**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : 4DR-TL-L10-8TW-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-L10-8TW-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 | 499 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 53 |
| Total Luminaire Watts | 9.5 |
| 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 | 18036 | 18036 | 18036 |
| 55 | 15395 | 15395 | 15395 |
| 65 | 13131 | 13131 | 13131 |
| 75 | 10858 | 10858 | 10858 |
| 85 | 6719 | 6719 | 6719 |

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**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : 4DR-TL-L10-8TW-DIM-UNV-SW-OF-WH_2700K_.IES**

**CANDELA TABULATION**

| | 0 |
|---|---|
| **0.0** | 210.285 |
| **0.5** | 210.247 |
| **1.0** | 210.135 |
| **1.5** | 210.022 |
| **2.0** | 209.797 |
| **2.5** | 209.572 |
| **3.0** | 209.272 |
| **3.5** | 208.973 |
| **4.0** | 208.673 |
| **4.5** | 208.373 |
| **5.0** | 208.110 |
| **5.5** | 207.811 |
| **6.0** | 207.511 |
| **6.5** | 207.211 |
| **7.0** | 206.873 |
| **7.5** | 206.499 |
| **8.0** | 206.124 |
| **8.5** | 205.749 |
| **9.0** | 205.337 |
| **9.5** | 204.924 |
| **10.0** | 204.475 |
| **10.5** | 204.025 |
| **11.0** | 203.537 |
| **11.5** | 203.013 |
| **12.0** | 202.488 |
| **12.5** | 201.926 |
| **13.0** | 201.326 |
| **13.5** | 200.689 |
| **14.0** | 200.014 |
| **14.5** | 199.302 |
| **15.0** | 198.552 |
| **15.5** | 197.802 |
| **16.0** | 197.015 |
| **16.5** | 196.266 |
| **17.0** | 195.441 |
| **17.5** | 194.616 |
| **18.0** | 193.792 |
| **18.5** | 192.967 |
| **19.0** | 192.142 |
| **19.5** | 191.318 |
| **20.0** | 190.493 |
| **20.5** | 189.668 |
| **21.0** | 188.806 |
| **21.5** | 187.907 |
| **22.0** | 186.970 |
| **22.5** | 185.920 |
| **23.0** | 184.870 |
| **23.5** | 183.708 |
| **24.0** | 182.546 |
| **24.5** | 181.309 |
| **25.0** | 180.035 |
| **25.5** | 178.761 |
| **26.0** | 177.411 |
| **26.5** | 176.062 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **27.0** | 174.675 |
| **27.5** | 173.250 |
| **28.0** | 171.826 |
| **28.5** | 170.439 |
| **29.0** | 169.052 |
| **29.5** | 167.628 |
| **30.0** | 166.241 |
| **30.5** | 164.779 |
| **31.0** | 163.280 |
| **31.5** | 161.818 |
| **32.0** | 160.319 |
| **32.5** | 158.819 |
| **33.0** | 157.282 |
| **33.5** | 155.708 |
| **34.0** | 154.171 |
| **34.5** | 152.597 |
| **35.0** | 151.023 |
| **35.5** | 149.411 |
| **36.0** | 147.799 |
| **36.5** | 146.150 |
| **37.0** | 144.500 |
| **37.5** | 142.851 |
| **38.0** | 141.164 |
| **38.5** | 139.440 |
| **39.0** | 137.791 |
| **39.5** | 136.066 |
| **40.0** | 134.342 |
| **40.5** | 132.655 |
| **41.0** | 130.894 |
| **41.5** | 129.207 |
| **42.0** | 127.445 |
| **42.5** | 125.721 |
| **43.0** | 123.959 |
| **43.5** | 122.160 |
| **44.0** | 120.361 |
| **44.5** | 118.561 |
| **45.0** | 116.725 |
| **45.5** | 114.926 |
| **46.0** | 113.089 |
| **46.5** | 111.252 |
| **47.0** | 109.415 |
| **47.5** | 107.541 |
| **48.0** | 105.705 |
| **48.5** | 103.830 |
| **49.0** | 101.994 |
| **49.5** | 100.157 |
| **50.0** | 98.320 |
| **50.5** | 96.521 |
| **51.0** | 94.722 |
| **51.5** | 92.923 |
| **52.0** | 91.161 |
| **52.5** | 89.399 |
| **53.0** | 87.675 |
| **53.5** | 85.951 |
| **54.0** | 84.226 |
| **54.5** | 82.539 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **55.0** | 80.815 |
| **55.5** | 79.128 |
| **56.0** | 77.592 |
| **56.5** | 75.942 |
| **57.0** | 74.368 |
| **57.5** | 72.794 |
| **58.0** | 71.219 |
| **58.5** | 69.645 |
| **59.0** | 68.146 |
| **59.5** | 66.646 |
| **60.0** | 65.147 |
| **60.5** | 63.723 |
| **61.0** | 62.261 |
| **61.5** | 60.761 |
| **62.0** | 59.299 |
| **62.5** | 57.838 |
| **63.0** | 56.413 |
| **63.5** | 54.989 |
| **64.0** | 53.564 |
| **64.5** | 52.178 |
| **65.0** | 50.791 |
| **65.5** | 49.404 |
| **66.0** | 48.017 |
| **66.5** | 46.667 |
| **67.0** | 45.355 |
| **67.5** | 44.044 |
| **68.0** | 42.732 |
| **68.5** | 41.457 |
| **69.0** | 40.183 |
| **69.5** | 38.908 |
| **70.0** | 37.634 |
| **70.5** | 36.397 |
| **71.0** | 35.167 |
| **71.5** | 33.945 |
| **72.0** | 32.738 |
| **72.5** | 31.550 |
| **73.0** | 30.366 |
| **73.5** | 29.192 |
| **74.0** | 28.030 |
| **74.5** | 26.868 |
| **75.0** | 25.721 |
| **75.5** | 24.589 |
| **76.0** | 23.457 |
| **76.5** | 22.337 |
| **77.0** | 21.231 |
| **77.5** | 20.129 |
| **78.0** | 19.042 |
| **78.5** | 17.974 |
| **79.0** | 16.913 |
| **79.5** | 15.863 |
| **80.0** | 14.840 |
| **80.5** | 13.832 |
| **81.0** | 12.834 |
| **81.5** | 11.845 |
| **82.0** | 10.874 |
| **82.5** | 9.918 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **83.0** | 8.974 |
| **83.5** | 8.040 |
| **84.0** | 7.129 |
| **84.5** | 6.234 |
| **85.0** | 5.360 |
| **85.5** | 4.524 |
| **86.0** | 3.745 |
| **86.5** | 3.062 |
| **87.0** | 2.440 |
| **87.5** | 1.882 |
| **88.0** | 1.402 |
| **88.5** | 1.023 |
| **89.0** | 0.712 |
| **89.5** | 0.461 |
| **90.0** | 0.285 |
| **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-L10-8TW-DIM-UNV-SW-OF-WH_2700K_.IES**

**ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---|---|---|---|
| 0-20 | 75.71 | N.A. | 15.20 |
| 0-30 | 158.42 | N.A. | 31.70 |
| 0-40 | 252.72 | N.A. | 50.60 |
| 0-60 | 415.11 | N.A. | 83.10 |
| 0-80 | 492.84 | N.A. | 98.70 |
| 0-90 | 499.47 | N.A. | 100.00 |
| 10-90 | 479.72 | N.A. | 96.00 |
| 20-40 | 177.00 | N.A. | 35.40 |
| 20-50 | 266.89 | N.A. | 53.40 |
| 40-70 | 212.84 | N.A. | 42.60 |
| 60-80 | 77.73 | N.A. | 15.60 |
| 70-80 | 27.29 | N.A. | 5.50 |
| 80-90 | 6.63 | N.A. | 1.30 |
| 90-110 | 0.01 | N.A. | 0.00 |
| 90-120 | 0.01 | N.A. | 0.00 |
| 90-130 | 0.01 | N.A. | 0.00 |
| 90-150 | 0.01 | N.A. | 0.00 |
| 90-180 | 0.01 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 499.48 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone | Lumens |
|---|---|
| 0-10 | 19.75 |
| 10-20 | 55.96 |
| 20-30 | 82.71 |
| 30-40 | 94.29 |
| 40-50 | 89.89 |
| 50-60 | 72.51 |
| 60-70 | 50.44 |
| 70-80 | 27.29 |
| 80-90 | 6.63 |
| 90-100 | 0.01 |
| 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 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 74 | 72 |
| 3 | 92 | 82 | 74 | 68 | 90 | 80 | 73 | 67 | 77 | 71 | 66 | 75 | 70 | 65 | 72 | 68 | 64 | 62 |
| 4 | 85 | 73 | 65 | 58 | 82 | 72 | 64 | 58 | 69 | 63 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 54 |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 56 | 50 | 62 | 55 | 50 | 61 | 54 | 49 | 59 | 53 | 49 | 47 |
| 6 | 72 | 59 | 51 | 45 | 70 | 58 | 50 | 44 | 57 | 49 | 44 | 55 | 49 | 44 | 54 | 48 | 43 | 41 |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 |
| 8 | 63 | 50 | 41 | 36 | 61 | 49 | 41 | 36 | 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**

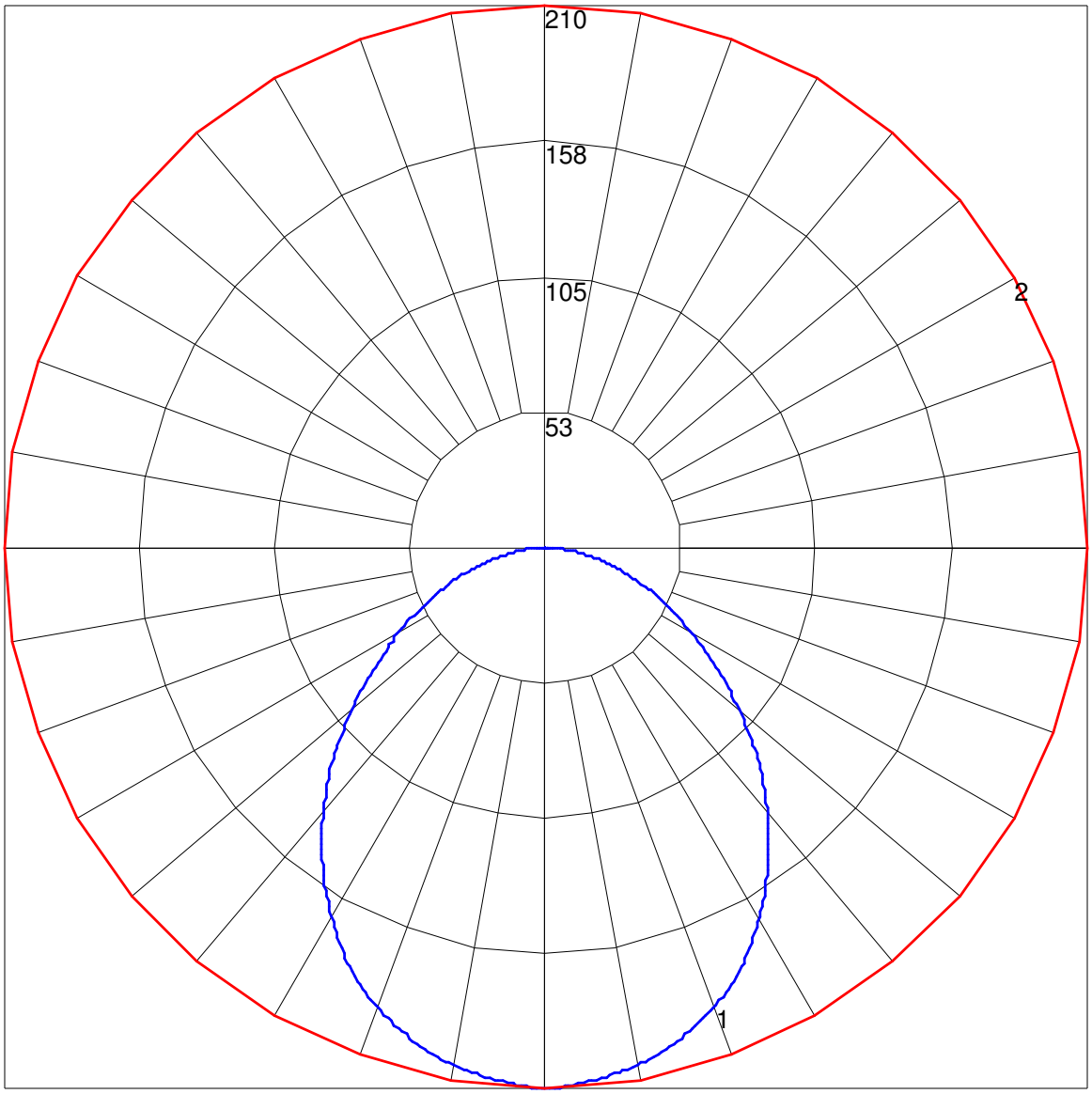
| Reflectances | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ceiling Cavity | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
| X=2H | Y=2H | 20.3 | 21.9 | 20.7 | 22.2 | 22.5 | 20.3 | 21.9 | 20.7 | 22.2 | 22.5 |
| | 3H | 21.9 | 23.3 | 22.3 | 23.7 | 24.0 | 21.9 | 23.3 | 22.3 | 23.7 | 24.0 |
| | 4H | 22.5 | 23.8 | 22.9 | 24.2 | 24.5 | 22.5 | 23.8 | 22.9 | 24.2 | 24.5 |
| | 6H | 22.9 | 24.1 | 23.3 | 24.5 | 24.9 | 22.9 | 24.1 | 23.3 | 24.5 | 24.9 |
| | 8H | 23.0 | 24.2 | 23.4 | 24.6 | 25.0 | 23.0 | 24.2 | 23.4 | 24.6 | 25.0 |
| | 12H | 23.1 | 24.2 | 23.5 | 24.6 | 25.0 | 23.1 | 24.2 | 23.5 | 24.6 | 25.0 |
| 4H | 2H | 20.9 | 22.2 | 21.3 | 22.6 | 22.9 | 20.9 | 22.2 | 21.3 | 22.6 | 22.9 |
| | 3H | 22.7 | 23.8 | 23.1 | 24.2 | 24.6 | 22.7 | 23.8 | 23.1 | 24.2 | 24.6 |
| | 4H | 23.4 | 24.4 | 23.8 | 24.8 | 25.2 | 23.4 | 24.4 | 23.8 | 24.8 | 25.2 |
| | 6H | 23.9 | 24.8 | 24.4 | 25.2 | 25.7 | 23.9 | 24.8 | 24.4 | 25.2 | 25.7 |
| | 8H | 24.1 | 24.9 | 24.5 | 25.3 | 25.8 | 24.1 | 24.9 | 24.5 | 25.3 | 25.8 |
| | 12H | 24.1 | 24.9 | 24.6 | 25.3 | 25.8 | 24.1 | 24.9 | 24.6 | 25.3 | 25.8 |
| 8H | 4H | 23.6 | 24.4 | 24.1 | 24.9 | 25.4 | 23.6 | 24.4 | 24.1 | 24.9 | 25.4 |
| | 6H | 24.3 | 24.9 | 24.7 | 25.4 | 25.9 | 24.3 | 24.9 | 24.7 | 25.4 | 25.9 |
| | 8H | 24.5 | 25.1 | 25.0 | 25.6 | 26.1 | 24.5 | 25.1 | 25.0 | 25.6 | 26.1 |
| | 12H | 24.6 | 25.2 | 25.1 | 25.6 | 26.2 | 24.6 | 25.2 | 25.1 | 25.6 | 26.2 |
| 12H | 4H | 23.7 | 24.4 | 24.1 | 24.9 | 25.3 | 23.7 | 24.4 | 24.1 | 24.9 | 25.3 |
| | 6H | 24.3 | 24.9 | 24.8 | 25.4 | 25.9 | 24.3 | 24.9 | 24.8 | 25.4 | 25.9 |
| | 8H | 24.6 | 25.1 | 25.1 | 25.6 | 26.1 | 24.6 | 25.1 | 25.1 | 25.6 | 26.1 |

Maximum UGR = 26.2

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Results derived from content of manufacturers photometric file.

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : 4DR-TL-L10-8TW-DIM-UNV-SW-OF-WH_2700K_.IES**

**POLAR GRAPH**




Maximum Candela = 210.285  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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