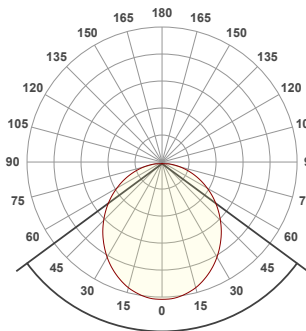




## PRODUCT INFORMATION

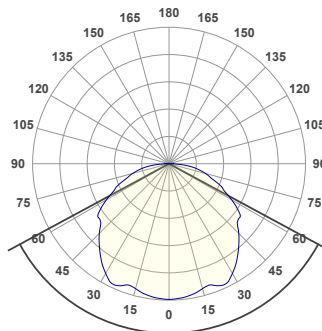
|                                 |                                                                                                                                                                                                                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MEASUREMENT SERIAL NUMBER:      | PH-GVA-2024.Mar.20-2820-VO                                                                                                                                                                                                                                                                      |
| DATE OF MEASUREMENT:            | 3/20/2024                                                                                                                                                                                                                                                                                       |
| MANUFACTURER:                   | GVA LIGHTING, INC.                                                                                                                                                                                                                                                                              |
| PRODUCT NAME:                   | HIGHLIGHTER SERIES, HL-GEN4                                                                                                                                                                                                                                                                     |
| SIZE (width x length x height): | 38 mm x 300 mm x 60 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



107.2°

## ANGULAR DISTRIBUTION AT C90/270



123.2°

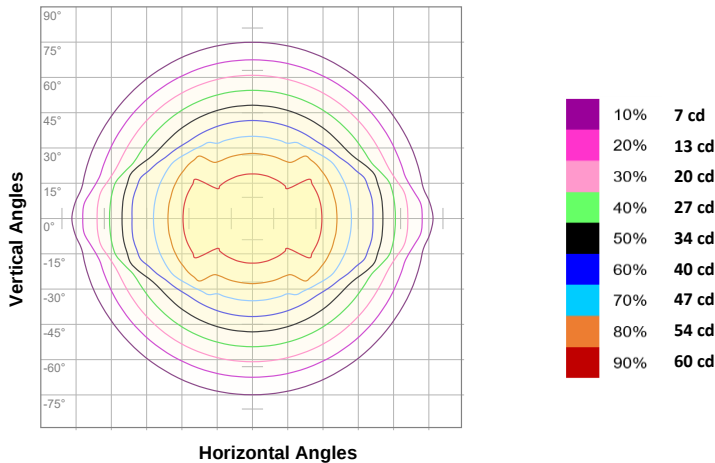
## LIGHT OUTPUT DATA

|                              |         |
|------------------------------|---------|
| TOTAL LUMEN OUTPUT:          | 201 lm  |
| EFFICACY:                    | 41 lm/W |
| PEAK INTENSITY:              | 67.2 cd |
| COLOR RENDERING INDEX (CRI): | 0.0     |
| COLOR TEMPERATURE (CCT):     | 0K      |
| FIDELITY INDEX (TM30Rf):     | 0.0     |
| GAMUT INDEX (TM30Rg):        | 0.0     |

## BEAM OUTPUT DATA

|                              |        |
|------------------------------|--------|
| BEAM ANGLE (FWHM)   C0/180:  | 107.2° |
| BEAM ANGLE (FWHM)   C90/270: | 123.2° |
| FIELD ANGLE (10%)   C0/180:  | 166.6° |
| FIELD ANGLE (10%)   C90/270: | 170.6° |
| NUMBER OF PLANES MEASURED:   | 36     |

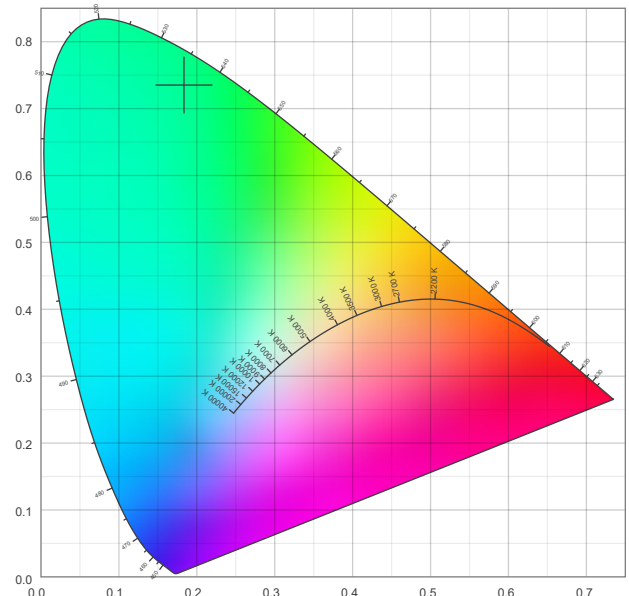
## ISOCANDELA DIAGRAM



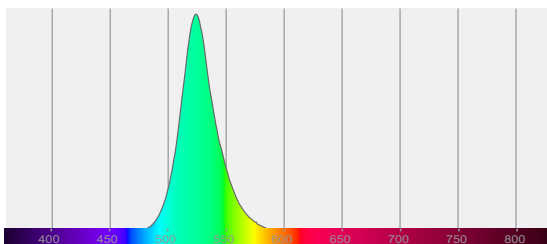
## POWER OUTPUT DATA

|                      |          |
|----------------------|----------|
| INPUT POWER:         | 4.9 W    |
| INPUT VOLTAGE:       | 380 V DC |
| INPUT CURRENT:       | 0.013 A  |
| POWER FACTOR:        | 1.0      |
| OPTICAL POWER:       | 0.389 mW |
| PEAK WAVELENGTH:     | 524 nm   |
| DOMINANT WAVELENGTH: | 531 nm   |

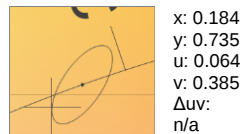
## CIE 1931



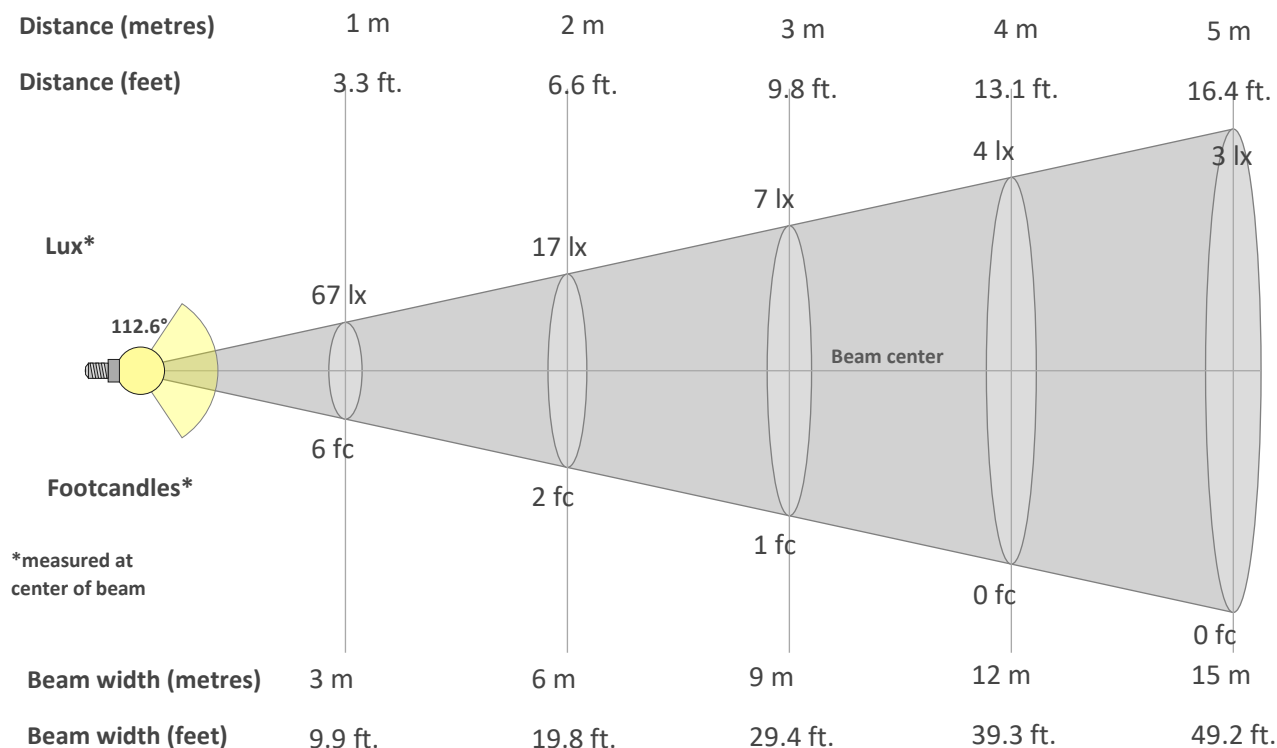
## SPECTRAL DISTRIBUTION



## 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 |
| 67lx  | 17lx  | 7lx   | 4lx    | 3lx    | 2lx    | 1lx   | 1lx    | 1lx    | 1lx    | 1lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    |
| 6.2fc | 1.6fc | 0.7fc | 0.4fc  | 0.2fc  | 0.2fc  | 0.1fc | 0.1fc  | 0.1fc  | 0.1fc  | 0.1fc  | 0fc    | 0fc    | 0fc    | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 67.1 | 66.8 | 65.6 | 63.7 | 61.1 | 57.9 | 54.3 | 50.2 | 46.0 | 41.5 | 36.9 | 32.2 | 27.4 | 22.6 | 17.9 | 13.4 | 9.2 | 5.5 | 1.7 | 1.6 |
| 100% | 100% | 98%  | 95%  | 91%  | 86%  | 81%  | 75%  | 69%  | 62%  | 55%  | 48%  | 41%  | 34%  | 27%  | 20%  | 14% | 8%  | 3%  | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 67.1 | 66.7 | 65.7 | 64.1 | 64.1 | 65.6 | 62.7 | 58.4 | 53.6 | 48.8 | 44.4 | 42.4 | 35.8 | 29.5 | 23.5 | 18.6 | 13.6 | 7.2 | 0.4 | 0.3 |
| 100% | 99%  | 98%  | 95%  | 95%  | 98%  | 93%  | 87%  | 80%  | 73%  | 66%  | 63%  | 53%  | 44%  | 35%  | 28%  | 20%  | 11% | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 67.1 | 66.8 | 65.6 | 63.7 | 61.1 | 57.9 | 54.3 | 50.2 | 46.0 | 41.5 | 36.9 | 32.2 | 27.4 | 22.6 | 17.9 | 13.4 | 9.2 | 5.5 | 1.7 | 1.6 |
| 100% | 100% | 98%  | 95%  | 91%  | 86%  | 81%  | 75%  | 69%  | 62%  | 55%  | 48%  | 41%  | 34%  | 27%  | 20%  | 14% | 8%  | 3%  | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 67.1 | 66.7 | 65.7 | 64.1 | 64.1 | 65.6 | 62.7 | 58.4 | 53.6 | 48.8 | 44.4 | 42.4 | 35.8 | 29.5 | 23.5 | 18.6 | 13.6 | 7.2 | 0.4 | 0.3 |
| 100% | 99%  | 98%  | 95%  | 95%  | 98%  | 93%  | 87%  | 80%  | 73%  | 66%  | 63%  | 53%  | 44%  | 35%  | 28%  | 20%  | 11% | 1%  | 0%  |