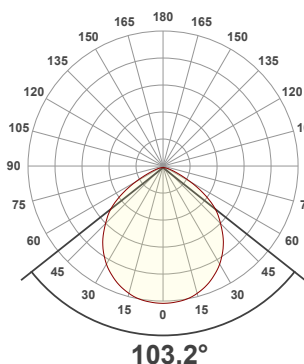


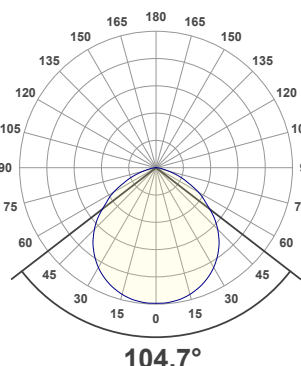
### PRODUCT INFORMATION

|                                         |                              |
|-----------------------------------------|------------------------------|
| MEASUREMENT SERIAL NUMBER:              | PH-GVA-2023.Dec.19-2209-VO   |
| DATE OF MEASUREMENT:                    | 12/19/2023                   |
| MANUFACTURER:                           | GVA LIGHTING, INC.           |
| PRODUCT NAME:                           | HIGHLIGHTER SERIES, HL-GEN4  |
| SIZE (width x length x height):         | 23.3 mm x 300 mm x 42 mm     |
| LOT:                                    | GP-5-G/HR-4-L/RO-4-L/U73GY1  |
| PROFILE LEGEND:                         | DLN – NICHE, DL – CLAMPING,  |
| CM – CLEAR MATTE,                       | F – FLAT, R – ROUND,         |
| BM – BLACK MATTE,                       | SW – SATIN WHITE, B – BLACK, |
| COVE-F – COVE FIXED,                    | (RGBW) – ALL CHANNELS ON,    |
| COVE-OD – COVE OUTDOOR,                 | (R) – RED, (G) – GREEN,      |
| INF – INFINITY 380 V DC. ELV – 48 V DC. | (B) – BLUE, (W) – WHITE      |

### ANGULAR DISTRIBUTION AT C0/180



### ANGULAR DISTRIBUTION AT C90/270



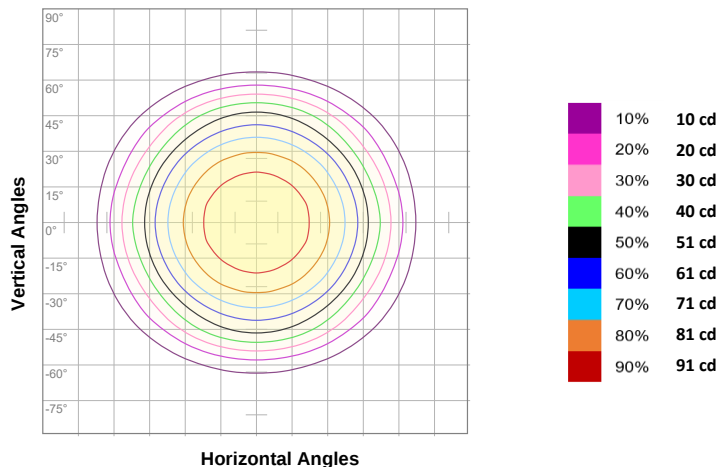
### LIGHT OUTPUT DATA

|                              |         |
|------------------------------|---------|
| TOTAL LUMEN OUTPUT:          | 250 lm  |
| EFFICACY:                    | 53 lm/W |
| PEAK INTENSITY:              | 101 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:  | 103.2° |
| BEAM ANGLE (FWHM)   C90/270: | 104.7° |
| FIELD ANGLE (10%)   C0/180:  | 141°   |
| FIELD ANGLE (10%)   C90/270: | 149.2° |
| NUMBER OF PLANES MEASURED:   | 18     |

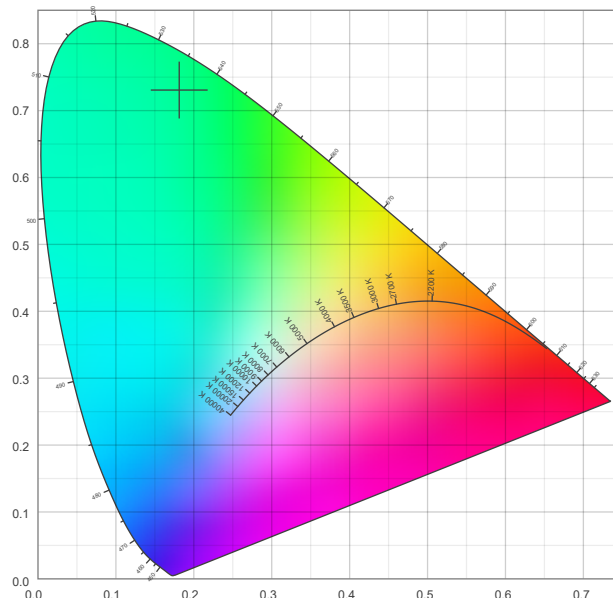
### ISOCANDELA DIAGRAM



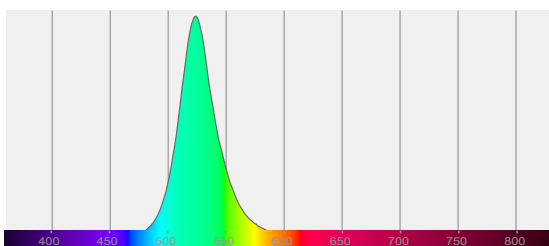
### POWER OUTPUT DATA

|                      |          |
|----------------------|----------|
| INPUT POWER:         | 4.7 W    |
| INPUT VOLTAGE:       | 380 V DC |
| INPUT CURRENT:       | 0.012 A  |
| POWER FACTOR:        | 1.0      |
| OPTICAL POWER:       | 0.492 mW |
| PEAK WAVELENGTH:     | 524 nm   |
| DOMINANT WAVELENGTH: | 530 nm   |

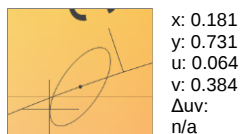
### CIE 1931



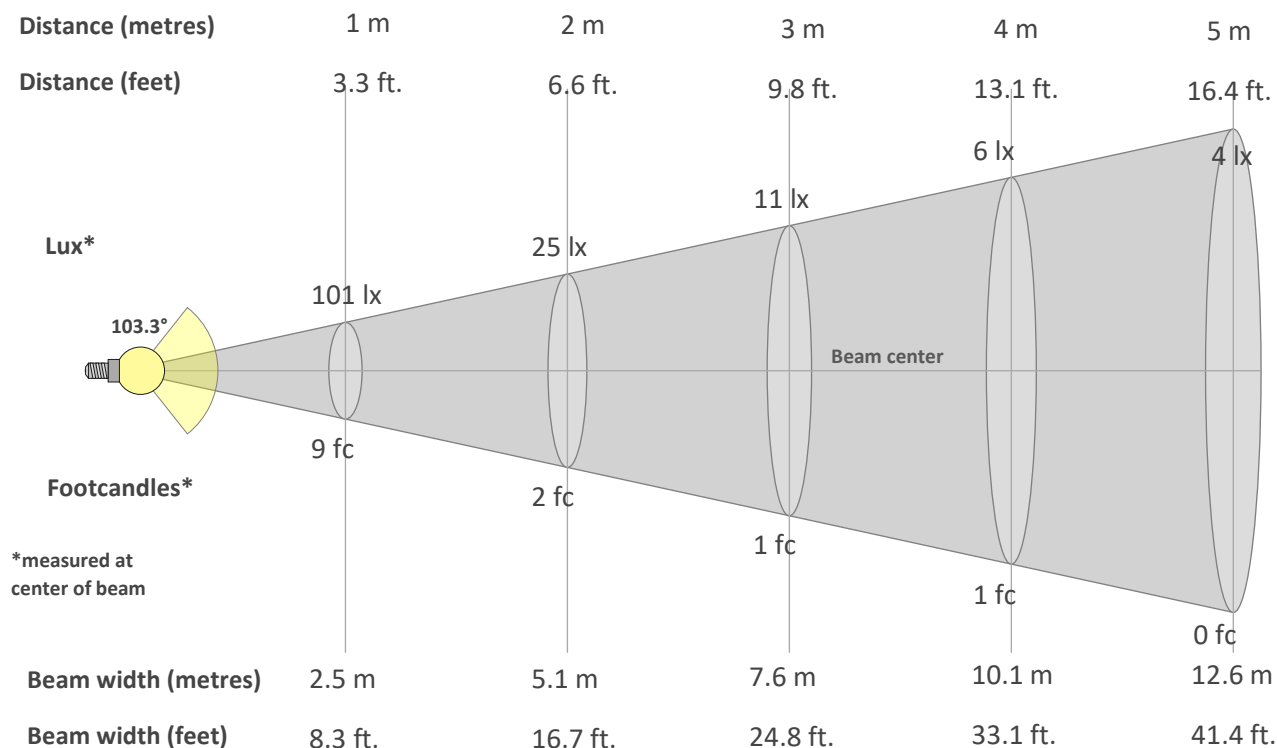
### SPECTRAL DISTRIBUTION



### 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 |
| 101lx | 25lx  | 11lx  | 6lx    | 4lx    | 3lx    | 2lx   | 2lx    | 1lx    | 1lx    | 1lx    | 1lx    | 1lx    | 1lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    | 0lx    |
| 9.4fc | 2.3fc | 1fc   | 0.6fc  | 0.4fc  | 0.3fc  | 0.2fc | 0.1fc  | 0.1fc  | 0.1fc  | 0.1fc  | 0.1fc  | 0.1fc  | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 101  | 101  | 100 | 97  | 94  | 89  | 84  | 78  | 71  | 62  | 54  | 43  | 31  | 19  | 11  | 6   | 4   | 2   | 0   | 0   |
| 100% | 100% | 99% | 96% | 93% | 89% | 83% | 77% | 70% | 61% | 53% | 43% | 30% | 19% | 11% | 6%  | 4%  | 2%  | 0%  | 0%  |

## 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 101  | 101  | 100 | 98  | 95  | 91  | 86  | 80  | 73  | 65  | 56  | 45  | 36  | 26  | 18  | 10  | 4   | 2   | 0   | 0   |
| 100% | 100% | 99% | 97% | 94% | 90% | 85% | 79% | 72% | 64% | 55% | 45% | 36% | 26% | 17% | 9%  | 4%  | 2%  | 0%  | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 101  | 101  | 100 | 97  | 94  | 89  | 84  | 78  | 71  | 62  | 54  | 43  | 31  | 19  | 11  | 6   | 4   | 2   | 0   | 0   |
| 100% | 100% | 99% | 96% | 93% | 89% | 83% | 77% | 70% | 61% | 53% | 43% | 30% | 19% | 11% | 6%  | 4%  | 2%  | 0%  | 0%  |

## 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 101  | 101  | 100 | 98  | 95  | 91  | 86  | 80  | 73  | 65  | 56  | 45  | 36  | 26  | 18  | 10  | 4   | 2   | 0   | 0   |
| 100% | 100% | 99% | 97% | 94% | 90% | 85% | 79% | 72% | 64% | 55% | 45% | 36% | 26% | 17% | 9%  | 4%  | 2%  | 0%  | 0%  |