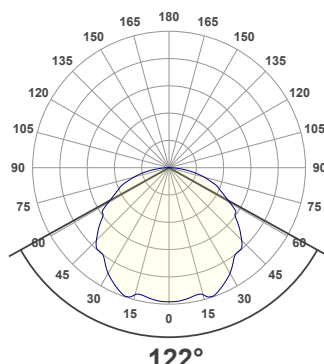
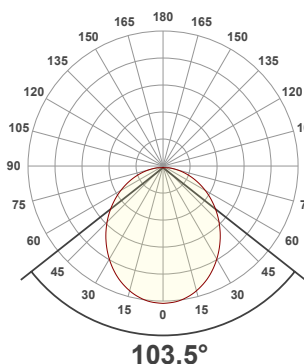


PRODUCT INFORMATION

MEASUREMENT SERIAL NUMBER:	PH-GVA-2023.Dec.19-2227-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 60 mm
LOT:	GP-5-G/HR-4-L/RO-4-L/U73GY1
PROFILE LEGEND:	DLN – NICHE, DL – CLAMPING, CM – CLEAR MATTE, BM – BLACK MATTE, COVE-F – COVE FIXED, COVE-OD – COVE OUTDOOR, INF – INFINITY 380 V DC. ELV – 48 V DC.
	DLN – NICHE, DL – CLAMPING, F – FLAT, R – ROUND, SW – SATIN WHITE, B – BLACK, (RGBW) – ALL CHANNELS ON, (R) – RED, (G) – GREEN, (B) – BLUE, (W) – WHITE

ANGULAR DISTRIBUTION AT C0/180

ANGULAR DISTRIBUTION AT C90/270



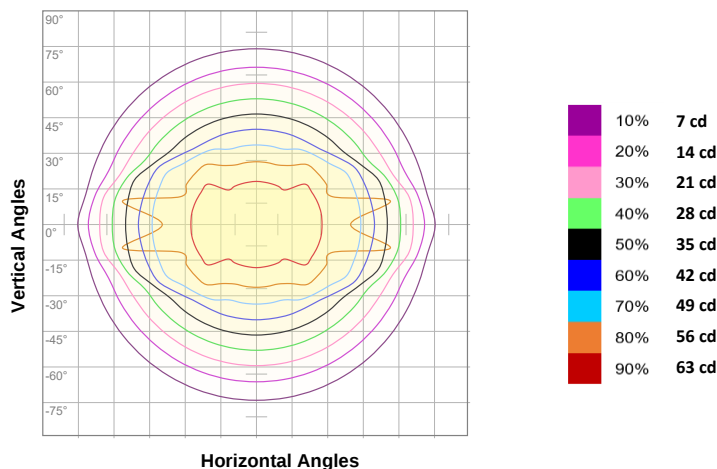
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT:	204 lm
EFFICACY:	44 lm/W
PEAK INTENSITY:	70.9 cd
COLOR RENDERING INDEX (CRI):	82.2
COLOR TEMPERATURE (CCT):	3138K
FIDELITY INDEX (TM30Rf):	84.3
GAMUT INDEX (TM30Rg):	96.0

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) C0/180:	103.5°
BEAM ANGLE (FWHM) C90/270:	122°
FIELD ANGLE (10%) C0/180:	164.5°
FIELD ANGLE (10%) C90/270:	167.1°
NUMBER OF PLANES MEASURED:	18

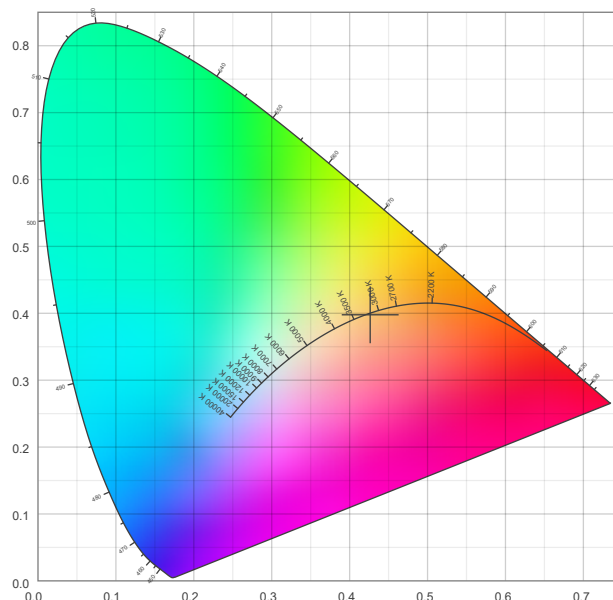
ISOCANDELA DIAGRAM



POWER OUTPUT DATA

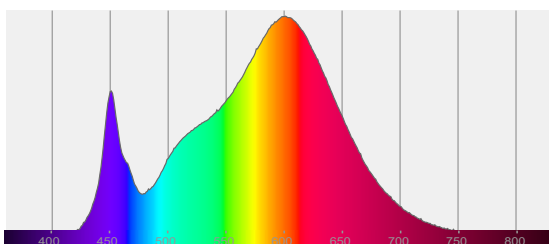
INPUT POWER:	4.7 W
INPUT VOLTAGE:	380 V DC
INPUT CURRENT:	0.012 A
POWER FACTOR:	1.0
OPTICAL POWER:	0.613 mW
PEAK WAVELENGTH:	601 nm
DOMINANT WAVELENGTH:	584 nm

CIE 1931



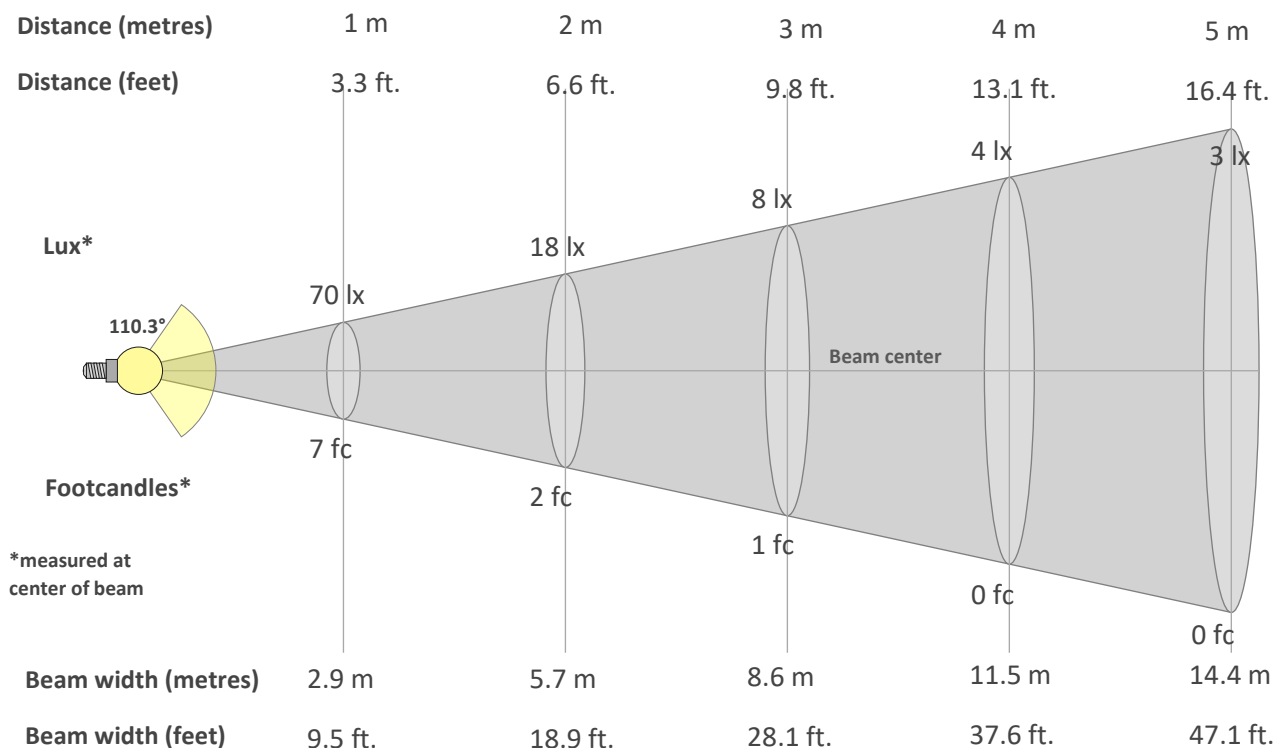
SPECTRAL DISTRIBUTION

CIE 1931 ZOOM



x: 0.426
y: 0.398
u: 0.246
v: 0.345
 Δuv :
-0.0010

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
70lx	18lx	8lx	4lx	3lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
6.5fc	1.6fc	0.7fc	0.4fc	0.3fc	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°
70.2	69.7	68.4	66.2	63.3	59.7	55.6	51.2	46.5	41.7	36.8	31.8	26.9	22.1	17.3	12.8	8.7	5.1	1.4	1.3
100%	99%	97%	94%	90%	85%	79%	73%	66%	59%	52%	45%	38%	31%	25%	18%	12%	7%	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°
70.2	69.8	68.6	68.9	70.5	67.4	63.7	59.0	56.8	53.7	47.7	42.2	37.0	30.6	25.6	18.9	12.2	5.3	1.5	1.4
100%	99%	98%	98%	101%	96%	91%	84%	81%	77%	68%	60%	53%	44%	37%	27%	17%	8%	2%	2%

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°
70.2	69.7	68.4	66.2	63.3	59.7	55.6	51.2	46.5	41.7	36.8	31.8	26.9	22.1	17.3	12.8	8.7	5.1	1.4	1.3
100%	99%	97%	94%	90%	85%	79%	73%	66%	59%	52%	45%	38%	31%	25%	18%	12%	7%	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°
70.2	69.8	68.6	68.9	70.5	67.4	63.7	59.0	56.8	53.7	47.7	42.2	37.0	30.6	25.6	18.9	12.2	5.3	1.5	1.4
100%	99%	98%	98%	101%	96%	91%	84%	81%	77%	68%	60%	53%	44%	37%	27%	17%	8%	2%	2%