



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P4020-LED35-HO-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] L041505601  
 [TESTLAB] LIGHT LABORATORY, INC.  
 [ISSUE DATE] 4/20/2015  
 [MANUFAC] PRUDENTIAL LTG.  
 [LUMCAT] P4020-LED35-HO-D1  
 [LUMINAIRE] 26-1/4"DIA. X 5"H. LED LUMINAIRE  
 [MORE] DIFFUSED LENS  
 [BALLASTCAT] OSRAM OPTOTRONIC  
 [BALLAST] INPUT: 120-277VAC  
 [LAMPPOSITION] 0,0  
 [LAMPCAT] N/A  
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND  
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.  
 [ INPUT] 120VAC  
 [ TEST PROCEDURE] IESNA:LM-79-08

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 7006               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 72                 |
| Total Luminaire Watts           | 97                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 1.26               |
| Spacing Criterion (90-270)      | 1.26               |
| Spacing Criterion (Diagonal)    | 1.36               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 2.04 ft (Diameter) |
| Luminous Width (90-270)         | 2.04 ft (Diameter) |
| Luminous Height                 | 0.00 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                  | 7585             | 7585              | 7585              |
| 55                  | 7256             | 7256              | 7256              |
| 65                  | 6868             | 6868              | 6868              |
| 75                  | 5705             | 5705              | 5705              |
| 85                  | 3571             | 3571              | 3571              |

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CANDELA TABULATION

|    | <u>0</u> |
|----|----------|
| 0  | 2499.2   |
| 5  | 2483.8   |
| 10 | 2448.6   |
| 15 | 2387.0   |
| 20 | 2307.8   |
| 25 | 2204.4   |
| 30 | 2085.6   |
| 35 | 1949.2   |
| 40 | 1797.4   |
| 45 | 1630.2   |
| 50 | 1454.2   |
| 55 | 1265.0   |
| 60 | 1089.0   |
| 65 | 882.2    |
| 70 | 664.4    |
| 75 | 448.8    |
| 80 | 248.6    |
| 85 | 94.6     |
| 90 | 0.0      |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 909.78  | N.A.  | 13.00  |
| 0-30    | 1925.93 | N.A.  | 27.50  |
| 0-40    | 3145.17 | N.A.  | 44.90  |
| 0-60    | 5538.44 | N.A.  | 79.10  |
| 0-80    | 6886.82 | N.A.  | 98.30  |
| 0-90    | 7005.98 | N.A.  | 100.00 |
| 10-90   | 6769.96 | N.A.  | 96.60  |
| 20-40   | 2235.39 | N.A.  | 31.90  |
| 20-50   | 3493.29 | N.A.  | 49.90  |
| 40-70   | 3264.07 | N.A.  | 46.60  |
| 60-80   | 1348.39 | N.A.  | 19.20  |
| 70-80   | 477.58  | N.A.  | 6.80   |
| 80-90   | 119.16  | N.A.  | 1.70   |
| 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   | 7005.98 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 236.02  |
| 10-20   | 673.76  |
| 20-30   | 1016.15 |
| 30-40   | 1219.24 |
| 40-50   | 1257.9  |
| 50-60   | 1135.37 |
| 60-70   | 870.81  |
| 70-80   | 477.58  |
| 80-90   | 119.16  |
| 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    |

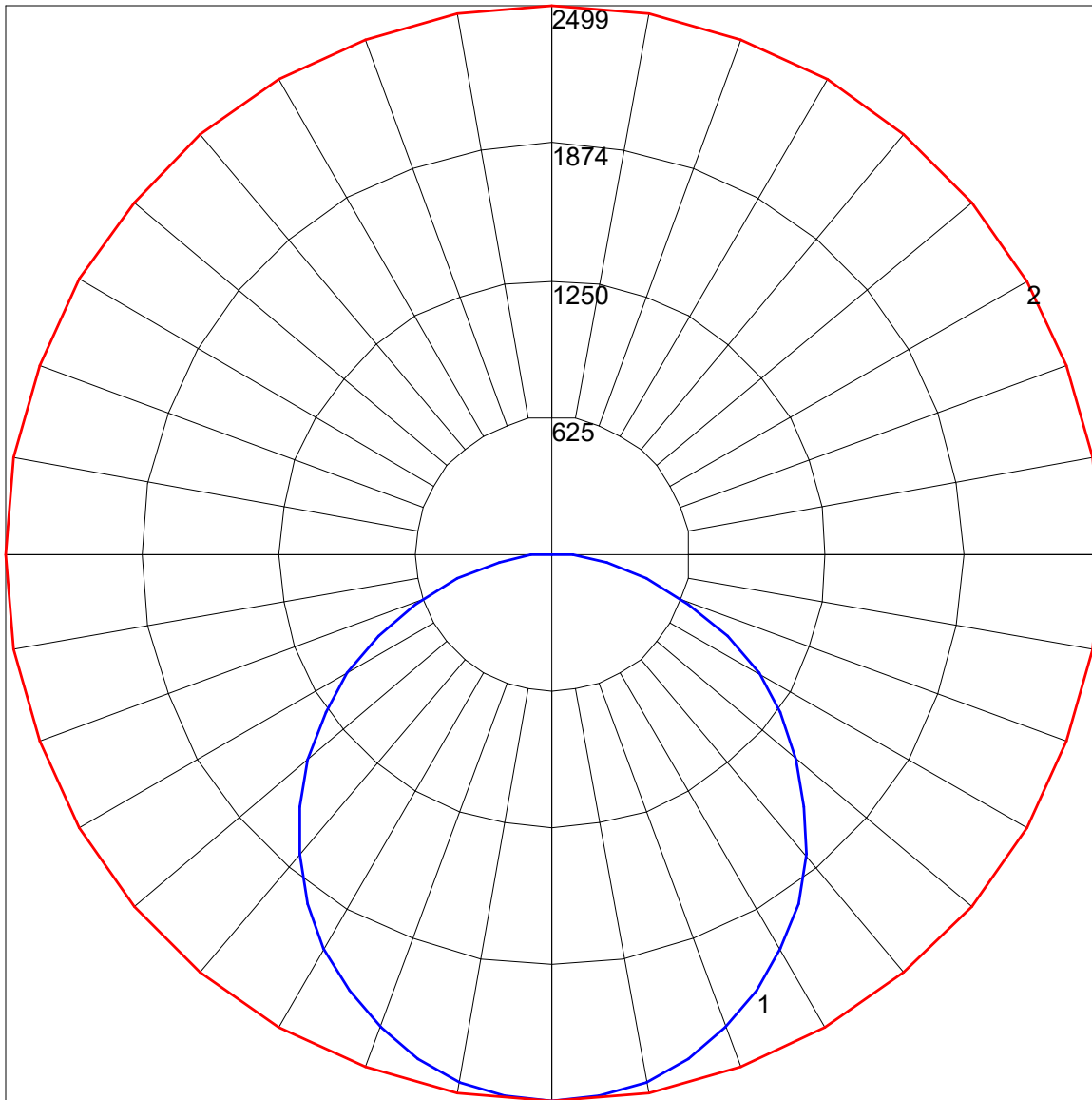
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |
| 2  | 99  | 91  | 84  | 78  | 96  | 89  | 82  | 77  | 85  | 80  | 75  | 82  | 77  | 74  | 79  | 75  | 72  | 70  |
| 3  | 90  | 80  | 71  | 65  | 88  | 78  | 70  | 64  | 75  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 61  | 59  |
| 4  | 82  | 70  | 62  | 55  | 80  | 69  | 61  | 54  | 67  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 52  | 50  |
| 5  | 76  | 63  | 54  | 47  | 74  | 62  | 53  | 47  | 60  | 52  | 46  | 58  | 51  | 46  | 56  | 50  | 45  | 43  |
| 6  | 70  | 57  | 48  | 41  | 68  | 56  | 47  | 41  | 54  | 46  | 41  | 52  | 45  | 40  | 51  | 45  | 40  | 38  |
| 7  | 65  | 51  | 43  | 36  | 63  | 51  | 42  | 36  | 49  | 41  | 36  | 48  | 41  | 36  | 46  | 40  | 35  | 33  |
| 8  | 60  | 47  | 38  | 32  | 59  | 46  | 38  | 32  | 45  | 37  | 32  | 44  | 37  | 32  | 42  | 36  | 32  | 30  |
| 9  | 56  | 43  | 35  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 34  | 29  | 39  | 33  | 29  | 27  |
| 10 | 53  | 40  | 32  | 26  | 52  | 39  | 32  | 26  | 38  | 31  | 26  | 37  | 31  | 26  | 36  | 30  | 26  | 24  |

POLAR GRAPH



Maximum Candela = 2499.2 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.)