



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-OW-CSU-RW-WHD-WM_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13537338.03 and #12326812.12

[TESTLAB]

[ISSUE DATE] 17-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 8CRDI-TL-L20-835U-L20-835D-xxx-DIM1-UNV-OW-CSU-RW-WHD-WM

[MORE]

[LUMINAIRE] White formed aluminum housing, wide distribution reflector

[MORE] trim, clear uplight glass lens enclosure, wide distr regressed prismatic lens trim down

[LAMP] Two white LEDs (one up/one down)

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] INDOOR, DIRECT, INDIRECT

[_SEARCH_MOUNTING] WALL

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3259 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 86 |
| Total Luminaire Watts | 37.985 |
| Ballast Factor | 1.00 |
| CIE Type | General Diffuse |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 0.65 ft (Diameter) |
| Luminous Width (90-270) | 0.65 ft (Diameter) |
| Luminous Height | 2.17 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2035 | 2035 | 2035 |
| 55 | 1260 | 1260 | 1260 |
| 65 | 621 | 621 | 621 |
| 75 | 228 | 228 | 228 |
| 85 | 61 | 61 | 61 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 1069.000 |
| 0.5 | 1068.000 |
| 1.0 | 1067.000 |
| 1.5 | 1066.000 |
| 2.0 | 1064.000 |
| 2.5 | 1061.000 |
| 3.0 | 1058.000 |
| 3.5 | 1054.000 |
| 4.0 | 1050.000 |
| 4.5 | 1047.000 |
| 5.0 | 1043.000 |
| 5.5 | 1039.000 |
| 6.0 | 1035.000 |
| 6.5 | 1031.000 |
| 7.0 | 1027.000 |
| 7.5 | 1023.000 |
| 8.0 | 1018.000 |
| 8.5 | 1014.000 |
| 9.0 | 1010.000 |
| 9.5 | 1005.000 |
| 10.0 | 1001.000 |
| 10.5 | 996.100 |
| 11.0 | 991.300 |
| 11.5 | 986.500 |
| 12.0 | 981.700 |
| 12.5 | 977.000 |
| 13.0 | 972.200 |
| 13.5 | 967.200 |
| 14.0 | 962.300 |
| 14.5 | 957.500 |
| 15.0 | 953.000 |
| 15.5 | 948.400 |
| 16.0 | 943.900 |
| 16.5 | 939.500 |
| 17.0 | 935.400 |
| 17.5 | 931.300 |
| 18.0 | 927.300 |
| 18.5 | 923.500 |
| 19.0 | 919.700 |
| 19.5 | 915.800 |
| 20.0 | 911.800 |
| 20.5 | 907.500 |
| 21.0 | 902.600 |
| 21.5 | 897.000 |
| 22.0 | 890.700 |
| 22.5 | 883.700 |
| 23.0 | 876.100 |
| 23.5 | 867.500 |
| 24.0 | 858.100 |
| 24.5 | 847.800 |
| 25.0 | 836.400 |
| 25.5 | 824.100 |
| 26.0 | 810.400 |
| 26.5 | 795.400 |

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| | |
|------|---------|
| 27.0 | 779.400 |
| 27.5 | 762.000 |
| 28.0 | 743.500 |
| 28.5 | 723.400 |
| 29.0 | 702.200 |
| 29.5 | 679.200 |
| 30.0 | 654.800 |
| 30.5 | 629.000 |
| 31.0 | 602.200 |
| 31.5 | 574.800 |
| 32.0 | 546.900 |
| 32.5 | 519.200 |
| 33.0 | 491.800 |
| 33.5 | 465.300 |
| 34.0 | 439.900 |
| 34.5 | 416.000 |
| 35.0 | 394.200 |
| 35.5 | 374.200 |
| 36.0 | 356.600 |
| 36.5 | 341.000 |
| 37.0 | 327.300 |
| 37.5 | 315.600 |
| 38.0 | 305.300 |
| 38.5 | 296.200 |
| 39.0 | 288.300 |
| 39.5 | 281.300 |
| 40.0 | 274.900 |
| 40.5 | 269.100 |
| 41.0 | 263.700 |
| 41.5 | 258.800 |
| 42.0 | 254.300 |
| 42.5 | 250.000 |
| 43.0 | 245.900 |
| 43.5 | 242.000 |
| 44.0 | 238.300 |
| 44.5 | 234.800 |
| 45.0 | 231.200 |
| 45.5 | 227.800 |
| 46.0 | 224.300 |
| 46.5 | 220.900 |
| 47.0 | 217.400 |
| 47.5 | 213.900 |
| 48.0 | 210.300 |
| 48.5 | 206.700 |
| 49.0 | 203.300 |
| 49.5 | 199.800 |
| 50.0 | 196.100 |
| 50.5 | 192.300 |
| 51.0 | 188.400 |
| 51.5 | 184.500 |
| 52.0 | 180.600 |
| 52.5 | 176.600 |
| 53.0 | 172.700 |
| 53.5 | 168.900 |
| 54.0 | 164.700 |
| 54.5 | 160.500 |

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| | |
|-------------|---------|
| 55.0 | 156.400 |
| 55.5 | 152.200 |
| 56.0 | 148.100 |
| 56.5 | 144.000 |
| 57.0 | 139.900 |
| 57.5 | 135.800 |
| 58.0 | 131.900 |
| 58.5 | 127.900 |
| 59.0 | 124.000 |
| 59.5 | 120.200 |
| 60.0 | 116.400 |
| 60.5 | 112.600 |
| 61.0 | 108.900 |
| 61.5 | 105.300 |
| 62.0 | 101.700 |
| 62.5 | 98.200 |
| 63.0 | 94.700 |
| 63.5 | 91.200 |
| 64.0 | 87.900 |
| 64.5 | 84.500 |
| 65.0 | 81.300 |
| 65.5 | 78.000 |
| 66.0 | 74.900 |
| 66.5 | 71.800 |
| 67.0 | 68.800 |
| 67.5 | 65.800 |
| 68.0 | 62.900 |
| 68.5 | 60.000 |
| 69.0 | 57.300 |
| 69.5 | 54.500 |
| 70.0 | 51.900 |
| 70.5 | 49.300 |
| 71.0 | 46.800 |
| 71.5 | 44.400 |
| 72.0 | 42.000 |
| 72.5 | 39.800 |
| 73.0 | 37.700 |
| 73.5 | 35.800 |
| 74.0 | 33.900 |
| 74.5 | 32.200 |
| 75.0 | 30.500 |
| 75.5 | 29.000 |
| 76.0 | 27.500 |
| 76.5 | 26.200 |
| 77.0 | 25.000 |
| 77.5 | 23.800 |
| 78.0 | 22.600 |
| 78.5 | 21.400 |
| 79.0 | 20.300 |
| 79.5 | 19.200 |
| 80.0 | 18.100 |
| 80.5 | 17.000 |
| 81.0 | 15.900 |
| 81.5 | 14.900 |
| 82.0 | 13.800 |
| 82.5 | 12.800 |

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| | |
|-------|--------|
| 83.0 | 11.800 |
| 83.5 | 10.900 |
| 84.0 | 9.900 |
| 84.5 | 9.000 |
| 85.0 | 8.100 |
| 85.5 | 7.200 |
| 86.0 | 6.300 |
| 86.5 | 5.400 |
| 87.0 | 4.600 |
| 87.5 | 3.700 |
| 88.0 | 3.000 |
| 88.5 | 2.400 |
| 89.0 | 1.900 |
| 89.5 | 1.400 |
| 90.0 | 4.578 |
| 90.5 | 3.607 |
| 91.0 | 3.635 |
| 91.5 | 3.664 |
| 92.0 | 3.720 |
| 92.5 | 3.749 |
| 93.0 | 3.806 |
| 93.5 | 3.862 |
| 94.0 | 3.919 |
| 94.5 | 4.004 |
| 95.0 | 4.061 |
| 95.5 | 4.146 |
| 96.0 | 4.203 |
| 96.5 | 4.288 |
| 97.0 | 4.374 |
| 97.5 | 4.459 |
| 98.0 | 4.544 |
| 98.5 | 4.629 |
| 99.0 | 4.714 |
| 99.5 | 4.800 |
| 100.0 | 4.913 |
| 100.5 | 5.027 |
| 101.0 | 5.112 |
| 101.5 | 5.254 |
| 102.0 | 5.311 |
| 102.5 | 5.453 |
| 103.0 | 5.566 |
| 103.5 | 5.680 |
| 104.0 | 5.822 |
| 104.5 | 5.964 |
| 105.0 | 6.078 |
| 105.5 | 6.220 |
| 106.0 | 6.362 |
| 106.5 | 6.532 |
| 107.0 | 6.674 |
| 107.5 | 6.816 |
| 108.0 | 6.986 |
| 108.5 | 7.157 |
| 109.0 | 7.299 |
| 109.5 | 7.469 |
| 110.0 | 7.668 |
| 110.5 | 7.867 |

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| | |
|-------|---------|
| 111.0 | 8.066 |
| 111.5 | 8.293 |
| 112.0 | 8.520 |
| 112.5 | 8.719 |
| 113.0 | 8.974 |
| 113.5 | 9.230 |
| 114.0 | 9.486 |
| 114.5 | 9.770 |
| 115.0 | 10.054 |
| 115.5 | 10.366 |
| 116.0 | 10.678 |
| 116.5 | 11.019 |
| 117.0 | 11.360 |
| 117.5 | 11.729 |
| 118.0 | 12.127 |
| 118.5 | 12.524 |
| 119.0 | 12.979 |
| 119.5 | 13.405 |
| 120.0 | 13.916 |
| 120.5 | 14.427 |
| 121.0 | 14.967 |
| 121.5 | 15.563 |
| 122.0 | 16.216 |
| 122.5 | 16.898 |
| 123.0 | 17.636 |
| 123.5 | 18.403 |
| 124.0 | 19.255 |
| 124.5 | 20.136 |
| 125.0 | 21.073 |
| 125.5 | 22.095 |
| 126.0 | 23.146 |
| 126.5 | 24.367 |
| 127.0 | 25.617 |
| 127.5 | 26.866 |
| 128.0 | 28.088 |
| 128.5 | 29.366 |
| 129.0 | 30.729 |
| 129.5 | 32.120 |
| 130.0 | 33.484 |
| 130.5 | 34.904 |
| 131.0 | 36.352 |
| 131.5 | 37.886 |
| 132.0 | 39.561 |
| 132.5 | 41.350 |
| 133.0 | 43.338 |
| 133.5 | 45.412 |
| 134.0 | 47.627 |
| 134.5 | 50.183 |
| 135.0 | 53.335 |
| 135.5 | 57.226 |
| 136.0 | 62.224 |
| 136.5 | 69.012 |
| 137.0 | 78.469 |
| 137.5 | 91.533 |
| 138.0 | 108.204 |
| 138.5 | 128.340 |

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| | |
|-------|----------|
| 139.0 | 152.224 |
| 139.5 | 180.170 |
| 140.0 | 212.460 |
| 140.5 | 248.869 |
| 141.0 | 290.248 |
| 141.5 | 336.824 |
| 142.0 | 387.944 |
| 142.5 | 443.608 |
| 143.0 | 503.532 |
| 143.5 | 566.012 |
| 144.0 | 629.912 |
| 144.5 | 692.960 |
| 145.0 | 755.156 |
| 145.5 | 817.636 |
| 146.0 | 880.400 |
| 146.5 | 943.164 |
| 147.0 | 1006.496 |
| 147.5 | 1068.692 |
| 148.0 | 1128.616 |
| 148.5 | 1185.416 |
| 149.0 | 1239.660 |
| 149.5 | 1290.212 |
| 150.0 | 1336.504 |
| 150.5 | 1377.968 |
| 151.0 | 1415.456 |
| 151.5 | 1448.968 |
| 152.0 | 1478.504 |
| 152.5 | 1504.348 |
| 153.0 | 1526.216 |
| 153.5 | 1545.528 |
| 154.0 | 1561.716 |
| 154.5 | 1574.780 |
| 155.0 | 1585.004 |
| 155.5 | 1592.388 |
| 156.0 | 1596.648 |
| 156.5 | 1597.216 |
| 157.0 | 1594.660 |
| 157.5 | 1590.684 |
| 158.0 | 1584.720 |
| 158.5 | 1577.904 |
| 159.0 | 1569.952 |
| 159.5 | 1561.716 |
| 160.0 | 1552.912 |
| 160.5 | 1544.108 |
| 161.0 | 1534.736 |
| 161.5 | 1525.080 |
| 162.0 | 1515.708 |
| 162.5 | 1506.904 |
| 163.0 | 1497.816 |
| 163.5 | 1489.864 |
| 164.0 | 1482.480 |
| 164.5 | 1475.664 |
| 165.0 | 1469.700 |
| 165.5 | 1463.168 |
| 166.0 | 1457.204 |
| 166.5 | 1450.956 |

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| | |
|--------------|----------|
| 167.0 | 1444.992 |
| 167.5 | 1439.028 |
| 168.0 | 1433.064 |
| 168.5 | 1427.384 |
| 169.0 | 1421.420 |
| 169.5 | 1415.172 |
| 170.0 | 1408.356 |
| 170.5 | 1400.688 |
| 171.0 | 1392.168 |
| 171.5 | 1382.512 |
| 172.0 | 1370.300 |
| 172.5 | 1357.236 |
| 173.0 | 1343.320 |
| 173.5 | 1328.836 |
| 174.0 | 1314.068 |
| 174.5 | 1299.300 |
| 175.0 | 1285.384 |
| 175.5 | 1271.752 |
| 176.0 | 1258.404 |
| 176.5 | 1245.056 |
| 177.0 | 1232.276 |
| 177.5 | 1220.632 |
| 178.0 | 1210.976 |
| 178.5 | 1203.024 |
| 179.0 | 1197.060 |
| 179.5 | 1193.368 |
| 180.0 | 1192.516 |

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| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 367.33 | N.A. | 11.30 |
| 0-30 | 742.60 | N.A. | 22.80 |
| 0-40 | 1002.24 | N.A. | 30.80 |
| 0-60 | 1320.85 | N.A. | 40.50 |
| 0-80 | 1435.88 | N.A. | 44.10 |
| 0-90 | 1445.2 | N.A. | 44.30 |
| 10-90 | 1347.00 | N.A. | 41.30 |
| 20-40 | 634.91 | N.A. | 19.50 |
| 20-50 | 814.04 | N.A. | 25.00 |
| 40-70 | 399.80 | N.A. | 12.30 |
| 60-80 | 115.02 | N.A. | 3.50 |
| 70-80 | 33.84 | N.A. | 1.00 |
| 80-90 | 9.32 | N.A. | 0.30 |
| 90-110 | 11.02 | N.A. | 0.30 |
| 90-120 | 21.20 | N.A. | 0.70 |
| 90-130 | 40.79 | N.A. | 1.30 |
| 90-150 | 558.13 | N.A. | 17.10 |
| 90-180 | 1813.53 | N.A. | 55.70 |
| 110-180 | 1802.51 | N.A. | 55.30 |
| 0-180 | 3258.73 | 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 | 9.32 |
| 90-100 | 4.52 |
| 100-110 | 6.50 |
| 110-120 | 10.18 |
| 120-130 | 19.59 |
| 130-140 | 55.74 |
| 140-150 | 461.60 |
| 150-160 | 708.42 |
| 160-170 | 419.91 |
| 170-180 | 127.07 |

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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 | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 65 | 65 | 65 | 51 | 51 | 51 | 44 |
| 1 | 98 | 94 | 90 | 87 | 89 | 86 | 83 | 81 | 72 | 70 | 68 | 59 | 58 | 56 | 47 | 46 | 45 | 40 |
| 2 | 90 | 83 | 78 | 73 | 82 | 77 | 72 | 68 | 64 | 61 | 58 | 53 | 51 | 49 | 43 | 41 | 40 | 35 |
| 3 | 83 | 74 | 68 | 63 | 76 | 69 | 63 | 59 | 58 | 54 | 51 | 48 | 45 | 43 | 39 | 37 | 36 | 31 |
| 4 | 77 | 67 | 60 | 54 | 70 | 62 | 56 | 51 | 53 | 48 | 44 | 44 | 41 | 38 | 36 | 34 | 32 | 28 |
| 5 | 71 | 60 | 53 | 48 | 65 | 56 | 50 | 45 | 48 | 43 | 39 | 40 | 37 | 34 | 33 | 31 | 29 | 26 |
| 6 | 66 | 55 | 47 | 42 | 60 | 51 | 44 | 40 | 44 | 39 | 35 | 37 | 33 | 31 | 31 | 28 | 26 | 23 |
| 7 | 61 | 50 | 43 | 38 | 56 | 47 | 40 | 36 | 40 | 35 | 32 | 34 | 30 | 28 | 28 | 26 | 24 | 21 |
| 8 | 57 | 46 | 39 | 34 | 53 | 43 | 36 | 32 | 37 | 32 | 29 | 32 | 28 | 25 | 27 | 24 | 22 | 20 |
| 9 | 53 | 42 | 35 | 31 | 49 | 39 | 33 | 29 | 34 | 29 | 26 | 29 | 26 | 23 | 25 | 22 | 20 | 18 |
| 10 | 50 | 39 | 32 | 28 | 46 | 37 | 31 | 27 | 32 | 27 | 24 | 27 | 24 | 21 | 23 | 21 | 19 | 17 |

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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 | 5.3 | 6.0 | 6.3 | 7.1 | 8.4 | 5.3 | 6.0 | 6.3 | 7.1 | 8.4 |
| | 3H | 6.0 | 6.6 | 7.0 | 7.6 | 9.0 | 6.0 | 6.6 | 7.0 | 7.6 | 9.0 |
| | 4H | 6.0 | 6.7 | 7.1 | 7.7 | 9.1 | 6.0 | 6.7 | 7.1 | 7.7 | 9.1 |
| | 6H | 6.1 | 6.6 | 7.1 | 7.7 | 9.1 | 6.1 | 6.6 | 7.1 | 7.7 | 9.1 |
| | 8H | 6.0 | 6.6 | 7.1 | 7.6 | 9.0 | 6.0 | 6.6 | 7.1 | 7.6 | 9.0 |
| | 12H | 6.0 | 6.5 | 7.1 | 7.5 | 9.0 | 6.0 | 6.5 | 7.1 | 7.5 | 9.0 |

UGR Viewed Endwise

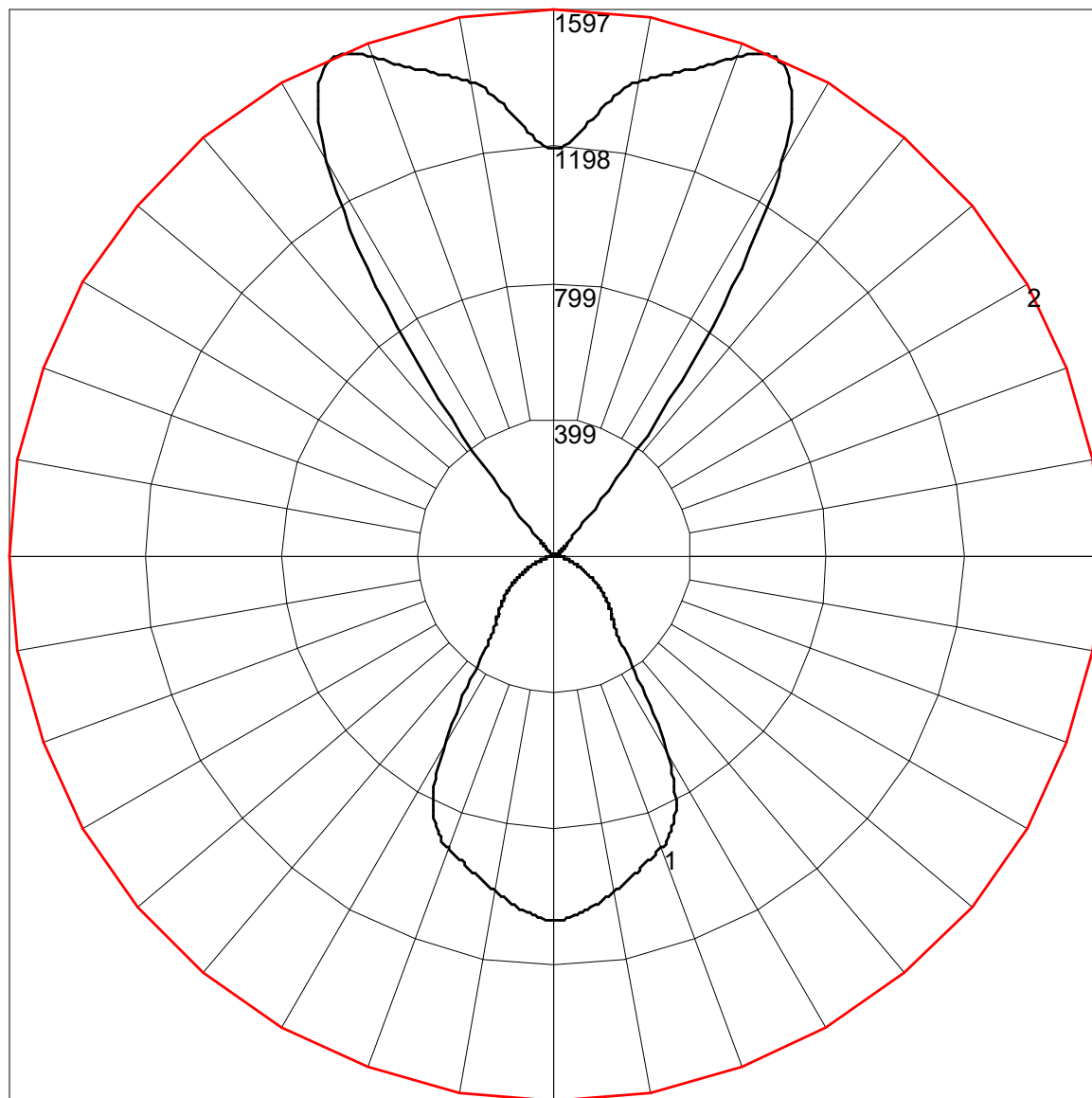
| | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H | 2H | 5.4 | 6.0 | 6.5 | 7.1 | 8.5 | 5.4 | 6.0 | 6.5 | 7.1 | 8.5 |
| | 3H | 6.2 | 6.7 | 7.2 | 7.7 | 9.1 | 6.2 | 6.7 | 7.2 | 7.7 | 9.1 |
| | 4H | 6.3 | 6.8 | 7.4 | 7.8 | 9.2 | 6.3 | 6.8 | 7.4 | 7.8 | 9.2 |
| | 6H | 6.4 | 6.8 | 7.4 | 7.8 | 9.2 | 6.4 | 6.8 | 7.4 | 7.8 | 9.2 |
| | 8H | 6.3 | 6.7 | 7.4 | 7.8 | 9.2 | 6.3 | 6.7 | 7.4 | 7.8 | 9.2 |
| | 12H | 6.3 | 6.6 | 7.4 | 7.7 | 9.2 | 6.3 | 6.6 | 7.4 | 7.7 | 9.2 |
| 8H | 4H | 6.2 | 6.6 | 7.3 | 7.7 | 9.1 | 6.2 | 6.6 | 7.3 | 7.7 | 9.1 |
| | 6H | 6.3 | 6.6 | 7.4 | 7.7 | 9.2 | 6.3 | 6.6 | 7.4 | 7.7 | 9.2 |
| | 8H | 6.3 | 6.6 | 7.4 | 7.7 | 9.2 | 6.3 | 6.6 | 7.4 | 7.7 | 9.2 |
| | 12H | 6.3 | 6.6 | 7.4 | 7.6 | 9.1 | 6.3 | 6.6 | 7.4 | 7.6 | 9.1 |
| 12H | 4H | 6.2 | 6.5 | 7.3 | 7.6 | 9.0 | 6.2 | 6.5 | 7.3 | 7.6 | 9.0 |
| | 6H | 6.3 | 6.6 | 7.4 | 7.6 | 9.1 | 6.3 | 6.6 | 7.4 | 7.6 | 9.1 |
| | 8H | 6.3 | 6.5 | 7.4 | 7.6 | 9.1 | 6.3 | 6.5 | 7.4 | 7.6 | 9.1 |

Maximum UGR = 9.2

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PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-OW-CSU-RW-WHD-WM_.IES

POLAR GRAPH



Maximum Candela = 1597.216 Located At Horizontal Angle = 0, Vertical Angle = 156.5

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (156.5) (Through Max. Cd.)