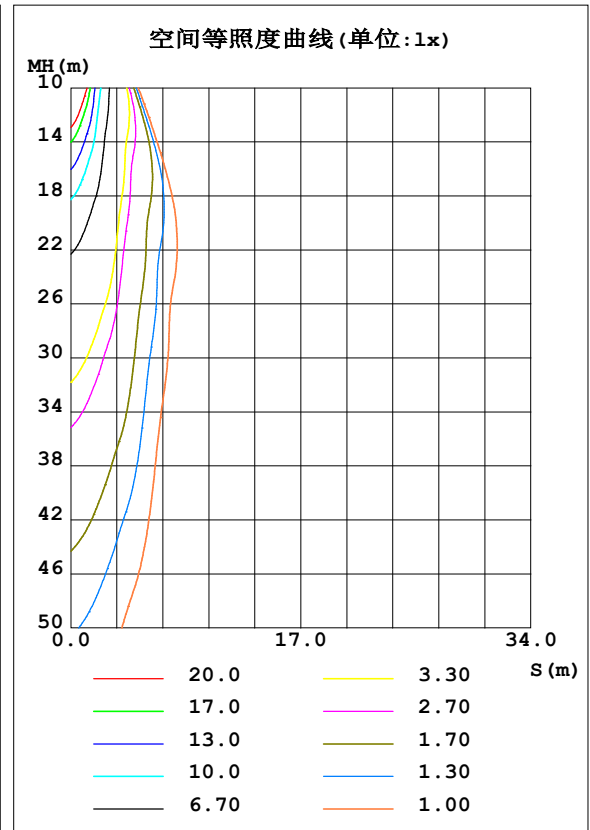
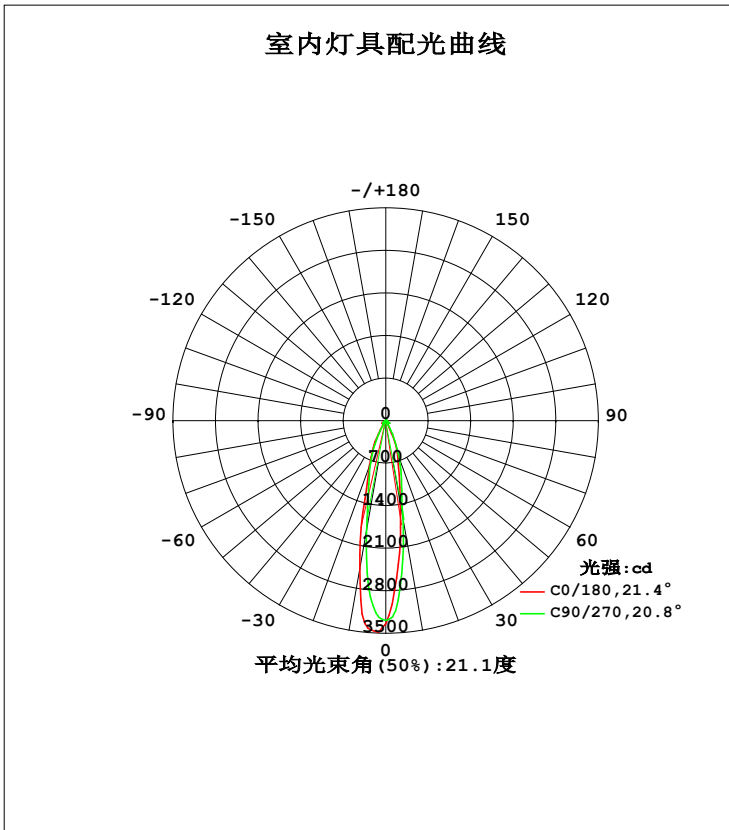


室内灯具光度数据

| | | |
|--|-------|-------|
| 实测参数: U:120.2V I:0.0960A P:10.83W PF:0.9387 Freq:59.98Hz 实检光通:856.756x1 lm | | |
| 灯具名称: | 灯具类型: | 灯具重量: |
| 灯具规格: | 外型尺寸: | 测试编号: |
| 制造厂商: TOSPO | 发光口面: | 遮光角: |

| 光源数据 | | 光度数据 | | | | 光效: 79.11 lm/W |
|------------|---------|-----------|--------|--------------------------|--|----------------|
| 型号 | | 峰值光强 (cd) | 3486 | S/MH (C0/180) | | 0.45 |
| 标称功率 (W) | | 灯具效率 (%) | 100.0 | S/MH (C90/270) | | 0.37 |
| 额定电源电压 (V) | 120 | 总光通量 (lm) | 856.76 | η UP, DN (C0-180) | | 0.0, 45.4 |
| 额定光通量 (lm) | 856.756 | CIE分类 | 直接 | η UP, DN (C180-360) | | 0.0, 54.6 |
| 灯具内光源数 (只) | 1 | 上射光通比 (%) | 0.0 | CIBSE SHR NOM | | 0.00 |
| 实测电源电压 (V) | 120 | 下射光通比 (%) | 100.0 | CIBSE SHR MAX | | 1.00 |



C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3℃
 测试人员: DAMIN
 测试日期: 2016-04-13

γ 角度范围: 0度 - 90度
 γ 角度间隔: 1.0度
 测试系统: 远方 (EVERFINE) GO-2000H_V1系统 V2.0.361
 环境湿度: 65.0%
 测试距离: 11.030米 [K=1.0000]
 备注:

灯具环带光通量

环带光通量:

| γ | C0 | C45 | C90 | C135 | C180 | C225 | C270 | C315 | $\gamma(^{\circ})$ | $\Phi_{环}$ | $\Phi_{总}$ | %lum, lamp |
|----------|--------|--------|--------|-------|-------|-------|-------|-------|--------------------|------------|------------|------------|
| 10 | 1383 | 1320 | 1641 | 2100 | 2481 | 2250 | 1823 | 1467 | 0- 10 | 238.2 | 238.2 | 27.8, 27.8 |
| 20 | 564.5 | 535.6 | 646.6 | 791.3 | 786.2 | 712.6 | 734.4 | 637.3 | 10- 20 | 299.2 | 537.3 | 62.7, 62.7 |
| 30 | 62.05 | 60.34 | 115.9 | 144.4 | 181.0 | 158.2 | 170.7 | 81.90 | 20- 30 | 166.4 | 703.7 | 82.1, 82.1 |
| 40 | 53.57 | 47.37 | 47.84 | 48.88 | 51.84 | 49.33 | 48.51 | 49.24 | 30- 40 | 39.53 | 743.3 | 86.8, 86.8 |
| 50 | 58.13 | 60.13 | 68.82 | 73.46 | 75.75 | 71.04 | 69.60 | 61.87 | 40- 50 | 46.98 | 790.3 | 92.2, 92.2 |
| 60 | 17.16 | 17.58 | 22.44 | 28.86 | 40.85 | 34.47 | 23.34 | 20.31 | 50- 60 | 43.13 | 833.4 | 97.3, 97.3 |
| 70 | 6.541 | 7.402 | 8.870 | 11.03 | 11.73 | 11.43 | 9.145 | 8.060 | 60- 70 | 15.14 | 848.5 | 99, 99 |
| 80 | 2.238 | 2.367 | 2.967 | 3.786 | 4.220 | 3.929 | 3.220 | 2.726 | 70- 80 | 6.092 | 854.6 | 99.8, 99.8 |
| 90 | 0.9910 | 0.9258 | 0.9650 | 1.226 | 1.506 | 1.317 | 1.193 | 1.108 | 80- 90 | 2.132 | 856.8 | 100, 100 |
| 100 | | | | | | | | | 90-100 | | | |
| 110 | | | | | | | | | 100-110 | | | |
| 120 | | | | | | | | | 110-120 | | | |
| 130 | | | | | | | | | 120-130 | | | |
| 140 | | | | | | | | | 130-140 | | | |
| 150 | | | | | | | | | 140-150 | | | |
| 160 | | | | | | | | | 150-160 | | | |
| 170 | | | | | | | | | 160-170 | | | |
| 180 | | | | | | | | | 170-180 | | | |
| 单位:° | 光强:cd | | | | | | | | | 单位:lm | | |

锥面光通量(90度): 763.54 lm

%lum = 89.1%

%lamp = 89.1%

锥面光通量(120度): 833.39 lm

%lum = 97.3%

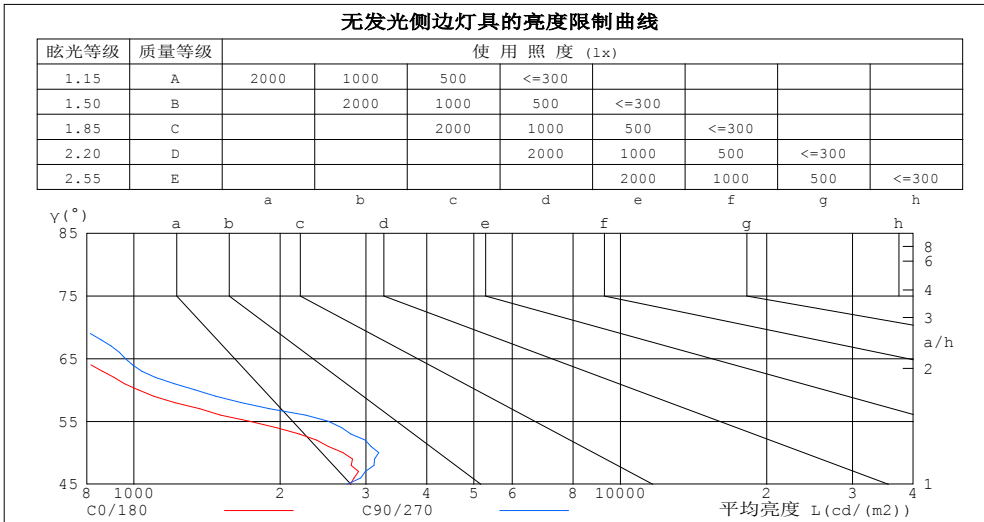
%lamp = 97.3%

C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3°C
 测试人员: DAMIN
 测试日期: 2016-04-13

γ 角度范围: 0度 - 90度
 γ 角度间隔: 1.0度
 测试系统: 远方(EVERFINE)GO-2000H_V1系统 V2.0.361
 环境湿度: 65.0%
 测试距离: 11.030米 [K=1.0000]
 备注:

灯具亮度限制曲线

| | | |
|--|-------|-------|
| 实测参数: U:120.2V I:0.0960A P:10.83W PF:0.9387 Freq:59.98Hz 实检光通:856.756x1 lm | | |
| 灯具名称: | 灯具类型: | 灯具重量: |
| 灯具规格: | 外型尺寸: | 测试编号: |
| 制造厂商: TOSPO | 发光口面: | 遮光角: |



| 平均亮度值 cd/(m2) | | |
|---------------|--------|---------|
| γ (°) | C0/180 | C90/270 |
| 85 | 479 | 573 |
| 80 | 383 | 509 |
| 75 | 425 | 609 |
| 70 | 569 | 772 |
| 65 | 778 | 960 |
| 60 | 1021 | 1336 |
| 55 | 1728 | 2509 |
| 50 | 2692 | 3186 |
| 45 | 2784 | 2748 |

C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3°C
 测试人员: DAMIN
 测试日期: 2016-04-13

γ角度范围: 0度 - 90度
 γ角度间隔: 1.0度
 测试系统: 远方 (EVERFINE) GO-2000H_V1系统 V2.0.361
 环境湿度: 65.0%
 测试距离: 11.030米 [K=1.0000]
 备注:

墙面和天花板利用系数

| | | | | | |
|--|--|-------|--|-------|--|
| 实测参数: U:120.2V I:0.0960A P:10.83W PF:0.9387 Freq:59.98Hz 实检光通:856.756x1 lm | | | | | |
| 灯具名称: | | 灯具类型: | | 灯具重量: | |
| 灯具规格: | | 外型尺寸: | | 测试编号: | |
| 制造厂商: TOSPO | | 发光口面: | | 遮光角: | |

| 顶棚 | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| 墙面 | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| 地板 | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| 室空间比 | 墙壁面利用系数 | | | | | | | | | | | | | | | |
| 0.0 | | | | | | | | | | | | | | | | |
| 1.0 | .168 | .096 | .030 | .162 | .092 | .029 | .149 | .085 | .027 | .137 | .079 | .025 | .127 | .074 | .024 | |
| 2.0 | .158 | .087 | .027 | .153 | .084 | .026 | .142 | .079 | .025 | .133 | .074 | .023 | .124 | .070 | .022 | |
| 3.0 | .148 | .079 | .024 | .144 | .077 | .023 | .135 | .073 | .022 | .127 | .069 | .021 | .119 | .066 | .020 | |
| 4.0 | .139 | .072 | .021 | .135 | .071 | .021 | .128 | .068 | .020 | .121 | .065 | .020 | .114 | .062 | .019 | |
| 5.0 | .131 | .067 | .019 | .127 | .065 | .019 | .121 | .063 | .019 | .115 | .061 | .018 | .109 | .058 | .018 | |
| 6.0 | .123 | .062 | .018 | .120 | .061 | .017 | .115 | .059 | .017 | .109 | .057 | .017 | .104 | .055 | .016 | |
| 7.0 | .117 | .058 | .016 | .114 | .057 | .016 | .109 | .055 | .016 | .104 | .053 | .016 | .100 | .052 | .015 | |
| 8.0 | .111 | .054 | .015 | .108 | .053 | .015 | .104 | .052 | .015 | .100 | .051 | .015 | .096 | .049 | .014 | |
| 9.0 | .105 | .051 | .014 | .103 | .050 | .014 | .099 | .049 | .014 | .095 | .048 | .014 | .092 | .047 | .013 | |
| 10.0 | .100 | .048 | .013 | .098 | .047 | .013 | .095 | .046 | .013 | .092 | .045 | .013 | .088 | .044 | .013 | |

| 顶棚 | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0 |
|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| 墙面 | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0 |
| 地板 | 20% | | | 20% | | | 20% | | | 20% | | | 20% | | | 0 |
| 室空间比 | 天花板利用系数 | | | | | | | | | | | | | | | |
| 0.0 | .190 | .190 | .190 | .163 | .163 | .163 | .111 | .111 | .111 | .064 | .064 | .064 | .020 | .020 | .020 | |
| 1.0 | .171 | .157 | .146 | .146 | .135 | .125 | .100 | .093 | .087 | .057 | .054 | .050 | .018 | .017 | .016 | |
| 2.0 | .154 | .133 | .114 | .132 | .114 | .099 | .091 | .079 | .069 | .052 | .046 | .040 | .017 | .015 | .013 | |
| 3.0 | .141 | .113 | .091 | .121 | .098 | .079 | .083 | .068 | .056 | .048 | .040 | .033 | .015 | .013 | .011 | |
| 4.0 | .130 | .099 | .075 | .111 | .085 | .065 | .077 | .059 | .046 | .044 | .035 | .027 | .014 | .011 | .009 | |
| 5.0 | .120 | .087 | .062 | .103 | .075 | .054 | .071 | .052 | .038 | .041 | .031 | .023 | .013 | .010 | .007 | |
| 6.0 | .112 | .077 | .052 | .096 | .067 | .045 | .066 | .047 | .032 | .038 | .027 | .019 | .012 | .009 | .006 | |
| 7.0 | .104 | .069 | .044 | .090 | .060 | .039 | .062 | .042 | .027 | .036 | .025 | .016 | .012 | .008 | .005 | |
| 8.0 | .098 | .063 | .038 | .084 | .054 | .033 | .058 | .038 | .024 | .034 | .022 | .014 | .011 | .007 | .005 | |
| 9.0 | .092 | .057 | .033 | .080 | .050 | .029 | .055 | .035 | .021 | .032 | .021 | .012 | .010 | .007 | .004 | |
| 10.0 | .087 | .052 | .029 | .075 | .046 | .026 | .052 | .032 | .018 | .030 | .019 | .011 | .010 | .006 | .004 | |

C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3℃
 测试人员: DAMIN
 测试日期: 2016-04-13

γ角度范围: 0度 - 90度
 γ角度间隔: 1.0度
 测试系统: 远方(EVERFINE)GO-2000H_V1系统 V2.0.361
 环境湿度: 65.0%
 测试距离: 11.030米 [K=1.0000]
 备注:

UGR(Unified Glare Rating)数据表

| | | | | | | | | | | |
|--|----------------------|------|-------|------|------|--------------------|------|------|------|------|
| 实测参数: U:120.2V I:0.0960A P:10.83W PF:0.9387 Freq:59.98Hz 实检光通:856.756x1 lm | | | | | | | | | | |
| 灯具名称: | | | 灯具类型: | | | 灯具重量: | | | | |
| 灯具规格: | | | 外型尺寸: | | | 测试编号: | | | | |
| 制造厂商: TOSPO | | | 发光口面: | | | 遮光角: | | | | |
| 反射比: 天花板 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| 墙面 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| 工作面 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| 房间尺寸 | 交叉(Viewed crosswise) | | | | | 向前(Viewed endwise) | | | | |
| x = 2H y = 2H | 10.3 | 11.1 | 10.5 | 11.3 | 11.4 | 11.0 | 11.8 | 11.2 | 12.0 | 12.2 |
| 3H | 10.5 | 11.3 | 10.7 | 11.5 | 11.6 | 11.3 | 12.1 | 11.5 | 12.3 | 12.5 |
| 4H | 10.5 | 11.2 | 10.8 | 11.5 | 11.7 | 11.4 | 12.1 | 11.6 | 12.3 | 12.5 |
| 6H | 10.5 | 11.2 | 10.8 | 11.4 | 11.7 | 11.4 | 12.1 | 11.7 | 12.3 | 12.6 |
| 8H | 10.5 | 11.2 | 10.8 | 11.4 | 11.7 | 11.4 | 12.1 | 11.7 | 12.3 | 12.6 |
| 12H | 10.5 | 11.1 | 10.8 | 11.4 | 11.7 | 11.4 | 12.0 | 11.7 | 12.3 | 12.6 |
| 4H 2H | 10.4 | 11.2 | 10.7 | 11.4 | 11.6 | 11.1 | 11.8 | 11.3 | 12.0 | 12.2 |
| 3H | 10.7 | 11.4 | 11.0 | 11.6 | 11.9 | 11.4 | 12.1 | 11.7 | 12.3 | 12.6 |
| 4H | 10.8 | 11.4 | 11.1 | 11.7 | 12.0 | 11.5 | 12.1 | 11.9 | 12.4 | 12.7 |
| 6H | 10.8 | 11.3 | 11.2 | 11.7 | 12.0 | 11.6 | 12.1 | 12.0 | 12.5 | 12.8 |
| 8H | 10.8 | 11.3 | 11.2 | 11.6 | 12.0 | 11.6 | 12.1 | 12.0 | 12.5 | 12.8 |
| 12H | 10.8 | 11.3 | 11.2 | 11.6 | 12.0 | 11.7 | 12.1 | 12.1 | 12.5 | 12.9 |
| 8H 4H | 10.7 | 11.2 | 11.1 | 11.6 | 11.9 | 11.5 | 12.0 | 11.9 | 12.3 | 12.7 |
| 6H | 10.8 | 11.2 | 11.2 | 11.6 | 12.0 | 11.6 | 12.0 | 12.0 | 12.4 | 12.8 |
| 8H | 10.8 | 11.2 | 11.3 | 11.6 | 12.1 | 11.6 | 12.0 | 12.1 | 12.4 | 12.9 |
| 12H | 10.9 | 11.2 | 11.4 | 11.6 | 12.1 | 11.7 | 12.0 | 12.2 | 12.4 | 12.9 |
| 12H 4H | 10.7 | 11.1 | 11.1 | 11.5 | 11.9 | 11.4 | 11.9 | 11.8 | 12.3 | 12.6 |
| 6H | 10.8 | 11.1 | 11.2 | 11.6 | 12.0 | 11.6 | 11.9 | 12.0 | 12.3 | 12.8 |
| 8H | 10.8 | 11.1 | 11.3 | 11.6 | 12.0 | 11.6 | 11.9 | 12.1 | 12.4 | 12.8 |
| 不同间隔布灯时,观察者位置引起的UGR变化: | | | | | | | | | | |
| S = 1.0H | + 0.6 / - 0.8 | | | | | + 0.2 / - 0.2 | | | | |
| 1.5H | + 1.0 / - 2.7 | | | | | + 1.1 / - 2.6 | | | | |
| 2.0H | + 2.2 / - 3.0 | | | | | + 2.6 / - 3.2 | | | | |

依据CIE Pub.117计算, 856.8lm光源光通要进行修正(8log(F/F0) = -0.5)。

C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3℃
 测试人员: DAMIN
 测试日期: 2016-04-13

γ角度范围: 0度 - 90度
 γ角度间隔: 1.0度
 测试系统: 远方(EVERFINE)GO-2000H_V1系统 V2.0.361
 环境湿度: 65.0%
 测试距离: 11.030米 [K=1.0000]
 备注:

UF利用系数表

| | | |
|--|-------|-------|
| 实测参数: U:120.2V I:0.0960A P:10.83W PF:0.9387 Freq:59.98Hz 实检光通:856.756x1 lm | | |
| 灯具名称: | 灯具类型: | 灯具重量: |
| 灯具规格: | 外型尺寸: | 测试编号: |
| 制造厂商: TOSPO | 发光口面: | 遮光角: |

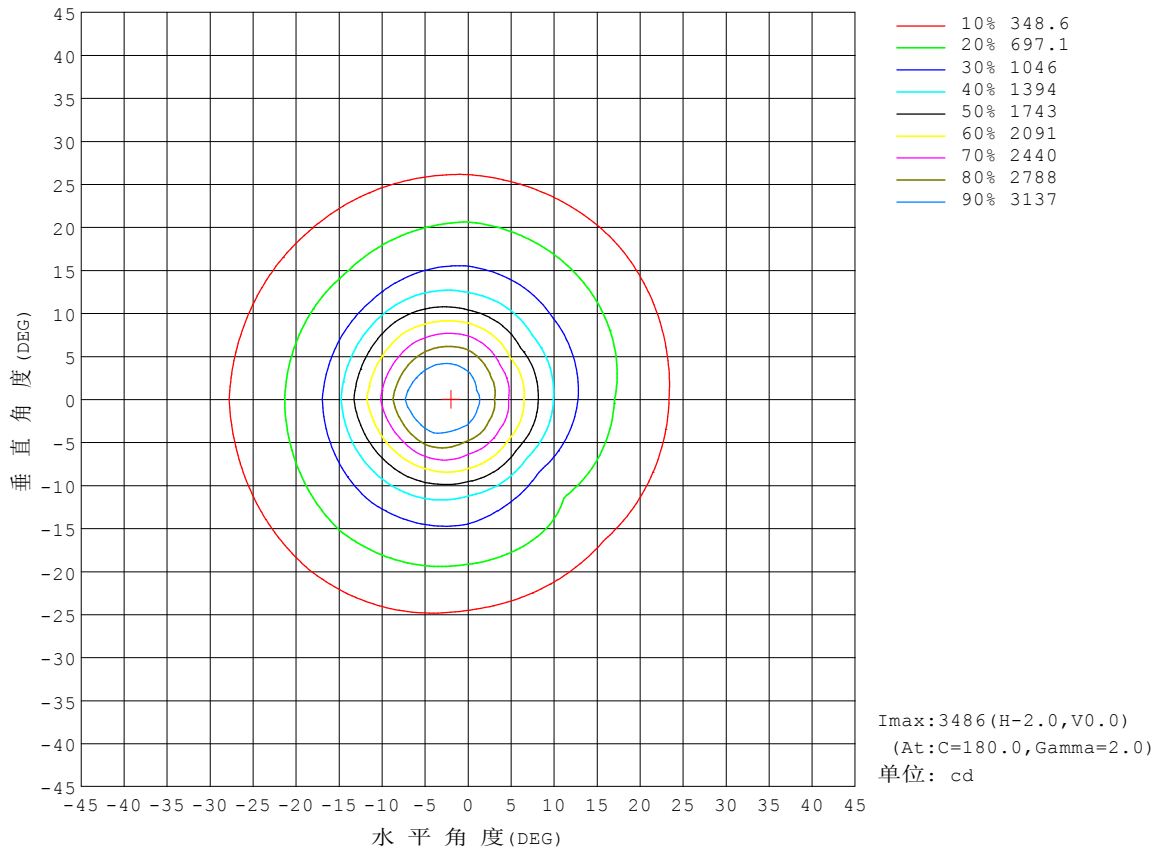
| 反 射 比 / REFLECTANCE | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|-----|----------------------|-----|-----|-----|---------|
| 天花板 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0 |
| 墙壁 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0.7 | 0.5 | 0.3 | 0 |
| 工作面 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0 |
| 室形指数 | 利用系数 UTILIZATION FACTORS (%) $k(RI) \times RCR = 5$ | | | | | | | | | |
| k = 0.60 | 83 | 76 | 72 | 83 | 76 | 72 | 82 | 75 | 71 | 68 |
| 0.80 | 91 | 84 | 80 | 90 | 84 | 80 | 89 | 83 | 80 | 76 |
| 1.00 | 96 | 90 | 86 | 95 | 89 | 85 | 94 | 89 | 85 | 81 |
| 1.25 | 101 | 95 | 91 | 100 | 94 | 90 | 98 | 93 | 90 | 85 |
| 1.50 | 104 | 98 | 95 | 102 | 98 | 94 | 100 | 96 | 93 | 88 |
| 2.00 | 107 | 102 | 99 | 105 | 101 | 98 | 103 | 99 | 96 | 91 |
| 2.50 | 109 | 105 | 101 | 107 | 103 | 100 | 104 | 101 | 98 | 92 |
| 3.00 | 111 | 107 | 104 | 109 | 105 | 103 | 105 | 103 | 100 | 94 |
| 4.00 | 113 | 110 | 107 | 111 | 108 | 106 | 107 | 105 | 103 | 96 |
| 5.00 | 114 | 112 | 110 | 112 | 110 | 108 | 108 | 106 | 105 | 97 |
| ROOM INDEX | UF (总) | | | | | | | | | UF (直接) |
| 依据标准文件 DIN EN 13032-2 2004 | | | 悬挂灯 | | | 安装距高比 SHR NOM = 1.25 | | | | |

C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3℃
 测试人员: DAMIN
 测试日期: 2016-04-13

γ角度范围: 0度 - 90度
 γ角度间隔: 1.0度
 测试系统: 远方 (EVERFINE) GO-2000H_V1系统 V2.0.361
 环境湿度: 65.0%
 测试距离: 11.030米 [K=1.0000]
 备注:

灯具等光强曲线

| | | |
|--|-------|-------|
| 实测参数: U:120.2V I:0.0960A P:10.83W PF:0.9387 Freq:59.98Hz 实检光通:856.756x1 lm | | |
| 灯具名称: | 灯具类型: | 灯具重量: |
| 灯具规格: | 外型尺寸: | 测试编号: |
| 制造厂商: TOSPO | 发光口面: | 遮光角: |

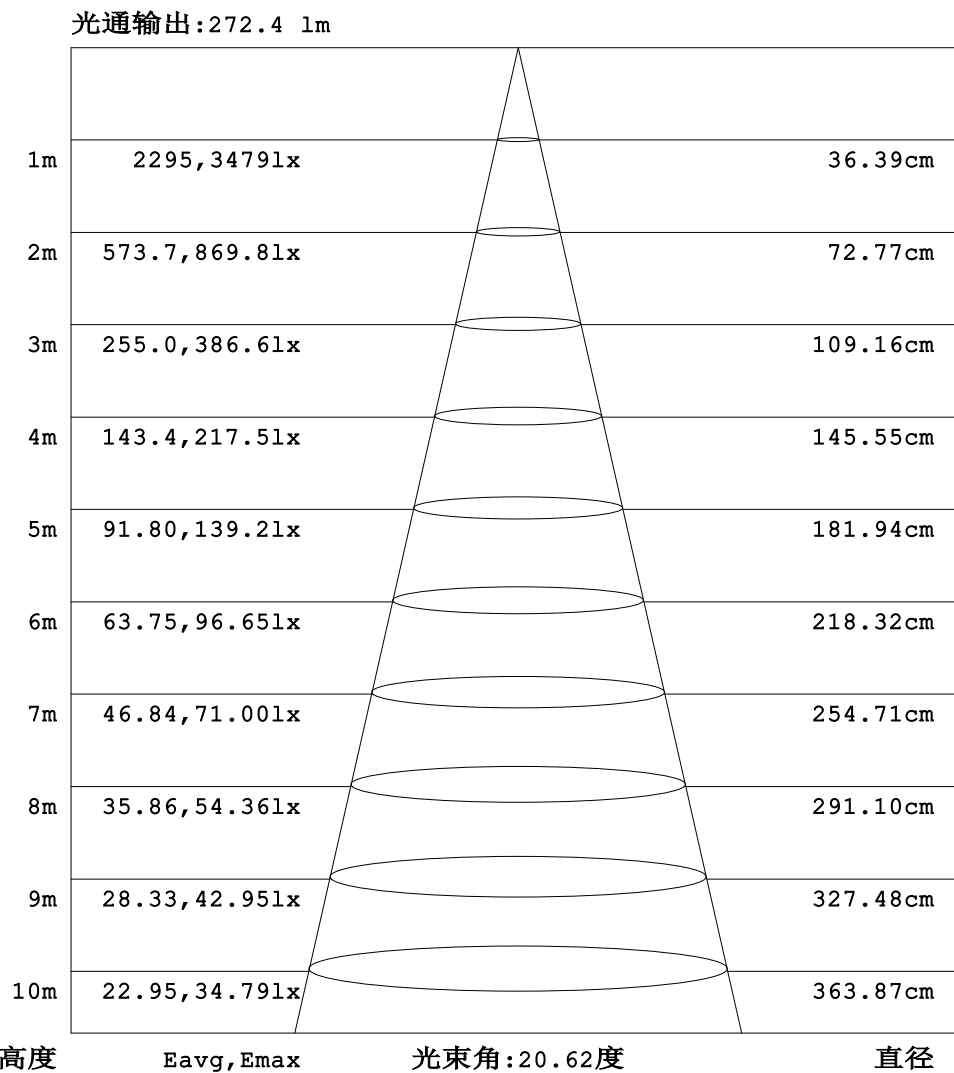


C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3℃
 测试人员: DAMIN
 测试日期: 2016-04-13

γ角度范围: 0度 - 90度
 γ角度间隔: 1.0度
 测试系统: 远方 (EVERFINE) GO-2000H_V1系统 V2.0.361
 环境湿度: 65.0%
 测试距离: 11.030米 [K=1.0000]
 备注:

灯具有效平均照度图

| | | |
|--|-------|-------|
| 实测参数: U:120.2V I:0.0960A P:10.83W PF:0.9387 Freq:59.98Hz 实检光通:856.756x1 lm | | |
| 灯具名称: | 灯具类型: | 灯具重量: |
| 灯具规格: | 外型尺寸: | 测试编号: |
| 制造厂商: TOSPO | 发光口面: | 遮光角: |

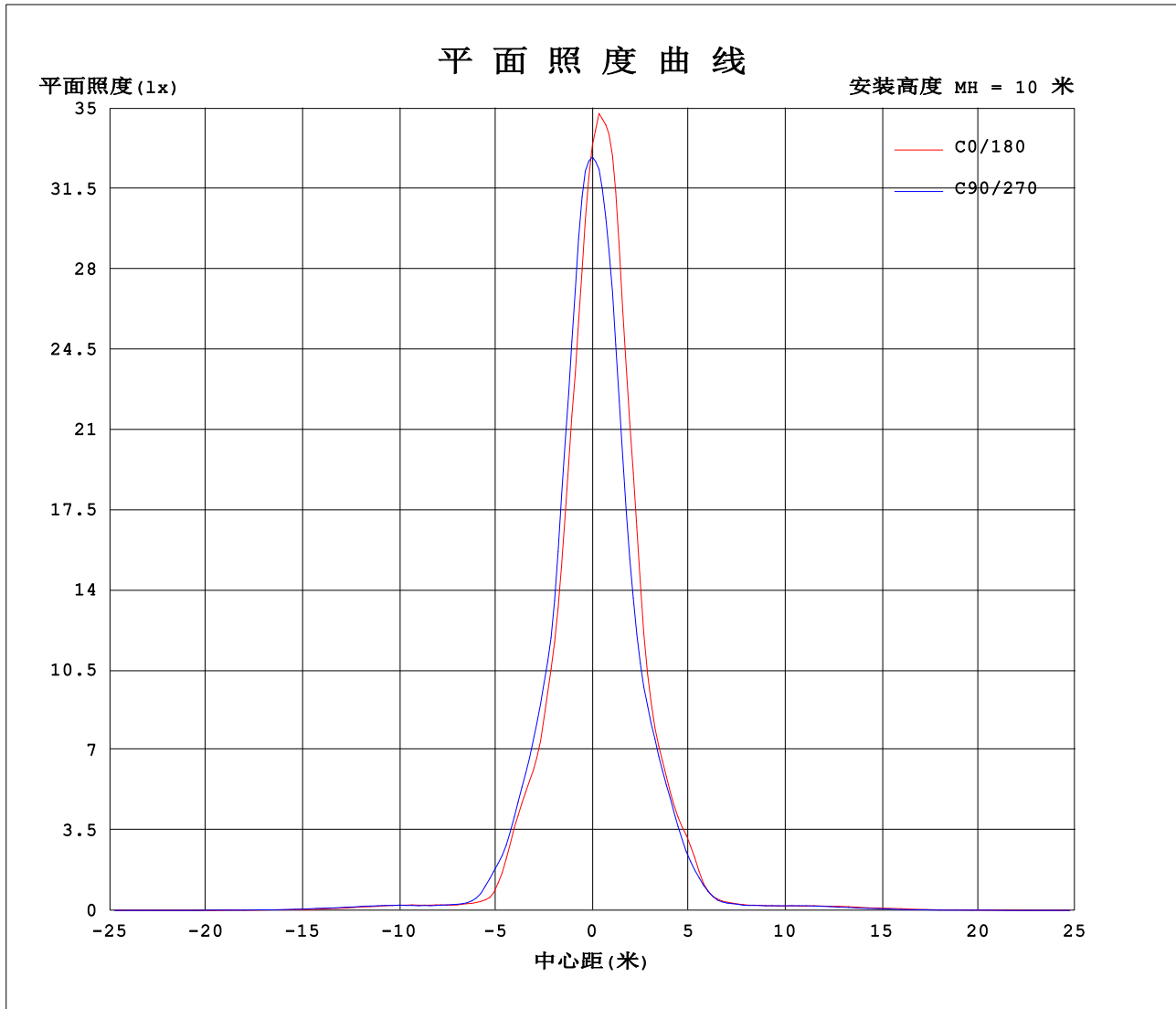


注:曲线为灯具在不同投射距离下的照射区域及区域内平均照度.

C角度范围: 0度 - 360度
 C角度间隔: 45.0度
 测试速度: 快速
 环境温度: 25.3℃
 测试人员: DAMIN
 测试日期: 2016-04-13

γ角度范围: 0度 - 90度
 γ角度间隔: 1.0度
 测试系统: 远方 (EVERFINE) GO-2000H_V1系统 V2.0.361
 环境湿度: 65.0%
 测试距离: 11.030米 [K=1.0000]
 备注:

平面照度曲线



C角度范围: 0度 - 360度
C角度间隔: 45.0度
测试速度: 快速
环境温度: 25.3°C
测试人员: DAMIN
测试日期: 2016-04-13

Y角度范围: 0度 - 90度
Y角度间隔: 1.0度
测试系统: 远方 (EVERFINE) GO-2000H_V1系统 V2.0.361
环境湿度: 65.0%
测试距离: 11.030米 [K=1.0000]
备注:

光强分布数据表格

| | | |
|--|-------|-------|
| 实测参数: U:120.2V I:0.0960A P:10.83W PF:0.9387 Freq:59.98Hz 实检光通:856.756x1 lm | | |
| 灯具名称: | 灯具类型: | 灯具重量: |
| 灯具规格: | 外型尺寸: | 测试编号: |
| 制造厂商: TOSPO | 发光口面: | 遮光角: |

表--1

单位: cd

| C (DEG) \ γ (DEG) | 0 | 45 | 90 | 135 | 180 | 225 | 270 | 315 | | | | | | | | | | | |
|-------------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| 0 | 3340 | 3317 | 3288 | 3270 | 3340 | 3317 | 3288 | 3270 | | | | | | | | | | | |
| 5 | 2374 | 2459 | 2744 | 3206 | 3428 | 3212 | 2911 | 2525 | | | | | | | | | | | |
| 10 | 1383 | 1320 | 1641 | 2100 | 2481 | 2250 | 1823 | 1467 | | | | | | | | | | | |
| 15 | 821 | 735 | 1001 | 1185 | 1340 | 1192 | 1082 | 950 | | | | | | | | | | | |
| 20 | 564 | 536 | 647 | 791 | 786 | 713 | 734 | 637 | | | | | | | | | | | |
| 25 | 222 | 192 | 324 | 470 | 490 | 461 | 418 | 336 | | | | | | | | | | | |
| 30 | 62.1 | 60.3 | 116 | 144 | 181 | 158 | 171 | 81.9 | | | | | | | | | | | |
| 35 | 46.2 | 46.2 | 50.0 | 61.4 | 66.6 | 65.4 | 60.3 | 51.4 | | | | | | | | | | | |
| 40 | 53.6 | 47.4 | 47.8 | 48.9 | 51.8 | 49.3 | 48.5 | 49.2 | | | | | | | | | | | |
| 45 | 66.1 | 65.5 | 65.3 | 59.1 | 56.6 | 55.8 | 61.2 | 64.6 | | | | | | | | | | | |
| 50 | 58.1 | 60.1 | 68.8 | 73.5 | 75.7 | 71.0 | 69.6 | 61.9 | | | | | | | | | | | |
| 55 | 33.3 | 36.9 | 48.4 | 55.8 | 67.2 | 62.6 | 50.8 | 40.2 | | | | | | | | | | | |
| 60 | 17.2 | 17.6 | 22.4 | 28.9 | 40.8 | 34.5 | 23.3 | 20.3 | | | | | | | | | | | |
| 65 | 11.0 | 12.1 | 13.6 | 15.6 | 17.5 | 17.1 | 14.4 | 13.2 | | | | | | | | | | | |
| 70 | 6.54 | 7.40 | 8.87 | 11.0 | 11.7 | 11.4 | 9.15 | 8.06 | | | | | | | | | | | |
| 75 | 3.70 | 4.27 | 5.29 | 6.75 | 7.27 | 6.95 | 5.55 | 4.64 | | | | | | | | | | | |
| 80 | 2.24 | 2.37 | 2.97 | 3.79 | 4.22 | 3.93 | 3.22 | 2.73 | | | | | | | | | | | |
| 85 | 1.40 | 1.36 | 1.68 | 2.19 | 2.47 | 2.30 | 1.79 | 1.62 | | | | | | | | | | | |
| 90 | 0.99 | 0.93 | 0.96 | 1.23 | 1.51 | 1.32 | 1.19 | 1.11 | | | | | | | | | | | |

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γ角度范围: 0度 - 90度
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 备注: