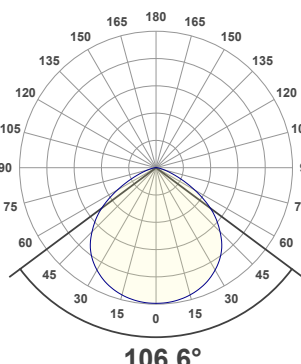
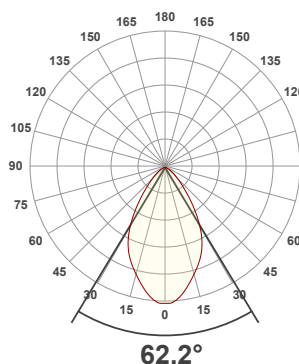


PRODUCT INFORMATION

MEASUREMENT SERIAL NUMBER:	PH-GVA-2023.Dec.20-2253-VO
DATE OF MEASUREMENT:	12/20/2023
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, 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



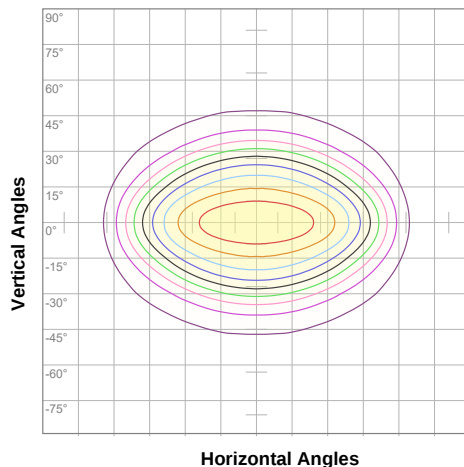
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT:	409 lm
EFFICACY:	87 lm/W
PEAK INTENSITY:	251 cd
COLOR RENDERING INDEX (CRI):	82.3
COLOR TEMPERATURE (CCT):	3129K
FIDELITY INDEX (TM30Rf):	84.6
GAMUT INDEX (TM30Rg):	95.8

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) C0/180:	62.2°
BEAM ANGLE (FWHM) C90/270:	106.6°
FIELD ANGLE (10%) C0/180:	104.8°
FIELD ANGLE (10%) C90/270:	143.4°
NUMBER OF PLANES MEASURED:	36

ISOCANDELA DIAGRAM

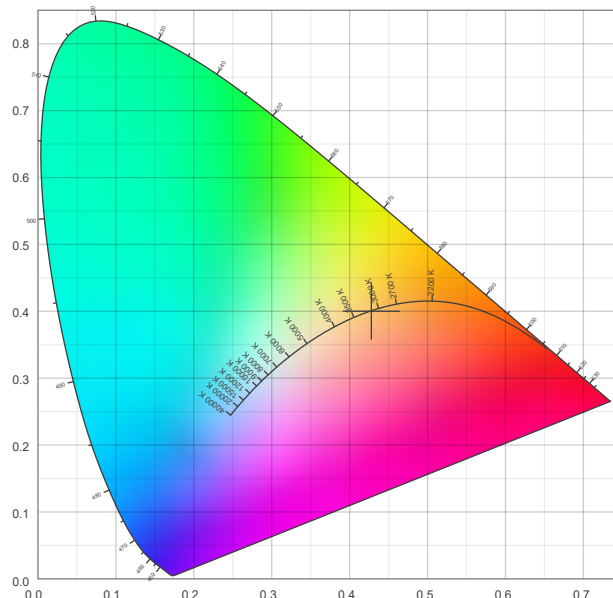


10%	25 cd
20%	50 cd
30%	75 cd
40%	100 cd
50%	125 cd
60%	150 cd
70%	175 cd
80%	200 cd
90%	225 cd

POWER OUTPUT DATA

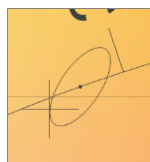
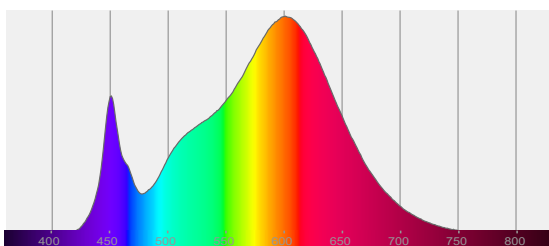
INPUT POWER:	4.7 W
INPUT VOLTAGE:	380 V DC
INPUT CURRENT:	0.012 A
POWER FACTOR:	1.0
OPTICAL POWER:	1.23 mW
PEAK WAVELENGTH:	601 nm
DOMINANT WAVELENGTH:	583 nm

CIE 1931



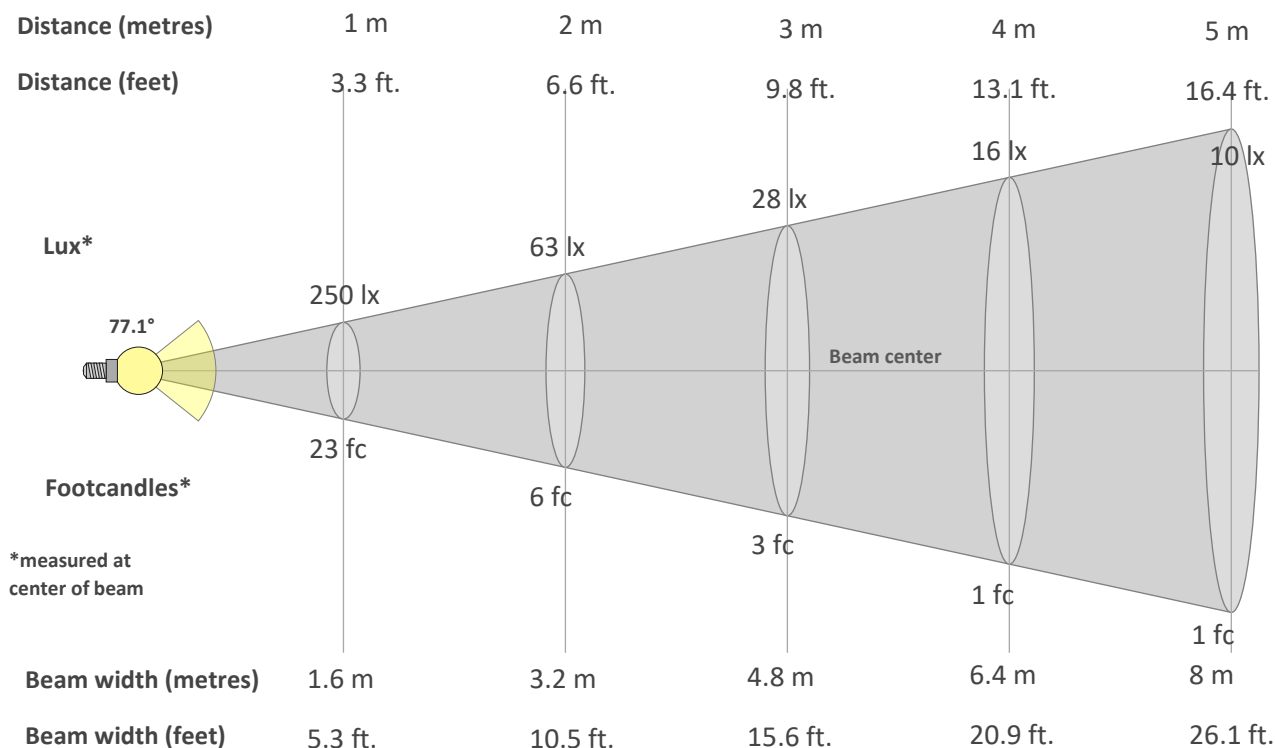
SPECTRAL DISTRIBUTION

CIE 1931 ZOOM



x: 0.428
y: 0.400
u: 0.246
v: 0.346
 Δu :
 Δv : -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
250lx	63lx	28lx	16lx	10lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx
23.3fc	5.8fc	2.6fc	1.5fc	0.9fc	0.6fc	0.5fc	0.4fc	0.3fc	0.2fc	0.2fc	0.2fc	0.1fc	0.1fc	0.1fc	0.1fc	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°
250	243	225	204	184	161	132	97	66	43	29	21	15	10	7	4	2	1	0	0
100%	97%	90%	82%	74%	64%	53%	39%	26%	17%	12%	8%	6%	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°
250	250	247	243	237	229	218	205	189	167	143	115	83	53	31	16	8	3	0	0
100%	100%	99%	97%	95%	91%	87%	82%	75%	67%	57%	46%	33%	21%	12%	6%	3%	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°
250	243	225	204	184	161	132	97	66	43	29	21	15	10	7	4	2	1	0	0
100%	97%	90%	82%	74%	64%	53%	39%	26%	17%	12%	8%	6%	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°
250	250	247	243	237	229	218	205	189	167	143	115	83	53	31	16	8	3	0	0
100%	100%	99%	97%	95%	91%	87%	82%	75%	67%	57%	46%	33%	21%	12%	6%	3%	1%	0%	0%