**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : 4DR-TL-L15-8TW-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-L15-8TW-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 | 741 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 54 |
| Total Luminaire Watts | 13.7 |
| 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 | 26755 | 26755 | 26755 |
| 55 | 22836 | 22836 | 22836 |
| 65 | 19479 | 19479 | 19479 |
| 75 | 16107 | 16107 | 16107 |
| 85 | 9968 | 9968 | 9968 |

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**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : 4DR-TL-L15-8TW-DIM-UNV-SW-OF-WH_2700K_.IES**

**CANDELA TABULATION**

| | 0 |
|---|---|
| **0.0** | 311.934 |
| **0.5** | 311.878 |
| **1.0** | 311.711 |
| **1.5** | 311.544 |
| **2.0** | 311.211 |
| **2.5** | 310.877 |
| **3.0** | 310.432 |
| **3.5** | 309.988 |
| **4.0** | 309.543 |
| **4.5** | 309.098 |
| **5.0** | 308.709 |
| **5.5** | 308.264 |
| **6.0** | 307.819 |
| **6.5** | 307.374 |
| **7.0** | 306.874 |
| **7.5** | 306.318 |
| **8.0** | 305.762 |
| **8.5** | 305.206 |
| **9.0** | 304.594 |
| **9.5** | 303.982 |
| **10.0** | 303.315 |
| **10.5** | 302.648 |
| **11.0** | 301.925 |
| **11.5** | 301.147 |
| **12.0** | 300.368 |
| **12.5** | 299.534 |
| **13.0** | 298.645 |
| **13.5** | 297.699 |
| **14.0** | 296.698 |
| **14.5** | 295.642 |
| **15.0** | 294.530 |
| **15.5** | 293.418 |
| **16.0** | 292.250 |
| **16.5** | 291.138 |
| **17.0** | 289.915 |
| **17.5** | 288.692 |
| **18.0** | 287.468 |
| **18.5** | 286.245 |
| **19.0** | 285.022 |
| **19.5** | 283.798 |
| **20.0** | 282.575 |
| **20.5** | 281.352 |
| **21.0** | 280.073 |
| **21.5** | 278.739 |
| **22.0** | 277.349 |
| **22.5** | 275.792 |
| **23.0** | 274.235 |
| **23.5** | 272.511 |
| **24.0** | 270.787 |
| **24.5** | 268.952 |
| **25.0** | 267.062 |
| **25.5** | 265.171 |
| **26.0** | 263.170 |
| **26.5** | 261.168 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **27.0** | 259.111 |
| **27.5** | 256.998 |
| **28.0** | 254.885 |
| **28.5** | 252.828 |
| **29.0** | 250.770 |
| **29.5** | 248.657 |
| **30.0** | 246.600 |
| **30.5** | 244.431 |
| **31.0** | 242.207 |
| **31.5** | 240.039 |
| **32.0** | 237.815 |
| **32.5** | 235.591 |
| **33.0** | 233.311 |
| **33.5** | 230.975 |
| **34.0** | 228.696 |
| **34.5** | 226.360 |
| **35.0** | 224.025 |
| **35.5** | 221.634 |
| **36.0** | 219.243 |
| **36.5** | 216.797 |
| **37.0** | 214.350 |
| **37.5** | 211.904 |
| **38.0** | 209.401 |
| **38.5** | 206.844 |
| **39.0** | 204.397 |
| **39.5** | 201.839 |
| **40.0** | 199.282 |
| **40.5** | 196.780 |
| **41.0** | 194.166 |
| **41.5** | 191.664 |
| **42.0** | 189.051 |
| **42.5** | 186.493 |
| **43.0** | 183.880 |
| **43.5** | 181.211 |
| **44.0** | 178.542 |
| **44.5** | 175.873 |
| **45.0** | 173.148 |
| **45.5** | 170.479 |
| **46.0** | 167.755 |
| **46.5** | 165.030 |
| **47.0** | 162.306 |
| **47.5** | 159.525 |
| **48.0** | 156.801 |
| **48.5** | 154.021 |
| **49.0** | 151.296 |
| **49.5** | 148.572 |
| **50.0** | 145.847 |
| **50.5** | 143.178 |
| **51.0** | 140.509 |
| **51.5** | 137.840 |
| **52.0** | 135.227 |
| **52.5** | 132.614 |
| **53.0** | 130.056 |
| **53.5** | 127.498 |
| **54.0** | 124.940 |
| **54.5** | 122.438 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **55.0** | 119.880 |
| **55.5** | 117.378 |
| **56.0** | 115.099 |
| **56.5** | 112.652 |
| **57.0** | 110.317 |
| **57.5** | 107.981 |
| **58.0** | 105.646 |
| **58.5** | 103.311 |
| **59.0** | 101.087 |
| **59.5** | 98.862 |
| **60.0** | 96.638 |
| **60.5** | 94.525 |
| **61.0** | 92.357 |
| **61.5** | 90.133 |
| **62.0** | 87.964 |
| **62.5** | 85.796 |
| **63.0** | 83.683 |
| **63.5** | 81.570 |
| **64.0** | 79.457 |
| **64.5** | 77.400 |
| **65.0** | 75.342 |
| **65.5** | 73.285 |
| **66.0** | 71.228 |
| **66.5** | 69.226 |
| **67.0** | 67.280 |
| **67.5** | 65.334 |
| **68.0** | 63.388 |
| **68.5** | 61.497 |
| **69.0** | 59.607 |
| **69.5** | 57.716 |
| **70.0** | 55.826 |
| **70.5** | 53.991 |
| **71.0** | 52.167 |
| **71.5** | 50.354 |
| **72.0** | 48.564 |
| **72.5** | 46.801 |
| **73.0** | 45.044 |
| **73.5** | 43.304 |
| **74.0** | 41.580 |
| **74.5** | 39.856 |
| **75.0** | 38.155 |
| **75.5** | 36.476 |
| **76.0** | 34.796 |
| **76.5** | 33.134 |
| **77.0** | 31.494 |
| **77.5** | 29.859 |
| **78.0** | 28.246 |
| **78.5** | 26.662 |
| **79.0** | 25.088 |
| **79.5** | 23.531 |
| **80.0** | 22.013 |
| **80.5** | 20.518 |
| **81.0** | 19.039 |
| **81.5** | 17.571 |
| **82.0** | 16.130 |
| **82.5** | 14.713 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **83.0** | 13.311 |
| **83.5** | 11.927 |
| **84.0** | 10.576 |
| **84.5** | 9.247 |
| **85.0** | 7.951 |
| **85.5** | 6.711 |
| **86.0** | 5.555 |
| **86.5** | 4.543 |
| **87.0** | 3.620 |
| **87.5** | 2.791 |
| **88.0** | 2.080 |
| **88.5** | 1.518 |
| **89.0** | 1.056 |
| **89.5** | 0.684 |
| **90.0** | 0.423 |
| **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-L15-8TW-DIM-UNV-SW-OF-WH_2700K_.IES**

**ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---|---|---|---|
| 0-20 | 112.31 | N.A. | 15.20 |
| 0-30 | 235.00 | N.A. | 31.70 |
| 0-40 | 374.88 | N.A. | 50.60 |
| 0-60 | 615.78 | N.A. | 83.10 |
| 0-80 | 731.08 | N.A. | 98.70 |
| 0-90 | 740.91 | N.A. | 100.00 |
| 10-90 | 711.61 | N.A. | 96.00 |
| 20-40 | 262.56 | N.A. | 35.40 |
| 20-50 | 395.91 | N.A. | 53.40 |
| 40-70 | 315.72 | N.A. | 42.60 |
| 60-80 | 115.30 | N.A. | 15.60 |
| 70-80 | 40.49 | N.A. | 5.50 |
| 80-90 | 9.83 | 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 | 740.92 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone | Lumens |
|---|---|
| 0-10 | 29.30 |
| 10-20 | 83.01 |
| 20-30 | 122.69 |
| 30-40 | 139.87 |
| 40-50 | 133.34 |
| 50-60 | 107.56 |
| 60-70 | 74.82 |
| 70-80 | 40.49 |
| 80-90 | 9.83 |
| 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 | 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**

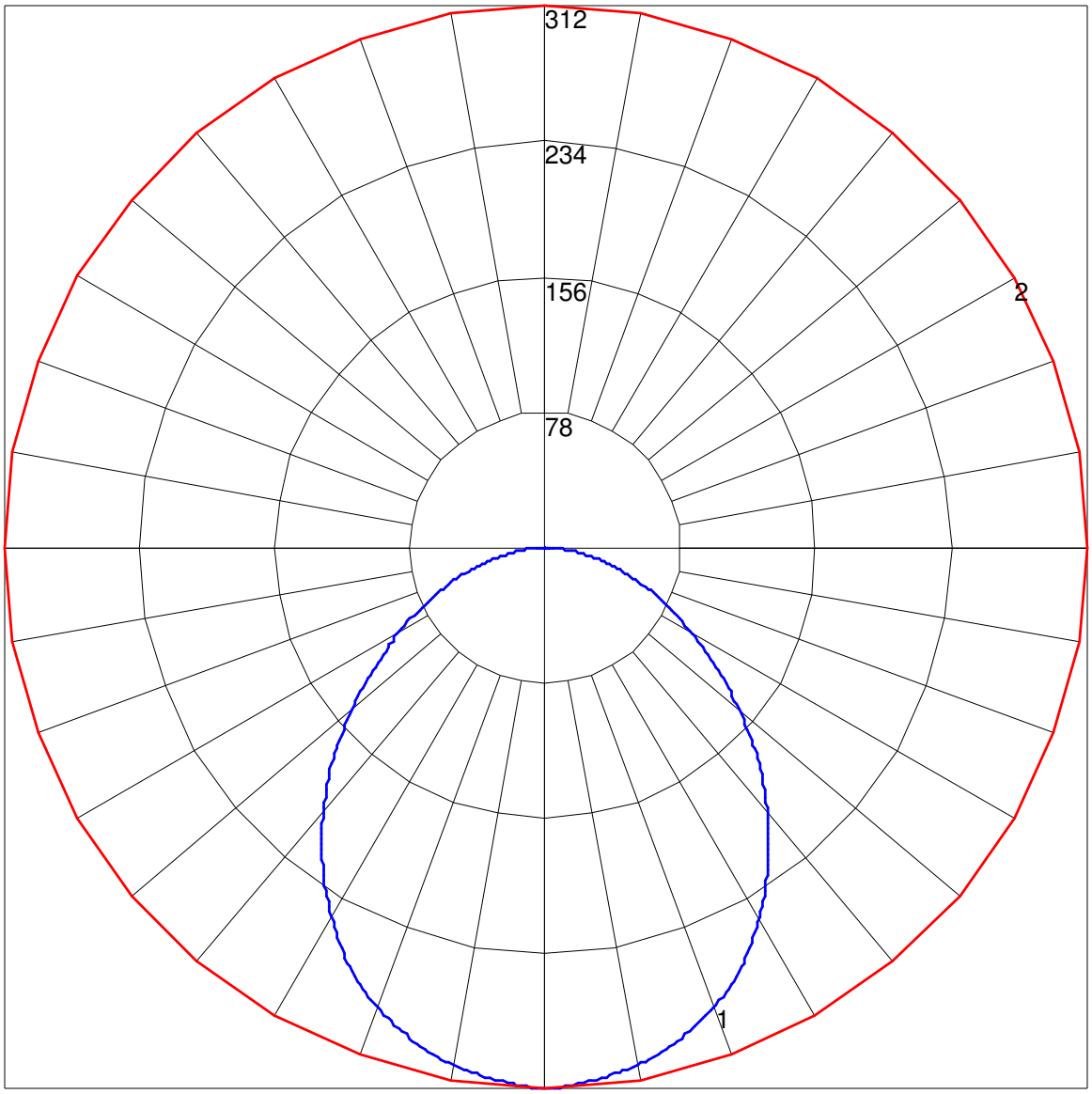
| Reflectances | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ceiling Cavity | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
| X=2H | Y=2H | 21.7 | 23.3 | 22.1 | 23.6 | 23.9 | 21.7 | 23.3 | 22.1 | 23.6 | 23.9 |
| | 3H | 23.3 | 24.7 | 23.7 | 25.1 | 25.4 | 23.3 | 24.7 | 23.7 | 25.1 | 25.4 |
| | 4H | 23.9 | 25.2 | 24.3 | 25.6 | 25.9 | 23.9 | 25.2 | 24.3 | 25.6 | 25.9 |
| | 6H | 24.3 | 25.5 | 24.7 | 25.9 | 26.3 | 24.3 | 25.5 | 24.7 | 25.9 | 26.3 |
| | 8H | 24.4 | 25.6 | 24.8 | 26.0 | 26.4 | 24.4 | 25.6 | 24.8 | 26.0 | 26.4 |
| | 12H | 24.5 | 25.6 | 24.9 | 26.0 | 26.4 | 24.5 | 25.6 | 24.9 | 26.0 | 26.4 |
| 4H | 2H | 22.3 | 23.6 | 22.7 | 24.0 | 24.3 | 22.3 | 23.6 | 22.7 | 24.0 | 24.3 |
| | 3H | 24.1 | 25.2 | 24.5 | 25.6 | 26.0 | 24.1 | 25.2 | 24.5 | 25.6 | 26.0 |
| | 4H | 24.8 | 25.8 | 25.2 | 26.2 | 26.6 | 24.8 | 25.8 | 25.2 | 26.2 | 26.6 |
| | 6H | 25.3 | 26.2 | 25.8 | 26.6 | 27.1 | 25.3 | 26.2 | 25.8 | 26.6 | 27.1 |
| | 8H | 25.4 | 26.3 | 25.9 | 26.7 | 27.2 | 25.4 | 26.3 | 25.9 | 26.7 | 27.2 |
| | 12H | 25.5 | 26.3 | 26.0 | 26.7 | 27.2 | 25.5 | 26.3 | 26.0 | 26.7 | 27.2 |
| 8H | 4H | 25.0 | 25.8 | 25.5 | 26.3 | 26.8 | 25.0 | 25.8 | 25.5 | 26.3 | 26.8 |
| | 6H | 25.7 | 26.3 | 26.1 | 26.8 | 27.3 | 25.7 | 26.3 | 26.1 | 26.8 | 27.3 |
| | 8H | 25.9 | 26.5 | 26.4 | 27.0 | 27.5 | 25.9 | 26.5 | 26.4 | 27.0 | 27.5 |
| | 12H | 26.0 | 26.5 | 26.5 | 27.0 | 27.6 | 26.0 | 26.5 | 26.5 | 27.0 | 27.6 |
| 12H | 4H | 25.1 | 25.8 | 25.5 | 26.3 | 26.7 | 25.1 | 25.8 | 25.5 | 26.3 | 26.7 |
| | 6H | 25.7 | 26.3 | 26.2 | 26.8 | 27.3 | 25.7 | 26.3 | 26.2 | 26.8 | 27.3 |
| | 8H | 26.0 | 26.5 | 26.5 | 27.0 | 27.5 | 26.0 | 26.5 | 26.5 | 27.0 | 27.5 |

Maximum UGR = 27.6

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Results derived from content of manufacturers photometric file.

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : 4DR-TL-L15-8TW-DIM-UNV-SW-OF-WH_2700K_.IES**

**POLAR GRAPH**




Maximum Candela = 311.934  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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