

PHOTOMETRIC TEST REPORT

DECOR PRO ROUND FLUSH
FIXED - TEXTURED WHITE -
4002979

astro

DECOR PRO ROUND FLUSH FIXED -

astro

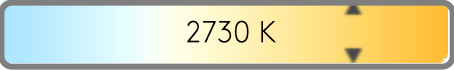
LIGHT EFFICIENCY:



LIGHT QUALITY:



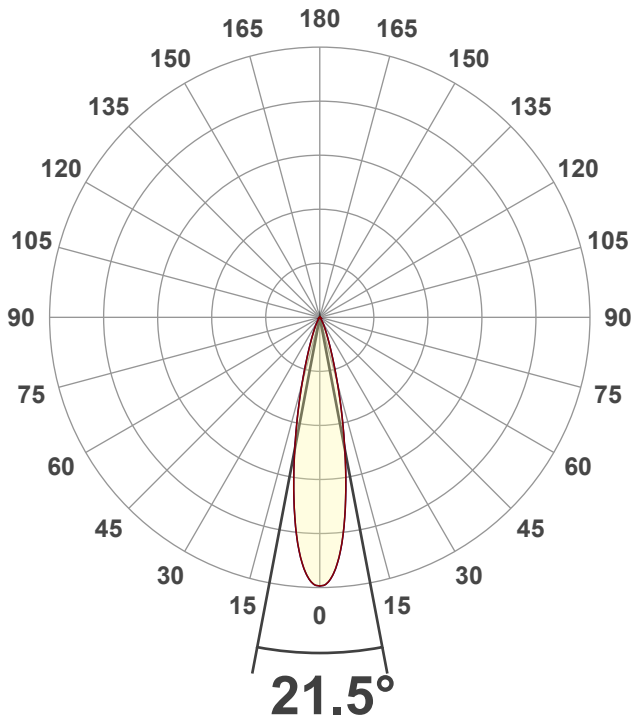
COLOR TEMPERATURE:



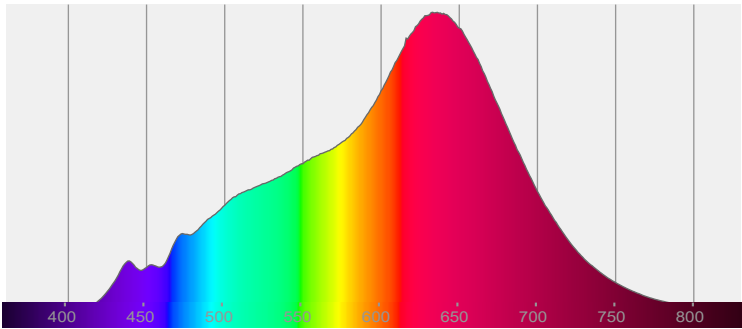
OUTPUT: 845 lm
PEAK: 4904 cd
POWER: 11.7 W
PF: 0.95



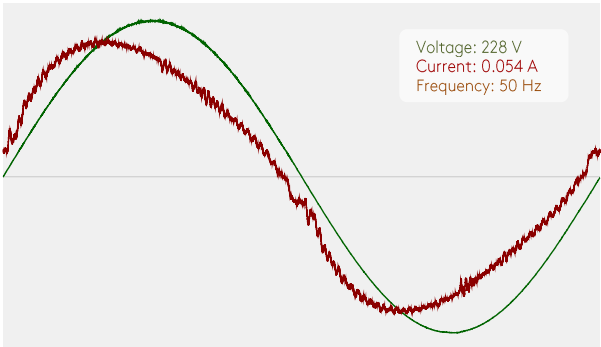
Tracking number: [n/a](#)
Product name:
Decor Pro Round Flush Fixed - Textured White - 4002979
Item number:
DRFF-TW-HQ27G1-15G1-X-D1
Date and time:
31/01/2025 15:26:02
Description:
IP20 LED Downlight



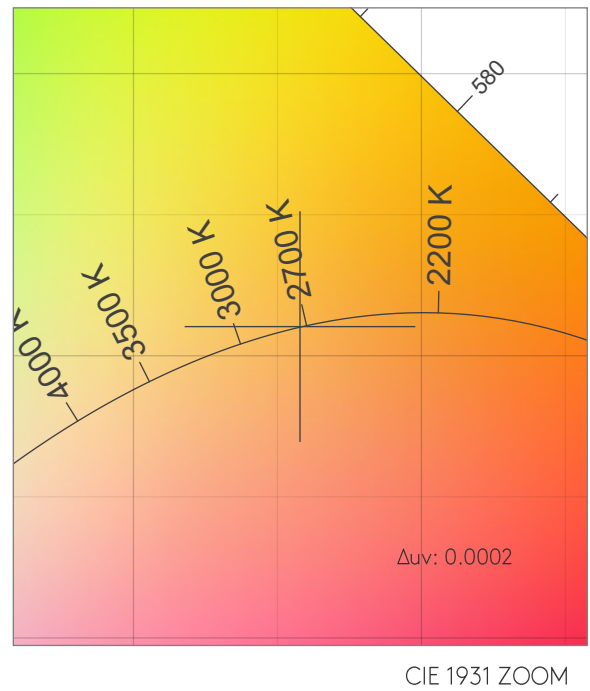
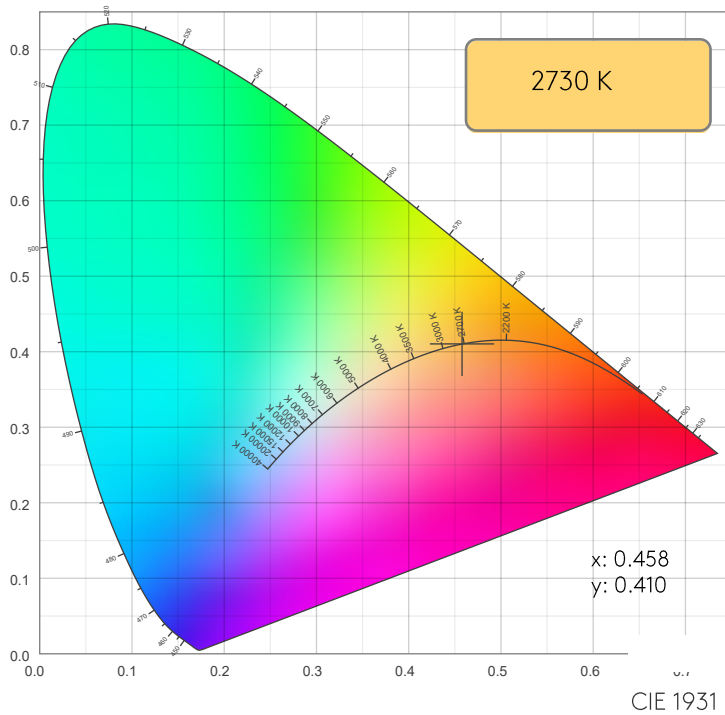
SPECTRA



POWER

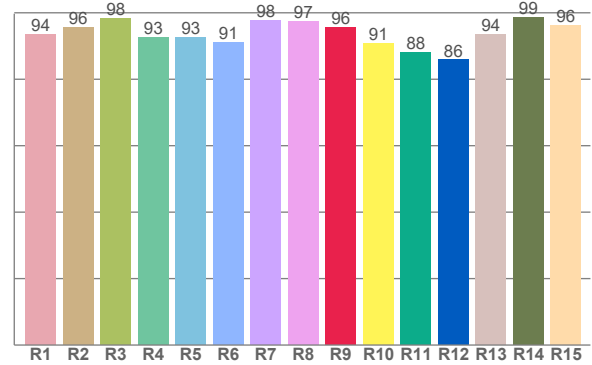
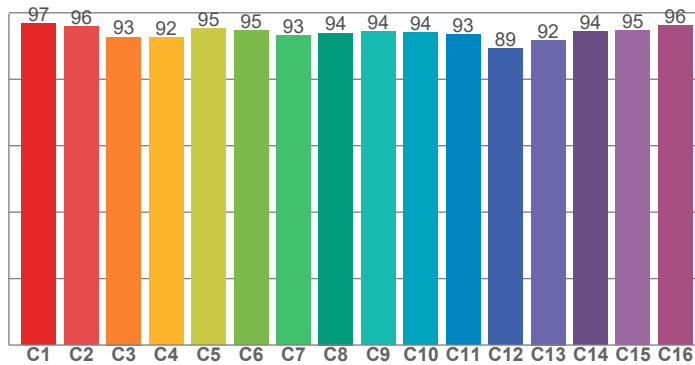


COLOR DETAILS



TM30: 94.1

CRI: 94.8 (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
93.6	95.6	98.3	92.6	92.5	91.0	97.7	97.5	95.5	90.7	88.1	85.8	93.5	98.6	96.2

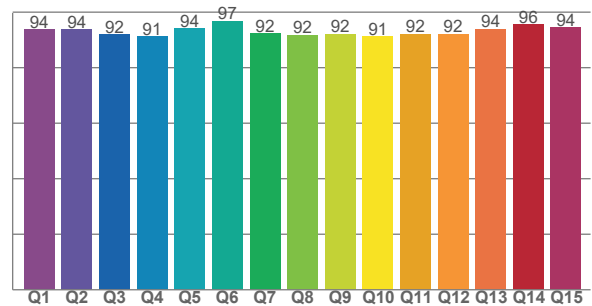
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96.8	95.7	92.7	92.4	95.2	94.5	93.2	93.9	94.3	94.1	93.3	89.3	91.8	94.3	94.7	96.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93.7	93.8	91.9	91.3	94.2	96.8	92.4	91.8	92.1	91.2	92.0	92.2	93.9	95.5	94.5

CQS: 92.9



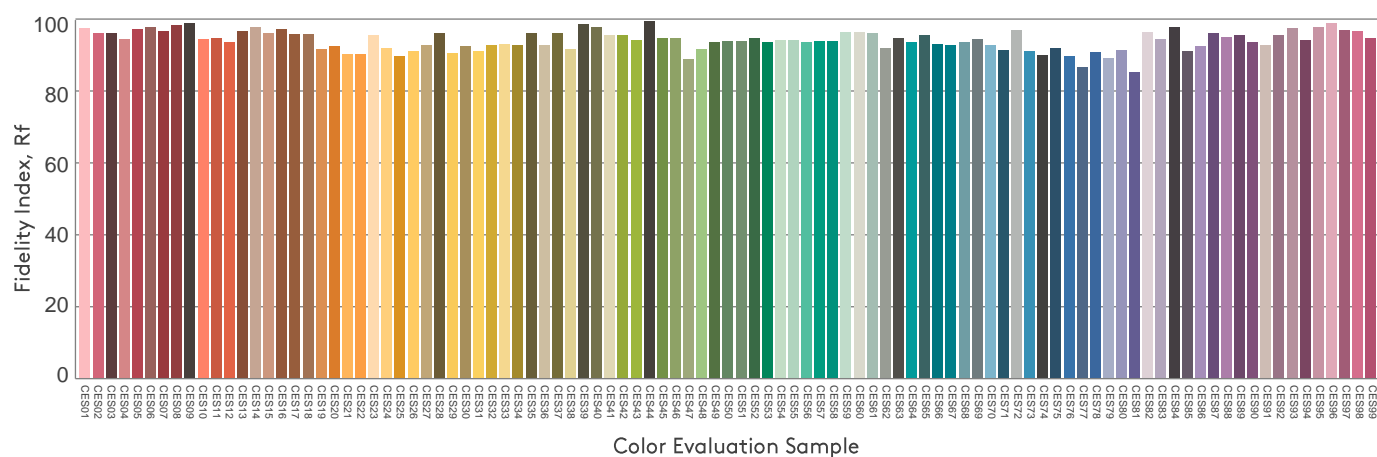
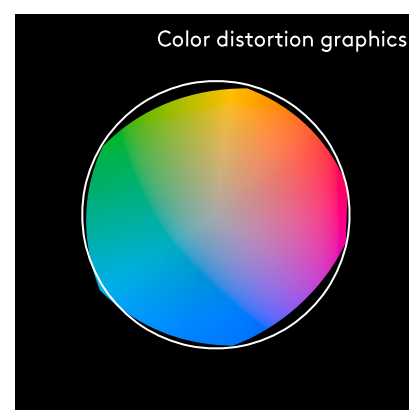
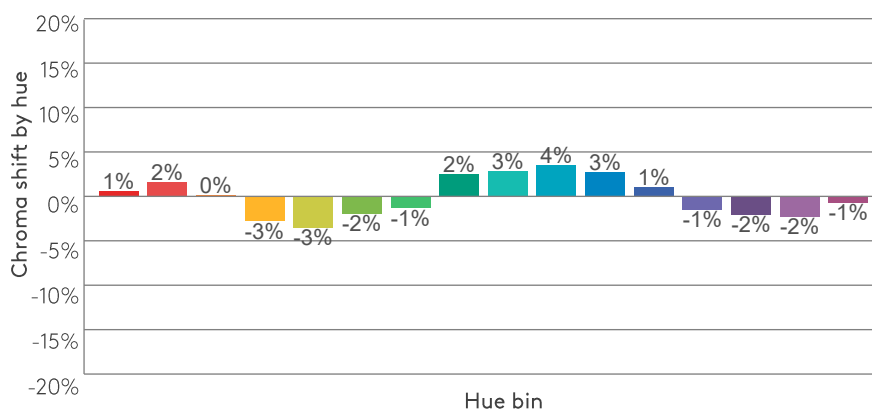
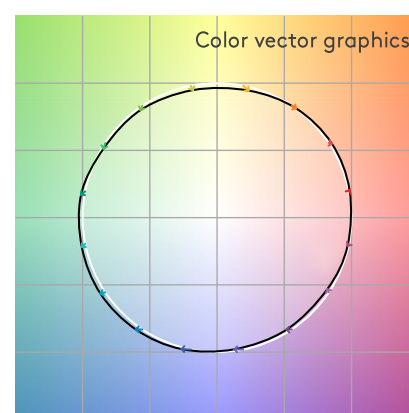
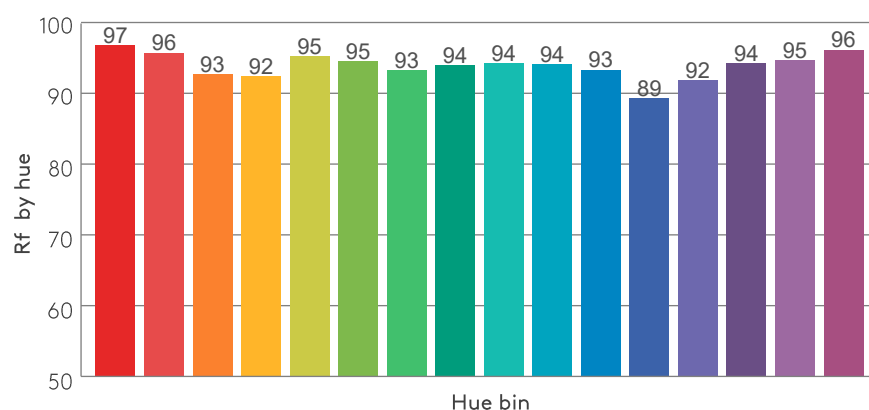
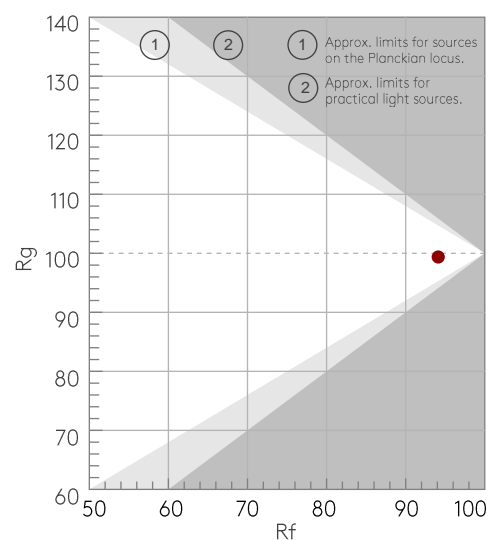
COLOR PARAMETERS

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
2730 K	94.8	95.5	94.1	99.4	92.9	0.458	0.410	0.261	0.351	0.0002

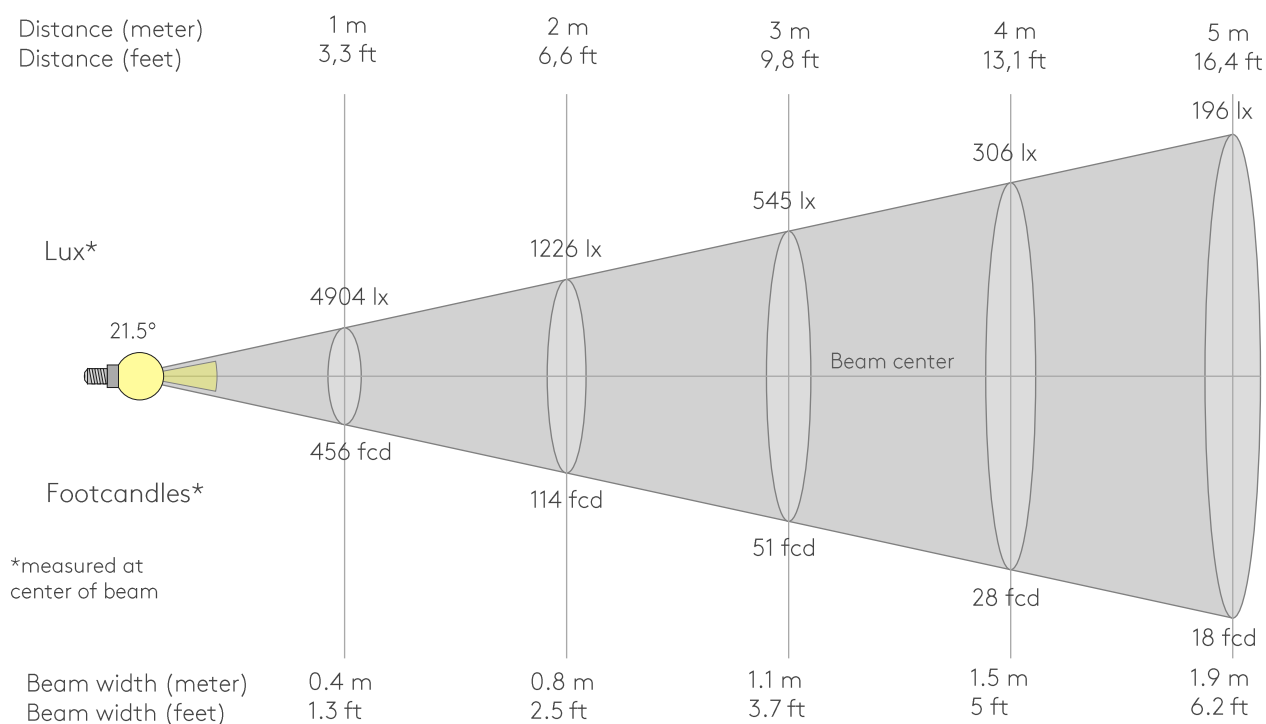
Rf 94.1
Fidelity index Rf

Rg 99.4
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	97	1%	1%
2	96	2%	-2%
3	93	0%	-4%
4	92	-3%	-5%
5	95	-3%	-1%
6	95	-2%	3%
7	93	-1%	4%
8	94	2%	3%
9	94	3%	2%
10	94	4%	-1%
11	93	3%	-4%
12	89	1%	-7%
13	92	-1%	-7%
14	94	-2%	-3%
15	95	-2%	1%
16	96	-1%	-1%



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
4904lx	1226lx	545lx	306lx	196lx	136lx	100lx	77lx	61lx	49lx	41lx	34lx	29lx	25lx	22lx	19lx	17lx	15lx	14lx	12lx
455.6fcd	113.9fcd	50.6fcd	28.5fcd	18.2fcd	12.7fcd	9.3fcd	7.1fcd	5.6fcd	4.6fcd	3.8fcd	3.2fcd	2.7fcd	2.3fcd	2fcd	1.8fcd	1.6fcd	1.4fcd	1.3fcd	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°
4904	4817	4517	4024	3382	2698	2053	1492	1035	709	493	350	250	181	131	93	64	44	27	16
100%	98%	92%	82%	69%	55%	42%	30%	21%	14%	10%	7%	5%	4%	3%	2%	1%	1%	1%	0%

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°
4904	4817	4517	4024	3382	2698	2053	1492	1035	709	493	350	250	181	131	93	64	44	27	16
100%	98%	92%	82%	69%	55%	42%	30%	21%	14%	10%	7%	5%	4%	3%	2%	1%	1%	1%	0%

Intensities in 180° c-plane

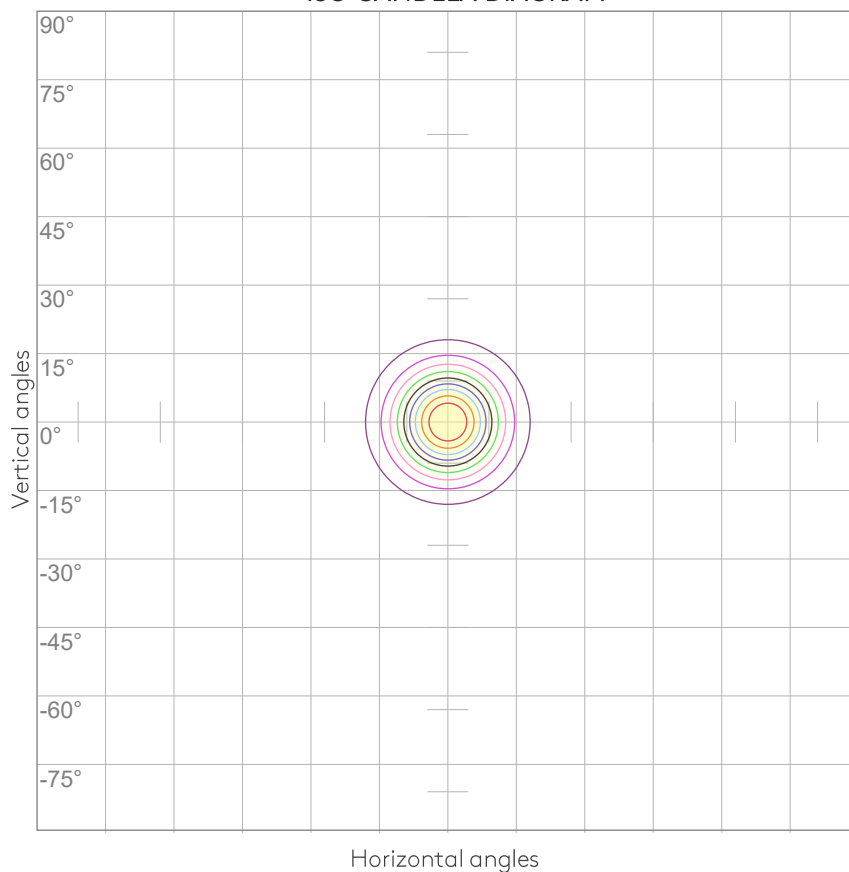
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4904	4817	4517	4024	3382	2698	2053	1492	1035	709	493	350	250	181	131	93	64	44	27	16
100%	98%	92%	82%	69%	55%	42%	30%	21%	14%	10%	7%	5%	4%	3%	2%	1%	1%	1%	0%

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°
4904	4817	4517	4024	3382	2698	2053	1492	1035	709	493	350	250	181	131	93	64	44	27	16
100%	98%	92%	82%	69%	55%	42%	30%	21%	14%	10%	7%	5%	4%	3%	2%	1%	1%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21.5°	40.1°	56.9°	99.8%	99.6%

ISO CANDELA DIAGRAM



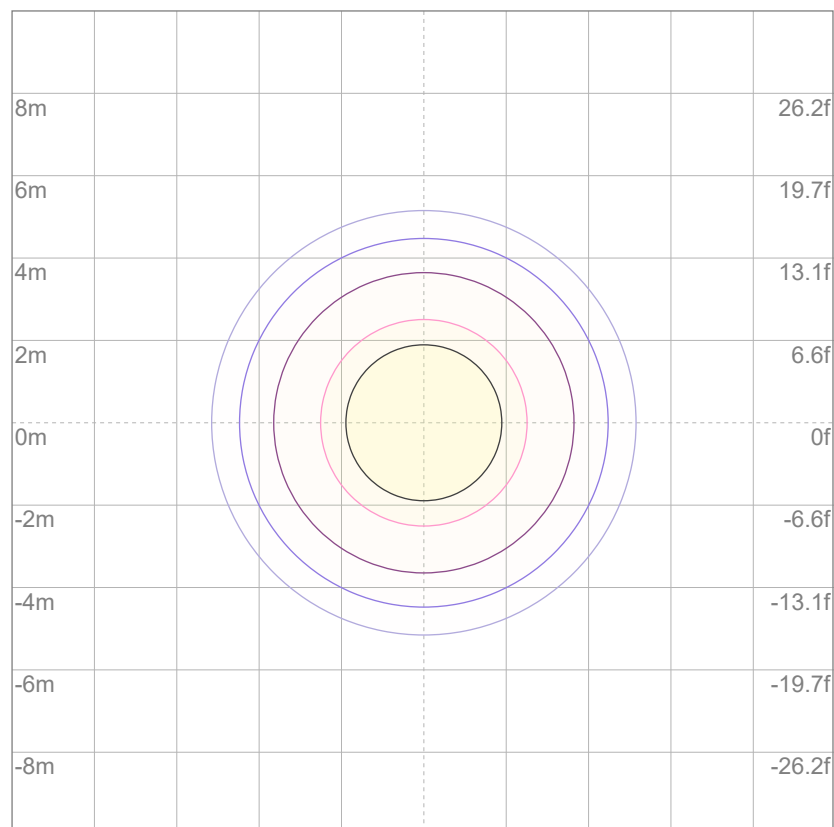
10%	490 cd
20%	981 cd
30%	1471 cd
40%	1962 cd
50%	2452 cd
60%	2942 cd
70%	3433 cd
80%	3923 cd
90%	4414 cd

Conditions:

Number of c-planes: 8

Candela at center: 4904 cd

ISO LUX DIAGRAM



3%	1.47 lx
5%	2.45 lx
10%	4.90 lx
30%	14.7 lx
50%	{LUX_10M50} lx

Conditions:

Number of c-planes: 8

Lux at center: 49.0 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	9.1	9.4	9.1	9.6	9.8	9.1	9.4	9.1	9.6	9.8
	3H	8.8	9.3	9.1	9.5	9.6	8.8	9.3	9.1	9.5	9.6
	4H	8.7	9.2	9.1	9.4	9.6	8.7	9.2	9.1	9.4	9.6
	6H	8.7	9.1	9.0	9.4	9.7	8.7	9.1	9.0	9.4	9.7
	8H	8.6	9.0	8.9	9.4	9.7	8.6	9.0	8.9	9.4	9.7
	12H	8.6	9.0	8.9	9.3	9.7	8.6	9.0	8.9	9.3	9.7
4H	2H	8.7	9.2	9.1	9.4	9.6	8.7	9.2	9.1	9.4	9.6
	3H	8.6	9.0	8.9	9.3	9.7	8.6	9.0	8.9	9.3	9.7
	4H	8.4	8.8	8.8	9.2	9.7	8.4	8.8	8.8	9.2	9.7
	6H	8.3	8.8	8.8	9.1	9.4	8.3	8.8	8.8	9.1	9.4
	8H	8.3	8.7	8.8	9.0	9.4	8.3	8.7	8.8	9.0	9.4
	12H	8.2	8.5	8.7	8.9	9.4	8.2	8.5	8.7	8.9	9.4
8H	4H	8.3	8.7	8.8	9.0	9.4	8.3	8.7	8.8	9.0	9.4
	6H	8.2	8.5	8.7	8.9	9.4	8.2	8.5	8.7	8.9	9.4
	8H	8.2	8.4	8.7	8.9	9.5	8.2	8.4	8.7	8.9	9.5
	12H	8.1	8.3	8.7	8.8	9.4	8.1	8.3	8.7	8.8	9.4
12H	4H	8.2	8.5	8.7	8.9	9.4	8.2	8.5	8.7	8.9	9.4
	6H	8.2	8.4	8.7	8.9	9.5	8.2	8.4	8.7	8.9	9.5
	8H	8.1	8.3	8.7	8.8	9.4	8.1	8.3	8.7	8.8	9.4
Variation of the observer position for the luminaire distance S											
S = 1.0H		6.3 / -13.3					6.3 / -13.3				
S = 1.5H		9.1 / -16.3					9.1 / -16.3				
S = 2.0H		11.1 / -17.2					11.1 / -17.2				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 845 lm total luminous flux											

DECOR PRO ROUND FLUSH FIXED - LIGHT PLANNING

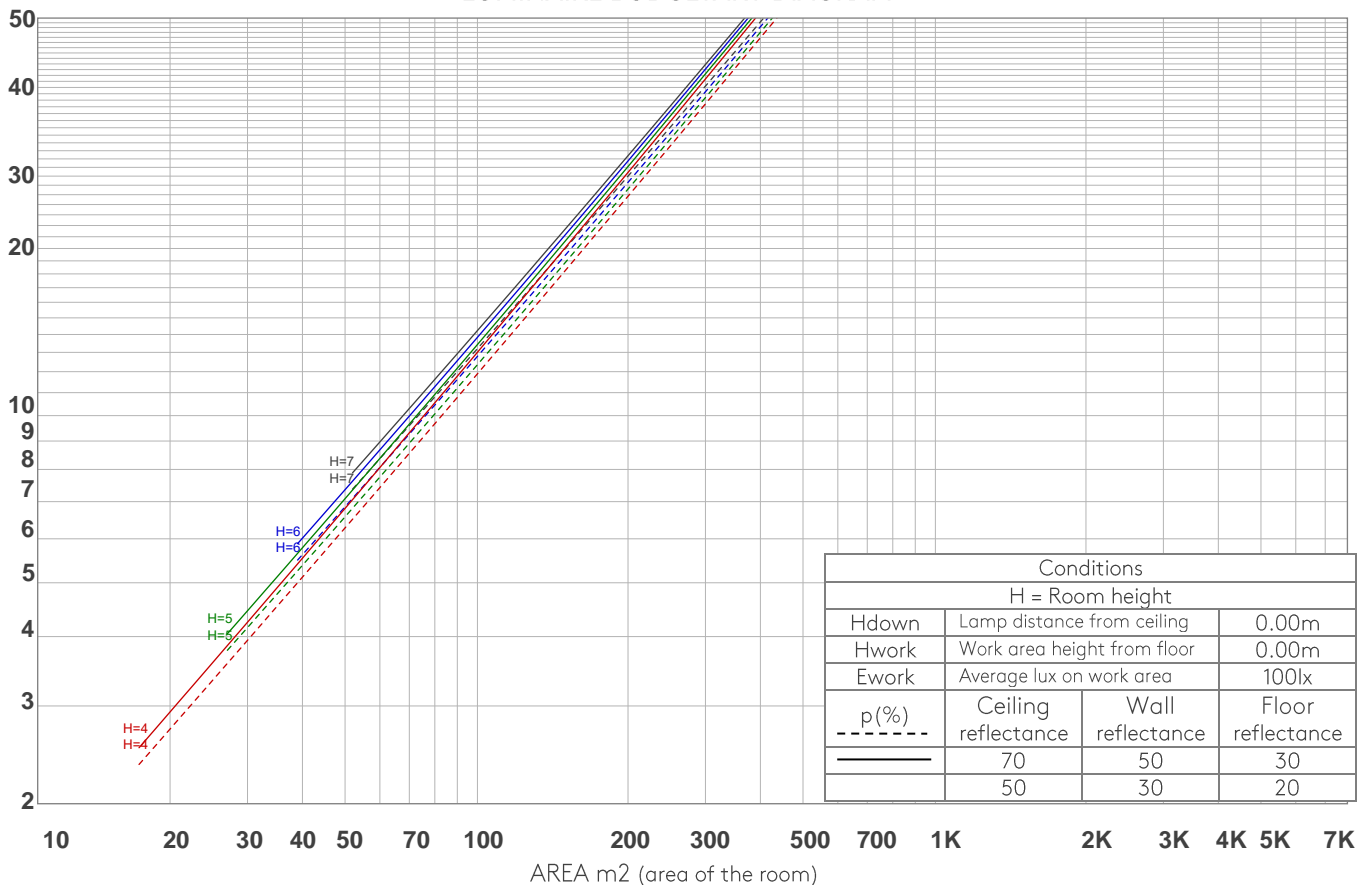
astro

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	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97
2	112	108	105	103	110	107	104	102	104	101	100	101	99	98	98	97	96	94
3	108	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	92
4	105	100	97	94	104	99	96	93	97	95	92	96	93	91	94	92	90	89
5	103	97	93	90	101	96	93	90	95	92	89	93	91	89	92	90	88	87
6	100	94	90	87	99	93	90	87	92	89	87	91	88	86	90	87	86	85
7	97	91	88	85	96	91	87	85	90	87	84	89	86	84	88	85	83	82
8	95	89	85	83	94	88	85	82	88	84	82	87	84	82	86	83	81	81
9	93	87	83	80	92	86	83	80	86	82	80	85	82	80	84	81	80	79
10	91	85	81	78	90	84	81	78	84	80	78	83	80	78	82	80	78	77

LAMPS (number of lamps)

LUMINAIRE BUDGETARY DIAGRAM



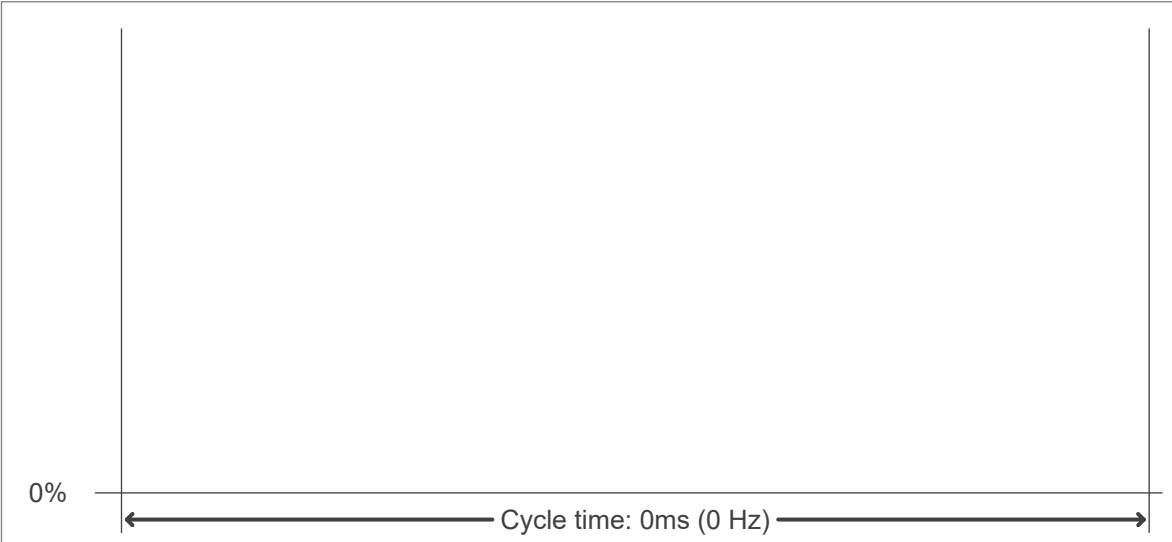
ZONAL LUMEN SUMMARY

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
356 lm	354 lm	105 lm	24.2 lm	3.01 lm	0.765 lm	0.146 lm	0.067 lm	0.055 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.063 lm	0.062 lm	0.071 lm	0.087 lm	0.131 lm	0.304 lm	0.462 lm	0.372 lm	0.074 lm

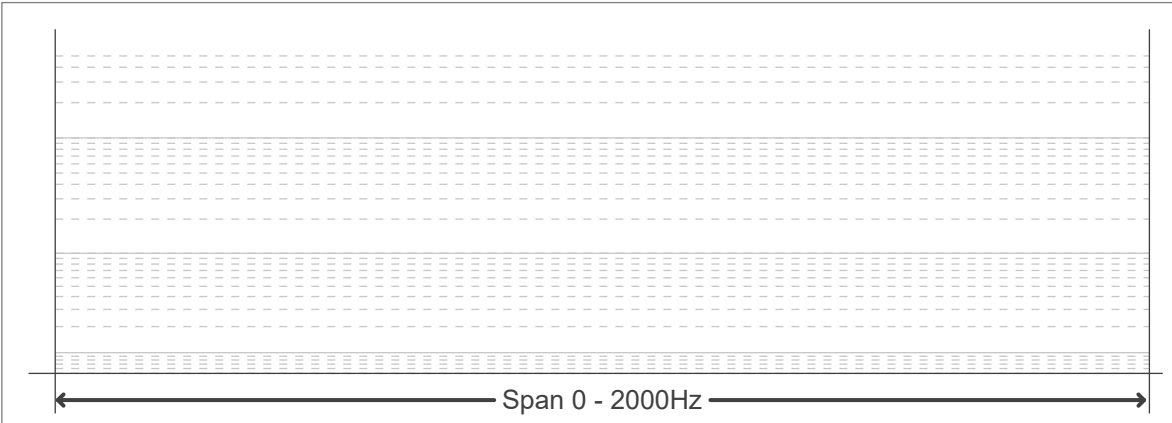
FLICKER CURVE (COMPLETE SAMPLED)



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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