

Light efficiency:



Output: 1174 lm



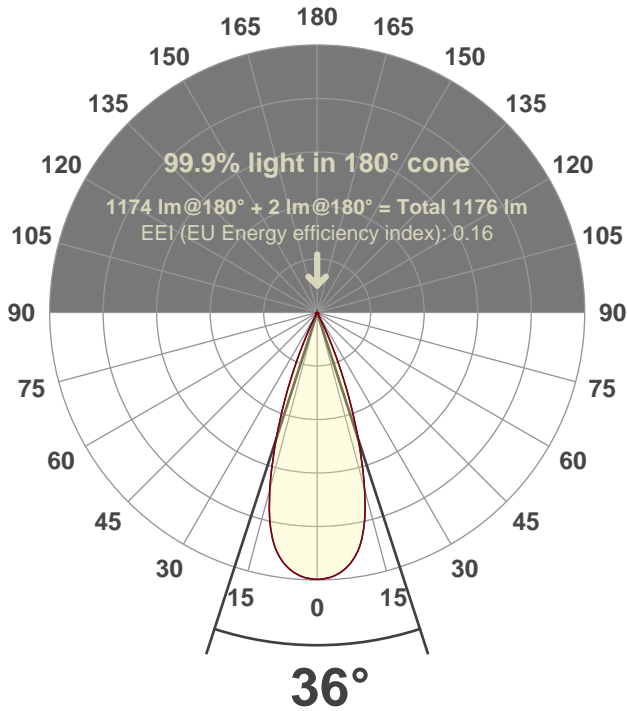
Light quality:



Peak: 3509 cd

Power: 14.1 W

Beam angle



Test number:

SCW3D-R-C14-30k-36°-Rev1

Luminaire Model:

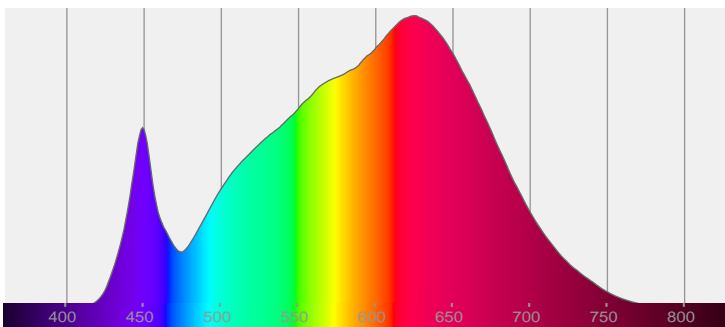
Scope Wonder 3" Round Downlight-C14-30k-36°

Date and time:

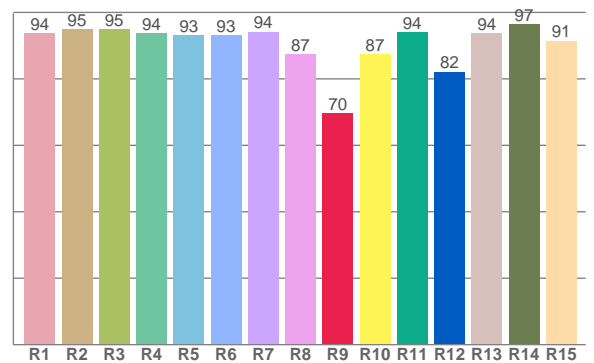
5/27/2021 2:20:19 PM

LUM: 1174

Spectra



CRI: 93.1 (R1-R8)



Color parameters

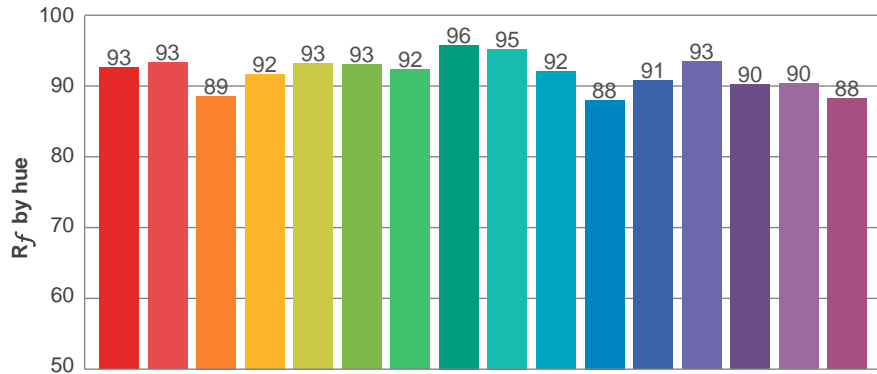
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	93.1	69.6	91.9	101.7	91.2	0.424	0.398	0.245	0.345	-0.0007

R_f 91.9
Fidelity index R_f

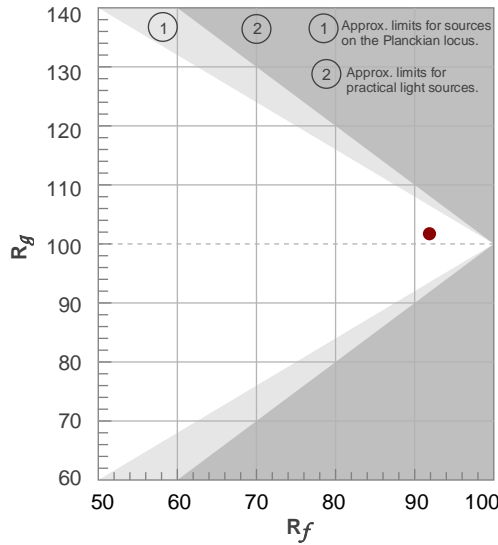
R_g 101.7
Gammut index R_g

TM30: 91.9

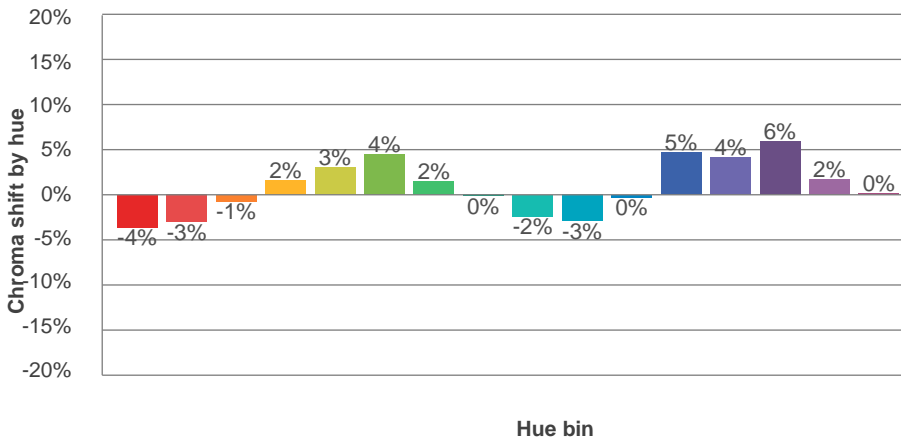
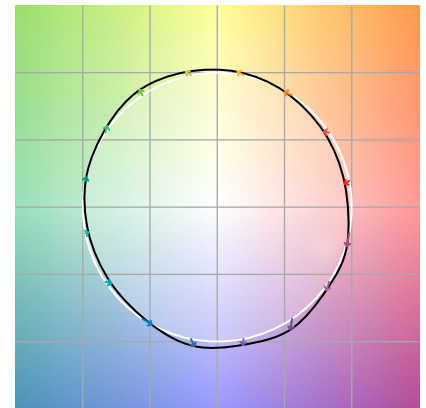
TM-30Color



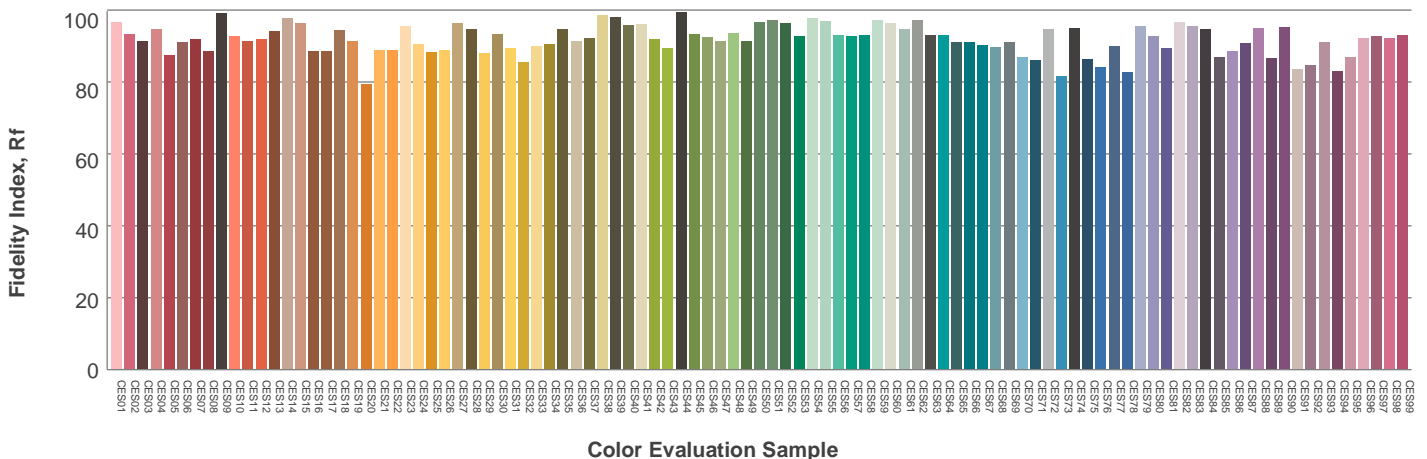
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-2%
2	93	-3%	2%
3	89	-1%	6%
4	92	2%	5%
5	93	3%	3%
6	93	4%	0%
7	92	2%	-4%
8	96	0%	-3%
9	95	-2%	0%
10	92	-3%	3%
11	88	0%	8%
12	91	5%	3%
13	93	4%	-1%
14	90	6%	-5%
15	90	2%	-6%
16	88	0%	-10%



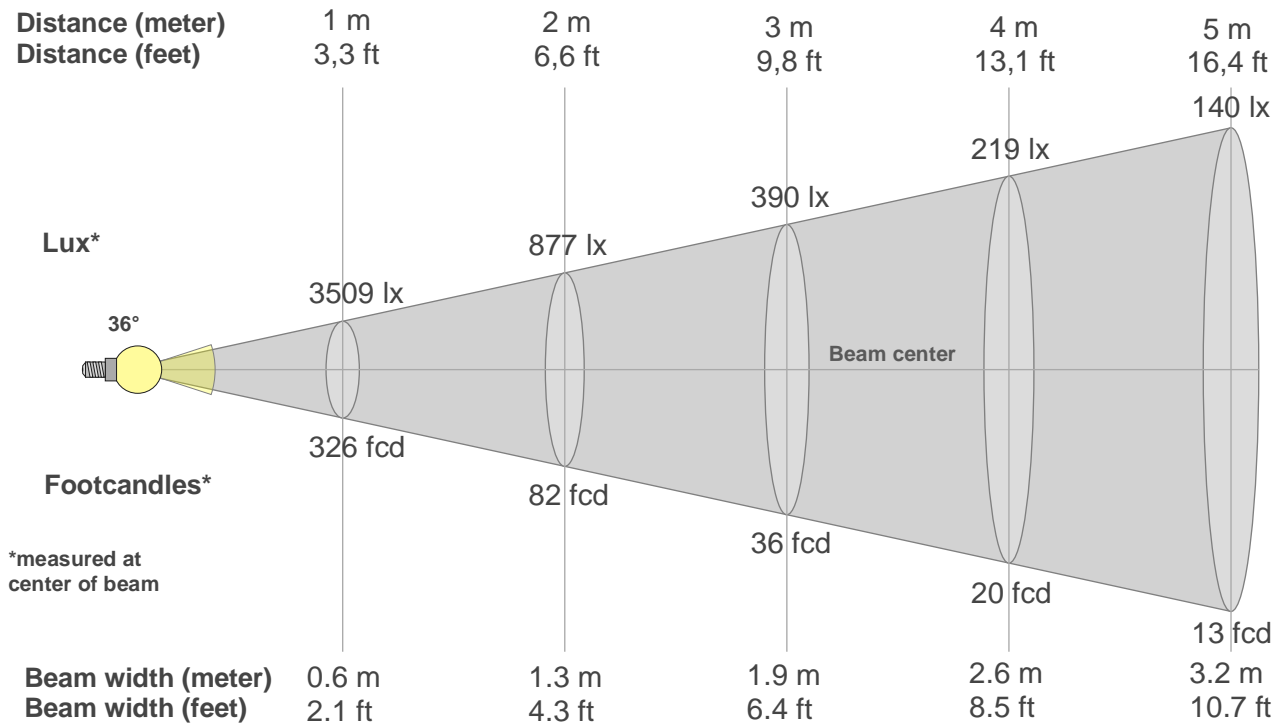
Color vector graphics



Color distortion



Beam details



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
3509lx	877lx	390lx	219lx	140lx	97lx	72lx	55lx	43lx	35lx	29lx	24lx	21lx	18lx	16lx	14lx	12lx	11lx	10lx	9lx
326fcd	81.5fcd	36.2fcd	20.4fcd	13fcd	9.1fcd	6.7fcd	5.1fcd	4fcd	3.3fcd	2.7fcd	2.3fcd	1.9fcd	1.7fcd	1.4fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd

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°
3509	3497	3462	3401	3302	3147	2916	2598	2201	1755	1314	899	539	262	89	35	21	15	11	8
100%	100%	99%	97%	94%	90%	83%	74%	63%	50%	37%	26%	15%	7%	3%	1%	1%	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°
3509	3497	3462	3401	3302	3147	2916	2598	2201	1755	1314	899	539	262	89	35	21	15	11	8
100%	100%	99%	97%	94%	90%	83%	74%	63%	50%	37%	26%	15%	7%	3%	1%	1%	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°
3509	3497	3462	3401	3302	3147	2916	2598	2201	1755	1314	899	539	262	89	35	21	15	11	8
100%	100%	99%	97%	94%	90%	83%	74%	63%	50%	37%	26%	15%	7%	3%	1%	1%	0%	0%	0%

Intensities in 270° c-plane

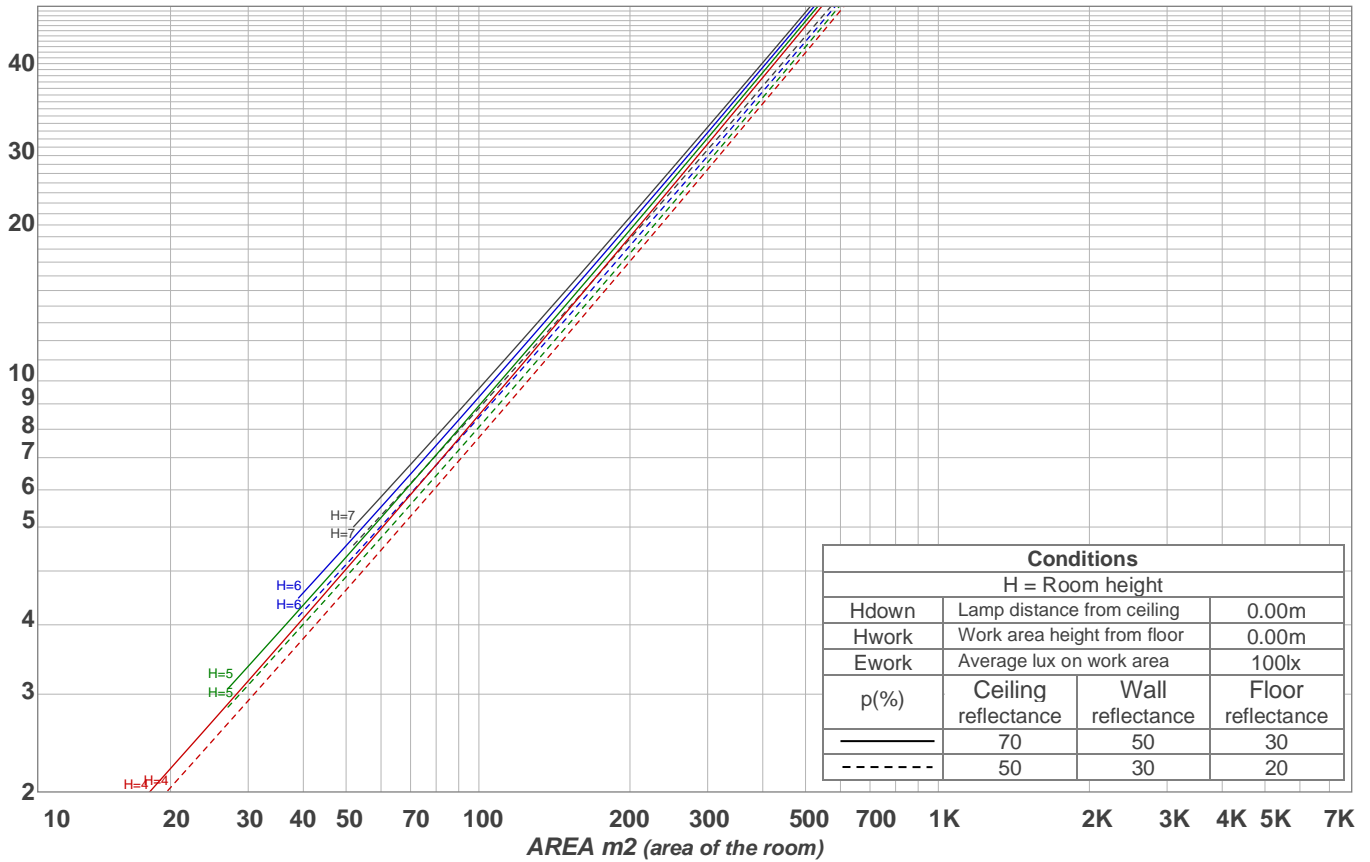
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3509	3497	3462	3401	3302	3147	2916	2598	2201	1755	1314	899	539	262	89	35	21	15	11	8
100%	100%	99%	97%	94%	90%	83%	74%	63%	50%	37%	26%	15%	7%	3%	1%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36°	50.3°	56.1°	99.7%	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	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	95	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	93	95	93	91	90
4	104	99	95	92	103	98	94	91	96	92	90	94	91	89	92	90	88	87
5	101	95	91	88	100	94	90	87	92	89	87	91	88	86	90	87	85	84
6	98	92	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82	81
7	95	88	84	81	94	88	84	81	87	83	81	86	83	80	85	82	80	79
8	92	86	81	78	91	85	81	78	84	81	78	83	80	78	82	80	77	76
9	90	83	79	76	89	82	78	76	82	78	75	81	78	75	80	77	75	74
10	87	80	76	73	86	80	76	73	79	76	73	79	75	73	78	75	73	72

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
319 lm	635 lm	204 lm	8.88 lm	2.96 lm	1.19 lm	0.706 lm	0.717 lm	0.690 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

www.specialtylightingindustries.com As a result of our continuous improvement, values are subject to change without notice. These are delivered results and can vary +/- 10% from published source data range.

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	10.2	10.6	10.3	10.8	11.0	10.2	10.6	10.3	10.8	11.0
	3H	10.3	10.9	10.7	11.1	11.3	10.3	10.9	10.7	11.1	11.3
	4H	10.8	11.3	11.1	11.5	11.8	10.8	11.3	11.1	11.5	11.8
	6H	11.6	12.0	11.9	12.3	12.7	11.6	12.0	11.9	12.3	12.7
	8H	12.2	12.6	12.5	12.9	13.3	12.2	12.6	12.5	12.9	13.3
	12H	12.9	13.3	13.3	13.7	14.1	12.9	13.3	13.3	13.7	14.1
4H	2H	10.0	10.6	10.4	10.8	11.0	10.0	10.6	10.4	10.8	11.0
	3H	10.6	11.0	10.9	11.4	11.8	10.6	11.0	10.9	11.4	11.8
	4H	11.2	11.6	11.6	12.0	12.5	11.2	11.6	11.6	12.0	12.5
	6H	12.3	12.8	12.8	13.1	13.4	12.3	12.8	12.8	13.1	13.4
	8H	13.1	13.5	13.6	13.8	14.2	13.1	13.5	13.6	13.8	14.2
	12H	14.1	14.4	14.6	14.8	15.3	14.1	14.4	14.6	14.8	15.3
8H	4H	11.5	11.9	12.0	12.2	12.6	11.5	11.9	12.0	12.2	12.6
	6H	13.0	13.2	13.5	13.7	14.2	13.0	13.2	13.5	13.7	14.2
	8H	14.1	14.2	14.6	14.8	15.4	14.1	14.2	14.6	14.8	15.4
	12H	15.3	15.5	15.9	16.0	16.6	15.3	15.5	15.9	16.0	16.6
12H	4H	11.6	11.9	12.1	12.3	12.7	11.6	11.9	12.1	12.3	12.7
	6H	13.3	13.5	13.8	14.0	14.6	13.3	13.5	13.8	14.0	14.6
	8H	14.4	14.5	15.0	15.1	15.6	14.4	14.5	15.0	15.1	15.6
Corrected glare indices referring to 1174 lm total luminous flux											