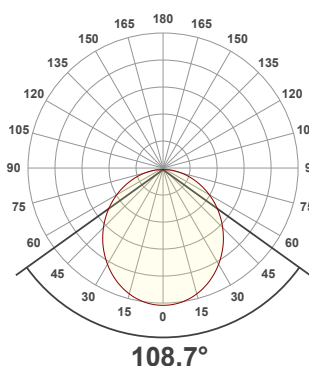


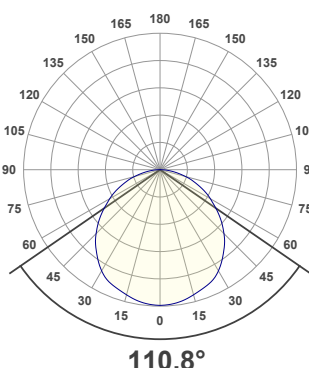
## PRODUCT INFORMATION

|                                 |                                                                                                                                                                                                                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASUREMENT SERIAL NUMBER:      | PH-GVA-2024.Mar.19-2808-VO                                                                                                                                                                                                                                                                      |
| DATE OF MEASUREMENT:            | 3/19/2024                                                                                                                                                                                                                                                                                       |
| MANUFACTURER:                   | GVA LIGHTING, INC.                                                                                                                                                                                                                                                                              |
| PRODUCT NAME:                   | HIGHLIGHTER SERIES, HL-GEN4                                                                                                                                                                                                                                                                     |
| SIZE (width x length x height): | 38 mm x 300 mm x 42 mm                                                                                                                                                                                                                                                                          |
| LOT:                            | FU-5-G/HS-4-K/RO-4-L/U73GY1                                                                                                                                                                                                                                                                     |
| PROFILE LEGEND:                 | DLN – NICHE, DL – CLAMPING,<br>CM – CLEAR MATTE, F – FLAT, R – ROUND,<br>BM – BLACK MATTE, SW – SATIN WHITE, B – BLACK,<br>COVE-F – COVE FIXED, (RGBW) – ALL CHANNELS ON,<br>COVE-OD – COVE OUTDOOR, (R) – RED, (G) – GREEN,<br>INF – INFINITY 380 V DC, ELV – 48 V DC, (B) – BLUE, (W) – WHITE |

## ANGULAR DISTRIBUTION AT C0/180



## ANGULAR DISTRIBUTION AT C90/270



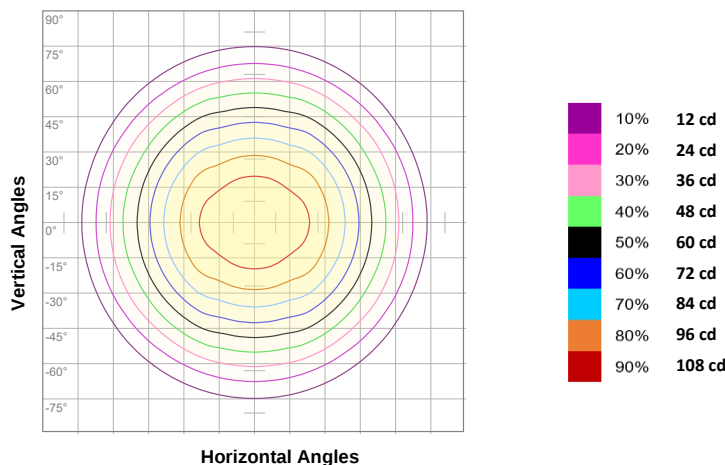
## LIGHT OUTPUT DATA

|                              |         |
|------------------------------|---------|
| TOTAL LUMEN OUTPUT:          | 349 lm  |
| EFFICACY:                    | 71 lm/W |
| PEAK INTENSITY:              | 121 cd  |
| COLOR RENDERING INDEX (CRI): | 82.0    |
| COLOR TEMPERATURE (CCT):     | 3066K   |
| FIDELITY INDEX (TM30Rf):     | 84.5    |
| GAMUT INDEX (TM30Rg):        | 95.8    |

## BEAM OUTPUT DATA

|                              |        |
|------------------------------|--------|
| BEAM ANGLE (FWHM)   C0/180:  | 108.7° |
| BEAM ANGLE (FWHM)   C90/270: | 110.8° |
| FIELD ANGLE (10%)   C0/180:  | 166.2° |
| FIELD ANGLE (10%)   C90/270: | 163.1° |
| NUMBER OF PLANES MEASURED:   | 36     |

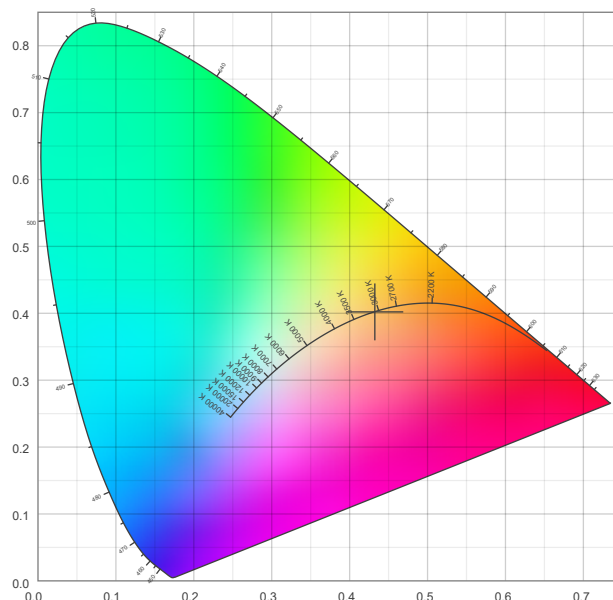
## ISOCANDELA DIAGRAM



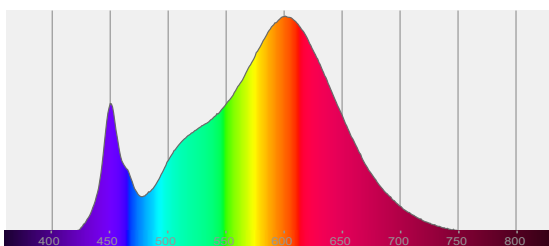
## POWER OUTPUT DATA

|                      |          |
|----------------------|----------|
| INPUT POWER:         | 4.9 W    |
| INPUT VOLTAGE:       | 380 V DC |
| INPUT CURRENT:       | 0.013 A  |
| POWER FACTOR:        | 1.0      |
| OPTICAL POWER:       | 1.04 mW  |
| PEAK WAVELENGTH:     | 601 nm   |
| DOMINANT WAVELENGTH: | 583 nm   |

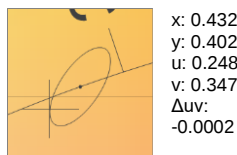
## CIE 1931



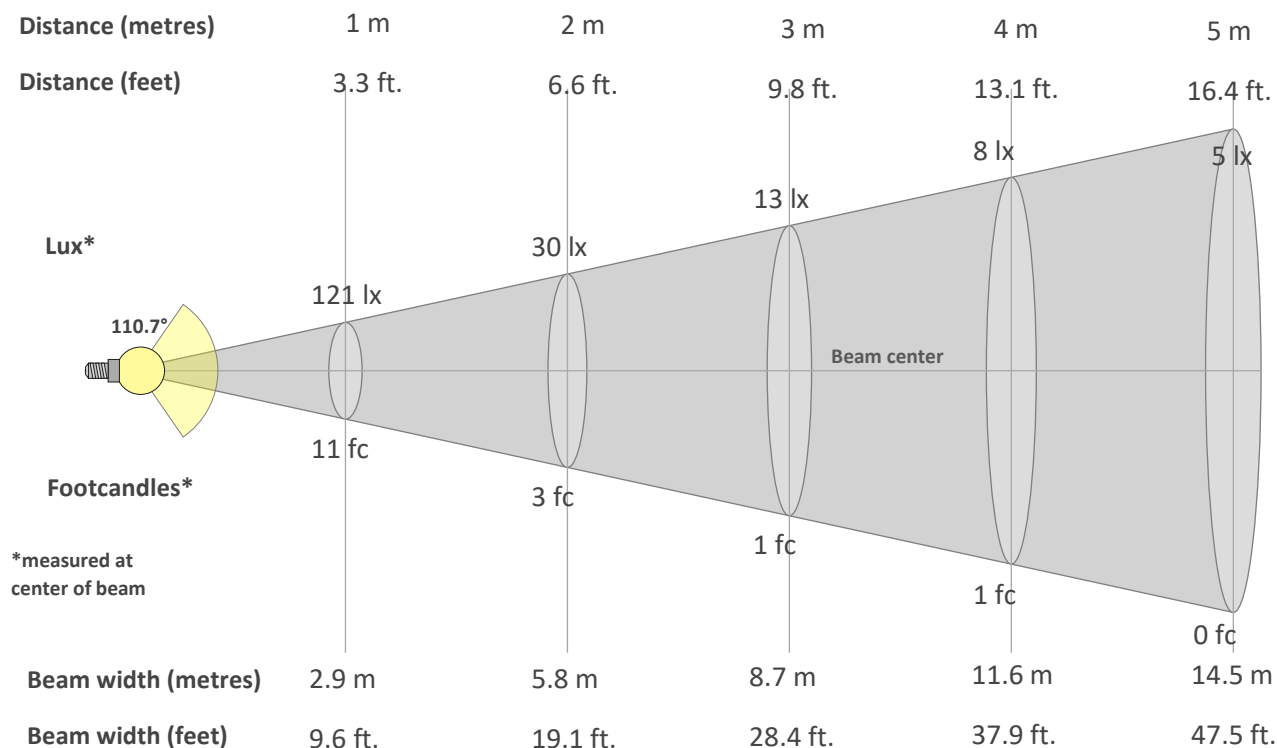
## SPECTRAL DISTRIBUTION



## CIE 1931 ZOOM



### BEAM DETAILS



### Beam intensity from 1-20m

| 1m     | 2m    | 3m    | 4m     | 5m     | 6m     | 7m    | 8m     | 9m     | 10m    | 11m    | 12m    | 13m    | 14m    | 15m    | 16m    | 17m    | 18m    | 19m    | 20m    |
|--------|-------|-------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.3ft  | 6.6ft | 9.8ft | 13.1ft | 16.4ft | 19.7ft | 23ft  | 26.2ft | 29.5ft | 32.8ft | 36.1ft | 39.4ft | 42.7ft | 45.9ft | 49.2ft | 52.5ft | 55.8ft | 59.1ft | 62.3ft | 65.6ft |
| 121lx  | 30lx  | 13lx  | 8lx    | 5lx    | 3lx    | 2lx   | 2lx    | 1lx    | 1lx    | 1lx    | 1lx    | 1lx    | 1lx    | 1lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    |
| 11.2fc | 2.8fc | 1.2fc | 0.7fc  | 0.4fc  | 0.3fc  | 0.2fc | 0.2fc  | 0.1fc  | 0.1fc  | 0.1fc  | 0.1fc  | 0.1fc  | 0.1fc  | 0fc    | 0fc    | 0fc    | 0fc    | 0fc    | 0fc    |

### Intensity in 0° c-plane

| 0°   | 5°   | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 121  | 120  | 118 | 115 | 110 | 105 | 99  | 92  | 84  | 76  | 68  | 59  | 50  | 42  | 33  | 24  | 17  | 10  | 2   | 2   |
| 100% | 100% | 98% | 95% | 92% | 87% | 82% | 76% | 70% | 63% | 56% | 49% | 42% | 34% | 27% | 20% | 14% | 8%  | 2%  | 2%  |

### Intensity in 90° c-plane

| 0°   | 5°   | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 121  | 120  | 118 | 115 | 112 | 109 | 104 | 97  | 89  | 80  | 71  | 61  | 52  | 42  | 33  | 24  | 15  | 7   | 1   | 0   |
| 100% | 100% | 98% | 96% | 93% | 91% | 86% | 80% | 74% | 67% | 59% | 51% | 43% | 35% | 27% | 20% | 12% | 6%  | 1%  | 0%  |

### Intensity in 180° c-plane

| 0°   | 5°   | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 121  | 120  | 118 | 115 | 110 | 105 | 99  | 92  | 84  | 76  | 68  | 59  | 50  | 42  | 33  | 24  | 17  | 10  | 2   | 2   |
| 100% | 100% | 98% | 95% | 92% | 87% | 82% | 76% | 70% | 63% | 56% | 49% | 42% | 34% | 27% | 20% | 14% | 8%  | 2%  | 2%  |

### Intensity in 270° c-plane

| 0°   | 5°   | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 121  | 120  | 118 | 115 | 112 | 109 | 104 | 97  | 89  | 80  | 71  | 61  | 52  | 42  | 33  | 24  | 15  | 7   | 1   | 0   |
| 100% | 100% | 98% | 96% | 93% | 91% | 86% | 80% | 74% | 67% | 59% | 51% | 43% | 35% | 27% | 20% | 12% | 6%  | 1%  | 0%  |