



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V4DR-P17-8TW-POE-RM-OF-WH_4000K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12316380.14

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 6 OCT 2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] V4DR-P17-8TW-PoE-RM-OF-WH 4000k

[LUMINAIRE] Black formed aluminum housing, white reflector, clear plas

[MORE] tic optic, clear glass patterned lens enclosure

[LAMP] One white LED

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2122 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 94 |
| Total Luminaire Watts | 22.6 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.52 |
| Spacing Criterion (90-270) | 0.52 |
| Spacing Criterion (Diagonal) | 0.52 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.38 ft (Diameter) |
| Luminous Width (90-270) | 0.38 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 | 12170 | 12170 | 12170 |
| 55 | 8465 | 8465 | 8465 |
| 65 | 6044 | 6044 | 6044 |
| 75 | 4045 | 4045 | 4045 |
| 85 | 3300 | 3300 | 3300 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 6116.039 |
| 0.5 | 6111.313 |
| 1.0 | 6097.133 |
| 1.5 | 6074.683 |
| 2.0 | 6043.961 |
| 2.5 | 6004.967 |
| 3.0 | 5958.884 |
| 3.5 | 5904.530 |
| 4.0 | 5841.905 |
| 4.5 | 5774.552 |
| 5.0 | 5700.111 |
| 5.5 | 5617.398 |
| 6.0 | 5528.777 |
| 6.5 | 5434.247 |
| 7.0 | 5332.628 |
| 7.5 | 5223.920 |
| 8.0 | 5110.485 |
| 8.5 | 4989.960 |
| 9.0 | 4865.891 |
| 9.5 | 4737.095 |
| 10.0 | 4603.572 |
| 10.5 | 4466.505 |
| 11.0 | 4325.892 |
| 11.5 | 4182.917 |
| 12.0 | 4037.578 |
| 12.5 | 3893.421 |
| 13.0 | 3749.264 |
| 13.5 | 3603.926 |
| 14.0 | 3457.405 |
| 14.5 | 3310.885 |
| 15.0 | 3166.728 |
| 15.5 | 3023.753 |
| 16.0 | 2880.777 |
| 16.5 | 2741.347 |
| 17.0 | 2603.098 |
| 17.5 | 2467.212 |
| 18.0 | 2333.690 |
| 18.5 | 2203.712 |
| 19.0 | 2079.642 |
| 19.5 | 1957.936 |
| 20.0 | 1839.775 |
| 20.5 | 1727.521 |
| 21.0 | 1618.813 |
| 21.5 | 1514.830 |
| 22.0 | 1416.756 |
| 22.5 | 1323.409 |
| 23.0 | 1235.969 |
| 23.5 | 1152.311 |
| 24.0 | 1073.143 |
| 24.5 | 998.583 |
| 25.0 | 928.868 |
| 25.5 | 863.997 |
| 26.0 | 803.498 |
| 26.5 | 746.781 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 694.081 |
| 27.5 | 645.280 |
| 28.0 | 599.906 |
| 28.5 | 557.604 |
| 29.0 | 518.847 |
| 29.5 | 482.690 |
| 30.0 | 449.250 |
| 30.5 | 418.528 |
| 31.0 | 390.169 |
| 31.5 | 363.937 |
| 32.0 | 339.714 |
| 32.5 | 317.500 |
| 33.0 | 296.940 |
| 33.5 | 277.798 |
| 34.0 | 260.310 |
| 34.5 | 244.003 |
| 35.0 | 228.997 |
| 35.5 | 215.172 |
| 36.0 | 202.292 |
| 36.5 | 190.476 |
| 37.0 | 179.487 |
| 37.5 | 169.562 |
| 38.0 | 160.345 |
| 38.5 | 152.074 |
| 39.0 | 144.393 |
| 39.5 | 137.422 |
| 40.0 | 131.159 |
| 40.5 | 125.251 |
| 41.0 | 119.934 |
| 41.5 | 114.971 |
| 42.0 | 110.363 |
| 42.5 | 106.109 |
| 43.0 | 102.092 |
| 43.5 | 98.310 |
| 44.0 | 94.766 |
| 44.5 | 91.457 |
| 45.0 | 88.385 |
| 45.5 | 85.549 |
| 46.0 | 82.831 |
| 46.5 | 80.232 |
| 47.0 | 77.750 |
| 47.5 | 75.505 |
| 48.0 | 73.378 |
| 48.5 | 71.251 |
| 49.0 | 69.243 |
| 49.5 | 67.352 |
| 50.0 | 65.580 |
| 50.5 | 63.807 |
| 51.0 | 62.153 |
| 51.5 | 60.381 |
| 52.0 | 58.844 |
| 52.5 | 57.190 |
| 53.0 | 55.772 |
| 53.5 | 54.236 |
| 54.0 | 52.700 |
| 54.5 | 51.282 |

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CANDELA TABULATION - (Cont.)

| | |
|------|--------|
| 55.0 | 49.864 |
| 55.5 | 48.446 |
| 56.0 | 47.146 |
| 56.5 | 45.847 |
| 57.0 | 44.547 |
| 57.5 | 43.247 |
| 58.0 | 41.947 |
| 58.5 | 40.766 |
| 59.0 | 39.584 |
| 59.5 | 38.402 |
| 60.0 | 37.221 |
| 60.5 | 36.039 |
| 61.0 | 34.858 |
| 61.5 | 33.794 |
| 62.0 | 32.613 |
| 62.5 | 31.549 |
| 63.0 | 30.368 |
| 63.5 | 29.304 |
| 64.0 | 28.241 |
| 64.5 | 27.177 |
| 65.0 | 26.232 |
| 65.5 | 25.168 |
| 66.0 | 24.223 |
| 66.5 | 23.160 |
| 67.0 | 22.214 |
| 67.5 | 21.269 |
| 68.0 | 20.324 |
| 68.5 | 19.497 |
| 69.0 | 18.551 |
| 69.5 | 17.724 |
| 70.0 | 16.897 |
| 70.5 | 16.188 |
| 71.0 | 15.479 |
| 71.5 | 14.770 |
| 72.0 | 14.061 |
| 72.5 | 13.470 |
| 73.0 | 12.880 |
| 73.5 | 12.289 |
| 74.0 | 11.816 |
| 74.5 | 11.225 |
| 75.0 | 10.753 |
| 75.5 | 10.280 |
| 76.0 | 9.807 |
| 76.5 | 9.453 |
| 77.0 | 8.980 |
| 77.5 | 8.508 |
| 78.0 | 8.153 |
| 78.5 | 7.680 |
| 79.0 | 7.326 |
| 79.5 | 6.972 |
| 80.0 | 6.499 |
| 80.5 | 6.144 |
| 81.0 | 5.790 |
| 81.5 | 5.435 |
| 82.0 | 4.963 |
| 82.5 | 4.608 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 4.254 |
| 83.5 | 3.899 |
| 84.0 | 3.545 |
| 84.5 | 3.190 |
| 85.0 | 2.954 |
| 85.5 | 2.600 |
| 86.0 | 2.245 |
| 86.5 | 1.891 |
| 87.0 | 1.654 |
| 87.5 | 1.418 |
| 88.0 | 1.182 |
| 88.5 | 0.945 |
| 89.0 | 0.827 |
| 89.5 | 0.591 |
| 90.0 | 0.473 |
| 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 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : V4DR-P17-8TW-POE-RM-OF-WH_4000K.IES

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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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1368.56 | N.A. | 64.50 |
| 0-30 | 1812.71 | N.A. | 85.40 |
| 0-40 | 1965.1 | N.A. | 92.60 |
| 0-60 | 2080.31 | N.A. | 98.10 |
| 0-80 | 2118.14 | N.A. | 99.80 |
| 0-90 | 2121.49 | N.A. | 100.00 |
| 10-90 | 1612.69 | N.A. | 76.00 |
| 20-40 | 596.54 | N.A. | 28.10 |
| 20-50 | 666.81 | N.A. | 31.40 |
| 40-70 | 141.34 | N.A. | 6.70 |
| 60-80 | 37.83 | N.A. | 1.80 |
| 70-80 | 11.69 | N.A. | 0.60 |
| 80-90 | 3.35 | N.A. | 0.20 |
| 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 | 2121.5 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 508.80 |
| 10-20 | 859.76 |
| 20-30 | 444.14 |
| 30-40 | 152.40 |
| 40-50 | 70.27 |
| 50-60 | 44.94 |
| 60-70 | 26.14 |
| 70-80 | 11.69 |
| 80-90 | 3.35 |
| 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 | 159 | 159 | 159 | 159 | 155 | 155 | 155 | 155 | 148 | 148 | 148 | 142 | 142 | 142 | 136 | 136 | 136 | 134 |
| 1 | 152 | 149 | 146 | 143 | 149 | 146 | 144 | 141 | 141 | 139 | 137 | 136 | 134 | 133 | 131 | 130 | 129 | 127 |
| 2 | 146 | 140 | 136 | 132 | 143 | 138 | 134 | 130 | 134 | 130 | 127 | 130 | 127 | 125 | 126 | 124 | 122 | 120 |
| 3 | 140 | 133 | 127 | 122 | 138 | 131 | 126 | 121 | 127 | 123 | 119 | 124 | 121 | 118 | 121 | 118 | 116 | 114 |
| 4 | 135 | 126 | 120 | 115 | 132 | 124 | 119 | 114 | 122 | 117 | 113 | 119 | 115 | 111 | 117 | 113 | 110 | 108 |
| 5 | 129 | 120 | 113 | 108 | 127 | 119 | 113 | 108 | 116 | 111 | 107 | 114 | 110 | 106 | 112 | 108 | 105 | 103 |
| 6 | 125 | 115 | 108 | 103 | 123 | 114 | 107 | 103 | 112 | 106 | 102 | 110 | 105 | 101 | 108 | 104 | 101 | 99 |
| 7 | 120 | 110 | 103 | 98 | 118 | 109 | 103 | 98 | 107 | 102 | 98 | 106 | 101 | 97 | 104 | 100 | 97 | 95 |
| 8 | 116 | 105 | 99 | 94 | 114 | 105 | 98 | 94 | 103 | 98 | 94 | 102 | 97 | 93 | 101 | 96 | 93 | 91 |
| 9 | 112 | 101 | 95 | 90 | 111 | 101 | 94 | 90 | 99 | 94 | 90 | 98 | 93 | 90 | 97 | 93 | 89 | 88 |
| 10 | 108 | 98 | 91 | 87 | 107 | 97 | 91 | 87 | 96 | 90 | 87 | 95 | 90 | 86 | 94 | 90 | 86 | 85 |

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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

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 11.0 | 12.0 | 11.4 | 12.3 | 12.6 | 11.0 | 12.0 | 11.4 | 12.3 | 12.6 |
| | 3H | 12.0 | 12.9 | 12.4 | 13.2 | 13.6 | 12.0 | 12.9 | 12.4 | 13.2 | 13.6 |
| | 4H | 12.3 | 13.1 | 12.7 | 13.4 | 13.8 | 12.3 | 13.1 | 12.7 | 13.4 | 13.8 |
| | 6H | 12.5 | 13.2 | 12.9 | 13.6 | 14.0 | 12.5 | 13.2 | 12.9 | 13.6 | 14.0 |
| | 8H | 12.5 | 13.2 | 13.0 | 13.6 | 14.0 | 12.5 | 13.2 | 13.0 | 13.6 | 14.0 |
| | 12H | 12.6 | 13.2 | 13.0 | 13.6 | 14.0 | 12.6 | 13.2 | 13.0 | 13.6 | 14.0 |

UGR Viewed Endwise

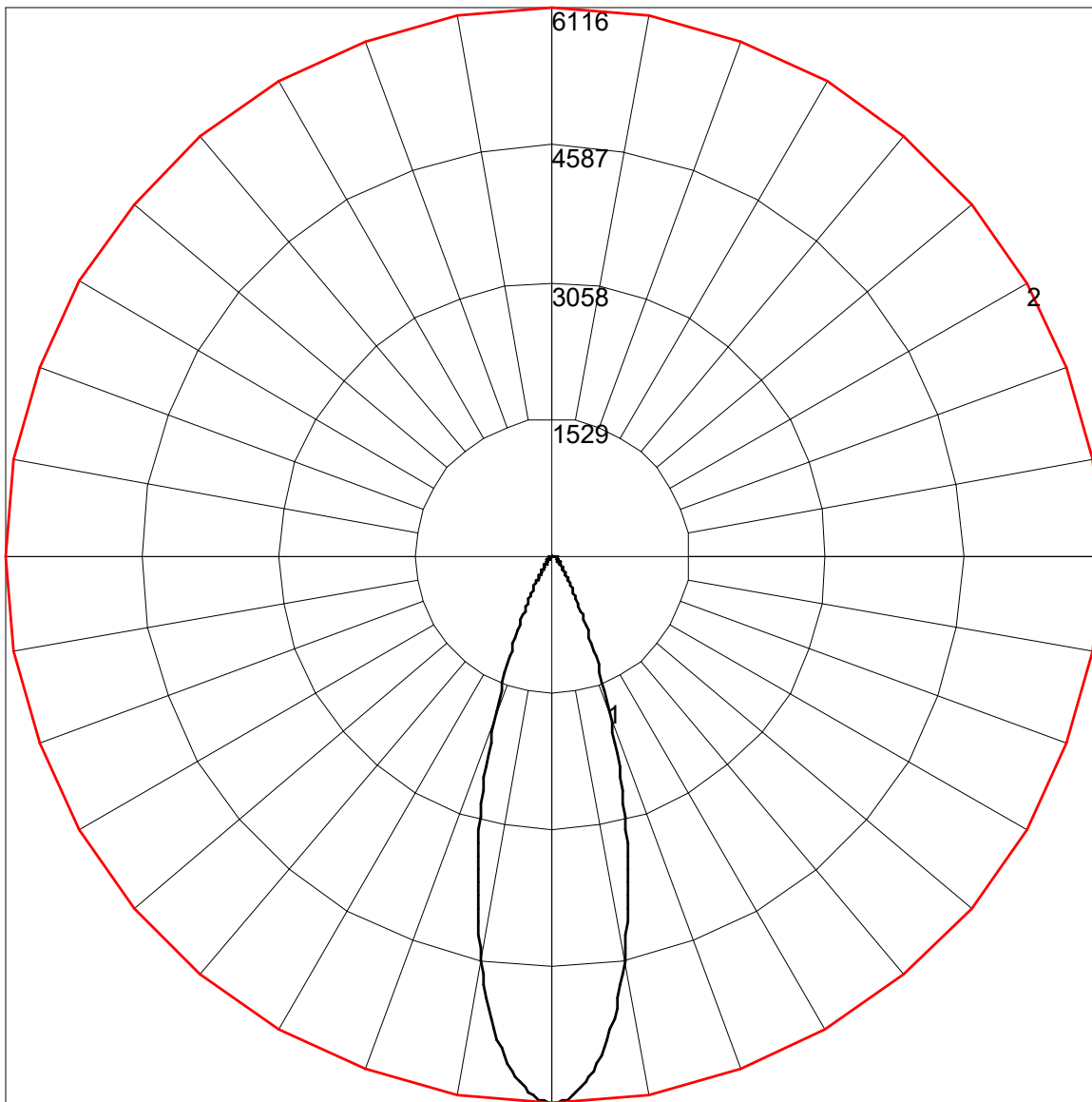
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 11.3 | 12.1 | 11.7 | 12.5 | 12.8 | 11.3 | 12.1 | 11.7 | 12.5 | 12.8 |
| | 3H | 12.4 | 13.1 | 12.8 | 13.5 | 13.9 | 12.4 | 13.1 | 12.8 | 13.5 | 13.9 |
| | 4H | 12.8 | 13.4 | 13.2 | 13.8 | 14.2 | 12.8 | 13.4 | 13.2 | 13.8 | 14.2 |
| | 6H | 13.1 | 13.6 | 13.6 | 14.1 | 14.5 | 13.1 | 13.6 | 13.6 | 14.1 | 14.5 |
| | 8H | 13.2 | 13.7 | 13.7 | 14.1 | 14.6 | 13.2 | 13.7 | 13.7 | 14.1 | 14.6 |
| | 12H | 13.2 | 13.6 | 13.7 | 14.1 | 14.6 | 13.2 | 13.6 | 13.7 | 14.1 | 14.6 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 12.9 | 13.3 | 13.3 | 13.8 | 14.3 | 12.9 | 13.3 | 13.3 | 13.8 | 14.3 |
| | 6H | 13.3 | 13.6 | 13.8 | 14.1 | 14.6 | 13.3 | 13.6 | 13.8 | 14.1 | 14.6 |
| | 8H | 13.4 | 13.8 | 14.0 | 14.3 | 14.8 | 13.4 | 13.8 | 14.0 | 14.3 | 14.8 |
| | 12H | 13.6 | 13.8 | 14.1 | 14.3 | 14.9 | 13.6 | 13.8 | 14.1 | 14.3 | 14.9 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 12.8 | 13.2 | 13.3 | 13.7 | 14.2 | 12.8 | 13.2 | 13.3 | 13.7 | 14.2 |
| | 6H | 13.3 | 13.6 | 13.8 | 14.1 | 14.6 | 13.3 | 13.6 | 13.8 | 14.1 | 14.6 |
| | 8H | 13.5 | 13.7 | 14.0 | 14.2 | 14.8 | 13.5 | 13.7 | 14.0 | 14.2 | 14.8 |

Maximum UGR = 14.9

POLAR GRAPH



Maximum Candela = 6116.039 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)