



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-L60-835-ON-CS-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 17-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-L60/835-ON-CS-DIM-UNV

[LUMINAIRE] 8.5 INCH RECESSED LED DOWNLIGHT FIXTURE WITH

[MORE] SEMI-SPECULAR TRIM, (1) LED MODULE AND (1) ELECTRONIC DRIVER

[LAMPCAT] X1-3500K LED

[LAMP] (1) 3500K LED MODULE

[BALLASTCAT]

[BALLAST]

[OTHER]

[MOUNTING] RECESSED

[ABSOLUTE] TEST ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS

[MORE] CREATED USING A 1000 WATT, NIST TRACEABLE, OMNIDIRECTIONAL

[MORE] LAB LUMEN STANDARD IN THE GONIOPHOTOMETER WITH A TEST

[MORE] DISTANCE OF 28 FEET

[ABSOLUTENOTE] DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[ABSOLUTE LUMENS] 10287

[CONVERT] Photometric web converted from original test data

[CONVERT] Photometric web converted from original test data

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 5444 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 76 |
| Total Luminaire Watts | 71.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.64 |
| Spacing Criterion (90-270) | 0.64 |
| Spacing Criterion (Diagonal) | 0.68 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.71 ft (Diameter) |
| Luminous Width (90-270) | 0.71 ft (Diameter) |
| Luminous Height | 0.00 ft |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 9067 | 9067 | 9067 |
| 55 | 815 | 815 | 815 |
| 65 | 514 | 514 | 514 |
| 75 | 323 | 323 | 323 |
| 85 | 192 | 192 | 192 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 9677.814 |
| 2.5 | 9781.212 |
| 5.0 | 9546.272 |
| 7.5 | 9188.969 |
| 10.0 | 8392.375 |
| 12.5 | 7518.691 |
| 15.0 | 6597.898 |
| 17.5 | 5671.598 |
| 20.0 | 4688.399 |
| 22.5 | 3921.173 |
| 25.0 | 3371.144 |
| 27.5 | 2921.454 |
| 30.0 | 2464.423 |
| 32.5 | 1992.707 |
| 35.0 | 1525.886 |
| 37.5 | 1080.480 |
| 40.0 | 693.808 |
| 42.5 | 420.322 |
| 45.0 | 234.940 |
| 47.5 | 100.951 |
| 50.0 | 33.650 |
| 52.5 | 20.802 |
| 55.0 | 17.131 |
| 57.5 | 14.684 |
| 60.0 | 12.236 |
| 62.5 | 9.789 |
| 65.0 | 7.954 |
| 67.5 | 6.118 |
| 70.0 | 4.895 |
| 72.5 | 3.671 |
| 75.0 | 3.059 |
| 77.5 | 2.447 |
| 80.0 | 1.835 |
| 82.5 | 1.224 |
| 85.0 | 0.612 |
| 87.5 | 0.612 |
| 90.0 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 2690.03 | N.A. | 49.40 |
| 0-30 | 4256.85 | N.A. | 78.20 |
| 0-40 | 5205.19 | N.A. | 95.60 |
| 0-60 | 5431.91 | N.A. | 99.80 |
| 0-80 | 5443.22 | N.A. | 100.00 |
| 0-90 | 5444.13 | N.A. | 100.00 |
| 10-90 | 4566.53 | N.A. | 83.90 |
| 20-40 | 2515.16 | N.A. | 46.20 |
| 20-50 | 2725.09 | N.A. | 50.10 |
| 40-70 | 234.72 | N.A. | 4.30 |
| 60-80 | 11.31 | N.A. | 0.20 |
| 70-80 | 3.31 | N.A. | 0.10 |
| 80-90 | 0.92 | N.A. | 0.00 |
| 90-110 | 0.00 | N.A. | 0.00 |
| 90-120 | 0.00 | N.A. | 0.00 |
| 90-130 | 0.00 | N.A. | 0.00 |
| 90-150 | 0.00 | N.A. | 0.00 |
| 90-180 | 0.00 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 5444.13 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 877.61 |
| 10-20 | 1812.42 |
| 20-30 | 1566.82 |
| 30-40 | 948.34 |
| 40-50 | 209.93 |
| 50-60 | 16.79 |
| 60-70 | 8.00 |
| 70-80 | 3.31 |
| 80-90 | 0.92 |
| 90-100 | 0.00 |
| 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 | 114 | 111 | 109 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | 102 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 101 | 98 | 107 | 103 | 99 | 96 | 100 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 89 |
| 3 | 104 | 98 | 94 | 90 | 102 | 97 | 93 | 89 | 94 | 91 | 88 | 92 | 89 | 86 | 90 | 87 | 85 | 84 |
| 4 | 99 | 92 | 87 | 84 | 98 | 91 | 87 | 83 | 89 | 85 | 82 | 87 | 84 | 81 | 85 | 83 | 80 | 79 |
| 5 | 95 | 87 | 82 | 78 | 93 | 86 | 81 | 78 | 85 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 76 | 74 |
| 6 | 91 | 83 | 77 | 73 | 89 | 82 | 77 | 73 | 80 | 76 | 72 | 79 | 75 | 72 | 78 | 74 | 72 | 70 |
| 7 | 87 | 78 | 73 | 69 | 86 | 78 | 72 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 74 | 71 | 68 | 66 |
| 8 | 83 | 74 | 69 | 65 | 82 | 74 | 69 | 65 | 73 | 68 | 65 | 72 | 68 | 65 | 71 | 67 | 64 | 63 |
| 9 | 80 | 71 | 65 | 62 | 79 | 70 | 65 | 62 | 69 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 61 | 60 |
| 10 | 76 | 68 | 62 | 59 | 75 | 67 | 62 | 59 | 66 | 62 | 58 | 66 | 61 | 58 | 65 | 61 | 58 | 57 |

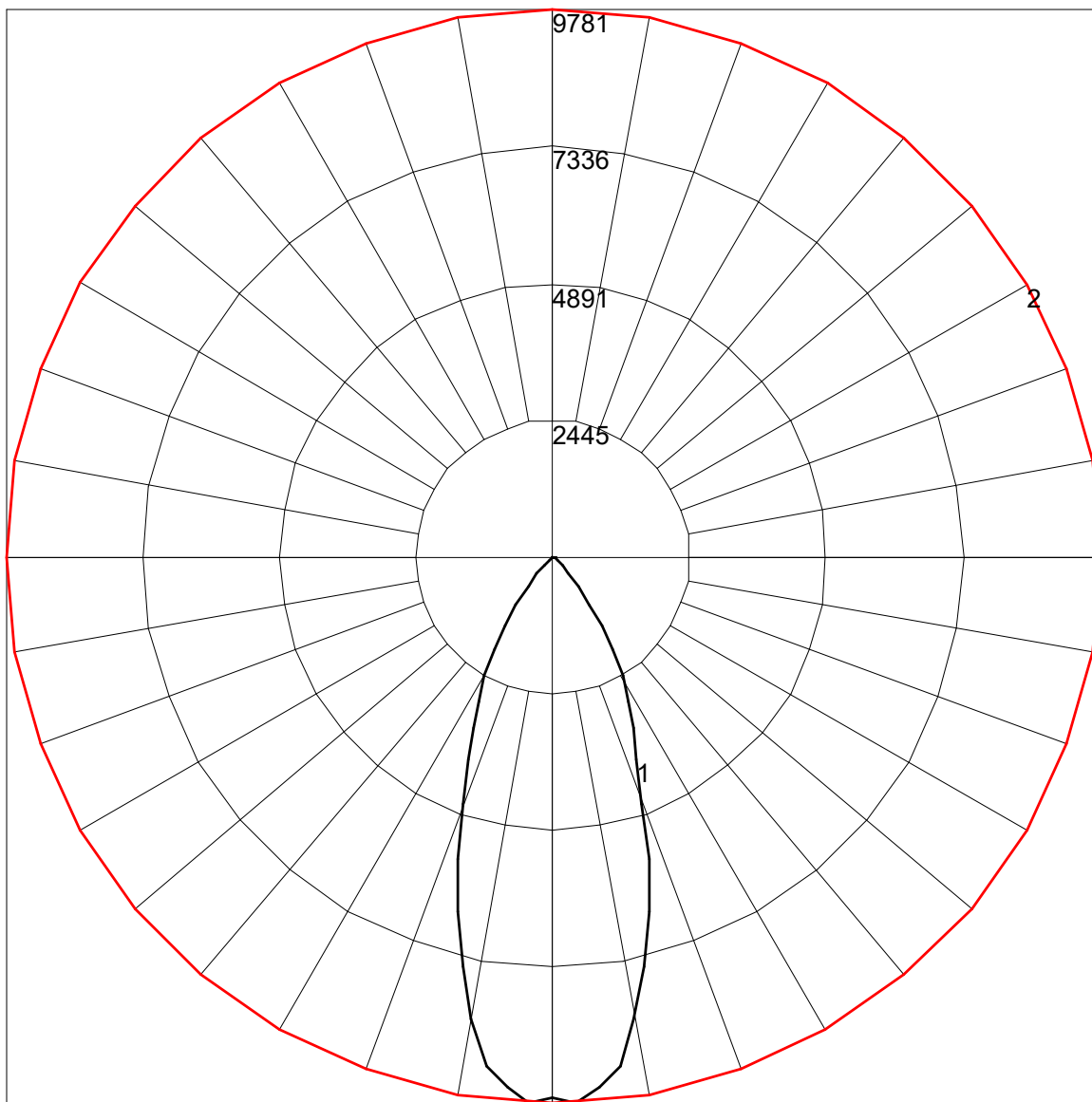
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UGR TABLE - CORRECTED

| | | | | | | | | | | | |
|----------------|------|----------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|
| 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 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 3H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 4H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 6H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 8H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 12H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 4H | 2H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 3H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 4H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 6H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 8H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 12H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 8H | 4H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 6H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 8H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 12H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| 12H | 4H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 6H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |
| | 8H | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 |

Maximum UGR = 5.9

POLAR GRAPH



Maximum Candela = 9781.212 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.)