



## Product Test Report - Goniometer Luminaire Evaluation

Method: LM-79:2019

Evaluation: Photometric Summary

### Test results reported for:

LightArt A 3FORM COMPANY

Product Description: Ribbon Cloud Pendant Grey 18in

### Issued Report:

LIGT011-042\_Ribbon Cloud Pendant Grey 18in

Project: 80072634 - TPPPT

### Original issue date:

Friday, February 26, 2021

### Revision Issue Date:

Thursday, March 4, 2021

### Prepared for:

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## Product Test Report - Goniometer Luminaire Evaluation

**Manufacturer:** LightArt A 3FORM COMPANY

**Report Number:** LIGT011-042

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### SAMPLE DESCRIPTION

Lab sample identification: 1

Customer Identification: Configuration A

Manufacturer: LightArt A 3FORM COMPANY

Part number: NA

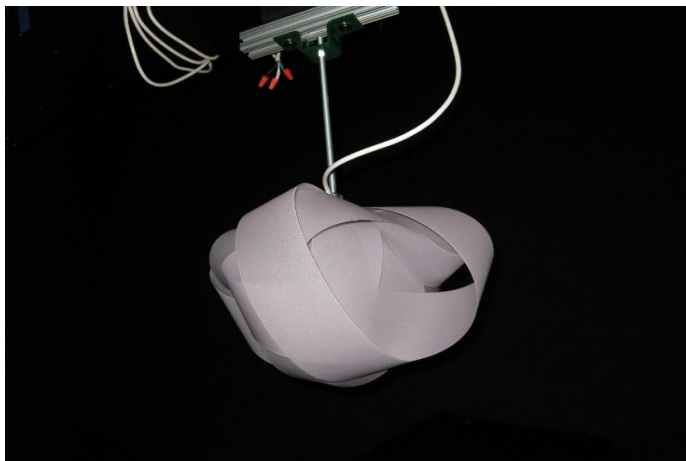
Model Number: NA

Description: Ribbon Cloud Pendant Grey 18in

Manufacturer's ratings

|                    |        |
|--------------------|--------|
| Max Current (A):   | NA     |
| Operating voltage: | 120VAC |
| CCT:               | NA     |
| Frequency (Hz):    | 50-60  |
| Type:              | LED    |

#### Sample Device Southern Hemisphere

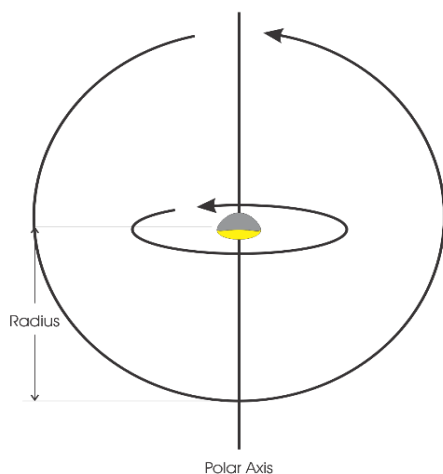


#### Sample Device Northern Hemisphere

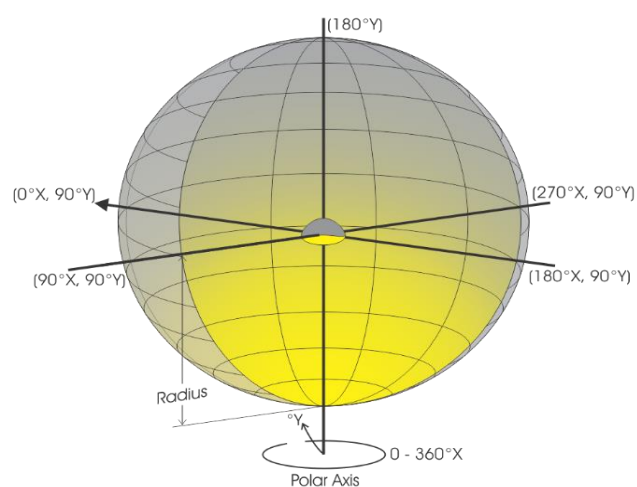


Image At 0° and 0°, See Equipment Geometry

#### Equipment Geometry - For Sample Device Mounted



#### Test Geometry - Type C Coordinates



#### Coordinate System Description

##### Reference: LM-75-01 Goniophotometer Types and Photometric Coordinates

Type C coordinate system, the polar axis is vertical. The angles measure in the vertical half planes of data are called vertical angles, and the angles to the horizontal half planes are called lateral angles. The vertical V angles range in value from 0° to 180°. The lateral L planes range in value from 0° to 360°.

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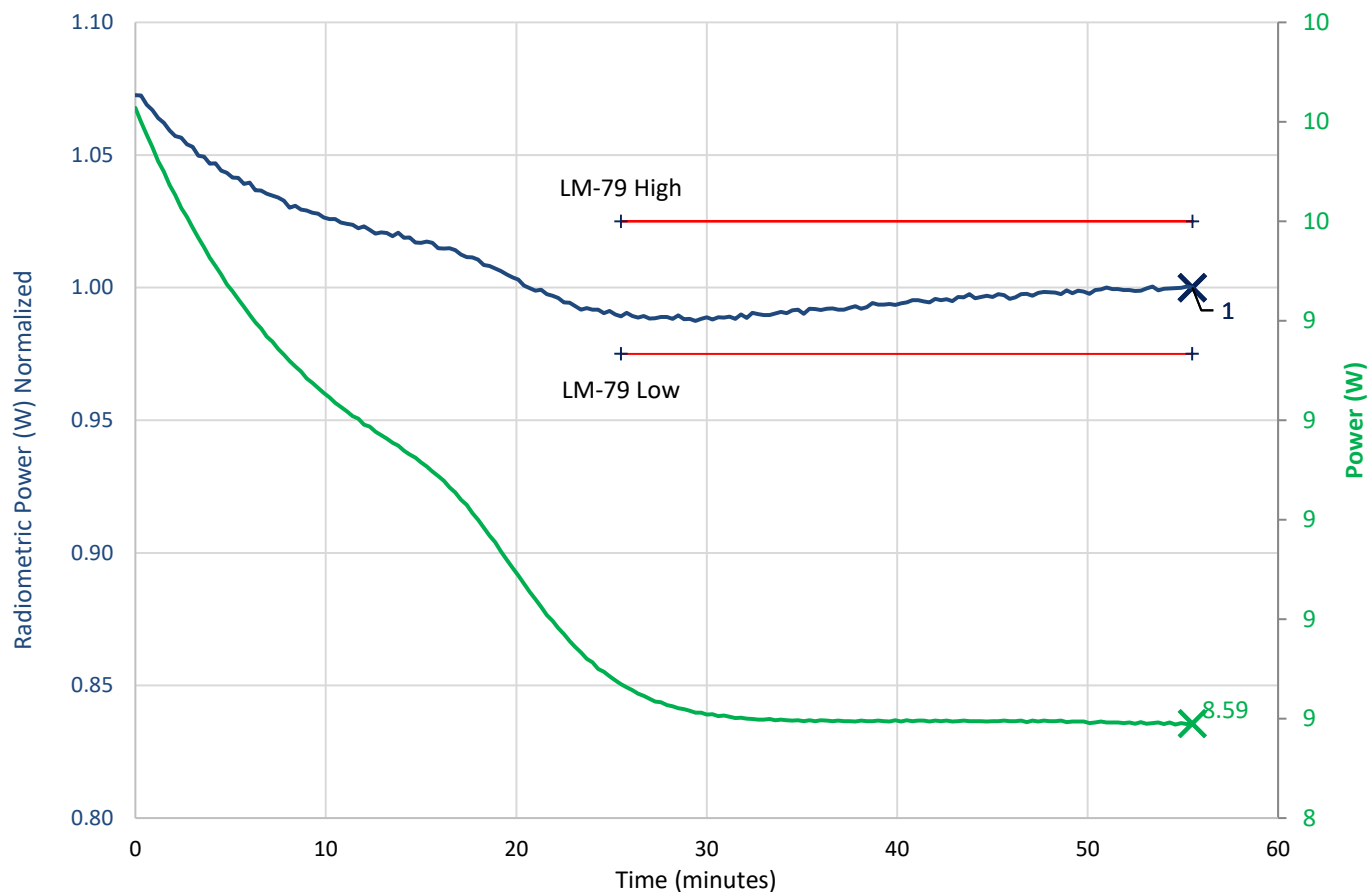
**Release Date:** 2/26/2021

### OPTICAL STABILIZATION

Stabilization Description - A series of 186 measurements are recorded during the stabilization period. The final stabilized measurement of normalized radiant power, as defined by LM-79:2019, is reported after 55 minutes of recorded device runtime. The 'Measurements in Range', provided below, are a histogram of measurements recorded during the 30 minute stabilization window.

| % of range | Power (W)<br>Normalized | Measurements<br>in Range |
|------------|-------------------------|--------------------------|
| 98.743%    | 0.99                    | 12                       |
| 98.873%    | 0.99                    | 14                       |
| 99.002%    | 0.99                    | 8                        |
| 99.132%    | 0.99                    | 16                       |
| 99.261%    | 0.99                    | 6                        |
| 99.390%    | 0.99                    | 8                        |
| 99.520%    | 1.00                    | 13                       |
| 99.649%    | 1.00                    | 11                       |
| 99.779%    | 1.00                    | 14                       |
| 99.908%    | 1.00                    | 15                       |
| 100.000%   | 1.00                    | Reported                 |

| % of range | Power (W) | Measurements<br>in Range |
|------------|-----------|--------------------------|
| 99.977%    | 8.59      | 66                       |
| 100.080%   | 8.60      | 17                       |
| 100.184%   | 8.61      | 5                        |
| 100.288%   | 8.61      | 3                        |
| 100.391%   | 8.62      | 2                        |
| 100.495%   | 8.63      | 3                        |
| 100.598%   | 8.64      | 2                        |
| 100.702%   | 8.65      | 1                        |
| 100.806%   | 8.66      | 1                        |
| 100.909%   | 8.67      | 2                        |
| 100.000%   | 8.59      | Reported                 |



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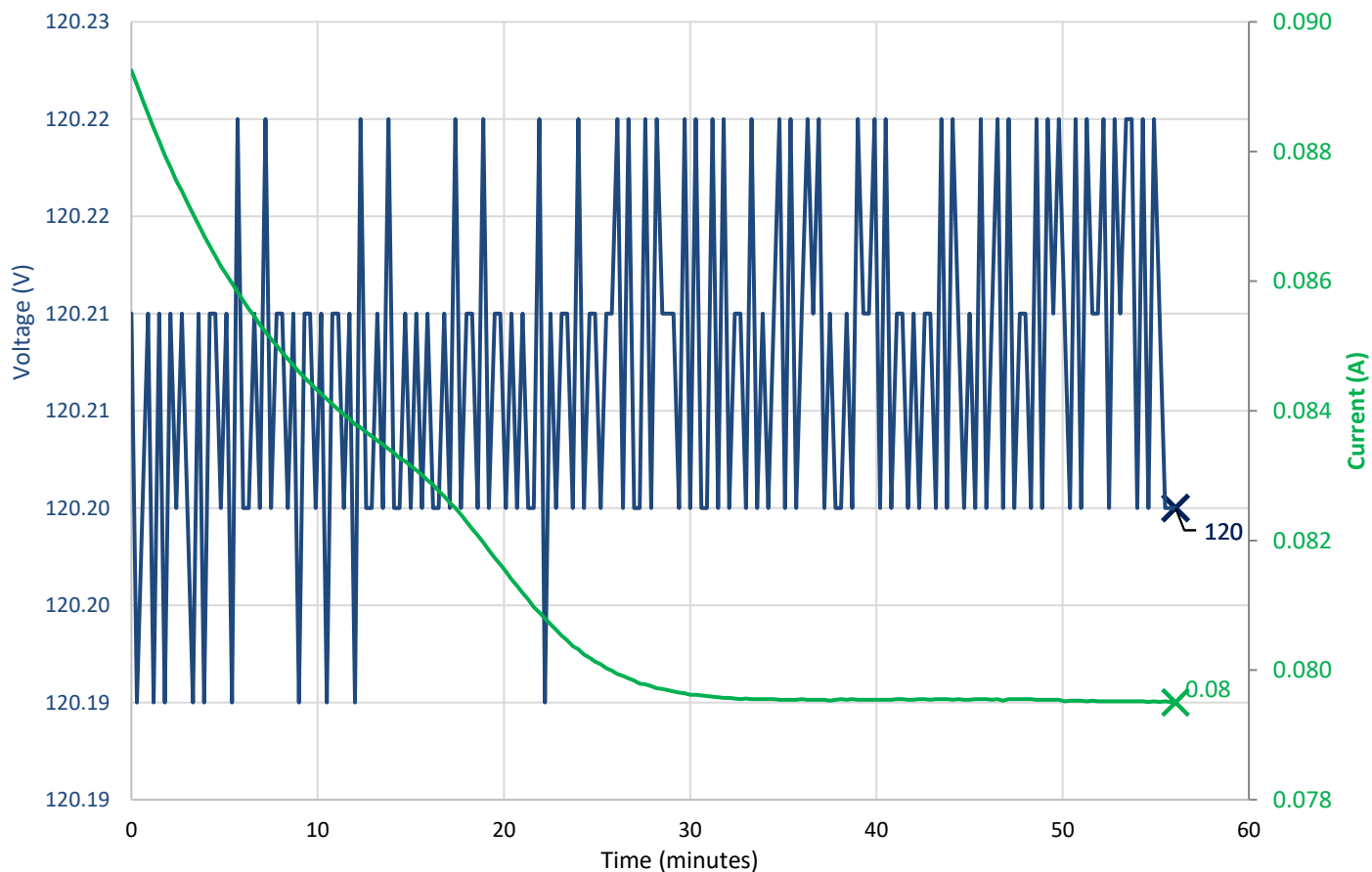
**Release Date:** 2/26/2021

### ELECTRICAL STABILIZATION

Stabilization Description - A series of 187 measurements are recorded during the stabilization period. The final stabilized measurement, as defined by LM-79:2019, is reported after 56 minutes of recorded device runtime. The 'Measurements in Range', provided below, are a histogram of measurements recorded during the 30 minute stabilization window.

| % of range | Voltage (V) | Measurements in Range |
|------------|-------------|-----------------------|
| 100.000%   | 120.20      | 71                    |
| 100.002%   | 120.20      | 0                     |
| 100.003%   | 120.20      | 0                     |
| 100.005%   | 120.21      | 0                     |
| 100.007%   | 120.21      | 66                    |
| 100.008%   | 120.21      | 66                    |
| 100.010%   | 120.21      | 0                     |
| 100.012%   | 120.21      | 0                     |
| 100.013%   | 120.22      | 0                     |
| 100.015%   | 120.22      | 40                    |
| 100.000%   | 120.20      | Reported              |

| % of range | Current (A) | Measurements in Range |
|------------|-------------|-----------------------|
| 100.000%   | 0.080       | 51                    |
| 100.062%   | 0.080       | 32                    |
| 100.123%   | 0.080       | 5                     |
| 100.185%   | 0.080       | 3                     |
| 100.247%   | 0.080       | 2                     |
| 100.308%   | 0.080       | 3                     |
| 100.370%   | 0.080       | 1                     |
| 100.431%   | 0.080       | 1                     |
| 100.493%   | 0.080       | 2                     |
| 100.555%   | 0.080       | 1                     |
| 100.000%   | 0.080       | Reported              |



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### PHOTOMETRIC SUMMARY

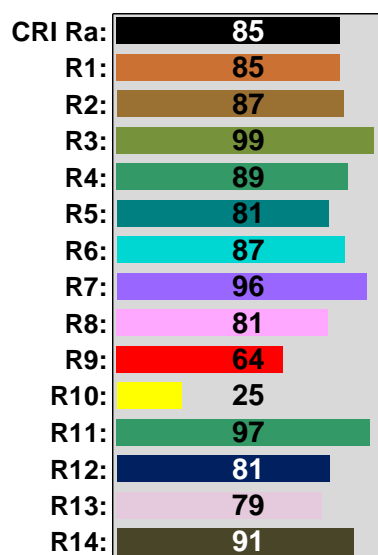
#### Radiometric Measurements

**Peak Wl:** 605.8 nm  
**FWHM:** 156.3 nm  
**Centroid Wl:** 595.5 nm

#### Photometric Measurements

**Photopic Power:** 290 lm  
**Luminous Efficacy:** 34 lm/W  
**CCT:** 3089 K

#### Color Rendering Index



#### Color Coordinates

**Cx:** 0.4295  
**Cy:** 0.3992  
**u:** 0.2479  
**v:** 0.3456  
**u':** 0.2479  
**v':** 0.5184  
**Duv:** -0.0009  
**Du'v':** 0.0000

**Color Purity:** - %  
**Dom Wl:** 582.8 nm  
**Comp Wl:** 482.3 nm  
**Gamut Area:** 0.512

#### Electrical Performance

**Voltage:** 120.200 V  
**Current:** 0.080 A  
**Frequency:** 59.969 Hz  
**Active Power (P):** 8.588 W  
**Apparent Power:** 9.556 VA  
**Power Factor:** 0.899 W/VA  
**THD Voltage:** 0.2 %  
**THD Current:** 44.6 %

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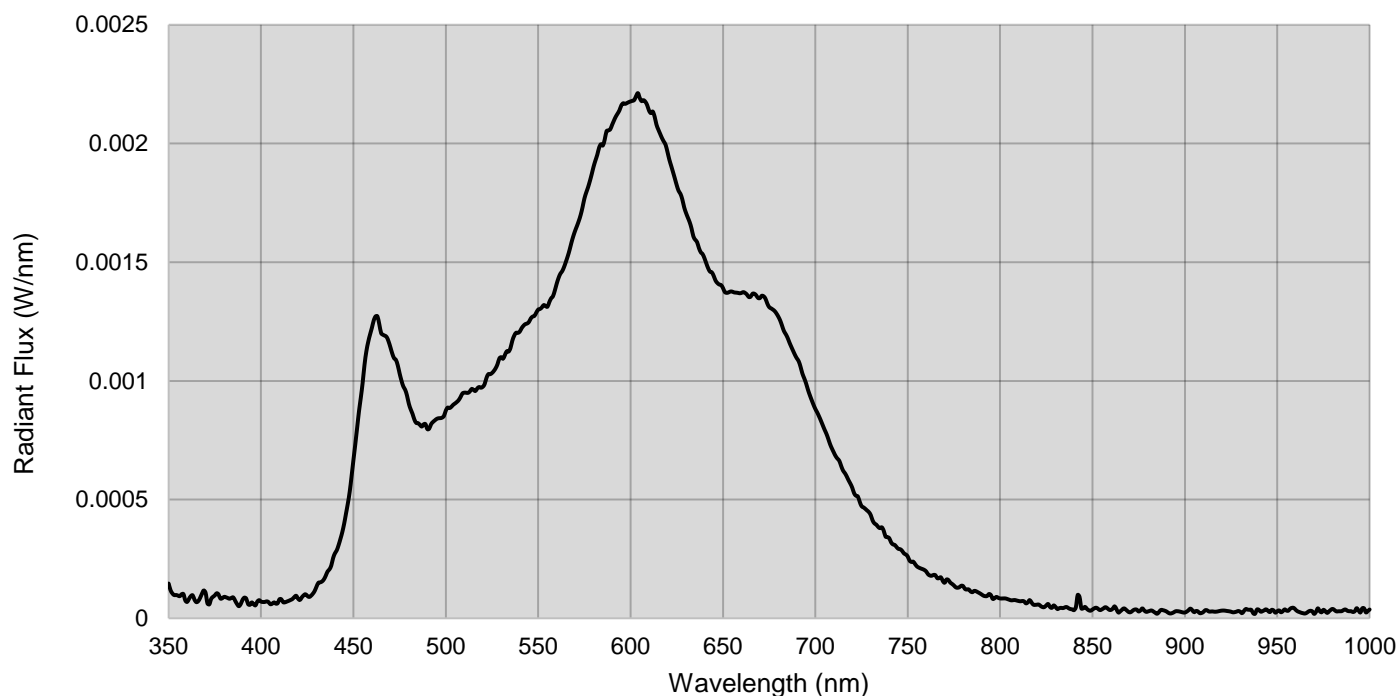
Report Number: LIGT011-042

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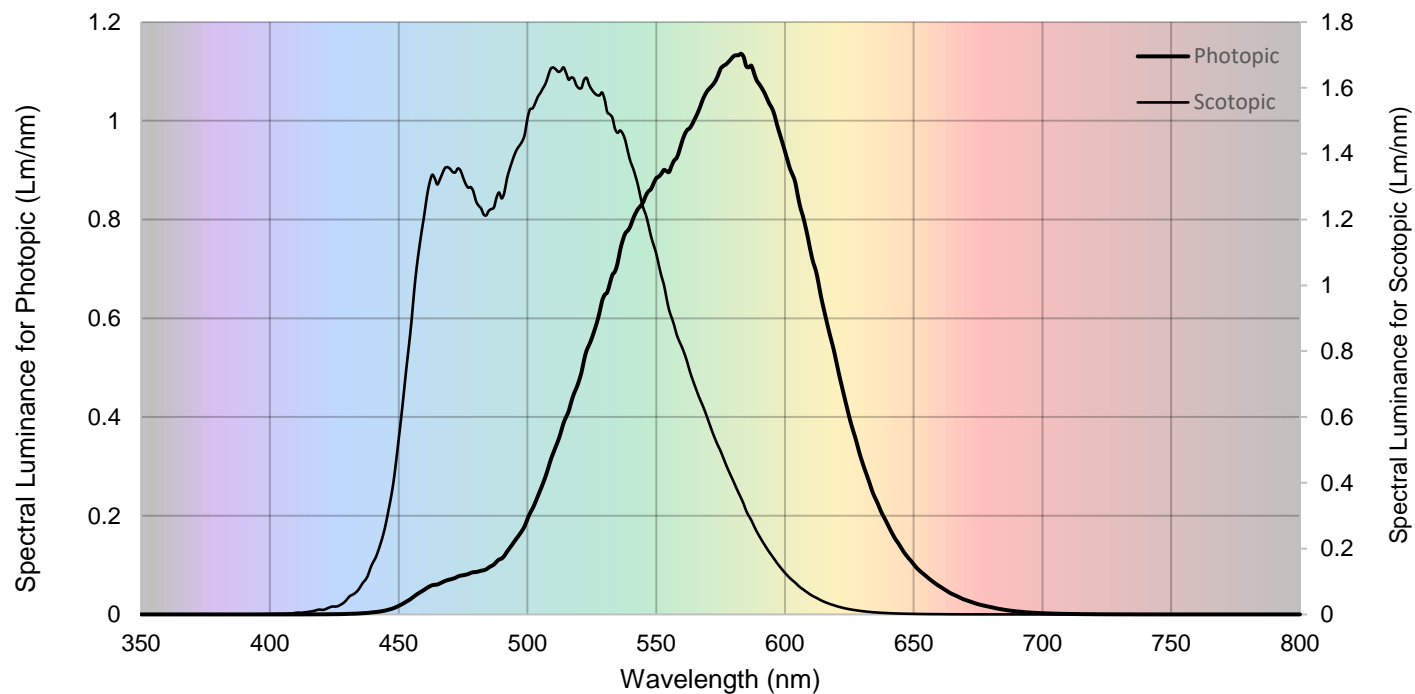
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### VISIBLE SPECTRUM

#### Radiometric Spectrum



#### Photopic and Scotopic Spectrum



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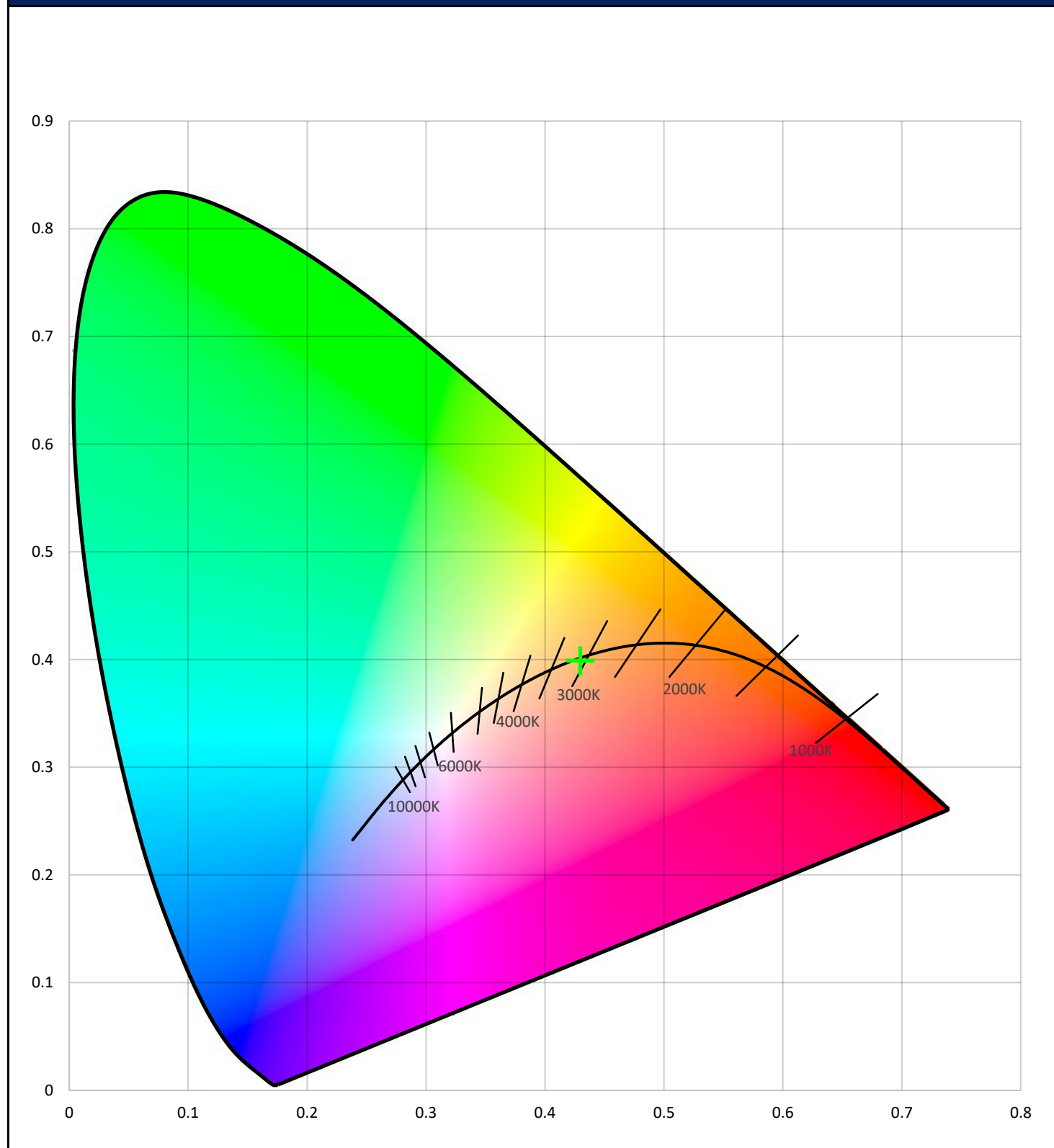
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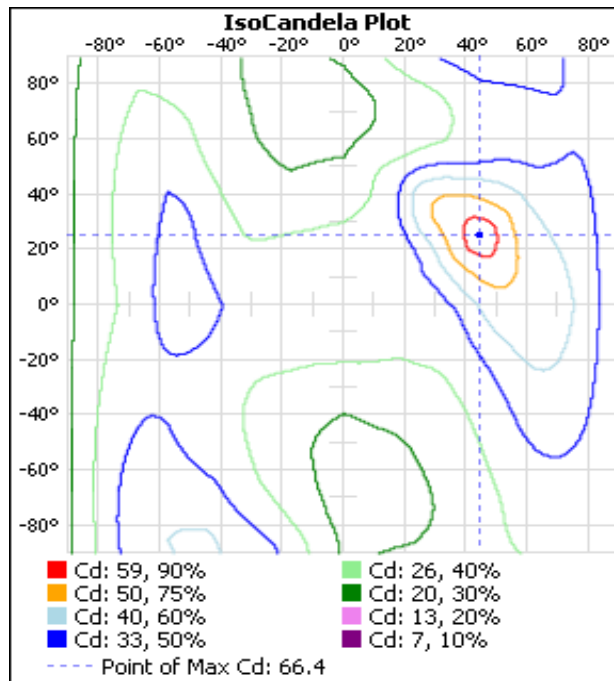
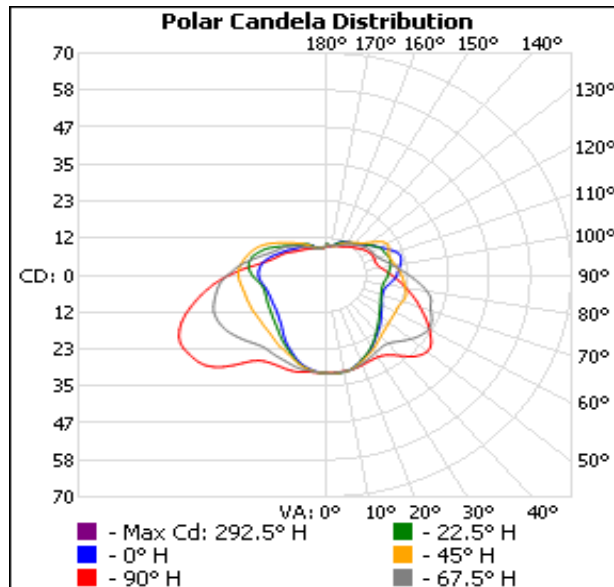
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### CANDELA PLOTS



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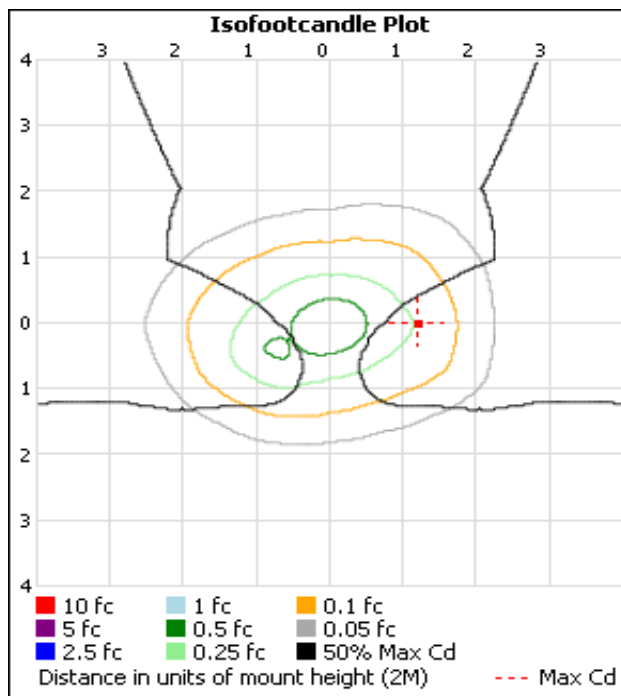
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### ILLUMINANCE PLOTS



**Illuminance at a Distance**

|       | Center Beam fc | Beam Width    |
|-------|----------------|---------------|
| 0.33M | 26.0 fc        | 0.48 M 0.40 M |
| 0.67M | 6.44 fc        | 0.96 M 0.80 M |
| 1.00M | 2.87 fc        | 1.44 M 1.20 M |
| 1.33M | 1.62 fc        | 1.91 M 1.60 M |
| 1.67M | 1.03 fc        | 2.39 M 2.01 M |
| 2.00M | 0.72 fc        | 2.87 M 2.41 M |

■ Vert. Spread: 71.4°  
■ Horiz. Spread: 62.1°

### ZONAL LUMEN SUMMARY

| Zonal Lumen Summary |        |             |
|---------------------|--------|-------------|
| Zone                | Lumens | % Luminaire |
| 0-30                | 24.7   | 8.50%       |
| 0-40                | 42.5   | 14.70%      |
| 0-60                | 92.6   | 32.00%      |
| 60-90               | 85.3   | 29.40%      |
| 70-100              | 86.8   | 30.00%      |
| 90-120              | 72.2   | 24.90%      |
| 0-90                | 177.9  | 61.40%      |
| 90-180              | 111.9  | 38.60%      |
| 0-180               | 289.7  | 100.00%     |

| Lumens Per Zone |        |         |
|-----------------|--------|---------|
| Zone            | Lumens | % Total |
| 0-10            | 2.9    | 1.00%   |
| 44489           | 8.5    | 2.90%   |
| 20-30           | 13.3   | 4.60%   |
| 30-40           | 17.8   | 6.10%   |
| 40-50           | 23.4   | 8.10%   |
| 50-60           | 26.7   | 9.20%   |
| 60-70           | 27.4   | 9.40%   |
| 70-80           | 28.3   | 9.80%   |
| 80-90           | 29.6   | 10.20%  |
| 90-100          | 28.9   | 10.00%  |
| 100-110         | 24.6   | 8.50%   |
| 110-120         | 18.7   | 6.50%   |
| 120-130         | 13.9   | 4.80%   |
| 130-140         | 10.2   | 3.50%   |
| 140-150         | 7.3    | 2.50%   |
| 150-160         | 4.8    | 1.70%   |
| 160-170         | 2.6    | 0.90%   |
| 170-180         | 0.8    | 0.30%   |

Lower Hemisphere

Upper Hemisphere

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## CANDELA TABLE

LOWER HEMISPHERE

|            | 0    | 0  | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 | 202.5 | 225 | 247.5 | 270 | 292.5 | 315 | 337.5 | 360 |
|------------|------|----|------|----|------|----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| South Pole | 0    | 31 | 31   | 31 | 31   | 31 | 31    | 31  | 31    | 31  | 31    | 31  | 31    | 31  | 31    | 31  | 31    | 31  |
|            | 2.5  | 31 | 31   | 31 | 31   | 31 | 31    | 31  | 31    | 31  | 31    | 31  | 31    | 31  | 31    | 31  | 31    | 31  |
|            | 5    | 31 | 31   | 31 | 31   | 31 | 31    | 31  | 30    | 30  | 31    | 31  | 31    | 31  | 31    | 31  | 31    | 31  |
|            | 7.5  | 31 | 31   | 31 | 31   | 31 | 31    | 30  | 30    | 30  | 30    | 30  | 30    | 31  | 31    | 31  | 31    | 31  |
|            | 10   | 31 | 31   | 31 | 31   | 31 | 31    | 30  | 30    | 30  | 30    | 30  | 30    | 31  | 31    | 31  | 31    | 31  |
|            | 12.5 | 31 | 31   | 31 | 31   | 31 | 30    | 30  | 29    | 29  | 29    | 30  | 30    | 31  | 32    | 32  | 31    | 31  |
|            | 15   | 30 | 30   | 31 | 31   | 31 | 30    | 30  | 29    | 28  | 29    | 29  | 30    | 32  | 32    | 32  | 31    | 30  |
|            | 17.5 | 30 | 30   | 30 | 30   | 31 | 30    | 29  | 28    | 27  | 28    | 28  | 30    | 32  | 32    | 32  | 31    | 30  |
|            | 20   | 29 | 29   | 29 | 30   | 30 | 30    | 29  | 27    | 27  | 27    | 28  | 30    | 32  | 32    | 32  | 31    | 29  |
|            | 22.5 | 28 | 28   | 29 | 30   | 30 | 30    | 28  | 26    | 26  | 26    | 27  | 29    | 32  | 32    | 32  | 31    | 29  |
|            | 25   | 28 | 28   | 28 | 29   | 30 | 30    | 28  | 26    | 25  | 25    | 27  | 29    | 32  | 33    | 32  | 30    | 28  |
|            | 27.5 | 27 | 27   | 28 | 29   | 30 | 29    | 28  | 25    | 24  | 25    | 26  | 29    | 32  | 33    | 32  | 30    | 27  |
|            | 30   | 26 | 26   | 27 | 28   | 30 | 29    | 27  | 24    | 23  | 24    | 26  | 29    | 32  | 33    | 33  | 30    | 27  |
|            | 32.5 | 26 | 25   | 27 | 28   | 30 | 29    | 27  | 24    | 22  | 23    | 25  | 29    | 32  | 36    | 34  | 29    | 26  |
|            | 35   | 25 | 24   | 26 | 28   | 31 | 29    | 26  | 23    | 21  | 23    | 25  | 29    | 33  | 41    | 38  | 29    | 25  |
|            | 37.5 | 24 | 24   | 25 | 28   | 32 | 29    | 26  | 22    | 20  | 22    | 25  | 29    | 34  | 46    | 42  | 29    | 24  |
|            | 40   | 23 | 23   | 25 | 28   | 33 | 29    | 26  | 22    | 20  | 21    | 24  | 29    | 36  | 52    | 46  | 28    | 24  |
|            | 42.5 | 23 | 22   | 24 | 29   | 35 | 30    | 26  | 22    | 19  | 21    | 24  | 29    | 39  | 57    | 50  | 29    | 23  |
|            | 45   | 22 | 21   | 24 | 30   | 36 | 30    | 26  | 21    | 19  | 20    | 24  | 30    | 41  | 61    | 52  | 29    | 22  |
|            | 47.5 | 21 | 21   | 24 | 31   | 37 | 30    | 26  | 21    | 18  | 20    | 24  | 31    | 43  | 64    | 52  | 30    | 22  |
|            | 50   | 21 | 20   | 24 | 31   | 38 | 30    | 26  | 21    | 18  | 20    | 23  | 31    | 44  | 66    | 49  | 29    | 21  |
|            | 52.5 | 20 | 19   | 23 | 32   | 38 | 30    | 27  | 21    | 18  | 19    | 23  | 32    | 45  | 65    | 45  | 28    | 20  |
|            | 55   | 20 | 19   | 23 | 33   | 37 | 30    | 27  | 22    | 17  | 19    | 23  | 32    | 46  | 60    | 41  | 27    | 20  |
|            | 57.5 | 19 | 19   | 23 | 34   | 36 | 31    | 28  | 22    | 17  | 19    | 23  | 33    | 46  | 55    | 37  | 25    | 19  |
|            | 60   | 19 | 18   | 23 | 34   | 34 | 31    | 29  | 22    | 17  | 19    | 23  | 33    | 46  | 50    | 33  | 24    | 19  |
|            | 62.5 | 18 | 18   | 23 | 34   | 33 | 32    | 30  | 23    | 17  | 18    | 23  | 34    | 46  | 45    | 30  | 23    | 18  |
|            | 65   | 18 | 17   | 23 | 33   | 31 | 32    | 31  | 23    | 17  | 18    | 23  | 34    | 46  | 41    | 29  | 22    | 18  |
|            | 67.5 | 18 | 17   | 23 | 33   | 30 | 33    | 32  | 24    | 17  | 18    | 23  | 34    | 45  | 37    | 28  | 22    | 18  |
|            | 70   | 17 | 17   | 24 | 32   | 29 | 34    | 33  | 25    | 17  | 18    | 23  | 34    | 43  | 35    | 28  | 22    | 17  |
|            | 72.5 | 17 | 17   | 24 | 31   | 27 | 35    | 34  | 26    | 17  | 18    | 23  | 33    | 42  | 33    | 28  | 22    | 17  |
|            | 75   | 17 | 17   | 24 | 31   | 26 | 36    | 35  | 27    | 17  | 18    | 23  | 33    | 40  | 32    | 29  | 23    | 17  |
|            | 77.5 | 18 | 17   | 24 | 31   | 25 | 37    | 36  | 28    | 17  | 18    | 24  | 32    | 38  | 31    | 29  | 24    | 17  |
|            | 80   | 18 | 17   | 23 | 29   | 23 | 38    | 38  | 29    | 18  | 18    | 24  | 31    | 36  | 31    | 31  | 25    | 18  |
|            | 82.5 | 19 | 17   | 23 | 28   | 22 | 38    | 39  | 31    | 18  | 19    | 24  | 31    | 34  | 32    | 32  | 26    | 18  |
|            | 85   | 19 | 17   | 22 | 27   | 21 | 39    | 40  | 32    | 19  | 19    | 24  | 30    | 32  | 33    | 34  | 28    | 19  |
|            | 87.5 | 20 | 18   | 22 | 25   | 20 | 39    | 41  | 33    | 19  | 20    | 24  | 29    | 29  | 34    | 35  | 29    | 19  |
| Equator    | 90   | 20 | 18   | 22 | 24   | 19 | 38    | 41  | 34    | 19  | 21    | 25  | 28    | 27  | 34    | 37  | 31    | 20  |

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CANDELA TABLE

LOWER HEMISPHERE

Equator

North Pole

| 0     | 0  | 22.5 | 45 | 67.5 | 90 | 112.5 | 135 | 157.5 | 180 | 202.5 | 225 | 247.5 | 270 | 292.5 | 315 | 337.5 | 360 |
|-------|----|------|----|------|----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| 90    | 20 | 18   | 22 | 24   | 19 | 38    | 41  | 34    | 19  | 21    | 25  | 28    | 27  | 34    | 37  | 31    | 20  |
| 92.5  | 21 | 18   | 21 | 23   | 18 | 36    | 41  | 34    | 19  | 21    | 25  | 26    | 25  | 34    | 38  | 33    | 20  |
| 95    | 21 | 18   | 21 | 21   | 17 | 34    | 41  | 34    | 19  | 22    | 24  | 25    | 23  | 34    | 38  | 34    | 21  |
| 97.5  | 21 | 19   | 20 | 20   | 16 | 31    | 39  | 33    | 19  | 22    | 24  | 24    | 21  | 32    | 39  | 34    | 21  |
| 100   | 22 | 19   | 20 | 19   | 16 | 28    | 38  | 32    | 18  | 22    | 24  | 23    | 19  | 31    | 38  | 35    | 21  |
| 102.5 | 22 | 19   | 20 | 18   | 15 | 25    | 35  | 30    | 18  | 22    | 24  | 22    | 18  | 28    | 38  | 35    | 22  |
| 105   | 22 | 19   | 19 | 17   | 15 | 22    | 32  | 28    | 18  | 22    | 23  | 21    | 17  | 26    | 37  | 34    | 22  |
| 107.5 | 22 | 19   | 19 | 17   | 15 | 20    | 29  | 25    | 17  | 21    | 23  | 20    | 16  | 23    | 35  | 33    | 22  |
| 110   | 22 | 19   | 19 | 16   | 15 | 18    | 25  | 23    | 17  | 20    | 22  | 19    | 15  | 21    | 33  | 31    | 21  |
| 112.5 | 21 | 18   | 20 | 16   | 15 | 17    | 22  | 21    | 16  | 20    | 22  | 18    | 15  | 19    | 30  | 29    | 20  |
| 115   | 20 | 18   | 20 | 15   | 15 | 16    | 20  | 19    | 15  | 19    | 21  | 17    | 14  | 17    | 27  | 27    | 19  |
| 117.5 | 19 | 18   | 20 | 15   | 15 | 15    | 18  | 17    | 15  | 18    | 20  | 16    | 14  | 16    | 24  | 24    | 18  |
| 120   | 18 | 18   | 20 | 15   | 14 | 14    | 17  | 16    | 14  | 17    | 19  | 16    | 14  | 15    | 22  | 22    | 17  |
| 122.5 | 17 | 17   | 20 | 15   | 14 | 14    | 16  | 15    | 14  | 17    | 19  | 15    | 13  | 15    | 20  | 20    | 16  |
| 125   | 16 | 16   | 18 | 15   | 14 | 14    | 15  | 15    | 13  | 16    | 18  | 15    | 13  | 14    | 18  | 18    | 15  |
| 127.5 | 16 | 16   | 17 | 15   | 13 | 13    | 15  | 14    | 13  | 15    | 17  | 15    | 12  | 13    | 17  | 17    | 15  |
| 130   | 15 | 15   | 16 | 14   | 13 | 13    | 14  | 14    | 13  | 14    | 16  | 14    | 12  | 13    | 16  | 16    | 14  |
| 132.5 | 14 | 15   | 15 | 14   | 13 | 13    | 14  | 13    | 12  | 14    | 15  | 14    | 11  | 12    | 15  | 15    | 13  |
| 135   | 14 | 14   | 14 | 13   | 12 | 12    | 13  | 13    | 12  | 13    | 14  | 13    | 11  | 12    | 14  | 14    | 13  |
| 137.5 | 13 | 14   | 14 | 13   | 12 | 12    | 13  | 12    | 12  | 13    | 14  | 13    | 11  | 12    | 14  | 13    | 12  |
| 140   | 13 | 13   | 13 | 13   | 12 | 12    | 13  | 12    | 11  | 12    | 13  | 12    | 10  | 11    | 13  | 13    | 12  |
| 142.5 | 13 | 13   | 13 | 12   | 11 | 11    | 12  | 12    | 11  | 12    | 13  | 12    | 10  | 11    | 13  | 12    | 12  |
| 145   | 13 | 12   | 13 | 12   | 11 | 11    | 12  | 11    | 11  | 12    | 12  | 11    | 10  | 11    | 12  | 12    | 11  |
| 147.5 | 12 | 12   | 12 | 12   | 11 | 11    | 11  | 11    | 11  | 12    | 12  | 11    | 10  | 10    | 12  | 12    | 11  |
| 150   | 12 | 12   | 12 | 11   | 10 | 11    | 11  | 11    | 11  | 11    | 11  | 10    | 10  | 10    | 12  | 11    | 11  |
| 152.5 | 12 | 12   | 11 | 11   | 10 | 10    | 11  | 11    | 11  | 11    | 11  | 10    | 9   | 10    | 11  | 11    | 11  |
| 155   | 12 | 11   | 11 | 10   | 10 | 10    | 10  | 10    | 11  | 11    | 10  | 10    | 9   | 9     | 10  | 11    | 10  |
| 157.5 | 11 | 11   | 10 | 10   | 10 | 10    | 10  | 10    | 10  | 10    | 10  | 9     | 9   | 9     | 10  | 10    | 10  |
| 160   | 11 | 11   | 10 | 10   | 10 | 10    | 10  | 9     | 10  | 10    | 9   | 9     | 9   | 9     | 9   | 10    | 10  |
| 162.5 | 10 | 10   | 10 | 10   | 10 | 10    | 9   | 9     | 9   | 9     | 9   | 9     | 9   | 8     | 9   | 9     | 9   |
| 165   | 10 | 10   | 10 | 10   | 10 | 10    | 9   | 9     | 9   | 9     | 9   | 9     | 9   | 8     | 9   | 9     | 9   |
| 167.5 | 10 | 10   | 9  | 9    | 9  | 9     | 9   | 9     | 9   | 9     | 9   | 9     | 8   | 8     | 8   | 8     | 9   |
| 170   | 9  | 10   | 10 | 9    | 9  | 9     | 9   | 9     | 9   | 9     | 9   | 8     | 8   | 8     | 8   | 8     | 9   |
| 172.5 | 9  | 10   | 10 | 9    | 9  | 9     | 9   | 9     | 9   | 9     | 9   | 8     | 8   | 8     | 8   | 8     | 8   |
| 175   | 10 | 10   | 10 | 9    | 9  | 9     | 9   | 9     | 9   | 9     | 9   | 8     | 8   | 8     | 8   | 9     | 9   |
| 177.5 | 10 | 10   | 10 | 9    | 9  | 9     | 9   | 9     | 9   | 9     | 9   | 9     | 9   | 9     | 9   | 9     | 9   |
| 180   | 9  | 9    | 9  | 9    | 9  | 9     | 9   | 9     | 9   | 9     | 9   | 9     | 9   | 9     | 9   | 9     | 9   |

## Product Test Report - Goniometer Luminaire Evaluation

**Manufacturer:** LightArt A 3FORM COMPANY

**Report Number:** LIGT011-042

**Product Description:** Ribbon Cloud Pendant Grey 18in

**Release Date:** 2/26/2021

### EQUIPMENT

| Item            | Description/use     | Manufacturer    | Model    | Serial #     | Calibration Due |
|-----------------|---------------------|-----------------|----------|--------------|-----------------|
| Spectrometer    | Spectrum            | Orb Optronix    | SP-75    | 4013726      | 7/16/2021       |
| Radiometer      | Power Meter         | Newport         | 2936R    | 18953        | 3/25/2021       |
| Quantum Sensor  | PAR vs Angle        | Gigahertz-Optik | PS-3701  | 44466        | 3/25/2021       |
| AC Power Supply | DUT AC Voltage      | QuadTech        | 31015    | QT3101500128 | Not Applicable  |
| Power Analyzer  | Electrical          | Yokogawa        | WT310E   | C25K10003V   | 8/16/2021       |
| Goniometer      | Angular & IES data  | Orb Optronix    | Gono 7_M | GONO007      | 8/16/2021       |
| Spectral Suite  | Software - Spectrum | Orb Optronix    | SS V3    | 3.1.17.901   | Not Applicable  |
| Spectral Suite  | Software - IES      | Orb Optronix    | SS V3    | 3.0.16.951   | Not Applicable  |

## Product Test Report - Goniometer Luminaire Evaluation

**Manufacturer:**  
**Product Description:**

**Report Number:**  
**Release Date:**

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## Product Test Report - Goniometer Luminaire Evaluation

**Manufacturer:** LightArt A 3FORM COMPANY

**Report Number:** LIGT011-042

**Product Description:** Ribbon Cloud Pendant Grey 18in

**Release Date:** 2/26/2021

### REVISION HISTORY

| REVISION | DATE      | APPROVED | DESCRIPTION OF REVISION                    |
|----------|-----------|----------|--|
| 040      | 2/26/2021 | ACM      | ① ORIGINAL                                 |
| 041      | 3/4/2021  | ACM      | ① Corrected power performance on page 6.   |
| 042      | 3/4/2021  | ACM      | ① Updated device photograph in description |
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END OF REPORT