

# Report of Test

## LLIA002372-002

Catalog Number: FL-30PCS-KNTR - 25W Setting - 4000K Setting  
Knuckle or trunion mounted, formed aluminum housing, white  
plastic reflector, clear glass enclosure in front of LEDs  
96 LEDs, 48 cool white and 48 warm white LEDs  
Internal LED driver  
120.0Vac, 60.00Hz, 0.1995A, 23.60W, 0.986PF, 13.1%THD(i)



### Performance Summary

|                    |                     |      |                    |                           |
|--------------------|---------------------|------|--------------------|---------------------------|
| Total Light Output | 3810                | lm   | Illuminance at 10m | 13.9 lux                  |
| Luminaire Power    | 23.6                | W    | Beam Distance      | 74.5 Meters (to 0.25 lux) |
| Luminous Efficacy  | 161.4               | lm/W |                    |                           |
| Beam Spread (50%)  | 113.7° V x 114.0° H |      | Maximum Intensity  | 1389.4 cd                 |
| Field Spread (10%) | 142.6° V x 155.0° H |      |                    |                           |
| NEMA Type          | 7H x 7V             |      |                    |                           |

**PREPARED FOR : Topaz Lighting, A Southwire Company, 925 Waverly Ave, Holtsville, NY**



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### Floodlight Summary:

Report data based on absolute values as measured.

|                                    |        |            |
|------------------------------------|--------|------------|
| Maximum Luminous Intensity         | 1389.4 | cd         |
| (Luminaire orientation as tested.) | -0.5°  | vertical   |
|                                    | -0.9°  | horizontal |

|             |                         |          |   |          |
|-------------|-------------------------|----------|---|----------|
| Beam Spread | At 10% of max intensity | 142.6° V | x | 155.0° H |
|             | At 50% of max intensity | 113.7° V | x | 114.0° H |
|             | At 90% of max intensity | 50.6° V  | x | 51.9° H  |

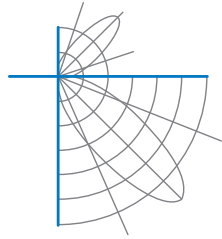
|           |                         |         |
|-----------|-------------------------|---------|
| Beam Flux | Total                   | 3810 lm |
|           | To 10% of max intensity | 3756 lm |
|           | To 50% of max intensity | 3020 lm |
|           | To 90% of max intensity | 788 lm  |

|                    |           |
|--------------------|-----------|
| Total Light Output | 3810.4 lm |
|--------------------|-----------|

Signed:

Authorized Signatory

|                |            |
|----------------|------------|
| Date of test   | 7-May-2024 |
| Date of report | 8-May-2024 |



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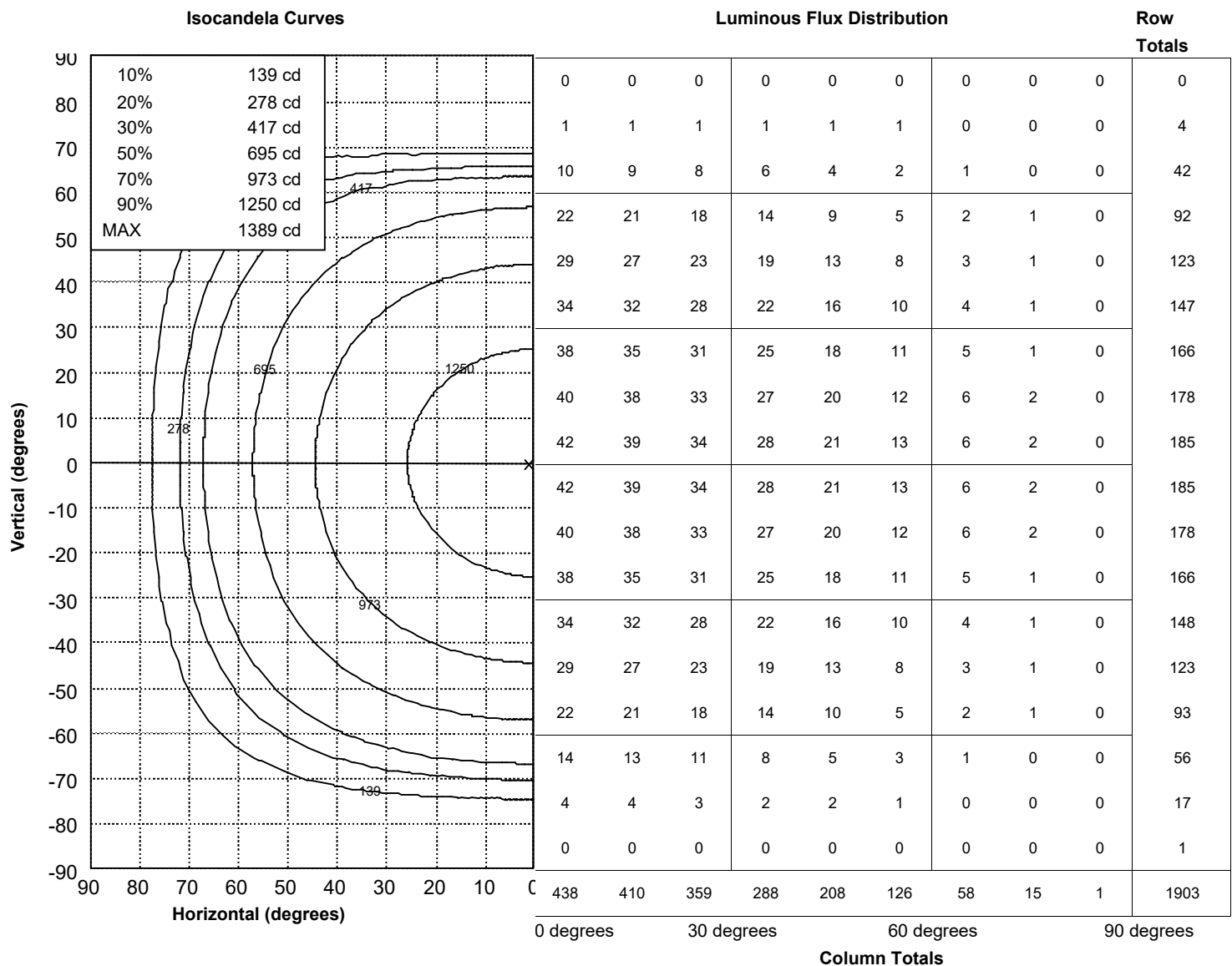
Knuckle or trunion mounted, formed aluminum housing, white

plastic reflector, clear glass enclosure in front of LEDs

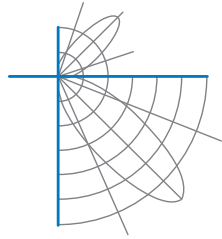
96 LEDs, 48 cool white and 48 warm white LEDs

Internal LED driver

120.0Vac, 60.00Hz, 0.1995A, 23.60W, 0.986PF, 13.1%THD(i)



Note: Left and right sides of photometric data have been averaged.  
Lumen values are tabulated as absolute lumen values.  
Candela values are tabulated as absolute candela values.



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| Vertical<br>Angle (degrees) | Left Side Horizontal Angle (degrees) |              |              |               |               |                |                |                |                | Lumen<br>Totals |
|-----------------------------|--------------------------------------|--------------|--------------|---------------|---------------|----------------|----------------|----------------|----------------|-----------------|
|                             | -90                                  | -60          |              |               | -30           |                |                | 0              |                |                 |
| -90                         | 0.8<br>0.0                           | 1.9<br>0.0   | 2.2<br>0.0   | 4.1<br>0.1    | 5.1<br>0.2    | 5.0<br>0.2     | 6.6<br>0.2     | 6.0<br>0.2     | 6.2<br>0.2     | 1               |
|                             | 2.1<br>0.0                           | 6.2<br>0.1   | 31.8<br>0.4  | 58.8<br>1.0   | 65.2<br>1.6   | 90.0<br>2.4    | 104.6<br>3.2   | 115.0<br>3.8   | 123.7<br>4.2   | 17              |
|                             | 3.4<br>0.0                           | 31.1<br>0.3  | 96.8<br>1.3  | 159.5<br>2.9  | 254.0<br>5.5  | 330.5<br>8.2   | 401.3<br>10.9  | 448.2<br>12.9  | 474.2<br>14.0  | 56              |
| -60                         | 5.3<br>0.0                           | 69.5<br>0.6  | 165.4<br>2.2 | 310.3<br>5.4  | 445.1<br>9.6  | 561.6<br>14.0  | 649.6<br>17.8  | 709.7<br>20.8  | 741.5<br>22.4  | 93              |
|                             | 9.6<br>0.1                           | 104.1<br>0.9 | 255.1<br>3.4 | 444.8<br>7.8  | 615.2<br>13.2 | 750.9<br>18.7  | 852.9<br>23.4  | 920.8<br>27.0  | 955.8<br>28.9  | 123             |
|                             | 13.3<br>0.1                          | 135.4<br>1.1 | 338.2<br>4.4 | 558.3<br>9.8  | 750.5<br>16.1 | 900.8<br>22.4  | 1012.5<br>27.8 | 1085.9<br>31.8 | 1122.7<br>33.9 | 148             |
| -30                         | 16.1<br>0.1                          | 162.0<br>1.4 | 404.1<br>5.3 | 647.9<br>11.4 | 854.3<br>18.4 | 1014.0<br>25.2 | 1131.7<br>31.1 | 1209.0<br>35.4 | 1247.1<br>37.7 | 166             |
|                             | 18.1<br>0.1                          | 180.3<br>1.6 | 448.6<br>5.9 | 709.1<br>12.4 | 923.7<br>19.8 | 1087.9<br>27.1 | 1212.2<br>33.3 | 1291.7<br>37.9 | 1331.7<br>40.3 | 178             |
|                             | 19.1<br>0.1                          | 189.7<br>1.7 | 472.7<br>6.2 | 741.7<br>13.0 | 959.0<br>20.6 | 1127.2<br>28.1 | 1253.6<br>34.5 | 1335.3<br>39.2 | 1375.4<br>41.6 | 185             |
| 0                           | 19.1<br>0.1                          | 189.4<br>1.7 | 471.8<br>6.2 | 740.8<br>12.9 | 958.3<br>20.6 | 1127.5<br>28.1 | 1253.5<br>34.5 | 1335.5<br>39.2 | 1375.2<br>41.6 | 185             |
|                             | 18.1<br>0.1                          | 179.8<br>1.6 | 448.1<br>5.9 | 708.5<br>12.4 | 923.8<br>19.8 | 1088.2<br>27.1 | 1211.9<br>33.3 | 1292.2<br>37.9 | 1331.6<br>40.3 | 178             |
|                             | 16.1<br>0.1                          | 161.5<br>1.4 | 403.2<br>5.3 | 647.0<br>11.3 | 853.8<br>18.4 | 1013.4<br>25.2 | 1130.8<br>31.1 | 1208.5<br>35.4 | 1247.1<br>37.7 | 166             |
| 30                          | 13.2<br>0.1                          | 134.9<br>1.1 | 337.5<br>4.4 | 557.5<br>9.8  | 750.1<br>16.1 | 900.8<br>22.4  | 1011.6<br>27.8 | 1084.4<br>31.8 | 1120.4<br>33.9 | 147             |
|                             | 9.6<br>0.1                           | 103.6<br>0.9 | 254.2<br>3.4 | 443.1<br>7.8  | 613.8<br>13.2 | 749.7<br>18.6  | 850.6<br>23.4  | 916.8<br>26.9  | 949.9<br>28.7  | 123             |
|                             | 5.2<br>0.0                           | 68.8<br>0.6  | 164.2<br>2.2 | 303.5<br>5.3  | 442.0<br>9.5  | 558.9<br>13.8  | 645.9<br>17.7  | 704.2<br>20.6  | 733.0<br>22.1  | 92              |
| 60                          | 3.3<br>0.0                           | 30.2<br>0.3  | 93.6<br>1.2  | 124.0<br>2.4  | 206.0<br>4.4  | 243.2<br>6.2   | 277.2<br>8.0   | 304.5<br>9.3   | 321.6<br>10.0  | 42              |
|                             | 2.0<br>0.0                           | 5.2<br>0.1   | 28.2<br>0.4  | 30.2<br>0.5   | 17.7<br>0.6   | 14.0<br>0.6    | 14.4<br>0.6    | 14.1<br>0.5    | 14.7<br>0.5    | 4               |
| 90                          | 0.7<br>0.0                           | 1.4<br>0.0   | 0.9<br>0.0   | 1.1<br>0.0    | 0.6<br>0.0    | 0.2<br>0.0     | 0.2<br>0.0     | 0.0<br>0.0     | 0.1<br>0.0     | 0               |
|                             | 1                                    | 15           | 58           | 126           | 208           | 288            | 359            | 410            | 438            | 1903            |

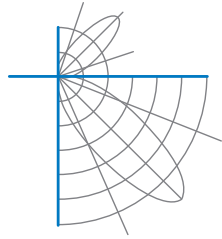
### Lumen Totals

Legend:

candelas

lumens

Standard table of intensity and illuminance in accordance with IES procedures.  
Angular data is shown with the polar axis horizontal.  
Luminous flux expressed as lumens within marked zones.  
Luminous intensity expressed as candelas at centre of zones.



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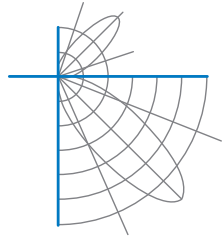
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| Vertical<br>Angle (degrees) | Right Side Horizontal Angle (degrees) |                |                |                |               |               |              |              |             | Lumen<br>Totals |
|-----------------------------|---------------------------------------|----------------|----------------|----------------|---------------|---------------|--------------|--------------|-------------|-----------------|
|                             | 0                                     | 30             | 60             | 90             |               |               |              |              |             |                 |
| -90                         | 6.2<br>0.2                            | 6.0<br>0.2     | 6.6<br>0.2     | 5.0<br>0.2     | 5.1<br>0.2    | 4.1<br>0.1    | 2.2<br>0.0   | 1.9<br>0.0   | 0.8<br>0.0  | 1               |
|                             | 123.7<br>4.2                          | 115.0<br>3.8   | 104.6<br>3.2   | 90.0<br>2.4    | 65.2<br>1.6   | 58.8<br>1.0   | 31.8<br>0.4  | 6.2<br>0.1   | 2.1<br>0.0  | 17              |
|                             | 474.2<br>14.0                         | 448.2<br>12.9  | 401.3<br>10.9  | 330.5<br>8.2   | 254.0<br>5.5  | 159.5<br>2.9  | 96.8<br>1.3  | 31.1<br>0.3  | 3.4<br>0.0  | 56              |
| -60                         | 741.5<br>22.4                         | 709.7<br>20.8  | 649.6<br>17.8  | 561.6<br>14.0  | 445.1<br>9.6  | 310.3<br>5.4  | 165.4<br>2.2 | 69.5<br>0.6  | 5.3<br>0.0  | 93              |
|                             | 955.8<br>28.9                         | 920.8<br>27.0  | 852.9<br>23.4  | 750.9<br>18.7  | 615.2<br>13.2 | 444.8<br>7.8  | 255.1<br>3.4 | 104.1<br>0.9 | 9.6<br>0.1  | 123             |
|                             | 1122.7<br>33.9                        | 1085.9<br>31.8 | 1012.5<br>27.8 | 900.8<br>22.4  | 750.5<br>16.1 | 558.3<br>9.8  | 338.2<br>4.4 | 135.4<br>1.1 | 13.3<br>0.1 | 148             |
| -30                         | 1247.1<br>37.7                        | 1209.0<br>35.4 | 1131.7<br>31.1 | 1014.0<br>25.2 | 854.3<br>18.4 | 647.9<br>11.4 | 404.1<br>5.3 | 162.0<br>1.4 | 16.1<br>0.1 | 166             |
|                             | 1331.7<br>40.3                        | 1291.7<br>37.9 | 1212.2<br>33.3 | 1087.9<br>27.1 | 923.7<br>19.8 | 709.1<br>12.4 | 448.6<br>5.9 | 180.3<br>1.6 | 18.1<br>0.1 | 178             |
|                             | 1375.4<br>41.6                        | 1335.3<br>39.2 | 1253.6<br>34.5 | 1127.2<br>28.1 | 959.0<br>20.6 | 741.7<br>13.0 | 472.7<br>6.2 | 189.7<br>1.7 | 19.1<br>0.1 | 185             |
| 0                           | 1375.2<br>41.6                        | 1335.5<br>39.2 | 1253.5<br>34.5 | 1127.5<br>28.1 | 958.3<br>20.6 | 740.8<br>12.9 | 471.8<br>6.2 | 189.4<br>1.7 | 19.1<br>0.1 | 185             |
|                             | 1331.6<br>40.3                        | 1292.2<br>37.9 | 1211.9<br>33.3 | 1088.2<br>27.1 | 923.8<br>19.8 | 708.5<br>12.4 | 448.1<br>5.9 | 179.8<br>1.6 | 18.1<br>0.1 | 178             |
|                             | 1247.1<br>37.7                        | 1208.5<br>35.4 | 1130.8<br>31.1 | 1013.4<br>25.2 | 853.8<br>18.4 | 647.0<br>11.3 | 403.2<br>5.3 | 161.5<br>1.4 | 16.1<br>0.1 | 166             |
| 30                          | 1120.4<br>33.9                        | 1084.4<br>31.8 | 1011.6<br>27.8 | 900.8<br>22.4  | 750.1<br>16.1 | 557.5<br>9.8  | 337.5<br>4.4 | 134.9<br>1.1 | 13.2<br>0.1 | 147             |
|                             | 949.9<br>28.7                         | 916.8<br>26.9  | 850.6<br>23.4  | 749.7<br>18.6  | 613.8<br>13.2 | 443.1<br>7.8  | 254.2<br>3.4 | 103.6<br>0.9 | 9.6<br>0.1  | 123             |
|                             | 733.0<br>22.1                         | 704.2<br>20.6  | 645.9<br>17.7  | 558.9<br>13.8  | 442.0<br>9.5  | 303.5<br>5.3  | 164.2<br>2.2 | 68.8<br>0.6  | 5.2<br>0.0  | 92              |
| 60                          | 321.6<br>10.0                         | 304.5<br>9.3   | 277.2<br>8.0   | 243.2<br>6.2   | 206.0<br>4.4  | 124.0<br>2.4  | 93.6<br>1.2  | 30.2<br>0.3  | 3.3<br>0.0  | 42              |
|                             | 14.7<br>0.5                           | 14.1<br>0.5    | 14.4<br>0.6    | 14.0<br>0.6    | 17.7<br>0.6   | 30.2<br>0.5   | 28.2<br>0.4  | 5.2<br>0.1   | 2.0<br>0.0  | 4               |
| 90                          | 0.1<br>0.0                            | 0.0<br>0.0     | 0.2<br>0.0     | 0.2<br>0.0     | 0.6<br>0.0    | 1.1<br>0.0    | 0.9<br>0.0   | 1.4<br>0.0   | 0.7<br>0.0  | 0               |
|                             | 438                                   | 410            | 359            | 288            | 208           | 126           | 58           | 15           | 1           | 1903            |
| Lumen Totals                |                                       |                |                |                |               |               |              |              |             |                 |

Standard table of intensity and illuminance in accordance with IES procedures.  
Angular data is shown with the polar axis horizontal.  
Luminous flux expressed as lumens within marked zones.  
Luminous intensity expressed as candelas at centre of zones.

Legend:

|          |
|----------|
| candelas |
| lumens   |



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plastic reflector, clear glass enclosure in front of LEDs

96 LEDs, 48 cool white and 48 warm white LEDs

Internal LED driver

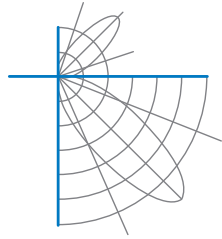
120.0Vac, 60.00Hz, 0.1995A, 23.60W, 0.986PF, 13.1%THD(i)

### Candela trace through origin.

| Vertical Trace |                |       |                |
|----------------|----------------|-------|----------------|
| Angle          | Intensity (cd) | Angle | Intensity (cd) |
| 90.0           | 0.00           | 0.0   | 1389.08        |
| 87.0           | 0.00           | -3.0  | 1386.68        |
| 84.0           | 0.05           | -6.0  | 1378.79        |
| 81.0           | 0.10           | -9.0  | 1367.98        |
| 78.0           | 2.34           | -12.0 | 1355.04        |
| 75.0           | 14.28          | -15.0 | 1338.87        |
| 72.0           | 25.85          | -18.0 | 1317.49        |
| 69.0           | 100.74         | -21.0 | 1292.58        |
| 66.0           | 252.84         | -24.0 | 1263.84        |
| 63.0           | 441.51         | -27.0 | 1231.58        |
| 60.0           | 604.75         | -30.0 | 1195.90        |
| 57.0           | 685.40         | -33.0 | 1156.31        |
| 54.0           | 761.21         | -36.0 | 1113.83        |
| 51.0           | 829.97         | -39.0 | 1068.03        |
| 48.0           | 894.31         | -42.0 | 1016.32        |
| 45.0           | 954.48         | -45.0 | 962.31         |
| 42.0           | 1011.16        | -48.0 | 902.53         |
| 39.0           | 1062.05        | -51.0 | 839.04         |
| 36.0           | 1110.77        | -54.0 | 770.35         |
| 33.0           | 1155.50        | -57.0 | 696.41         |
| 30.0           | 1195.20        | -60.0 | 618.30         |
| 27.0           | 1231.77        | -63.0 | 537.45         |
| 24.0           | 1263.69        | -66.0 | 442.08         |
| 21.0           | 1293.19        | -69.0 | 315.64         |
| 18.0           | 1317.91        | -72.0 | 208.99         |
| 15.0           | 1338.42        | -75.0 | 117.57         |
| 12.0           | 1355.61        | -78.0 | 47.99          |
| 9.0            | 1368.26        | -81.0 | 15.37          |
| 6.0            | 1379.45        | -84.0 | 8.38           |
| 3.0            | 1386.70        | -87.0 | 2.86           |
| 0.0            | 1389.08        | -90.0 | 1.21           |

| Horizontal Trace |                |       |                |
|------------------|----------------|-------|----------------|
| Angle            | Intensity (cd) | Angle | Intensity (cd) |
| 90.0             | 0.13           | 0.0   | 1389.08        |
| 87.0             | 4.73           | -3.0  | 1385.95        |
| 84.0             | 25.30          | -6.0  | 1379.40        |
| 81.0             | 77.61          | -9.0  | 1371.99        |
| 78.0             | 129.91         | -12.0 | 1358.66        |
| 75.0             | 182.21         | -15.0 | 1341.59        |
| 72.0             | 270.37         | -18.0 | 1320.67        |
| 69.0             | 358.53         | -21.0 | 1296.82        |
| 66.0             | 446.68         | -24.0 | 1269.76        |
| 63.0             | 530.71         | -27.0 | 1237.87        |
| 60.0             | 612.67         | -30.0 | 1201.64        |
| 57.0             | 694.62         | -33.0 | 1163.21        |
| 54.0             | 771.54         | -36.0 | 1118.24        |
| 51.0             | 838.35         | -39.0 | 1070.66        |
| 48.0             | 905.17         | -42.0 | 1020.45        |
| 45.0             | 964.20         | -45.0 | 964.20         |
| 42.0             | 1020.45        | -48.0 | 905.17         |
| 39.0             | 1070.66        | -51.0 | 838.35         |
| 36.0             | 1118.24        | -54.0 | 771.54         |
| 33.0             | 1163.21        | -57.0 | 694.62         |
| 30.0             | 1201.64        | -60.0 | 612.67         |
| 27.0             | 1237.87        | -63.0 | 530.71         |
| 24.0             | 1269.76        | -66.0 | 446.68         |
| 21.0             | 1296.82        | -69.0 | 358.53         |
| 18.0             | 1320.67        | -72.0 | 270.37         |
| 15.0             | 1341.59        | -75.0 | 182.21         |
| 12.0             | 1358.66        | -78.0 | 129.91         |
| 9.0              | 1371.99        | -81.0 | 77.61          |
| 6.0              | 1379.40        | -84.0 | 25.30          |
| 3.0              | 1385.95        | -87.0 | 4.73           |
| 0.0              | 1389.08        | -90.0 | 0.13           |

Note: Luminaire orientation as tested.  
The left and right sides of photometric data have been averaged.



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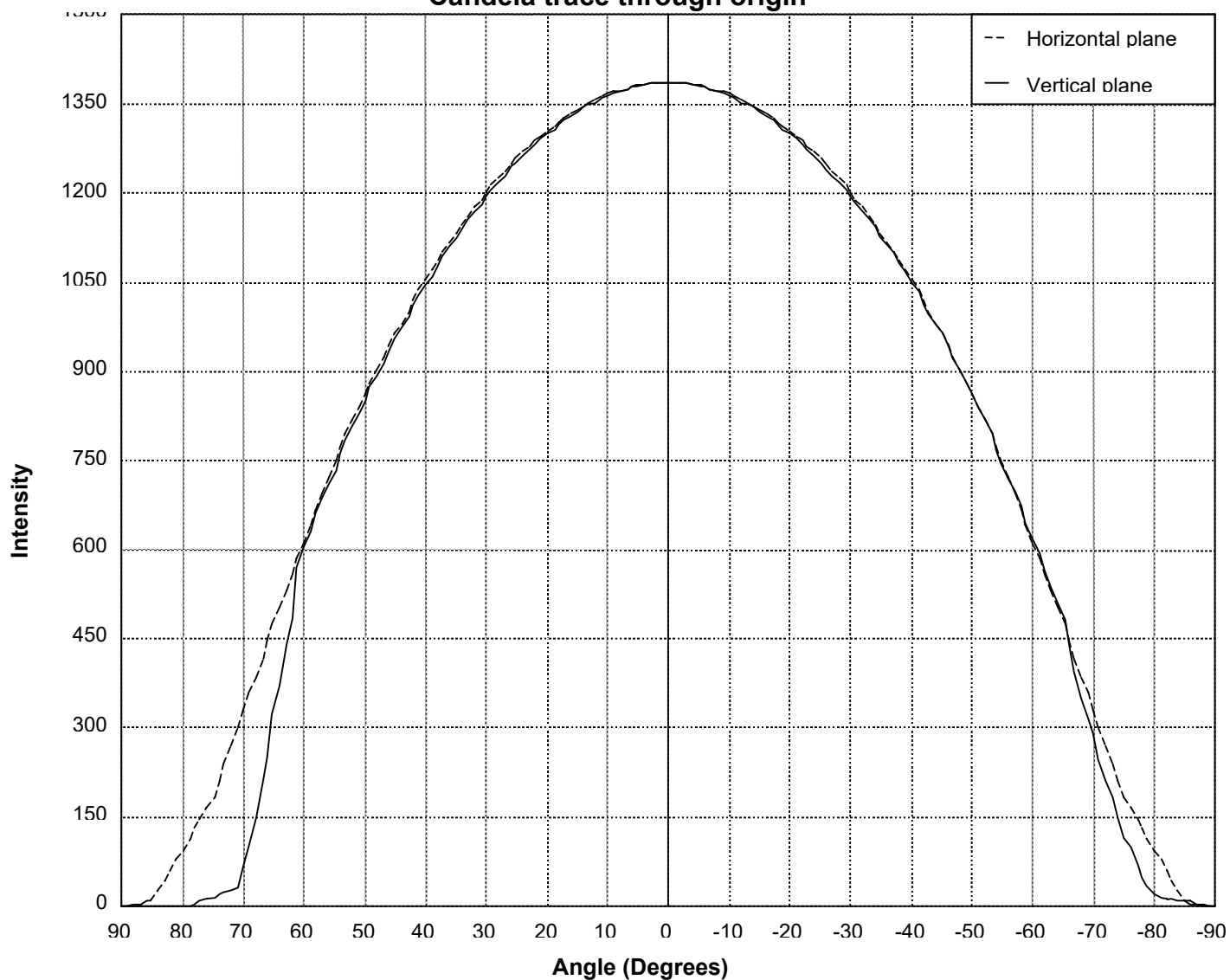
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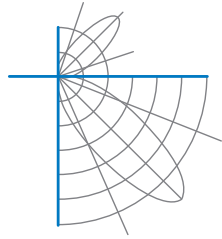
Internal LED driver

120.0Vac, 60.00Hz, 0.1995A, 23.60W, 0.986PF, 13.1%THD(i)

### Candela trace through origin



Note: The intensity units are expressed as candelas.  
The left and right sides of photometric data have been averaged.  
Both the vertical and the horizontal trace pass through the nadir.



## Test Report No. LLIA002372-002

Catalog Number: FL-30PCS-KNTR - 25W Setting - 4000K Setting

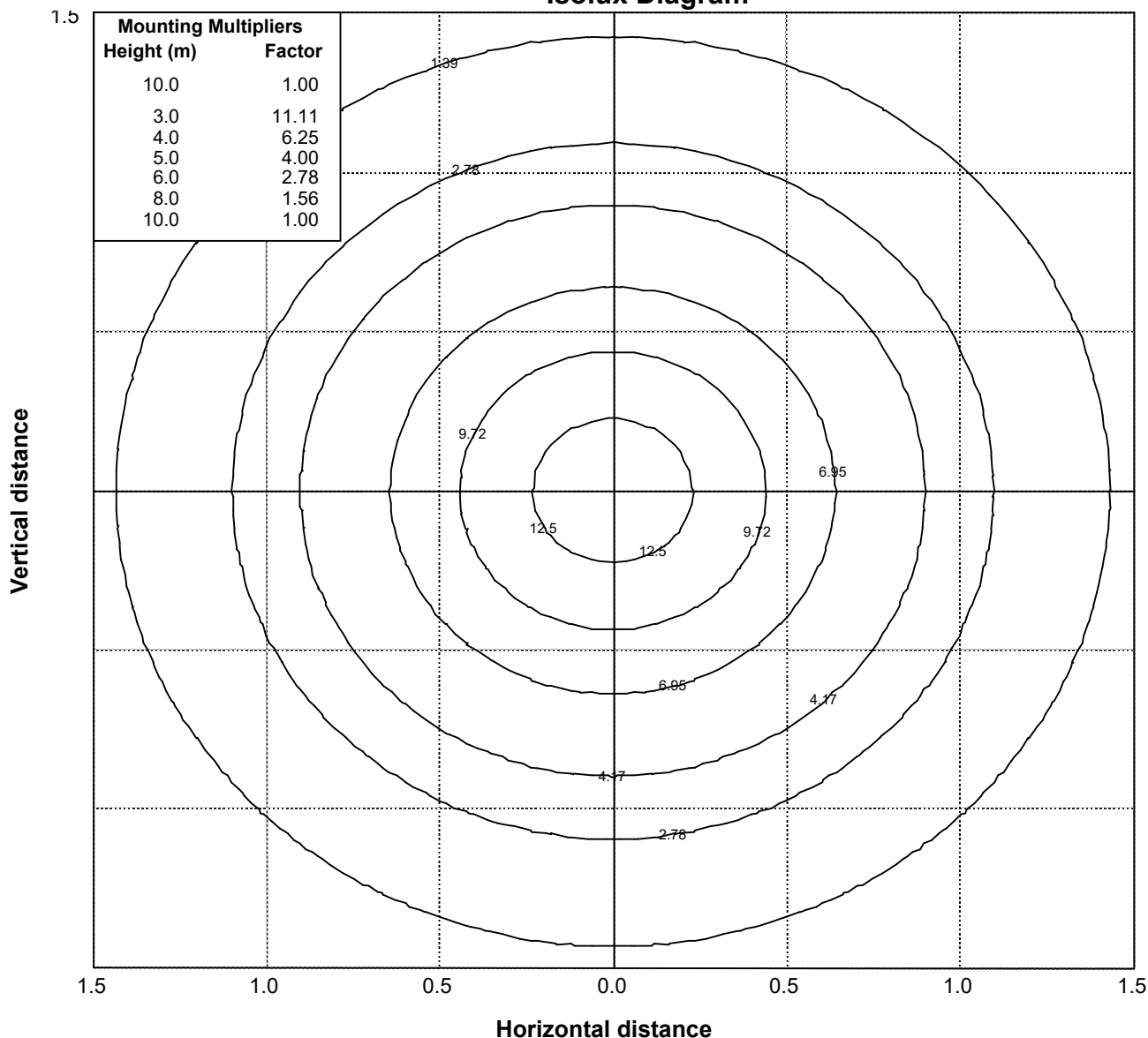
Knuckle or trunion mounted, formed aluminum housing, white plastic reflector, clear glass enclosure in front of LEDs

96 LEDs, 48 cool white and 48 warm white LEDs

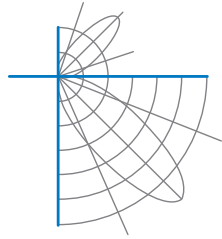
Internal LED driver

120.0Vac, 60.00Hz, 0.1995A, 23.60W, 0.986PF, 13.1%THD(i)

### Isolux Diagram



Note: The isolux levels are based on a mounting height of H = 10.0 metres. Grid values show multiples of mounting height.  
The isolux contours are set to 10%, 20%, 30%, 50%, 70%, 90% of the maximum.  
The isolux contour units are expressed as lux. The left and right sides of photometric data have been averaged.



### Test Report No. LLIA002372-002

Catalog Number: FL-30PCS-KNTR - 25W Setting - 4000K Setting  
Knuckle or trunion mounted, formed aluminum housing, white  
plastic reflector, clear glass enclosure in front of LEDs  
96 LEDs, 48 cool white and 48 warm white LEDs  
Internal LED driver  
120.0Vac, 60.00Hz, 0.1995A, 23.60W, 0.986PF, 13.1%THD(i)



**North America (issuing laboratory)**

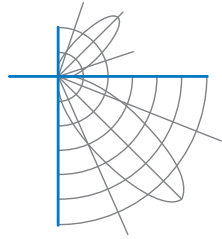
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## Test Report No. LLIA002372-002

Catalog Number: FL-30PCS-KNTR - 25W Setting - 4000K Setting  
Knuckle or trunion mounted, formed aluminum housing, white  
plastic reflector, clear glass enclosure in front of LEDs  
96 LEDs, 48 cool white and 48 warm white LEDs  
Internal LED driver  
120.0Vac, 60.00Hz, 0.1995A, 23.60W, 0.986PF, 13.1%THD(i)

**Test Distance** 9.5 m  
**Test Temperature** 25.0 °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-79-19, IES LM-75-19, and IES LM-35-20.

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 CIE (B,  $\beta$ ) coordinate system as defined in CIE publication number 121.

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.