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Nata
LumCAT: 2-1121-A4
Luminaire: TE 2213382-1+92.76.365.00

Report No: NT2017051112
Test No: GC2017051112
LampCAT: NFCL 060B
Lamp flux(lm): 2136.0
Number of Lamps: 1
Length(mm): 70
Phm Type: C

Voltage(V): 218.2000
Current(A): 0.1020
Power (W): 20.3000
PF: 0.9060
Ballast type: DC
Width(mm): 70
Height(mm): 0

Photometric Results
Lumens(lm): 1956.29
Efficiency(\%): 91.59\%
Lumens(lm)/Power(W): 96.37
Central intensity(cd): 6973.444
Maximum intensity(cd): 6973.444
Angle of maximum intensity: $\mathrm{C}=0.0 \gamma=0.0$
Beam Angle(50\%Imax): [C0/180]Total=25.5
[C90/270]Total=25.5
Field angle(10\%Imax): [C0/180]Total=57.8
[C90/270]Total=57.8
Maximum s/h(1/2): C0_180=0.43 C90_270=0.43
Maximum s/h(1/4): C0_180=0.40 C90_270=0.40
Up flux rate of lamp(\%): 0.00\%
Down flux rate of lamp(\%): 91.59\%
Up flux rate of LUM(\%): - -
Down flux rate of LUM(\%): 100.00\%
CIE Type : Direct lighting
Output flux ratio in $\pi$ solid angle : $98.771 \%$

Nata 2-1121-A4
Zonal flux distribution table

| $\gamma\left({ }^{\circ}\right)$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux $(\%)$ | Eff Sum(\%) |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 0.0 | 6973.444 | 0.000 | 0 | $.000 \%$ | $.000 \%$ |
| 1.0 | 6960.643 | 6.667 | 6.667 | $.312 \%$ | $.341 \%$ |
| 2.0 | 6913.019 | 19.913 | 26.58 | $.932 \%$ | $1.359 \%$ |
| 3.0 | 6844.474 | 32.903 | 59.483 | $1.540 \%$ | $3.041 \%$ |
| 4.0 | 6752.667 | 45.514 | 104.997 | $2.131 \%$ | $5.367 \%$ |
| 5.0 | 6588.049 | 57.391 | 162.388 | $2.687 \%$ | $8.301 \%$ |
| 6.0 | 6402.646 | 68.270 | 230.658 | $3.196 \%$ | $11.791 \%$ |
| 7.0 | 6133.421 | 77.811 | 308.469 | $3.643 \%$ | $15.768 \%$ |
| 8.0 | 5767.708 | 85.174 | 393.643 | $3.988 \%$ | $20.122 \%$ |
| 9.0 | 5387.406 | 90.406 | 484.049 | $4.232 \%$ | $24.743 \%$ |
| 10.0 | 4925.483 | 93.328 | 577.377 | $4.369 \%$ | $29.514 \%$ |
| 11.0 | 4368.312 | 92.864 | 670.241 | $4.348 \%$ | $34.261 \%$ |
| 12.0 | 3863.032 | 89.980 | 760.222 | $4.213 \%$ | $38.860 \%$ |
| 13.0 | 3346.741 | 85.562 | 845.784 | $4.006 \%$ | $43.234 \%$ |
| 14.0 | 2774.843 | 78.356 | 924.139 | $3.668 \%$ | $47.239 \%$ |
| 15.0 | 2365.636 | 70.571 | 994.71 | $3.304 \%$ | $50.847 \%$ |
| 16.0 | 1935.893 | 63.029 | 1057.74 | $2.951 \%$ | $54.069 \%$ |
| 17.0 | 1637.116 | 55.641 | 1113.381 | $2.605 \%$ | $56.913 \%$ |
| 18.0 | 1384.889 | 49.826 | 1163.207 | $2.333 \%$ | $59.460 \%$ |
| 19.0 | 1219.417 | 45.310 | 1208.517 | $2.121 \%$ | $61.776 \%$ |
| 20.0 | 1064.681 | 41.805 | 1250.322 | $1.957 \%$ | $63.913 \%$ |
| 21.0 | 967.038 | 39.013 | 1289.335 | $1.826 \%$ | $65.907 \%$ |
| 22.0 | 898.878 | 37.496 | 1326.832 | $1.755 \%$ | $67.824 \%$ |
| 23.0 | 843.189 | 36.553 | 1363.385 | $1.711 \%$ | $69.693 \%$ |
| 24.0 | 802.887 | 35.989 | 1399.374 | $1.685 \%$ | $71.532 \%$ |
| 25.0 | 773.363 | 35.840 | 1435.215 | $1.678 \%$ | $73.364 \%$ |
| 26.0 | 748.230 | 35.917 | 1471.132 | $1.682 \%$ | $75.200 \%$ |
| 27.0 | 727.419 | 36.102 | 1507.234 | $1.690 \%$ | $77.046 \%$ |
| 28.0 | 710.902 | 36.415 | 1543.649 | $1.705 \%$ | $78.907 \%$ |
| 29.0 | 696.078 | 36.811 | 1580.46 | $1.723 \%$ | $80.789 \%$ |
| 30.0 | 682.947 | 37.233 | 1617.693 | $1.743 \%$ | $82.692 \%$ |
| 31.0 | 668.536 | 37.610 | 1655.303 | $1.761 \%$ | $84.615 \%$ |
| 32.0 | 647.229 | 37.695 | 1692.998 | $1.765 \%$ | $86.541 \%$ |
| 33.0 | 613.796 | 37.150 | 1730.148 | $1.739 \%$ | $88.440 \%$ |
| 34.0 | 564.356 | 35.654 | 1765.803 | $1.669 \%$ | $90.263 \%$ |
| 35.0 | 503.160 | 33.153 | 1798.956 | $1.552 \%$ | $91.958 \%$ |
| 36.0 | 424.554 | 29.539 | 1828.495 | $1.383 \%$ | $93.468 \%$ |
| 37.0 | 347.310 | 25.174 | 1853.668 | $1.179 \%$ | $94.754 \%$ |
|  |  |  |  |  |  |

Equipment: gms 1980
Temperature $\left({ }^{\circ} \mathrm{C}\right): 25.0$
Date: 2017/5/11
Humidity(\%): 60.0\%
Operator: NT07
Distance(m): 7.42

Nata 2-1121-A4
Zonal flux distribution table

| $\gamma\left({ }^{\circ}\right)$ | Average I(cd) | Zonal F(lm) | Sum F (1m) | Eff Flux(\%) | Eff Sum(\%) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 38.0 | 265.427 | 20.452 | 1874.121 | . $958 \%$ | 95.800\% |
| 39.0 | 197.955 | 15.817 | 1889.937 | . $740 \%$ | 96.608\% |
| 40.0 | 133.443 | 11.558 | 1901.495 | . $541 \%$ | 97.199\% |
| 41.0 | 82.089 | 7.675 | 1909.17 | . $359 \%$ | 97.592\% |
| 42.0 | 44.747 | 4.608 | 1913.778 | .216\% | 97.827\% |
| 43.0 | 29.414 | 2.747 | 1916.526 | .129\% | 97.968\% |
| 44.0 | 21.555 | 1.924 | 1918.449 | .090\% | 98.066\% |
| 45.0 | 17.604 | 1.505 | 1919.954 | .070\% | 98.143\% |
| 46.0 | 14.700 | 1.263 | 1921.217 | .059\% | 98.207\% |
| 47.0 | 12.580 | 1.085 | 1922.302 | .051\% | 98.263\% |
| 48.0 | 10.309 | 0.925 | 1923.228 | .043\% | 98.310\% |
| 49.0 | 9.525 | 0.814 | 1924.042 | .038\% | 98.352\% |
| 50.0 | 8.905 | 0.768 | 1924.811 | .036\% | 98.391\% |
| 51.0 | 8.630 | 0.742 | 1925.553 | .035\% | 98.429\% |
| 52.0 | 8.520 | 0.736 | 1926.289 | .034\% | 98.467\% |
| 53.0 | 8.424 | 0.737 | 1927.026 | .035\% | 98.504\% |
| 54.0 | 8.314 | 0.738 | 1927.763 | .035\% | 98.542\% |
| 55.0 | 8.217 | 0.738 | 1928.501 | .035\% | 98.580\% |
| 56.0 | 8.162 | 0.740 | 1929.241 | .035\% | 98.618\% |
| 57.0 | 8.107 | 0.744 | 1929.985 | .035\% | 98.656\% |
| 58.0 | 8.052 | 0.747 | 1930.732 | .035\% | 98.694\% |
| 59.0 | 8.011 | 0.751 | 1931.483 | .035\% | 98.732\% |
| 60.0 | 7.969 | 0.755 | 1932.238 | .035\% | 98.771\% |
| 61.0 | 7.914 | 0.758 | 1932.996 | .035\% | 98.809\% |
| 62.0 | 7.873 | 0.761 | 1933.757 | .036\% | 98.848\% |
| 63.0 | 7.859 | 0.765 | 1934.522 | .036\% | 98.887\% |
| 64.0 | 7.818 | 0.769 | 1935.292 | .036\% | 98.927\% |
| 65.0 | 7.832 | 0.774 | 1936.066 | .036\% | 98.966\% |
| 66.0 | 7.790 | 0.779 | 1936.845 | .036\% | 99.006\% |
| 67.0 | 7.804 | 0.784 | 1937.63 | .037\% | 99.046\% |
| 68.0 | 7.777 | 0.789 | 1938.419 | .037\% | 99.087\% |
| 69.0 | 7.763 | 0.793 | 1939.212 | .037\% | 99.127\% |
| 70.0 | 7.749 | 0.797 | 1940.008 | .037\% | 99.168\% |
| 71.0 | 7.735 | 0.800 | 1940.809 | .037\% | 99.209\% |
| 72.0 | 7.680 | 0.802 | 1941.61 | .038\% | 99.250\% |
| 73.0 | 7.680 | 0.803 | 1942.413 | .038\% | 99.291\% |
| 74.0 | 7.680 | 0.808 | 1943.221 | .038\% | 99.332\% |
| 75.0 | 7.667 | 0.811 | 1944.032 | . $038 \%$ | 99.374\% |

Equipment: gms1980
Temperature $\left({ }^{\circ} \mathrm{C}\right): 25.0$

Date: 2017/5/11
Humidity(\%): 60.0\%

Operator: NT07
Distance(m): 7.42

Nata 2-1121-A4
Zonal flux distribution table
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| $\gamma\left({ }^{\circ}\right)$ | Average I(cd) | Zonal F(lm) | Sum F(lm) | Eff Flux(\%) | Eff Sum(\%) |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 76.0 | 7.639 | 0.812 | 1944.844 | $.038 \%$ | $99.415 \%$ |
| 77.0 | 7.625 | 0.814 | 1945.658 | $.038 \%$ | $99.457 \%$ |
| 78.0 | 7.612 | 0.816 | 1946.474 | $.038 \%$ | $99.498 \%$ |
| 79.0 | 7.570 | 0.816 | 1947.29 | $.038 \%$ | $99.540 \%$ |
| 80.0 | 7.584 | 0.817 | 1948.107 | $.038 \%$ | $99.582 \%$ |
| 81.0 | 7.570 | 0.820 | 1948.926 | $.038 \%$ | $99.624 \%$ |
| 82.0 | 7.543 | 0.820 | 1949.746 | $.038 \%$ | $99.666 \%$ |
| 83.0 | 7.515 | 0.819 | 1950.564 | $.038 \%$ | $99.707 \%$ |
| 84.0 | 7.515 | 0.819 | 1951.383 | $.038 \%$ | $99.749 \%$ |
| 85.0 | 7.501 | 0.820 | 1952.203 | $.038 \%$ | $99.791 \%$ |
| 86.0 | 7.501 | 0.820 | 1953.023 | $.038 \%$ | $99.833 \%$ |
| 87.0 | 7.446 | 0.818 | 1953.841 | $.038 \%$ | $99.875 \%$ |
| 88.0 | 7.433 | 0.815 | 1954.656 | $.038 \%$ | $99.917 \%$ |
| 89.0 | 7.433 | 0.815 | 1955.471 | $.038 \%$ | $99.958 \%$ |
| 90.0 | 7.446 | 0.816 | 1956.286 | $.038 \%$ | $100.000 \%$ |


|  | ZONAL LUMEN SUMMARY |  |  |
| :--- | :--- | :--- | :--- |
| Zone | Lumens | \%Lamp | \%Fixt |
| $0-30$ | 1617.69 | $75.73 \%$ | $82.69 \%$ |
| $0-40$ | 1901.50 | $89.02 \%$ | $97.20 \%$ |
| $0-60$ | 1932.24 | $90.46 \%$ | $98.77 \%$ |
| $0-90$ | 1955.47 | $91.55 \%$ | $99.96 \%$ |
| $0-120$ | 1955.47 | $91.55 \%$ | $99.96 \%$ |
| $0-180$ | 1956.29 | $91.59 \%$ | $100.00 \%$ |
| $60-90$ | 23.99 | $1.12 \%$ | $1.23 \%$ |
| $90-120$ | 0.00 | $0.00 \%$ | $0.00 \%$ |
| $90-130$ | 0.00 | $0.00 \%$ | $0.00 \%$ |
| $90-150$ | 0.00 | $0.00 \%$ | $0.00 \%$ |
| $90-180$ | 0.00 | $0.00 \%$ | $0.00 \%$ |
| $0-28.58$ | 1565.03 | $73.27 \%$ | $80.00 \%$ |

## ZONAL LUMEN SUMMARY

| $0-10$ | 577.38 |
| :--- | :--- |
| $10-20$ | 672.94 |
| $20-30$ | 367.37 |
| $30-40$ | 283.80 |
| $40-50$ | 23.32 |
| $50-60$ | 7.43 |
| $60-70$ | 7.77 |
| $70-80$ | 8.10 |
| $80-90$ | 7.36 |
| $90-100$ | 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 |


6973.44
5578.75
4184.07
2789.38
1394.69
0.00


Field angle(10\%Imax):C0/180Left:28.9 Right:28.9
:C90/270Left:28.9 Right:28.9
Beam Angle(50\%Imax):C0/180Left:12.7 Right:12.7
:C90/270Left:12.7 Right:12.7

| Illuminance at a Distance |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Center Beam LUX |  |  | idth |
|  |  |  | V | H |
| 2m | 1743.36 LUX | , | 0.9m | 0.9m |
| 4 m | 435.84 LUX | / | 1.8 m | 1.8 m |
| 6 m | 193.71 LUX |  | 2.7 m | 2.7 m |
| 8m | 108.96 LUX |  | 3.6 m | 3.6m |
| 10m | 69.73 LUX |  | 4.5 m | 4.5 m |
| 12 m | 48.43 LUX |  | 5.4 m | 5.4 m |
| Vert.Spread:25.5 |  | Horiz.Spread:25.5 |  |  |



Equipment: gms1980
Temperature $\left({ }^{\circ} \mathrm{C}\right): 25.0$

Date: 2017/5/11
Humidity(\%): 60.0\%

Operator: NT07
Distance(m): 7.42

ISO candela diagram on circular web
Appendix Page: 9 Total:16


Nata 2-1121-A4
ISO illuminance diagram


Equipment: gms1980
Temperature $\left({ }^{\circ} \mathrm{C}\right): 25.0$

Operator: NT07
Distance(m): 7.42


Nata 2-1121-A4
Luminance Limitting Curve(no luminous side)
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| $\gamma$ | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| C0 | 3147 | 1632 | 1557 | 1576 | 1632 | 1720 | 1836 | 1988 | 2190 |
| C45 | 53993 | 40901 | 38841 | 38341 | 38820 | 39952 | 42783 | 44042 | 47902 |
| C90 | 3147 | 1632 | 1557 | 1576 | 1632 | 1720 | 1836 | 1988 | 2190 |


| L(Hor)(65) | L(Ver)(65) | L45(65) | L(Hor)(75) | L(Ver)(75) | L45(75) | L(Hor)(85) | L(Ver)(85) | L45(85) |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 3782 | 3782 | 111142 | 6045 | 6045 | 181492 | 17565 | 17565 | 523555 |

Glare Table

| Glare | Quality | Service Values Illuminance(lx) |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1.15 | A | 2000 | 1000 | 500 | $<=300$ |  |  |  |  |
| 1.5 | B |  | 2000 | 1000 | 500 | $<=300$ |  |  |  |
| 1.85 | C |  |  | 2000 | 1000 | 500 | $<=300$ |  |  |
| 2.2 | D |  |  |  | 2000 | 1000 | 500 | $<=300$ |  |
| 2.55 | E |  |  |  |  | 2000 | 1000 | 500 | $<=300$ |
|  |  | a | b | c | d | e | f | g | h |

## Luminance Limitting Curve

$\gamma\left({ }^{\circ}\right)$


C0 $\qquad$ C 45 —
C90

Temperature $\left({ }^{\circ} \mathrm{C}\right): 25.0$

Humidity(\%): 60.0\%


| RHOCC | 80 |  |  | 70 |  |  | 50 |  |  | 30 |  |  | 10 |  |  | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| RHOW | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | COEFFCIENTS OF UTILIZATION RHOFC=20 CU |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0 | 1.09 | 1.09 | 1.09 | 1.06 | 1.06 | 1.06 | 1.02 | 1.02 | 1.02 | 0.97 | 0.97 | 0.97 | 0.93 | 0.93 | 0.93 | 0.92 |
| 1 | 1.02 | 1.00 | 0.99 | 1.00 | 0.99 | 0.97 | 0.97 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 | 0.89 | 0.89 | 0.87 |
| 2 | 0.97 | 0.94 | 0.91 | 0.95 | 0.92 | 0.90 | 0.92 | 0.90 | 0.88 | 0.90 | 0.88 | 0.86 | 0.87 | 0.86 | 0.84 | 0.83 |
| 3 | 0.92 | 0.88 | 0.85 | 0.91 | 0.87 | 0.84 | 0.88 | 0.85 | 0.83 | 0.86 | 0.84 | 0.82 | 0.84 | 0.82 | 0.80 | 0.79 |
| 4 | 0.87 | 0.83 | 0.80 | 0.86 | 0.83 | 0.80 | 0.84 | 0.81 | 0.79 | 0.83 | 0.80 | 0.78 | 0.81 | 0.79 | 0.77 | 0.76 |
| 5 | 0.83 | 0.79 | 0.76 | 0.83 | 0.79 | 0.75 | 0.81 | 0.78 | 0.75 | 0.80 | 0.77 | 0.74 | 0.78 | 0.76 | 0.74 | 0.72 |
| 6 | 0.80 | 0.75 | 0.72 | 0.79 | 0.75 | 0.72 | 0.78 | 0.74 | 0.72 | 0.77 | 0.73 | 0.71 | 0.76 | 0.73 | 0.71 | 0.70 |
| 7 | 0.77 | 0.72 | 0.69 | 0.76 | 0.72 | 0.69 | 0.75 | 0.71 | 0.69 | 0.74 | 0.71 | 0.68 | 0.73 | 0.70 | 0.68 | 0.67 |
| 8 | 0.74 | 0.69 | 0.66 | 0.73 | 0.69 | 0.66 | 0.72 | 0.68 | 0.66 | 0.71 | 0.68 | 0.66 | 0.71 | 0.68 | 0.65 | 0.64 |
| 9 | 0.71 | 0.67 | 0.64 | 0.71 | 0.66 | 0.64 | 0.70 | 0.66 | 0.63 | 0.69 | 0.66 | 0.63 | 0.68 | 0.65 | 0.63 | 0.62 |
| 10 | 0.68 | 0.64 | 0.61 | 0.68 | 0.64 | 0.61 | 0.67 | 0.64 | 0.61 | 0.67 | 0.63 | 0.61 | 0.66 | 0.63 | 0.61 | 0.60 |


| Intensity data(cd) |  |  |  |  |  |  |  | Appendix Page: 15 Total:16 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{C} / 7\left({ }^{\circ}\right)$ | 0.0 | 1.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 |
| 0.0 | 6992.16 | 7031.25 | 7024.10 | 6983.35 | 6913.98 | 6783.50 | 6663.48 | 6536.30 | 6357.36 |
| 90.0 | 6954.72 | 6965.19 | 6947.57 | 6918.39 | 6872.14 | 6766.43 | 6612.27 | 6377.73 | 6024.82 |
| 180.0 | 6992.16 | 6924.99 | 6818.18 | 6688.25 | 6514.82 | 6250.00 | 5938.93 | 5501.79 | 4983.15 |
| 270.0 | 6954.72 | 6921.14 | 6862.23 | 6787.90 | 6709.72 | 6552.26 | 6395.90 | 6117.87 | 5705.49 |
| 360.0 | 6992.16 | 7031.25 | 7024.10 | 6983.35 | 6913.98 | 6783.50 | 6663.48 | 6536.30 | 6357.36 |
| $\mathrm{C} / \mathrm{\gamma}\left({ }^{\circ}\right)$ | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 17.0 |
| 0.0 | 6131.08 | 5872.87 | 5517.20 | 5141.72 | 4660.52 | 4124.83 | 3616.65 | 3030.85 | 2490.75 |
| 90.0 | 5604.74 | 5164.84 | 4592.25 | 3973.97 | 3412.95 | 2814.48 | 2339.90 | 1895.04 | 1556.44 |
| 180.0 | 4461.77 | 3840.18 | 3208.69 | 2671.34 | 2196.20 | 1721.06 | 1434.77 | 1087.80 | 1057.14 |
| 270.0 | 5352.03 | 4824.04 | 4155.11 | 3665.10 | 3117.29 | 2439.00 | 2071.22 | 1729.87 | 1444.13 |
| 360.0 | 6131.08 | 5872.87 | 5517.20 | 5141.72 | 4660.52 | 4124.83 | 3616.65 | 3030.85 | 2490.75 |
| $\mathrm{C} / 7\left({ }^{\circ}\right)$ | 18.0 | 19.0 | 20.0 | 21.0 | 22.0 | 23.0 | 24.0 | 25.0 | 26.0 |
| 0.0 | 2083.88 | 1748.59 | 1423.21 | 1226.66 | 1078.00 | 959.63 | 879.25 | 831.35 | 791.71 |
| 90.0 | 1330.16 | 1157.84 | 1015.24 | 939.81 | 886.96 | 840.71 | 810.43 | 784.55 | 759.78 |
| 180.0 | 950.60 | 888.22 | 839.33 | 802.78 | 778.00 | 755.21 | 737.37 | 720.30 | 705.16 |
| 270.0 | 1174.90 | 1083.01 | 980.94 | 898.91 | 852.55 | 817.20 | 784.50 | 757.25 | 736.27 |
| 360.0 | 2083.88 | 1748.59 | 1423.21 | 1226.66 | 1078.00 | 959.63 | 879.25 | 831.35 | 791.71 |
| $\mathrm{C} / \mathrm{\gamma}\left({ }^{\circ}\right)$ | 27.0 | 28.0 | 29.0 | 30.0 | 31.0 | 32.0 | 33.0 | 34.0 | 35.0 |
| 0.0 | 762.53 | 742.16 | 725.09 | 709.68 | 694.81 | 682.70 | 671.69 | 658.47 | 642.51 |
| 90.0 | 739.96 | 723.44 | 708.58 | 696.46 | 683.25 | 670.04 | 654.62 | 606.17 | 535.70 |
| 180.0 | 691.34 | 679.56 | 666.13 | 653.85 | 634.53 | 585.30 | 506.96 | 424.65 | 334.14 |
| 270.0 | 715.84 | 698.45 | 684.52 | 671.80 | 661.56 | 650.88 | 621.92 | 568.13 | 500.30 |
| 360.0 | 762.53 | 742.16 | 725.09 | 709.68 | 694.81 | 682.70 | 671.69 | 658.47 | 642.51 |
| $\mathrm{C} / \gamma\left({ }^{\circ}\right)$ | 36.0 | 37.0 | 38.0 | 39.0 | 40.0 | 41.0 | 42.0 | 43.0 | 44.0 |
| 0.0 | 612.78 | 554.42 | 456.97 | 367.78 | 288.50 | 189.23 | 100.15 | 49.11 | 27.14 |
| 90.0 | 458.62 | 376.59 | 280.79 | 233.66 | 128.45 | 68.10 | 27.69 | 23.67 | 19.99 |
| 180.0 | 221.60 | 142.49 | 78.79 | 38.26 | 26.37 | 23.84 | 20.98 | 18.06 | 15.42 |
| 270.0 | 405.22 | 315.75 | 245.17 | 152.12 | 90.46 | 47.18 | 30.17 | 26.81 | 23.67 |
| 360.0 | 612.78 | 554.42 | 456.97 | 367.78 | 288.50 | 189.23 | 100.15 | 49.11 | 27.14 |
| $\mathrm{C} / 7 \mathrm{~F}^{\circ}$ ) | 45.0 | 46.0 | 47.0 | 48.0 | 49.0 | 50.0 | 51.0 | 52.0 | 53.0 |
| 0.0 | 21.09 | 18.77 | 16.46 | 14.09 | 12.06 | 10.02 | 9.19 | 9.03 | 8.92 |
| 90.0 | 16.74 | 14.26 | 12.17 | 9.52 | 8.75 | 8.59 | 8.53 | 8.42 | 8.31 |
| 180.0 | 12.28 | 8.92 | 8.70 | 8.53 | 8.48 | 8.42 | 8.31 | 8.26 | 8.20 |
| 270.0 | 20.32 | 16.85 | 12.99 | 9.08 | 8.81 | 8.59 | 8.48 | 8.37 | 8.26 |
| 360.0 | 21.09 | 18.77 | 16.46 | 14.09 | 12.06 | 10.02 | 9.19 | 9.03 | 8.92 |
| $\mathrm{C} / \mathrm{\gamma}\left({ }^{\circ}\right)$ | 54.0 | 55.0 | 56.0 | 57.0 | 58.0 | 59.0 | 60.0 | 61.0 | 62.0 |
| 0.0 | 8.81 | 8.64 | 8.48 | 8.42 | 8.31 | 8.31 | 8.26 | 8.20 | 8.15 |
| 90.0 | 8.15 | 8.09 | 8.09 | 8.04 | 7.98 | 7.93 | 7.87 | 7.82 | 7.76 |
| 180.0 | 8.09 | 8.04 | 8.04 | 7.98 | 7.98 | 7.93 | 7.93 | 7.87 | 7.82 |
| 270.0 | 8.20 | 8.09 | 8.04 | 7.98 | 7.93 | 7.87 | 7.82 | 7.76 | 7.76 |
| 360.0 | 8.81 | 8.64 | 8.48 | 8.42 | 8.31 | 8.31 | 8.26 | 8.20 | 8.15 |
| $\mathrm{C} / 7 \mathrm{~F}^{\circ}$ ) | 63.0 | 64.0 | 65.0 | 66.0 | 67.0 | 68.0 | 69.0 | 70.0 | 71.0 |
| 0.0 | 8.09 | 8.04 | 8.04 | 7.98 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 |
| 90.0 | 7.76 | 7.76 | 7.76 | 7.71 | 7.71 | 7.65 | 7.65 | 7.65 | 7.60 |
| 180.0 | 7.82 | 7.76 | 7.82 | 7.76 | 7.76 | 7.76 | 7.71 | 7.65 | 7.71 |
| 270.0 | 7.76 | 7.71 | 7.71 | 7.71 | 7.71 | 7.65 | 7.65 | 7.65 | 7.60 |
| 360.0 | 8.09 | 8.04 | 8.04 | 7.98 | 8.04 | 8.04 | 8.04 | 8.04 | 8.04 |


| Equipment: gms 1980 | Date: $2017 / 5 / 11$ | Operator: NT07 |
| :--- | :--- | :--- |
| Temperature $\left({ }^{\circ} \mathrm{C}\right): 25.0$ | Humidity(\%): $60.0 \%$ | Distance(m): 7.42 |

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| Intensity data(cd) |  |  |  |  |  |  |  | Appendix Page: 16 Total:16 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{C} / 7\left({ }^{\circ}\right)$ | 72.0 | 73.0 | 74.0 | 75.0 | 76.0 | 77.0 | 78.0 | 79.0 | 80.0 |  |
| 0.0 | 7.93 | 7.93 | 7.93 | 7.93 | 7.87 | 7.87 | 7.87 | 7.82 | 7.82 |  |
| 90.0 | 7.54 | 7.54 | 7.54 | 7.54 | 7.54 | 7.54 | 7.49 | 7.49 | 7.43 |  |
| 180.0 | 7.65 | 7.65 | 7.65 | 7.65 | 7.60 | 7.60 | 7.60 | 7.54 | 7.60 |  |
| 270.0 | 7.60 | 7.60 | 7.60 | 7.54 | 7.54 | 7.49 | 7.49 | 7.43 | 7.49 |  |
| 360.0 | 7.93 | 7.93 | 7.93 | 7.93 | 7.87 | 7.87 | 7.87 | 7.82 | 7.82 |  |
| $\mathrm{C} / \gamma\left({ }^{\circ}\right)$ | 81.0 | 82.0 | 83.0 | 84.0 | 85.0 | 86.0 | 87.0 | 88.0 | 89.0 |  |
| 0.0 | 7.76 | 7.76 | 7.71 | 7.71 | 7.71 | 7.71 | 7.60 | 7.54 | 7.54 |  |
| 90.0 | 7.43 | 7.38 | 7.38 | 7.43 | 7.38 | 7.38 | 7.32 | 7.32 | 7.32 |  |
| 180.0 | 7.60 | 7.60 | 7.54 | 7.54 | 7.54 | 7.54 | 7.54 | 7.54 | 7.54 |  |
| 270.0 | 7.49 | 7.43 | 7.43 | 7.38 | 7.38 | 7.38 | 7.32 | 7.32 | 7.32 |  |
| 360.0 | 7.76 | 7.76 | 7.71 | 7.71 | 7.71 | 7.71 | 7.60 | 7.54 | 7.54 |  |
| $\left.\mathrm{C} / 7{ }^{( }\right)$ | 90.0 |  |  |  |  |  |  |  |  |  |
| 0.0 | 7.54 |  |  |  |  |  |  |  |  |  |
| 90.0 | 7.38 |  |  |  |  |  |  |  |  |  |
| 180.0 | 7.54 |  |  |  |  |  |  |  |  |  |
| 270.0 | 7.32 |  |  |  |  |  |  |  |  |  |
| 360.0 | 7.54 |  |  |  |  |  |  |  |  |  |

