

Light efficiency:



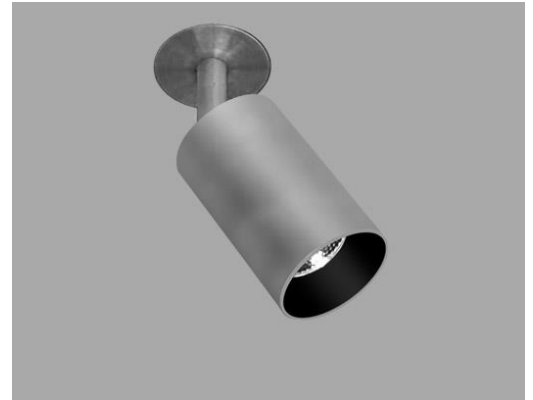
Output: 1290 lm

Light quality:

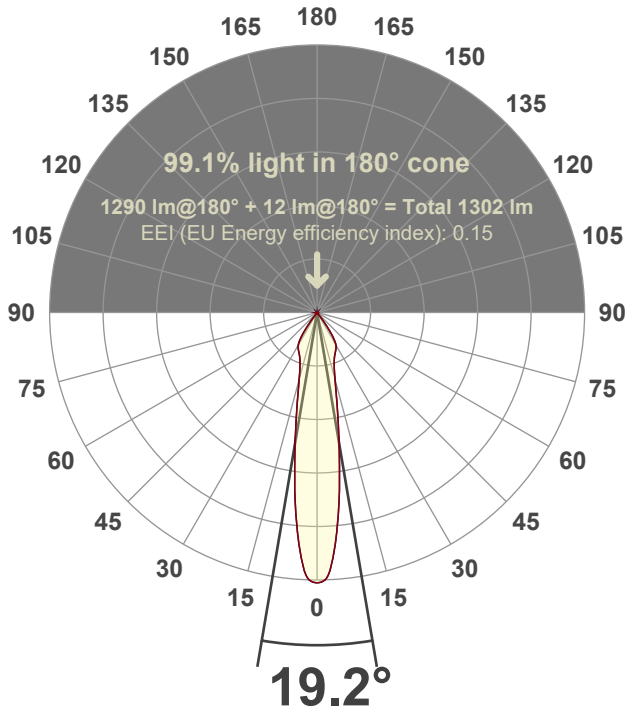


Peak: 4733 cd

Power: 14.1 W



Beam angle



Test number:

SCOM-RA-C14-30K-20°-Rev2A

Luminaire Model:

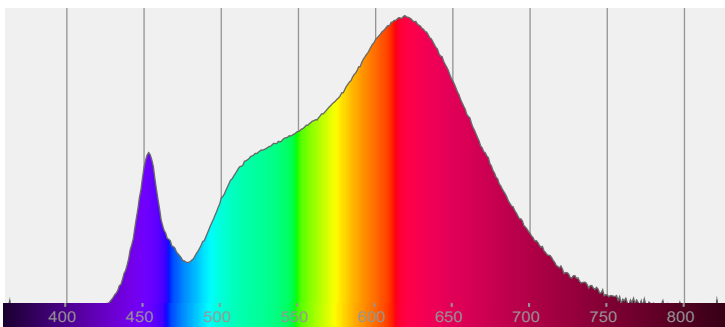
Scope Monopoint- C14-30k- 20°

Date and time:

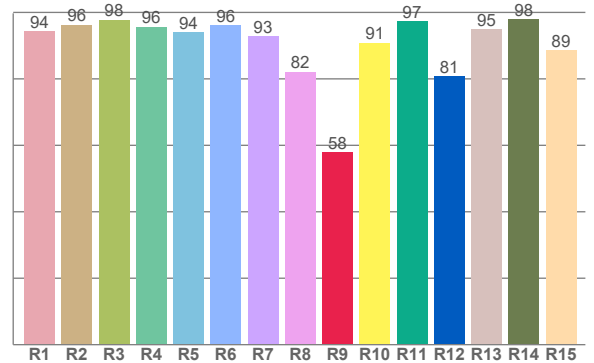
9/6/2022 5:06:17 PM

LUM: 1290

Spectra



CRI: 93.6 (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 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	
93.6	57.8	92.4	99.5	91.9	0.439	0.408	0.250	0.349	0.0013	

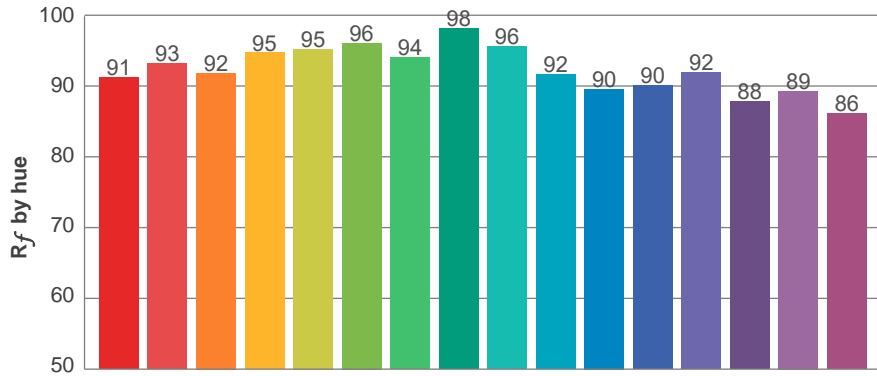
**$R_f$  92.4**

Fidelity index  $R_f$

**$R_g$  99.5**

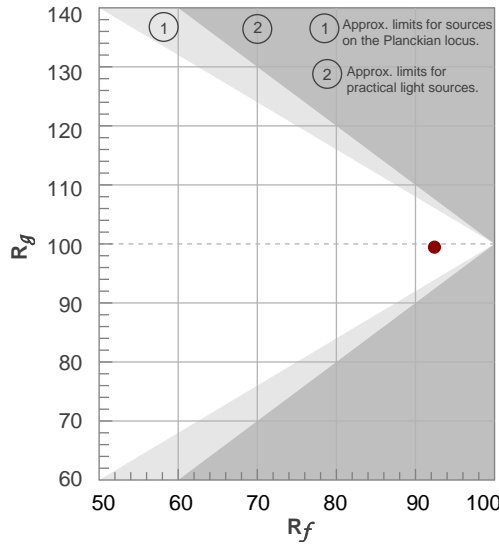
Gammut index  $R_g$

TM30: 92.4

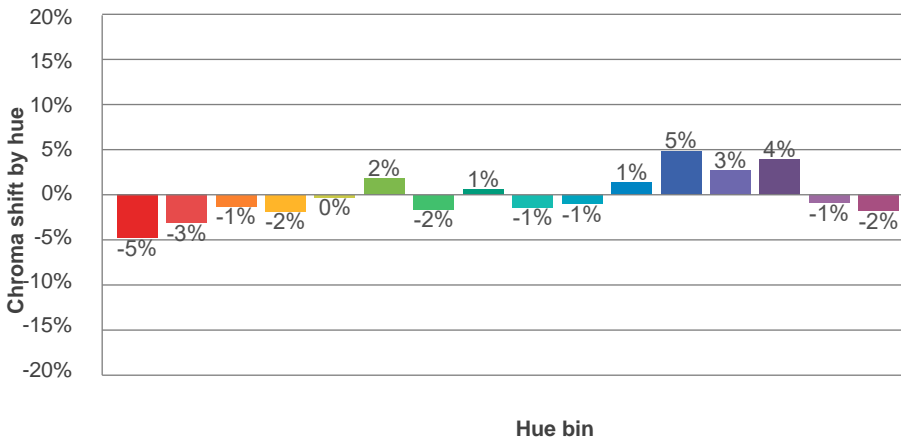
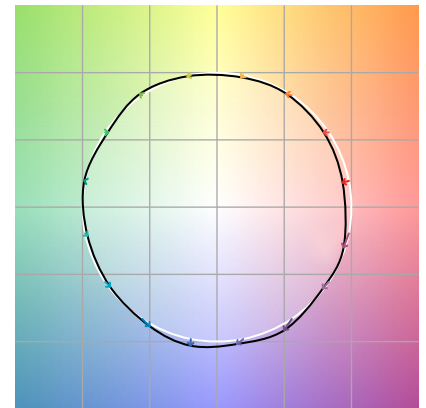


TM-30Color

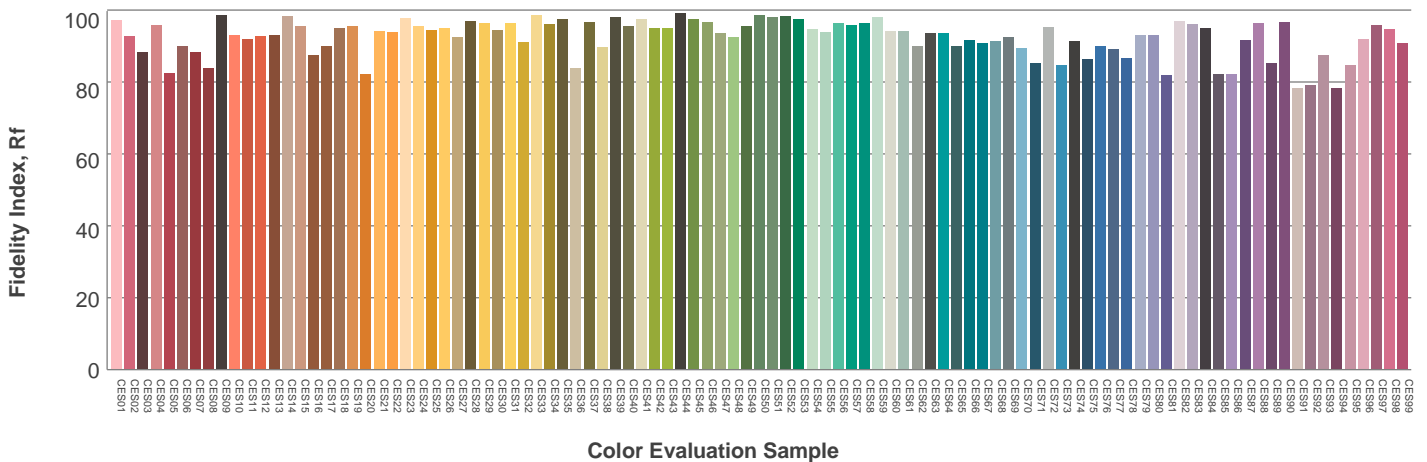
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	95	-2%	1%
5	95	0%	3%
6	96	2%	1%
7	94	-2%	-1%
8	98	1%	0%
9	96	-1%	2%
10	92	-1%	5%
11	90	1%	7%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
16	86	-2%	-11%



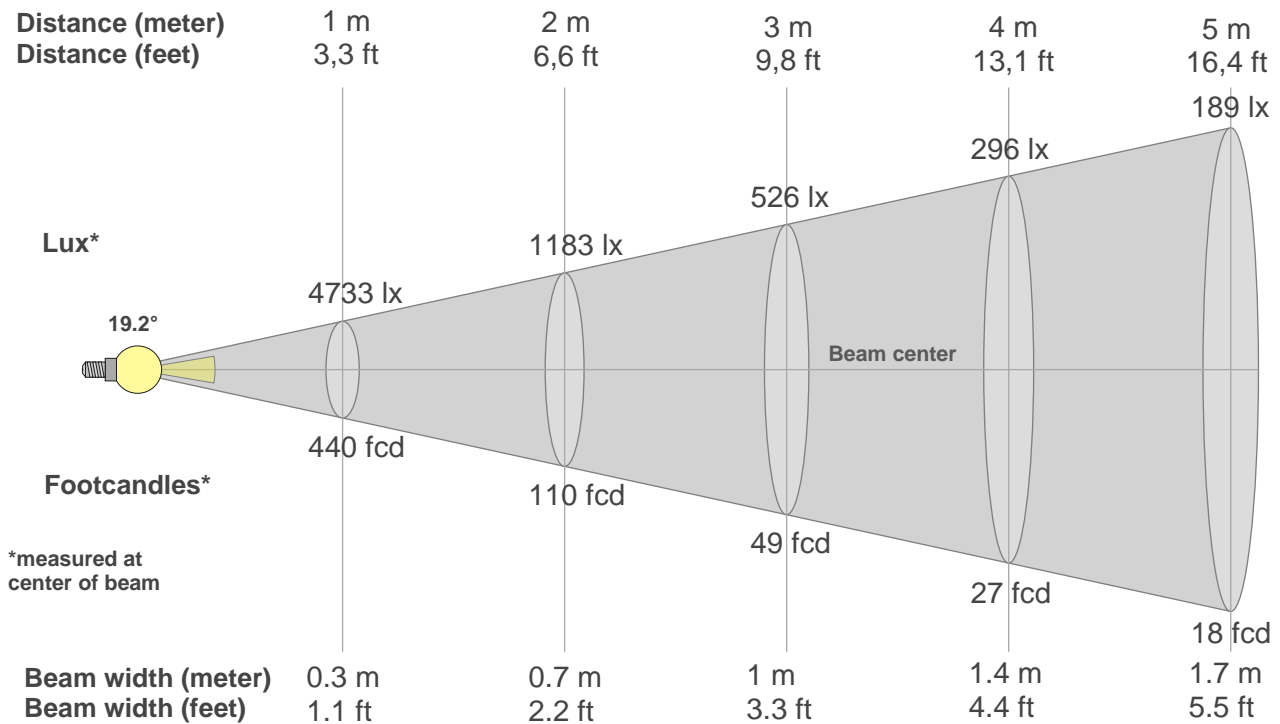
Color vector graphics



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
4733lx	1183lx	526lx	296lx	189lx	131lx	97lx	74lx	58lx	47lx	39lx	33lx	28lx	24lx	21lx	18lx	16lx	15lx	13lx	12lx
439.7fc	109.9fc	48.9fcd	27.5fcd	17.6fcd	12.2fcd	9fcd	6.9fcd	5.4fcd	4.4fcd	3.6fcd	3.1fcd	2.6fcd	2.2fcd	2fcd	1.7fcd	1.5fcd	1.4fcd	1.2fcd	1.1fcd

#### 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°
4733	4709	4255	3596	2886	2251	1749	1378	1130	989	896	834	789	751	714	671	591	461	301	153
100%	99%	90%	76%	61%	48%	37%	29%	24%	21%	19%	18%	17%	16%	15%	14%	12%	10%	6%	3%

#### 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°
4733	4709	4255	3596	2886	2251	1749	1378	1130	989	896	834	789	751	714	671	591	461	301	153
100%	99%	90%	76%	61%	48%	37%	29%	24%	21%	19%	18%	17%	16%	15%	14%	12%	10%	6%	3%

#### 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°
4733	4709	4255	3596	2886	2251	1749	1378	1130	989	896	834	789	751	714	671	591	461	301	153
100%	99%	90%	76%	61%	48%	37%	29%	24%	21%	19%	18%	17%	16%	15%	14%	12%	10%	6%	3%

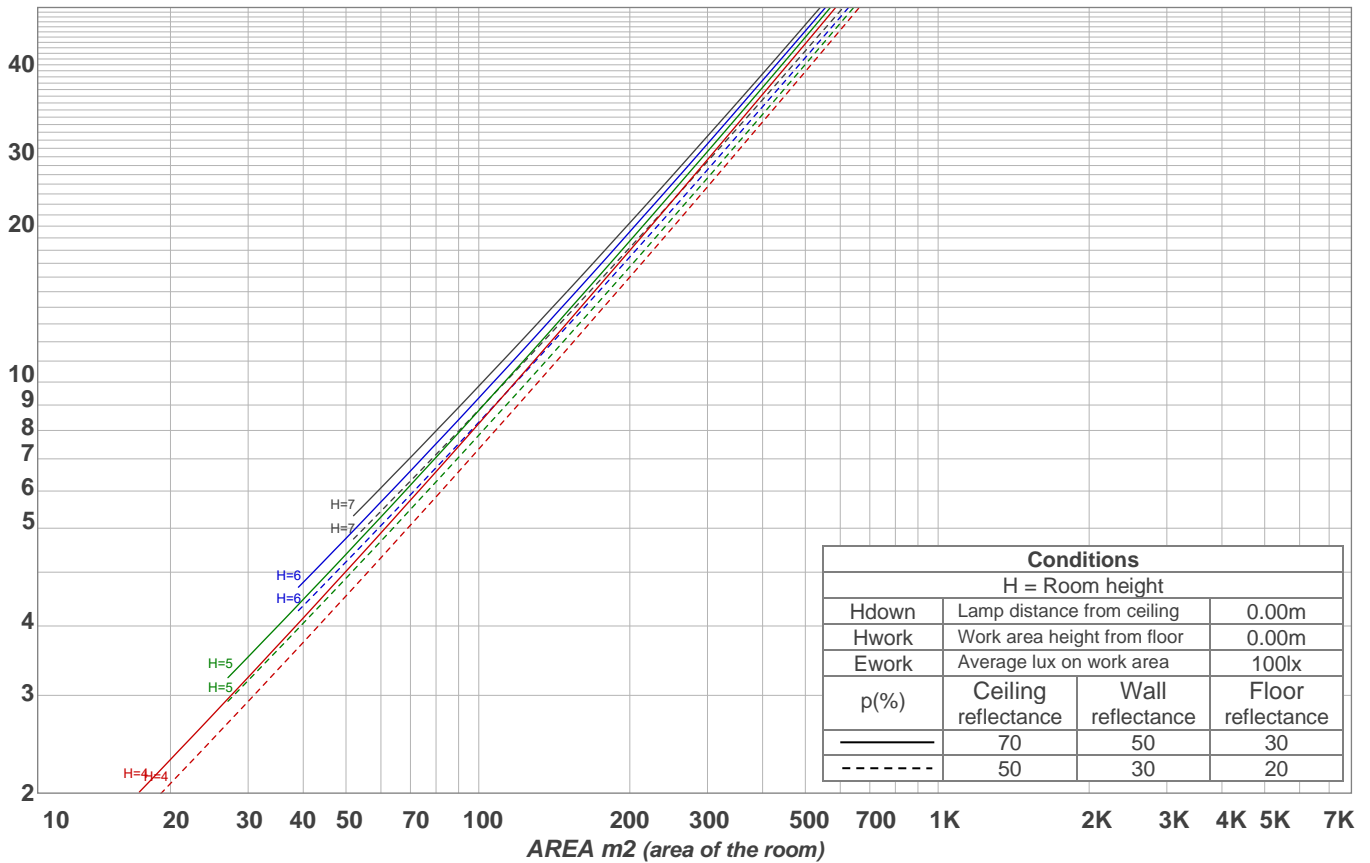
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4733	4709	4255	3596	2886	2251	1749	1378	1130	989	896	834	789	751	714	671	591	461	301	153
100%	99%	90%	76%	61%	48%	37%	29%	24%	21%	19%	18%	17%	16%	15%	14%	12%	10%	6%	3%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19.2°	67.6°	77.2°	99.3%	98.5%

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	50	30	10	0
Floor reflectance	20	20	20	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	100	100	
1	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	95	95	95	
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90	90	90	
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85	85	85	
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81	81	81	
5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77	77	77	
6	93	85	80	76	91	84	79	76	83	78	75	81	78	75	80	77	74	73	73	73	
7	89	81	76	72	88	80	75	72	79	75	72	78	74	71	77	73	71	70	70	70	
8	86	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	67	67	67	
9	82	74	69	66	81	74	69	65	73	68	65	72	68	65	71	68	65	64	64	64	
10	79	71	66	63	78	71	66	63	70	66	63	69	65	62	69	65	62	61	61	61	

## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
319 lm	362 lm	355 lm	225 lm	15.5 lm	4.87 lm	2.73 lm	2.45 lm	3.37 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