



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CR-TL-L20-835-XXX-DIM-UNV-RW-WH-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12326812.12

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 1-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 8CR-TL-L20-835-xxx-DIM-UNV-RW-WH-xx

[LUMINAIRE] 8" DIA. SURFACE CYLINDER

[LAMP] One white LED

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight

[_SEARCH_MOUNTING] Surface

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1445 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 76 |
| Total Luminaire Watts | 19.085 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.04 |
| Spacing Criterion (90-270) | 1.04 |
| Spacing Criterion (Diagonal) | 0.94 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.48 ft (Diameter) |
| Luminous Width (90-270) | 0.48 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 | 19512 | 19512 | 19512 |
| 55 | 16272 | 16272 | 16272 |
| 65 | 11480 | 11480 | 11480 |
| 75 | 7032 | 7032 | 7032 |
| 85 | 5546 | 5546 | 5546 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 1069.0 |
| 0.5 | 1068.0 |
| 1.0 | 1067.0 |
| 1.5 | 1066.0 |
| 2.0 | 1064.0 |
| 2.5 | 1061.0 |
| 3.0 | 1058.0 |
| 3.5 | 1054.0 |
| 4.0 | 1050.0 |
| 4.5 | 1047.0 |
| 5.0 | 1043.0 |
| 5.5 | 1039.0 |
| 6.0 | 1035.0 |
| 6.5 | 1031.0 |
| 7.0 | 1027.0 |
| 7.5 | 1023.0 |
| 8.0 | 1018.0 |
| 8.5 | 1014.0 |
| 9.0 | 1010.0 |
| 9.5 | 1005.0 |
| 10.0 | 1001.0 |
| 10.5 | 996.1 |
| 11.0 | 991.3 |
| 11.5 | 986.5 |
| 12.0 | 981.7 |
| 12.5 | 977.0 |
| 13.0 | 972.2 |
| 13.5 | 967.2 |
| 14.0 | 962.3 |
| 14.5 | 957.5 |
| 15.0 | 953.0 |
| 15.5 | 948.4 |
| 16.0 | 943.9 |
| 16.5 | 939.5 |
| 17.0 | 935.4 |
| 17.5 | 931.3 |
| 18.0 | 927.3 |
| 18.5 | 923.5 |
| 19.0 | 919.7 |
| 19.5 | 915.8 |
| 20.0 | 911.8 |
| 20.5 | 907.5 |
| 21.0 | 902.6 |
| 21.5 | 897.0 |
| 22.0 | 890.7 |
| 22.5 | 883.7 |
| 23.0 | 876.1 |
| 23.5 | 867.5 |
| 24.0 | 858.1 |
| 24.5 | 847.8 |
| 25.0 | 836.4 |
| 25.5 | 824.1 |
| 26.0 | 810.4 |
| 26.5 | 795.4 |

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PHOTOMETRIC FILENAME : 8CR-TL-L20-835-XXX-DIM-UNV-RW-WH-XX_.IES

CANDELA TABULATION - (Cont.)

| | |
|------|-------|
| 27.0 | 779.4 |
| 27.5 | 762.0 |
| 28.0 | 743.5 |
| 28.5 | 723.4 |
| 29.0 | 702.2 |
| 29.5 | 679.2 |
| 30.0 | 654.8 |
| 30.5 | 629.0 |
| 31.0 | 602.2 |
| 31.5 | 574.8 |
| 32.0 | 546.9 |
| 32.5 | 519.2 |
| 33.0 | 491.8 |
| 33.5 | 465.3 |
| 34.0 | 439.9 |
| 34.5 | 416.0 |
| 35.0 | 394.2 |
| 35.5 | 374.2 |
| 36.0 | 356.6 |
| 36.5 | 341.0 |
| 37.0 | 327.3 |
| 37.5 | 315.6 |
| 38.0 | 305.3 |
| 38.5 | 296.2 |
| 39.0 | 288.3 |
| 39.5 | 281.3 |
| 40.0 | 274.9 |
| 40.5 | 269.1 |
| 41.0 | 263.7 |
| 41.5 | 258.8 |
| 42.0 | 254.3 |
| 42.5 | 250.0 |
| 43.0 | 245.9 |
| 43.5 | 242.0 |
| 44.0 | 238.3 |
| 44.5 | 234.8 |
| 45.0 | 231.2 |
| 45.5 | 227.8 |
| 46.0 | 224.3 |
| 46.5 | 220.9 |
| 47.0 | 217.4 |
| 47.5 | 213.9 |
| 48.0 | 210.3 |
| 48.5 | 206.7 |
| 49.0 | 203.3 |
| 49.5 | 199.8 |
| 50.0 | 196.1 |
| 50.5 | 192.3 |
| 51.0 | 188.4 |
| 51.5 | 184.5 |
| 52.0 | 180.6 |
| 52.5 | 176.6 |
| 53.0 | 172.7 |
| 53.5 | 168.9 |
| 54.0 | 164.7 |
| 54.5 | 160.5 |

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CANDELA TABULATION - (Cont.)

| | |
|------|-------|
| 55.0 | 156.4 |
| 55.5 | 152.2 |
| 56.0 | 148.1 |
| 56.5 | 144.0 |
| 57.0 | 139.9 |
| 57.5 | 135.8 |
| 58.0 | 131.9 |
| 58.5 | 127.9 |
| 59.0 | 124.0 |
| 59.5 | 120.2 |
| 60.0 | 116.4 |
| 60.5 | 112.6 |
| 61.0 | 108.9 |
| 61.5 | 105.3 |
| 62.0 | 101.7 |
| 62.5 | 98.2 |
| 63.0 | 94.7 |
| 63.5 | 91.2 |
| 64.0 | 87.9 |
| 64.5 | 84.5 |
| 65.0 | 81.3 |
| 65.5 | 78.0 |
| 66.0 | 74.9 |
| 66.5 | 71.8 |
| 67.0 | 68.8 |
| 67.5 | 65.8 |
| 68.0 | 62.9 |
| 68.5 | 60.0 |
| 69.0 | 57.3 |
| 69.5 | 54.5 |
| 70.0 | 51.9 |
| 70.5 | 49.3 |
| 71.0 | 46.8 |
| 71.5 | 44.4 |
| 72.0 | 42.0 |
| 72.5 | 39.8 |
| 73.0 | 37.7 |
| 73.5 | 35.8 |
| 74.0 | 33.9 |
| 74.5 | 32.2 |
| 75.0 | 30.5 |
| 75.5 | 29.0 |
| 76.0 | 27.5 |
| 76.5 | 26.2 |
| 77.0 | 25.0 |
| 77.5 | 23.8 |
| 78.0 | 22.6 |
| 78.5 | 21.4 |
| 79.0 | 20.3 |
| 79.5 | 19.2 |
| 80.0 | 18.1 |
| 80.5 | 17.0 |
| 81.0 | 15.9 |
| 81.5 | 14.9 |
| 82.0 | 13.8 |
| 82.5 | 12.8 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|------|
| 83.0 | 11.8 |
| 83.5 | 10.9 |
| 84.0 | 9.9 |
| 84.5 | 9.0 |
| 85.0 | 8.1 |
| 85.5 | 7.2 |
| 86.0 | 6.3 |
| 86.5 | 5.4 |
| 87.0 | 4.6 |
| 87.5 | 3.7 |
| 88.0 | 3.0 |
| 88.5 | 2.4 |
| 89.0 | 1.9 |
| 89.5 | 1.4 |
| 90.0 | 1.0 |
| 90.5 | 0.0 |
| 91.0 | 0.0 |
| 91.5 | 0.0 |
| 92.0 | 0.0 |
| 92.5 | 0.0 |
| 93.0 | 0.0 |
| 93.5 | 0.0 |
| 94.0 | 0.0 |
| 94.5 | 0.0 |
| 95.0 | 0.0 |
| 95.5 | 0.0 |
| 96.0 | 0.0 |
| 96.5 | 0.0 |
| 97.0 | 0.0 |
| 97.5 | 0.0 |
| 98.0 | 0.0 |
| 98.5 | 0.0 |
| 99.0 | 0.0 |
| 99.5 | 0.0 |
| 100.0 | 0.0 |
| 100.5 | 0.0 |
| 101.0 | 0.0 |
| 101.5 | 0.0 |
| 102.0 | 0.0 |
| 102.5 | 0.0 |
| 103.0 | 0.0 |
| 103.5 | 0.0 |
| 104.0 | 0.0 |
| 104.5 | 0.0 |
| 105.0 | 0.0 |
| 105.5 | 0.0 |
| 106.0 | 0.0 |
| 106.5 | 0.0 |
| 107.0 | 0.0 |
| 107.5 | 0.0 |
| 108.0 | 0.0 |
| 108.5 | 0.0 |
| 109.0 | 0.0 |
| 109.5 | 0.0 |
| 110.0 | 0.0 |
| 110.5 | 0.0 |

CANDELA TABULATION - (Cont.)

| | |
|-------|-----|
| 111.0 | 0.0 |
| 111.5 | 0.0 |
| 112.0 | 0.0 |
| 112.5 | 0.0 |
| 113.0 | 0.0 |
| 113.5 | 0.0 |
| 114.0 | 0.0 |
| 114.5 | 0.0 |
| 115.0 | 0.0 |
| 115.5 | 0.0 |
| 116.0 | 0.0 |
| 116.5 | 0.0 |
| 117.0 | 0.0 |
| 117.5 | 0.0 |
| 118.0 | 0.0 |
| 118.5 | 0.0 |
| 119.0 | 0.0 |
| 119.5 | 0.0 |
| 120.0 | 0.0 |
| 120.5 | 0.0 |
| 121.0 | 0.0 |
| 121.5 | 0.0 |
| 122.0 | 0.0 |
| 122.5 | 0.0 |
| 123.0 | 0.0 |
| 123.5 | 0.0 |
| 124.0 | 0.0 |
| 124.5 | 0.0 |
| 125.0 | 0.0 |
| 125.5 | 0.0 |
| 126.0 | 0.0 |
| 126.5 | 0.0 |
| 127.0 | 0.0 |
| 127.5 | 0.0 |
| 128.0 | 0.0 |
| 128.5 | 0.0 |
| 129.0 | 0.0 |
| 129.5 | 0.0 |
| 130.0 | 0.0 |
| 130.5 | 0.0 |
| 131.0 | 0.0 |
| 131.5 | 0.0 |
| 132.0 | 0.0 |
| 132.5 | 0.0 |
| 133.0 | 0.0 |
| 133.5 | 0.0 |
| 134.0 | 0.0 |
| 134.5 | 0.0 |
| 135.0 | 0.0 |
| 135.5 | 0.0 |
| 136.0 | 0.0 |
| 136.5 | 0.0 |
| 137.0 | 0.0 |
| 137.5 | 0.0 |
| 138.0 | 0.0 |
| 138.5 | 0.0 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-----|
| 139.0 | 0.0 |
| 139.5 | 0.0 |
| 140.0 | 0.0 |
| 140.5 | 0.0 |
| 141.0 | 0.0 |
| 141.5 | 0.0 |
| 142.0 | 0.0 |
| 142.5 | 0.0 |
| 143.0 | 0.0 |
| 143.5 | 0.0 |
| 144.0 | 0.0 |
| 144.5 | 0.0 |
| 145.0 | 0.0 |
| 145.5 | 0.0 |
| 146.0 | 0.0 |
| 146.5 | 0.0 |
| 147.0 | 0.0 |
| 147.5 | 0.0 |
| 148.0 | 0.0 |
| 148.5 | 0.0 |
| 149.0 | 0.0 |
| 149.5 | 0.0 |
| 150.0 | 0.0 |
| 150.5 | 0.0 |
| 151.0 | 0.0 |
| 151.5 | 0.0 |
| 152.0 | 0.0 |
| 152.5 | 0.0 |
| 153.0 | 0.0 |
| 153.5 | 0.0 |
| 154.0 | 0.0 |
| 154.5 | 0.0 |
| 155.0 | 0.0 |
| 155.5 | 0.0 |
| 156.0 | 0.0 |
| 156.5 | 0.0 |
| 157.0 | 0.0 |
| 157.5 | 0.0 |
| 158.0 | 0.0 |
| 158.5 | 0.0 |
| 159.0 | 0.0 |
| 159.5 | 0.0 |
| 160.0 | 0.0 |
| 160.5 | 0.0 |
| 161.0 | 0.0 |
| 161.5 | 0.0 |
| 162.0 | 0.0 |
| 162.5 | 0.0 |
| 163.0 | 0.0 |
| 163.5 | 0.0 |
| 164.0 | 0.0 |
| 164.5 | 0.0 |
| 165.0 | 0.0 |
| 165.5 | 0.0 |
| 166.0 | 0.0 |
| 166.5 | 0.0 |

CANDELA TABULATION - (Cont.)

| | |
|-------|-----|
| 167.0 | 0.0 |
| 167.5 | 0.0 |
| 168.0 | 0.0 |
| 168.5 | 0.0 |
| 169.0 | 0.0 |
| 169.5 | 0.0 |
| 170.0 | 0.0 |
| 170.5 | 0.0 |
| 171.0 | 0.0 |
| 171.5 | 0.0 |
| 172.0 | 0.0 |
| 172.5 | 0.0 |
| 173.0 | 0.0 |
| 173.5 | 0.0 |
| 174.0 | 0.0 |
| 174.5 | 0.0 |
| 175.0 | 0.0 |
| 175.5 | 0.0 |
| 176.0 | 0.0 |
| 176.5 | 0.0 |
| 177.0 | 0.0 |
| 177.5 | 0.0 |
| 178.0 | 0.0 |
| 178.5 | 0.0 |
| 179.0 | 0.0 |
| 179.5 | 0.0 |
| 180.0 | 0.0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 367.33 | N.A. | 25.40 |
| 0-30 | 742.60 | N.A. | 51.40 |
| 0-40 | 1002.24 | N.A. | 69.40 |
| 0-60 | 1320.85 | N.A. | 91.40 |
| 0-80 | 1435.88 | N.A. | 99.40 |
| 0-90 | 1445.1 | N.A. | 100.00 |
| 10-90 | 1346.9 | N.A. | 93.20 |
| 20-40 | 634.91 | N.A. | 43.90 |
| 20-50 | 814.04 | N.A. | 56.30 |
| 40-70 | 399.80 | N.A. | 27.70 |
| 60-80 | 115.02 | N.A. | 8.00 |
| 70-80 | 33.84 | N.A. | 2.30 |
| 80-90 | 9.22 | N.A. | 0.60 |
| 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 | 1445.13 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 98.20 |
| 10-20 | 269.13 |
| 20-30 | 375.27 |
| 30-40 | 259.64 |
| 40-50 | 179.13 |
| 50-60 | 139.48 |
| 60-70 | 81.18 |
| 70-80 | 33.84 |
| 80-90 | 9.22 |
| 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 | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 |
| 2 | 104 | 98 | 92 | 88 | 102 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 84 | 81 | 79 |
| 3 | 97 | 89 | 82 | 77 | 95 | 87 | 81 | 76 | 84 | 79 | 75 | 82 | 77 | 74 | 79 | 76 | 73 | 71 |
| 4 | 90 | 81 | 74 | 68 | 88 | 80 | 73 | 68 | 77 | 72 | 67 | 75 | 70 | 66 | 73 | 69 | 66 | 64 |
| 5 | 85 | 74 | 67 | 62 | 83 | 73 | 66 | 61 | 71 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 59 | 58 |
| 6 | 79 | 68 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 |
| 7 | 75 | 63 | 56 | 51 | 73 | 63 | 56 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | 59 | 54 | 50 | 48 |
| 8 | 70 | 59 | 52 | 47 | 69 | 58 | 51 | 47 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 44 |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 51 | 46 | 43 | 41 |
| 10 | 63 | 51 | 45 | 40 | 62 | 51 | 44 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 48 | 43 | 40 | 38 |

IES INDOOR REPORT

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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

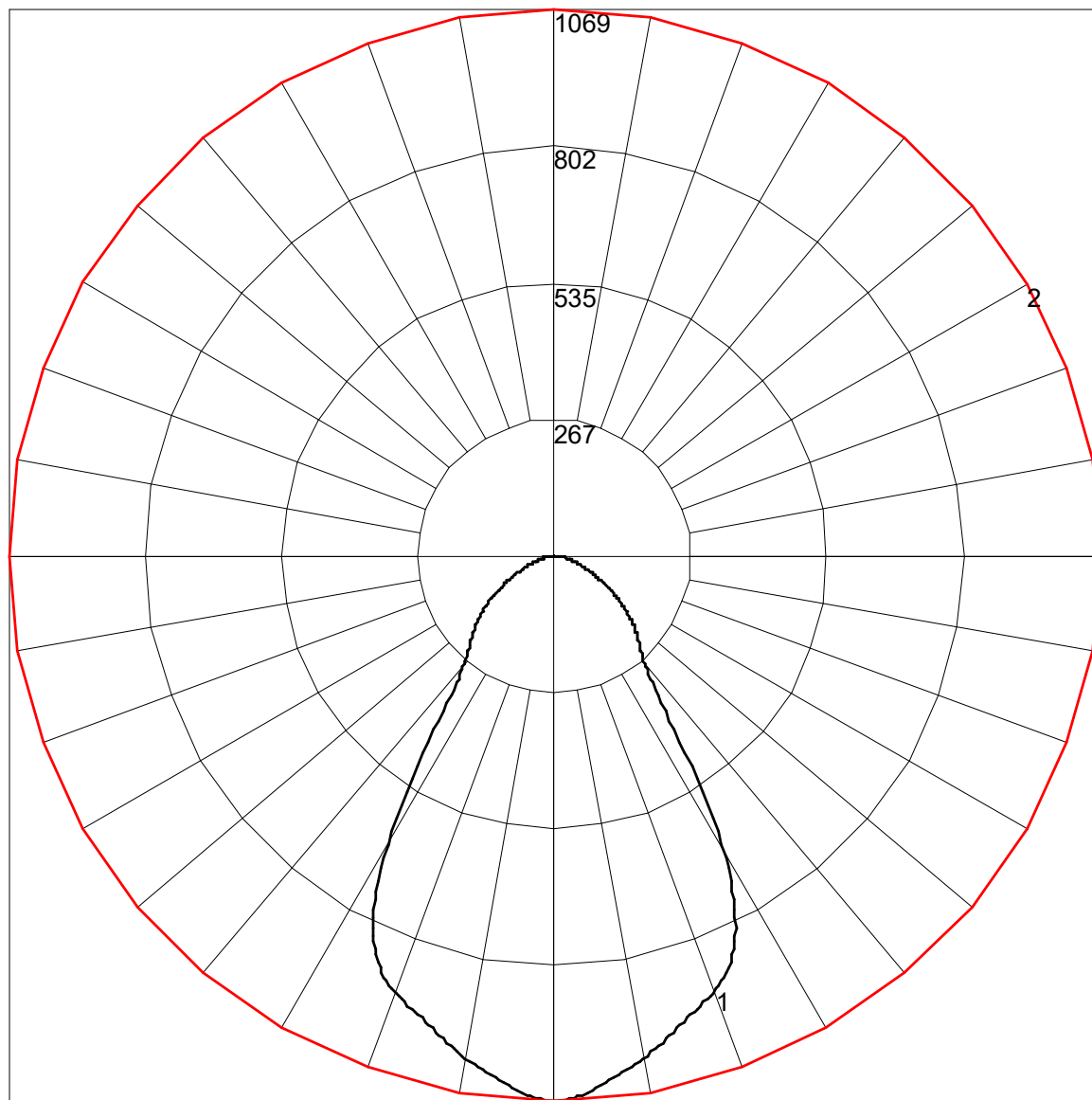
| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 19.2 | 20.5 | 19.5 | 20.8 | 21.1 | 19.2 | 20.5 | 19.5 | 20.8 | 21.1 |
| | 3H | 20.1 | 21.3 | 20.5 | 21.6 | 22.0 | 20.1 | 21.3 | 20.5 | 21.6 | 22.0 |
| | 4H | 20.4 | 21.5 | 20.8 | 21.8 | 22.2 | 20.4 | 21.5 | 20.8 | 21.8 | 22.2 |
| | 6H | 20.5 | 21.6 | 21.0 | 21.9 | 22.3 | 20.5 | 21.6 | 21.0 | 21.9 | 22.3 |
| | 8H | 20.6 | 21.6 | 21.0 | 22.0 | 22.4 | 20.6 | 21.6 | 21.0 | 22.0 | 22.4 |
| | 12H | 20.6 | 21.5 | 21.1 | 21.9 | 22.4 | 20.6 | 21.5 | 21.1 | 21.9 | 22.4 |

UGR Viewed Endwise

| | | | | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 19.5 | 20.6 | 19.9 | 20.9 | 21.3 | 19.5 | 20.6 | 19.9 | 20.9 | 21.3 |
| | 3H | 20.6 | 21.5 | 21.0 | 21.9 | 22.3 | 20.6 | 21.5 | 21.0 | 21.9 | 22.3 |
| | 4H | 21.0 | 21.8 | 21.4 | 22.2 | 22.6 | 21.0 | 21.8 | 21.4 | 22.2 | 22.6 |
| | 6H | 21.2 | 21.9 | 21.7 | 22.4 | 22.8 | 21.2 | 21.9 | 21.7 | 22.4 | 22.8 |
| | 8H | 21.3 | 21.9 | 21.8 | 22.4 | 22.9 | 21.3 | 21.9 | 21.8 | 22.4 | 22.9 |
| | 12H | 21.4 | 21.9 | 21.8 | 22.4 | 22.9 | 21.4 | 21.9 | 21.8 | 22.4 | 22.9 |
| 8H | 4H | 21.0 | 21.7 | 21.5 | 22.1 | 22.6 | 21.0 | 21.7 | 21.5 | 22.1 | 22.6 |
| | 6H | 21.4 | 21.9 | 21.9 | 22.4 | 22.9 | 21.4 | 21.9 | 21.9 | 22.4 | 22.9 |
| | 8H | 21.5 | 22.0 | 22.0 | 22.5 | 23.0 | 21.5 | 22.0 | 22.0 | 22.5 | 23.0 |
| | 12H | 21.6 | 22.0 | 22.1 | 22.5 | 23.1 | 21.6 | 22.0 | 22.1 | 22.5 | 23.1 |
| 12H | 4H | 21.0 | 21.6 | 21.5 | 22.1 | 22.6 | 21.0 | 21.6 | 21.5 | 22.1 | 22.6 |
| | 6H | 21.4 | 21.9 | 21.9 | 22.3 | 22.9 | 21.4 | 21.9 | 21.9 | 22.3 | 22.9 |
| | 8H | 21.5 | 22.0 | 22.1 | 22.5 | 23.0 | 21.5 | 22.0 | 22.1 | 22.5 | 23.0 |

Maximum UGR = 23.1

POLAR GRAPH



Maximum Candela = 1069 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.)