.0** | 40.219 |
| **85.5** | 33.947 |
| **86.0** | 28.097 |
| **86.5** | 22.978 |
| **87.0** | 18.310 |
| **87.5** | 14.119 |
| **88.0** | 10.519 |
| **88.5** | 7.678 |
| **89.0** | 5.344 |
| **89.5** | 3.459 |
| **90.0** | 2.138 |
| **90.5** | 0.000 |
| **91.0** | 0.000 |
| **91.5** | 0.000 |
| **92.0** | 0.000 |
| **92.5** | 0.000 |
| **93.0** | 0.000 |
| **93.5** | 0.000 |
| **94.0** | 0.000 |
| **94.5** | 0.000 |
| **95.0** | 0.000 |
| **95.5** | 0.000 |
| **96.0** | 0.000 |
| **96.5** | 0.000 |
| **97.0** | 0.000 |
| **97.5** | 0.000 |
| **98.0** | 0.000 |
| **98.5** | 0.000 |
| **99.0** | 0.000 |
| **99.5** | 0.000 |
| **100.0** | 0.000 |
| **100.5** | 0.000 |
| **101.0** | 0.000 |
| **101.5** | 0.000 |
| **102.0** | 0.000 |
| **102.5** | 0.000 |
| **103.0** | 0.000 |
| **103.5** | 0.000 |
| **104.0** | 0.000 |
| **104.5** | 0.000 |
| **105.0** | 0.000 |
| **105.5** | 0.000 |
| **106.0** | 0.000 |
| **106.5** | 0.000 |
| **107.0** | 0.000 |
| **107.5** | 0.000 |
| **108.0** | 0.000 |
| **108.5** | 0.000 |
| **109.0** | 0.000 |
| **109.5** | 0.000 |
| **110.0** | 0.000 |
| **110.5** | 0.000 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **111.0** | 0.000 |
| **111.5** | 0.000 |
| **112.0** | 0.000 |
| **112.5** | 0.000 |
| **113.0** | 0.000 |
| **113.5** | 0.000 |
| **114.0** | 0.000 |
| **114.5** | 0.000 |
| **115.0** | 0.000 |
| **115.5** | 0.000 |
| **116.0** | 0.000 |
| **116.5** | 0.000 |
| **117.0** | 0.000 |
| **117.5** | 0.000 |
| **118.0** | 0.000 |
| **118.5** | 0.000 |
| **119.0** | 0.000 |
| **119.5** | 0.000 |
| **120.0** | 0.000 |
| **120.5** | 0.000 |
| **121.0** | 0.000 |
| **121.5** | 0.000 |
| **122.0** | 0.000 |
| **122.5** | 0.000 |
| **123.0** | 0.000 |
| **123.5** | 0.000 |
| **124.0** | 0.000 |
| **124.5** | 0.000 |
| **125.0** | 0.000 |
| **125.5** | 0.000 |
| **126.0** | 0.000 |
| **126.5** | 0.000 |
| **127.0** | 0.000 |
| **127.5** | 0.000 |
| **128.0** | 0.000 |
| **128.5** | 0.000 |
| **129.0** | 0.000 |
| **129.5** | 0.000 |
| **130.0** | 0.000 |
| **130.5** | 0.000 |
| **131.0** | 0.000 |
| **131.5** | 0.000 |
| **132.0** | 0.000 |
| **132.5** | 0.000 |
| **133.0** | 0.000 |
| **133.5** | 0.000 |
| **134.0** | 0.000 |
| **134.5** | 0.000 |
| **135.0** | 0.000 |
| **135.5** | 0.000 |
| **136.0** | 0.000 |
| **136.5** | 0.000 |
| **137.0** | 0.000 |
| **137.5** | 0.000 |
| **138.0** | 0.000 |
| **138.5** | 0.000 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **139.0** | 0.000 |
| **139.5** | 0.000 |
| **140.0** | 0.000 |
| **140.5** | 0.000 |
| **141.0** | 0.000 |
| **141.5** | 0.000 |
| **142.0** | 0.000 |
| **142.5** | 0.000 |
| **143.0** | 0.000 |
| **143.5** | 0.000 |
| **144.0** | 0.000 |
| **144.5** | 0.000 |
| **145.0** | 0.000 |
| **145.5** | 0.000 |
| **146.0** | 0.000 |
| **146.5** | 0.000 |
| **147.0** | 0.000 |
| **147.5** | 0.000 |
| **148.0** | 0.000 |
| **148.5** | 0.000 |
| **149.0** | 0.000 |
| **149.5** | 0.000 |
| **150.0** | 0.000 |
| **150.5** | 0.000 |
| **151.0** | 0.000 |
| **151.5** | 0.000 |
| **152.0** | 0.000 |
| **152.5** | 0.000 |
| **153.0** | 0.000 |
| **153.5** | 0.000 |
| **154.0** | 0.000 |
| **154.5** | 0.000 |
| **155.0** | 0.000 |
| **155.5** | 0.000 |
| **156.0** | 0.000 |
| **156.5** | 0.000 |
| **157.0** | 0.000 |
| **157.5** | 0.000 |
| **158.0** | 0.000 |
| **158.5** | 0.000 |
| **159.0** | 0.000 |
| **159.5** | 0.000 |
| **160.0** | 0.000 |
| **160.5** | 0.000 |
| **161.0** | 0.000 |
| **161.5** | 0.000 |
| **162.0** | 0.000 |
| **162.5** | 0.000 |
| **163.0** | 0.000 |
| **163.5** | 0.000 |
| **164.0** | 0.000 |
| **164.5** | 0.000 |
| **165.0** | 0.000 |
| **165.5** | 0.000 |
| **166.0** | 0.000 |
| **166.5** | 0.000 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **167.0** | 0.000 |
| **167.5** | 0.000 |
| **168.0** | 0.000 |
| **168.5** | 0.000 |
| **169.0** | 0.000 |
| **169.5** | 0.000 |
| **170.0** | 0.000 |
| **170.5** | 0.000 |
| **171.0** | 0.000 |
| **171.5** | 0.000 |
| **172.0** | 0.000 |
| **172.5** | 0.000 |
| **173.0** | 0.000 |
| **173.5** | 0.000 |
| **174.0** | 0.000 |
| **174.5** | 0.000 |
| **175.0** | 0.000 |
| **175.5** | 0.000 |
| **176.0** | 0.000 |
| **176.5** | 0.000 |
| **177.0** | 0.000 |
| **177.5** | 0.000 |
| **178.0** | 0.000 |
| **178.5** | 0.000 |
| **179.0** | 0.000 |
| **179.5** | 0.000 |
| **180.0** | 0.000 |

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**PHOTOMETRIC FILENAME : 4DR-TL-L70-8TW-DIM-UNV-SW-OF-WH_2700K_.IES**

**ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---|---|---|---|
| 0-20 | 568.10 | N.A. | 15.20 |
| 0-30 | 1188.69 | N.A. | 31.70 |
| 0-40 | 1896.21 | N.A. | 50.60 |
| 0-60 | 3114.74 | N.A. | 83.10 |
| 0-80 | 3697.97 | N.A. | 98.70 |
| 0-90 | 3747.68 | N.A. | 100.00 |
| 10-90 | 3599.46 | N.A. | 96.00 |
| 20-40 | 1328.11 | N.A. | 35.40 |
| 20-50 | 2002.59 | N.A. | 53.40 |
| 40-70 | 1596.97 | N.A. | 42.60 |
| 60-80 | 583.23 | N.A. | 15.60 |
| 70-80 | 204.78 | N.A. | 5.50 |
| 80-90 | 49.71 | N.A. | 1.30 |
| 90-110 | 0.06 | N.A. | 0.00 |
| 90-120 | 0.06 | N.A. | 0.00 |
| 90-130 | 0.06 | N.A. | 0.00 |
| 90-150 | 0.06 | N.A. | 0.00 |
| 90-180 | 0.06 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 3747.74 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone | Lumens |
|---|---|
| 0-10 | 148.22 |
| 10-20 | 419.88 |
| 20-30 | 620.59 |
| 30-40 | 707.52 |
| 40-50 | 674.48 |
| 50-60 | 544.05 |
| 60-70 | 378.44 |
| 70-80 | 204.78 |
| 80-90 | 49.71 |
| 90-100 | 0.06 |
| 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 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 77 | 74 | 72 |
| 3 | 92 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 75 | 69 | 65 | 72 | 68 | 64 | 62 |
| 4 | 84 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 53 |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 47 |
| 6 | 72 | 59 | 51 | 45 | 70 | 58 | 50 | 44 | 57 | 49 | 44 | 55 | 49 | 44 | 53 | 48 | 43 | 41 |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 |
| 8 | 63 | 49 | 41 | 36 | 61 | 49 | 41 | 35 | 48 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 9 | 59 | 46 | 38 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 30 |
| 10 | 55 | 42 | 34 | 29 | 54 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 |

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**UGR TABLE - CORRECTED**

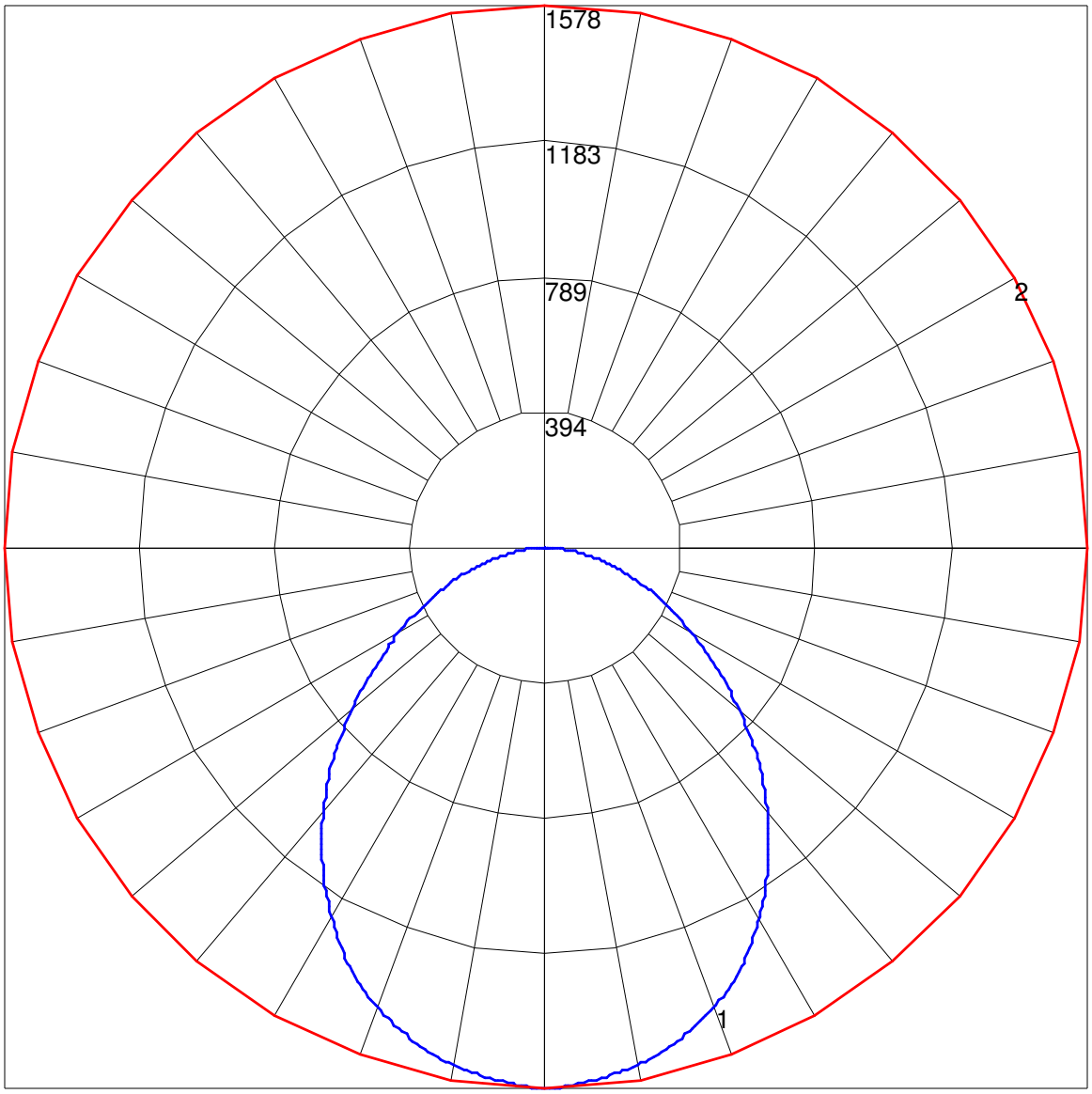
| Reflectances | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ceiling Cavity | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
| X=2H | Y=2H | 27.3 | 28.9 | 27.7 | 29.2 | 29.5 | 27.3 | 28.9 | 27.7 | 29.2 | 29.5 |
| | 3H | 28.9 | 30.3 | 29.3 | 30.7 | 31.0 | 28.9 | 30.3 | 29.3 | 30.7 | 31.0 |
| | 4H | 29.5 | 30.8 | 29.9 | 31.2 | 31.5 | 29.5 | 30.8 | 29.9 | 31.2 | 31.5 |
| | 6H | 29.9 | 31.1 | 30.3 | 31.5 | 31.9 | 29.9 | 31.1 | 30.3 | 31.5 | 31.9 |
| | 8H | 30.0 | 31.2 | 30.4 | 31.6 | 32.0 | 30.0 | 31.2 | 30.4 | 31.6 | 32.0 |
| | 12H | 30.1 | 31.2 | 30.5 | 31.6 | 32.0 | 30.1 | 31.2 | 30.5 | 31.6 | 32.0 |
| 4H | 2H | 27.9 | 29.2 | 28.3 | 29.6 | 29.9 | 27.9 | 29.2 | 28.3 | 29.6 | 29.9 |
| | 3H | 29.7 | 30.8 | 30.1 | 31.2 | 31.6 | 29.7 | 30.8 | 30.1 | 31.2 | 31.6 |
| | 4H | 30.4 | 31.4 | 30.8 | 31.8 | 32.2 | 30.4 | 31.4 | 30.8 | 31.8 | 32.2 |
| | 6H | 30.9 | 31.8 | 31.4 | 32.2 | 32.7 | 30.9 | 31.8 | 31.4 | 32.2 | 32.7 |
| | 8H | 31.0 | 31.9 | 31.5 | 32.3 | 32.8 | 31.0 | 31.9 | 31.5 | 32.3 | 32.8 |
| | 12H | 31.1 | 31.9 | 31.6 | 32.3 | 32.8 | 31.1 | 31.9 | 31.6 | 32.3 | 32.8 |
| 8H | 4H | 30.6 | 31.4 | 31.1 | 31.9 | 32.4 | 30.6 | 31.4 | 31.1 | 31.9 | 32.4 |
| | 6H | 31.2 | 31.9 | 31.7 | 32.4 | 32.9 | 31.2 | 31.9 | 31.7 | 32.4 | 32.9 |
| | 8H | 31.5 | 32.1 | 32.0 | 32.6 | 33.1 | 31.5 | 32.1 | 32.0 | 32.6 | 33.1 |
| | 12H | 31.6 | 32.1 | 32.1 | 32.6 | 33.2 | 31.6 | 32.1 | 32.1 | 32.6 | 33.2 |
| 12H | 4H | 30.7 | 31.4 | 31.1 | 31.9 | 32.3 | 30.7 | 31.4 | 31.1 | 31.9 | 32.3 |
| | 6H | 31.3 | 31.9 | 31.8 | 32.4 | 32.9 | 31.3 | 31.9 | 31.8 | 32.4 | 32.9 |
| | 8H | 31.5 | 32.1 | 32.1 | 32.6 | 33.1 | 31.5 | 32.1 | 32.1 | 32.6 | 33.1 |

Maximum UGR = 33.2

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Results derived from content of manufacturers photometric file.

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : 4DR-TL-L70-8TW-DIM-UNV-SW-OF-WH_2700K_.IES**

**POLAR GRAPH**




Maximum Candela = 1577.833  Located At Horizontal Angle = 0, Vertical Angle = 0
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

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