



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-OM-CSU-OM-CSD-WM_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12326812.04 and #12326812.04

[TESTLAB]

[ISSUE DATE] 16-FEB-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 8CRDI-TL-L20-835U-L20-835D-xxx-DIM1-UNV-OM-CSU-OM-CSD-WM

[LUMINAIRE] White formed aluminum housing, medium distribution reflector

[MORE] trim, clear uplight glass lens enclosure, medium distrib open reflector trim down

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

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] INDOOR, DIRECT, INDIRECT

[_SEARCH_MOUNTING] WALL

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3803 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 100 |
| Total Luminaire Watts | 38.0077 |
| 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 |
| Luminous Length (0-180) | 0.50 ft (Diameter) |
| Luminous Width (90-270) | 0.50 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 | 3578 | 3578 | 3578 |
| 55 | 1318 | 1318 | 1318 |
| 65 | 518 | 518 | 518 |
| 75 | 233 | 233 | 233 |
| 85 | 189 | 189 | 189 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> | <u>202.5</u> |
|-------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 4013.000 | 4013.000 | 4013.000 | 4013.000 | 4013.000 | 4013.000 | 4013.000 | 4013.000 | 4013.000 | 4013.000 |
| 2.5 | 4062.000 | 4062.000 | 4062.000 | 4062.000 | 4062.000 | 4062.000 | 4062.000 | 4062.000 | 4062.000 | 4062.000 |
| 5.0 | 3972.000 | 3972.000 | 3972.000 | 3972.000 | 3972.000 | 3972.000 | 3972.000 | 3972.000 | 3972.000 | 3972.000 |
| 7.5 | 3572.000 | 3572.000 | 3572.000 | 3572.000 | 3572.000 | 3572.000 | 3572.000 | 3572.000 | 3572.000 | 3572.000 |
| 10.0 | 2993.000 | 2993.000 | 2993.000 | 2993.000 | 2993.000 | 2993.000 | 2993.000 | 2993.000 | 2993.000 | 2993.000 |
| 12.5 | 2604.000 | 2604.000 | 2604.000 | 2604.000 | 2604.000 | 2604.000 | 2604.000 | 2604.000 | 2604.000 | 2604.000 |
| 15.0 | 2325.000 | 2325.000 | 2325.000 | 2325.000 | 2325.000 | 2325.000 | 2325.000 | 2325.000 | 2325.000 | 2325.000 |
| 17.5 | 2106.000 | 2106.000 | 2106.000 | 2106.000 | 2106.000 | 2106.000 | 2106.000 | 2106.000 | 2106.000 | 2106.000 |
| 20.0 | 1912.000 | 1912.000 | 1912.000 | 1912.000 | 1912.000 | 1912.000 | 1912.000 | 1912.000 | 1912.000 | 1912.000 |
| 22.5 | 1676.000 | 1676.000 | 1676.000 | 1676.000 | 1676.000 | 1676.000 | 1676.000 | 1676.000 | 1676.000 | 1676.000 |
| 25.0 | 1412.000 | 1412.000 | 1412.000 | 1412.000 | 1412.000 | 1412.000 | 1412.000 | 1412.000 | 1412.000 | 1412.000 |
| 27.5 | 1177.000 | 1177.000 | 1177.000 | 1177.000 | 1177.000 | 1177.000 | 1177.000 | 1177.000 | 1177.000 | 1177.000 |
| 30.0 | 1003.000 | 1003.000 | 1003.000 | 1003.000 | 1003.000 | 1003.000 | 1003.000 | 1003.000 | 1003.000 | 1003.000 |
| 32.5 | 711.200 | 711.200 | 711.200 | 711.200 | 711.200 | 711.200 | 711.200 | 711.200 | 711.200 | 711.200 |
| 35.0 | 395.500 | 395.500 | 395.500 | 395.500 | 395.500 | 395.500 | 395.500 | 395.500 | 395.500 | 395.500 |
| 37.5 | 172.500 | 172.500 | 172.500 | 172.500 | 172.500 | 172.500 | 172.500 | 172.500 | 172.500 | 172.500 |
| 40.0 | 115.800 | 115.800 | 115.800 | 115.800 | 115.800 | 115.800 | 115.800 | 115.800 | 115.800 | 115.800 |
| 42.5 | 65.300 | 65.300 | 65.300 | 65.300 | 65.300 | 65.300 | 65.300 | 65.300 | 65.300 | 65.300 |
| 45.0 | 46.200 | 46.200 | 46.200 | 46.200 | 46.200 | 46.200 | 46.200 | 46.200 | 46.200 | 46.200 |
| 47.5 | 35.800 | 35.800 | 35.800 | 35.800 | 35.800 | 35.800 | 35.800 | 35.800 | 35.800 | 35.800 |
| 50.0 | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 |
| 52.5 | 19.400 | 19.400 | 19.400 | 19.400 | 19.400 | 19.400 | 19.400 | 19.400 | 19.400 | 19.400 |
| 55.0 | 13.800 | 13.800 | 13.800 | 13.800 | 13.800 | 13.800 | 13.800 | 13.800 | 13.800 | 13.800 |
| 57.5 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| 60.0 | 7.300 | 7.300 | 7.300 | 7.300 | 7.300 | 7.300 | 7.300 | 7.300 | 7.300 | 7.300 |
| 62.5 | 5.400 | 5.400 | 5.400 | 5.400 | 5.400 | 5.400 | 5.400 | 5.400 | 5.400 | 5.400 |
| 65.0 | 4.000 | 4.000 | 4.000 | 4.000 | 4.000 | 4.000 | 4.000 | 4.000 | 4.000 | 4.000 |
| 67.5 | 2.900 | 2.900 | 2.900 | 2.900 | 2.900 | 2.900 | 2.900 | 2.900 | 2.900 | 2.900 |
| 70.0 | 2.200 | 2.200 | 2.200 | 2.200 | 2.200 | 2.200 | 2.200 | 2.200 | 2.200 | 2.200 |
| 72.5 | 1.600 | 1.600 | 1.600 | 1.600 | 1.600 | 1.600 | 1.600 | 1.600 | 1.600 | 1.600 |
| 75.0 | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 |
| 77.5 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| 80.0 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 |
| 82.5 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 |
| 85.0 | 0.300 | 0.300 | 0.300 | 0.300 | 0.300 | 0.300 | 0.300 | 0.300 | 0.300 | 0.300 |
| 87.5 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 |
| 90.0 | 0.191 | 0.191 | 0.191 | 0.191 | 0.191 | 0.191 | 0.191 | 0.191 | 0.191 | 0.191 |
| 92.5 | 0.182 | 0.182 | 0.182 | 0.182 | 0.182 | 0.182 | 0.182 | 0.182 | 0.182 | 0.182 |
| 95.0 | 0.273 | 0.273 | 0.273 | 0.273 | 0.273 | 0.273 | 0.273 | 0.273 | 0.273 | 0.273 |
| 97.5 | 0.364 | 0.364 | 0.364 | 0.364 | 0.364 | 0.364 | 0.364 | 0.364 | 0.364 | 0.364 |
| 100.0 | 0.547 | 0.547 | 0.547 | 0.547 | 0.547 | 0.547 | 0.547 | 0.547 | 0.547 | 0.547 |
| 102.5 | 0.729 | 0.729 | 0.729 | 0.729 | 0.729 | 0.729 | 0.729 | 0.729 | 0.729 | 0.729 |
| 105.0 | 1.002 | 1.002 | 1.002 | 1.002 | 1.002 | 1.002 | 1.002 | 1.002 | 1.002 | 1.002 |
| 107.5 | 1.458 | 1.458 | 1.458 | 1.458 | 1.458 | 1.458 | 1.458 | 1.458 | 1.458 | 1.458 |
| 110.0 | 2.004 | 2.004 | 2.004 | 2.004 | 2.004 | 2.004 | 2.004 | 2.004 | 2.004 | 2.004 |
| 112.5 | 2.642 | 2.642 | 2.642 | 2.642 | 2.642 | 2.642 | 2.642 | 2.642 | 2.642 | 2.642 |
| 115.0 | 3.644 | 3.644 | 3.644 | 3.644 | 3.644 | 3.644 | 3.644 | 3.644 | 3.644 | 3.644 |
| 117.5 | 4.919 | 4.919 | 4.919 | 4.919 | 4.919 | 4.919 | 4.919 | 4.919 | 4.919 | 4.919 |
| 120.0 | 6.650 | 6.650 | 6.650 | 6.650 | 6.650 | 6.650 | 6.650 | 6.650 | 6.650 | 6.650 |
| 122.5 | 9.110 | 9.110 | 9.110 | 9.110 | 9.110 | 9.110 | 9.110 | 9.110 | 9.110 | 9.110 |
| 125.0 | 12.572 | 12.572 | 12.572 | 12.572 | 12.572 | 12.572 | 12.572 | 12.572 | 12.572 | 12.572 |
| 127.5 | 17.673 | 17.673 | 17.673 | 17.673 | 17.673 | 17.673 | 17.673 | 17.673 | 17.673 | 17.673 |
| 130.0 | 24.415 | 24.415 | 24.415 | 24.415 | 24.415 | 24.415 | 24.415 | 24.415 | 24.415 | 24.415 |
| 132.5 | 32.614 | 32.614 | 32.614 | 32.614 | 32.614 | 32.614 | 32.614 | 32.614 | 32.614 | 32.614 |

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PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-OM-CSU-OM-CSD-WM_IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 135.0 | 42.088 | 42.088 | 42.088 | 42.088 | 42.088 | 42.088 | 42.088 | 42.088 | 42.088 | 42.088 |
| 137.5 | 59.488 | 59.488 | 59.488 | 59.488 | 59.488 | 59.488 | 59.488 | 59.488 | 59.488 | 59.488 |
| 140.0 | 105.494 | 105.494 | 105.494 | 105.494 | 105.494 | 105.494 | 105.494 | 105.494 | 105.494 | 105.494 |
| 142.5 | 157.148 | 157.148 | 157.148 | 157.148 | 157.148 | 157.148 | 157.148 | 157.148 | 157.148 | 157.148 |
| 145.0 | 360.301 | 360.301 | 360.301 | 360.301 | 360.301 | 360.301 | 360.301 | 360.301 | 360.301 | 360.301 |
| 147.5 | 647.903 | 647.903 | 647.903 | 647.903 | 647.903 | 647.903 | 647.903 | 647.903 | 647.903 | 647.903 |
| 150.0 | 913.733 | 913.733 | 913.733 | 913.733 | 913.733 | 913.733 | 913.733 | 913.733 | 913.733 | 913.733 |
| 152.5 | 1072.247 | 1072.247 | 1072.247 | 1072.247 | 1072.247 | 1072.247 | 1072.247 | 1072.247 | 1072.247 | 1072.247 |
| 155.0 | 1286.332 | 1286.332 | 1286.332 | 1286.332 | 1286.332 | 1286.332 | 1286.332 | 1286.332 | 1286.332 | 1286.332 |
| 157.5 | 1526.836 | 1526.836 | 1526.836 | 1526.836 | 1526.836 | 1526.836 | 1526.836 | 1526.836 | 1526.836 | 1526.836 |
| 160.0 | 1741.832 | 1741.832 | 1741.832 | 1741.832 | 1741.832 | 1741.832 | 1741.832 | 1741.832 | 1741.832 | 1741.832 |
| 162.5 | 1918.566 | 1918.566 | 1918.566 | 1918.566 | 1918.566 | 1918.566 | 1918.566 | 1918.566 | 1918.566 | 1918.566 |
| 165.0 | 2118.075 | 2118.075 | 2118.075 | 2118.075 | 2118.075 | 2118.075 | 2118.075 | 2118.075 | 2118.075 | 2118.075 |
| 167.5 | 2372.244 | 2372.244 | 2372.244 | 2372.244 | 2372.244 | 2372.244 | 2372.244 | 2372.244 | 2372.244 | 2372.244 |
| 170.0 | 2726.623 | 2726.623 | 2726.623 | 2726.623 | 2726.623 | 2726.623 | 2726.623 | 2726.623 | 2726.623 | 2726.623 |
| 172.5 | 3254.093 | 3254.093 | 3254.093 | 3254.093 | 3254.093 | 3254.093 | 3254.093 | 3254.093 | 3254.093 | 3254.093 |
| 175.0 | 3618.493 | 3618.493 | 3618.493 | 3618.493 | 3618.493 | 3618.493 | 3618.493 | 3618.493 | 3618.493 | 3618.493 |
| 177.5 | 3700.482 | 3700.482 | 3700.482 | 3700.482 | 3700.482 | 3700.482 | 3700.482 | 3700.482 | 3700.482 | 3700.482 |
| 180.0 | 3655.000 | 3655.000 | 3655.000 | 3655.000 | 3655.000 | 3655.000 | 3655.000 | 3655.000 | 3655.000 | 3655.000 |

Vert. Angles Horizontal Angles

| | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 4013.000 | 4013.000 | 4013.000 | 4013.000 | 4013.000 | 4013.000 | 4013.000 |
| 2.5 | 4062.000 | 4062.000 | 4062.000 | 4062.000 | 4062.000 | 4062.000 | 4062.000 |
| 5.0 | 3972.000 | 3972.000 | 3972.000 | 3972.000 | 3972.000 | 3972.000 | 3972.000 |
| 7.5 | 3572.000 | 3572.000 | 3572.000 | 3572.000 | 3572.000 | 3572.000 | 3572.000 |
| 10.0 | 2993.000 | 2993.000 | 2993.000 | 2993.000 | 2993.000 | 2993.000 | 2993.000 |
| 12.5 | 2604.000 | 2604.000 | 2604.000 | 2604.000 | 2604.000 | 2604.000 | 2604.000 |
| 15.0 | 2325.000 | 2325.000 | 2325.000 | 2325.000 | 2325.000 | 2325.000 | 2325.000 |
| 17.5 | 2106.000 | 2106.000 | 2106.000 | 2106.000 | 2106.000 | 2106.000 | 2106.000 |
| 20.0 | 1912.000 | 1912.000 | 1912.000 | 1912.000 | 1912.000 | 1912.000 | 1912.000 |
| 22.5 | 1676.000 | 1676.000 | 1676.000 | 1676.000 | 1676.000 | 1676.000 | 1676.000 |
| 25.0 | 1412.000 | 1412.000 | 1412.000 | 1412.000 | 1412.000 | 1412.000 | 1412.000 |
| 27.5 | 1177.000 | 1177.000 | 1177.000 | 1177.000 | 1177.000 | 1177.000 | 1177.000 |
| 30.0 | 1003.000 | 1003.000 | 1003.000 | 1003.000 | 1003.000 | 1003.000 | 1003.000 |
| 32.5 | 711.200 | 711.200 | 711.200 | 711.200 | 711.200 | 711.200 | 711.200 |
| 35.0 | 395.500 | 395.500 | 395.500 | 395.500 | 395.500 | 395.500 | 395.500 |
| 37.5 | 172.500 | 172.500 | 172.500 | 172.500 | 172.500 | 172.500 | 172.500 |
| 40.0 | 115.800 | 115.800 | 115.800 | 115.800 | 115.800 | 115.800 | 115.800 |
| 42.5 | 65.300 | 65.300 | 65.300 | 65.300 | 65.300 | 65.300 | 65.300 |
| 45.0 | 46.200 | 46.200 | 46.200 | 46.200 | 46.200 | 46.200 | 46.200 |
| 47.5 | 35.800 | 35.800 | 35.800 | 35.800 | 35.800 | 35.800 | 35.800 |
| 50.0 | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 | 26.800 |
| 52.5 | 19.400 | 19.400 | 19.400 | 19.400 | 19.400 | 19.400 | 19.400 |
| 55.0 | 13.800 | 13.800 | 13.800 | 13.800 | 13.800 | 13.800 | 13.800 |
| 57.5 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| 60.0 | 7.300 | 7.300 | 7.300 | 7.300 | 7.300 | 7.300 | 7.300 |
| 62.5 | 5.400 | 5.400 | 5.400 | 5.400 | 5.400 | 5.400 | 5.400 |
| 65.0 | 4.000 | 4.000 | 4.000 | 4.000 | 4.000 | 4.000 | 4.000 |
| 67.5 | 2.900 | 2.900 | 2.900 | 2.900 | 2.900 | 2.900 | 2.900 |
| 70.0 | 2.200 | 2.200 | 2.200 | 2.200 | 2.200 | 2.200 | 2.200 |
| 72.5 | 1.600 | 1.600 | 1.600 | 1.600 | 1.600 | 1.600 | 1.600 |
| 75.0 | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 | 1.100 |
| 77.5 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 | 0.800 |
| 80.0 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 | 0.600 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-OM-CSU-OM-CSD-WM_IES****CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|-------|----------|----------|----------|----------|----------|----------|----------|
| 82.5 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 | 0.400 |
| 85.0 | 0.300 | 0.300 | 0.300 | 0.300 | 0.300 | 0.300 | 0.300 |
| 87.5 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 | 0.200 |
| 90.0 | 0.191 | 0.191 | 0.191 | 0.191 | 0.191 | 0.191 | 0.191 |
| 92.5 | 0.182 | 0.182 | 0.182 | 0.182 | 0.182 | 0.182 | 0.182 |
| 95.0 | 0.273 | 0.273 | 0.273 | 0.273 | 0.273 | 0.273 | 0.273 |
| 97.5 | 0.364 | 0.364 | 0.364 | 0.364 | 0.364 | 0.364 | 0.364 |
| 100.0 | 0.547 | 0.547 | 0.547 | 0.547 | 0.547 | 0.547 | 0.547 |
| 102.5 | 0.729 | 0.729 | 0.729 | 0.729 | 0.729 | 0.729 | 0.729 |
| 105.0 | 1.002 | 1.002 | 1.002 | 1.002 | 1.002 | 1.002 | 1.002 |
| 107.5 | 1.458 | 1.458 | 1.458 | 1.458 | 1.458 | 1.458 | 1.458 |
| 110.0 | 2.004 | 2.004 | 2.004 | 2.004 | 2.004 | 2.004 | 2.004 |
| 112.5 | 2.642 | 2.642 | 2.642 | 2.642 | 2.642 | 2.642 | 2.642 |
| 115.0 | 3.644 | 3.644 | 3.644 | 3.644 | 3.644 | 3.644 | 3.644 |
| 117.5 | 4.919 | 4.919 | 4.919 | 4.919 | 4.919 | 4.919 | 4.919 |
| 120.0 | 6.650 | 6.650 | 6.650 | 6.650 | 6.650 | 6.650 | 6.650 |
| 122.5 | 9.110 | 9.110 | 9.110 | 9.110 | 9.110 | 9.110 | 9.110 |
| 125.0 | 12.572 | 12.572 | 12.572 | 12.572 | 12.572 | 12.572 | 12.572 |
| 127.5 | 17.673 | 17.673 | 17.673 | 17.673 | 17.673 | 17.673 | 17.673 |
| 130.0 | 24.415 | 24.415 | 24.415 | 24.415 | 24.415 | 24.415 | 24.415 |
| 132.5 | 32.614 | 32.614 | 32.614 | 32.614 | 32.614 | 32.614 | 32.614 |
| 135.0 | 42.088 | 42.088 | 42.088 | 42.088 | 42.088 | 42.088 | 42.088 |
| 137.5 | 59.488 | 59.488 | 59.488 | 59.488 | 59.488 | 59.488 | 59.488 |
| 140.0 | 105.494 | 105.494 | 105.494 | 105.494 | 105.494 | 105.494 | 105.494 |
| 142.5 | 157.148 | 157.148 | 157.148 | 157.148 | 157.148 | 157.148 | 157.148 |
| 145.0 | 360.301 | 360.301 | 360.301 | 360.301 | 360.301 | 360.301 | 360.301 |
| 147.5 | 647.903 | 647.903 | 647.903 | 647.903 | 647.903 | 647.903 | 647.903 |
| 150.0 | 913.733 | 913.733 | 913.733 | 913.733 | 913.733 | 913.733 | 913.733 |
| 152.5 | 1072.247 | 1072.247 | 1072.247 | 1072.247 | 1072.247 | 1072.247 | 1072.247 |
| 155.0 | 1286.332 | 1286.332 | 1286.332 | 1286.332 | 1286.332 | 1286.332 | 1286.332 |
| 157.5 | 1526.836 | 1526.836 | 1526.836 | 1526.836 | 1526.836 | 1526.836 | 1526.836 |
| 160.0 | 1741.832 | 1741.832 | 1741.832 | 1741.832 | 1741.832 | 1741.832 | 1741.832 |
| 162.5 | 1918.566 | 1918.566 | 1918.566 | 1918.566 | 1918.566 | 1918.566 | 1918.566 |
| 165.0 | 2118.075 | 2118.075 | 2118.075 | 2118.075 | 2118.075 | 2118.075 | 2118.075 |
| 167.5 | 2372.244 | 2372.244 | 2372.244 | 2372.244 | 2372.244 | 2372.244 | 2372.244 |
| 170.0 | 2726.623 | 2726.623 | 2726.623 | 2726.623 | 2726.623 | 2726.623 | 2726.623 |
| 172.5 | 3254.093 | 3254.093 | 3254.093 | 3254.093 | 3254.093 | 3254.093 | 3254.093 |
| 175.0 | 3618.493 | 3618.493 | 3618.493 | 3618.493 | 3618.493 | 3618.493 | 3618.493 |
| 177.5 | 3700.482 | 3700.482 | 3700.482 | 3700.482 | 3700.482 | 3700.482 | 3700.482 |
| 180.0 | 3655.000 | 3655.000 | 3655.000 | 3655.000 | 3655.000 | 3655.000 | 3655.000 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-OM-CSU-OM-CSD-WM_.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1002.85 | N.A. | 26.40 |
| 0-30 | 1652.24 | N.A. | 43.40 |
| 0-40 | 1929.18 | N.A. | 50.70 |
| 0-60 | 1984.03 | N.A. | 52.20 |
| 0-80 | 1989.52 | N.A. | 52.30 |
| 0-90 | 1989.87 | N.A. | 52.30 |
| 10-90 | 1644.25 | N.A. | 43.20 |
| 20-40 | 926.33 | N.A. | 24.40 |
| 20-50 | 967.83 | N.A. | 25.50 |
| 40-70 | 59.05 | N.A. | 1.60 |
| 60-80 | 5.49 | N.A. | 0.10 |
| 70-80 | 1.29 | N.A. | 0.00 |
| 80-90 | 0.35 | N.A. | 0.00 |
| 90-110 | 1.50 | N.A. | 0.00 |
| 90-120 | 5.32 | N.A. | 0.10 |
| 90-130 | 17.48 | N.A. | 0.50 |
| 90-150 | 307.58 | N.A. | 8.10 |
| 90-180 | 1812.78 | N.A. | 47.70 |
| 110-180 | 1811.28 | N.A. | 47.60 |
| 0-180 | 3802.65 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 345.63 |
| 10-20 | 657.23 |
| 20-30 | 649.39 |
| 30-40 | 276.94 |
| 40-50 | 41.51 |
| 50-60 | 13.35 |
| 60-70 | 4.20 |
| 70-80 | 1.29 |
| 80-90 | 0.35 |
| 90-100 | 0.32 |
| 100-110 | 1.18 |
| 110-120 | 3.83 |
| 120-130 | 12.16 |
| 130-140 | 37.81 |
| 140-150 | 252.29 |
| 150-160 | 591.59 |
| 160-170 | 598.73 |
| 170-180 | 314.86 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-OM-CSU-OM-CSD-WM_.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC RW | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 108 | 108 | 108 | 108 | 100 | 100 | 100 | 100 | 85 | 85 | 85 | 71 | 71 | 71 | 58 | 58 | 58 | 52 |
| 1 | 101 | 98 | 95 | 92 | 94 | 91 | 89 | 86 | 78 | 77 | 75 | 66 | 65 | 64 | 56 | 55 | 54 | 50 |
| 2 | 95 | 89 | 85 | 81 | 88 | 83 | 79 | 76 | 72 | 70 | 67 | 62 | 61 | 59 | 53 | 52 | 51 | 47 |
| 3 | 89 | 82 | 76 | 72 | 83 | 77 | 72 | 68 | 67 | 64 | 61 | 59 | 56 | 54 | 50 | 49 | 48 | 44 |
| 4 | 83 | 75 | 69 | 65 | 78 | 71 | 66 | 62 | 63 | 59 | 56 | 55 | 52 | 50 | 48 | 46 | 45 | 42 |
| 5 | 79 | 70 | 63 | 59 | 73 | 66 | 60 | 56 | 59 | 55 | 52 | 52 | 49 | 47 | 46 | 44 | 42 | 39 |
| 6 | 74 | 65 | 58 | 54 | 69 | 61 | 56 | 52 | 55 | 51 | 48 | 49 | 46 | 44 | 44 | 41 | 40 | 37 |
| 7 | 70 | 60 | 54 | 50 | 66 | 57 | 52 | 48 | 52 | 48 | 44 | 46 | 43 | 41 | 42 | 39 | 38 | 36 |
| 8 | 66 | 56 | 50 | 46 | 62 | 54 | 48 | 45 | 49 | 45 | 42 | 44 | 41 | 39 | 40 | 37 | 36 | 34 |
| 9 | 63 | 53 | 47 | 43 | 59 | 51 | 45 | 42 | 46 | 42 | 39 | 42 | 39 | 36 | 38 | 36 | 34 | 32 |
| 10 | 60 | 50 | 44 | 40 | 56 | 48 | 43 | 39 | 44 | 40 | 37 | 40 | 37 | 35 | 36 | 34 | 32 | 31 |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-OM-CSU-OM-CSD-WM_.IES

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 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 3H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 4H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 6H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 8H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 12H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |

UGR Viewed Endwise

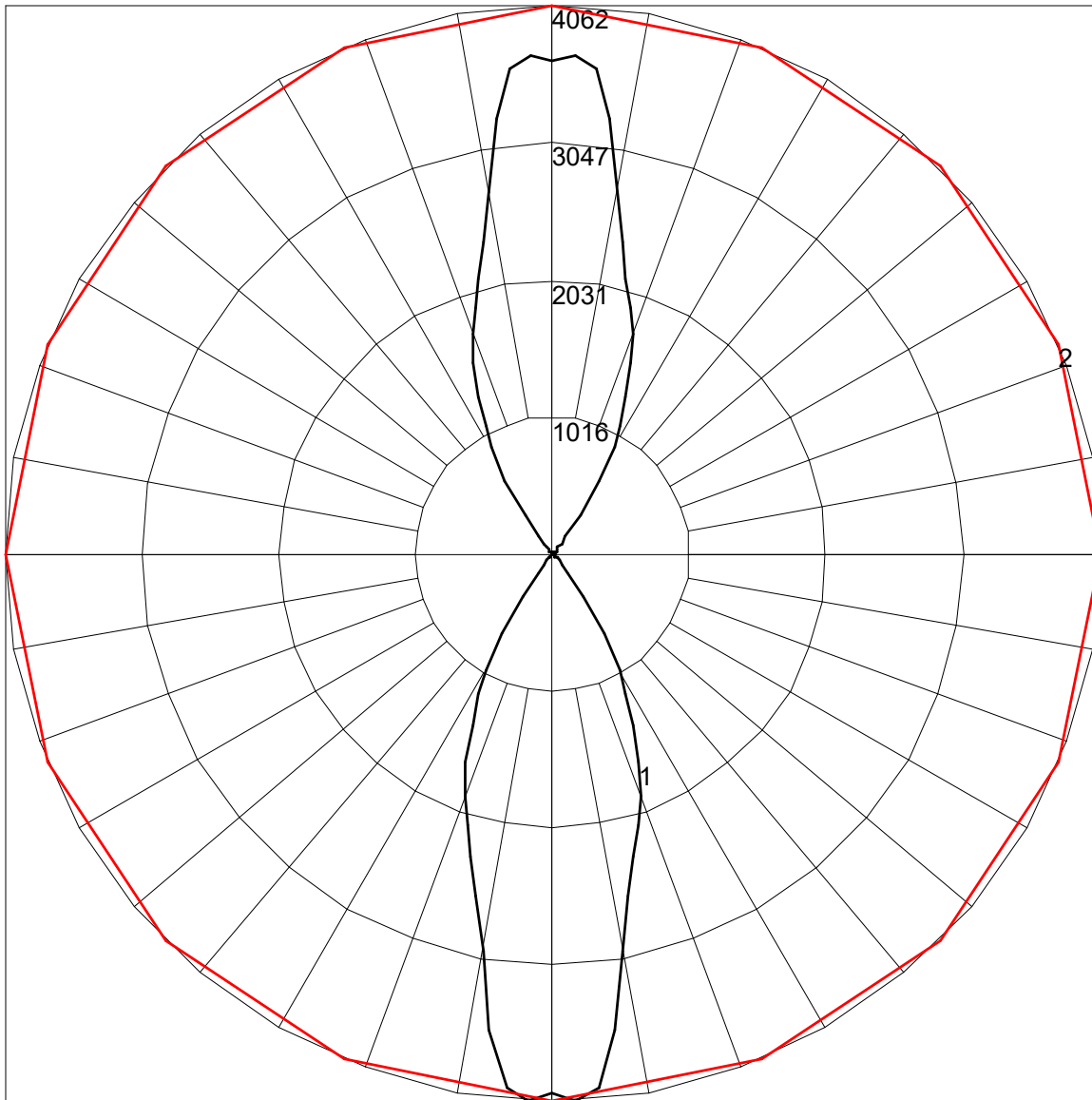
| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H | 2H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 3H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 4H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 6H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 8H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 12H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 8H | 4H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 6H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 8H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 12H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| 12H | 4H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 6H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |
| | 8H | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 |

Maximum UGR = 4.7

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8CRDI-TL-L20-835U-L20-835D-XXX-DIM1-UNV-OM-CSU-OM-CSD-WM_.IES

POLAR GRAPH



Maximum Candela = 4062 Located At Horizontal Angle = 0, Vertical Angle = 2.5

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

2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)