

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00424_22 ~ C1320XT-80LXXK-MDEX-1310XT-SGXXMW.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] SP-00424_22

 [TESTLAB] Photopia 2015.1.1 see: www.ltioptics.com/ies

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 4/29/2017

[UPDATE] 9/29/2017

[LUMCAT] C1320XT-80L-xxK-MD-EX-1310XT-SG

[LUMINAIRE] Nom. 13" Diam. x 20" H Cylinder Downlight Pendant, Medium Beam

[OTHER] Nom. 12" Diam. Spun Alum. Bezel, Semi-Diffuse Clear anodized finish

[OTHER] Matte Black regressed faceplate w/ (4) openings for LEDXT optics

[OTHER] Four (4) LEDXT Reflector modules per Luminaire

[OTHER] Photometric data applicable to C1320XT (pendant), C1320XT (wall mounted)

[OTHER] and CYK1320XT (yoke mounted) luminaires

[OTHER] 38 Degree Beam Angle, 98 Degree Field Angle

[LAMP] N/A, 19mm

[LAMPCAT] N/A, Min.83 CRI

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available CCT's

[OTHER] This report prepared by Spectrum Lighting

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 7308 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 77 |
| Total Luminaire Watts | 94.8 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.60 |
| Spacing Criterion (90-270) | 0.60 |
| Spacing Criterion (Diagonal) | 0.74 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 1.00 ft (Diameter) |
| Luminous Width (90-270) | 1.00 ft (Diameter) |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_22 ~ C1320XT-80LXXK-MDEX-1310XT-SGXXMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 32544 | 32212 | 31507 |
| 55 | 2237 | 2981 | 2170 |
| 65 | 13 | 5 | 0 |
| 75 | 0 | 3 | 0 |
| 85 | 0 | 13 | 0 |

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CANDELA TABULATION

| | <u>0</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 9992.96 | 9992.96 | 9992.96 | 9992.96 | 9992.96 | 9992.96 | 9992.96 | 9992.96 | 9992.96 | 9992.96 |
| 5 | 9390.97 | 9166.21 | 9111.81 | 9225.07 | 9108.09 | 9205.64 | 9103.84 | 9216.60 | 9121.57 | 9335.26 |
| 10 | 7867.51 | 7923.14 | 7931.82 | 7990.69 | 7858.60 | 7890.59 | 7868.21 | 7958.90 | 7883.76 | 7860.16 |
| 15 | 6046.12 | 5957.79 | 5935.43 | 5936.08 | 5930.45 | 6034.83 | 5961.36 | 5874.97 | 5900.47 | 5850.52 |
| 20 | 4694.20 | 4676.32 | 4689.56 | 4748.38 | 4817.40 | 4728.92 | 4689.48 | 4690.02 | 4700.62 | 4693.69 |
| 25 | 3898.28 | 3926.80 | 3912.95 | 3926.55 | 3952.40 | 3964.83 | 3955.23 | 3957.74 | 3916.91 | 3940.16 |
| 30 | 3028.58 | 3082.41 | 3093.64 | 3071.19 | 3072.51 | 3085.84 | 3075.10 | 3059.57 | 3048.37 | 3072.82 |
| 35 | 2428.59 | 2452.06 | 2452.29 | 2449.61 | 2441.89 | 2464.01 | 2440.02 | 2461.89 | 2469.59 | 2477.02 |
| 40 | 2143.09 | 2155.48 | 2170.02 | 2140.69 | 2136.36 | 2100.52 | 2121.69 | 2145.46 | 2146.70 | 2189.67 |
| 45 | 1680.66 | 1646.30 | 1655.97 | 1673.92 | 1649.55 | 1652.48 | 1656.75 | 1688.63 | 1673.95 | 1663.54 |
| 50 | 669.69 | 668.80 | 677.76 | 696.00 | 723.46 | 735.44 | 744.36 | 728.61 | 764.39 | 780.89 |
| 55 | 93.73 | 83.52 | 85.33 | 89.40 | 89.97 | 103.98 | 97.31 | 112.63 | 115.80 | 124.87 |
| 60 | 0.49 | 0.78 | 0.64 | 0.70 | 1.01 | 0.75 | 1.06 | 0.63 | 1.81 | 0.99 |
| 65 | 0.39 | 0.11 | 0.14 | 0.30 | 0.30 | 0.59 | 0.10 | 0.44 | 0.41 | 0.16 |
| 70 | 0.15 | 0.20 | 0.13 | 0.17 | 0.13 | 0.24 | 0.16 | 0.17 | 0.09 | 0.23 |
| 75 | 0.00 | 0.05 | 0.06 | 0.33 | 0.27 | 0.10 | 0.16 | 0.16 | 0.17 | 0.05 |
| 80 | 0.17 | 0.15 | 0.00 | 0.11 | 0.01 | 0.34 | 0.08 | 0.32 | 0.10 | 0.48 |
| 85 | 0.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.08 | 0.08 | 0.25 | 0.16 | 0.08 |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.00 | 0.00 | 0.00 | 0.16 |

Vert. Angles

Horizontal Angles

| | <u>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 9992.96 | 9992.96 | 9992.96 | 9992.96 | 9992.96 | 9992.96 | 9992.96 | 9992.96 | 9992.96 |
| 5 | 9009.74 | 9346.46 | 9007.49 | 9139.53 | 9131.03 | 9253.09 | 9147.53 | 9157.46 | 9373.11 |
| 10 | 8006.78 | 7848.80 | 7899.42 | 7946.13 | 8059.17 | 7980.08 | 8031.91 | 7817.01 | 8134.52 |
| 15 | 5834.38 | 5902.12 | 5910.28 | 5949.82 | 5923.17 | 5904.58 | 5976.58 | 5984.82 | 5928.86 |
| 20 | 4719.36 | 4680.96 | 4722.28 | 4681.52 | 4708.25 | 4772.91 | 4793.77 | 4693.18 | 4708.01 |
| 25 | 3978.25 | 3915.33 | 3939.96 | 3987.41 | 3962.71 | 3909.22 | 3944.77 | 3893.23 | 3962.21 |
| 30 | 3051.06 | 3064.09 | 3072.54 | 3048.96 | 3039.96 | 3040.09 | 3109.90 | 3039.68 | 3048.30 |
| 35 | 2468.79 | 2510.41 | 2459.02 | 2436.32 | 2458.90 | 2489.06 | 2476.54 | 2471.28 | 2505.69 |
| 40 | 2139.21 | 2144.64 | 2145.55 | 2149.35 | 2133.83 | 2122.50 | 2156.41 | 2151.73 | 2167.01 |
| 45 | 1671.89 | 1668.81 | 1665.58 | 1659.55 | 1659.47 | 1641.02 | 1684.51 | 1650.26 | 1627.11 |
| 50 | 770.59 | 764.51 | 759.18 | 749.57 | 714.31 | 699.09 | 705.00 | 692.51 | 668.85 |
| 55 | 114.71 | 114.32 | 101.68 | 97.93 | 91.46 | 90.36 | 84.63 | 85.88 | 90.92 |
| 60 | 0.64 | 1.09 | 0.56 | 1.01 | 0.54 | 0.53 | 0.43 | 0.38 | 0.62 |
| 65 | 0.31 | 0.34 | 0.53 | 0.38 | 0.48 | 0.39 | 0.30 | 0.28 | 0.00 |
| 70 | 0.50 | 0.25 | 0.17 | 0.60 | 0.31 | 0.10 | 0.14 | 0.08 | 0.01 |
| 75 | 0.00 | 0.08 | 0.12 | 0.38 | 0.07 | 0.11 | 0.11 | 0.16 | 0.00 |
| 80 | 0.00 | 0.15 | 0.08 | 0.08 | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 |
| 85 | 0.08 | 0.08 | 0.06 | 0.08 | 0.08 | 0.00 | 0.08 | 0.00 | 0.00 |
| 90 | 0.00 | 0.15 | 0.00 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_22 ~ C1320XT-80LXXK-MDEX-1310XT-SGXXMW.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 2540.94 | N.A. | 34.80 |
| 0-30 | 4335.3 | N.A. | 59.30 |
| 0-40 | 5918.27 | N.A. | 81.00 |
| 0-60 | 7307.38 | N.A. | 100.00 |
| 0-80 | 7307.94 | N.A. | 100.00 |
| 0-90 | 7308.02 | N.A. | 100.00 |
| 10-90 | 6466.89 | N.A. | 88.50 |
| 20-40 | 3377.34 | N.A. | 46.20 |
| 20-50 | 4564.44 | N.A. | 62.50 |
| 40-70 | 1389.51 | N.A. | 19.00 |
| 60-80 | 0.56 | N.A. | 0.00 |
| 70-80 | 0.15 | N.A. | 0.00 |
| 80-90 | 0.07 | 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 | 7308.02 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 841.13 |
| 10-20 | 1699.81 |
| 20-30 | 1794.36 |
| 30-40 | 1582.97 |
| 40-50 | 1187.1 |
| 50-60 | 202.01 |
| 60-70 | 0.40 |
| 70-80 | 0.15 |
| 80-90 | 0.07 |
| 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

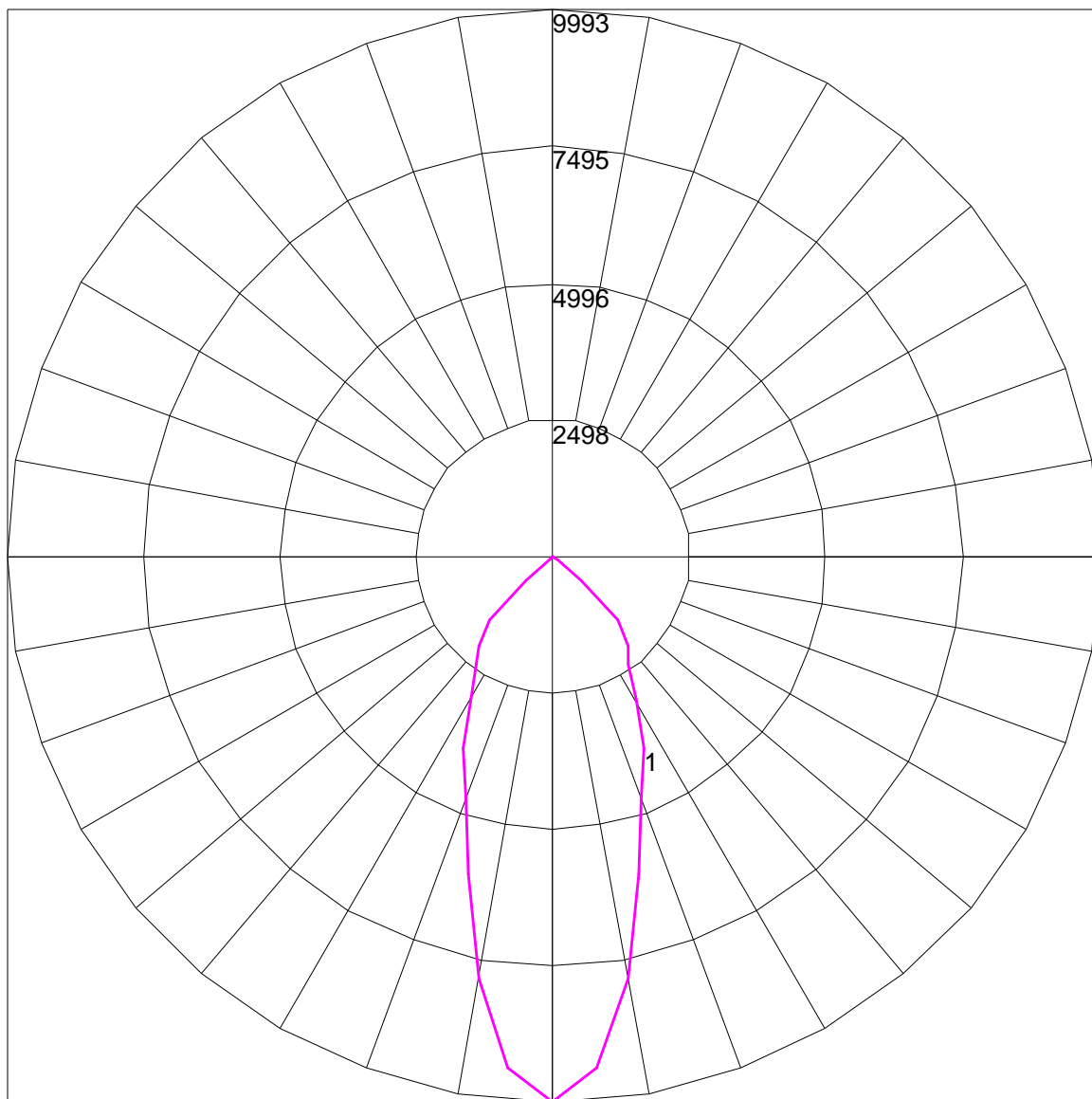
Effective Floor Cavity Reflectance 0.20

| 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 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 96 | 95 | 93 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 85 | 83 | 80 | 78 |
| 4 | 95 | 87 | 81 | 77 | 94 | 86 | 81 | 76 | 84 | 79 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 72 |
| 5 | 90 | 81 | 75 | 70 | 88 | 80 | 74 | 70 | 78 | 73 | 69 | 77 | 72 | 69 | 75 | 71 | 68 | 67 |
| 6 | 85 | 76 | 69 | 65 | 84 | 75 | 69 | 64 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 66 | 63 | 62 |
| 7 | 81 | 71 | 64 | 60 | 79 | 70 | 64 | 60 | 69 | 63 | 59 | 67 | 63 | 59 | 66 | 62 | 59 | 57 |
| 8 | 76 | 66 | 60 | 56 | 75 | 66 | 60 | 55 | 65 | 59 | 55 | 63 | 59 | 55 | 62 | 58 | 55 | 53 |
| 9 | 73 | 62 | 56 | 52 | 71 | 62 | 56 | 52 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 50 |
| 10 | 69 | 59 | 53 | 48 | 68 | 58 | 52 | 48 | 57 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 48 | 47 |

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POLAR GRAPH



Maximum Candela = 9992.96 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)