

Light efficiency:



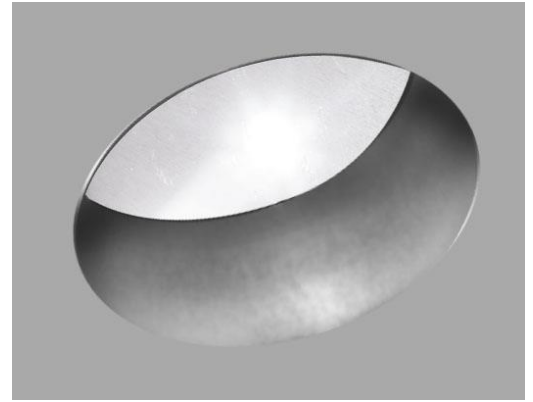
Output: 695 lm

Light quality:

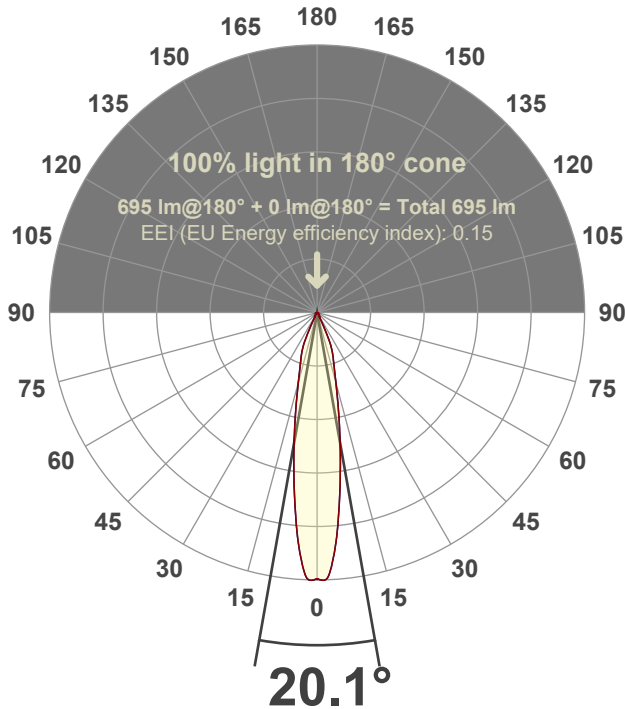


Peak: 3374 cd

Power: 8.5 W



Beam angle



Test number:

RV3D-RA-C7-30-20°-Rev2A

Luminaire Model:

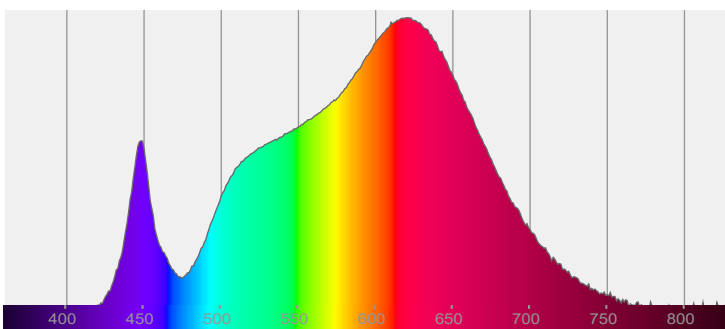
Rivet 3" Adjustable Round Downlight-C7-3000k-20°

Date and time:

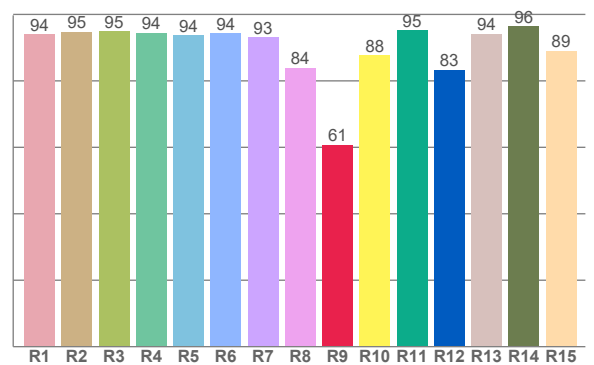
1/12/2023 3:09:10 PM

LUM: 695

Spectra



CRI: 92.9 (R1-R8)



Color parameters

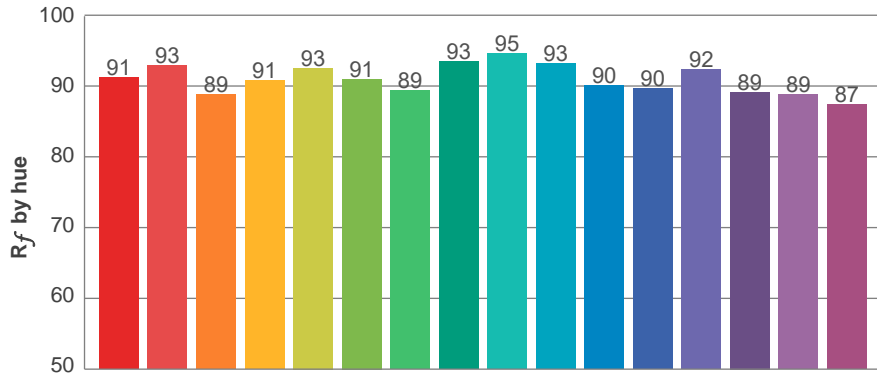
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.9	60.7	91.2	102.3	90.8	0.436	0.405	0.249	0.348	0.0006

R_f 91.2
Fidelity index R_f

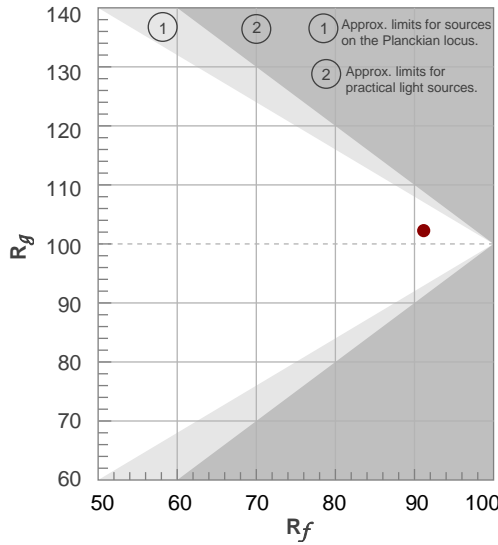
R_g 102.3
Gammut index R_g

TM30: 91.2

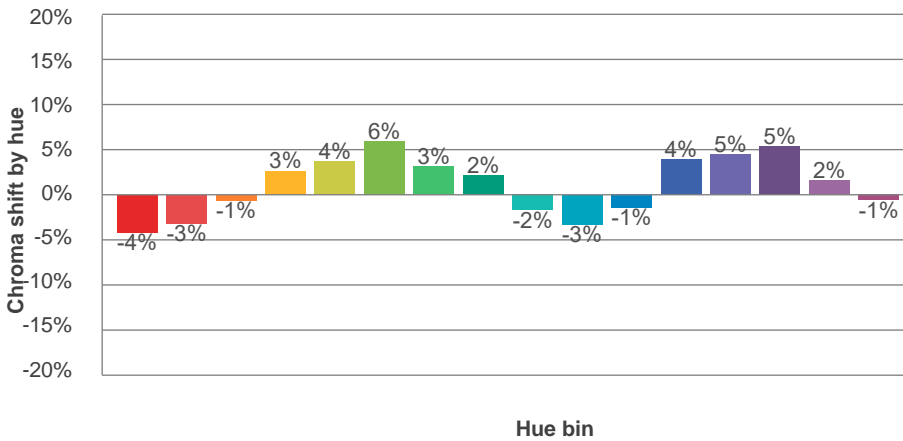
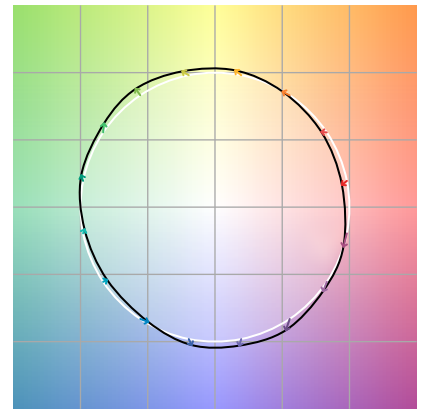
TM-30Color



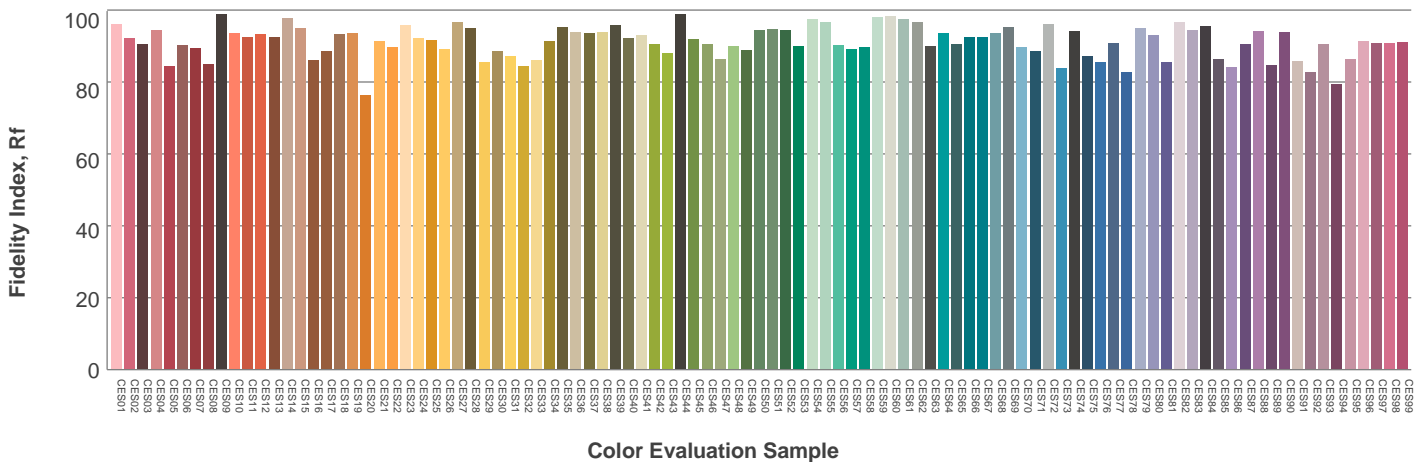
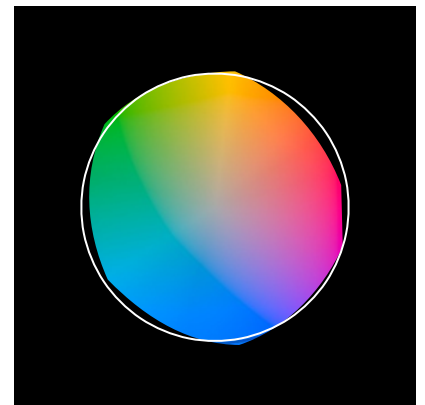
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	-2%
2	93	-3%	2%
3	89	-1%	6%
4	91	3%	5%
5	93	4%	4%
6	91	6%	0%
7	89	3%	-6%
8	93	2%	-4%
9	95	-2%	-3%
10	93	-3%	0%
11	90	-1%	6%
12	90	4%	3%
13	92	5%	-2%
14	89	5%	-7%
15	89	2%	-7%
16	87	-1%	-10%



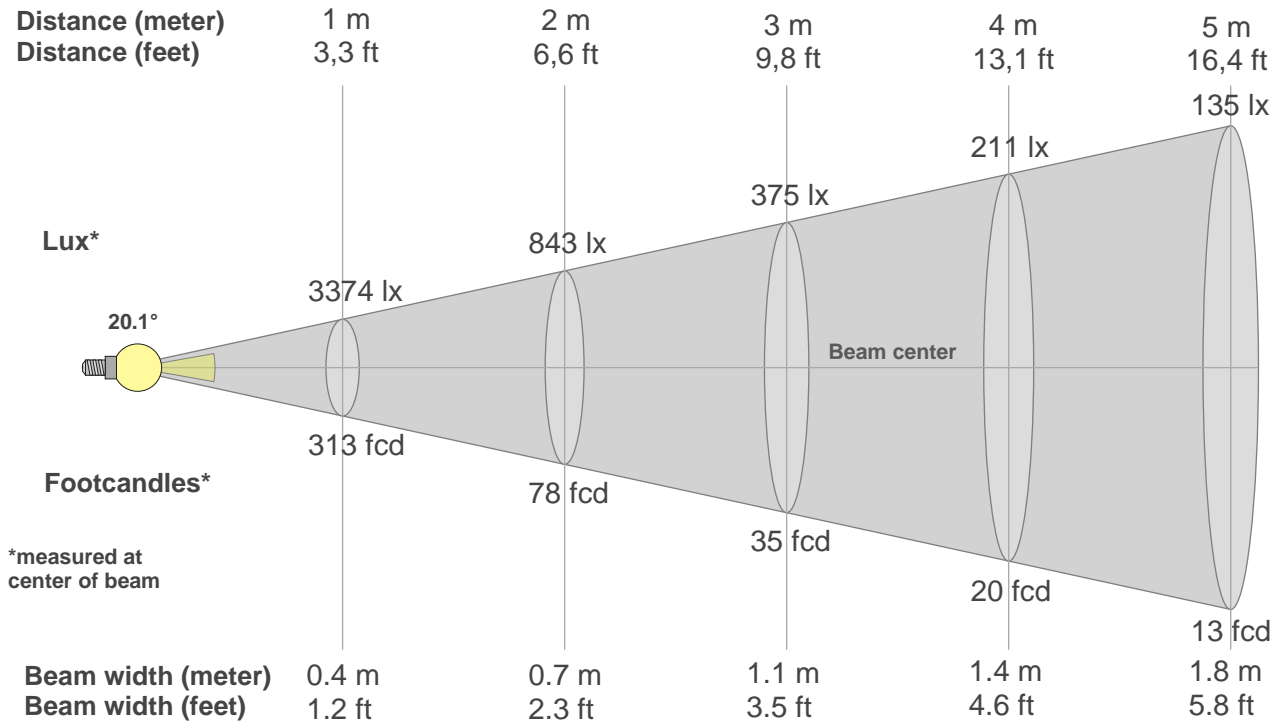
Color vector graphics



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
3374lx	843lx	375lx	211lx	135lx	94lx	69lx	53lx	42lx	34lx	28lx	23lx	20lx	17lx	15lx	13lx	12lx	10lx	9lx	8lx
313.5fcd	78.4fcd	34.8fcd	19.6fcd	12.5fcd	8.7fcd	6.4fcd	4.9fcd	3.9fcd	3.1fcd	2.6fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	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°
3374	3354	3048	2596	2120	1692	1330	1040	837	696	591	487	350	172	76	64	61	58	55	51
100%	99%	90%	77%	63%	50%	39%	31%	25%	21%	18%	14%	10%	5%	2%	2%	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°
3374	3354	3048	2596	2120	1692	1330	1040	837	696	591	487	350	172	76	64	61	58	55	51
100%	99%	90%	77%	63%	50%	39%	31%	25%	21%	18%	14%	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°
3374	3354	3048	2596	2120	1692	1330	1040	837	696	591	487	350	172	76	64	61	58	55	51
100%	99%	90%	77%	63%	50%	39%	31%	25%	21%	18%	14%	10%	5%	2%	2%	2%	2%	2%	2%

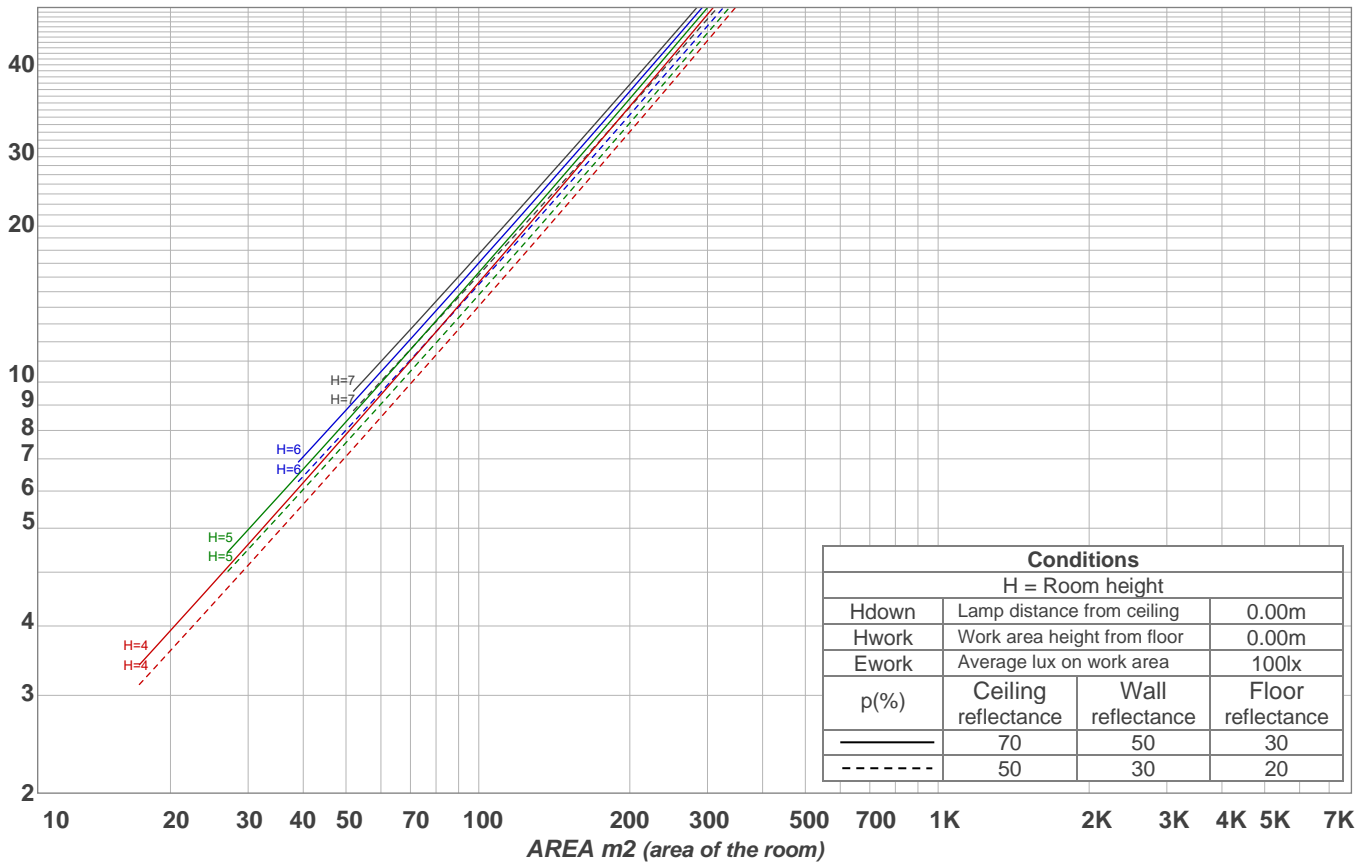
Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3374	3354	3048	2596	2120	1692	1330	1040	837	696	591	487	350	172	76	64	61	58	55	51
100%	99%	90%	77%	63%	50%	39%	31%	25%	21%	18%	14%	10%	5%	2%	2%	2%	2%	2%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20.1°	48.3°	55.7°	98.6%	96.0%

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	110	108	112	110	108	106	106	105	103	102	101	100	99	98	97	96	96	96	
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91	91	91	
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	88	88	88	
4	103	97	92	89	101	96	92	88	94	90	87	92	89	86	90	88	86	84	84	84	
5	99	93	88	85	98	92	88	84	90	87	84	89	85	83	87	84	82	81	81	81	
6	96	89	85	81	95	88	84	81	87	83	80	86	82	80	85	82	79	78	78	78	
7	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79	77	76	76	76	
8	90	83	78	75	89	82	78	75	82	78	75	81	77	75	80	77	74	73	73	73	
9	88	80	76	73	87	80	76	73	79	75	73	78	75	72	78	74	72	71	71	71	
10	85	78	74	71	84	77	73	71	77	73	70	76	73	70	75	72	70	69	69	69	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
231 lm	268 lm	121 lm	34.8 lm	20.7 lm	9.38 lm	4.66 lm	2.99 lm	2.33 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