



## PHOTOMETRIC RESULTS



|                      |   |                          |            |
|----------------------|---|--------------------------|------------|
| <b>Name:</b>         | OPZS201705098-06002-sidaitongdeng-fang12W-3000K |                          |            |
| <b>Program:</b>      | Far-C15-G1-Downlight                            |                          |            |
| <b>Lum. flux:</b>    | 933.00 lm                                       | <b>Av. Voltage:</b>      | 219.9857 V |
| <b>Efficacy:</b>     | 81.27 lm/ W                                     | <b>Av. Current:</b>      | 0.09574 A  |
| <b>Maximum:</b>      | 321.695 cd                                      | <b>Av. Power:</b>        | 11.474 W   |
| <b>FluxCone-90:</b>  | 497.16 lm                                       | <b>Av. Power Factor:</b> | 0.5448     |
| <b>FluxCone-120:</b> | 734.76 lm                                       | <b>Company:</b>          | Oppl       |
| <b>Date:</b>         | 5/18/2017 5:23:06 PM                            | <b>Operator:</b>         | SLY        |

### Protocol

LiTG-class: A41  
UTE-class: 1.00 E  
IES-class: 47 - 79 - 96 - 100 - 100  
TM5-class: BZ4

#### Divergences in the plane through maximum intensity:

|                               | Horizontal | Vertical |
|-------------------------------|------------|----------|
| One half peak divergence      | 114.4°     | 114.4°   |
| Half peak side angle (left)   | -56.5°     | -56.8°   |
| Half peak side angle (right)  | 57.9°      | 57.7°    |
| One tenth peak divergence     | 161.2°     | 161.1°   |
| Tenth peak side angle (left)  | -79.9°     | -80.2°   |
| Tenth peak side angle (right) | 81.2°      | 81.0°    |

|                  |        |        |        |        |        |        |        |        |        |        |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>C-planes:</b> | 0.0°   | 15.0°  | 30.0°  | 45.0°  | 60.0°  | 75.0°  | 90.0°  | 105.0° | 120.0° | 135.0° |
|                  | 150.0° | 165.0° | 180.0° | 195.0° | 210.0° | 225.0° | 240.0° | 255.0° | 270.0° | 285.0° |
|                  | 300.0° | 315.0° | 330.0° | 345.0° |        |        |        |        |        |        |

|               |        |       |       |       |       |       |       |       |       |       |
|---------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Gamma:</b> | 0.0°   | 1.0°  | 2.0°  | 3.0°  | 4.0°  | 5.0°  | 6.0°  | 7.0°  | 8.0°  | 9.0°  |
|               | 10.0°  | 11.0° | 12.0° | 13.0° | 14.0° | 15.0° | 16.0° | 17.0° | 18.0° | 19.0° |
|               | 20.0°  | 21.0° | 22.0° | 23.0° | 24.0° | 25.0° | 26.0° | 27.0° | 28.0° | 29.0° |
|               | 30.0°  | 31.0° | 32.0° | 33.0° | 34.0° | 35.0° | 36.0° | 37.0° | 38.0° | 39.0° |
|               | 40.0°  | 41.0° | 42.0° | 43.0° | 44.0° | 45.0° | 46.0° | 47.0° | 48.0° | 49.0° |
|               | 50.0°  | 51.0° | 52.0° | 53.0° | 54.0° | 55.0° | 56.0° | 57.0° | 58.0° | 59.0° |
|               | 60.0°  | 61.0° | 62.0° | 63.0° | 64.0° | 65.0° | 66.0° | 67.0° | 68.0° | 69.0° |
|               | 70.0°  | 71.0° | 72.0° | 73.0° | 74.0° | 75.0° | 76.0° | 77.0° | 78.0° | 79.0° |
|               | 80.0°  | 81.0° | 82.0° | 83.0° | 84.0° | 85.0° | 86.0° | 87.0° | 88.0° | 89.0° |
|               | 90.0°  | 91.0° | 92.0° | 93.0° | 94.0° | 95.0° | 96.0° | 97.0° | 98.0° | 99.0° |
|               | 100.0° |       |       |       |       |       |       |       |       |       |



OPPLE Lighting Lab

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## PHOTOMETRIC RESULTS



|                      |   |                          |            |
|----------------------|---|--------------------------|------------|
| <b>Name:</b>         | OPZS201705098-06002-sidaitongdeng-fang12W-3000K |                          |            |
| <b>Program:</b>      | Far-C15-G1-Downlight                            |                          |            |
| <b>Lum. flux:</b>    | 933.00 lm                                       | <b>Av. Voltage:</b>      | 219.9857 V |
| <b>Efficacy:</b>     | 81.27 lm/ W                                     | <b>Av. Current:</b>      | 0.09574 A  |
| <b>Maximum:</b>      | 321.695 cd                                      | <b>Av. Power:</b>        | 11.474 W   |
| <b>FluxCone-90:</b>  | 497.16 lm                                       | <b>Av. Power Factor:</b> | 0.5448     |
| <b>FluxCone-120:</b> | 734.76 lm                                       | <b>Company:</b>          | Oppl       |
| <b>Date:</b>         | 5/18/2017 5:23:06 PM                            | <b>Operator:</b>         | SLY        |

### Electrical protocol OPZS201705098-06002-sidaitongdeng-fang12W-3000K / C-Plane measurement

| [deg] | U [V]    | I [A]   | P [W]  | PF     |
|-------|----------|---------|--------|--------|
| 0.0   | 219.9850 | 0.09576 | 11.479 | 0.5449 |
| 15.0  | 219.9850 | 0.09574 | 11.472 | 0.5447 |
| 30.0  | 219.9860 | 0.09574 | 11.475 | 0.5448 |
| 45.0  | 219.9860 | 0.09574 | 11.473 | 0.5448 |
| 60.0  | 219.9860 | 0.09574 | 11.473 | 0.5447 |
| 75.0  | 219.9860 | 0.09573 | 11.470 | 0.5447 |
| 90.0  | 219.9860 | 0.09574 | 11.475 | 0.5448 |
| 180.0 | 219.9850 | 0.09576 | 11.479 | 0.5449 |
| 195.0 | 219.9850 | 0.09574 | 11.472 | 0.5447 |
| 210.0 | 219.9860 | 0.09574 | 11.475 | 0.5448 |
| 225.0 | 219.9860 | 0.09574 | 11.473 | 0.5448 |
| 240.0 | 219.9860 | 0.09574 | 11.473 | 0.5447 |
| 255.0 | 219.9860 | 0.09573 | 11.470 | 0.5447 |
| 270.0 | 219.9860 | 0.09574 | 11.475 | 0.5448 |



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| <b>FluxCone-120:</b> | 734.76 lm                                       | <b>Company:</b>          | Oppl       |
| <b>Date:</b>         | 5/18/2017 5:23:06 PM                            | <b>Operator:</b>         | SLY        |

### Zonal flux OPZS201705098-06002-sidaitongdeng-fang12W-3000K / C-Plane measurement

| Gamm<br>a [°] | Imin<br>[cd/klm<br>] | Imax<br>[cd/klm<br>] | Imean<br>[cd/klm<br>] | Zonal<br>flux<br>[lm] | Sum.<br>zonal<br>flux<br>[lm] | Rel.<br>zonal<br>flux [%] | Sum.<br>rel.<br>zonal<br>flux [%] |
|---------------|----------------------|----------------------|-----------------------|-----------------------|-------------------------------|---------------------------|-----------------------------------|
| 0.0           | 321.5                | 321.7                | 321.6                 | 0.00                  | 0.00                          | 0.00                      | 0.00                              |
| 1.0           | 321.5                | 321.7                | 321.6                 | 0.31                  | 0.31                          | 0.03                      | 0.03                              |
| 2.0           | 321.3                | 321.6                | 321.5                 | 0.92                  | 1.23                          | 0.10                      | 0.13                              |
| 3.0           | 320.9                | 321.4                | 321.2                 | 1.54                  | 2.77                          | 0.16                      | 0.30                              |
| 4.0           | 320.5                | 321.2                | 320.9                 | 2.15                  | 4.92                          | 0.23                      | 0.53                              |
| 5.0           | 319.9                | 320.8                | 320.4                 | 2.76                  | 7.68                          | 0.30                      | 0.82                              |
| 6.0           | 319.2                | 320.3                | 319.8                 | 3.36                  | 11.04                         | 0.36                      | 1.18                              |
| 7.0           | 318.4                | 319.7                | 319.1                 | 3.97                  | 15.01                         | 0.43                      | 1.61                              |
| 8.0           | 317.5                | 318.8                | 318.3                 | 4.56                  | 19.57                         | 0.49                      | 2.10                              |
| 9.0           | 316.6                | 318.0                | 317.4                 | 5.15                  | 24.72                         | 0.55                      | 2.65                              |
| 10.0          | 315.4                | 317.1                | 316.3                 | 5.73                  | 30.45                         | 0.61                      | 3.26                              |
| 11.0          | 314.3                | 316.0                | 315.2                 | 6.31                  | 36.76                         | 0.68                      | 3.94                              |
| 12.0          | 312.8                | 314.8                | 313.9                 | 6.88                  | 43.64                         | 0.74                      | 4.68                              |
| 13.0          | 311.5                | 313.6                | 312.6                 | 7.43                  | 51.08                         | 0.80                      | 5.47                              |
| 14.0          | 309.9                | 312.2                | 311.1                 | 7.98                  | 59.06                         | 0.86                      | 6.33                              |
| 15.0          | 308.4                | 310.7                | 309.6                 | 8.52                  | 67.58                         | 0.91                      | 7.24                              |
| 16.0          | 306.6                | 309.1                | 307.9                 | 9.05                  | 76.63                         | 0.97                      | 8.21                              |
| 17.0          | 304.9                | 307.4                | 306.2                 | 9.56                  | 86.19                         | 1.02                      | 9.24                              |
| 18.0          | 302.9                | 305.6                | 304.3                 | 10.07                 | 96.26                         | 1.08                      | 10.32                             |
| 19.0          | 300.9                | 303.7                | 302.3                 | 10.55                 | 106.81                        | 1.13                      | 11.45                             |
| 20.0          | 298.7                | 301.8                | 300.3                 | 11.03                 | 117.84                        | 1.18                      | 12.63                             |

**Zonal flux OPZS201705098-06002-sidaitongdeng-fang12W-3000K / C-Plane measurement**

| Gamm<br>a [°] | Imin<br>[cd/klm<br>] | Imax<br>[cd/klm<br>] | Imean<br>[cd/klm<br>] | Zonal<br>flux<br>[lm] | Sum.<br>zonal<br>flux<br>[lm] | Rel.<br>zonal<br>flux [%] | Sum.<br>rel.<br>zonal<br>flux [%] |
|---------------|----------------------|----------------------|-----------------------|-----------------------|-------------------------------|---------------------------|-----------------------------------|
| 21.0          | 296.6                | 299.6                | 298.1                 | 11.49                 | 129.33                        | 1.23                      | 13.86                             |
| 22.0          | 294.2                | 297.5                | 295.9                 | 11.94                 | 141.27                        | 1.28                      | 15.14                             |
| 23.0          | 291.8                | 295.2                | 293.5                 | 12.37                 | 153.64                        | 1.33                      | 16.47                             |
| 24.0          | 289.3                | 292.7                | 291.0                 | 12.78                 | 166.42                        | 1.37                      | 17.84                             |
| 25.0          | 286.5                | 290.3                | 288.4                 | 13.18                 | 179.59                        | 1.41                      | 19.25                             |
| 26.0          | 284.1                | 287.7                | 285.9                 | 13.56                 | 193.15                        | 1.45                      | 20.70                             |
| 27.0          | 281.1                | 285.1                | 283.1                 | 13.92                 | 207.07                        | 1.49                      | 22.19                             |
| 28.0          | 278.4                | 282.2                | 280.3                 | 14.27                 | 221.34                        | 1.53                      | 23.72                             |
| 29.0          | 275.2                | 279.5                | 277.4                 | 14.59                 | 235.93                        | 1.56                      | 25.29                             |
| 30.0          | 272.3                | 276.6                | 274.4                 | 14.90                 | 250.83                        | 1.60                      | 26.88                             |
| 31.0          | 269.1                | 273.4                | 271.3                 | 15.19                 | 266.02                        | 1.63                      | 28.51                             |
| 32.0          | 265.8                | 270.1                | 268.1                 | 15.45                 | 281.47                        | 1.66                      | 30.17                             |
| 33.0          | 262.5                | 267.2                | 264.8                 | 15.70                 | 297.17                        | 1.68                      | 31.85                             |
| 34.0          | 259.2                | 263.7                | 261.6                 | 15.93                 | 313.10                        | 1.71                      | 33.56                             |
| 35.0          | 255.5                | 260.5                | 258.1                 | 16.14                 | 329.24                        | 1.73                      | 35.29                             |
| 36.0          | 252.0                | 256.8                | 254.5                 | 16.32                 | 345.56                        | 1.75                      | 37.04                             |
| 37.0          | 248.3                | 253.6                | 250.9                 | 16.48                 | 362.04                        | 1.77                      | 38.80                             |
| 38.0          | 244.5                | 249.8                | 247.2                 | 16.63                 | 378.67                        | 1.78                      | 40.59                             |
| 39.0          | 240.8                | 246.2                | 243.5                 | 16.75                 | 395.42                        | 1.80                      | 42.38                             |
| 40.0          | 236.7                | 242.2                | 239.5                 | 16.84                 | 412.27                        | 1.81                      | 44.19                             |
| 41.0          | 232.6                | 238.3                | 235.6                 | 16.92                 | 429.18                        | 1.81                      | 46.00                             |
| 42.0          | 228.8                | 234.5                | 231.5                 | 16.97                 | 446.15                        | 1.82                      | 47.82                             |
| 43.0          | 224.5                | 230.2                | 227.4                 | 17.00                 | 463.16                        | 1.82                      | 49.64                             |
| 44.0          | 220.3                | 225.9                | 223.2                 | 17.01                 | 480.16                        | 1.82                      | 51.46                             |
| 45.0          | 216.0                | 222.1                | 219.0                 | 17.00                 | 497.16                        | 1.82                      | 53.29                             |
| 46.0          | 211.6                | 217.6                | 214.7                 | 16.96                 | 514.12                        | 1.82                      | 55.10                             |
| 47.0          | 207.2                | 213.3                | 210.3                 | 16.90                 | 531.03                        | 1.81                      | 56.92                             |
| 48.0          | 202.5                | 208.7                | 205.6                 | 16.81                 | 547.84                        | 1.80                      | 58.72                             |
| 49.0          | 198.1                | 204.4                | 201.1                 | 16.70                 | 564.54                        | 1.79                      | 60.51                             |
| 50.0          | 193.4                | 199.8                | 196.5                 | 16.58                 | 581.12                        | 1.78                      | 62.29                             |
| 51.0          | 188.6                | 195.1                | 191.8                 | 16.43                 | 597.55                        | 1.76                      | 64.05                             |
| 52.0          | 183.6                | 190.2                | 186.9                 | 16.25                 | 613.80                        | 1.74                      | 65.79                             |
| 53.0          | 178.5                | 185.2                | 182.0                 | 16.05                 | 629.84                        | 1.72                      | 67.51                             |
| 54.0          | 173.7                | 180.7                | 177.1                 | 15.82                 | 645.67                        | 1.70                      | 69.20                             |
| 55.0          | 168.6                | 175.4                | 172.1                 | 15.59                 | 661.25                        | 1.67                      | 70.87                             |
| 56.0          | 163.6                | 170.5                | 167.0                 | 15.32                 | 676.58                        | 1.64                      | 72.52                             |
| 57.0          | 158.3                | 165.3                | 161.8                 | 15.03                 | 691.61                        | 1.61                      | 74.13                             |
| 58.0          | 153.1                | 160.1                | 156.6                 | 14.72                 | 706.33                        | 1.58                      | 75.71                             |
| 59.0          | 147.5                | 155.0                | 151.3                 | 14.39                 | 720.72                        | 1.54                      | 77.25                             |
| 60.0          | 142.2                | 149.5                | 145.9                 | 14.04                 | 734.76                        | 1.50                      | 78.75                             |

**Zonal flux OPZS201705098-06002-sidaitongdeng-fang12W-3000K / C-Plane measurement**

| Gamma [°] | Imin [cd/klm] | Imax [cd/klm] | Imean [cd/klm] | Zonal flux [lm] | Sum. zonal flux [lm] | Rel. zonal flux [%] | Sum. rel. zonal flux [%] |
|-----------|---------------|---------------|----------------|-----------------|----------------------|---------------------|--------------------------|
| 61.0      | 136.8         | 144.3         | 140.5          | 13.67           | 748.43               | 1.47                | 80.22                    |
| 62.0      | 131.7         | 139.2         | 135.2          | 13.29           | 761.72               | 1.42                | 81.64                    |
| 63.0      | 125.9         | 133.6         | 129.7          | 12.88           | 774.60               | 1.38                | 83.02                    |
| 64.0      | 120.5         | 128.2         | 124.1          | 12.45           | 787.05               | 1.33                | 84.36                    |
| 65.0      | 114.7         | 122.4         | 118.5          | 12.00           | 799.06               | 1.29                | 85.64                    |
| 66.0      | 108.8         | 116.9         | 112.8          | 11.54           | 810.60               | 1.24                | 86.88                    |
| 67.0      | 103.6         | 111.3         | 107.3          | 11.07           | 821.66               | 1.19                | 88.07                    |
| 68.0      | 97.7          | 105.4         | 101.5          | 10.58           | 832.24               | 1.13                | 89.20                    |
| 69.0      | 91.9          | 99.8          | 95.9           | 10.07           | 842.31               | 1.08                | 90.28                    |
| 70.0      | 86.1          | 94.1          | 90.1           | 9.55            | 851.86               | 1.02                | 91.30                    |
| 71.0      | 80.4          | 88.2          | 84.3           | 9.01            | 860.88               | 0.97                | 92.27                    |
| 72.0      | 74.8          | 82.6          | 78.6           | 8.47            | 869.35               | 0.91                | 93.18                    |
| 73.0      | 69.0          | 76.7          | 72.9           | 7.92            | 877.27               | 0.85                | 94.03                    |
| 74.0      | 63.4          | 71.4          | 67.3           | 7.37            | 884.64               | 0.79                | 94.82                    |
| 75.0      | 58.0          | 65.5          | 61.7           | 6.81            | 891.45               | 0.73                | 95.55                    |
| 76.0      | 52.2          | 60.0          | 56.0           | 6.25            | 897.70               | 0.67                | 96.22                    |
| 77.0      | 46.9          | 54.3          | 50.4           | 5.68            | 903.37               | 0.61                | 96.82                    |
| 78.0      | 41.4          | 48.9          | 45.1           | 5.12            | 908.49               | 0.55                | 97.37                    |
| 79.0      | 36.6          | 43.6          | 40.0           | 4.57            | 913.06               | 0.49                | 97.86                    |
| 80.0      | 31.3          | 38.5          | 34.7           | 4.03            | 917.09               | 0.43                | 98.29                    |
| 81.0      | 26.3          | 33.3          | 29.7           | 3.48            | 920.57               | 0.37                | 98.67                    |
| 82.0      | 21.6          | 28.5          | 24.9           | 2.96            | 923.53               | 0.32                | 98.99                    |
| 83.0      | 17.5          | 23.8          | 20.4           | 2.47            | 926.00               | 0.26                | 99.25                    |
| 84.0      | 13.2          | 19.1          | 16.1           | 1.99            | 927.99               | 0.21                | 99.46                    |
| 85.0      | 9.6           | 15.0          | 12.0           | 1.53            | 929.52               | 0.16                | 99.63                    |
| 86.0      | 6.2           | 11.2          | 8.4            | 1.12            | 930.64               | 0.12                | 99.75                    |
| 87.0      | 3.6           | 7.6           | 5.3            | 0.75            | 931.39               | 0.08                | 99.83                    |
| 88.0      | 1.7           | 4.7           | 3.0            | 0.46            | 931.85               | 0.05                | 99.88                    |
| 89.0      | 0.7           | 2.4           | 1.4            | 0.24            | 932.09               | 0.03                | 99.90                    |
| 90.0      | 0.6           | 1.2           | 0.8            | 0.12            | 932.21               | 0.01                | 99.92                    |
| 91.0      | 0.6           | 0.8           | 0.7            | 0.08            | 932.29               | 0.01                | 99.92                    |
| 92.0      | 0.6           | 0.9           | 0.7            | 0.08            | 932.37               | 0.01                | 99.93                    |
| 93.0      | 0.6           | 0.9           | 0.7            | 0.08            | 932.45               | 0.01                | 99.94                    |
| 94.0      | 0.6           | 0.8           | 0.7            | 0.08            | 932.53               | 0.01                | 99.95                    |
| 95.0      | 0.6           | 0.8           | 0.7            | 0.08            | 932.61               | 0.01                | 99.96                    |
| 96.0      | 0.6           | 0.8           | 0.7            | 0.08            | 932.69               | 0.01                | 99.97                    |
| 97.0      | 0.6           | 0.8           | 0.7            | 0.08            | 932.76               | 0.01                | 99.97                    |
| 98.0      | 0.6           | 0.8           | 0.7            | 0.08            | 932.84               | 0.01                | 99.98                    |
| 99.0      | 0.6           | 0.8           | 0.7            | 0.08            | 932.92               | 0.01                | 99.99                    |
| 100.0     | 0.6           | 0.8           | 0.7            | 0.08            | 933.00               | 0.01                | 100.00                   |



OPPLE Lighting Lab

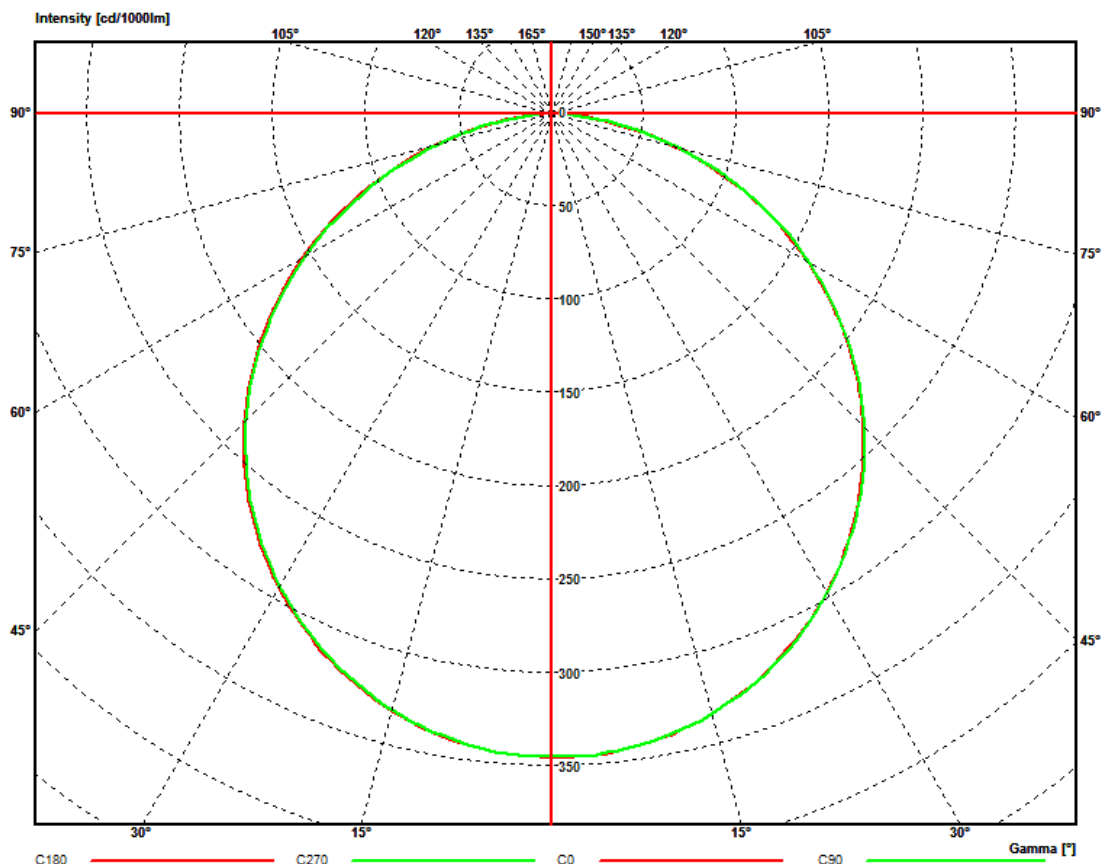
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| <b>Date:</b>         | 5/18/2017 5:23:06 PM                            | <b>Operator:</b>         | SLY        |

**Polar diagram OPZS201705098-06002-sidaitongdeng-fang12W-3000K / C-Plane measurement**





OPPLE Lighting Lab

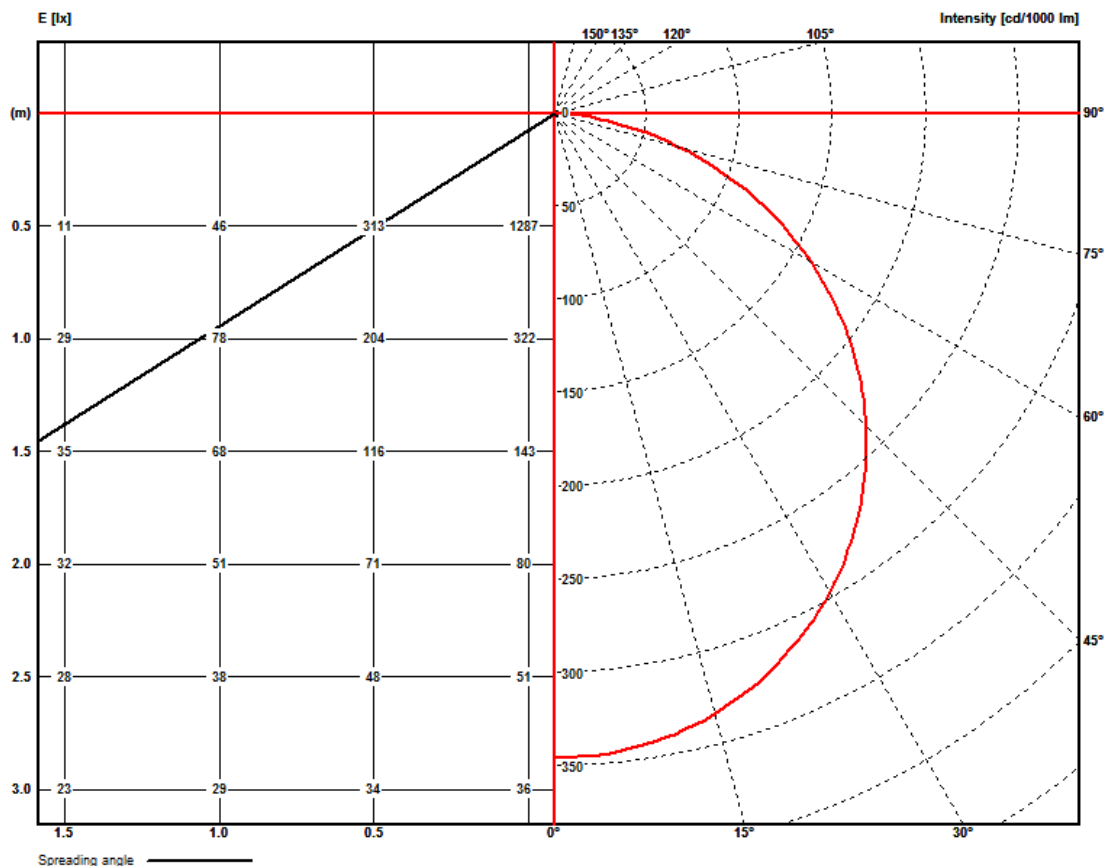
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|                      |   |                          |            |
|----------------------|---|--------------------------|------------|
| <b>Name:</b>         | OPZS201705098-06002-sidaitongdeng-fang12W-3000K |                          |            |
| <b>Program:</b>      | Far-C15-G1-Downlight                            |                          |            |
| <b>Lum. flux:</b>    | 933.00 lm                                       | <b>Av. Voltage:</b>      | 219.9857 V |
| <b>Efficacy:</b>     | 81.27 lm/ W                                     | <b>Av. Current:</b>      | 0.09574 A  |
| <b>Maximum:</b>      | 321.695 cd                                      | <b>Av. Power:</b>        | 11.474 W   |
| <b>FluxCone-90:</b>  | 497.16 lm                                       | <b>Av. Power Factor:</b> | 0.5448     |
| <b>FluxCone-120:</b> | 734.76 lm                                       | <b>Company:</b>          | Oppl       |
| <b>Date:</b>         | 5/18/2017 5:23:06 PM                            | <b>Operator:</b>         | SLY        |

### Illuminance and Intensity diagram OPZS201705098-06002-sidaitongdeng-fang12W-3000K / C-Plane measurement





OPPLE Lighting Lab

欧普照明实验室

## PHOTOMETRIC RESULTS



|                      |   |                          |            |
|----------------------|---|--------------------------|------------|
| <b>Name:</b>         | OPZS201705098-06002-sidaitongdeng-fang12W-3000K |                          |            |
| <b>Program:</b>      | Far-C15-G1-Downlight                            |                          |            |
| <b>Lum. flux:</b>    | 933.00 lm                                       | <b>Av. Voltage:</b>      | 219.9857 V |
| <b>Efficacy:</b>     | 81.27 lm/ W                                     | <b>Av. Current:</b>      | 0.09574 A  |
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| <b>FluxCone-90:</b>  | 497.16 lm                                       | <b>Av. Power Factor:</b> | 0.5448     |
| <b>FluxCone-120:</b> | 734.76 lm                                       | <b>Company:</b>          | Oppl       |
| <b>Date:</b>         | 5/18/2017 5:23:06 PM                            | <b>Operator:</b>         | SLY        |

Cartesian diagram OPZS201705098-06002-sidaitongdeng-fang12W-3000K / C-Plane measurement

