

Light efficiency:



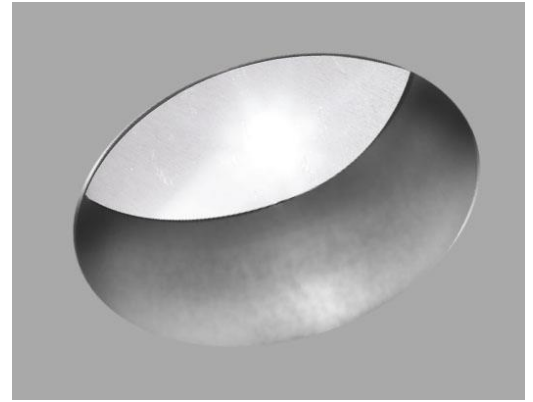
Output: 644 lm

Light quality:

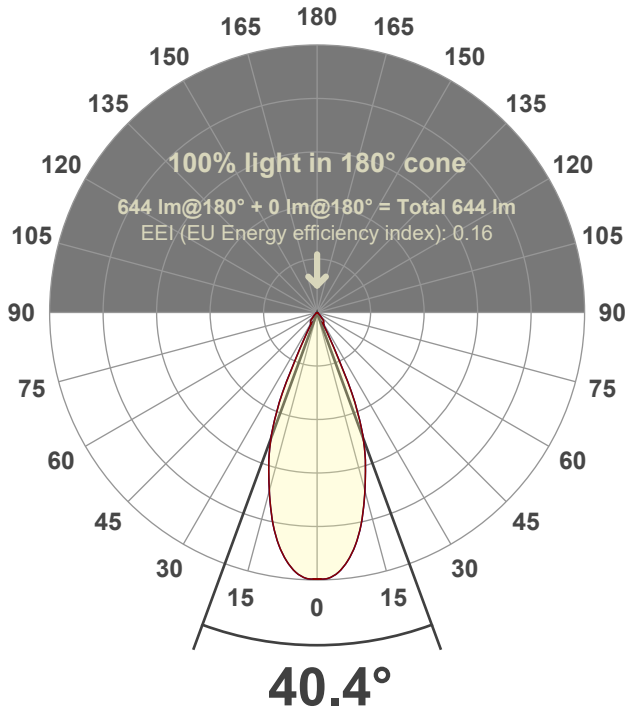


Peak: 1462 cd

Power: 8.5 W



Beam angle



Test number:

RV3D-RA-C7-30-40°-Rev2A

Luminaire Model:

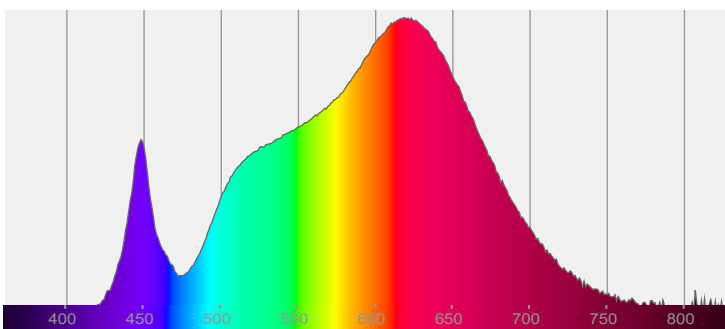
Rivet 3" Round Adjustable Downlight-C8-3000k-40°

Date and time:

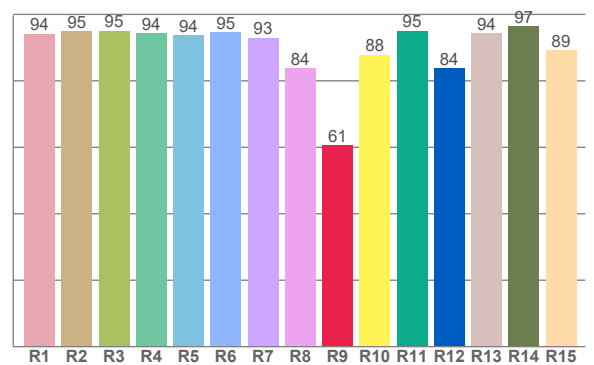
1/12/2023 3:21:04 PM

LUM: 644

Spectra



CRI: 92.9 (R1-R8)



Color parameters

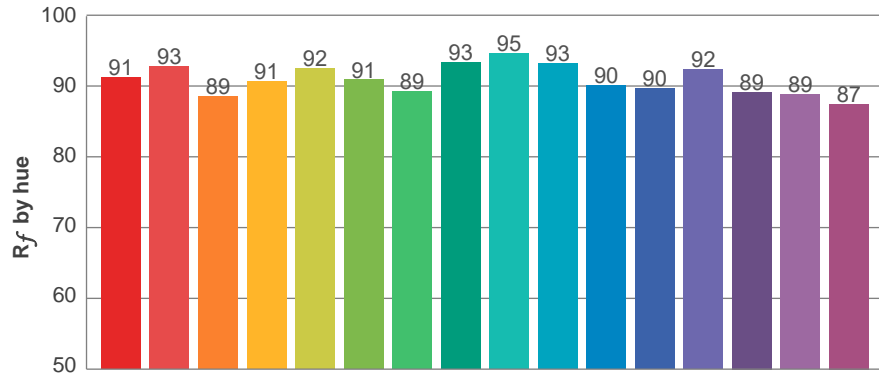
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
	92.9	60.7	91.1	102.3	90.7	0.435	0.404	0.249	0.347	0.0003

**$R_f$  91.1**  
Fidelity index  $R_f$

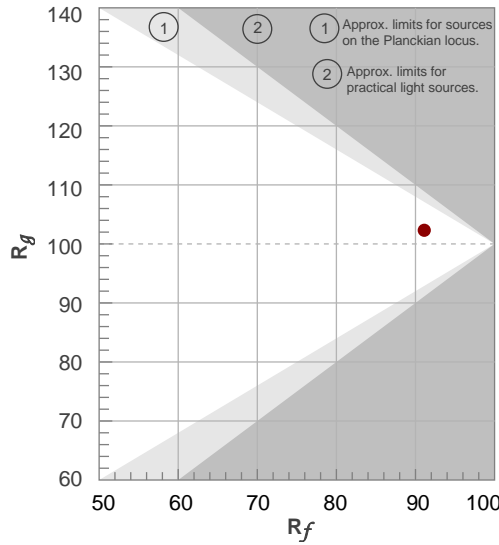
**$R_g$  102.3**  
Gammut index  $R_g$

TM30: 91.1

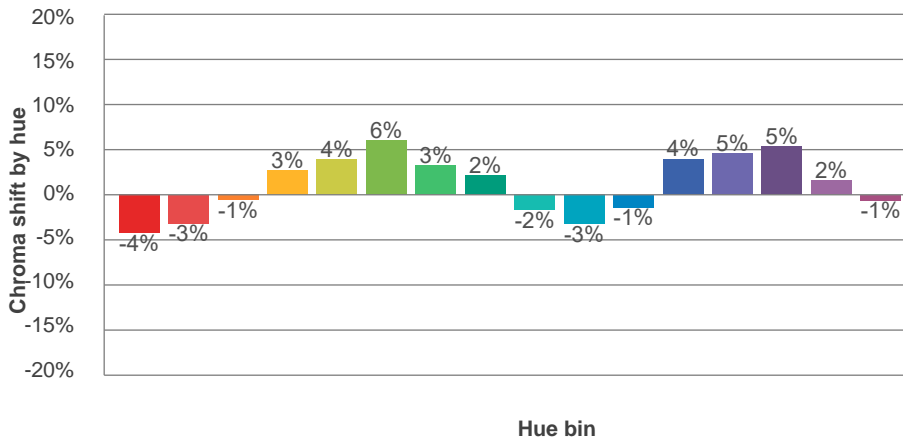
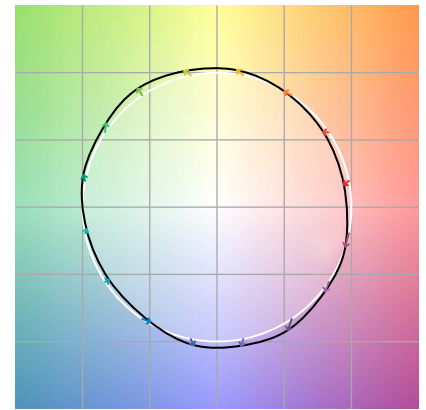
TM-30Color



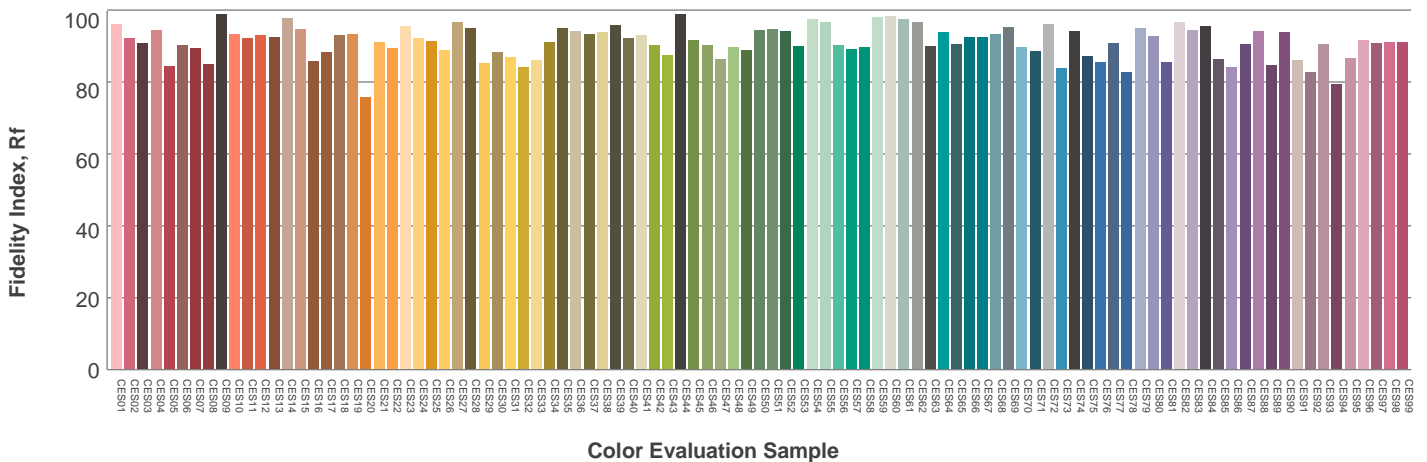
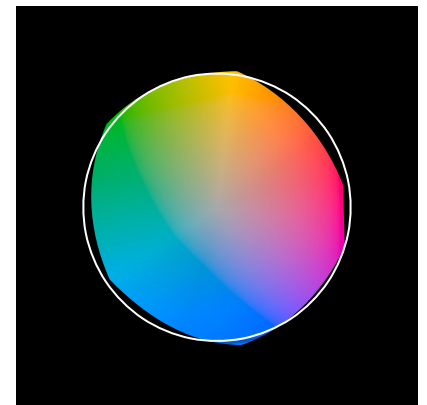
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	-2%
2	93	-3%	3%
3	89	-1%	6%
4	91	3%	5%
5	92	4%	4%
6	91	6%	0%
7	89	3%	-6%
8	93	2%	-4%
9	95	-2%	-3%
10	93	-3%	0%
11	90	-1%	6%
12	90	4%	3%
13	92	5%	-2%
14	89	5%	-7%
15	89	2%	-7%
16	87	-1%	-10%



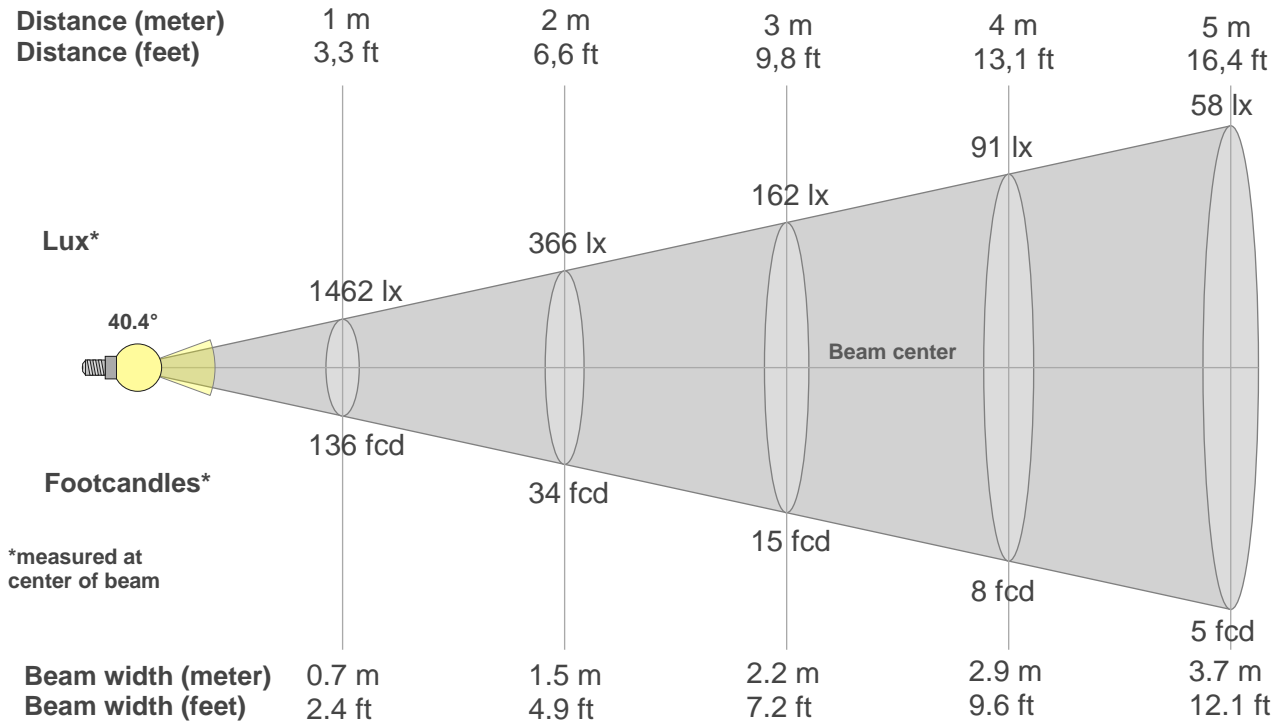
Color vector graphics



Color distortion



### Beam details



\*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
1462lx	366lx	162lx	91lx	58lx	41lx	30lx	23lx	18lx	15lx	12lx	10lx	9lx	7lx	6lx	6lx	5lx	5lx	4lx	4lx
135.9fcd	34fcd	15.1fcd	8.5fcd	5.4fcd	3.8fcd	2.8fcd	2.1fcd	1.7fcd	1.4fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd

#### 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°
1462	1460	1439	1398	1340	1265	1175	1069	962	858	743	601	417	201	87	72	68	64	61	58
100%	100%	98%	96%	92%	87%	80%	73%	66%	59%	51%	41%	29%	14%	6%	5%	5%	4%	4%	4%

#### 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°
1462	1460	1439	1398	1340	1265	1175	1069	962	858	743	601	417	201	87	72	68	64	61	58
100%	100%	98%	96%	92%	87%	80%	73%	66%	59%	51%	41%	29%	14%	6%	5%	5%	4%	4%	4%

#### 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°
1462	1460	1439	1398	1340	1265	1175	1069	962	858	743	601	417	201	87	72	68	64	61	58
100%	100%	98%	96%	92%	87%	80%	73%	66%	59%	51%	41%	29%	14%	6%	5%	5%	4%	4%	4%

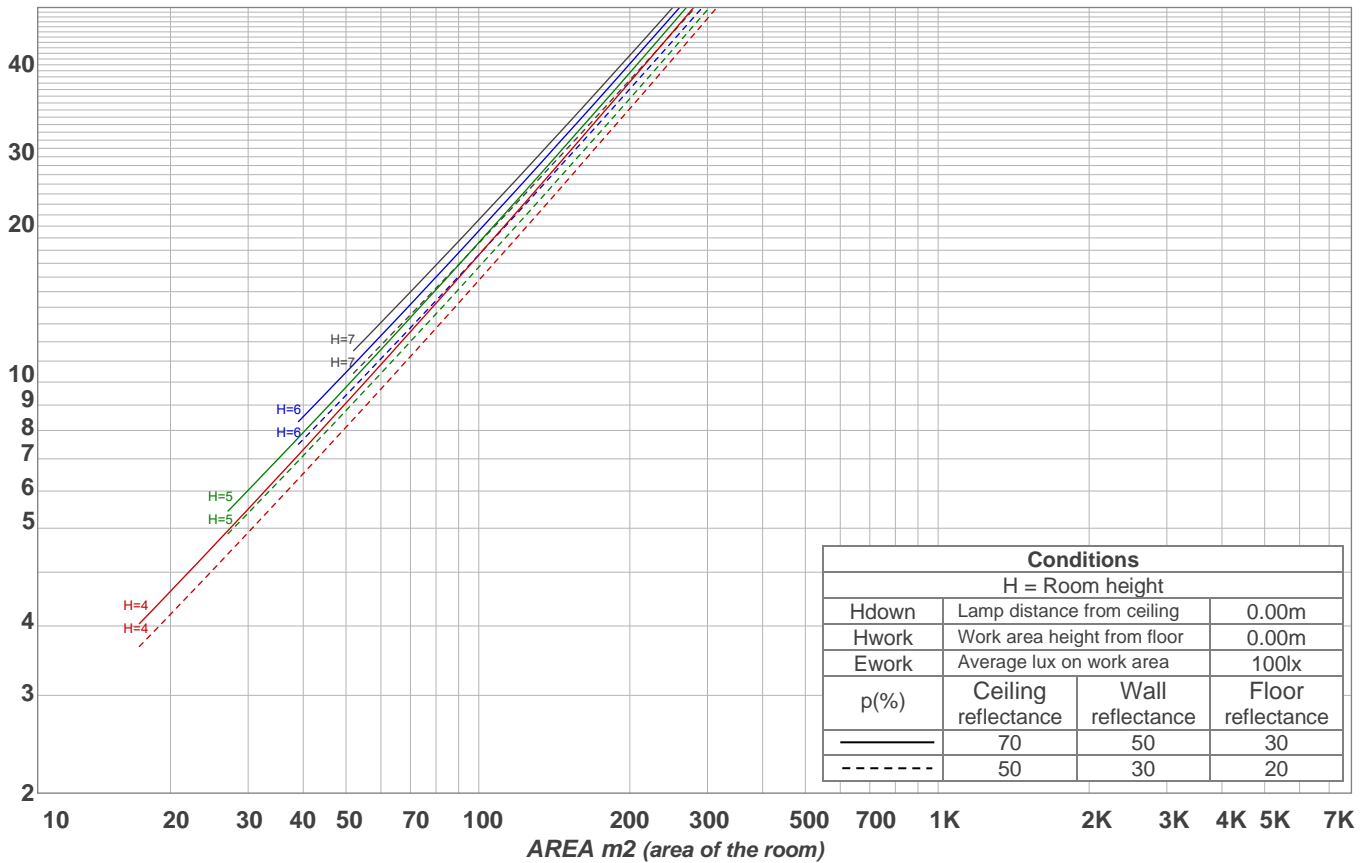
#### Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1462	1460	1439	1398	1340	1265	1175	1069	962	858	743	601	417	201	87	72	68	64	61	58
100%	100%	98%	96%	92%	87%	80%	73%	66%	59%	51%	41%	29%	14%	6%	5%	5%	4%	4%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40.4°	53.9°	85.3°	98.1%	94.8%

## Light planning Luminaire budgetary diagram

LAMPS (number of lamps)  
50



## 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	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94	
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89	
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85	
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81	
5	96	89	84	81	95	88	84	80	87	83	80	85	82	79	84	81	78	77	
6	93	85	80	76	91	84	80	76	83	79	76	82	78	75	80	77	75	73	
7	89	81	76	73	88	81	76	73	80	75	72	79	75	72	77	74	72	70	
8	86	78	73	70	85	78	73	69	77	72	69	76	72	69	75	71	69	67	
9	83	75	70	67	82	74	70	66	74	69	66	73	69	66	72	68	66	65	
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	70	66	63	62	

## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
131 lm	280 lm	146 lm	39.2 lm	23.9 lm	11.5 lm	6.24 lm	3.78 lm	2.47 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