



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 8DR-P19-8TW-POE-OM-CS 3000K_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[ISSUEDATE] 2-JUL-2021

[MANUFAC] H.E. WILLIAMS

[LUMCAT] 8DR-TL-P19/8TW-PoE-OM-CS 3000k

[LUMINAIRE] 8.5 INCH RECESSED LED TUNABLE WHITE DOWNLIGHT PoE FIXTURE WITH SEMI-SPECULAR TRIM

[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 | 1395 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 82 |
| Total Luminaire Watts | 17 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.80 |
| Spacing Criterion (90-270) | 0.80 |
| Spacing Criterion (Diagonal) | 0.78 |
| 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 | 2199 | 2199 | 2199 |
| 55 | 351 | 351 | 351 |
| 65 | 243 | 243 | 243 |
| 75 | 162 | 162 | 162 |
| 85 | 87 | 87 | 87 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 1991.503 |
| 2.5 | 2001.533 |
| 5.0 | 1997.493 |
| 7.5 | 1934.945 |
| 10.0 | 1927.005 |
| 12.5 | 1811.103 |
| 15.0 | 1679.182 |
| 17.5 | 1528.732 |
| 20.0 | 1354.601 |
| 22.5 | 1168.211 |
| 25.0 | 974.438 |
| 27.5 | 810.894 |
| 30.0 | 644.285 |
| 32.5 | 489.239 |
| 35.0 | 363.586 |
| 37.5 | 256.739 |
| 40.0 | 167.027 |
| 42.5 | 101.275 |
| 45.0 | 56.976 |
| 47.5 | 26.329 |
| 50.0 | 12.398 |
| 52.5 | 9.194 |
| 55.0 | 7.383 |
| 57.5 | 6.269 |
| 60.0 | 5.294 |
| 62.5 | 4.458 |
| 65.0 | 3.761 |
| 67.5 | 3.065 |
| 70.0 | 2.508 |
| 72.5 | 2.090 |
| 75.0 | 1.532 |
| 77.5 | 1.114 |
| 80.0 | 0.697 |
| 82.5 | 0.557 |
| 85.0 | 0.279 |
| 87.5 | 0.139 |
| 90.0 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 650.74 | N.A. | 46.60 |
| 0-30 | 1098.52 | N.A. | 78.70 |
| 0-40 | 1330.7 | N.A. | 95.40 |
| 0-60 | 1389.23 | N.A. | 99.60 |
| 0-80 | 1394.65 | N.A. | 100.00 |
| 0-90 | 1395.01 | N.A. | 100.00 |
| 10-90 | 1208.02 | N.A. | 86.60 |
| 20-40 | 679.96 | N.A. | 48.70 |
| 20-50 | 731.44 | N.A. | 52.40 |
| 40-70 | 62.29 | N.A. | 4.50 |
| 60-80 | 5.42 | N.A. | 0.40 |
| 70-80 | 1.67 | N.A. | 0.10 |
| 80-90 | 0.36 | 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 | 1395.01 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 187.00 |
| 10-20 | 463.74 |
| 20-30 | 447.78 |
| 30-40 | 232.18 |
| 40-50 | 51.49 |
| 50-60 | 7.05 |
| 60-70 | 3.75 |
| 70-80 | 1.67 |
| 80-90 | 0.36 |
| 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 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 | 48 | 48 | 48 | 48 | 47 | 47 | 47 | 47 | 45 | 45 | 45 | 43 | 43 | 43 | 41 | 41 | 41 | 40 |
| 1 | 46 | 45 | 44 | 43 | 45 | 44 | 43 | 43 | 42 | 42 | 41 | 41 | 40 | 40 | 40 | 39 | 39 | 38 |
| 2 | 44 | 42 | 41 | 39 | 43 | 41 | 40 | 39 | 40 | 39 | 38 | 39 | 38 | 37 | 38 | 37 | 36 | 36 |
| 3 | 42 | 40 | 38 | 36 | 41 | 39 | 37 | 36 | 38 | 36 | 35 | 37 | 36 | 35 | 36 | 35 | 34 | 34 |
| 4 | 40 | 37 | 35 | 33 | 39 | 37 | 35 | 33 | 36 | 34 | 33 | 35 | 34 | 33 | 34 | 33 | 32 | 32 |
| 5 | 38 | 35 | 33 | 31 | 38 | 35 | 33 | 31 | 34 | 32 | 31 | 33 | 32 | 31 | 33 | 31 | 30 | 30 |
| 6 | 36 | 33 | 31 | 29 | 36 | 33 | 31 | 29 | 32 | 30 | 29 | 32 | 30 | 29 | 31 | 30 | 29 | 28 |
| 7 | 35 | 31 | 29 | 27 | 34 | 31 | 29 | 27 | 31 | 29 | 27 | 30 | 28 | 27 | 30 | 28 | 27 | 26 |
| 8 | 33 | 30 | 27 | 26 | 33 | 29 | 27 | 26 | 29 | 27 | 26 | 29 | 27 | 26 | 28 | 27 | 25 | 25 |
| 9 | 32 | 28 | 26 | 24 | 31 | 28 | 26 | 24 | 28 | 26 | 24 | 27 | 26 | 24 | 27 | 25 | 24 | 24 |
| 10 | 30 | 27 | 25 | 23 | 30 | 27 | 25 | 23 | 26 | 24 | 23 | 26 | 24 | 23 | 26 | 24 | 23 | 22 |

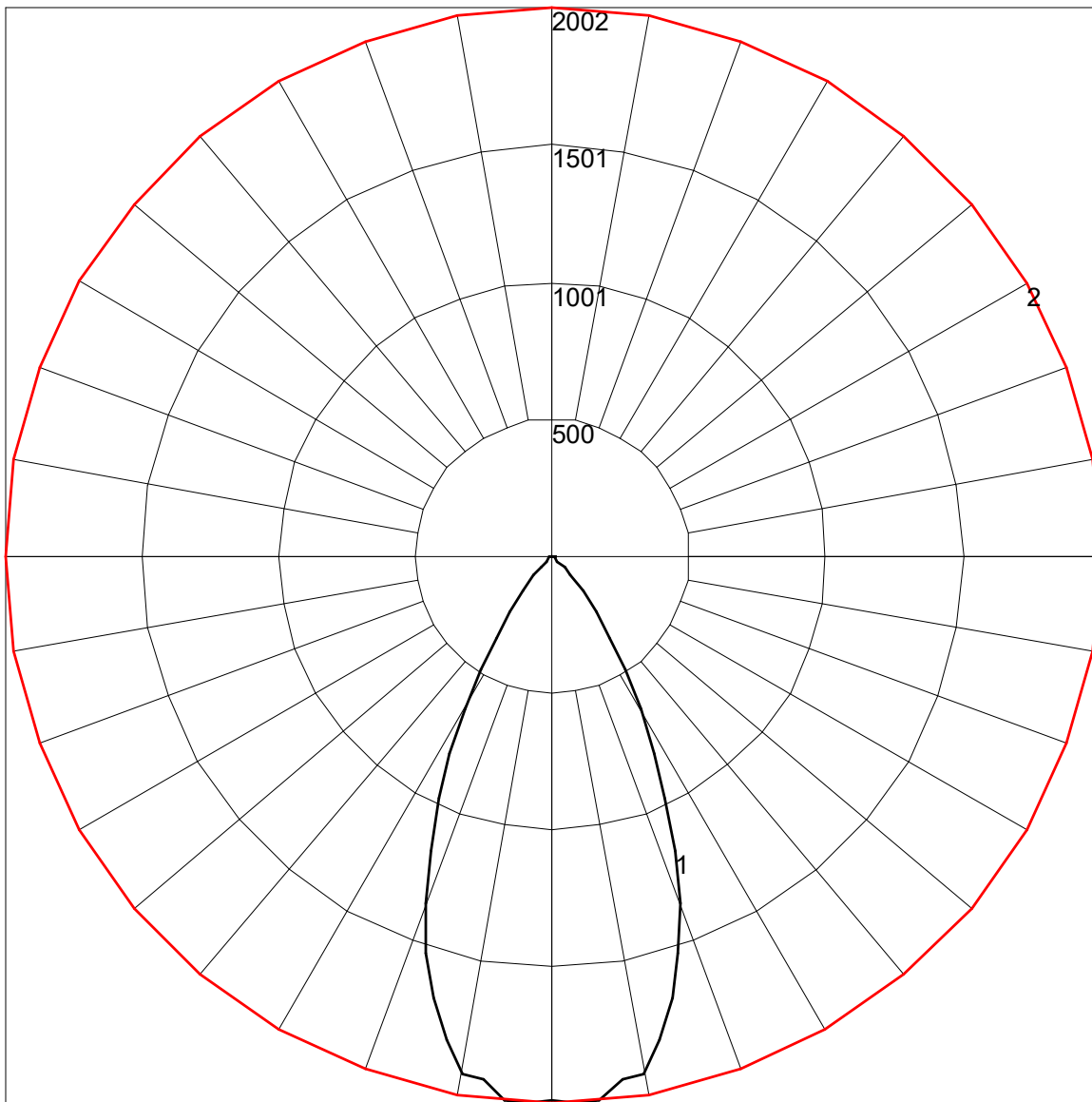
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UGR TABLE - CORRECTED

| | | | | | | | | | | | |
|----------------|------|----------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|
| 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 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 3H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 4H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 6H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 8H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 12H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 4H | 2H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 3H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 4H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 6H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 8H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 12H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 8H | 4H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 6H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 8H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 12H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| 12H | 4H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 6H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| | 8H | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |

Maximum UGR = 4.3

POLAR GRAPH



Maximum Candela = 2001.533 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.)