

PHOTOMETRIC TEST REPORT

DECOR PRO ROUND FLUSH
FIXED - TEXTURED WHITE -
4002915

astro

DECOR PRO ROUND FLUSH FIXED -

astro

LIGHT EFFICIENCY:

107 Lumen/Watt

LIGHT QUALITY:

CRI: 96.3

COLOR TEMPERATURE:

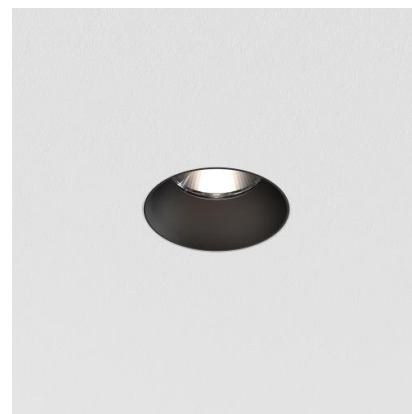
2699 K

OUTPUT: 1256 lm

PEAK: 2374 cd

POWER: 11.7 W

PF: 0.95



Tracking number: [n/a](#)

Product name:

Decor Pro Round Flush Fixed - Textured White - 4002915

Item number:

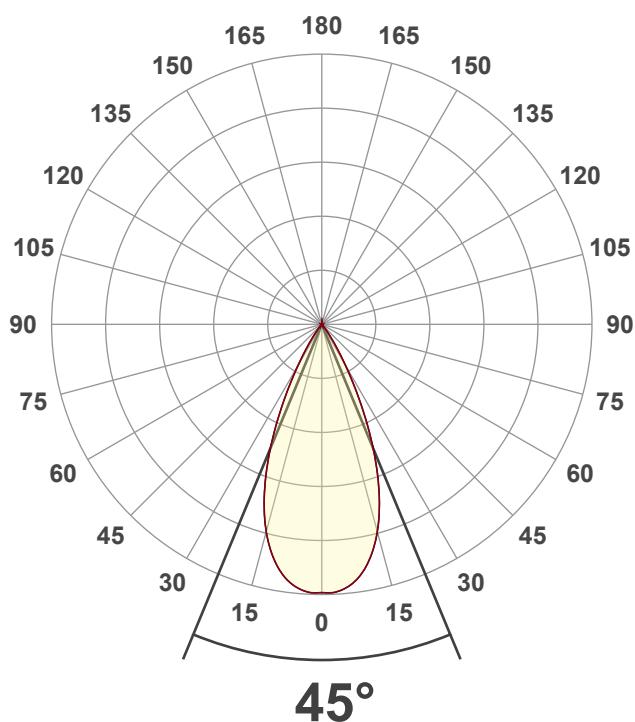
DRFF-TW-HE27G1-50G1-X-D1

Date and time:

31/01/2025 12:25:16

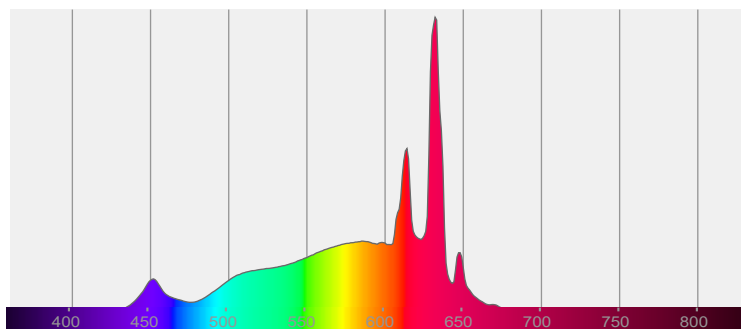
Description:

IP20 LED Downlight

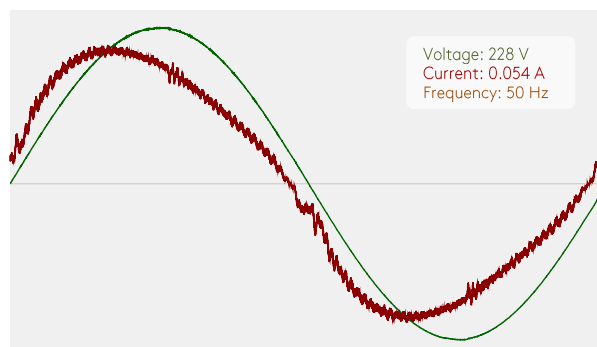


CIE 1931
x: 0.461
y: 0.412

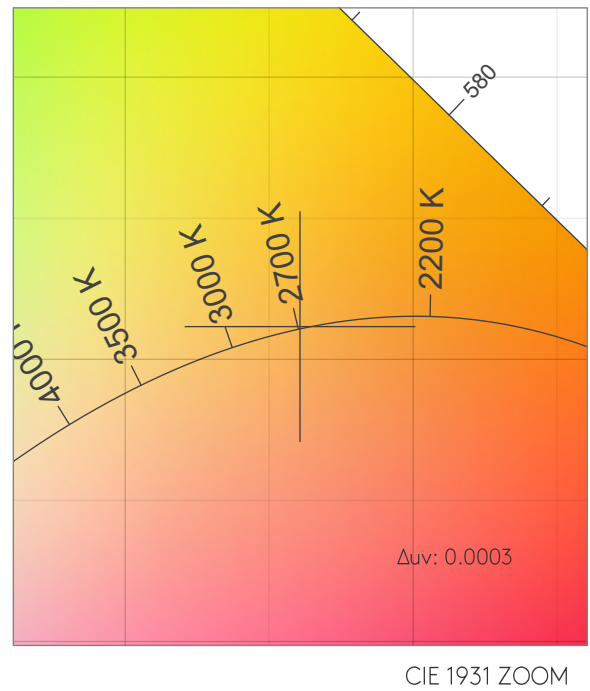
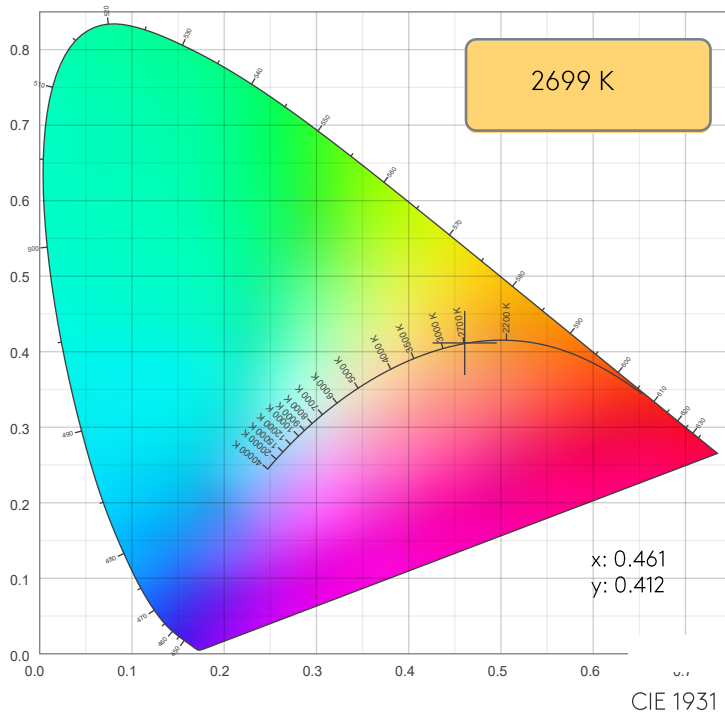
SPECTRA



POWER

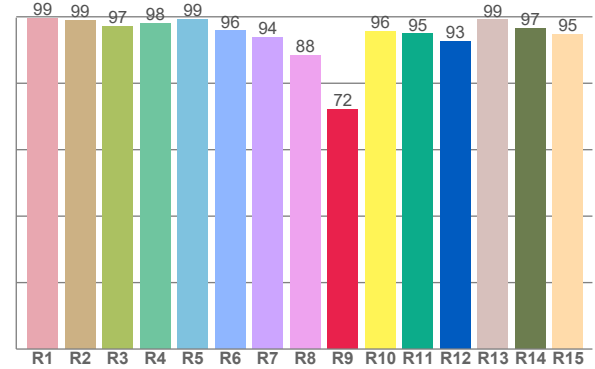
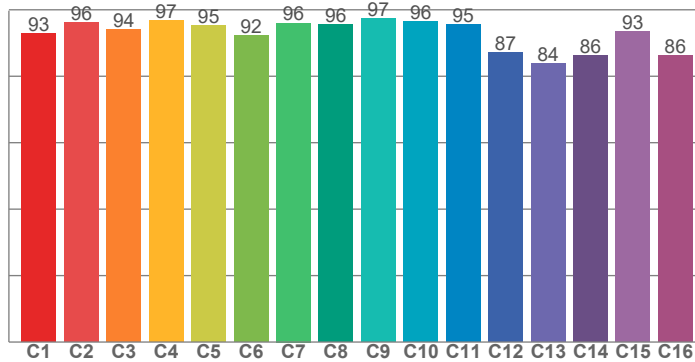


COLOR DETAILS



TM30: 93.4

CRI: 96.3 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.5	99.0	97.0	97.9	99.2	95.7	93.9	88.5	72.1	95.7	94.9	92.5	99.1	96.5	94.7

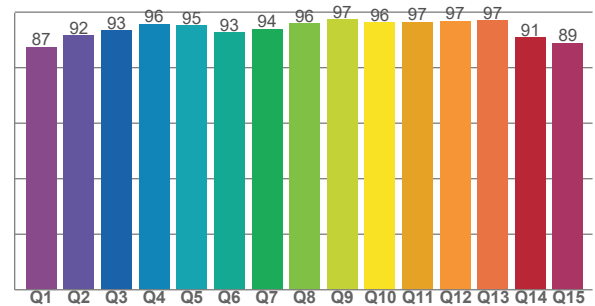
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.7	96.1	93.9	96.8	95.3	92.3	96.0	95.7	97.3	96.4	95.4	87.0	83.9	86.3	93.5	86.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.4	91.5	93.5	95.8	95.1	92.6	93.9	96.0	97.4	96.2	96.5	96.8	97.0	90.9	88.9

CQS: 92.9



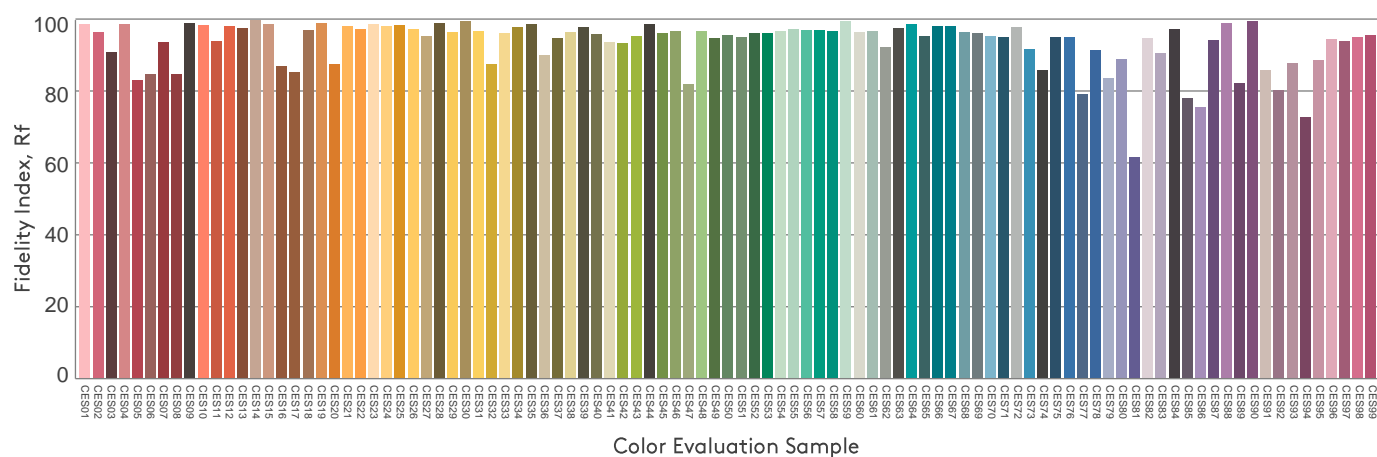
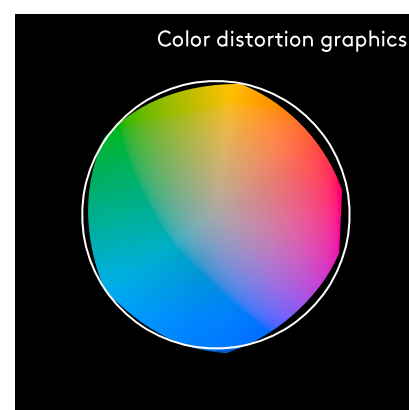
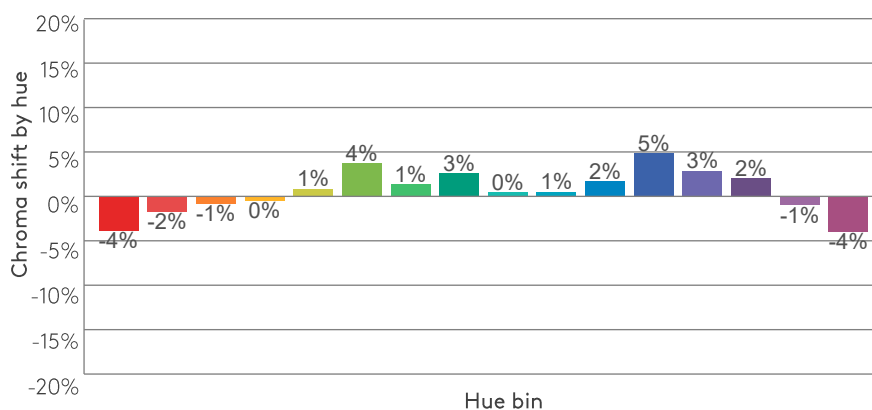
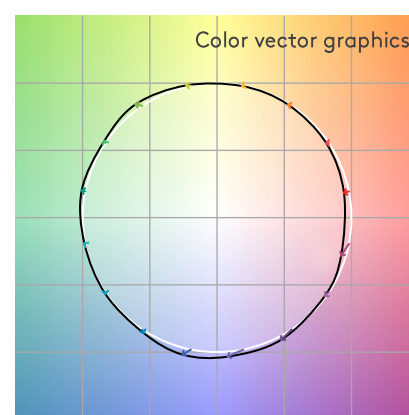
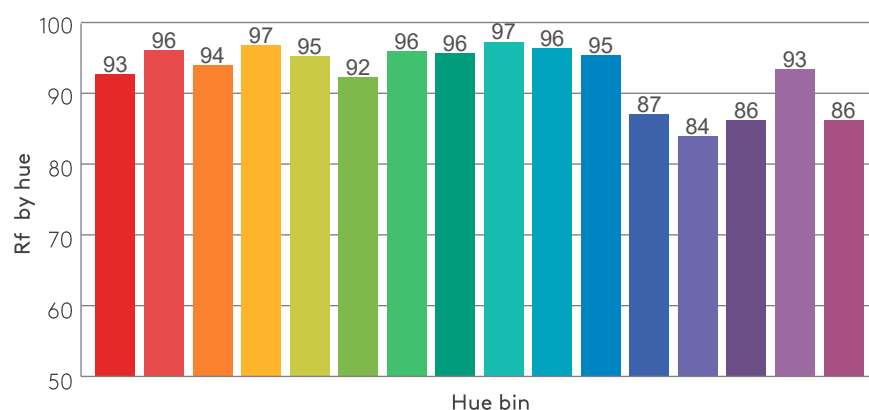
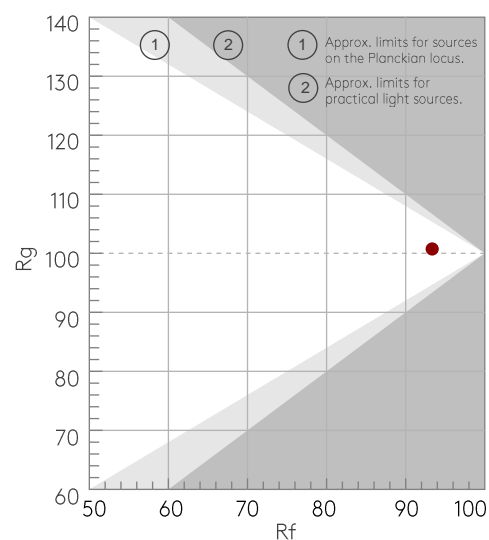
COLOR PARAMETERS

Color temperature	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
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2699 K	96.3	72.1	93.4	100.7	92.9	0.461	0.412	0.263	0.352	0.0003

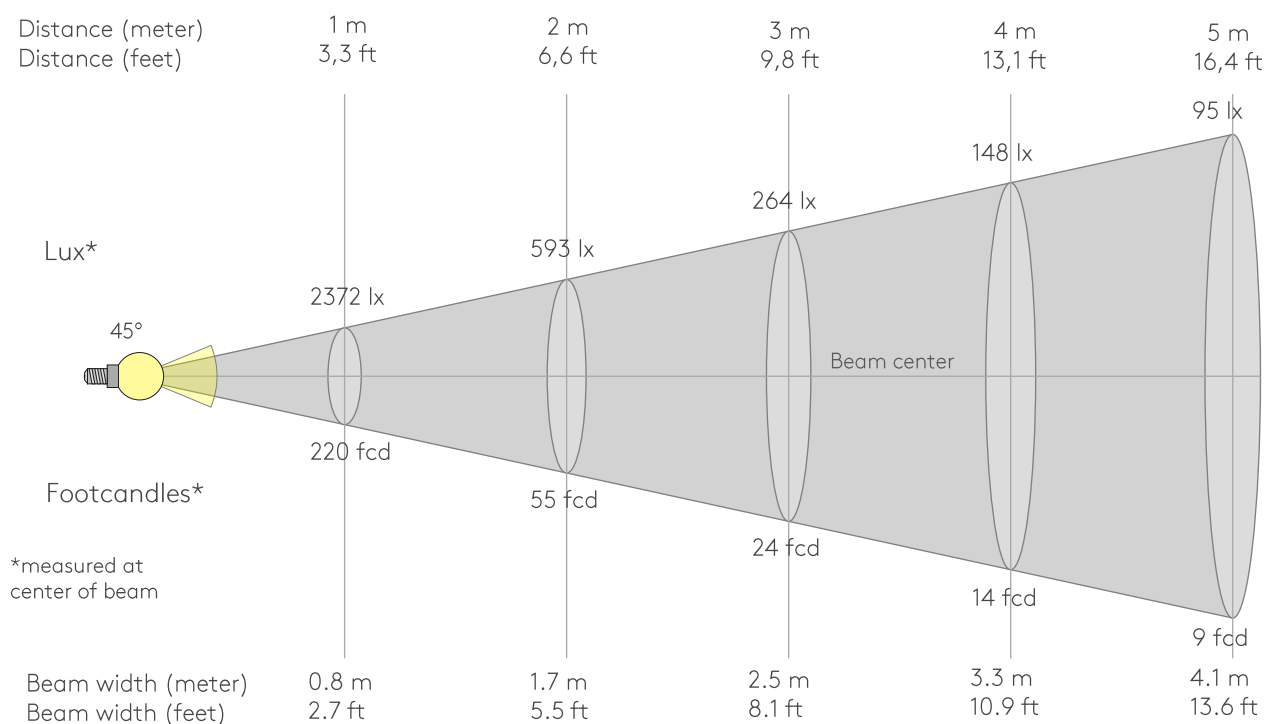
Rf 93.4
Fidelity index Rf

Rg 100.7
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	0%
2	96	-2%	1%
3	94	-1%	3%
4	97	0%	1%
5	95	1%	3%
6	92	4%	4%
7	96	1%	-1%
8	96	3%	0%
9	97	0%	0%
10	96	1%	1%
11	95	2%	2%
12	87	5%	-5%
13	84	3%	-12%
14	86	2%	-11%
15	93	-1%	-4%
16	86	-4%	-10%



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
2372lx	593lx	264lx	148lx	95lx	66lx	48lx	37lx	29lx	24lx	20lx	16lx	14lx	12lx	11lx	9lx	8lx	7lx	7lx	6lx
220.3fcd	55.1fcd	24.5fcd	13.8fcd	8.8fcd	6.1fcd	4.5fcd	3.4fcd	2.7fcd	2.2fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd

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°
2372	2374	2357	2323	2269	2191	2090	1966	1819	1646	1452	1241	1020	800	596	421	282	176	101	53
100%	100%	99%	98%	96%	92%	88%	83%	77%	69%	61%	52%	43%	34%	25%	18%	12%	7%	4%	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°
2372	2374	2357	2323	2269	2191	2090	1966	1819	1646	1452	1241	1020	800	596	421	282	176	101	53
100%	100%	99%	98%	96%	92%	88%	83%	77%	69%	61%	52%	43%	34%	25%	18%	12%	7%	4%	2%

Intensities in 180° c-plane

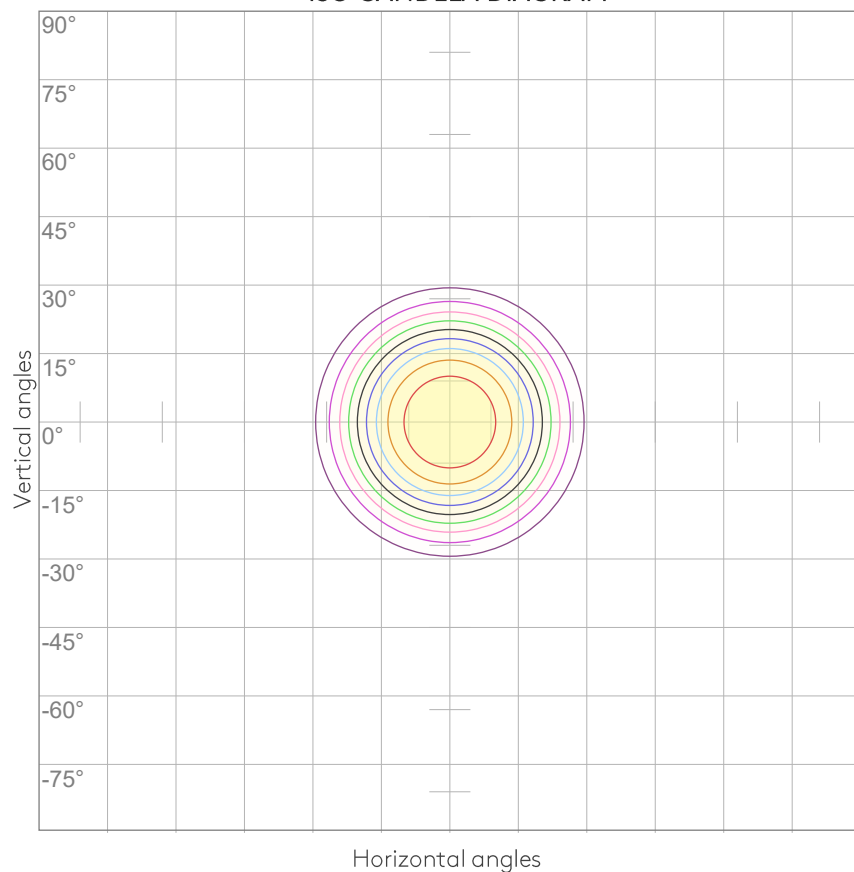
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2372	2374	2357	2323	2269	2191	2090	1966	1819	1646	1452	1241	1020	800	596	421	282	176	101	53
100%	100%	99%	98%	96%	92%	88%	83%	77%	69%	61%	52%	43%	34%	25%	18%	12%	7%	4%	2%

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°
2372	2374	2357	2323	2269	2191	2090	1966	1819	1646	1452	1241	1020	800	596	421	282	176	101	53
100%	100%	99%	98%	96%	92%	88%	83%	77%	69%	61%	52%	43%	34%	25%	18%	12%	7%	4%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
45°	65.5°	75.4°	99.8%	99.5%

ISO CANDELA DIAGRAM



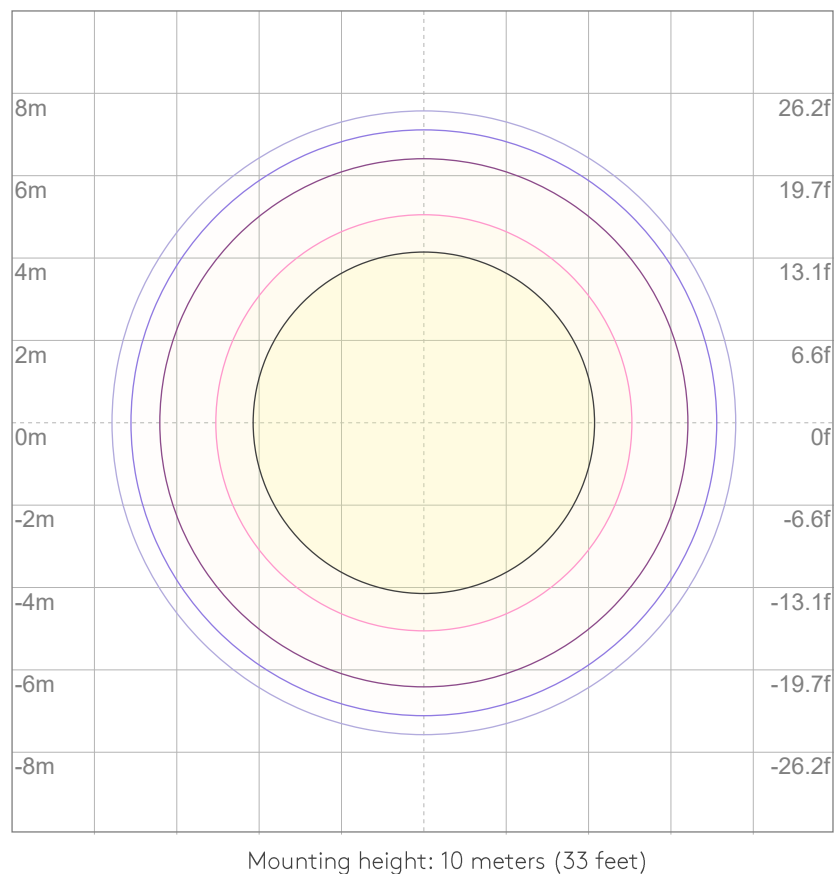
10%	237 cd
20%	474 cd
30%	712 cd
40%	949 cd
50%	1186 cd
60%	1423 cd
70%	1660 cd
80%	1897 cd
90%	2135 cd

Conditions:

Number of c-planes: 8

Candela at center: 2372 cd

ISO LUX DIAGRAM



3%	0.712 lx
5%	1.19 lx
10%	2.37 lx
30%	7.12 lx
50%	{LUX_10M50} lx

Conditions:

Number of c-planes: 8

Lux at center: 23.7 lx

Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.

UGR

GLARE EVALUATION ACCORDING TO 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	17.5	18.0	17.6	18.2	18.4	17.5	18.0	17.6	18.2	18.4
	3H	17.2	17.8	17.5	18.0	18.2	17.2	17.8	17.5	18.0	18.2
	4H	17.1	17.7	17.5	17.9	18.2	17.1	17.7	17.5	17.9	18.2
	6H	17.1	17.6	17.4	17.9	18.2	17.1	17.6	17.4	17.9	18.2
	8H	17.0	17.5	17.4	17.9	18.2	17.0	17.5	17.4	17.9	18.2
	12H	17.0	17.5	17.3	17.8	18.2	17.0	17.5	17.3	17.8	18.2
4H	2H	17.1	17.7	17.5	17.9	18.2	17.1	17.7	17.5	17.9	18.2
	3H	17.0	17.5	17.3	17.8	18.2	17.0	17.5	17.3	17.8	18.2
	4H	16.8	17.3	17.2	17.7	18.2	16.8	17.3	17.2	17.7	18.2
	6H	16.7	17.2	17.2	17.6	17.9	16.7	17.2	17.2	17.6	17.9
	8H	16.7	17.1	17.2	17.5	17.8	16.7	17.1	17.2	17.5	17.8
	12H	16.6	17.0	17.1	17.4	17.8	16.6	17.0	17.1	17.4	17.8
8H	4H	16.7	17.1	17.2	17.5	17.8	16.7	17.1	17.2	17.5	17.8
	6H	16.6	16.9	17.1	17.4	17.9	16.6	16.9	17.1	17.4	17.9
	8H	16.6	16.8	17.1	17.4	18.0	16.6	16.8	17.1	17.4	18.0
	12H	16.5	16.7	17.1	17.2	17.8	16.5	16.7	17.1	17.2	17.8
12H	4H	16.6	17.0	17.1	17.4	17.8	16.6	17.0	17.1	17.4	17.8
	6H	16.6	16.8	17.1	17.4	18.0	16.6	16.8	17.1	17.4	18.0
	8H	16.5	16.7	17.1	17.2	17.8	16.5	16.7	17.1	17.2	17.8
Variation of the observer position for the luminaire distance S											
S = 1.0H		6.6 / -18.8					6.6 / -18.8				
S = 1.5H		9.4 / -20.6					9.4 / -20.6				
S = 2.0H		11.4 / -21.3					11.4 / -21.3				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1256 lm total luminous flux											

DECOR PRO ROUND FLUSH FIXED - LIGHT PLANNING

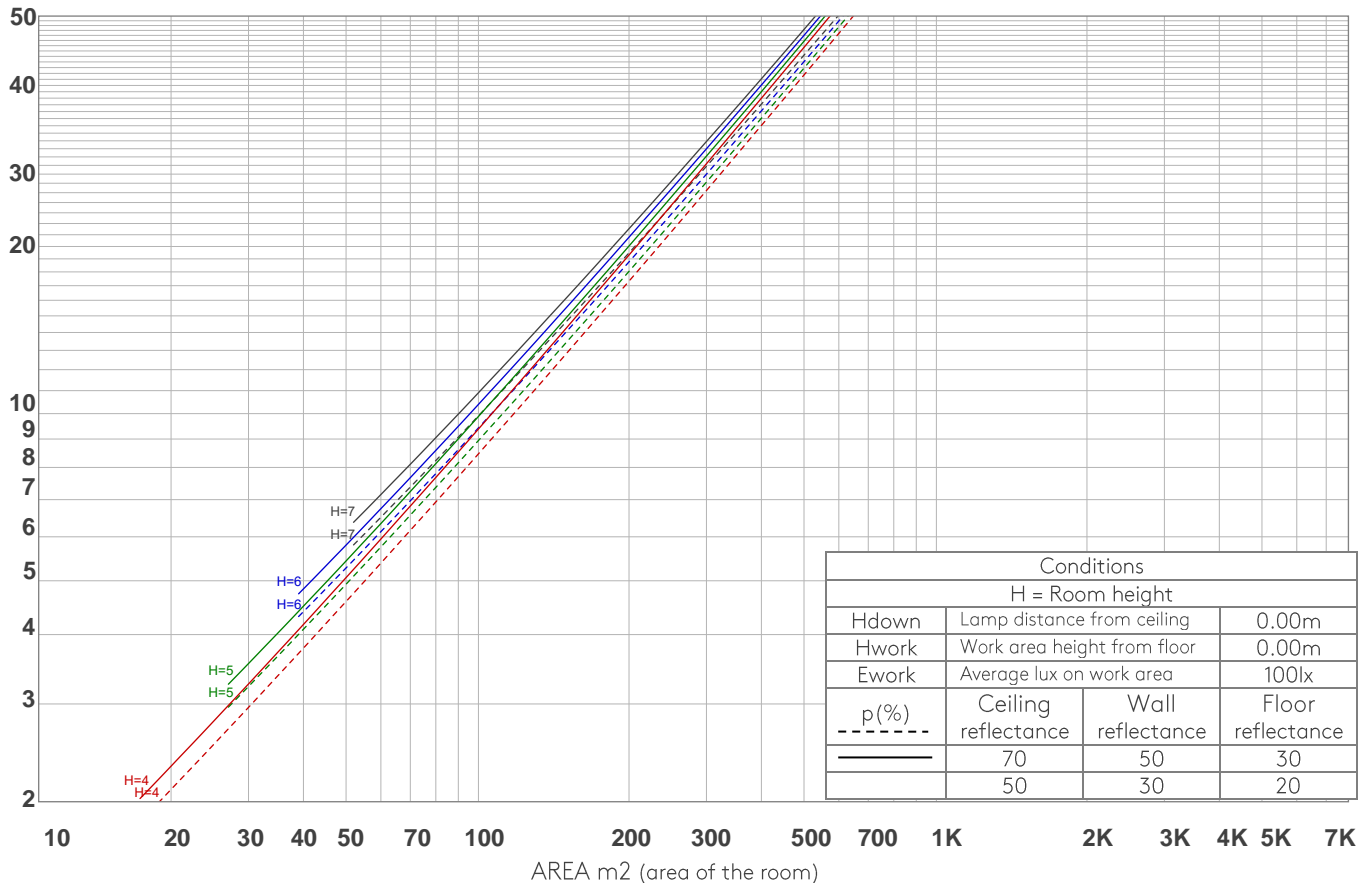
astro

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

LAMPS (number of lamps)

LUMINAIRE BUDGETARY DIAGRAM



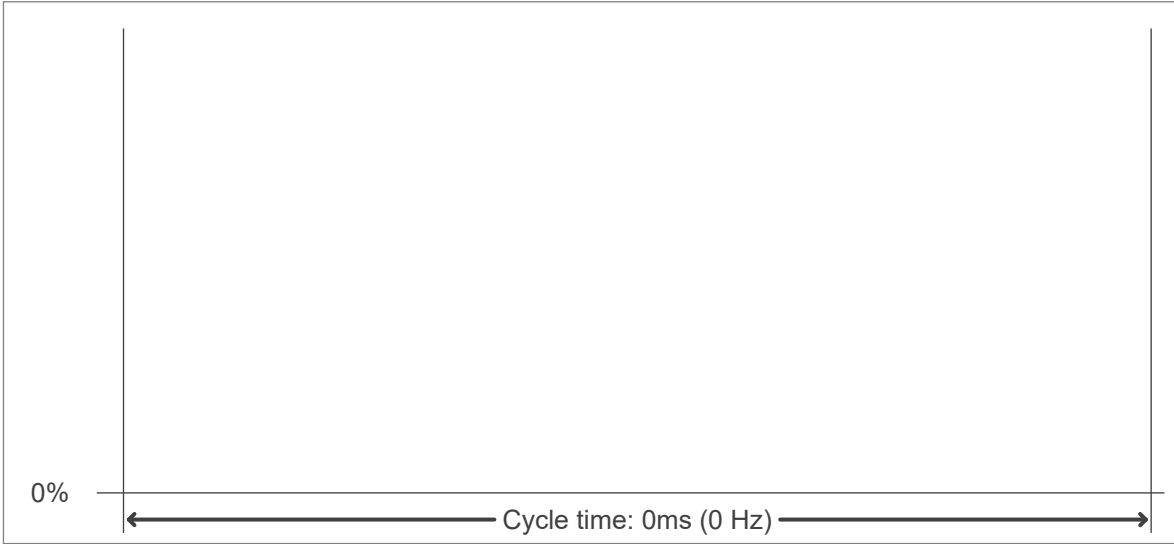
ZONAL LUMEN SUMMARY

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
219 lm	519 lm	409 lm	98.2 lm	6.39 lm	1.34 lm	0.255 lm	0.136 lm	0.127 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.112 lm	0.116 lm	0.124 lm	0.149 lm	0.273 lm	0.510 lm	0.582 lm	0.397 lm	0.113 lm

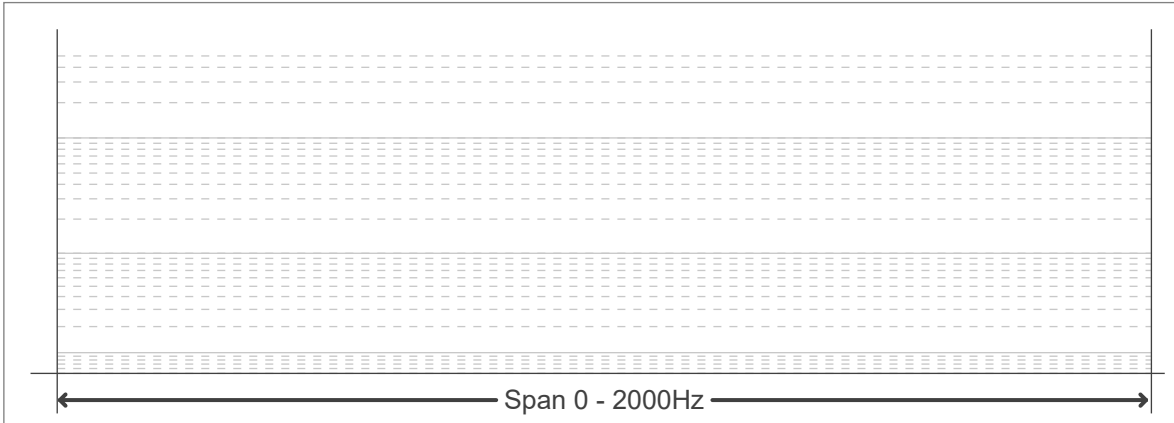
FLICKER CURVE (COMPLETE SAMPLED)



FLICKER FRAME (FRAME OF ONE FLICKER)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER)



FLICKER RESULTS:

Flicker frequency:	n/a Hz
Flicker index:	n/a
Flicker percentage:	n/a %
SVM: (Visual flicker)	n/a

FLICKER CONDITIONS:

Sample rate:	n/a samples/second
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