

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : P4018-LED35-MO-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] L041505601  
[TESTLAB] LIGHT LABORATORY, INC.  
[ISSUE DATE]  
[MANUFAC] PRUDENTIAL LTG.  
[LUMCAT] P3918 or 4018-LED35-MO-D1  
[LUMINAIRE] 19-1/4"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.

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 2388               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 75                 |
| Total Luminaire Watts           | 32                 |
| 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            |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 2586             | 2586              | 2586              |
| 55                  | 2474             | 2474              | 2474              |
| 65                  | 2341             | 2341              | 2341              |
| 75                  | 1945             | 1945              | 1945              |
| 85                  | 1217             | 1217              | 1217              |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : P4018-LED35-MO-D1.IES

CANDELA TABULATION

|    | <u>0</u> |
|----|----------|
| 0  | 852.00   |
| 5  | 846.75   |
| 10 | 834.75   |
| 15 | 813.75   |
| 20 | 786.75   |
| 25 | 751.50   |
| 30 | 711.00   |
| 35 | 664.50   |
| 40 | 612.75   |
| 45 | 555.75   |
| 50 | 495.75   |
| 55 | 431.25   |
| 60 | 371.25   |
| 65 | 300.75   |
| 70 | 226.50   |
| 75 | 153.00   |
| 80 | 84.75    |
| 85 | 32.25    |
| 90 | 0.00     |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P4018-LED35-MO-D1.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 310.15  | N.A.  | 13.00  |
| 0-30    | 656.57  | N.A.  | 27.50  |
| 0-40    | 1072.22 | N.A.  | 44.90  |
| 0-60    | 1888.1  | N.A.  | 79.10  |
| 0-80    | 2347.78 | N.A.  | 98.30  |
| 0-90    | 2388.4  | N.A.  | 100.00 |
| 10-90   | 2307.94 | N.A.  | 96.60  |
| 20-40   | 762.07  | N.A.  | 31.90  |
| 20-50   | 1190.89 | N.A.  | 49.90  |
| 40-70   | 1112.75 | N.A.  | 46.60  |
| 60-80   | 459.68  | N.A.  | 19.20  |
| 70-80   | 162.81  | N.A.  | 6.80   |
| 80-90   | 40.62   | 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   | 2388.4  | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 80.46  |
| 10-20   | 229.69 |
| 20-30   | 346.41 |
| 30-40   | 415.65 |
| 40-50   | 428.83 |
| 50-60   | 387.06 |
| 60-70   | 296.87 |
| 70-80   | 162.81 |
| 80-90   | 40.62  |
| 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   |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P4018-LED35-MO-D1.IES**

**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  | 98  | 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  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : P4018-LED35-MO-D1.IES**

**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 | 14.5 | 16.1 | 14.9 | 16.4 | 16.8 | UGR Viewed Endwise | 14.5 | 16.1 | 14.9 | 16.4 | 16.8 |
|      | 3H   | 16.3 | 17.8 | 16.7 | 18.1 | 18.5 |                    | 16.3 | 17.8 | 16.7 | 18.1 | 18.5 |
|      | 4H   | 16.9 | 18.3 | 17.3 | 18.7 | 19.0 |                    | 16.9 | 18.3 | 17.3 | 18.7 | 19.0 |
|      | 6H   | 17.3 | 18.6 | 17.8 | 19.0 | 19.4 |                    | 17.3 | 18.6 | 17.8 | 19.0 | 19.4 |
|      | 8H   | 17.4 | 18.7 | 17.9 | 19.1 | 19.5 |                    | 17.4 | 18.7 | 17.9 | 19.1 | 19.5 |
|      | 12H  | 17.5 | 18.7 | 18.0 | 19.1 | 19.5 |                    | 17.5 | 18.7 | 18.0 | 19.1 | 19.5 |

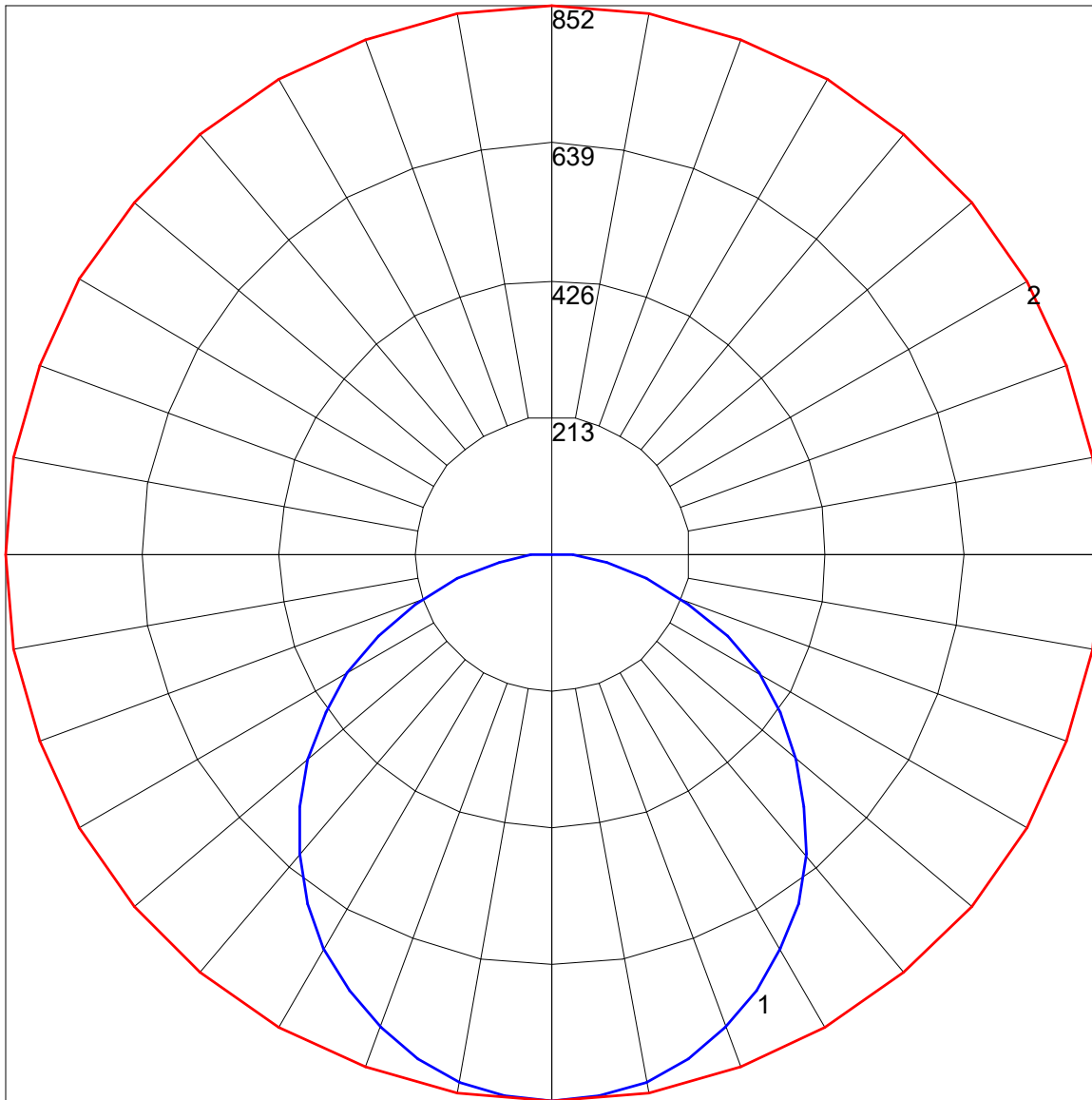
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 15.2 | 16.5 | 15.6 | 16.9 | 17.3 | 15.2 | 16.5 | 15.6 | 16.9 | 17.3 |
|    | 3H  | 17.1 | 18.3 | 17.6 | 18.7 | 19.1 | 17.1 | 18.3 | 17.6 | 18.7 | 19.1 |
|    | 4H  | 17.9 | 18.9 | 18.3 | 19.4 | 19.8 | 17.9 | 18.9 | 18.3 | 19.4 | 19.8 |
|    | 6H  | 18.4 | 19.3 | 18.9 | 19.8 | 20.2 | 18.4 | 19.3 | 18.9 | 19.8 | 20.2 |
|    | 8H  | 18.6 | 19.4 | 19.0 | 19.9 | 20.3 | 18.6 | 19.4 | 19.0 | 19.9 | 20.3 |
|    | 12H | 18.7 | 19.5 | 19.2 | 19.9 | 20.4 | 18.7 | 19.5 | 19.2 | 19.9 | 20.4 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 18.2 | 19.0 | 18.6 | 19.5 | 19.9 | 18.2 | 19.0 | 18.6 | 19.5 | 19.9 |
|    | 6H  | 18.8 | 19.5 | 19.3 | 20.0 | 20.5 | 18.8 | 19.5 | 19.3 | 20.0 | 20.5 |
|    | 8H  | 19.0 | 19.7 | 19.5 | 20.2 | 20.7 | 19.0 | 19.7 | 19.5 | 20.2 | 20.7 |
|    | 12H | 19.2 | 19.8 | 19.7 | 20.2 | 20.8 | 19.2 | 19.8 | 19.7 | 20.2 | 20.8 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 18.2 | 19.0 | 18.7 | 19.5 | 19.9 | 18.2 | 19.0 | 18.7 | 19.5 | 19.9 |
|     | 6H | 18.9 | 19.5 | 19.4 | 20.0 | 20.5 | 18.9 | 19.5 | 19.4 | 20.0 | 20.5 |
|     | 8H | 19.1 | 19.7 | 19.6 | 20.2 | 20.7 | 19.1 | 19.7 | 19.6 | 20.2 | 20.7 |

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 852 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.)