

Light efficiency:



Output: 1144 lm



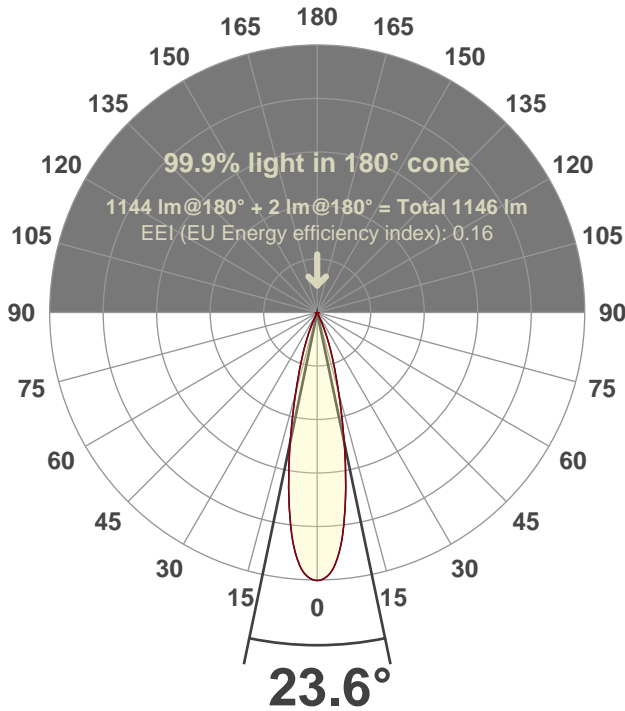
Light quality:



Peak: 6031 cd

Power: 14.0 W

Beam angle



Test number:

SCW3D-R-C14-30k-24°-Rev1

Luminaire Model:

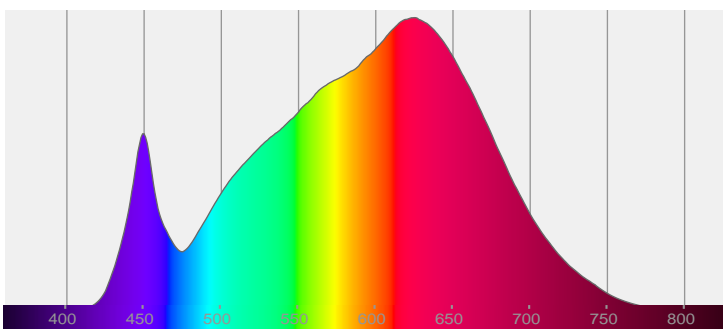
Scope Wonder 3" Round Downlight-C14-30k-24°

Date and time:

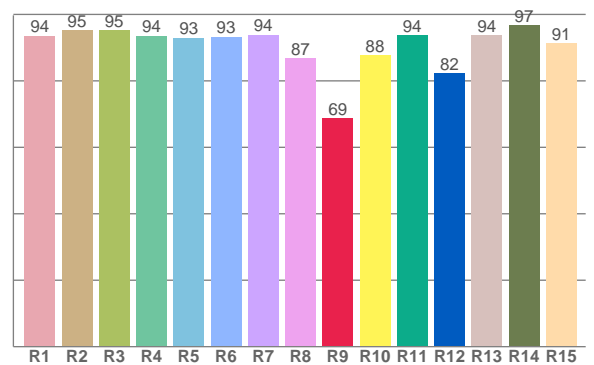
5/27/2021 1:54:28 PM

LUM: 1144

Spectra



CRI: 93.0 (R1-R8)



Color parameters

	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 deviation from black body
	CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
	93.0	68.6	91.7	101.7	90.9	0.425	0.397	0.246	0.344	-0.0012

**$R_f$  91.7**

Fidelity index  $R_f$

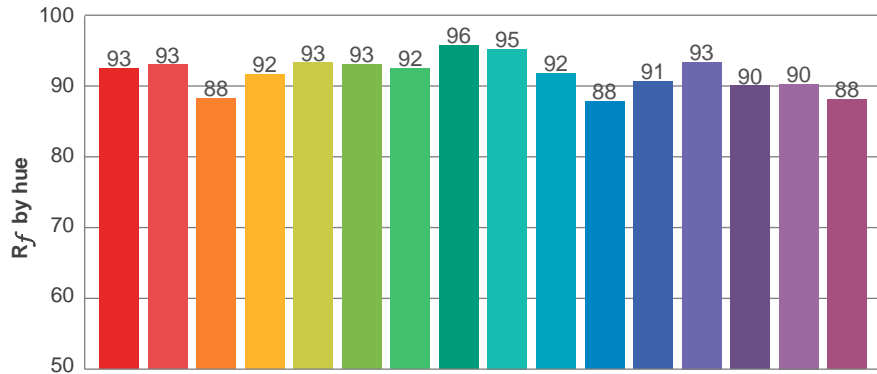
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**$R_g$  101.7**

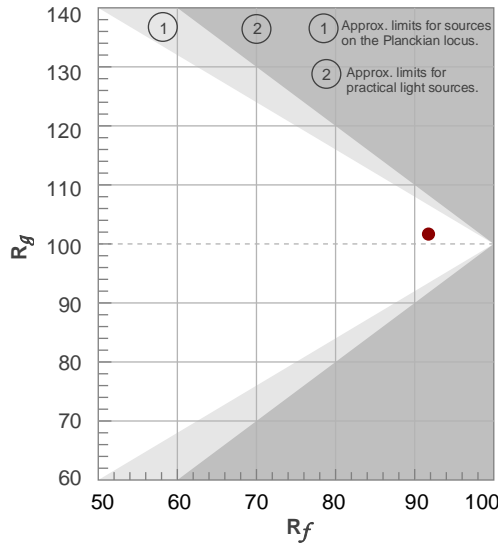
Gammut index  $R_g$

TM30: 91.7

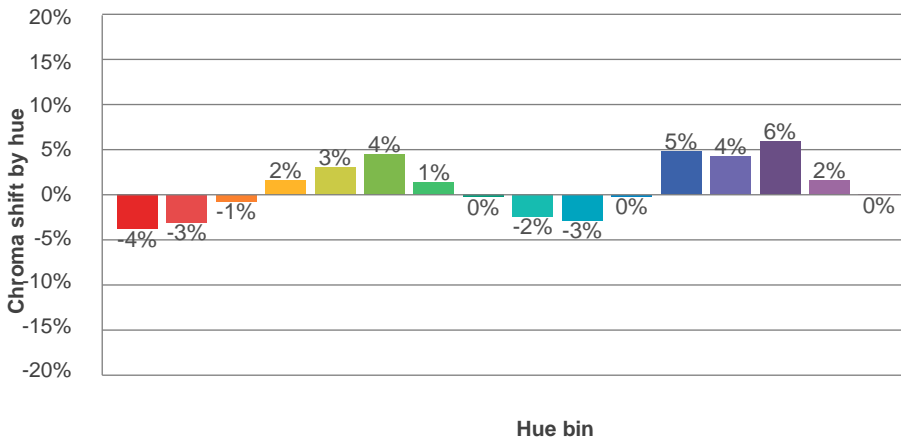
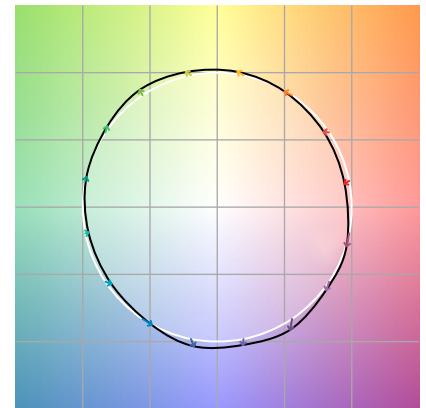
TM-30Color



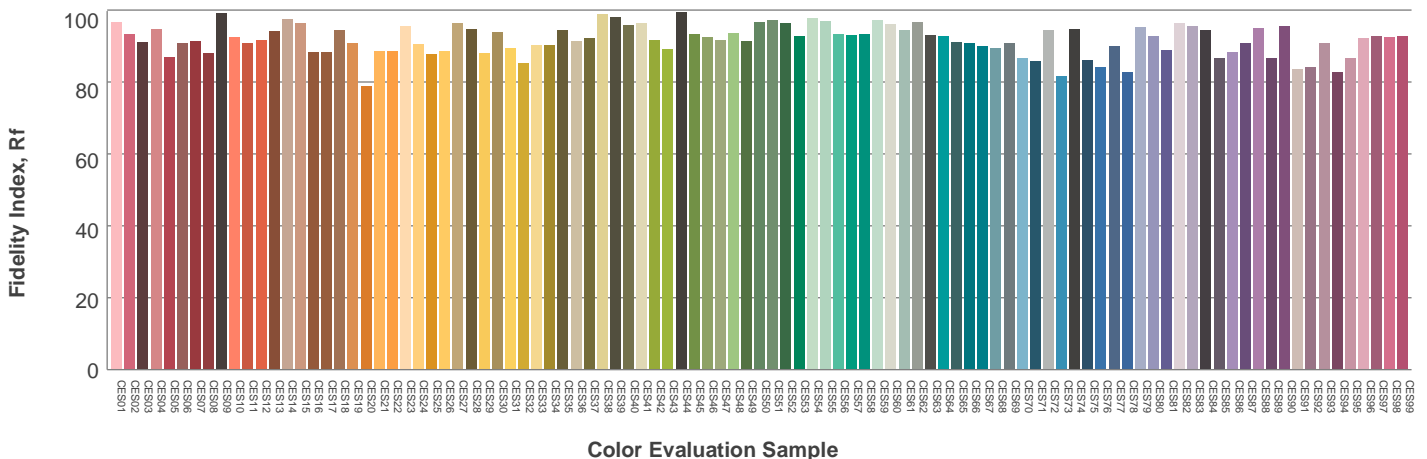
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-1%
2	93	-3%	3%
3	88	-1%	6%
4	92	2%	5%
5	93	3%	3%
6	93	4%	-1%
7	92	1%	-4%
8	96	0%	-3%
9	95	-2%	0%
10	92	-3%	4%
11	88	0%	8%
12	91	5%	3%
13	93	4%	-1%
14	90	6%	-5%
15	90	2%	-6%
16	88	0%	-10%



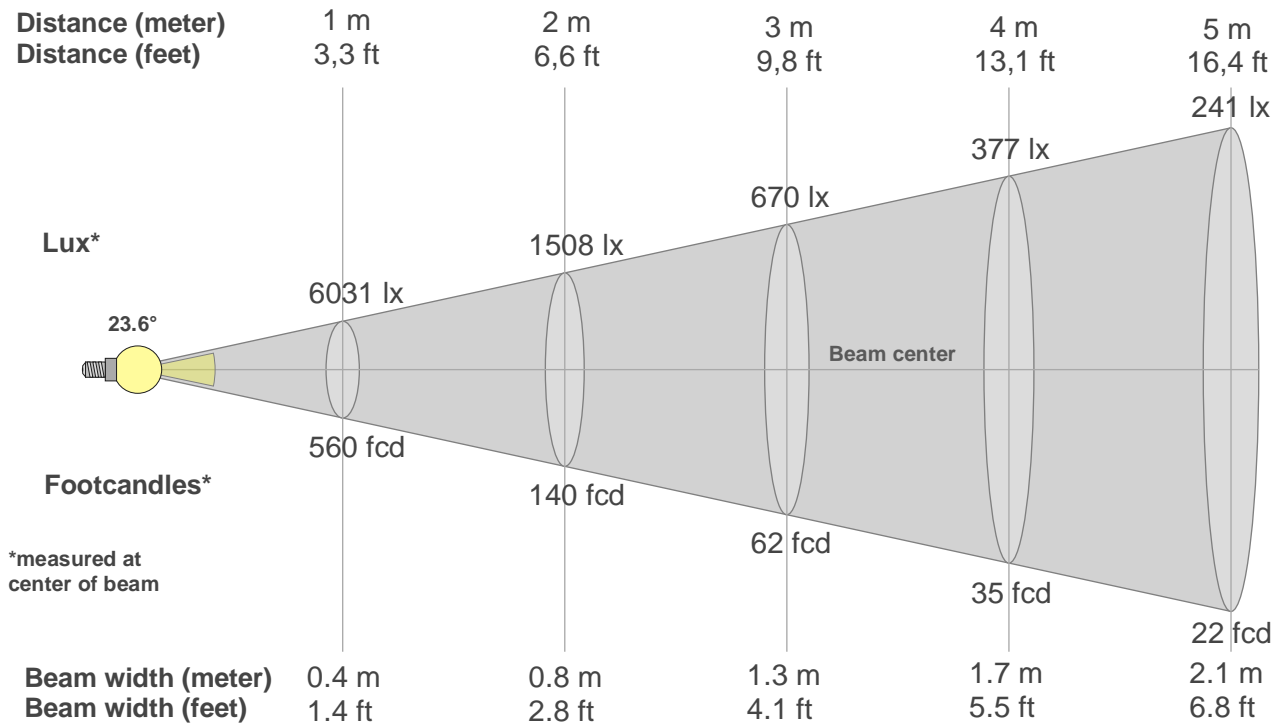
Color vector graphics



Color distortion



### Beam details



\*measured at center of beam

#### 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
6031lx	1508lx	670lx	377lx	241lx	168lx	123lx	94lx	74lx	60lx	50lx	42lx	36lx	31lx	27lx	24lx	21lx	19lx	17lx	15lx
560.3fcd	140.1fcd	62.3fcd	35fcd	22.4fcd	15.6fcd	11.4fcd	8.8fcd	6.9fcd	5.6fcd	4.6fcd	3.9fcd	3.3fcd	2.9fcd	2.5fcd	2.2fcd	1.9fcd	1.7fcd	1.6fcd	1.4fcd

#### Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
6031	5955	5712	5222	4503	3718	2935	2215	1629	1205	865	582	345	156	56	24	16	13	10	8
100%	99%	95%	87%	75%	62%	49%	37%	27%	20%	14%	10%	6%	3%	1%	0%	0%	0%	0%	0%

#### Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
6031	5955	5712	5222	4503	3718	2935	2215	1629	1205	865	582	345	156	56	24	16	13	10	8
100%	99%	95%	87%	75%	62%	49%	37%	27%	20%	14%	10%	6%	3%	1%	0%	0%	0%	0%	0%

#### Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
6031	5955	5712	5222	4503	3718	2935	2215	1629	1205	865	582	345	156	56	24	16	13	10	8
100%	99%	95%	87%	75%	62%	49%	37%	27%	20%	14%	10%	6%	3%	1%	0%	0%	0%	0%	0%

#### Intensities in 270° c-plane

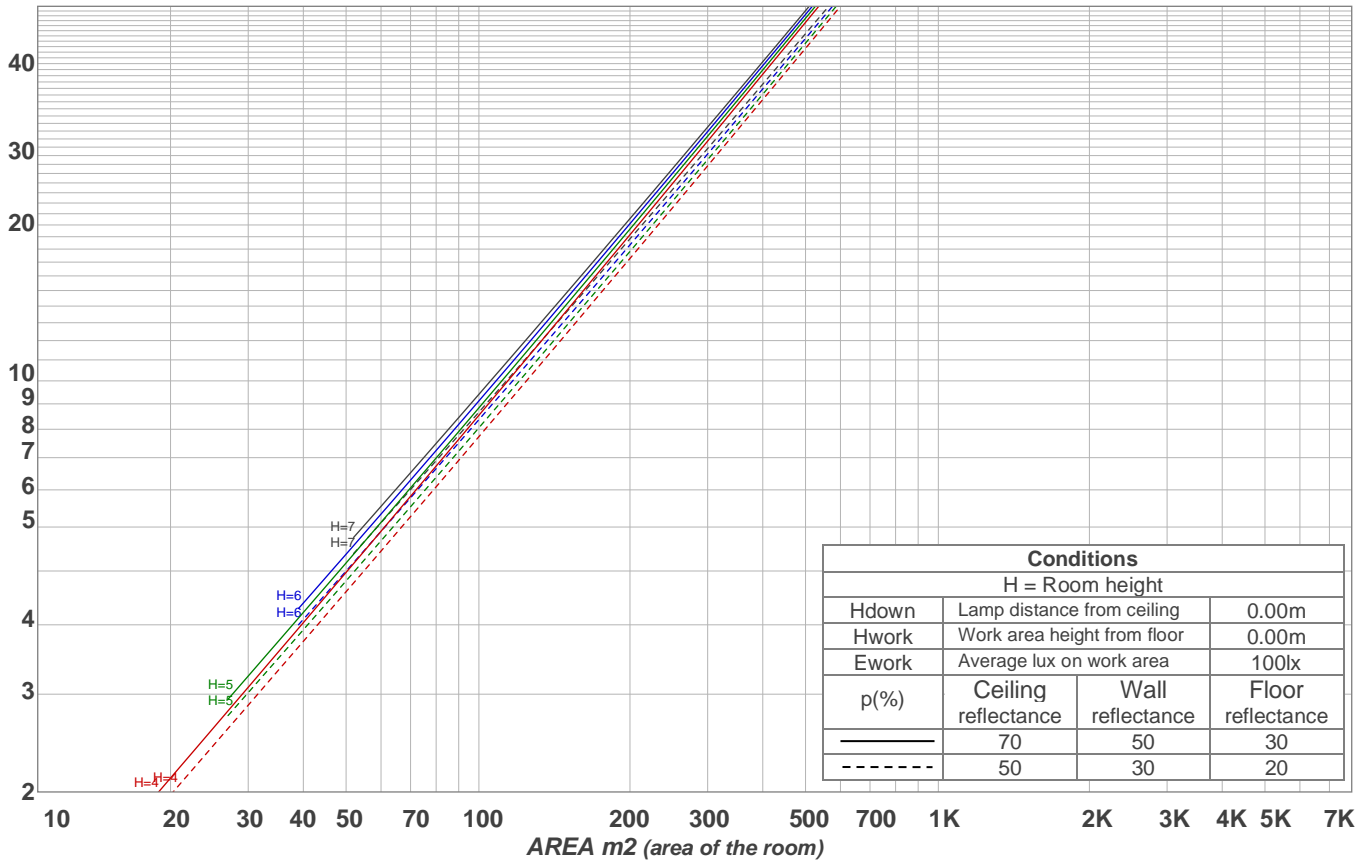
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
6031	5955	5712	5222	4503	3718	2935	2215	1629	1205	865	582	345	156	56	24	16	13	10	8
100%	99%	95%	87%	75%	62%	49%	37%	27%	20%	14%	10%	6%	3%	1%	0%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.6°	43.7°	52.2°	99.6%	99.5%

LAMPS (number of lamps)

50

### Light planning Luminaire budgetary diagram



### Luminaire budgetary diagram AREA m2 (area of the room) Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio)																	
	Room Values are expressed as percentage of Lumens delivered to the task surface																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	110	113	111	110	108	107	106	105	104	103	102	100	99	99	97
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	94
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92
4	106	101	97	94	104	100	96	94	98	95	93	96	94	92	94	92	91	90
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	92	90	88	87
6	100	95	91	88	99	94	90	88	93	90	87	91	89	87	90	88	86	85
7	98	92	88	86	97	91	88	85	90	87	85	89	87	85	88	86	84	83
8	96	90	86	83	95	89	86	83	88	85	83	87	85	83	87	84	82	81
9	93	87	84	81	93	87	83	81	86	83	81	86	83	81	85	82	80	80
10	91	85	82	79	91	85	81	79	84	81	79	84	81	79	83	81	79	78

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
469 lm	533 lm	129 lm	7.15 lm	2.45 lm	1.12 lm	0.860 lm	0.811 lm	0.827 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm

### UGR

p Ceiling	70	70	50	50	30	70	70	50	50	30	
p Walls	50	30	50	30	30	50	30	50	30	30	
p Floor	20	20	20	20	20	20	20	20	20	20	
Room size X    Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	9.5	9.8	9.5	10.0	10.2	9.5	9.8	9.5	10.0	10.2
	3H	9.9	10.4	10.3	10.6	10.8	9.9	10.4	10.3	10.6	10.8
	4H	10.6	11.1	11.0	11.3	11.5	10.6	11.1	11.0	11.3	11.5
	6H	11.7	12.1	11.9	12.4	12.7	11.7	12.1	11.9	12.4	12.7
	8H	12.4	12.8	12.7	13.1	13.5	12.4	12.8	12.7	13.1	13.5
	12H	13.4	13.8	13.7	14.1	14.5	13.4	13.8	13.7	14.1	14.5
4H	2H	9.4	9.9	9.8	10.1	10.4	9.4	9.9	9.8	10.1	10.4
	3H	10.4	10.8	10.7	11.1	11.5	10.4	10.8	10.7	11.1	11.5
	4H	11.2	11.6	11.6	12.0	12.5	11.2	11.6	11.6	12.0	12.5
	6H	12.6	13.0	13.1	13.4	13.7	12.6	13.0	13.1	13.4	13.7
	8H	13.5	13.9	14.0	14.2	14.6	13.5	13.9	14.0	14.2	14.6
	12H	14.7	15.0	15.2	15.4	15.9	14.7	15.0	15.2	15.4	15.9
8H	4H	11.6	12.0	12.2	12.4	12.7	11.6	12.0	12.2	12.4	12.7
	6H	13.4	13.6	13.9	14.1	14.6	13.4	13.6	13.9	14.1	14.6
	8H	14.6	14.8	15.1	15.3	15.9	14.6	14.8	15.1	15.3	15.9
	12H	16.1	16.3	16.7	16.8	17.4	16.1	16.3	16.7	16.8	17.4
12H	4H	11.8	12.1	12.3	12.5	12.9	11.8	12.1	12.3	12.5	12.9
	6H	13.7	13.9	14.2	14.4	15.0	13.7	13.9	14.2	14.4	15.0
	8H	15.0	15.1	15.6	15.6	16.2	15.0	15.1	15.6	15.6	16.2
Corrected glare indices referring to 1144 lm total luminous flux											