

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_28 ~ C1320XT-52LXXK-XWEX-1310XT-SGXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_28

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 4/29/2016

[UPDATE] 9/29/2017

[LUMCAT] C1320XT-52L-xxK-XW-EX-1310XT-SG

[LUMINAIRE] Nom. 13" Diam. x 20" H Cylinder Downlight Pendant, Xtra Wide 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] 58 Degree Beam Angle, 99 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 | 4756 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 79 |
| Total Luminaire Watts | 60 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.88 |
| Spacing Criterion (90-270) | 0.88 |
| Spacing Criterion (Diagonal) | 0.94 |
| 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 |

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| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 16963 | 16930 | 16747 |
| 55 | 1161 | 1711 | 1277 |
| 65 | 6 | 3 | 5 |
| 75 | 3 | 4 | 6 |
| 85 | 0 | 0 | 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 | 4553.27 | 4553.27 | 4553.27 | 4553.27 | 4553.27 | 4553.27 | 4553.27 | 4553.27 | 4553.27 | 4553.27 |
| 5 | 4883.69 | 4660.72 | 4659.04 | 4674.79 | 4693.38 | 4737.61 | 4693.79 | 4711.06 | 4697.47 | 4684.59 |
| 10 | 4403.52 | 4397.79 | 4457.91 | 4375.46 | 4444.40 | 4368.80 | 4417.15 | 4403.84 | 4453.32 | 4411.15 |
| 15 | 4034.83 | 4062.65 | 4045.75 | 4013.78 | 4019.02 | 4051.35 | 4026.24 | 4052.30 | 3989.08 | 4024.87 |
| 20 | 3384.07 | 3387.89 | 3345.08 | 3372.51 | 3368.84 | 3352.88 | 3337.20 | 3318.38 | 3335.58 | 3356.76 |
| 25 | 2753.01 | 2805.87 | 2777.70 | 2770.21 | 2786.42 | 2787.50 | 2803.10 | 2785.35 | 2780.75 | 2758.10 |
| 30 | 2245.27 | 2272.27 | 2237.70 | 2259.56 | 2244.35 | 2265.51 | 2261.07 | 2229.61 | 2259.67 | 2250.66 |
| 35 | 1856.71 | 1846.35 | 1867.16 | 1822.63 | 1846.75 | 1842.67 | 1876.97 | 1869.15 | 1863.89 | 1846.93 |
| 40 | 1397.43 | 1386.13 | 1409.26 | 1417.12 | 1415.94 | 1388.19 | 1403.24 | 1400.12 | 1384.60 | 1410.87 |
| 45 | 876.00 | 871.79 | 872.05 | 872.49 | 865.58 | 876.80 | 880.60 | 873.66 | 878.63 | 874.32 |
| 50 | 350.49 | 347.97 | 352.72 | 363.23 | 375.75 | 379.87 | 377.03 | 383.04 | 381.96 | 377.15 |
| 55 | 48.63 | 52.17 | 52.41 | 49.19 | 55.14 | 56.07 | 60.07 | 67.71 | 68.49 | 71.66 |
| 60 | 0.41 | 0.39 | 0.40 | 0.14 | 0.28 | 0.50 | 0.46 | 0.15 | 0.26 | 0.47 |
| 65 | 0.18 | 0.10 | 0.09 | 0.07 | 0.05 | 0.17 | 0.06 | 0.16 | 0.11 | 0.08 |
| 70 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.06 | 0.00 | 0.04 | 0.10 | 0.06 |
| 75 | 0.06 | 0.03 | 0.04 | 0.14 | 0.00 | 0.14 | 0.08 | 0.05 | 0.05 | 0.08 |
| 80 | 0.00 | 0.01 | 0.00 | 0.05 | 0.00 | 0.00 | 0.11 | 0.10 | 0.19 | 0.25 |
| 85 | 0.00 | 0.00 | 0.00 | 0.05 | 0.05 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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 | 4553.27 | 4553.27 | 4553.27 | 4553.27 | 4553.27 | 4553.27 | 4553.27 | 4553.27 | 4553.27 |
| 5 | 4625.46 | 4703.05 | 4769.01 | 4686.12 | 4713.03 | 4740.83 | 4675.13 | 4675.48 | 4608.06 |
| 10 | 4387.94 | 4392.35 | 4383.77 | 4450.17 | 4392.53 | 4397.02 | 4408.44 | 4436.59 | 4446.90 |
| 15 | 4021.78 | 4075.83 | 3976.72 | 4026.31 | 4084.91 | 4033.51 | 4077.09 | 4049.05 | 4056.57 |
| 20 | 3315.35 | 3365.82 | 3321.68 | 3324.49 | 3385.53 | 3410.22 | 3355.25 | 3388.87 | 3375.99 |
| 25 | 2781.28 | 2793.76 | 2803.14 | 2739.00 | 2767.98 | 2751.33 | 2746.96 | 2737.48 | 2820.34 |
| 30 | 2264.33 | 2266.06 | 2263.89 | 2247.45 | 2268.12 | 2264.70 | 2259.58 | 2260.48 | 2272.86 |
| 35 | 1865.73 | 1835.01 | 1848.10 | 1831.41 | 1856.49 | 1836.29 | 1853.46 | 1868.24 | 1899.99 |
| 40 | 1403.86 | 1407.95 | 1402.60 | 1411.31 | 1414.56 | 1396.42 | 1421.71 | 1395.12 | 1405.16 |
| 45 | 884.09 | 891.99 | 866.07 | 877.67 | 877.56 | 883.28 | 873.96 | 864.28 | 864.89 |
| 50 | 380.93 | 381.57 | 377.70 | 378.31 | 374.57 | 356.37 | 359.32 | 344.70 | 356.57 |
| 55 | 68.41 | 65.32 | 56.98 | 59.46 | 55.23 | 49.52 | 53.89 | 55.46 | 53.49 |
| 60 | 0.43 | 0.78 | 0.60 | 0.69 | 0.57 | 0.23 | 0.27 | 0.41 | 0.47 |
| 65 | 0.10 | 0.09 | 0.20 | 0.09 | 0.12 | 0.12 | 0.07 | 0.11 | 0.15 |
| 70 | 0.06 | 0.10 | 0.05 | 0.11 | 0.05 | 0.00 | 0.02 | 0.07 | 0.06 |
| 75 | 0.05 | 0.10 | 0.05 | 0.05 | 0.09 | 0.00 | 0.09 | 0.11 | 0.11 |
| 80 | 0.26 | 0.04 | 0.05 | 0.05 | 0.05 | 0.00 | 0.10 | 0.00 | 0.09 |
| 85 | 0.05 | 0.05 | 0.05 | 0.10 | 0.05 | 0.00 | 0.05 | 0.00 | 0.00 |
| 90 | 0.00 | 0.00 | 0.11 | 0.00 | 0.00 | 0.08 | 0.00 | 0.00 | 0.00 |

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| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1547.00 | N.A. | 32.50 |
| 0-30 | 2827.13 | N.A. | 59.40 |
| 0-40 | 3975.84 | N.A. | 83.60 |
| 0-60 | 4755.82 | N.A. | 100.00 |
| 0-80 | 4756.06 | N.A. | 100.00 |
| 0-90 | 4756.1 | N.A. | 100.00 |
| 10-90 | 4319.68 | N.A. | 90.80 |
| 20-40 | 2428.85 | N.A. | 51.10 |
| 20-50 | 3102.33 | N.A. | 65.20 |
| 40-70 | 780.15 | N.A. | 16.40 |
| 60-80 | 0.24 | N.A. | 0.00 |
| 70-80 | 0.07 | N.A. | 0.00 |
| 80-90 | 0.04 | 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 | 4756.1 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 436.42 |
| 10-20 | 1110.58 |
| 20-30 | 1280.14 |
| 30-40 | 1148.71 |
| 40-50 | 673.48 |
| 50-60 | 106.50 |
| 60-70 | 0.17 |
| 70-80 | 0.07 |
| 80-90 | 0.04 |
| 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

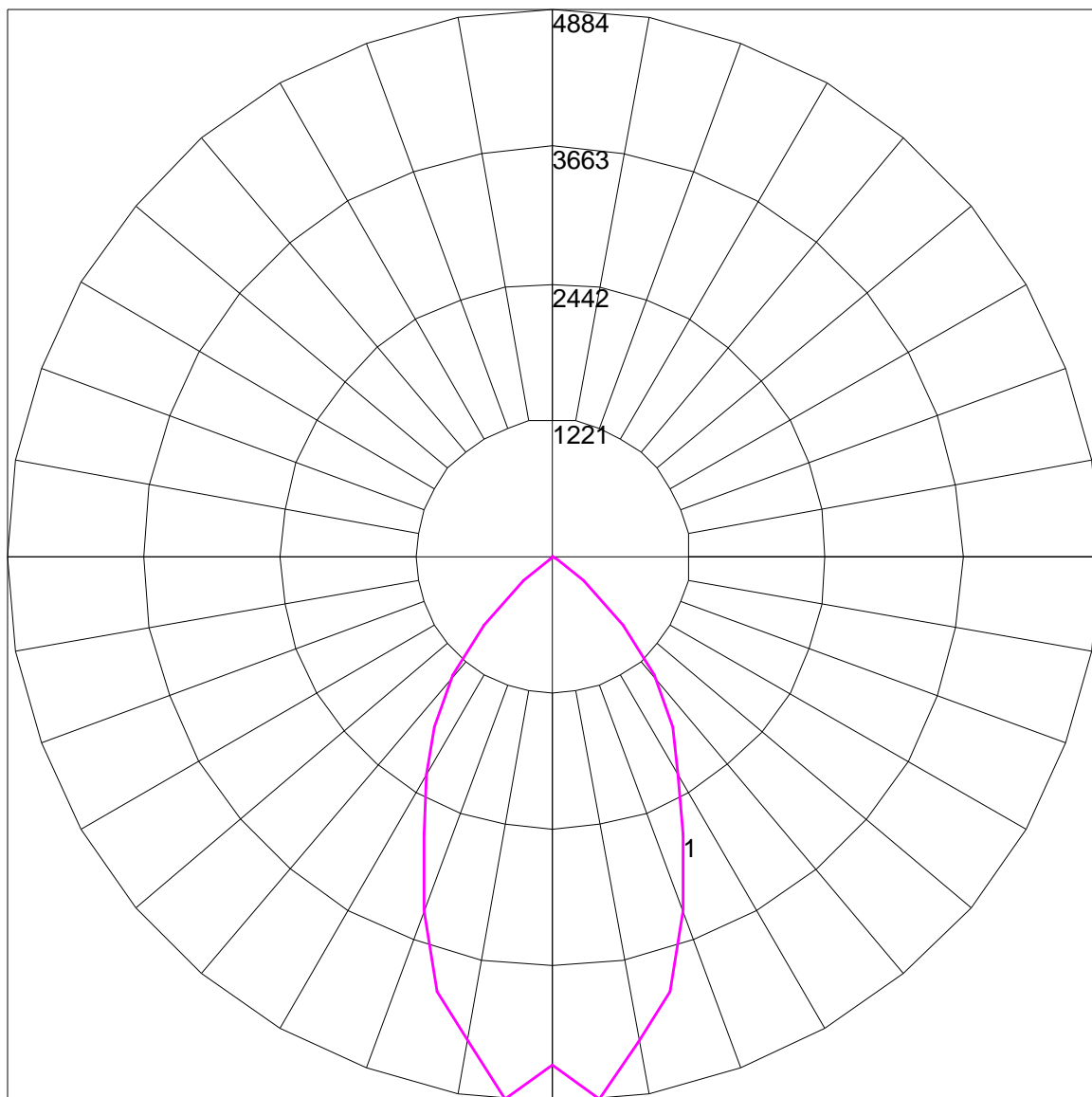
Effective Floor Cavity Reflectance 0.20

| 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 | 82 | 80 | 78 |
| 4 | 95 | 87 | 81 | 77 | 94 | 86 | 81 | 76 | 84 | 79 | 75 | 82 | 78 | 74 | 80 | 76 | 74 | 72 |
| 5 | 90 | 81 | 75 | 70 | 88 | 80 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 69 | 75 | 71 | 68 | 66 |
| 6 | 85 | 75 | 69 | 64 | 83 | 75 | 69 | 64 | 73 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 63 | 61 |
| 7 | 80 | 70 | 64 | 59 | 79 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 58 | 66 | 62 | 58 | 57 |
| 8 | 76 | 66 | 59 | 55 | 75 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 62 | 57 | 54 | 53 |
| 9 | 72 | 62 | 55 | 51 | 71 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 58 | 54 | 50 | 49 |
| 10 | 68 | 58 | 52 | 48 | 67 | 58 | 52 | 48 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 46 |

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POLAR GRAPH



Maximum Candela = 4883.69 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)