

Light efficiency:



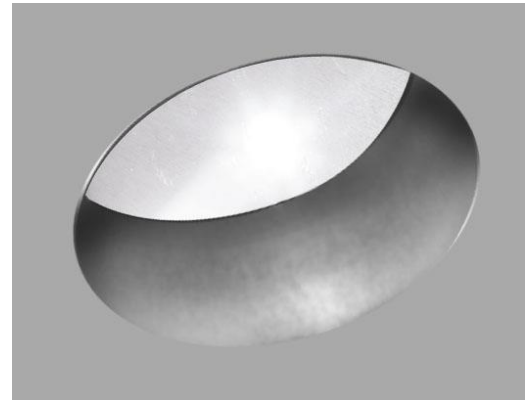
Output: 548 lm

Light quality:

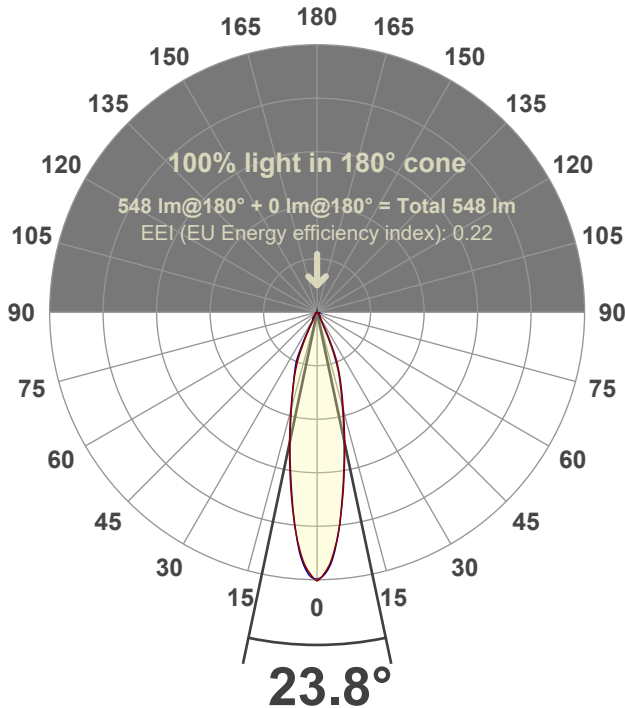


Peak: 2121 cd

Power: 10.2 W



Beam angle



Test number:

RV3D-RA-A9-AD3019-20°-Rev2A

Luminaire Model:

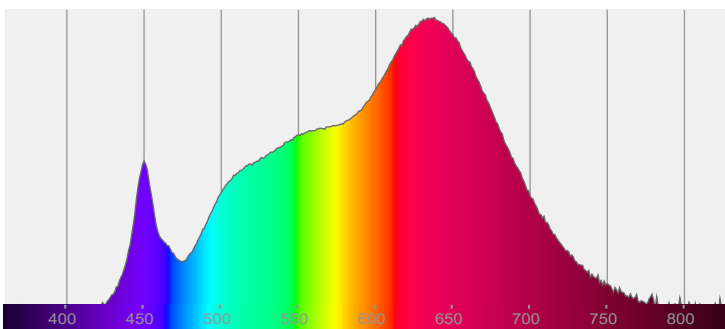
Rivet 3" Round Adjustable Downlight-A9-Ambient Dim 3000k to1900k-20°

Date and time:

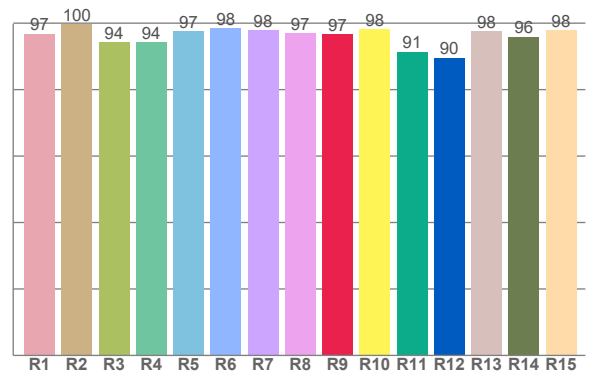
1/16/2023 3:38:53 PM

LUM: 548

Spectra



CRI: 97.0 (R1-R8)



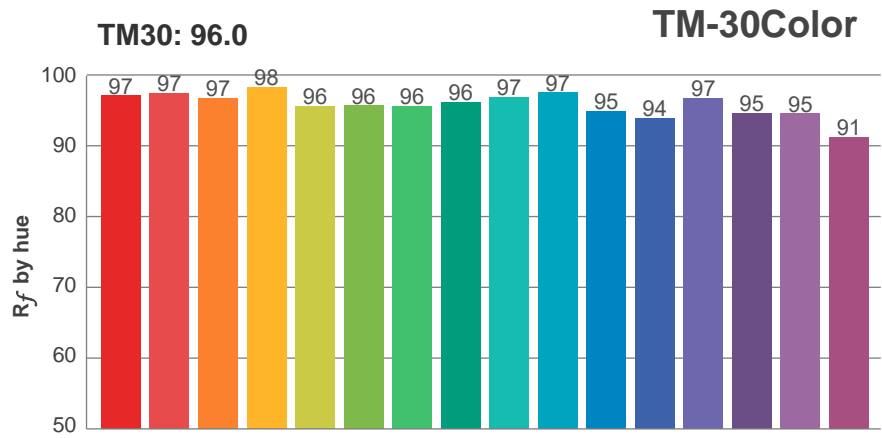
Color parameters

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 diviation from black body
CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
97.0	96.6	96.0	102.6	95.9	0.434	0.405	0.249	0.348	0.0007

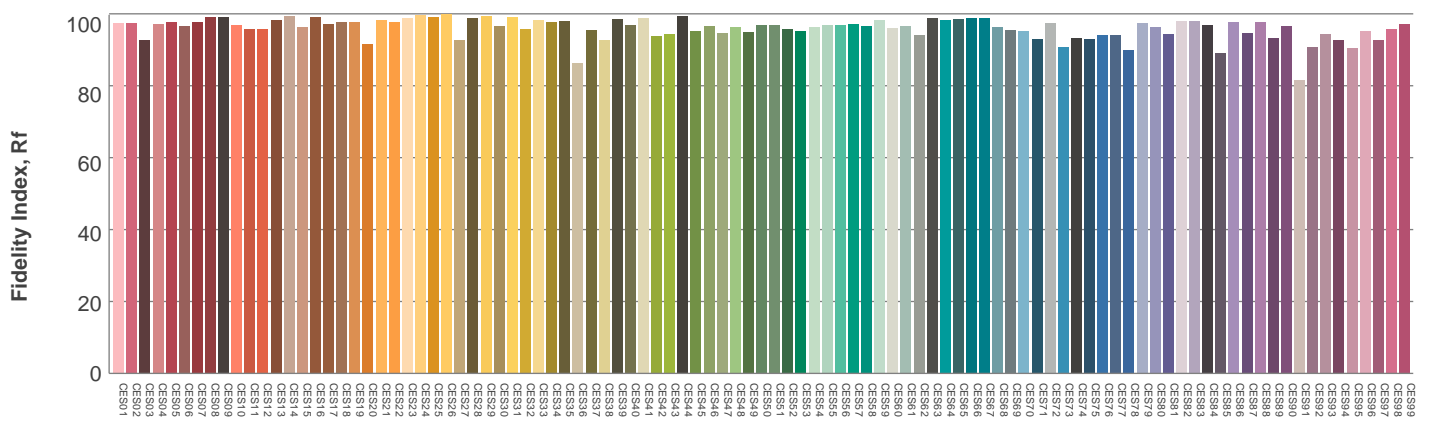
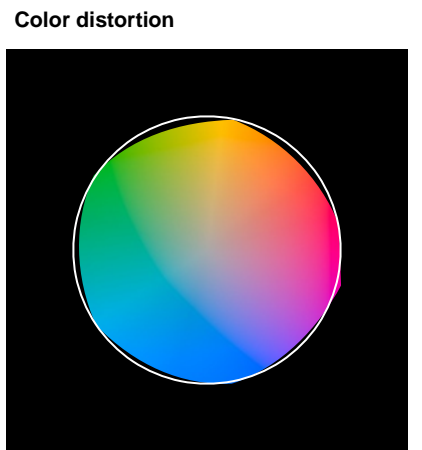
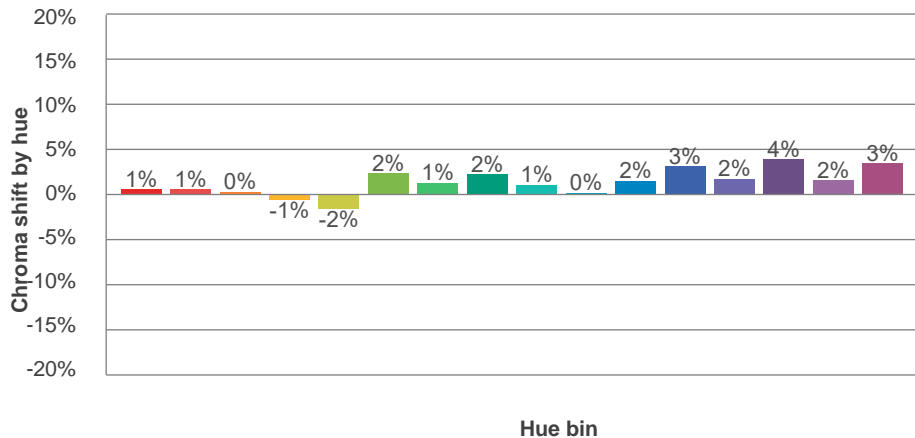
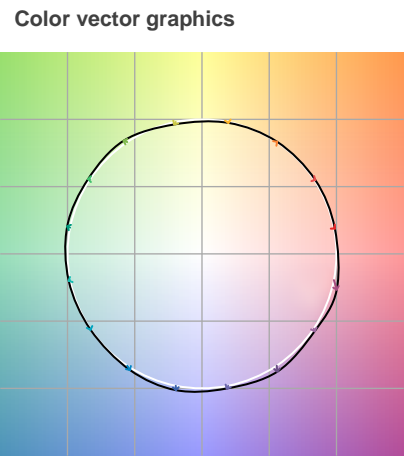
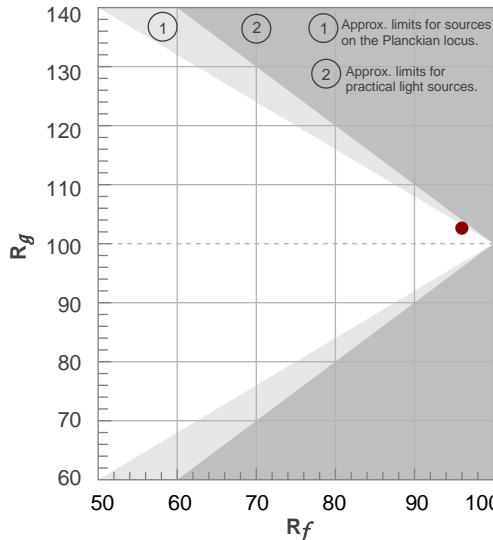
**$R_f$  96.0**  
Fidelity index  $R_f$

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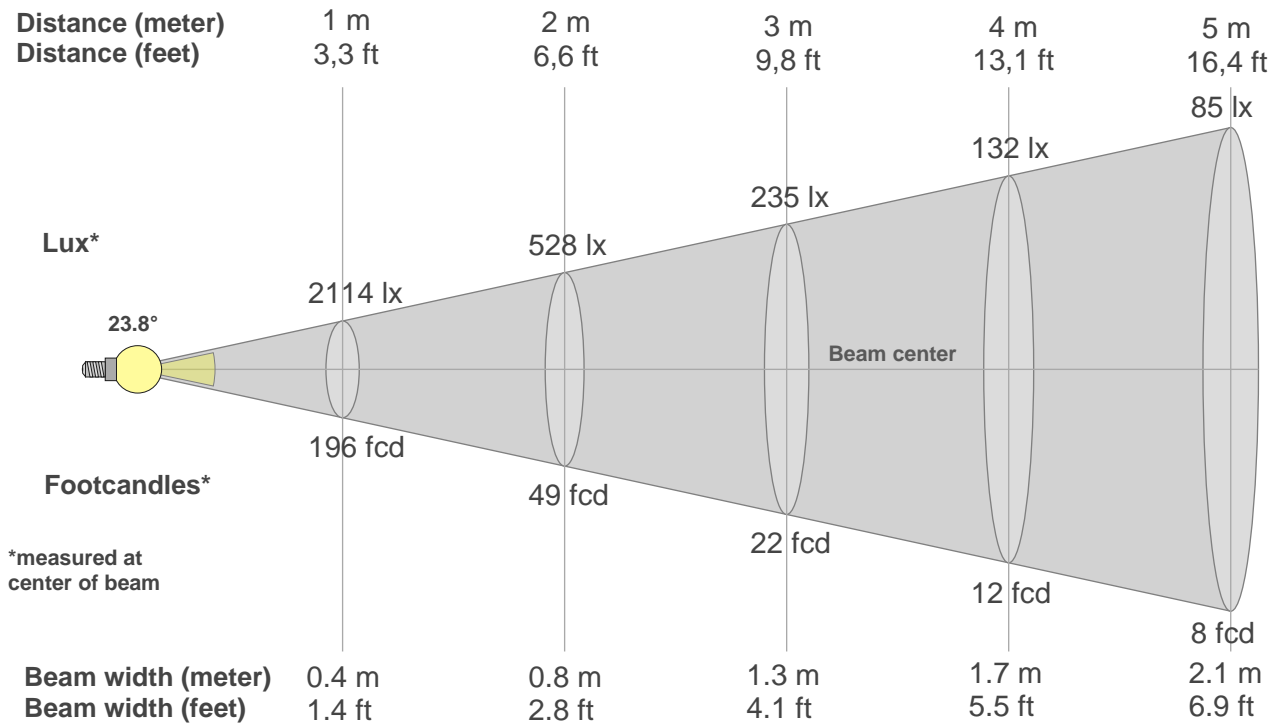
**$R_g$  102.6**  
Gammut index  $R_g$



Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	97	1%	-1%
2	97	1%	-1%
3	97	0%	0%
4	98	-1%	0%
5	96	-2%	1%
6	96	2%	2%
7	96	1%	1%
8	96	2%	0%
9	97	1%	0%
10	97	0%	1%
11	95	2%	3%
12	94	3%	1%
13	97	2%	-1%
14	95	4%	-2%
15	95	2%	-1%
16	91	3%	-6%



### 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
2114lx	528lx	235lx	132lx	85lx	59lx	43lx	33lx	26lx	21lx	17lx	15lx	13lx	11lx	9lx	8lx	7lx	7lx	6lx	5lx
196.4fcd	49.1fcd	21.8fcd	12.3fcd	7.9fcd	5.5fcd	4fcd	3.1fcd	2.4fcd	2fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd

#### 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°
2114	2049	1905	1705	1474	1255	1061	890	744	622	517	412	283	159	75	55	52	49	46	42
100%	97%	90%	81%	70%	59%	50%	42%	35%	29%	24%	19%	13%	8%	4%	3%	2%	2%	2%	2%

#### 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°
2114	2055	1919	1707	1459	1239	1040	865	716	597	489	358	216	103	51	49	46	44	41	38
100%	97%	91%	81%	69%	59%	49%	41%	34%	28%	23%	17%	10%	5%	2%	2%	2%	2%	2%	2%

#### 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°
2114	2049	1905	1705	1474	1255	1061	890	744	622	517	412	283	159	75	55	52	49	46	42
100%	97%	90%	81%	70%	59%	50%	42%	35%	29%	24%	19%	13%	8%	4%	3%	2%	2%	2%	2%

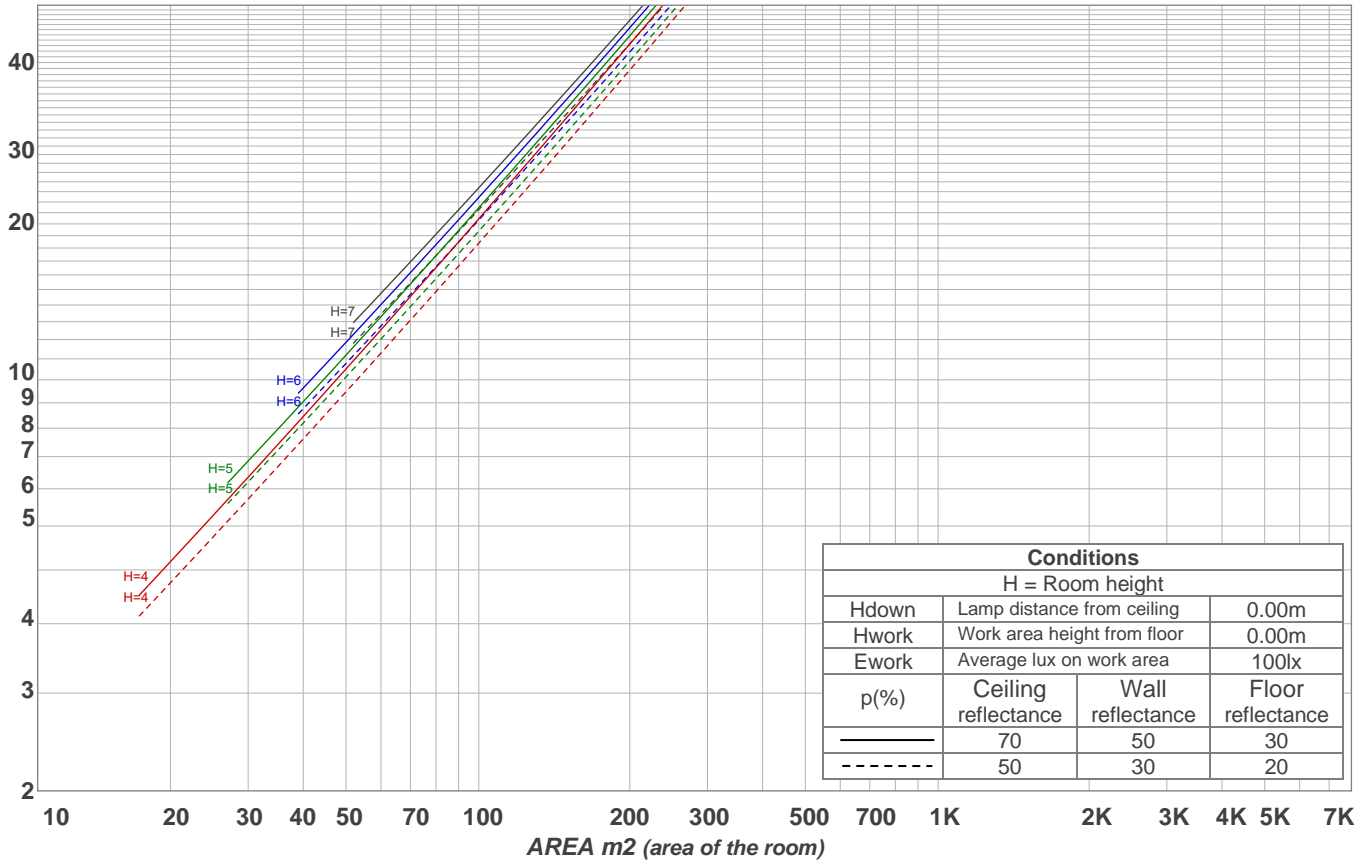
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2114	2069	1933	1697	1457	1236	1042	870	728	619	534	456	359	213	99	68	61	58	55	51
100%	98%	91%	80%	69%	58%	49%	41%	34%	29%	25%	22%	17%	10%	5%	3%	3%	3%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.8°	50.1°	63.8°	98.2%	95.2%

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	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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	86	
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83	
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79	
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	77	76	
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	
8	88	81	76	73	87	80	76	73	79	75	73	79	75	72	78	74	72	71	
9	86	78	73	70	85	78	73	70	77	73	70	76	72	70	75	72	70	68	
10	83	75	71	68	82	75	71	68	74	70	68	74	70	67	73	70	67	66	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
154 lm	223 lm	104 lm	30.1 lm	18.2 lm	8.80 lm	4.79 lm	2.97 lm	2.10 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