

# Report of Test

## LLIA001007-001-R02\*

\*This test report supersedes test report LLIA001007-001-R01

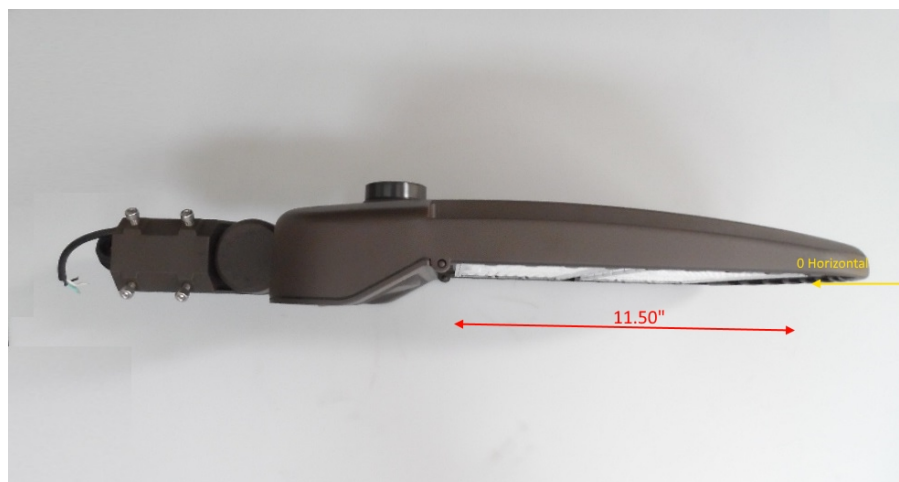
Catalog Number: F-ARL/300/50K/S3

Pole mounted, cast aluminum housing, clear plastic enclosure.

308 white LEDs, 2 150W-7C22B-3030-A1 LED boards with 154 LEDs per board.

One Shenzhen Sosen Electronics Co SS-320V-54B LED driver.

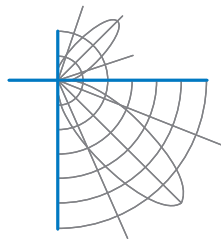
120.0Vac, 60.00Hz, 2.473A, 296.4W, 0.998PF, 4.6%THD(i)



### Performance Summary

|                    |            |                         |          |
|--------------------|------------|-------------------------|----------|
| Total Light Output | 37571 lm   | Power Factor            | 0.998    |
| Luminaire Power    | 296.4 W    | THD(i)                  | 4.6 %    |
| Luminous Efficacy  | 126.8 lm/W | Lateral Classification  | Type III |
|                    |            | Vertical Classification | Medium   |
|                    |            | % of Luminous Flux      |          |
|                    |            | 0-90° Zone              | 100.0 %  |
| BUG Rating         | B4-U2-G5   | 80°-90° Zone            | 3.1 %    |

**PREPARED FOR : Topaz Lighting Corp, 925 Waverly Avenue, Holtsville, NY 11742, USA**



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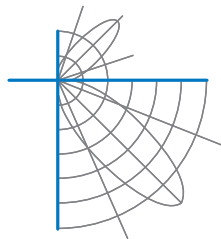
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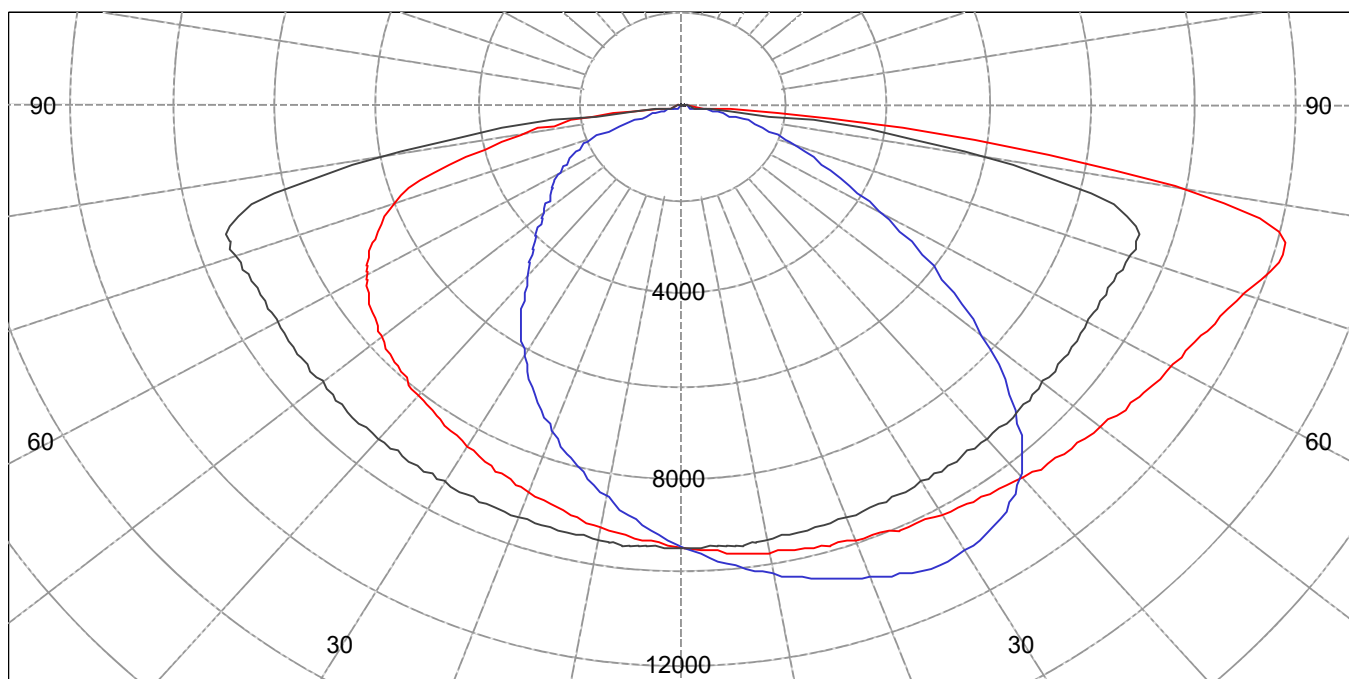
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**Polar Light Distribution Curves**



House side / L270

L90 / 270 - Black, Plane of maximum - Red, L0 / 180 - Blue (cd)

Street side / L90

**Percentage Outputs**

|             | Upward | Downward | Total   |
|-------------|--------|----------|---------|
| Street Side | 0.0 %  | 62.0 %   | 62.1 %  |
| House Side  | 0.0 %  | 37.9 %   | 37.9 %  |
|             | 0.0 %  | 100.0 %  | 100.0 % |

Report data based on absolute values as measured.

Signed:

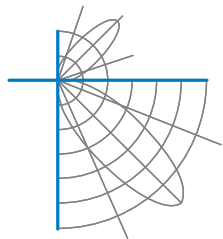
Authorized Signatory

Date of test

27-Jul-2018

Date of report

01-Aug-2018



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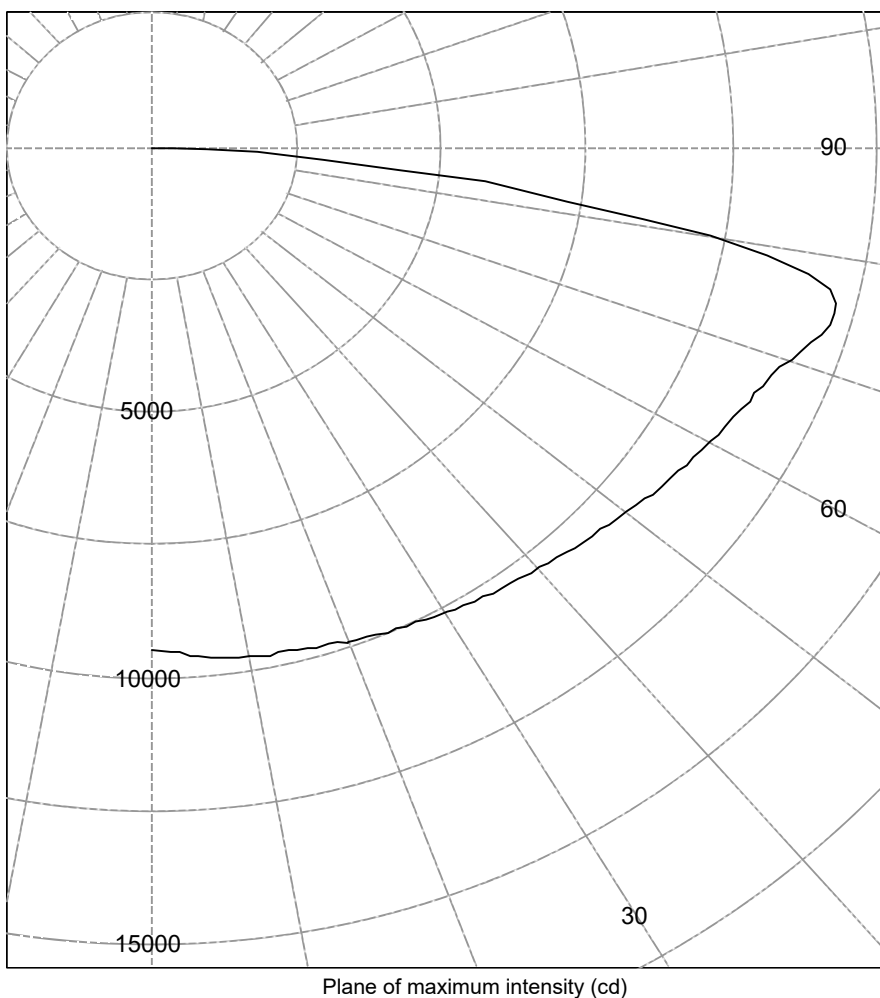
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Intensity in principal plane  
(based on overall max intensity)

| Vertical<br>Angle (°) | (L72.5)<br>Intensity<br>(cd) |
|-----------------------|------------------------------|
| 0.0                   | 9465.4                       |
| 10.0                  | 9732.7                       |
| 20.0                  | 9900.1                       |
| 30.0                  | 10125.0                      |
| 35.0                  | 10241.2                      |
| 40.0                  | 10373.2                      |
| 45.0                  | 10525.8                      |
| 47.5                  | 10604.7                      |
| 50.0                  | 10690.8                      |
| 52.5                  | 10786.2                      |
| 55.0                  | 10887.9                      |
| 57.5                  | 10994.5                      |
| 60.0                  | 11100.2                      |
| 62.5                  | 11211.0                      |
| 65.0                  | 11334.8                      |
| 67.5                  | 11490.5                      |
| 70.0                  | 11714.7                      |
| 72.5                  | 12002.6                      |
| 75.0                  | 12169.5                      |
| 77.5                  | 11789.7                      |
| 80.0                  | 9780.9                       |
| 82.5                  | 6523.0                       |
| 85.0                  | 2973.8                       |
| 87.5                  | 645.9                        |
| 90.0                  | 0.7                          |
| 92.5                  | 0.0                          |
| 95.0                  | 0.0                          |
| 97.5                  | 0.0                          |
| 100.0                 | 0.0                          |
| 102.5                 | 0.1                          |
| 105.0                 | 0.4                          |
| 120.0                 | 1.9                          |
| 135.0                 | 2.9                          |
| 150.0                 | 4.9                          |
| 165.0                 | 1.2                          |
| 180.0                 | 0.2                          |

### Principal Vertical Plane



House side max intensity

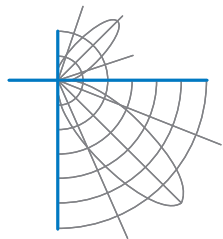
9485.0 cd @ (90.0°, 7.5°)

Street side max intensity

12169.5 cd @ (72.5°, 75.0°)

Coordinates expressed in the C Type coordinate system

Data for the two symmetric halves of the luminaire has been averaged.



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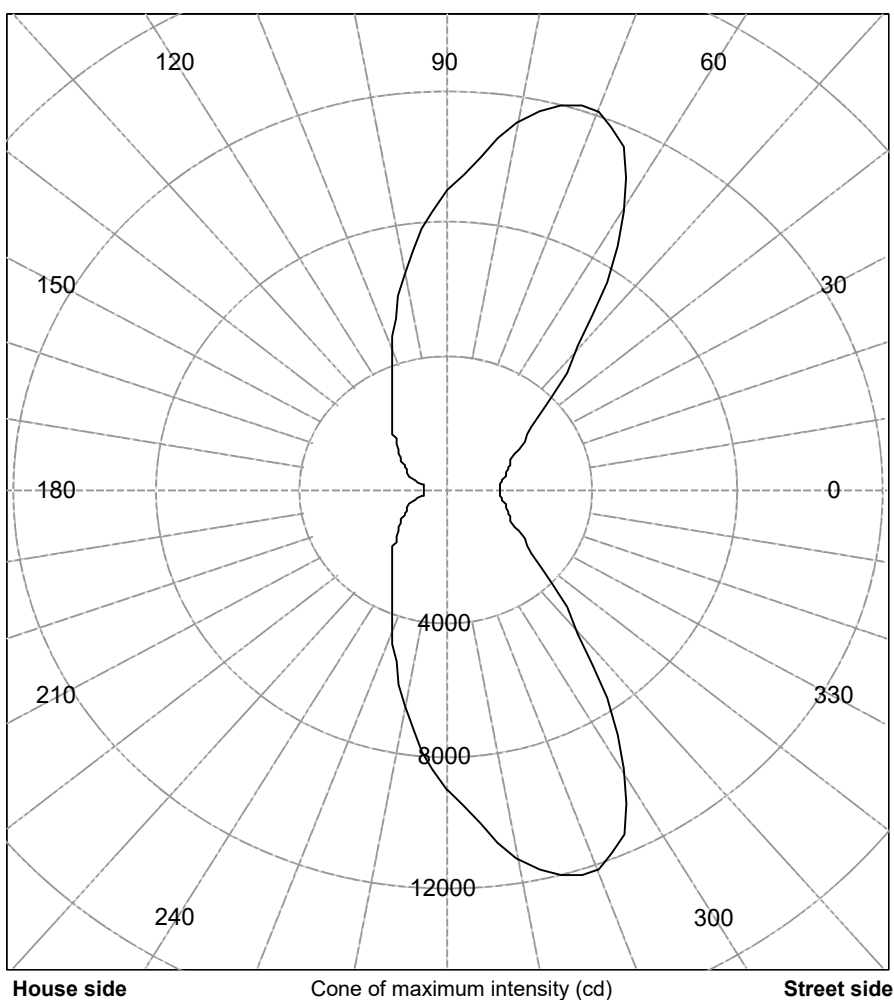
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Intensity in principal cone  
(based on overall max intensity)

| Lateral<br>Plane (°) | (V75.0)<br>(cd) |
|----------------------|-----------------|
| 0                    | 1467.7          |
| 15                   | 1636.0          |
| 30                   | 2122.6          |
| 40                   | 3036.0          |
| 45                   | 4085.1          |
| 50                   | 5594.7          |
| 55                   | 7610.9          |
| 60                   | 9755.9          |
| 65                   | 11400.9         |
| 70                   | 12128.4         |
| 75                   | 12026.9         |
| 80                   | 11219.9         |
| 85                   | 10063.9         |
| 90                   | 9013.6          |
| 95                   | 7893.1          |
| 100                  | 6620.2          |
| 105                  | 5369.6          |
| 110                  | 4321.7          |
| 115                  | 3510.4          |
| 120                  | 2962.6          |
| 125                  | 2574.5          |
| 130                  | 2260.9          |
| 135                  | 1948.2          |
| 140                  | 1711.5          |
| 150                  | 1349.3          |
| 165                  | 719.9           |
| 180                  | 624.4           |

### Principal Conical Surface



House side max intensity

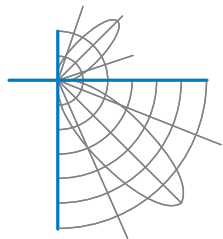
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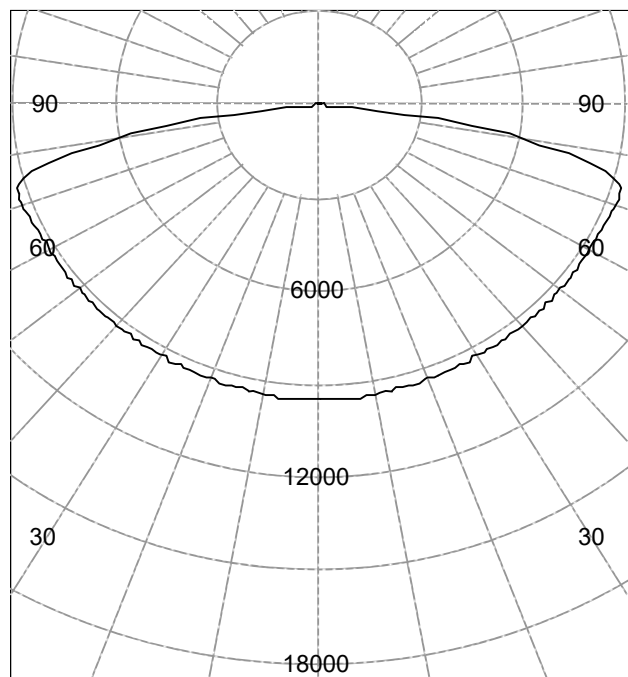
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**Polar curve through L90 / L270**

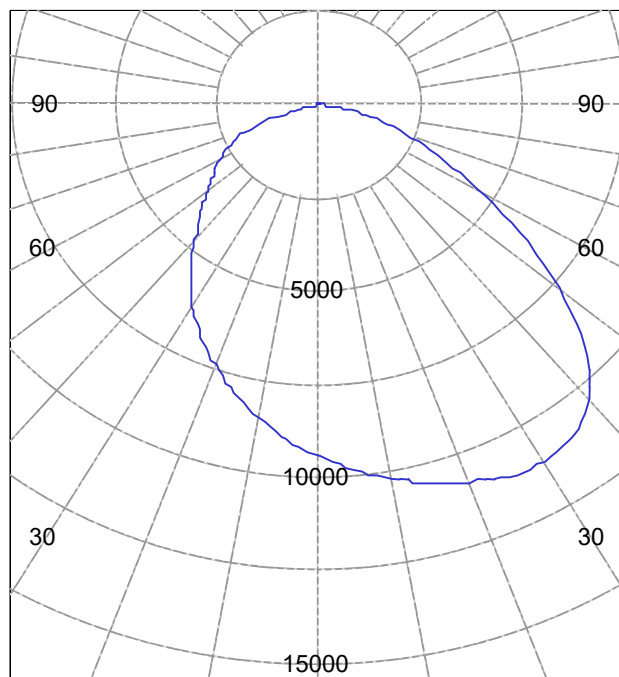


(L90)

(cd)

(L270)

**Polar curve through L0 / L180**

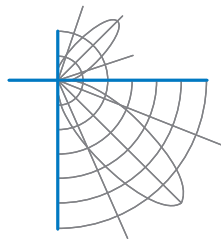


House side (L180)

(cd)

Street side (L0)





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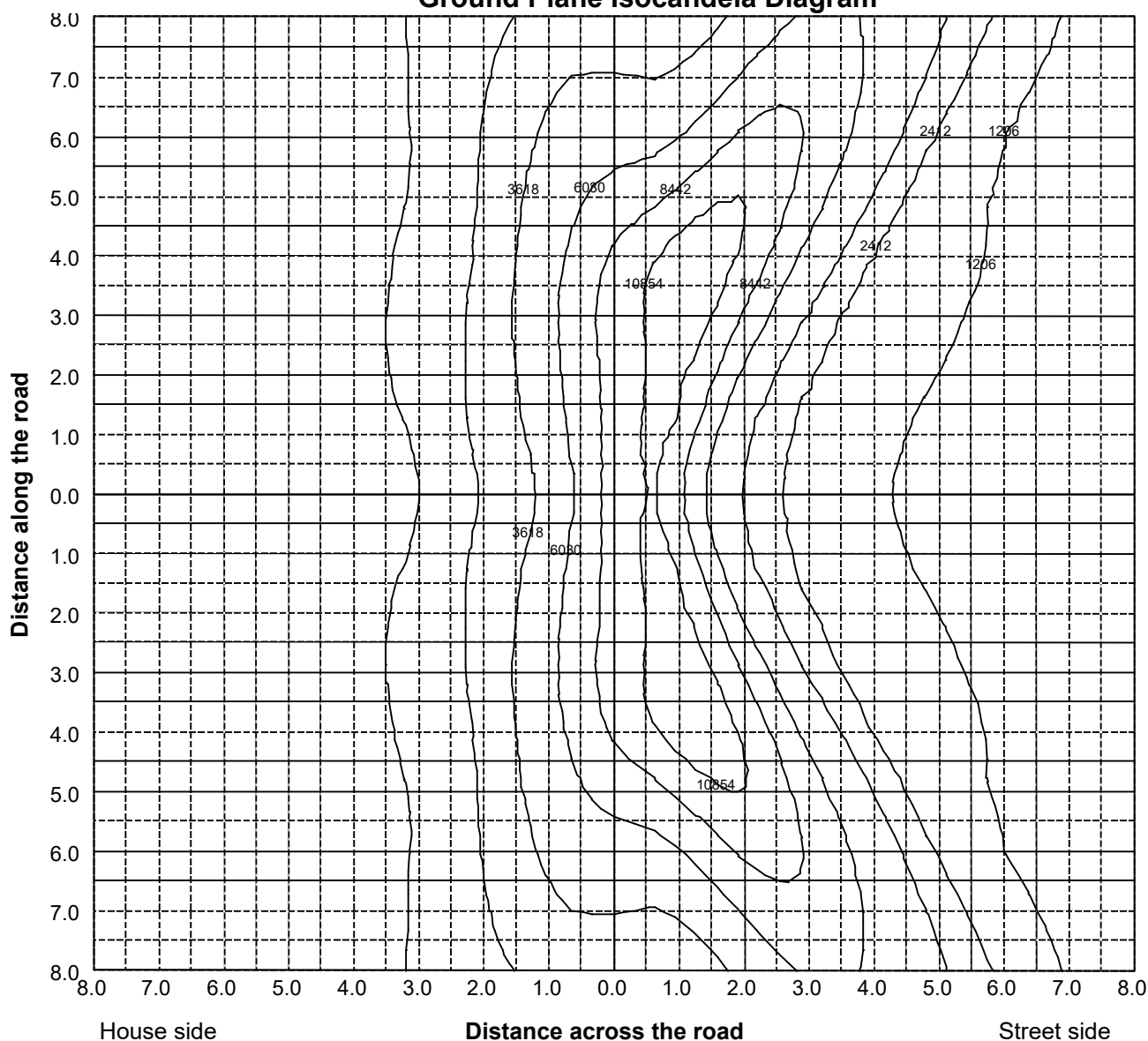
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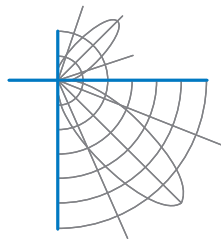
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**Ground Plane Isocandela Diagram**



The isocandela contour units are expressed as cd

Upstream and downstream sides have been averaged.



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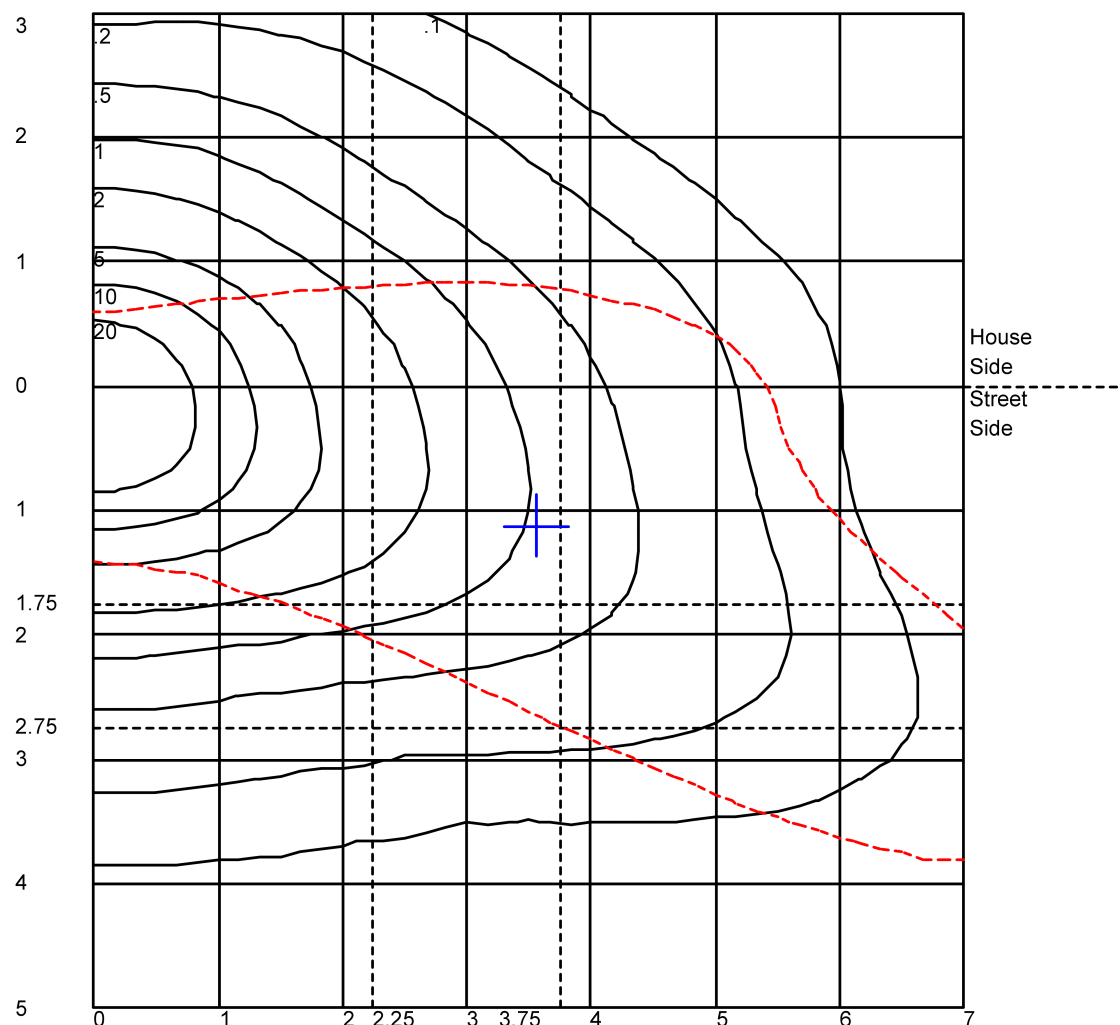
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**ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE**



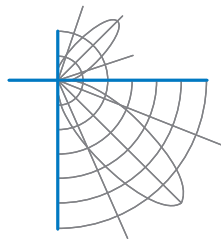
Distance In Units Of Mounting Height

Values Based On 15 Foot Mounting Height

1/2 Maximum Candela Trace Shown As Dashed Curve

(+) = Maximum Candela Point





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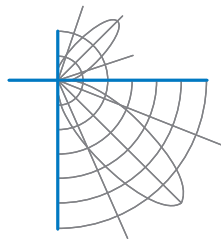
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### Intensity data (cd)

| Vertical | L-Plane |       |       |       |       |       |       |       |       |
|----------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
|          | L0      | L15   | L30   | L40   | L45   | L50   | L55   | L60   | L65   |
| 0.0      | 9465    | 9465  | 9465  | 9465  | 9465  | 9465  | 9465  | 9465  | 9465  |
| 10.0     | 10193   | 10197 | 10168 | 10123 | 10076 | 10036 | 9972  | 9912  | 9837  |
| 20.0     | 10763   | 10761 | 10660 | 10549 | 10470 | 10398 | 10302 | 10202 | 10086 |
| 30.0     | 11033   | 11071 | 11075 | 11012 | 10929 | 10834 | 10707 | 10567 | 10402 |
| 35.0     | 10825   | 10922 | 11101 | 11193 | 11159 | 11074 | 10935 | 10766 | 10571 |
| 40.0     | 10273   | 10488 | 10944 | 11203 | 11266 | 11272 | 11167 | 10987 | 10759 |
| 45.0     | 9178    | 9547  | 10464 | 11044 | 11220 | 11330 | 11343 | 11221 | 10978 |
| 47.5     | 8444    | 8877  | 10041 | 10860 | 11135 | 11311 | 11383 | 11324 | 11095 |
| 50.0     | 7634    | 8106  | 9483  | 10572 | 10982 | 11259 | 11394 | 11401 | 11214 |
| 52.5     | 6801    | 7273  | 8799  | 10160 | 10736 | 11150 | 11374 | 11447 | 11325 |
| 55.0     | 5979    | 6437  | 8013  | 9618  | 10376 | 10966 | 11313 | 11458 | 11415 |
| 57.5     | 5173    | 5612  | 7163  | 8951  | 9887  | 10681 | 11196 | 11441 | 11473 |
| 60.0     | 4426    | 4811  | 6292  | 8172  | 9269  | 10278 | 11002 | 11389 | 11496 |
| 62.5     | 3775    | 4084  | 5433  | 7305  | 8525  | 9744  | 10710 | 11281 | 11492 |
| 65.0     | 3203    | 3460  | 4606  | 6403  | 7688  | 9083  | 10303 | 11117 | 11473 |
| 67.5     | 2694    | 2908  | 3840  | 5507  | 6778  | 8305  | 9774  | 10884 | 11449 |
| 70.0     | 2252    | 2431  | 3163  | 4650  | 5860  | 7437  | 9143  | 10579 | 11438 |
| 72.5     | 1860    | 2017  | 2598  | 3813  | 4966  | 6520  | 8421  | 10214 | 11452 |
| 75.0     | 1468    | 1636  | 2123  | 3036  | 4085  | 5595  | 7611  | 9756  | 11401 |
| 77.5     | 1120    | 1283  | 1713  | 2350  | 3219  | 4661  | 6649  | 9062  | 11064 |
| 80.0     | 816     | 971   | 1344  | 1753  | 2348  | 3632  | 5521  | 7950  | 10039 |
| 82.5     | 544     | 691   | 979   | 1182  | 1451  | 2296  | 4017  | 6016  | 7582  |
| 85.0     | 312     | 430   | 600   | 657   | 743   | 1110  | 2119  | 3422  | 4070  |
| 87.5     | 104     | 170   | 209   | 222   | 218   | 327   | 667   | 928   | 1007  |
| 90.0     | 1       | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| 92.5     | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| 95.0     | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| 97.5     | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| 100.0    | 1       | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| 102.5    | 5       | 2     | 1     | 0     | 0     | 0     | 0     | 0     | 0     |
| 105.0    | 9       | 4     | 1     | 0     | 0     | 0     | 0     | 0     | 0     |
| 120.0    | 18      | 11    | 6     | 4     | 3     | 2     | 2     | 2     | 2     |
| 135.0    | 9       | 7     | 6     | 5     | 4     | 4     | 3     | 3     | 3     |
| 150.0    | 4       | 3     | 3     | 3     | 3     | 4     | 4     | 4     | 4     |
| 165.0    | 1       | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| 180.0    | 0       | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |



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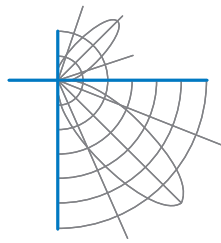
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### Intensity data (cd)

| Vertical | L-Plane |       |       |       |      |      |      |      |      |
|----------|---------|-------|-------|-------|------|------|------|------|------|
|          | L70     | L75   | L80   | L85   | L90  | L95  | L100 | L105 | L110 |
| 0.0      | 9465    | 9465  | 9465  | 9465  | 9465 | 9465 | 9465 | 9465 | 9465 |
| 10.0     | 9765    | 9697  | 9627  | 9546  | 9467 | 9394 | 9314 | 9233 | 9161 |
| 20.0     | 9962    | 9837  | 9702  | 9543  | 9390 | 9233 | 9067 | 8903 | 8743 |
| 30.0     | 10216   | 10027 | 9814  | 9571  | 9331 | 9084 | 8827 | 8579 | 8335 |
| 35.0     | 10349   | 10122 | 9868  | 9583  | 9300 | 9009 | 8709 | 8420 | 8139 |
| 40.0     | 10499   | 10233 | 9935  | 9608  | 9277 | 8941 | 8603 | 8275 | 7946 |
| 45.0     | 10678   | 10361 | 10017 | 9639  | 9257 | 8879 | 8502 | 8131 | 7734 |
| 47.5     | 10773   | 10427 | 10057 | 9655  | 9243 | 8845 | 8449 | 8050 | 7626 |
| 50.0     | 10873   | 10497 | 10098 | 9672  | 9231 | 8808 | 8395 | 7957 | 7512 |
| 52.5     | 10983   | 10573 | 10139 | 9693  | 9221 | 8769 | 8334 | 7857 | 7386 |
| 55.0     | 11099   | 10655 | 10182 | 9717  | 9213 | 8728 | 8267 | 7755 | 7246 |
| 57.5     | 11215   | 10741 | 10225 | 9741  | 9197 | 8680 | 8182 | 7635 | 7077 |
| 60.0     | 11315   | 10836 | 10273 | 9765  | 9184 | 8632 | 8082 | 7499 | 6873 |
| 62.5     | 11398   | 10943 | 10333 | 9792  | 9180 | 8593 | 7977 | 7337 | 6623 |
| 65.0     | 11476   | 11075 | 10427 | 9829  | 9194 | 8572 | 7880 | 7148 | 6330 |
| 67.5     | 11573   | 11269 | 10599 | 9920  | 9245 | 8565 | 7769 | 6914 | 5983 |
| 70.0     | 11729   | 11555 | 10873 | 10089 | 9330 | 8551 | 7613 | 6605 | 5577 |
| 72.5     | 11961   | 11893 | 11188 | 10244 | 9346 | 8407 | 7307 | 6143 | 5070 |
| 75.0     | 12128   | 12027 | 11220 | 10064 | 9014 | 7893 | 6620 | 5370 | 4322 |
| 77.5     | 11919   | 11346 | 10023 | 8719  | 7844 | 6810 | 5551 | 4360 | 3408 |
| 80.0     | 10407   | 8815  | 6980  | 5890  | 5614 | 5103 | 4201 | 3292 | 2571 |
| 82.5     | 7417    | 5382  | 3550  | 2855  | 3067 | 3176 | 2787 | 2280 | 1799 |
| 85.0     | 3703    | 2151  | 1034  | 704   | 958  | 1456 | 1563 | 1248 | 777  |
| 87.5     | 878     | 443   | 244   | 157   | 162  | 386  | 341  | 190  | 107  |
| 90.0     | 1       | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    |
| 92.5     | 0       | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    |
| 95.0     | 0       | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    |
| 97.5     | 0       | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    |
| 100.0    | 0       | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    |
| 102.5    | 0       | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    |
| 105.0    | 0       | 0     | 0     | 0     | 0    | 1    | 1    | 1    | 1    |
| 120.0    | 2       | 2     | 2     | 2     | 2    | 2    | 2    | 2    | 2    |
| 135.0    | 3       | 3     | 3     | 3     | 3    | 3    | 3    | 3    | 3    |
| 150.0    | 5       | 5     | 5     | 5     | 5    | 5    | 5    | 5    | 5    |
| 165.0    | 1       | 1     | 1     | 1     | 1    | 1    | 1    | 1    | 1    |
| 180.0    | 0       | 0     | 0     | 0     | 0    | 0    | 0    | 0    | 0    |



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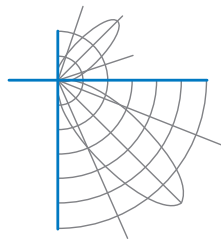
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120.0Vac, 60.00Hz, 2.473A, 296.4W, 0.998PF, 4.6%THD(i)

### Intensity data (cd)

| Vertical | L-Plane |      |      |      |      |      |      |      |      |
|----------|---------|------|------|------|------|------|------|------|------|
|          | L115    | L120 | L125 | L130 | L135 | L140 | L150 | L165 | L180 |
| 0.0      | 9465    | 9465 | 9465 | 9465 | 9465 | 9465 | 9465 | 9465 | 9465 |
| 10.0     | 9085    | 9013 | 8958 | 8886 | 8819 | 8756 | 8630 | 8518 | 8522 |
| 20.0     | 8586    | 8434 | 8304 | 8164 | 8037 | 7916 | 7696 | 7464 | 7418 |
| 30.0     | 8102    | 7870 | 7645 | 7425 | 7221 | 7022 | 6668 | 6311 | 6194 |
| 35.0     | 7859    | 7576 | 7317 | 7056 | 6804 | 6561 | 6113 | 5641 | 5480 |
| 40.0     | 7610    | 7287 | 6975 | 6662 | 6351 | 6048 | 5499 | 4931 | 4746 |
| 45.0     | 7358    | 6978 | 6597 | 6206 | 5829 | 5471 | 4854 | 4272 | 4088 |
| 47.5     | 7220    | 6803 | 6380 | 5947 | 5538 | 5163 | 4541 | 3986 | 3812 |
| 50.0     | 7068    | 6608 | 6135 | 5665 | 5230 | 4846 | 4247 | 3731 | 3565 |
| 52.5     | 6897    | 6384 | 5861 | 5354 | 4909 | 4531 | 3975 | 3502 | 3343 |
| 55.0     | 6701    | 6126 | 5553 | 5028 | 4587 | 4229 | 3729 | 3295 | 3142 |
| 57.5     | 6468    | 5832 | 5224 | 4697 | 4277 | 3950 | 3501 | 3102 | 2954 |
| 60.0     | 6187    | 5500 | 4880 | 4371 | 3985 | 3694 | 3285 | 2913 | 2770 |
| 62.5     | 5859    | 5137 | 4525 | 4048 | 3709 | 3448 | 3070 | 2712 | 2559 |
| 65.0     | 5496    | 4757 | 4164 | 3734 | 3433 | 3199 | 2842 | 2474 | 2315 |
| 67.5     | 5105    | 4365 | 3805 | 3416 | 3138 | 2922 | 2579 | 2194 | 2039 |
| 70.0     | 4678    | 3949 | 3438 | 3080 | 2817 | 2605 | 2255 | 1797 | 1576 |
| 72.5     | 4176    | 3500 | 3038 | 2702 | 2445 | 2226 | 1786 | 1266 | 939  |
| 75.0     | 3510    | 2963 | 2574 | 2261 | 1948 | 1711 | 1349 | 720  | 624  |
| 77.5     | 2748    | 2278 | 1921 | 1616 | 1410 | 1235 | 930  | 442  | 403  |
| 80.0     | 2035    | 1565 | 1188 | 988  | 864  | 754  | 507  | 236  | 217  |
| 82.5     | 1153    | 599  | 402  | 344  | 377  | 380  | 247  | 126  | 116  |
| 85.0     | 403     | 228  | 165  | 136  | 136  | 152  | 58   | 12   | 0    |
| 87.5     | 86      | 58   | 47   | 36   | 33   | 27   | 15   | 4    | 0    |
| 90.0     | 0       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 92.5     | 0       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 95.0     | 0       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 97.5     | 0       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 100.0    | 0       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 102.5    | 1       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 105.0    | 1       | 1    | 1    | 0    | 0    | 0    | 0    | 0    | 1    |
| 120.0    | 3       | 2    | 2    | 2    | 2    | 2    | 2    | 3    | 6    |
| 135.0    | 3       | 3    | 3    | 4    | 4    | 5    | 4    | 4    | 4    |
| 150.0    | 4       | 4    | 4    | 4    | 4    | 3    | 3    | 3    | 3    |
| 165.0    | 1       | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| 180.0    | 0       | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |



**Test Number: LLIA001007-001-R02**

Catalog Number: F-ARL/300/50K/S3

Pole mounted, cast aluminum housing, clear plastic enclosure.

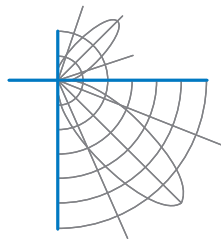
308 white LEDs, 2 150W-7C22B-3030-A1 LED boards with 154 LEDs per board.

One Shenzhen Sosen Electronics Co SS-320V-54B LED driver.

120.0Vac, 60.00Hz, 2.473A, 296.4W, 0.998PF, 4.6%THD(i)

**Circle of Light Plot**

| Height(ft) | Illuminance at Nadir (fc) | Beam Width<br>(across 50% Nadir Illum) |        |
|------------|---------------------------|----------------------------------------|--------|
|            |                           | 0-180                                  | 90-270 |
| 6.0        | 262.9                     | 7.97                                   | 9.04   |
| 8.0        | 147.9                     | 10.63                                  | 12.06  |
| 10.0       | 94.7                      | 13.29                                  | 15.07  |
| 12.0       | 65.7                      | 15.95                                  | 18.08  |
| 14.0       | 48.3                      | 18.60                                  | 21.10  |
| 16.0       | 37.0                      | 21.26                                  | 24.11  |



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One Shenzhen Sosen Electronics Co SS-320V-54B LED driver.

120.0Vac, 60.00Hz, 2.473A, 296.4W, 0.998PF, 4.6%THD(i)

**Test Distance** 9.5 m  
**Test Temperature** 25.6 °C

### Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2015, ANSI C82.77-10:2014.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the IESNA Type C coordinate system (L, V) as defined in IESNA publication LM-75.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with \* are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.