

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : DRCHTVLO5KAC16.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] Report # 72194917-02  
[TESTLAB] TUV SUD America  
[ISSUEDATE] 11/27/2023 3:40:32 PM  
[MANUFAC] BEGHELLI  
[LUMCAT] INDOOR / LOW / HIGH BAY LUMINAIRE  
[LUMINAIRE] DRCHTVLO5KAC16120-277V  
[ AMBIENT] 24.3 deg C  
[ POWERFACTOR] 0.995  
[ ATHD] 6.51%  
[ CURRENT] 0.74  
[ VOLTAGE] 119.98  
[ STABILIZATION] 74:04.9 Stable  
[ POWER VARIATION] 0.13%  
[ LIGHT VARIATION] 0.50%  
[ Lumens] 4314

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 4314                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 144                 |
| Total Luminaire Watts           | 30                  |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 0.46                |
| Spacing Criterion (90-270)      | 0.46                |
| Spacing Criterion (Diagonal)    | 0.62                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 1.35 ft             |
| Luminous Width (90-270)         | 1.35 ft             |
| Luminous Height                 | 0.93 ft             |

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**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 2351             | 2011              | 2351              |
| 55                  | 1431             | 1187              | 1431              |
| 65                  | 641              | 514               | 641               |
| 75                  | 461              | 355               | 461               |
| 85                  | 74               | 54                | 74                |

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CANDELA TABULATION

|     | <u>0</u> |
|-----|----------|
| 0   | 6985.46  |
| 5   | 5646.30  |
| 10  | 4566.77  |
| 15  | 3207.38  |
| 20  | 2537.38  |
| 25  | 2152.88  |
| 30  | 1959.01  |
| 35  | 1605.49  |
| 40  | 568.31   |
| 45  | 476.57   |
| 50  | 409.91   |
| 55  | 276.29   |
| 60  | 258.28   |
| 65  | 113.95   |
| 70  | 66.73    |
| 75  | 72.34    |
| 80  | 29.08    |
| 85  | 9.66     |
| 90  | 9.26     |
| 95  | 7.66     |
| 100 | 11.19    |
| 105 | 11.02    |
| 110 | 14.35    |
| 115 | 18.40    |
| 120 | 14.88    |
| 125 | 15.80    |
| 130 | 18.77    |
| 135 | 17.76    |
| 140 | 21.56    |
| 145 | 16.87    |
| 150 | 19.15    |
| 155 | 21.28    |
| 160 | 28.03    |
| 165 | 33.86    |
| 170 | 37.17    |
| 175 | 37.25    |
| 180 | 35.41    |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1450.97 | N.A.  | 33.60  |
| 0-30    | 2463.25 | N.A.  | 57.10  |
| 0-40    | 3350.83 | N.A.  | 77.70  |
| 0-60    | 3996.19 | N.A.  | 92.60  |
| 0-80    | 4195.92 | N.A.  | 97.30  |
| 0-90    | 4211.63 | N.A.  | 97.60  |
| 10-90   | 3695.27 | N.A.  | 85.60  |
| 20-40   | 1899.86 | N.A.  | 44.00  |
| 20-50   | 2272.46 | N.A.  | 52.70  |
| 40-70   | 781.60  | N.A.  | 18.10  |
| 60-80   | 199.73  | N.A.  | 4.60   |
| 70-80   | 63.49   | N.A.  | 1.50   |
| 80-90   | 15.71   | N.A.  | 0.40   |
| 90-110  | 22.33   | N.A.  | 0.50   |
| 90-120  | 38.71   | N.A.  | 0.90   |
| 90-130  | 53.32   | N.A.  | 1.20   |
| 90-150  | 79.70   | N.A.  | 1.80   |
| 90-180  | 102.83  | N.A.  | 2.40   |
| 110-180 | 80.50   | N.A.  | 1.90   |
| 0-180   | 4314.46 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 516.36  |
| 10-20   | 934.61  |
| 20-30   | 1012.28 |
| 30-40   | 887.58  |
| 40-50   | 372.59  |
| 50-60   | 272.77  |
| 60-70   | 136.24  |
| 70-80   | 63.49   |
| 80-90   | 15.71   |
| 90-100  | 9.75    |
| 100-110 | 12.57   |
| 110-120 | 16.38   |
| 120-130 | 14.61   |
| 130-140 | 14.66   |
| 140-150 | 11.72   |
| 150-160 | 10.29   |
| 160-170 | 9.31    |
| 170-180 | 3.53    |

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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  | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1  | 112 | 109 | 106 | 103 | 109 | 106 | 104 | 101 | 102 | 100 | 98  | 97  | 96  | 94  | 94  | 92  | 91  | 89 |
| 2  | 105 | 100 | 95  | 91  | 103 | 98  | 93  | 90  | 94  | 90  | 87  | 90  | 88  | 85  | 87  | 85  | 83  | 81 |
| 3  | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 80  | 87  | 82  | 79  | 84  | 80  | 77  | 81  | 78  | 76  | 74 |
| 4  | 93  | 85  | 78  | 73  | 91  | 83  | 77  | 73  | 81  | 76  | 72  | 78  | 74  | 71  | 76  | 73  | 70  | 68 |
| 5  | 88  | 78  | 72  | 67  | 86  | 77  | 71  | 67  | 75  | 70  | 66  | 73  | 69  | 65  | 71  | 67  | 64  | 62 |
| 6  | 83  | 73  | 66  | 62  | 81  | 72  | 66  | 61  | 70  | 65  | 61  | 69  | 64  | 60  | 67  | 63  | 59  | 58 |
| 7  | 79  | 68  | 62  | 57  | 77  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 63  | 59  | 55  | 54 |
| 8  | 74  | 64  | 58  | 53  | 73  | 63  | 57  | 53  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 50 |
| 9  | 71  | 60  | 54  | 50  | 69  | 60  | 54  | 49  | 59  | 53  | 49  | 57  | 52  | 49  | 56  | 52  | 49  | 47 |
| 10 | 67  | 57  | 51  | 47  | 66  | 56  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 46  | 54  | 49  | 46  | 44 |

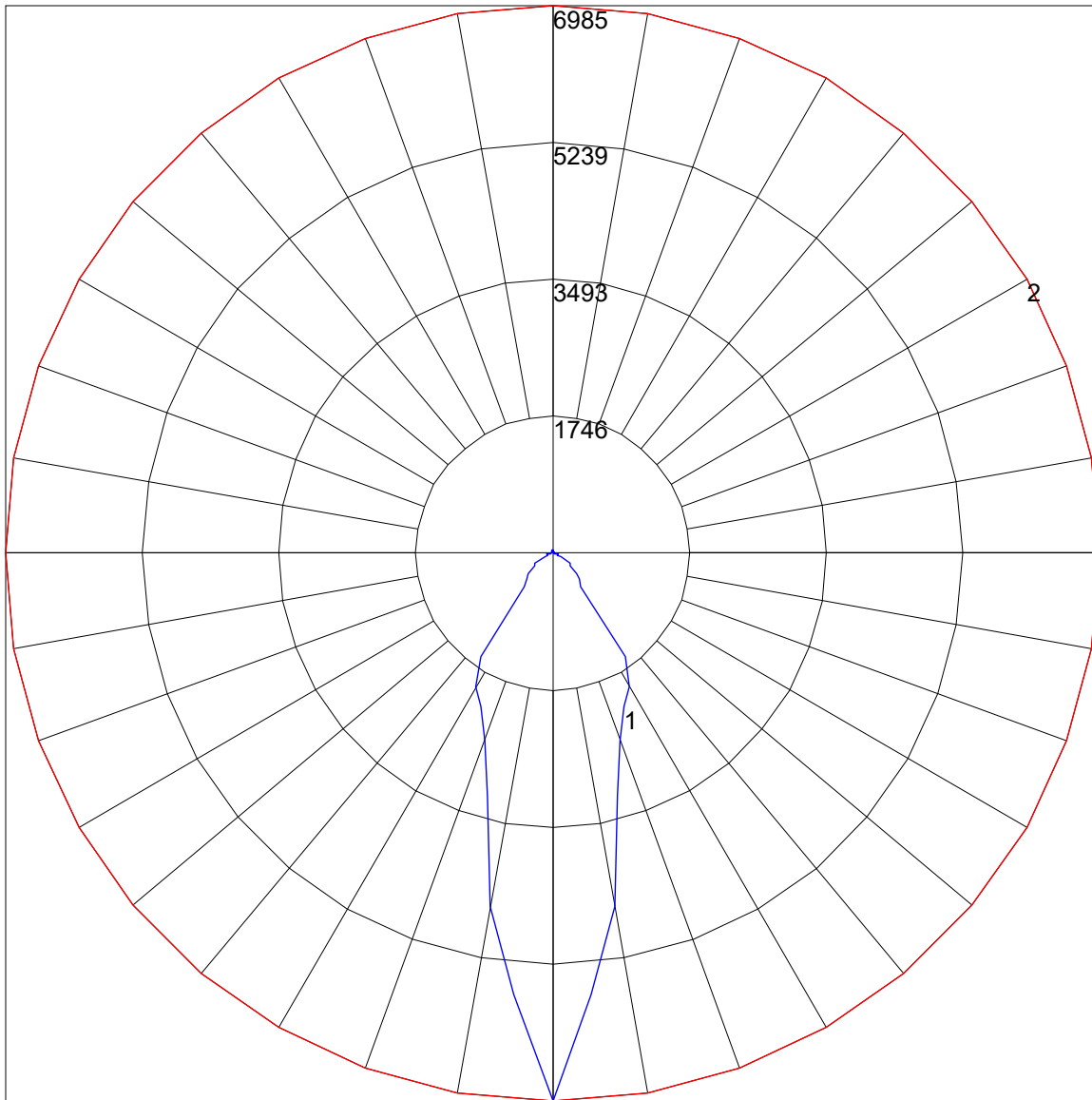
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**UGR TABLE - CORRECTED**

| 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 | 10.0                 | 11.2 | 10.4 | 11.5 | 11.9 | 10.0               | 11.2 | 10.4 | 11.5 | 11.9 |
|                | 3H   | 10.3                 | 11.3 | 10.7 | 11.7 | 12.1 | 10.3               | 11.3 | 10.7 | 11.7 | 12.1 |
|                | 4H   | 10.5                 | 11.5 | 11.0 | 11.8 | 12.3 | 10.5               | 11.5 | 11.0 | 11.8 | 12.3 |
|                | 6H   | 10.6                 | 11.4 | 11.0 | 11.8 | 12.3 | 10.6               | 11.4 | 11.0 | 11.8 | 12.3 |
|                | 8H   | 10.5                 | 11.4 | 11.0 | 11.8 | 12.3 | 10.5               | 11.4 | 11.0 | 11.8 | 12.3 |
|                | 12H  | 10.5                 | 11.3 | 11.0 | 11.7 | 12.2 | 10.5               | 11.3 | 11.0 | 11.7 | 12.2 |
| 4H             | 2H   | 10.0                 | 11.0 | 10.5 | 11.4 | 11.8 | 10.0               | 11.0 | 10.5 | 11.4 | 11.8 |
|                | 3H   | 10.4                 | 11.2 | 10.8 | 11.6 | 12.1 | 10.4               | 11.2 | 10.8 | 11.6 | 12.1 |
|                | 4H   | 10.7                 | 11.4 | 11.2 | 11.9 | 12.4 | 10.7               | 11.4 | 11.2 | 11.9 | 12.4 |
|                | 6H   | 10.8                 | 11.4 | 11.3 | 11.9 | 12.4 | 10.8               | 11.4 | 11.3 | 11.9 | 12.4 |
|                | 8H   | 10.8                 | 11.4 | 11.3 | 11.8 | 12.4 | 10.8               | 11.4 | 11.3 | 11.8 | 12.4 |
|                | 12H  | 10.8                 | 11.3 | 11.3 | 11.8 | 12.3 | 10.8               | 11.3 | 11.3 | 11.8 | 12.3 |
| 8H             | 4H   | 10.7                 | 11.3 | 11.2 | 11.7 | 12.3 | 10.7               | 11.3 | 11.2 | 11.7 | 12.3 |
|                | 6H   | 10.8                 | 11.3 | 11.4 | 11.8 | 12.4 | 10.8               | 11.3 | 11.4 | 11.8 | 12.4 |
|                | 8H   | 10.8                 | 11.2 | 11.4 | 11.8 | 12.3 | 10.8               | 11.2 | 11.4 | 11.8 | 12.3 |
|                | 12H  | 10.8                 | 11.2 | 11.4 | 11.7 | 12.3 | 10.8               | 11.2 | 11.4 | 11.7 | 12.3 |
| 12H            | 4H   | 10.6                 | 11.1 | 11.2 | 11.7 | 12.2 | 10.6               | 11.1 | 11.2 | 11.7 | 12.2 |
|                | 6H   | 10.8                 | 11.2 | 11.4 | 11.7 | 12.3 | 10.8               | 11.2 | 11.4 | 11.7 | 12.3 |
|                | 8H   | 10.8                 | 11.2 | 11.4 | 11.7 | 12.3 | 10.8               | 11.2 | 11.4 | 11.7 | 12.3 |

Maximum UGR = 12.4

POLAR GRAPH



Maximum Candela = 6985.46 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)