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Photometric Test Report

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L051603307.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L051603307
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUEDATE] 5/19/2016
 [MANUFAC] Colt LED
 [LUMCAT] D24X6-GEN3-55W BiColor Fixture
 [LUMINAIRE] 24 Lamp LED Fixture - Tungsten
 [BALLASTCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [REMARK] CANDELA VALUES AND ELECTRICAL DATA ARE PRORATED FROM
 [MORE] LIGHT LABORATORY REPORT L051603303 BY USING THE RATIO OF
 [MORE] TOTAL NUMBER OF LAMPS. RATIO=2.0(24 LAMPS / 12 LAMPS).
 [INPUT] 120VAC, 1229.65W
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 76774 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 62 |
| Total Luminaire Watts | 1229.65 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.22 |
| Spacing Criterion (90-270) | 1.30 |
| Spacing Criterion (Diagonal) | 1.40 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 3.75 ft |
| Luminous Width (90-270) | 3.84 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 16987 | 18220 | 19471 |
| 55 | 15944 | 18283 | 20207 |
| 65 | 14879 | 19328 | 21085 |
| 75 | 12096 | 19257 | 19326 |
| 85 | 6238 | 12099 | 11276 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 25598 | 25598 | 25598 | 25598 | 25598 |
| 5 | 25430 | 25436 | 25462 | 25496 | 25516 |
| 10 | 25014 | 25036 | 25096 | 25162 | 25204 |
| 15 | 24328 | 24378 | 24498 | 24618 | 24670 |
| 20 | 23412 | 23490 | 23688 | 23892 | 23960 |
| 25 | 22268 | 22386 | 22678 | 22984 | 23106 |
| 30 | 20942 | 21102 | 21506 | 21940 | 22106 |
| 35 | 19466 | 19664 | 20200 | 20764 | 21000 |
| 40 | 17842 | 18094 | 18776 | 19480 | 19766 |
| 45 | 16084 | 16398 | 17252 | 18088 | 18436 |
| 50 | 14218 | 14620 | 15664 | 16636 | 17022 |
| 55 | 12246 | 12786 | 14042 | 15108 | 15520 |
| 60 | 10326 | 11030 | 12484 | 13562 | 13896 |
| 65 | 8420 | 9328 | 10938 | 11756 | 11932 |
| 70 | 6308 | 7496 | 9006 | 9372 | 9424 |
| 75 | 4192 | 5674 | 6674 | 6750 | 6698 |
| 80 | 2222 | 3646 | 4066 | 3994 | 3906 |
| 85 | 728 | 1408 | 1412 | 1354 | 1316 |
| 90 | 0 | 0 | 0 | 0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 9332.91 | N.A. | 12.20 |
| 0-30 | 19790.32 | N.A. | 25.80 |
| 0-40 | 32443.32 | N.A. | 42.30 |
| 0-60 | 58262.6 | N.A. | 75.90 |
| 0-80 | 75061.9 | N.A. | 97.80 |
| 0-90 | 76773.88 | N.A. | 100.00 |
| 10-90 | 74354.46 | N.A. | 96.80 |
| 20-40 | 23110.41 | N.A. | 30.10 |
| 20-50 | 36427.93 | N.A. | 47.40 |
| 40-70 | 36180.25 | N.A. | 47.10 |
| 60-80 | 16799.29 | N.A. | 21.90 |
| 70-80 | 6438.33 | N.A. | 8.40 |
| 80-90 | 1711.99 | N.A. | 2.20 |
| 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 | 76773.88 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|----------|
| 0-10 | 2419.42 |
| 10-20 | 6913.49 |
| 20-30 | 10457.42 |
| 30-40 | 12653.00 |
| 40-50 | 13317.52 |
| 50-60 | 12501.76 |
| 60-70 | 10360.97 |
| 70-80 | 6438.33 |
| 80-90 | 1711.99 |
| 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 |

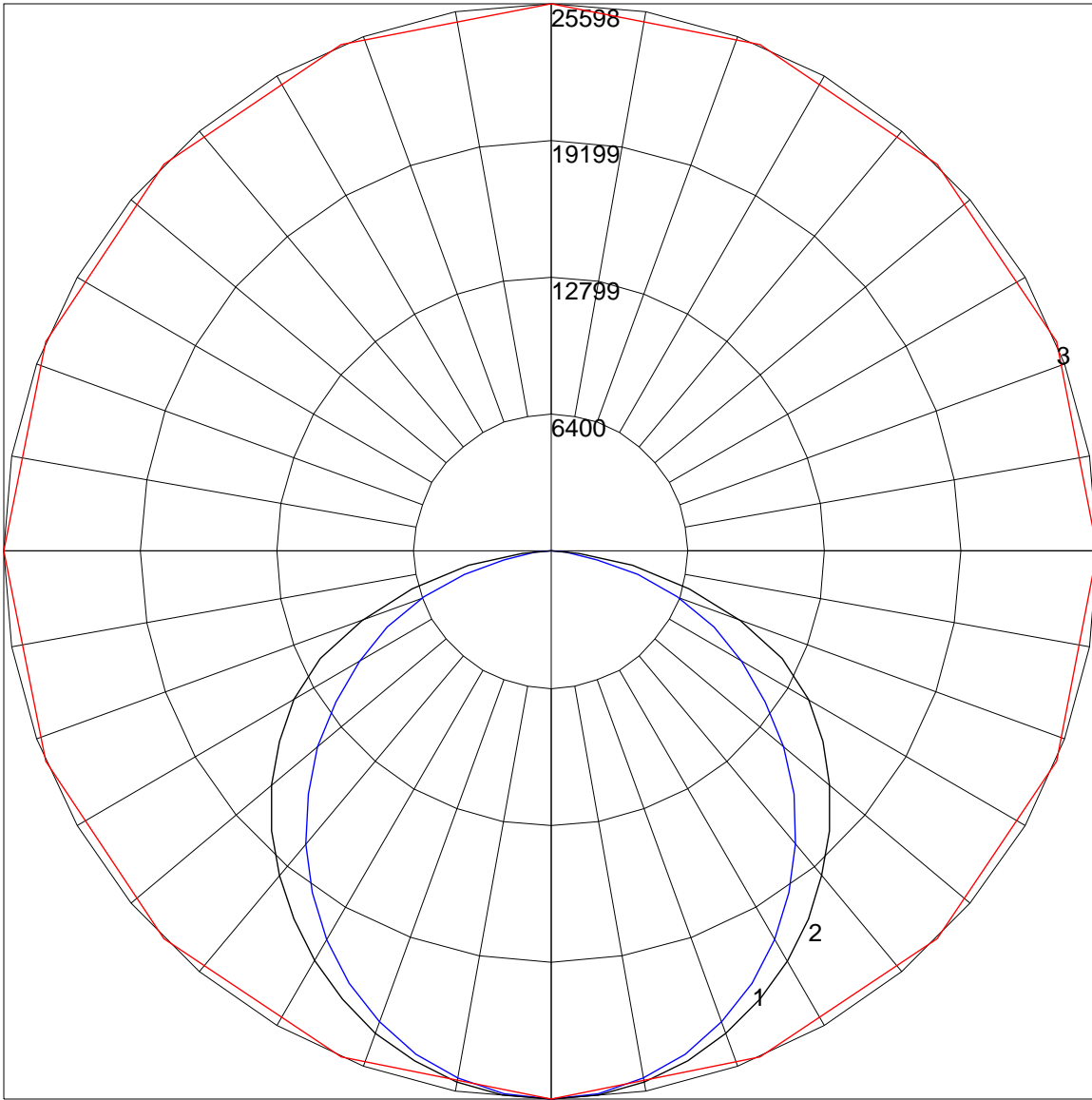
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 83 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 72 | 77 | 74 | 70 | 68 |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 69 | 62 | 73 | 67 | 61 | 71 | 65 | 60 | 68 | 63 | 59 | 57 |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 52 | 65 | 58 | 52 | 63 | 56 | 51 | 60 | 55 | 50 | 48 |
| 5 | 75 | 61 | 52 | 45 | 72 | 60 | 52 | 45 | 58 | 50 | 45 | 56 | 49 | 44 | 54 | 48 | 44 | 41 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 46 | 39 | 52 | 45 | 39 | 51 | 44 | 38 | 49 | 43 | 38 | 36 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 32 |
| 8 | 59 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 28 |
| 9 | 55 | 42 | 33 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 51 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 25 | 23 |

POLAR GRAPH



Maximum Candela = 25598 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)