



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P64-835-POE-OW-CS_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUE DATE] 17-JUN-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-P64/835-PoE-OW-CS

[LUMINAIRE] 8.5 INCH RECESSED LED PoE DOWNLIGHT FIXTURE WITH

[MORE] SEMI-SPECULAR TRIM

[LAMPCAT] X1-3500K LED

[LAMP] (1) 3500K LED MODULE

[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.

[ABSOLUTELUMENS] 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 | 6422 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 93 |
| Total Luminaire Watts | 69 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.06 |
| Spacing Criterion (90-270) | 1.06 |
| Spacing Criterion (Diagonal) | 0.96 |
| 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 | 14843 | 14843 | 14843 |
| 55 | 2466 | 2466 | 2466 |
| 65 | 1693 | 1693 | 1693 |
| 75 | 1317 | 1317 | 1317 |
| 85 | 978 | 978 | 978 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 6279.046 |
| 2.5 | 6287.163 |
| 5.0 | 6318.379 |
| 7.5 | 6197.881 |
| 10.0 | 6077.382 |
| 12.5 | 5999.963 |
| 15.0 | 5760.214 |
| 17.5 | 5546.063 |
| 20.0 | 5372.496 |
| 22.5 | 5197.678 |
| 25.0 | 4982.279 |
| 27.5 | 4603.926 |
| 30.0 | 3932.129 |
| 32.5 | 3197.275 |
| 35.0 | 2461.171 |
| 37.5 | 1770.644 |
| 40.0 | 1161.907 |
| 42.5 | 706.759 |
| 45.0 | 384.597 |
| 47.5 | 168.573 |
| 50.0 | 83.038 |
| 52.5 | 64.932 |
| 55.0 | 51.821 |
| 57.5 | 43.080 |
| 60.0 | 36.213 |
| 62.5 | 30.592 |
| 65.0 | 26.222 |
| 67.5 | 21.852 |
| 70.0 | 18.106 |
| 72.5 | 14.984 |
| 75.0 | 12.488 |
| 77.5 | 9.989 |
| 80.0 | 7.492 |
| 82.5 | 4.994 |
| 85.0 | 3.122 |
| 87.5 | 1.249 |
| 90.0 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 2214.1 | N.A. | 34.50 |
| 0-30 | 4445.08 | N.A. | 69.20 |
| 0-40 | 5977.5 | N.A. | 93.10 |
| 0-60 | 6379.35 | N.A. | 99.30 |
| 0-80 | 6418.75 | N.A. | 99.90 |
| 0-90 | 6422.32 | N.A. | 100.00 |
| 10-90 | 5829.02 | N.A. | 90.80 |
| 20-40 | 3763.4 | N.A. | 58.60 |
| 20-50 | 4116.42 | N.A. | 64.10 |
| 40-70 | 428.00 | N.A. | 6.70 |
| 60-80 | 39.40 | N.A. | 0.60 |
| 70-80 | 13.25 | N.A. | 0.20 |
| 80-90 | 3.57 | N.A. | 0.10 |
| 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 | 6422.32 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 593.30 |
| 10-20 | 1620.8 |
| 20-30 | 2230.98 |
| 30-40 | 1532.42 |
| 40-50 | 353.02 |
| 50-60 | 48.83 |
| 60-70 | 26.15 |
| 70-80 | 13.25 |
| 80-90 | 3.57 |
| 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 | 127 | 127 | 127 | 127 | 124 | 124 | 124 | 124 | 119 | 119 | 119 | 114 | 114 | 114 | 109 | 109 | 109 | 107 |
| 1 | 121 | 118 | 116 | 113 | 119 | 116 | 114 | 111 | 112 | 110 | 108 | 108 | 106 | 105 | 104 | 103 | 102 | 100 |
| 2 | 115 | 110 | 106 | 102 | 113 | 108 | 104 | 101 | 105 | 101 | 99 | 101 | 99 | 96 | 98 | 96 | 94 | 93 |
| 3 | 109 | 102 | 97 | 93 | 107 | 101 | 96 | 92 | 98 | 94 | 90 | 95 | 92 | 89 | 93 | 90 | 88 | 86 |
| 4 | 104 | 95 | 89 | 85 | 102 | 94 | 89 | 84 | 92 | 87 | 83 | 90 | 86 | 82 | 88 | 84 | 81 | 80 |
| 5 | 98 | 89 | 83 | 78 | 96 | 88 | 82 | 78 | 86 | 81 | 77 | 84 | 80 | 76 | 83 | 79 | 76 | 74 |
| 6 | 93 | 83 | 77 | 72 | 92 | 83 | 76 | 72 | 81 | 76 | 72 | 79 | 75 | 71 | 78 | 74 | 71 | 69 |
| 7 | 88 | 78 | 72 | 67 | 87 | 78 | 71 | 67 | 76 | 71 | 67 | 75 | 70 | 66 | 74 | 69 | 66 | 64 |
| 8 | 84 | 74 | 67 | 63 | 83 | 73 | 67 | 62 | 72 | 66 | 62 | 71 | 66 | 62 | 70 | 65 | 62 | 60 |
| 9 | 80 | 69 | 63 | 58 | 79 | 69 | 63 | 58 | 68 | 62 | 58 | 67 | 62 | 58 | 66 | 61 | 58 | 56 |
| 10 | 76 | 65 | 59 | 55 | 75 | 65 | 59 | 55 | 64 | 58 | 55 | 63 | 58 | 54 | 62 | 58 | 54 | 53 |

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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

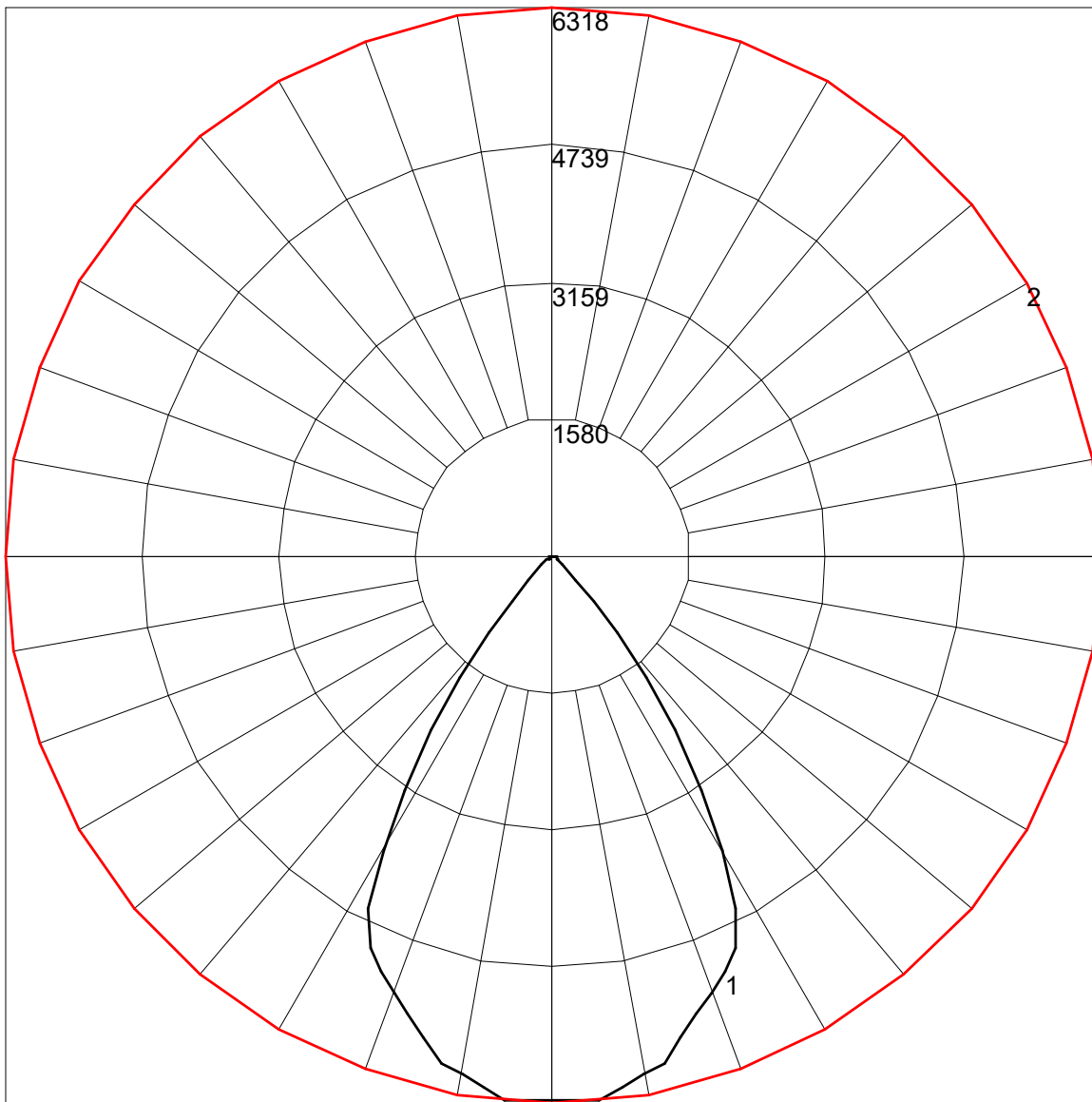
| | | | | | | | | | | |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| X=2H | Y=2H | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | 3H | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | 4H | 6.2 | 6.2 | 6.2 | 6.2 | 6.4 | 6.2 | 6.2 | 6.2 | 6.4 |
| | 6H | 6.2 | 6.2 | 6.2 | 6.3 | 6.7 | 6.2 | 6.2 | 6.2 | 6.3 |
| | 8H | 6.2 | 6.2 | 6.2 | 6.3 | 6.7 | 6.2 | 6.2 | 6.2 | 6.3 |
| | 12H | 6.2 | 6.2 | 6.2 | 6.3 | 6.7 | 6.2 | 6.2 | 6.2 | 6.3 |

UGR Viewed Endwise

| | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H | 2H | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 | 6.2 |
| | 3H | 6.2 | 6.2 | 6.2 | 6.2 | 6.4 | 6.2 | 6.2 | 6.2 | 6.4 |
| | 4H | 6.2 | 6.2 | 6.2 | 6.5 | 6.9 | 6.2 | 6.2 | 6.2 | 6.5 |
| | 6H | 6.2 | 6.4 | 6.3 | 6.8 | 7.3 | 6.2 | 6.4 | 6.3 | 6.8 |
| | 8H | 6.2 | 6.4 | 6.5 | 6.9 | 7.4 | 6.2 | 6.4 | 6.5 | 6.9 |
| | 12H | 6.2 | 6.4 | 6.5 | 6.9 | 7.4 | 6.2 | 6.4 | 6.5 | 6.9 |
| 8H | 4H | 6.2 | 6.2 | 6.2 | 6.5 | 7.0 | 6.2 | 6.2 | 6.2 | 6.5 |
| | 6H | 6.2 | 6.5 | 6.6 | 7.0 | 7.5 | 6.2 | 6.5 | 6.6 | 7.0 |
| | 8H | 6.3 | 6.6 | 6.8 | 7.1 | 7.6 | 6.3 | 6.6 | 6.8 | 7.1 |
| | 12H | 6.4 | 6.7 | 6.9 | 7.2 | 7.8 | 6.4 | 6.7 | 6.9 | 7.2 |
| 12H | 4H | 6.2 | 6.2 | 6.2 | 6.4 | 6.9 | 6.2 | 6.2 | 6.2 | 6.4 |
| | 6H | 6.2 | 6.4 | 6.7 | 6.9 | 7.5 | 6.2 | 6.4 | 6.7 | 6.9 |
| | 8H | 6.3 | 6.6 | 6.8 | 7.1 | 7.7 | 6.3 | 6.6 | 6.8 | 7.1 |

Maximum UGR = 7.8

POLAR GRAPH



Maximum Candela = 6318.379 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)