**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : 4DR-TL-L30-8TW-DIM-UNV-SW-OF-WH_3000K_.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-L30-8TW-DIM-UNV-SW-OF-WH_3000K_
[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 | 1738 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 70 |
| Total Luminaire Watts | 24.9 |
| 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 | 62773 | 62773 | 62773 |
| 55 | 53579 | 53579 | 53579 |
| 65 | 45701 | 45701 | 45701 |
| 75 | 37791 | 37791 | 37791 |
| 85 | 23387 | 23387 | 23387 |

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**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : 4DR-TL-L30-8TW-DIM-UNV-SW-OF-WH_3000K_.IES**

**CANDELA TABULATION**

| | 0 |
|---|---|
| **0.0** | 731.867 |
| **0.5** | 731.737 |
| **1.0** | 731.345 |
| **1.5** | 730.954 |
| **2.0** | 730.171 |
| **2.5** | 729.388 |
| **3.0** | 728.345 |
| **3.5** | 727.301 |
| **4.0** | 726.257 |
| **4.5** | 725.214 |
| **5.0** | 724.301 |
| **5.5** | 723.257 |
| **6.0** | 722.213 |
| **6.5** | 721.170 |
| **7.0** | 719.996 |
| **7.5** | 718.691 |
| **8.0** | 717.386 |
| **8.5** | 716.082 |
| **9.0** | 714.647 |
| **9.5** | 713.212 |
| **10.0** | 711.646 |
| **10.5** | 710.081 |
| **11.0** | 708.385 |
| **11.5** | 706.558 |
| **12.0** | 704.732 |
| **12.5** | 702.775 |
| **13.0** | 700.688 |
| **13.5** | 698.470 |
| **14.0** | 696.122 |
| **14.5** | 693.643 |
| **15.0** | 691.034 |
| **15.5** | 688.425 |
| **16.0** | 685.685 |
| **16.5** | 683.076 |
| **17.0** | 680.206 |
| **17.5** | 677.336 |
| **18.0** | 674.466 |
| **18.5** | 671.596 |
| **19.0** | 668.726 |
| **19.5** | 665.856 |
| **20.0** | 662.986 |
| **20.5** | 660.115 |
| **21.0** | 657.115 |
| **21.5** | 653.984 |
| **22.0** | 650.723 |
| **22.5** | 647.070 |
| **23.0** | 643.417 |
| **23.5** | 639.373 |
| **24.0** | 635.329 |
| **24.5** | 631.023 |
| **25.0** | 626.588 |
| **25.5** | 622.152 |
| **26.0** | 617.456 |
| **26.5** | 612.759 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **27.0** | 607.932 |
| **27.5** | 602.975 |
| **28.0** | 598.018 |
| **28.5** | 593.191 |
| **29.0** | 588.364 |
| **29.5** | 583.406 |
| **30.0** | 578.579 |
| **30.5** | 573.492 |
| **31.0** | 568.273 |
| **31.5** | 563.185 |
| **32.0** | 557.967 |
| **32.5** | 552.749 |
| **33.0** | 547.400 |
| **33.5** | 541.921 |
| **34.0** | 536.572 |
| **34.5** | 531.093 |
| **35.0** | 525.614 |
| **35.5** | 520.004 |
| **36.0** | 514.394 |
| **36.5** | 508.654 |
| **37.0** | 502.914 |
| **37.5** | 497.174 |
| **38.0** | 491.303 |
| **38.5** | 485.302 |
| **39.0** | 479.562 |
| **39.5** | 473.561 |
| **40.0** | 467.560 |
| **40.5** | 461.689 |
| **41.0** | 455.558 |
| **41.5** | 449.687 |
| **42.0** | 443.556 |
| **42.5** | 437.555 |
| **43.0** | 431.423 |
| **43.5** | 425.161 |
| **44.0** | 418.899 |
| **44.5** | 412.637 |
| **45.0** | 406.245 |
| **45.5** | 399.983 |
| **46.0** | 393.591 |
| **46.5** | 387.198 |
| **47.0** | 380.806 |
| **47.5** | 374.283 |
| **48.0** | 367.890 |
| **48.5** | 361.368 |
| **49.0** | 354.975 |
| **49.5** | 348.583 |
| **50.0** | 342.190 |
| **50.5** | 335.928 |
| **51.0** | 329.666 |
| **51.5** | 323.404 |
| **52.0** | 317.273 |
| **52.5** | 311.141 |
| **53.0** | 305.140 |
| **53.5** | 299.139 |
| **54.0** | 293.138 |
| **54.5** | 287.268 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **55.0** | 281.267 |
| **55.5** | 275.396 |
| **56.0** | 270.047 |
| **56.5** | 264.307 |
| **57.0** | 258.828 |
| **57.5** | 253.349 |
| **58.0** | 247.869 |
| **58.5** | 242.390 |
| **59.0** | 237.172 |
| **59.5** | 231.954 |
| **60.0** | 226.735 |
| **60.5** | 221.778 |
| **61.0** | 216.690 |
| **61.5** | 211.472 |
| **62.0** | 206.384 |
| **62.5** | 201.296 |
| **63.0** | 196.339 |
| **63.5** | 191.381 |
| **64.0** | 186.424 |
| **64.5** | 181.597 |
| **65.0** | 176.770 |
| **65.5** | 171.943 |
| **66.0** | 167.116 |
| **66.5** | 162.420 |
| **67.0** | 157.854 |
| **67.5** | 153.288 |
| **68.0** | 148.722 |
| **68.5** | 144.286 |
| **69.0** | 139.851 |
| **69.5** | 135.415 |
| **70.0** | 130.979 |
| **70.5** | 126.674 |
| **71.0** | 122.395 |
| **71.5** | 118.142 |
| **72.0** | 113.942 |
| **72.5** | 109.806 |
| **73.0** | 105.684 |
| **73.5** | 101.600 |
| **74.0** | 97.556 |
| **74.5** | 93.512 |
| **75.0** | 89.520 |
| **75.5** | 85.580 |
| **76.0** | 81.640 |
| **76.5** | 77.740 |
| **77.0** | 73.891 |
| **77.5** | 70.056 |
| **78.0** | 66.272 |
| **78.5** | 62.554 |
| **79.0** | 58.862 |
| **79.5** | 55.210 |
| **80.0** | 51.648 |
| **80.5** | 48.139 |
| **81.0** | 44.669 |
| **81.5** | 41.225 |
| **82.0** | 37.846 |
| **82.5** | 34.519 |

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**CANDELA TABULATION - (Cont.)**

| | |
|---|---|
| **83.0** | 31.232 |
| **83.5** | 27.983 |
| **84.0** | 24.813 |
| **84.5** | 21.695 |
| **85.0** | 18.655 |
| **85.5** | 15.746 |
| **86.0** | 13.033 |
| **86.5** | 10.658 |
| **87.0** | 8.493 |
| **87.5** | 6.549 |
| **88.0** | 4.879 |
| **88.5** | 3.561 |
| **89.0** | 2.479 |
| **89.5** | 1.605 |
| **90.0** | 0.991 |
| **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-L30-8TW-DIM-UNV-SW-OF-WH_3000K_.IES**

**ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---|---|---|---|
| 0-20 | 263.51 | N.A. | 15.20 |
| 0-30 | 551.37 | N.A. | 31.70 |
| 0-40 | 879.54 | N.A. | 50.60 |
| 0-60 | 1444.75 | N.A. | 83.10 |
| 0-80 | 1715.28 | N.A. | 98.70 |
| 0-90 | 1738.34 | N.A. | 100.00 |
| 10-90 | 1669.59 | N.A. | 96.00 |
| 20-40 | 616.03 | N.A. | 35.40 |
| 20-50 | 928.89 | N.A. | 53.40 |
| 40-70 | 740.75 | N.A. | 42.60 |
| 60-80 | 270.53 | N.A. | 15.60 |
| 70-80 | 94.99 | N.A. | 5.50 |
| 80-90 | 23.06 | N.A. | 1.30 |
| 90-110 | 0.03 | N.A. | 0.00 |
| 90-120 | 0.03 | N.A. | 0.00 |
| 90-130 | 0.03 | N.A. | 0.00 |
| 90-150 | 0.03 | N.A. | 0.00 |
| 90-180 | 0.03 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 1738.36 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone | Lumens |
|---|---|
| 0-10 | 68.75 |
| 10-20 | 194.76 |
| 20-30 | 287.86 |
| 30-40 | 328.18 |
| 40-50 | 312.85 |
| 50-60 | 252.35 |
| 60-70 | 175.54 |
| 70-80 | 94.99 |
| 80-90 | 23.06 |
| 90-100 | 0.03 |
| 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 | 61 | 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 | 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**

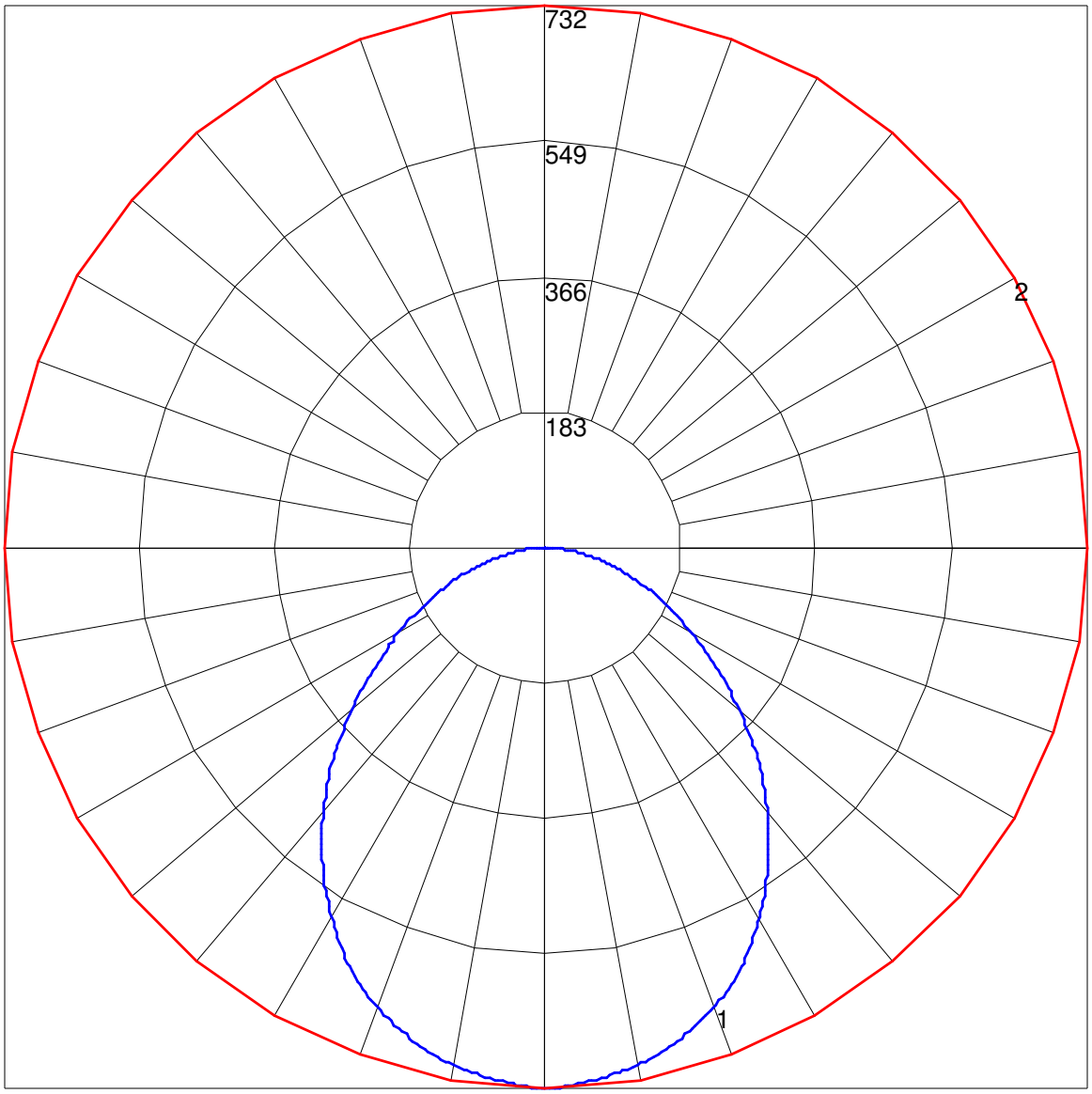
| Reflectances | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ceiling Cavity | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| Floor Cavity | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room Size | | UGR Viewed Crosswise | | | | | UGR Viewed Endwise | | | | |
| X=2H | Y=2H | 24.6 | 26.2 | 25.0 | 26.5 | 26.8 | 24.6 | 26.2 | 25.0 | 26.5 | 26.8 |
| | 3H | 26.2 | 27.6 | 26.6 | 28.0 | 28.3 | 26.2 | 27.6 | 26.6 | 28.0 | 28.3 |
| | 4H | 26.8 | 28.1 | 27.2 | 28.5 | 28.8 | 26.8 | 28.1 | 27.2 | 28.5 | 28.8 |
| | 6H | 27.2 | 28.4 | 27.6 | 28.8 | 29.2 | 27.2 | 28.4 | 27.6 | 28.8 | 29.2 |
| | 8H | 27.3 | 28.5 | 27.7 | 28.9 | 29.3 | 27.3 | 28.5 | 27.7 | 28.9 | 29.3 |
| | 12H | 27.4 | 28.5 | 27.8 | 28.9 | 29.3 | 27.4 | 28.5 | 27.8 | 28.9 | 29.3 |
| 4H | 2H | 25.2 | 26.5 | 25.6 | 26.9 | 27.2 | 25.2 | 26.5 | 25.6 | 26.9 | 27.2 |
| | 3H | 27.0 | 28.1 | 27.4 | 28.5 | 28.9 | 27.0 | 28.1 | 27.4 | 28.5 | 28.9 |
| | 4H | 27.7 | 28.7 | 28.1 | 29.1 | 29.5 | 27.7 | 28.7 | 28.1 | 29.1 | 29.5 |
| | 6H | 28.2 | 29.1 | 28.6 | 29.5 | 30.0 | 28.2 | 29.1 | 28.6 | 29.5 | 30.0 |
| | 8H | 28.3 | 29.2 | 28.8 | 29.6 | 30.1 | 28.3 | 29.2 | 28.8 | 29.6 | 30.1 |
| | 12H | 28.4 | 29.2 | 28.9 | 29.6 | 30.1 | 28.4 | 29.2 | 28.9 | 29.6 | 30.1 |
| 8H | 4H | 27.9 | 28.7 | 28.4 | 29.2 | 29.7 | 27.9 | 28.7 | 28.4 | 29.2 | 29.7 |
| | 6H | 28.5 | 29.2 | 29.0 | 29.7 | 30.2 | 28.5 | 29.2 | 29.0 | 29.7 | 30.2 |
| | 8H | 28.8 | 29.4 | 29.3 | 29.9 | 30.4 | 28.8 | 29.4 | 29.3 | 29.9 | 30.4 |
| | 12H | 28.9 | 29.4 | 29.4 | 29.9 | 30.5 | 28.9 | 29.4 | 29.4 | 29.9 | 30.5 |
| 12H | 4H | 28.0 | 28.7 | 28.4 | 29.2 | 29.6 | 28.0 | 28.7 | 28.4 | 29.2 | 29.6 |
| | 6H | 28.6 | 29.2 | 29.1 | 29.7 | 30.2 | 28.6 | 29.2 | 29.1 | 29.7 | 30.2 |
| | 8H | 28.8 | 29.4 | 29.4 | 29.9 | 30.4 | 28.8 | 29.4 | 29.4 | 29.9 | 30.4 |

Maximum UGR = 30.5

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Results derived from content of manufacturers photometric file.

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : 4DR-TL-L30-8TW-DIM-UNV-SW-OF-WH_3000K_.IES**

**POLAR GRAPH**




Maximum Candela = 731.867  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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