

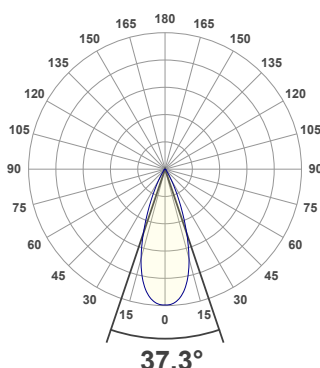
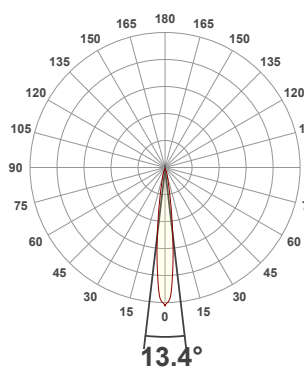


PRODUCT INFORMATION

MEASUREMENT SERIAL NUMBER:	PH-GVA-2024.Feb.22-2691-VO
DATE OF MEASUREMENT:	2/22/2024
MANUFACTURER:	GVA LIGHTING, INC.
PRODUCT NAME:	STR10 ARCHITECTURAL
SIZE (width x length x height):	49 mm x 300 mm x 61 mm
LOT:	sm303D300L2R8000
PROFILE LEGEND:	PIXEL RESOLUTION: R150/200/300 – PIXEL SIZE 150/200/300 mm
CM – CLEAR MATTE, BM – BLACK MATTE, CU – CUSTOM COLOR	VOLTAGE LEGEND: INF – INFINITY 380 V DC, ELV – 48 V DC
INTERNAL ACCESSORIES: NL – NO LOUVER, ML – MICRO LOUVER	

ANGULAR DISTRIBUTION AT C0/180

ANGULAR DISTRIBUTION AT C90/270



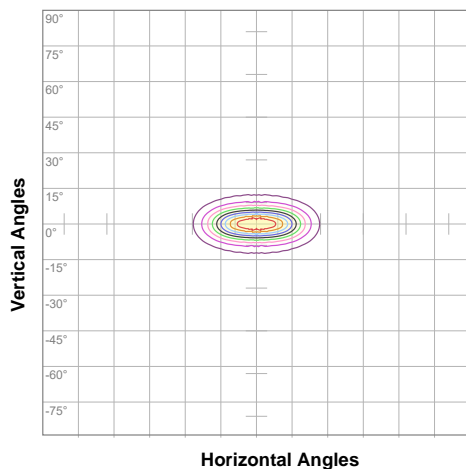
LIGHT OUTPUT DATA

TOTAL LUMEN OUTPUT:	1029 lm
EFFICACY:	52 lm/W
PEAK INTENSITY:	5294 cd
COLOR RENDERING INDEX (CRI):	84.4
COLOR TEMPERATURE (CCT):	3053K
FIDELITY INDEX (TM30Rf):	84.6
GAMUT INDEX (TM30Rg):	95.7

BEAM OUTPUT DATA

BEAM ANGLE (FWHM) C0/180:	13.4°
BEAM ANGLE (FWHM) C90/270:	37.3°
FIELD ANGLE (10%) C0/180:	28.2°
FIELD ANGLE (10%) C90/270:	59.5°
NUMBER OF PLANES MEASURED:	36

ISOCANDELA DIAGRAM

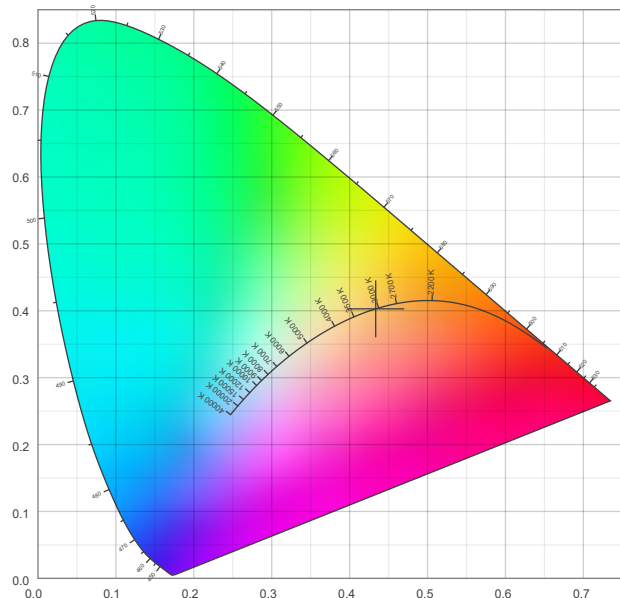


10%	525 cd
20%	1050 cd
30%	1576 cd
40%	2101 cd
50%	2626 cd
60%	3151 cd
70%	3677 cd
80%	4202 cd
90%	4727 cd

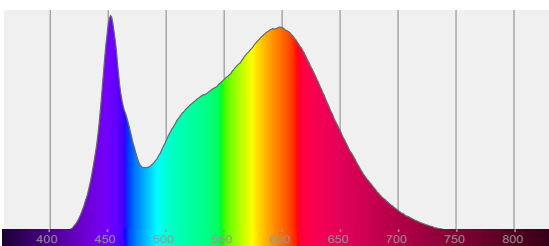
POWER OUTPUT DATA

INPUT POWER:	19.9 W
INPUT VOLTAGE:	380 V DC
INPUT CURRENT:	0.052 A
POWER FACTOR:	1.0
OPTICAL POWER:	3.14 mW
PEAK WAVELENGTH:	452 nm
DOMINANT WAVELENGTH:	583 nm

CIE 1931



SPECTRAL DISTRIBUTION



CIE 1931 ZOOM

x:	0.433
y:	0.403
u:	0.249
v:	0.347
Δuv:	-0.0025

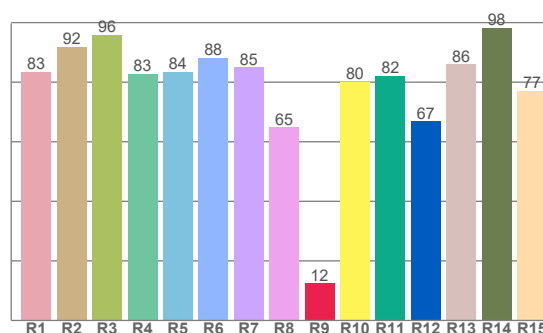
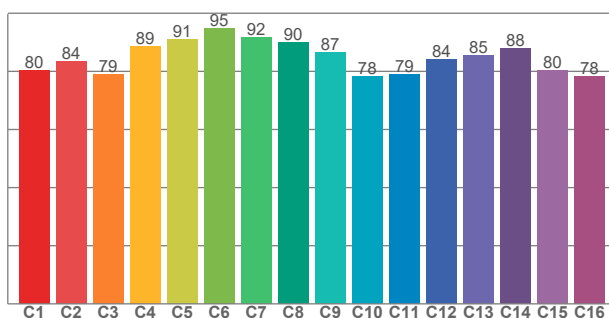
ZONAL LUMEN SUMMARY

0°-10° 344 lm	10°-20° 391 lm	20°-30° 180 lm	30°-40° 67.7 lm	40°-50° 30.5 lm	50°-60° 12.4 lm	60°-70° 3.29 lm	70°-80° 0.123 lm	80°-90° 0.001 lm
90°-100° 0.000 lm	100°-110° 0.000 lm	110°-120° 0.000 lm	120°-130° 0.000 lm	130°-140° 0.000 lm	140°-150° 0.000 lm	150°-160° 0.000 lm	160°-170° 0.000 lm	170°-180° 0.000 lm

COLOR DETAILS

TM30: 84.6

CRI: 84.4 (R1-R8)



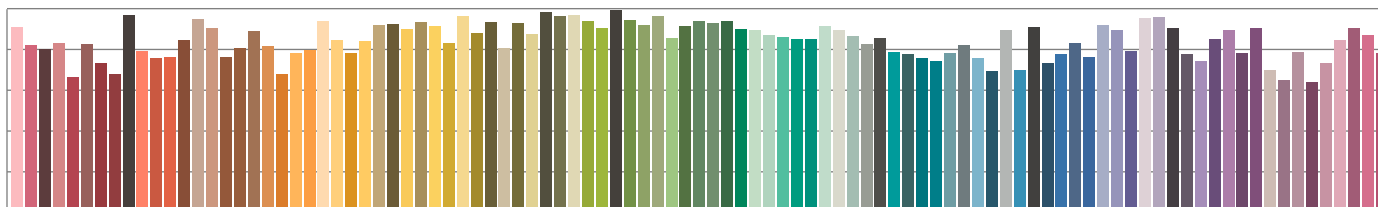
TM30 C values, 16 binned values out of total of 99 C values

CRI R values, only R1-R8 are used to calculate final CRI value

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.4	83.6	79.1	88.6	90.9	94.7	91.6	89.9	86.6	78.3	79.1	84.2	85.4	87.9	80.4	78.2

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
83.5	91.9	95.8	82.8	83.6	88.1	84.9	64.8	12.5	80.1	82.1	66.8	86.0	98.3	77.1

TM30 COLOR EVALUATION SAMPLE



TM30 DETAILS

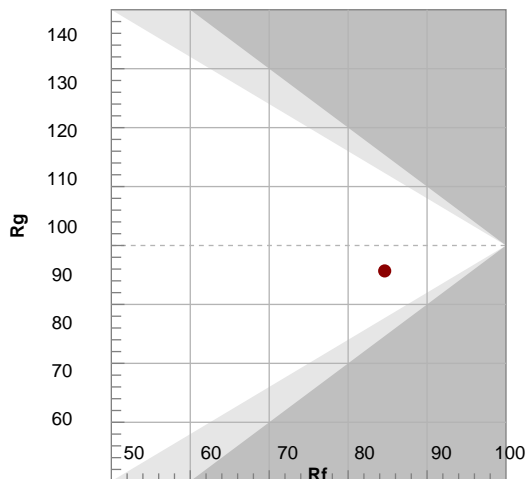
FIDELITY INDEX

Rf 84.6

GAMUT INDEX

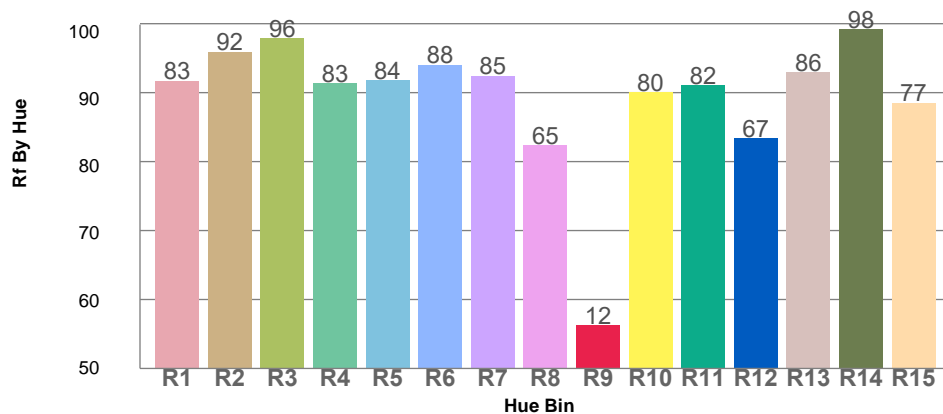
Rg 95.7

Color	TM30 Rf	TM30 Rg	TM30 Rm	TM30 Rn
1	83	92	96	83
2	84	84	88	85
3	65	80	82	67
4	86	86	98	77
5	83	83	83	83
6	84	84	84	84
7	85	85	85	85
8	86	86	86	86
9	87	87	87	87
10	88	88	88	88
11	89	89	89	89
12	90	90	90	90
13	91	91	91	91
14	92	92	92	92
15	93	93	93	93
16	94	94	94	94
17	95	95	95	95
18	96	96	96	96
19	97	97	97	97
20	98	98	98	98
21	99	99	99	99
22	100	100	100	100

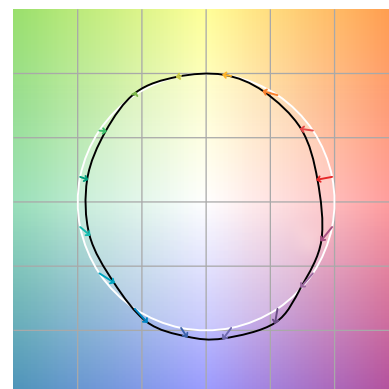


Approx. limits for sources on the Planckian locus.
 Approx. limits for practical light sources.

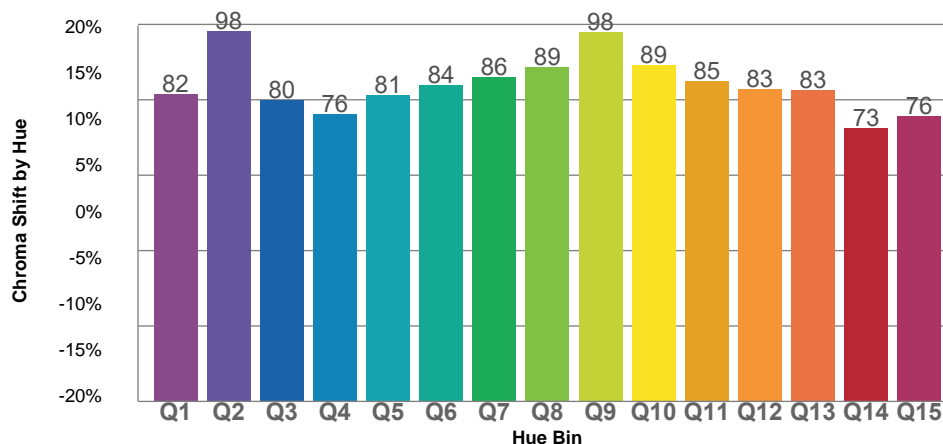
TM30 OVER 50



COLOR VECTOR GRAPHICS



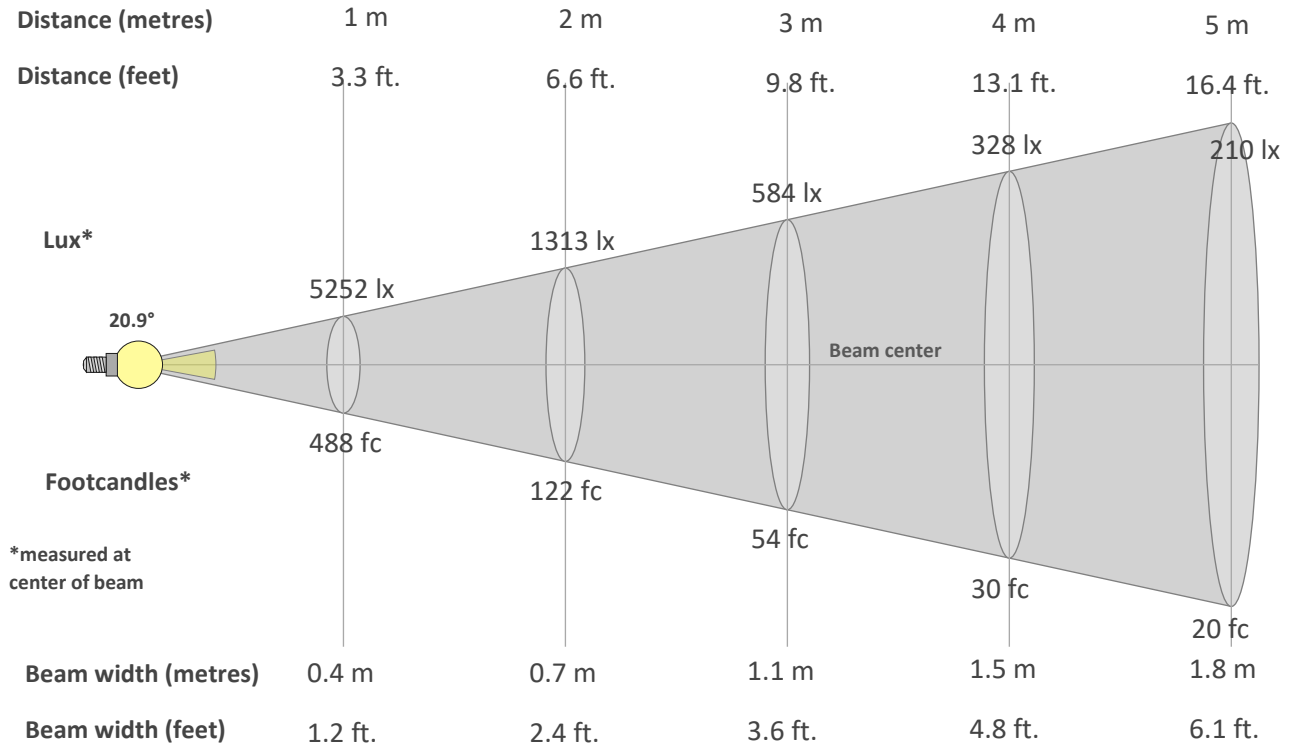
TM30 CHROMA SHIFT



COLOR DISTORTION GRAPHICS



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
5252lx	1313lx	584lx	328lx	210lx	146lx	107lx	82lx	65lx	53lx	43lx	36lx	31lx	27lx	23lx	21lx	18lx	16lx	15lx	13lx
488fc	122fc	54.2fc	30.5fc	19.5fc	13.6fc	10fc	7.6fc	6fc	4.9fc	4fc	3.4fc	2.9fc	2.5fc	2.2fc	1.9fc	1.7fc	1.5fc	1.4fc	1.2fc

Intensity in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
5252	4886	4748	4457	3934	3412	2883	2353	1887	1518	1149	939	747	597	510	422	374	329	291	262
100%	93%	90%	85%	75%	65%	55%	45%	36%	29%	22%	18%	14%	11%	10%	8%	7%	6%	6%	5%

Intensity in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
5252	5231	5223	5192	5161	5101	5032	4951	4838	4724	4574	4411	4235	4022	3808	3565	3311	3055	2788	2521
100%	100%	99%	99%	98%	97%	96%	94%	92%	90%	87%	84%	81%	77%	73%	68%	63%	58%	53%	48%

Intensity in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
5252	4886	4748	4457	3934	3412	2883	2353	1887	1518	1149	939	747	597	510	422	374	329	291	262
100%	93%	90%	85%	75%	65%	55%	45%	36%	29%	22%	18%	14%	11%	10%	8%	7%	6%	6%	5%

Intensity in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
5252	5231	5223	5192	5161	5101	5032	4951	4838	4724	4574	4411	4235	4022	3808	3565	3311	3055	2788	2521
100%	100%	99%	99%	98%	97%	96%	94%	92%	90%	87%	84%	81%	77%	73%	68%	63%	58%	53%	48%