

Product name:

SW-HE-QR24-9.0-DRY-30

Date:

8/30/2024

Output: 994 lm/ft**Peak:** 337 cd**Power:** 8.5 W/ft**PF:** 1.0

No photo

Light efficiency:

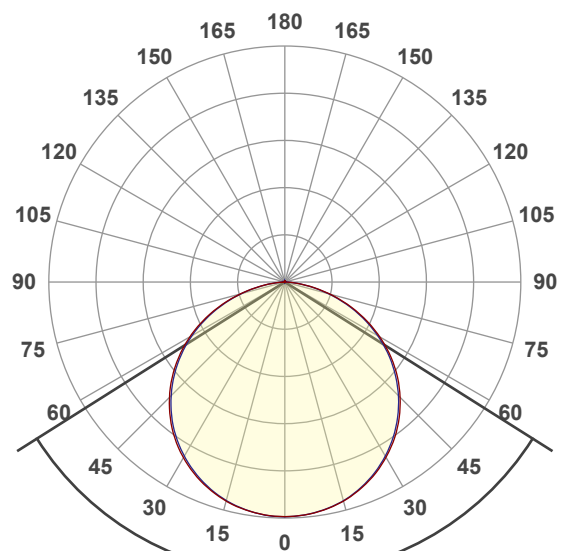
117 Lumen/Watt

Light quality:

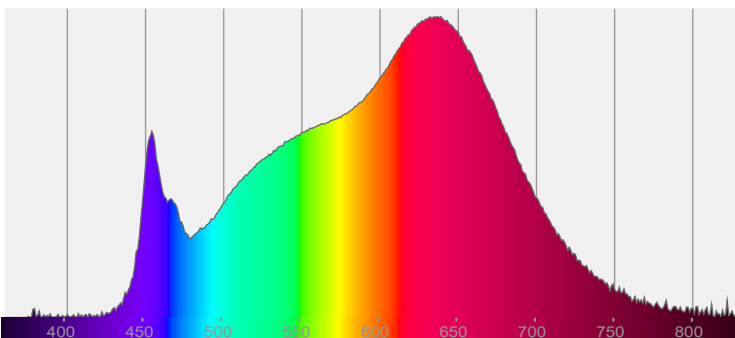
CRI: 97.7

Color temperature:

3079 K

Beam Angle

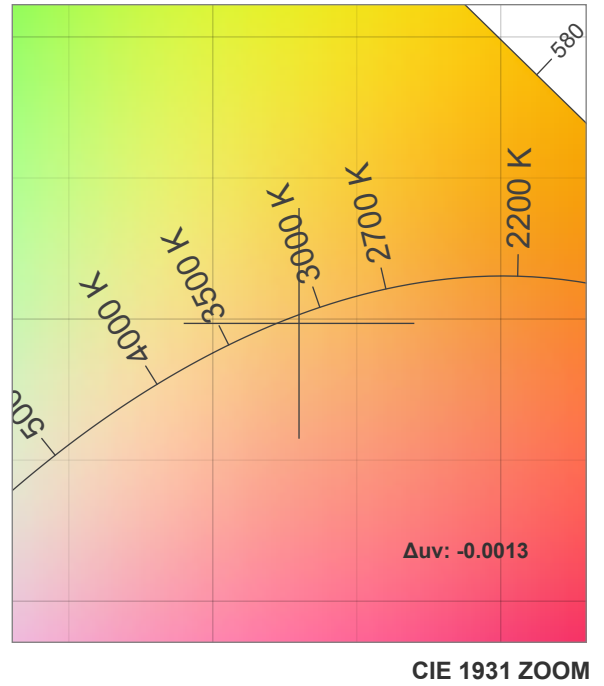
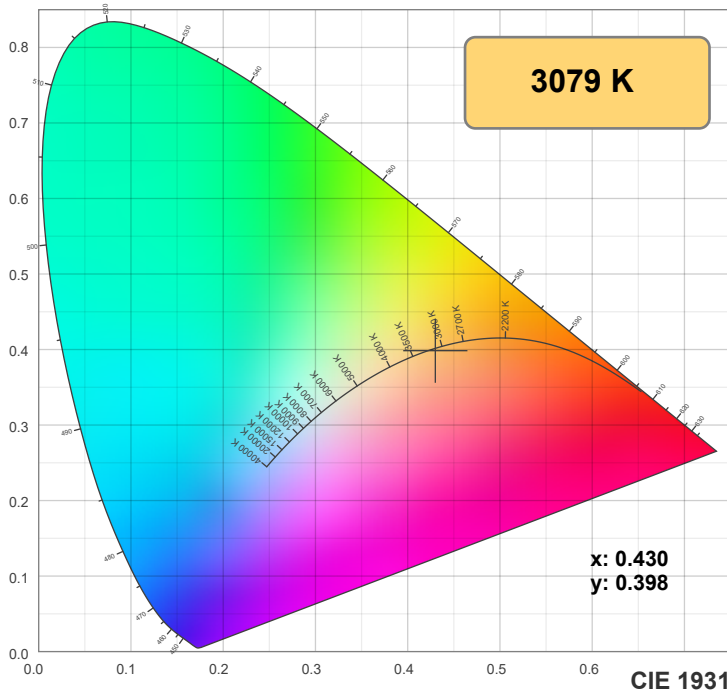
115.4°

CIE 1931
x: 0.430
y: 0.398**Spectra****Power**Voltage: 24.0 V
Current: 0.355 A
Frequency: 0 Hz

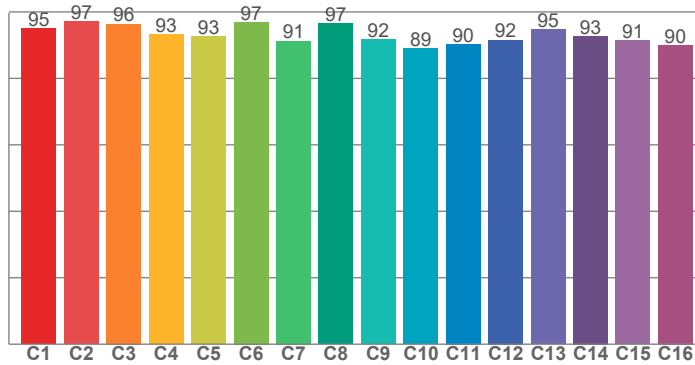
Color Details



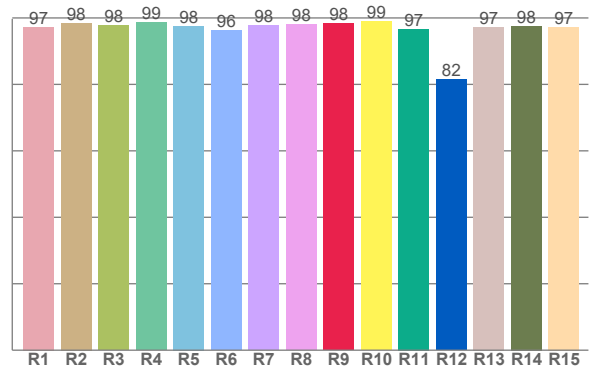
SW-HE-QR24-9.0-DRY-30



TM30: 93.3



CRI: 97.7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.3	98.5	97.7	98.6	97.6	96.3	97.7	98.0	98.3	98.9	96.6	81.5	97.3	97.6	97.3

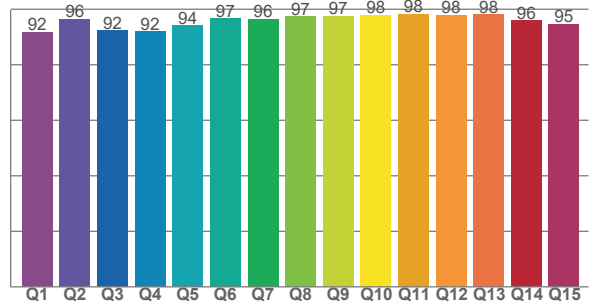
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.1	97.2	96.4	93.3	92.6	96.9	91.3	96.6	91.7	89.0	90.3	91.6	94.7	92.7	91.3	90.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.8	96.5	92.3	92.0	94.1	96.6	96.5	97.4	97.5	97.9	98.3	98.0	98.1	95.8	94.6

CQS: 95.0



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color divition from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3079 K	97.7	98.3	93.3	100.3	95.0	0.430	0.398	0.248	0.345	-0.0013

TM30 Details



SW-HE-QR24-9.0-DRY-30

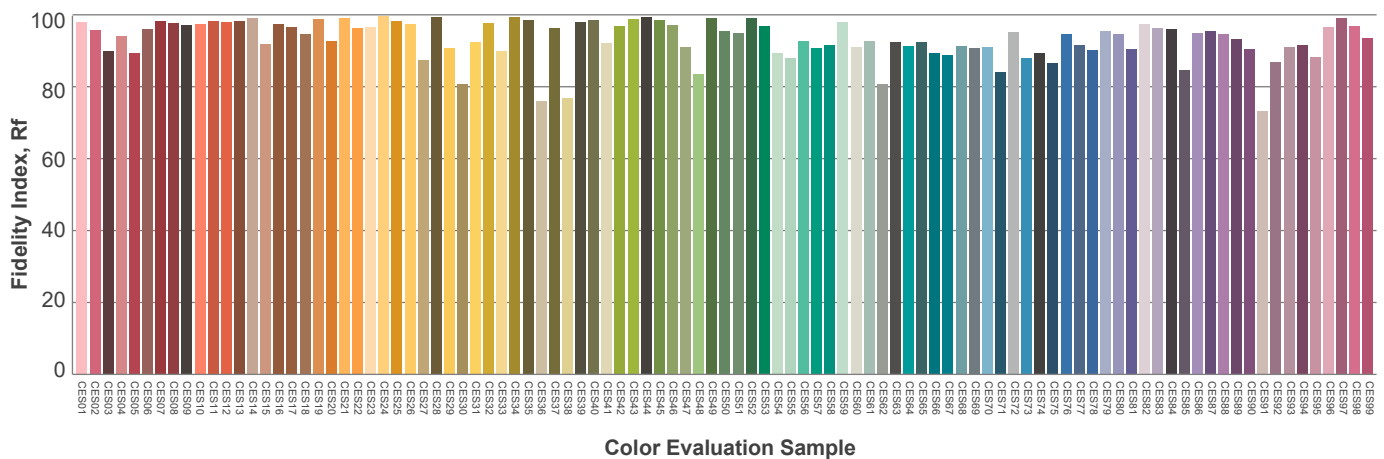
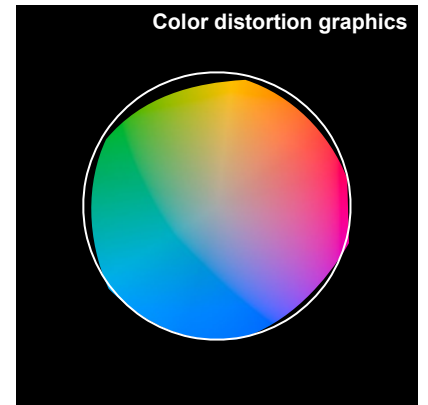
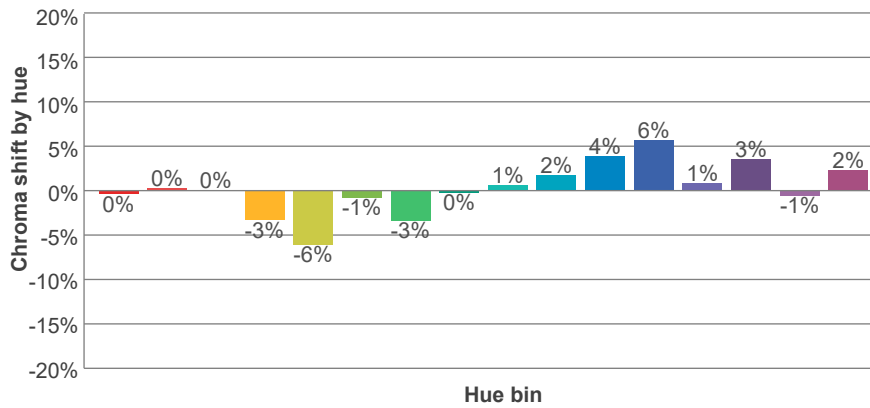
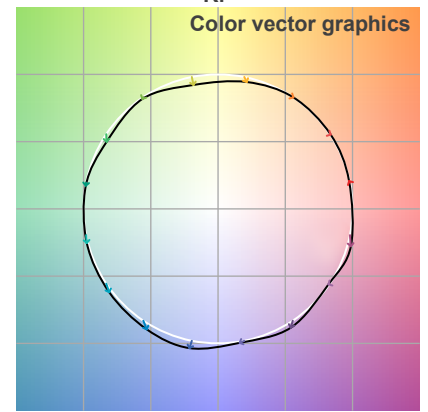
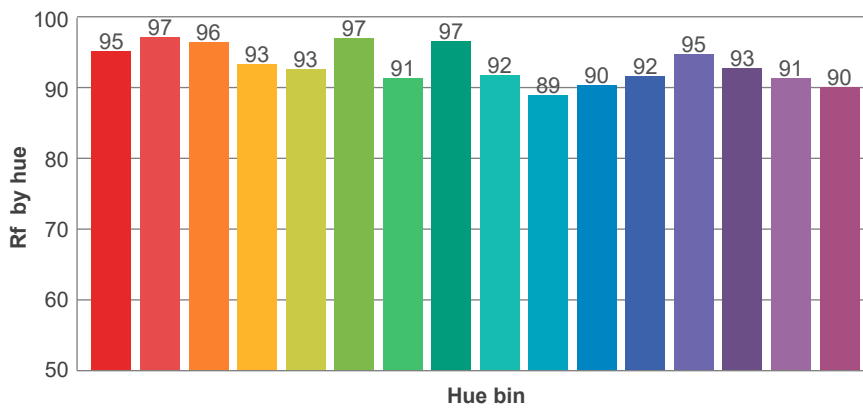
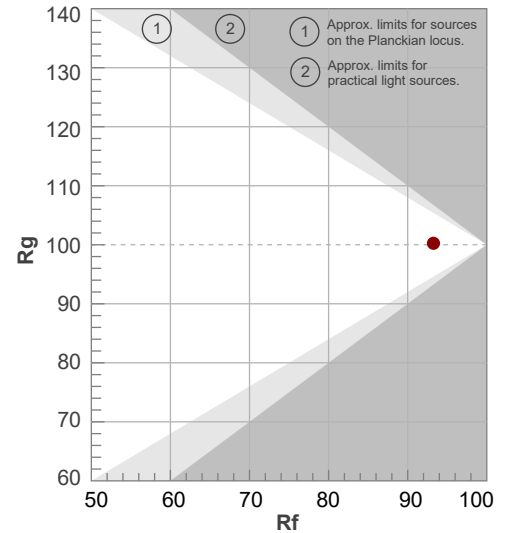
Rf 93.3

Fidelity index Rf

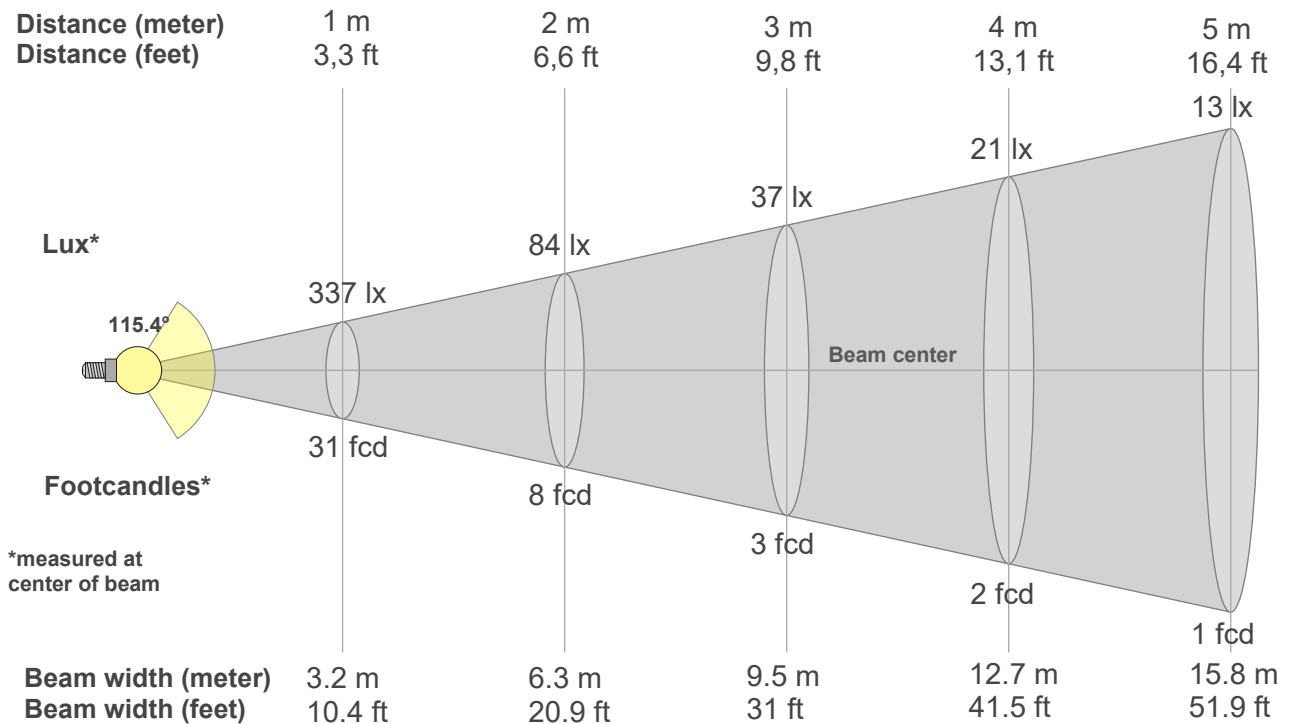
Rg 100.3

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	1%
2	97	0%	-1%
3	96	0%	0%
4	93	-3%	-2%
5	93	-6%	0%
6	97	-1%	1%
7	91	-3%	4%
8	97	0%	2%
9	92	1%	6%
10	89	2%	7%
11	90	4%	6%
12	92	6%	-1%
13	95	1%	-4%
14	93	3%	-4%
15	91	-1%	-1%
16	90	2%	-8%



Color Evaluation Sample



Beam intensities 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
337lx	84lx	37lx	21lx	13lx	9lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx
31.3fcd	7.8fcd	3.5fcd	2fcd	1.3fcd	0.9fcd	0.6fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
337	336	332	326	317	305	291	274	256	234	211	185	157	128	98	67	39	15	3	0
100%	100%	99%	97%	94%	91%	86%	81%	76%	70%	63%	55%	47%	38%	29%	20%	11%	5%	1%	0%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
337	336	332	325	316	303	289	272	252	231	207	182	154	125	95	65	37	14	2	0
100%	100%	98%	97%	94%	90%	86%	81%	75%	69%	61%	54%	46%	37%	28%	19%	11%	4%	1%	0%

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
337	336	332	326	317	305	291	275	256	234	211	185	157	128	97	67	38	15	3	0
100%	100%	98%	97%	94%	91%	86%	82%	76%	70%	63%	55%	47%	38%	29%	20%	11%	4%	1%	0%

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
337	336	331	325	315	303	289	272	253	231	207	181	154	125	95	65	36	14	3	1
100%	100%	98%	96%	94%	90%	86%	81%	75%	68%	61%	54%	46%	37%	28%	19%	11%	4%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
115.4°	161.4°	173.5°	78.3%	52.8%