

## Spectrum Test Report

Sample :  
Specification : DSK4R11927120W  
Sample No. :  
Manufacturer : RAB LIGHTING INC

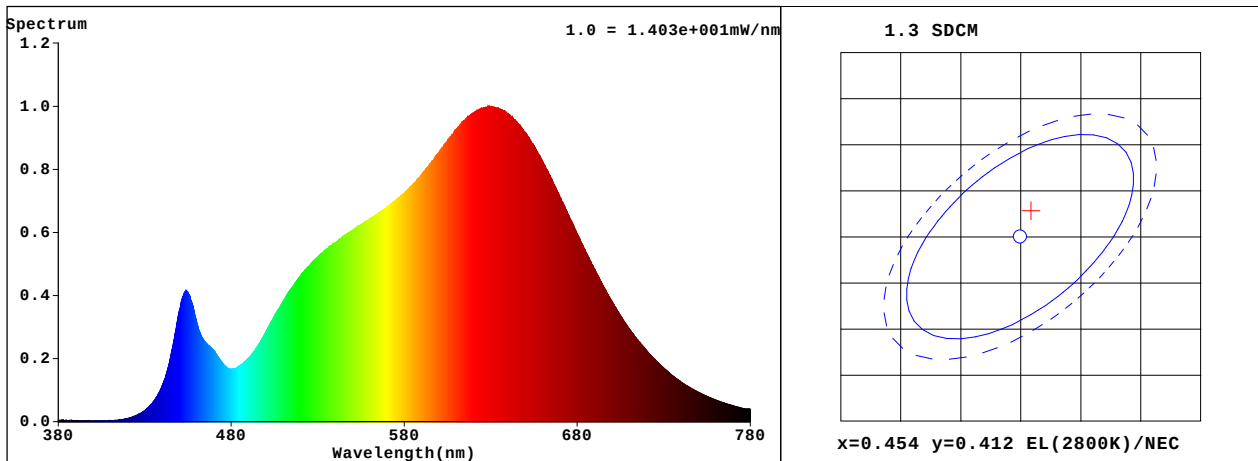
Date : 2019-11-08 12:57:34  
Sam. Status :  
Instrument : HaasSuite(EVERFINE)  
Test by :  
Assessor : damin

### Test Condition

Temperature : 22.7Deg  
WL Range : 380nm-780nm  
Test Mode : Fast Test

RH : 65.0%  
IP : 45367 (69%)  
T : 68 ms  
Sensitivity : High

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.4549$   $y = 0.4148$  /  $u' = 0.2574$   $v' = 0.5282$  ( $duv=2.02e-03$ )

CCT= 2804K Prcp WL: Ld=583.0nm Purity=61.1%

Peak WL: Lp=629nm FWHM: =162.8nm Ratio:R=25.6% G=72.1% B=2.3%

Render Index: Ra = 93.8 CRI = 90.7 AvgR = 90.8

R1 =94 R2 =95 R3 =94 R4 =95 R5 =93 R6 =94 R7 =96

R8 =88 R9 =71 R10=87 R11=95 R12=76 R13=95 R14=96 R15=92

WHITE:ANSI\_2700K

### Photometric & Radiometric Parameters

Flux = 657.90 lm Eff. : 62.77 lm/W Fe = 2.3636 W

Flux of emitted photons(umol/s):11.886 Fluo. and blue light ratio:13.70 Fluorescent eff.:197.1

### Electrical parameters

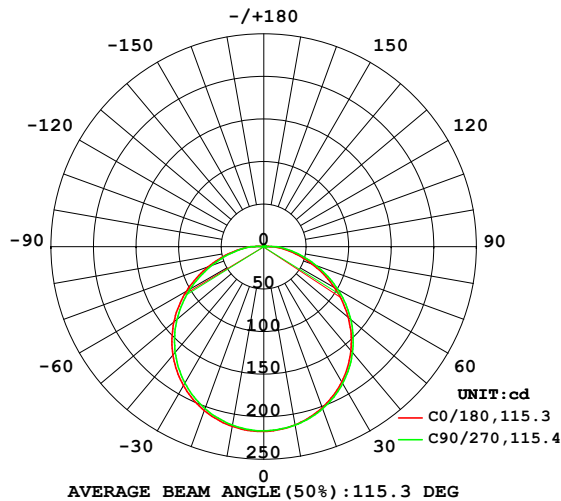
V = 120.2 V I = 0.09304 A P = 10.48 W PF = 0.9376 F=59.98 Hz

## LUMINAIRE PHOTOMETRIC TEST REPORT

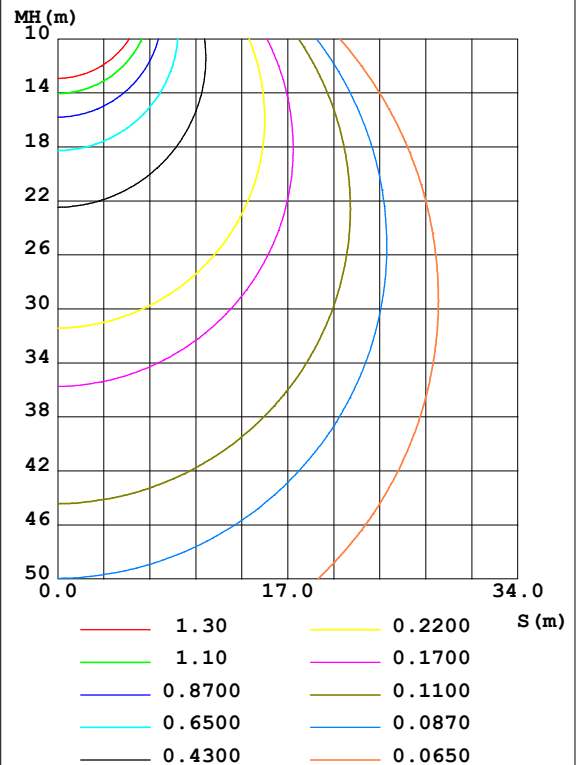
|                                                                                |                     |                  |
|--------------------------------------------------------------------------------|---------------------|------------------|
| Test:U:120.0V I:0.0928A P:10.45W PF:0.9382 Freq:59.98Hz Lamp Flux:670.423x1 lm |                     |                  |
| NAME:                                                                          | TYPE:DSK4R11927120W | WEIGHT:          |
| SPEC.:                                                                         | DIM.:               | SERIAL No.:      |
| MFR.: RAB LIGHTING INC                                                         | SUR.:               | Shielding Angle: |

| DATA OF LAMP     |         | PHOTOMETRIC DATA |        |                        |          | Eff: 64.13 lm/W |
|------------------|---------|------------------|--------|------------------------|----------|-----------------|
| MODEL            |         | Imax(cd)         | 217.2  | S/MH(C0/180)           | 1.29     |                 |
| NOMINAL POWER(W) |         | LOR(%)           | 100.0  | S/MH(C90/270)          | 1.27     |                 |
| RATED VOLTAGE(V) | 120     | TOTAL FLUX(lm)   | 670.42 | $\eta$ UP,DN(C0-180)   | 0.9,48.3 |                 |
| NOMINAL FLUX(lm) | 670.423 | CIE CLASS        | DIRECT | $\eta$ UP,DN(C180-360) | 1.0,49.8 |                 |
| LAMPS INSIDE     | 1       | $\eta$ up(%)     | 1.9    | CIBSE SHR NOM          | 1.25     |                 |
| TEST VOLTAGE(V)  | 120     | $\eta$ down(%)   | 98.1   | CIBSE SHR MAX          | 1.35     |                 |

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Testing Room  
 Test Date:2019-11-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:11.160m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

| γ   | C0                    | C90    | C180   | C270   |  |  |  |  | γ       | Φ zone  | Φ total | %lum, lamp |
|-----|-----------------------|--------|--------|--------|--|--|--|--|---------|---------|---------|------------|
| 10  | 212.7                 | 212.9  | 214.5  | 213.0  |  |  |  |  | 0- 10   | 20.52   | 20.52   | 3.06,3.06  |
| 20  | 201.4                 | 202.7  | 205.1  | 202.5  |  |  |  |  | 10- 20  | 58.99   | 79.51   | 11.9,11.9  |
| 30  | 183.5                 | 185.7  | 188.8  | 185.4  |  |  |  |  | 20- 30  | 89.97   | 169.5   | 25.3,25.3  |
| 40  | 159.5                 | 162.3  | 166.2  | 162.1  |  |  |  |  | 30- 40  | 109.4   | 278.9   | 41.6,41.6  |
| 50  | 129.7                 | 133.6  | 138.0  | 133.2  |  |  |  |  | 40- 50  | 114.7   | 393.6   | 58.7,58.7  |
| 60  | 95.89                 | 100.5  | 105.0  | 99.87  |  |  |  |  | 50- 60  | 104.9   | 498.5   | 74.4,74.4  |
| 70  | 60.78                 | 66.12  | 69.70  | 65.36  |  |  |  |  | 60- 70  | 81.97   | 580.5   | 86.6,86.6  |
| 80  | 30.55                 | 35.73  | 37.28  | 35.06  |  |  |  |  | 70- 80  | 52.24   | 632.7   | 94.4,94.4  |
| 90  | 10.60                 | 13.80  | 13.90  | 13.76  |  |  |  |  | 80- 90  | 25.02   | 657.7   | 98.1,98.1  |
| 100 | 0.6234                | 1.107  | 0.6077 | 1.350  |  |  |  |  | 90-100  | 5.839   | 663.6   | 99,99      |
| 110 | 0.8523                | 0.8448 | 0.8764 | 0.8444 |  |  |  |  | 100-110 | 0.7962  | 664.4   | 99.1,99.1  |
| 120 | 1.168                 | 1.113  | 1.176  | 1.121  |  |  |  |  | 110-120 | 0.9954  | 665.4   | 99.2,99.2  |
| 130 | 1.507                 | 1.381  | 1.460  | 1.389  |  |  |  |  | 120-130 | 1.160   | 666.5   | 99.4,99.4  |
| 140 | 1.697                 | 1.594  | 1.705  | 1.760  |  |  |  |  | 130-140 | 1.220   | 667.7   | 99.6,99.6  |
| 150 | 1.731                 | 1.807  | 1.807  | 1.784  |  |  |  |  | 140-150 | 1.083   | 668.8   | 99.8,99.8  |
| 160 | 1.861                 | 1.895  | 1.989  | 1.969  |  |  |  |  | 150-160 | 0.8508  | 669.7   | 99.9,99.9  |
| 170 | 2.001                 | 2.005  | 2.044  | 2.036  |  |  |  |  | 160-170 | 0.5630  | 670.2   | 100,100    |
| 180 | 2.044                 | 2.052  | 2.052  | 2.044  |  |  |  |  | 170-180 | 0.1940  | 670.4   | 100,100    |
| DEG | LUMINOUS INTENSITY:cd |        |        |        |  |  |  |  |         | UNIT:lm |         |            |

Conical surface Flux(90deg): 336.53 lm

%lum = 50.2%

%lamp = 50.2%

Conical surface Flux(120deg): 498.5 lm

%lum = 74.4%

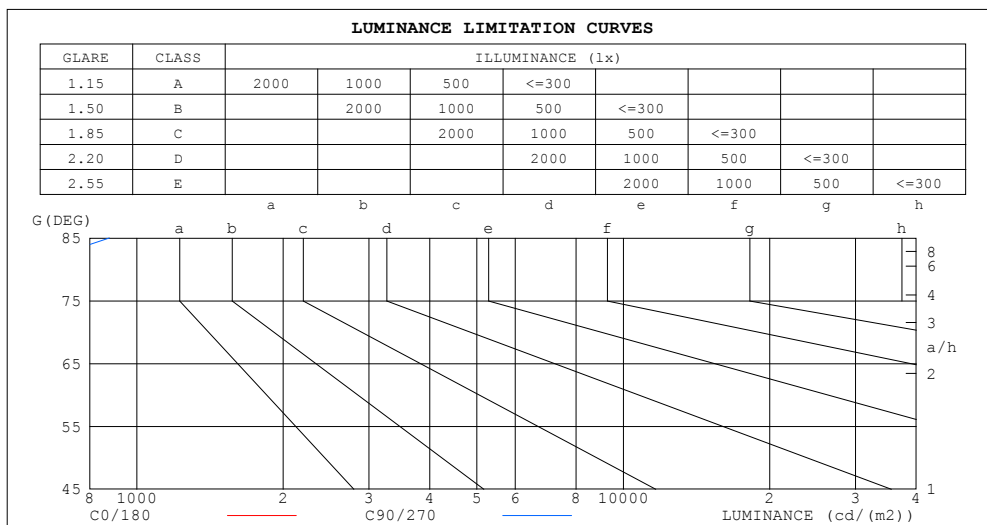
%lamp = 74.4%

C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:Testing Room  
 Test Date:2019-11-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
 Humidity:65.0%  
 Test Distance:11.160m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

|                                                                                |                     |                  |
|--------------------------------------------------------------------------------|---------------------|------------------|
| Test:U:120.0V I:0.0928A P:10.45W PF:0.9382 Freq:59.98Hz Lamp Flux:670.423x1 lm |                     |                  |
| NAME:                                                                          | TYPE:DSK4R11927120W | WEIGHT:          |
| SPEC.:                                                                         | DIM.:               | SERIAL No.:      |
| MFR.: RAB LIGHTING INC                                                         | SUR.:               | Shielding Angle: |



| LUMINANCE cd/(m2) |        |         |
|-------------------|--------|---------|
| G (DEG)           | C0/180 | C90/270 |
| 85                | 711    | 879     |
| 80                | 571    | 668     |
| 75                | 560    | 628     |
| 70                | 577    | 628     |
| 65                | 600    | 639     |
| 60                | 623    | 653     |
| 55                | 641    | 665     |
| 50                | 655    | 675     |
| 45                | 667    | 683     |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Testing Room  
Test Date:2019-11-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
Humidity:65.0%  
Test Distance:11.160m [K=1.0000]  
Remarks:

### WEC AND CCEC

|                                                                                |                     |                  |
|--------------------------------------------------------------------------------|---------------------|------------------|
| Test:U:120.0V I:0.0928A P:10.45W PF:0.9382 Freq:59.98Hz Lamp Flux:670.423x1 lm |                     |                  |
| NAME:                                                                          | TYPE:DSK4R11927120W | WEIGHT:          |
| SPEC.:                                                                         | DIM.:               | SERIAL No.:      |
| MFR.: RAB LIGHTING INC                                                         | SUR.:               | Shielding Angle: |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                              |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|------|-----------------------|------|------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|---|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                              | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                              |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Wall Exitance Coefficients (WEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0  |                       |      |      |      |      |      |                                  |      |      |      |      |      |      |      |      |   |  |
| 1.0  | .334                  | .190 | .060 | .326 | .186 | .059 | .312                             | .179 | .057 | .298 | .172 | .055 | .286 | .166 | .053 |   |  |
| 2.0  | .305                  | .167 | .051 | .299 | .164 | .051 | .286                             | .159 | .049 | .274 | .154 | .048 | .263 | .149 | .047 |   |  |
| 3.0  | .279                  | .148 | .044 | .273 | .146 | .044 | .262                             | .142 | .043 | .251 | .138 | .042 | .241 | .134 | .041 |   |  |
| 4.0  | .255                  | .133 | .039 | .250 | .131 | .039 | .240                             | .127 | .038 | .231 | .124 | .037 | .222 | .121 | .037 |   |  |
| 5.0  | .235                  | .120 | .035 | .230 | .118 | .034 | .221                             | .115 | .034 | .213 | .112 | .033 | .205 | .109 | .033 |   |  |
| 6.0  | .217                  | .109 | .031 | .213 | .108 | .031 | .205                             | .105 | .031 | .197 | .103 | .030 | .190 | .100 | .030 |   |  |
| 7.0  | .202                  | .100 | .028 | .198 | .099 | .028 | .191                             | .096 | .028 | .184 | .094 | .027 | .177 | .092 | .027 |   |  |
| 8.0  | .188                  | .092 | .026 | .184 | .091 | .026 | .178                             | .089 | .025 | .172 | .087 | .025 | .166 | .085 | .025 |   |  |
| 9.0  | .176                  | .085 | .024 | .173 | .084 | .024 | .167                             | .082 | .023 | .161 | .081 | .023 | .156 | .079 | .023 |   |  |
| 10.0 | .165                  | .079 | .022 | .162 | .078 | .022 | .157                             | .077 | .022 | .152 | .075 | .021 | .147 | .074 | .021 |   |  |

| pcc  | 80%                   |      |      | 70%  |      |      | 50%                                        |      |      | 30%  |      |      | 10%  |      |      | 0 |  |
|------|-----------------------|------|------|------|------|------|--------------------------------------------|------|------|------|------|------|------|------|------|---|--|
| pw   | 50%                   | 30%  | 10%  | 50%  | 30%  | 10%  | 50%                                        | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0 |  |
| pfc  | 20%                   |      |      | 20%  |      |      | 20%                                        |      |      | 20%  |      |      | 20%  |      |      | 0 |  |
| RCR  | RCR:Room Cavity Ratio |      |      |      |      |      | Ceiling Cavity Exitance Coefficients(CCEC) |      |      |      |      |      |      |      |      |   |  |
| 0.0  | .205                  | .205 | .205 | .175 | .175 | .175 | .120                                       | .120 | .120 | .069 | .069 | .069 | .022 | .022 | .022 |   |  |
| 1.0  | .197                  | .170 | .147 | .168 | .146 | .127 | .115                                       | .101 | .088 | .066 | .058 | .051 | .021 | .019 | .016 |   |  |
| 2.0  | .189                  | .146 | .111 | .162 | .126 | .096 | .111                                       | .087 | .067 | .064 | .051 | .039 | .020 | .016 | .013 |   |  |
| 3.0  | .181                  | .129 | .088 | .155 | .111 | .076 | .106                                       | .077 | .053 | .062 | .045 | .031 | .020 | .015 | .010 |   |  |
| 4.0  | .173                  | .116 | .072 | .149 | .100 | .063 | .102                                       | .070 | .044 | .059 | .041 | .026 | .019 | .013 | .009 |   |  |
| 5.0  | .166                  | .106 | .061 | .142 | .091 | .053 | .098                                       | .064 | .038 | .057 | .037 | .022 | .018 | .012 | .007 |   |  |
| 6.0  | .158                  | .097 | .054 | .136 | .084 | .047 | .094                                       | .059 | .033 | .054 | .035 | .020 | .018 | .011 | .006 |   |  |
| 7.0  | .151                  | .090 | .048 | .130 | .078 | .042 | .090                                       | .055 | .029 | .052 | .032 | .018 | .017 | .011 | .006 |   |  |
| 8.0  | .145                  | .085 | .043 | .125 | .073 | .038 | .086                                       | .052 | .027 | .050 | .030 | .016 | .016 | .010 | .005 |   |  |
| 9.0  | .139                  | .080 | .040 | .119 | .069 | .035 | .083                                       | .049 | .025 | .048 | .029 | .015 | .016 | .009 | .005 |   |  |
| 10.0 | .133                  | .075 | .037 | .115 | .066 | .033 | .079                                       | .046 | .023 | .046 | .027 | .014 | .015 | .009 | .005 |   |  |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Testing Room  
Test Date:2019-11-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
Humidity:65.0%  
Test Distance:11.160m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

|                                                                                |                  |      |      |      |                     |                |      |                  |      |      |      |
|--------------------------------------------------------------------------------|------------------|------|------|------|---------------------|----------------|------|------------------|------|------|------|
| Test:U:120.0V I:0.0928A P:10.45W PF:0.9382 Freq:59.98Hz Lamp Flux:670.423x1 lm |                  |      |      |      |                     |                |      |                  |      |      |      |
| NAME:                                                                          |                  |      |      |      | TYPE:DSK4R11927120W |                |      | WEIGHT:          |      |      |      |
| SPEC.:                                                                         |                  |      |      |      | DIM.:               |                |      | SERIAL No.:      |      |      |      |
| MFR.: RAB LIGHTING INC                                                         |                  |      |      |      | SUR.:               |                |      | Shielding Angle: |      |      |      |
| ceiling/cavity                                                                 | 0.7              | 0.7  | 0.5  | 0.5  | 0.3                 | 0.7            | 0.7  | 0.5              | 0.5  | 0.3  |      |
| walls                                                                          | 0.5              | 0.3  | 0.5  | 0.3  | 0.3                 | 0.5            | 0.3  | 0.5              | 0.3  | 0.3  |      |
| working plane                                                                  | 0.2              | 0.2  | 0.2  | 0.2  | 0.2                 | 0.2            | 0.2  | 0.2              | 0.2  | 0.2  |      |
| Room dimensions                                                                | Viewed crosswise |      |      |      |                     | Viewed endwise |      |                  |      |      |      |
| x = 2H y = 2H                                                                  | 2H               | 12.5 | 14.0 | 12.8 | 14.3                | 14.5           | 12.7 | 14.2             | 12.9 | 14.4 | 14.7 |
|                                                                                | 3H               | 14.0 | 15.4 | 14.4 | 15.7                | 16.0           | 14.3 | 15.7             | 14.6 | 16.0 | 16.3 |
|                                                                                | 4H               | 14.7 | 16.0 | 15.0 | 16.3                | 16.6           | 15.0 | 16.4             | 15.4 | 16.7 | 17.0 |
|                                                                                | 6H               | 15.3 | 16.5 | 15.6 | 16.8                | 17.2           | 15.7 | 17.0             | 16.1 | 17.3 | 17.6 |
|                                                                                | 8H               | 15.5 | 16.7 | 15.9 | 17.1                | 17.4           | 16.0 | 17.2             | 16.4 | 17.5 | 17.9 |
|                                                                                | 12H              | 15.7 | 16.9 | 16.1 | 17.3                | 17.6           | 16.3 | 17.5             | 16.7 | 17.8 | 18.2 |
| 4H                                                                             | 2H               | 13.1 | 14.5 | 13.5 | 14.8                | 15.1           | 13.2 | 14.6             | 13.6 | 14.9 | 15.2 |
|                                                                                | 3H               | 14.9 | 16.0 | 15.2 | 16.4                | 16.7           | 15.1 | 16.3             | 15.5 | 16.6 | 16.9 |
|                                                                                | 4H               | 15.7 | 16.8 | 16.1 | 17.1                | 17.5           | 16.0 | 17.0             | 16.4 | 17.4 | 17.8 |
|                                                                                | 6H               | 16.4 | 17.4 | 16.8 | 17.7                | 18.2           | 16.8 | 17.8             | 17.2 | 18.1 | 18.6 |
|                                                                                | 8H               | 16.7 | 17.6 | 17.2 | 18.0                | 18.5           | 17.2 | 18.1             | 17.6 | 18.5 | 18.9 |
|                                                                                | 12H              | 17.0 | 17.9 | 17.5 | 18.3                | 18.7           | 17.6 | 18.4             | 18.0 | 18.8 | 19.3 |
| 8H                                                                             | 4H               | 16.0 | 16.9 | 16.5 | 17.3                | 17.7           | 16.3 | 17.2             | 16.7 | 17.6 | 18.0 |
|                                                                                | 6H               | 16.9 | 17.7 | 17.4 | 18.1                | 18.6           | 17.3 | 18.1             | 17.8 | 18.5 | 19.0 |
|                                                                                | 8H               | 17.4 | 18.1 | 17.9 | 18.5                | 19.0           | 17.8 | 18.5             | 18.3 | 19.0 | 19.5 |
|                                                                                | 12H              | 17.9 | 18.4 | 18.4 | 18.9                | 19.4           | 18.4 | 19.0             | 18.9 | 19.5 | 20.0 |
| 12H                                                                            | 4H               | 16.1 | 16.9 | 16.5 | 17.3                | 17.8           | 16.3 | 17.1             | 16.8 | 17.6 | 18.0 |
|                                                                                | 6H               | 17.1 | 17.7 | 17.5 | 18.2                | 18.7           | 17.4 | 18.1             | 17.9 | 18.5 | 19.0 |
|                                                                                | 8H               | 17.6 | 18.2 | 18.1 | 18.7                | 19.2           | 18.0 | 18.6             | 18.5 | 19.1 | 19.6 |
| Variations with the observer position at spacings:                             |                  |      |      |      |                     |                |      |                  |      |      |      |
| S = 1.0H                                                                       | + 0.1 / - 0.2    |      |      |      |                     | + 0.1 / - 0.2  |      |                  |      |      |      |
| 1.5H                                                                           | + 0.2 / - 0.3    |      |      |      |                     | + 0.2 / - 0.3  |      |                  |      |      |      |
| 2.0H                                                                           | + 0.1 / - 0.3    |      |      |      |                     | + 0.1 / - 0.3  |      |                  |      |      |      |

CIE Pub.117, 670.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.4)

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Testing Room  
Test Date:2019-11-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
Humidity:65.0%  
Test Distance:11.160m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

|                                                                                |                     |                  |
|--------------------------------------------------------------------------------|---------------------|------------------|
| Test:U:120.0V I:0.0928A P:10.45W PF:0.9382 Freq:59.98Hz Lamp Flux:670.423x1 lm |                     |                  |
| NAME:                                                                          | TYPE:DSK4R11927120W | WEIGHT:          |
| SPEC.:                                                                         | DIM.:               | SERIAL No.:      |
| MFR.: RAB LIGHTING INC                                                         | SUR.:               | Shielding Angle: |

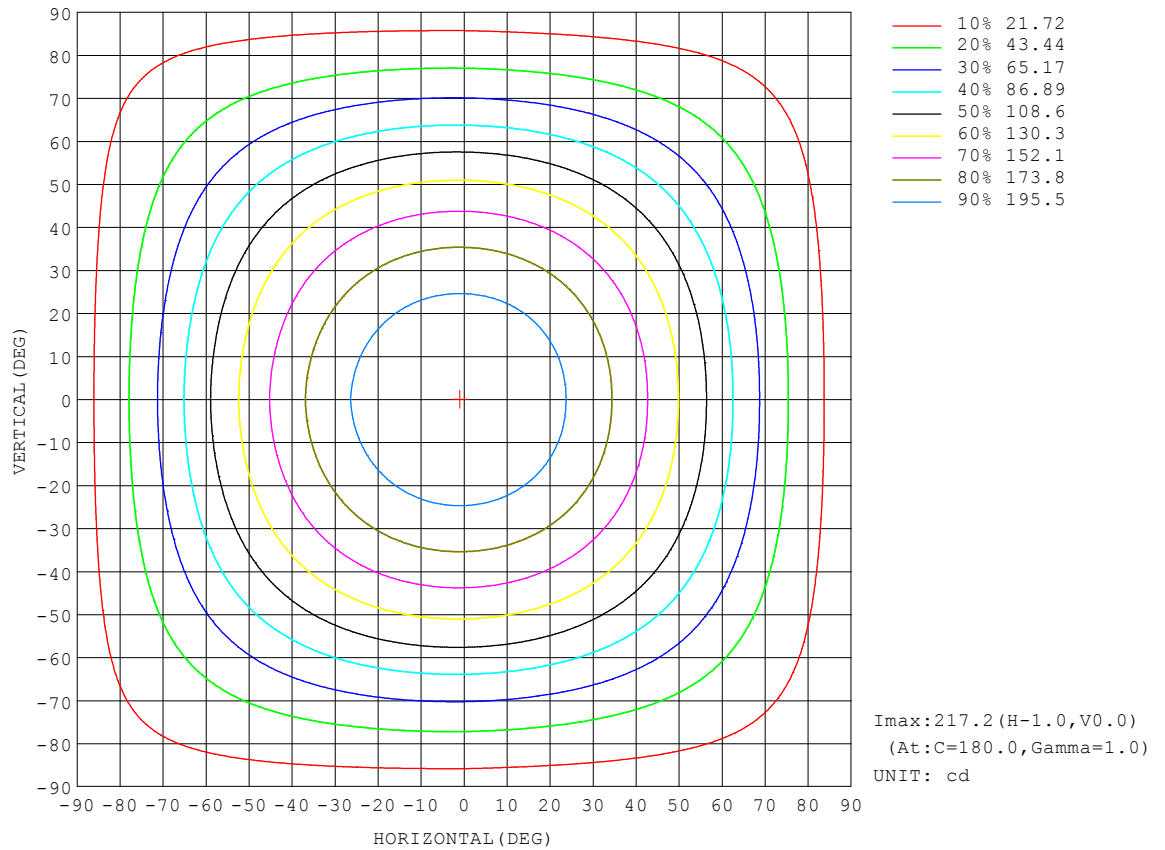
| REFLECTANCE                      |                                                      |     |           |     |     |     |     |               |     |        |
|----------------------------------|------------------------------------------------------|-----|-----------|-----|-----|-----|-----|---------------|-----|--------|
| Ceiling                          | 0.8                                                  | 0.8 | 0.8       | 0.7 | 0.7 | 0.7 | 0.5 | 0.5           | 0.5 | 0      |
| Walls                            | 0.7                                                  | 0.5 | 0.3       | 0.7 | 0.5 | 0.3 | 0.7 | 0.5           | 0.3 | 0      |
| Working plane                    | 0.2                                                  | 0.2 | 0.2       | 0.2 | 0.2 | 0.2 | 0.2 | 0.2           | 0.2 | 0      |
| ROOM INDEX                       | UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$ |     |           |     |     |     |     |               |     |        |
| $k = 0.60$                       | 56                                                   | 44  | 37        | 55  | 44  | 37  | 54  | 43            | 37  | 30     |
| 0.80                             | 66                                                   | 54  | 46        | 65  | 53  | 46  | 63  | 52            | 46  | 38     |
| 1.00                             | 74                                                   | 62  | 55        | 73  | 62  | 55  | 70  | 63            | 54  | 47     |
| 1.25                             | 81                                                   | 70  | 63        | 79  | 69  | 62  | 77  | 68            | 61  | 54     |
| 1.50                             | 86                                                   | 76  | 68        | 84  | 75  | 68  | 81  | 73            | 67  | 59     |
| 2.00                             | 93                                                   | 84  | 77        | 91  | 83  | 76  | 87  | 80            | 74  | 66     |
| 2.50                             | 97                                                   | 89  | 82        | 95  | 87  | 81  | 91  | 84            | 79  | 70     |
| 3.00                             | 100                                                  | 93  | 87        | 98  | 91  | 86  | 94  | 88            | 83  | 74     |
| 4.00                             | 105                                                  | 98  | 93        | 102 | 96  | 92  | 97  | 93            | 89  | 79     |
| 5.00                             | 107                                                  | 102 | 97        | 104 | 100 | 96  | 100 | 96            | 92  | 82     |
| ROOM INDEX                       | UF (total)                                           |     |           |     |     |     |     |               |     | Direct |
| According to DIN EN 13032-2 2004 |                                                      |     | Suspended |     |     |     |     | SHRNOM = 1.25 |     |        |

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Testing Room  
Test Date:2019-11-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
Humidity:65.0%  
Test Distance:11.160m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

|                                                                                |                     |                  |
|--------------------------------------------------------------------------------|---------------------|------------------|
| Test:U:120.0V I:0.0928A P:10.45W PF:0.9382 Freq:59.98Hz Lamp Flux:670.423x1 lm |                     |                  |
| NAME:                                                                          | TYPE:DSK4R11927120W | WEIGHT:          |
| SPEC.:                                                                         | DIM.:               | SERIAL No.:      |
| MFR.: RAB LIGHTING INC                                                         | SUR.:               | Shielding Angle: |



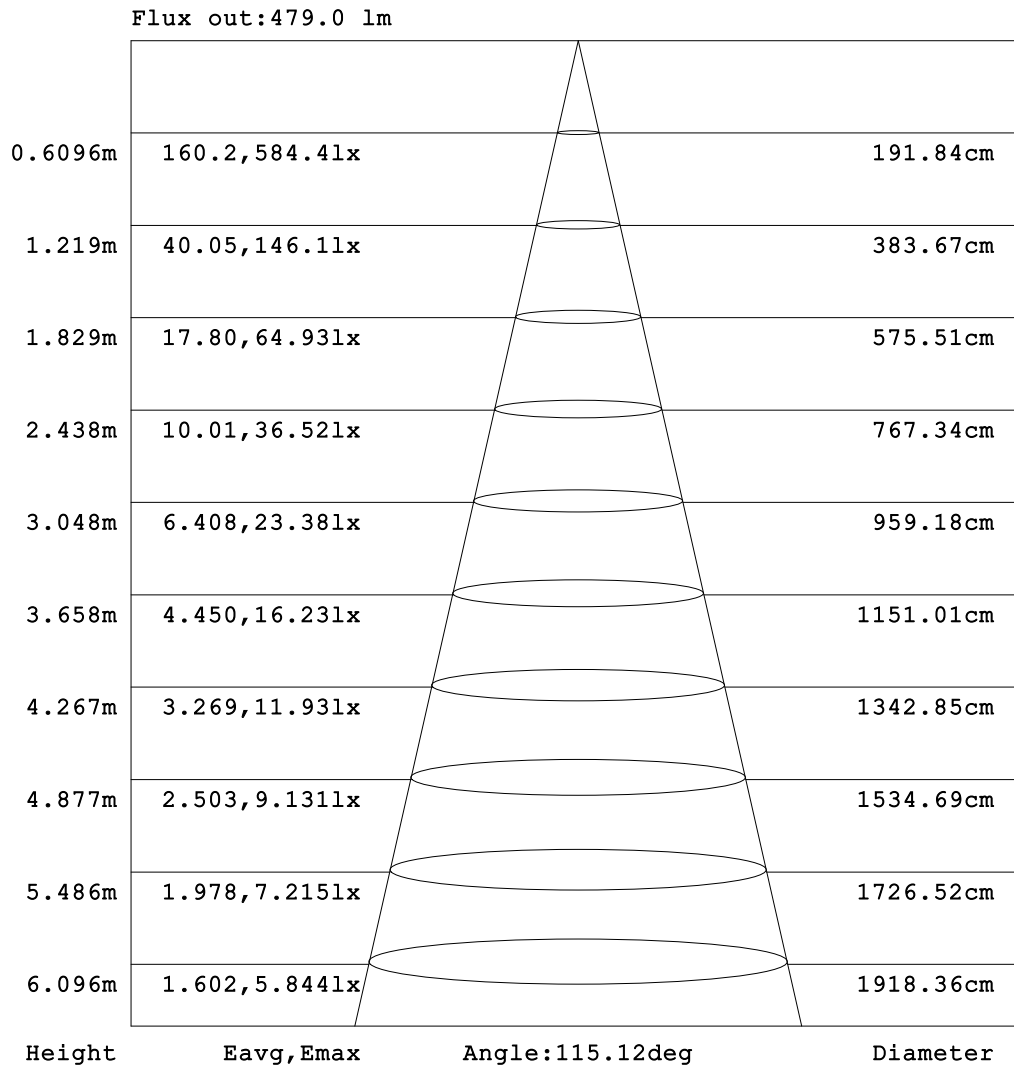
C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Testing Room  
Test Date:2019-11-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
Humidity:65.0%  
Test Distance:11.160m [K=1.0000]  
Remarks:



AAI Figure

|                                                                                |                     |                  |
|--------------------------------------------------------------------------------|---------------------|------------------|
| Test:U:120.0V I:0.0928A P:10.45W PF:0.9382 Freq:59.98Hz Lamp Flux:670.423x1 lm |                     |                  |
| NAME:                                                                          | TYPE:DSK4R11927120W | WEIGHT:          |
| SPEC.:                                                                         | DIM.:               | SERIAL No.:      |
| MFR.: RAB LIGHTING INC                                                         | SUR.:               | Shielding Angle: |

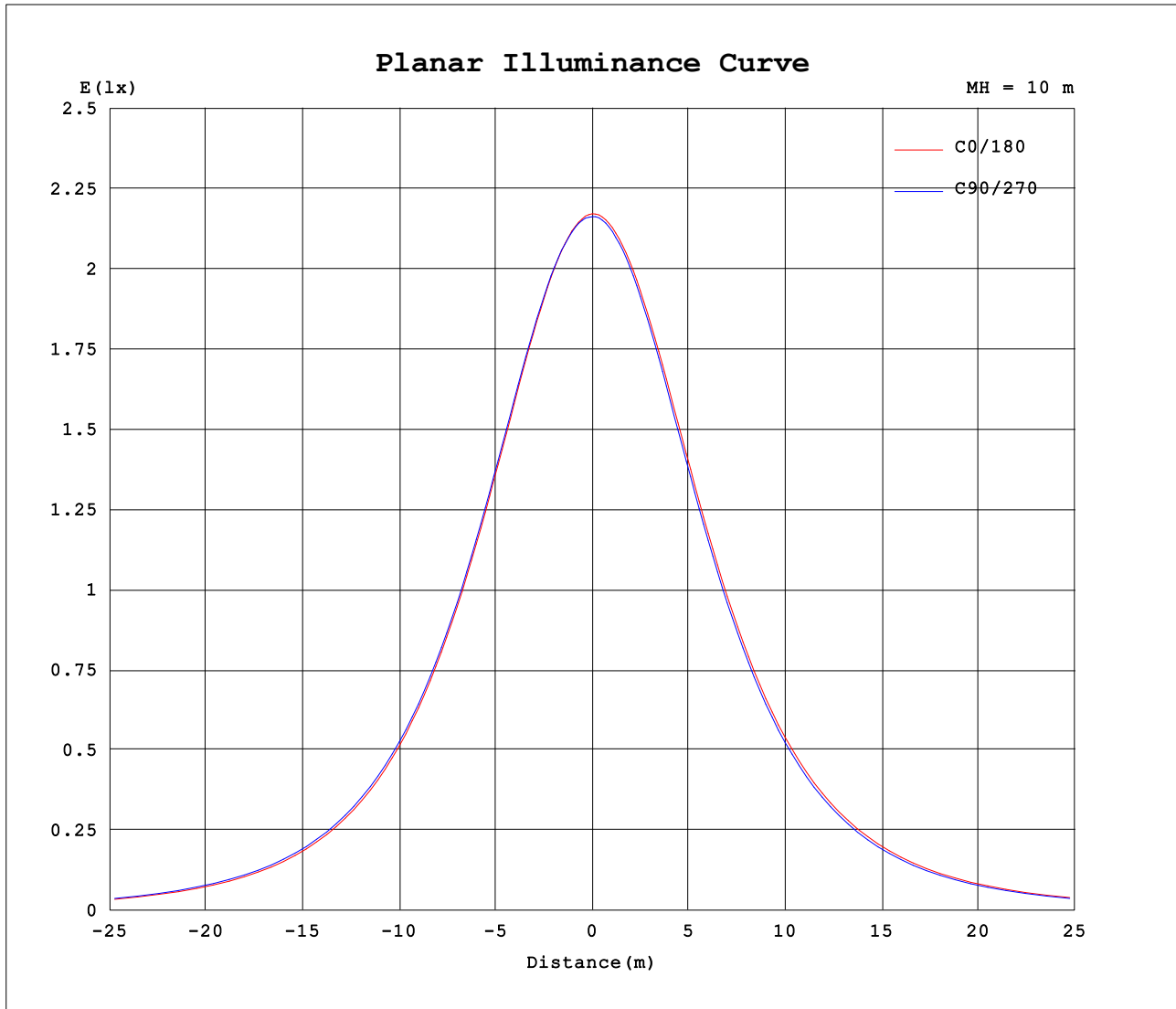


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 90.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Testing Room  
Test Date: 2019-11-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
Humidity: 65.0%  
Test Distance: 11.160m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 90.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Testing Room  
 Test Date: 2019-11-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-3000H\_V1 SYSTEM V2.0.361  
 Humidity: 65.0%  
 Test Distance: 11.160m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

|                                                                                |                     |                  |
|--------------------------------------------------------------------------------|---------------------|------------------|
| Test:U:120.0V I:0.0928A P:10.45W PF:0.9382 Freq:59.98Hz Lamp Flux:670.423x1 lm |                     |                  |
| NAME:                                                                          | TYPE:DSK4R11927120W | WEIGHT:          |
| SPEC.:                                                                         | DIM.:               | SERIAL No.:      |
| MFR.: RAB LIGHTING INC                                                         | SUR.:               | Shielding Angle: |

Table--1

UNIT: cd

| C (DEG)<br>γ (DEG) | 0    | 90   | 180  | 270  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                  | 217  | 216  | 217  | 216  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                  | 216  | 215  | 217  | 216  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                 | 213  | 213  | 214  | 213  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                 | 208  | 209  | 211  | 208  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20                 | 201  | 203  | 205  | 203  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                 | 193  | 195  | 198  | 195  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30                 | 183  | 186  | 189  | 185  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                 | 172  | 175  | 178  | 174  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40                 | 159  | 162  | 166  | 162  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                 | 145  | 149  | 153  | 148  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 50                 | 130  | 134  | 138  | 133  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55                 | 113  | 118  | 122  | 117  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 60                 | 95.9 | 101  | 105  | 99.9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 65                 | 78.2 | 83.1 | 87.4 | 82.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 70                 | 60.8 | 66.1 | 69.7 | 65.4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 75                 | 44.6 | 50.1 | 52.7 | 49.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 80                 | 30.5 | 35.7 | 37.3 | 35.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 85                 | 19.1 | 23.6 | 24.2 | 23.1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 90                 | 10.6 | 13.8 | 13.9 | 13.8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 95                 | 4.87 | 0.64 | 6.53 | 2.05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 100                | 0.62 | 1.11 | 0.61 | 1.35 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 105                | 0.76 | 0.66 | 0.75 | 0.66 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 110                | 0.85 | 0.84 | 0.88 | 0.84 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 115                | 1.03 | 0.96 | 1.04 | 1.00 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 120                | 1.17 | 1.11 | 1.18 | 1.12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 125                | 1.31 | 1.26 | 1.33 | 1.26 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 130                | 1.51 | 1.38 | 1.46 | 1.39 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 135                | 1.62 | 1.51 | 1.63 | 1.59 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 140                | 1.70 | 1.59 | 1.70 | 1.76 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 145                | 1.69 | 1.65 | 1.76 | 1.78 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 150                | 1.73 | 1.81 | 1.81 | 1.78 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 155                | 1.83 | 1.83 | 1.84 | 1.87 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 160                | 1.86 | 1.89 | 1.99 | 1.97 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 165                | 1.96 | 1.97 | 2.03 | 2.01 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 170                | 2.00 | 2.00 | 2.04 | 2.04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 175                | 2.03 | 2.05 | 2.05 | 2.03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 180                | 2.04 | 2.05 | 2.05 | 2.04 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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