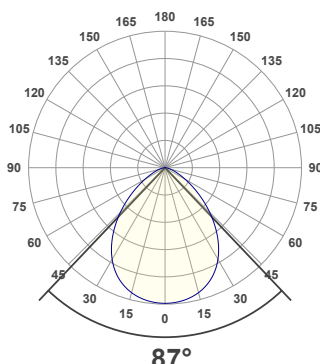
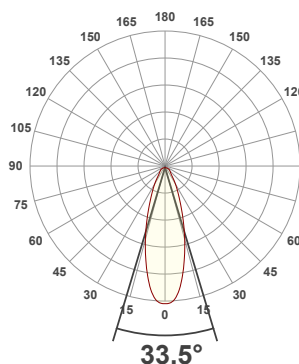


PRODUCT INFORMATION

MEASUREMENT SERIAL NUMBER:	PH-GVA-2023.Dec.21-2263-VO
DATE OF MEASUREMENT:	12/21/2023
MANUFACTURER:	GVA LIGHTING, INC.
PRODUCT NAME:	HIGHLIGHTER SERIES, HL-GEN4
SIZE (width x length x height):	23.3 mm x 298 mm x 35.5 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



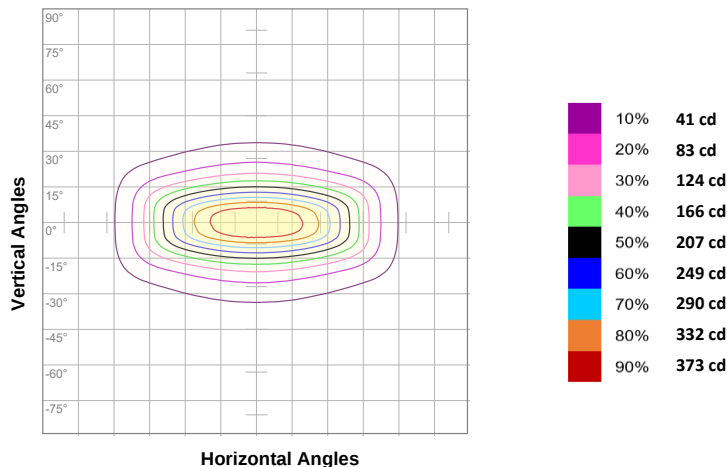
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT:	444 lm
EFFICACY:	95 lm/W
PEAK INTENSITY:	416 cd
COLOR RENDERING INDEX (CRI):	82.0
COLOR TEMPERATURE (CCT):	3128K
FIDELITY INDEX (TM30Rf):	84.4
GAMUT INDEX (TM30Rg):	95.8

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) C0/180:	33.5°
BEAM ANGLE (FWHM) C90/270:	87°
FIELD ANGLE (10%) C0/180:	74.9°
FIELD ANGLE (10%) C90/270:	132.5°
NUMBER OF PLANES MEASURED:	36

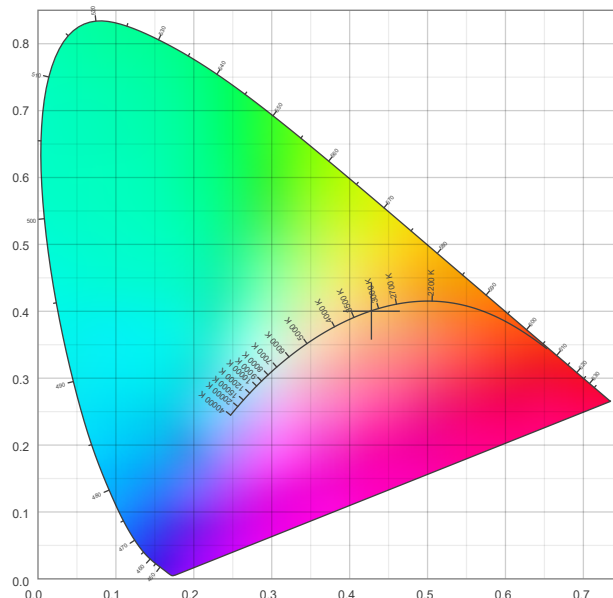
ISOCANDELA DIAGRAM



POWER OUTPUT DATA

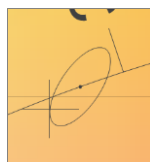
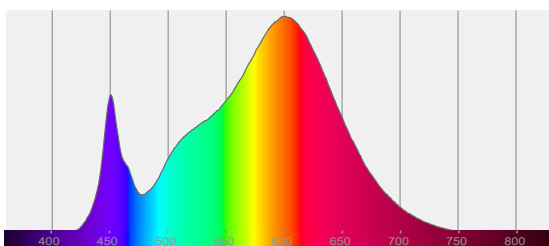
INPUT POWER:	4.7 W
INPUT VOLTAGE:	380 V DC
INPUT CURRENT:	0.012 A
POWER FACTOR:	1.0
OPTICAL POWER:	1.32 mW
PEAK WAVELENGTH:	601 nm
DOMINANT WAVELENGTH:	583 nm

CIE 1931



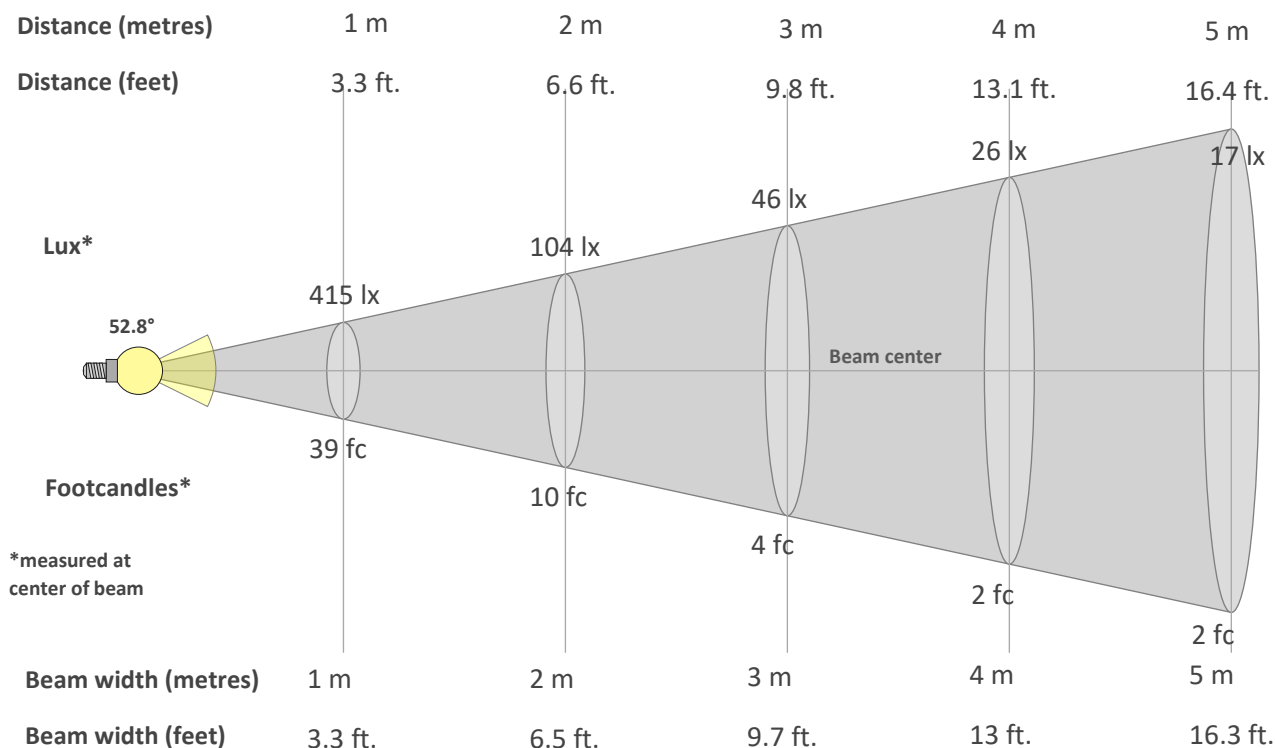
SPECTRAL DISTRIBUTION

CIE 1931 ZOOM



x: 0.428
y: 0.400
u: 0.246
v: 0.346
 Δuv : -0.0003

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
415lx	104lx	46lx	26lx	17lx	12lx	8lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx
38.5fc	9.6fc	4.3fc	2.4fc	1.5fc	1.1fc	0.8fc	0.6fc	0.5fc	0.4fc	0.3fc	0.3fc	0.2fc	0.2fc	0.2fc	0.2fc	0.1fc	0.1fc	0.1fc	0.1fc

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°
415	395	321	235	160	106	73	50	34	26	22	19	16	15	12	9	6	2	0	0
100%	95%	78%	57%	39%	26%	18%	12%	8%	6%	5%	5%	4%	4%	3%	2%	1%	0%	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°
415	414	408	397	380	356	324	285	241	194	148	106	72	47	29	18	9	3	0	0
100%	100%	98%	96%	92%	86%	78%	69%	58%	47%	36%	26%	17%	11%	7%	4%	2%	1%	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°
415	395	321	235	160	106	73	50	34	26	22	19	16	15	12	9	6	2	0	0
100%	95%	78%	57%	39%	26%	18%	12%	8%	6%	5%	5%	4%	4%	3%	2%	1%	0%	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°
415	414	408	397	380	356	324	285	241	194	148	106	72	47	29	18	9	3	0	0
100%	100%	98%	96%	92%	86%	78%	69%	58%	47%	36%	26%	17%	11%	7%	4%	2%	1%	0%	0%