

PHOTOMETRIC TEST REPORT

CAN 30 SPOT 48V TRACK DALI -
MATT WHITE

astro

CAN 30 SPOT 48V TRACK DALI - MATT

astro

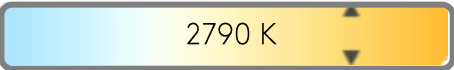
LIGHT EFFICIENCY:



LIGHT QUALITY:



COLOR TEMPERATURE:

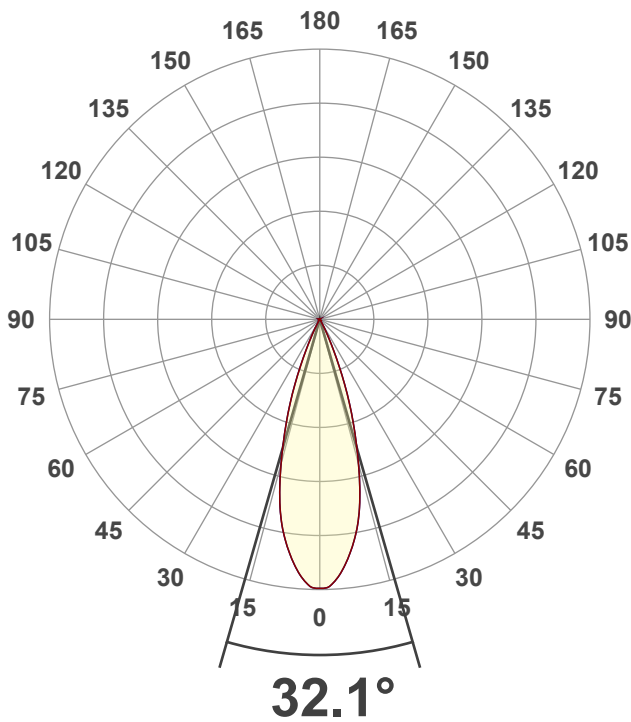


OUTPUT: 629 lm
PEAK: 2190 cd
POWER: 9.8 W
PF: 0.65



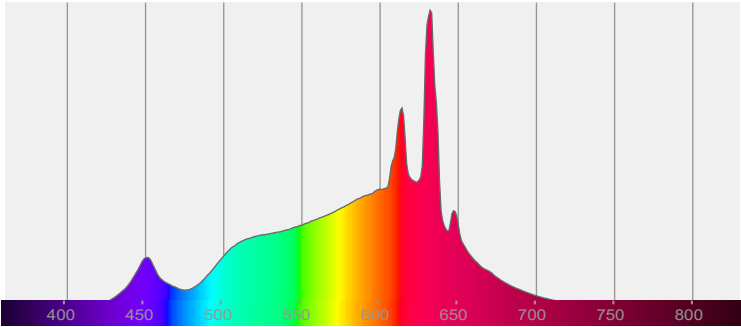
Tracking number: [n/a](#)

Product name:
Can 30 Spot 48V Track DALI - Matt White
Item number:
1396047
Date and time:
17/12/2025 15:32:09
Description:
IP20 48V Track Spot Light
Tested with Stucchi 9500/P-100E-B-SP-N
Driver Box

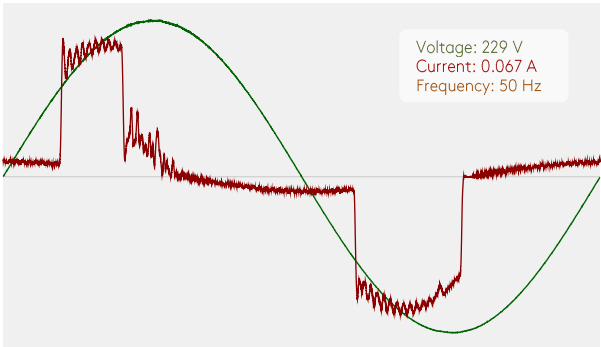


CIE 1931
x: 0.456
y: 0.414

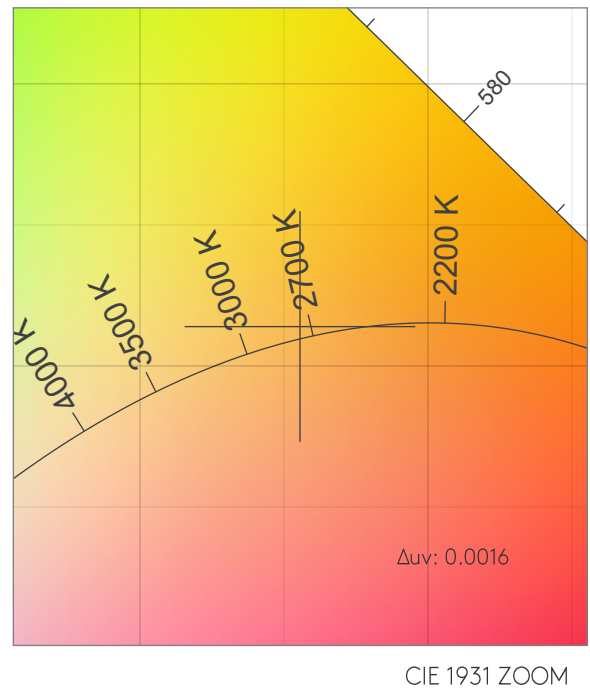
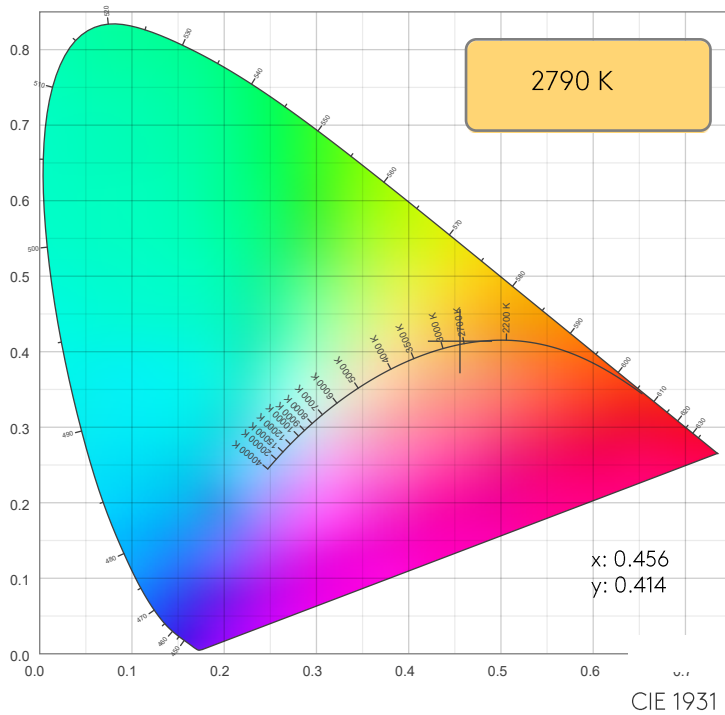
SPECTRA



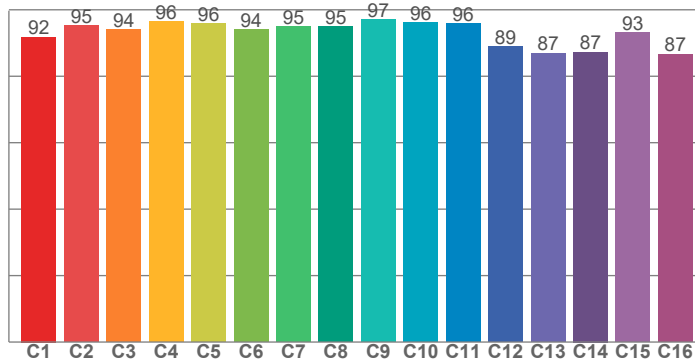
POWER



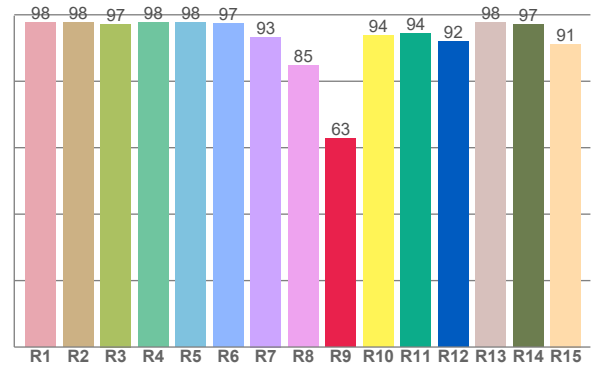
COLOR DETAILS



TM30: 93.5



CRI: 95.5 (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
97.8	97.8	97.2	97.8	97.7	97.5	93.3	84.6	62.8	93.8	94.4	92.1	97.8	97.0	91.2

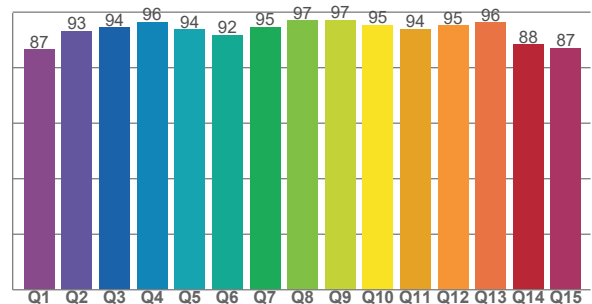
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.8	95.2	94.0	96.5	95.8	94.0	94.9	95.0	97.1	96.2	95.8	88.9	87.0	87.3	93.1	86.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86.5	93.3	94.4	96.3	93.8	91.8	94.7	96.9	97.1	95.4	94.0	95.2	96.3	88.3	87.1

CQS: 92.3



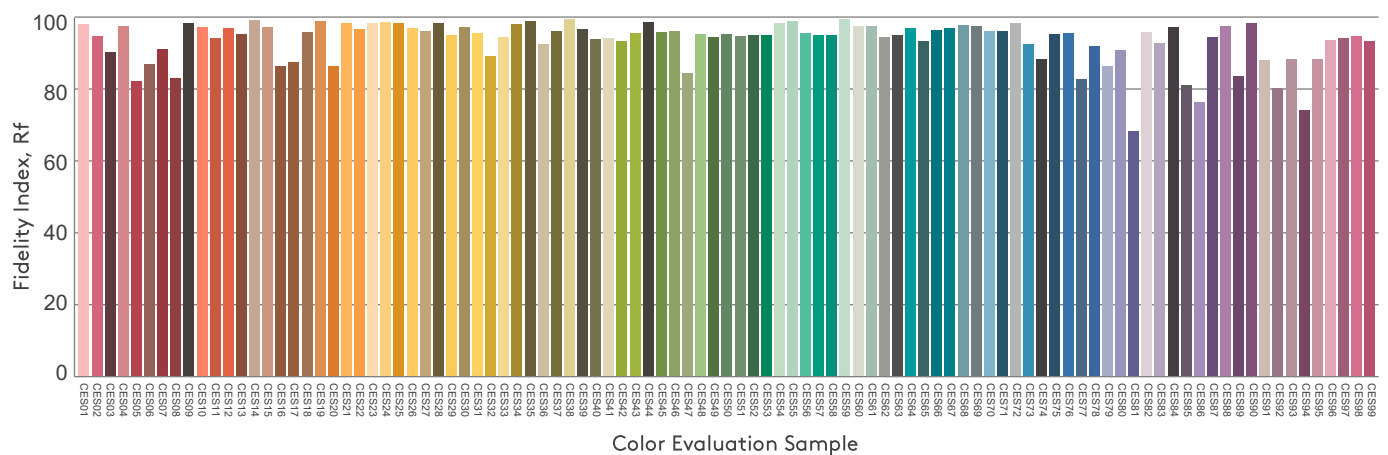
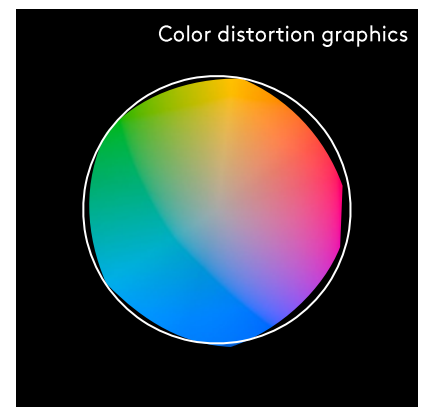
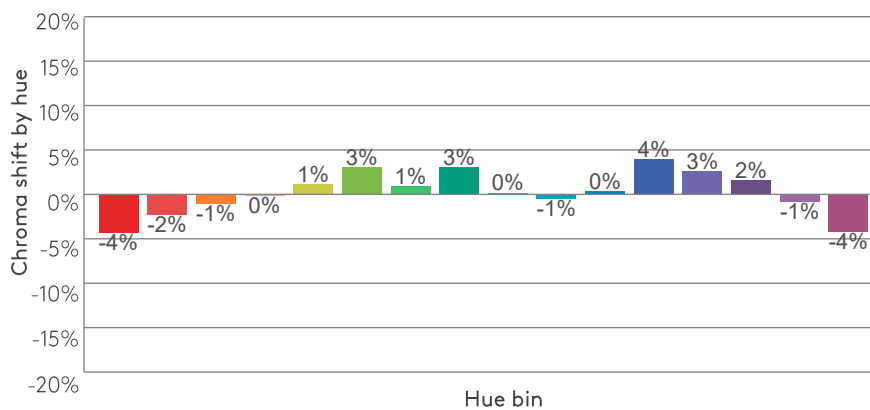
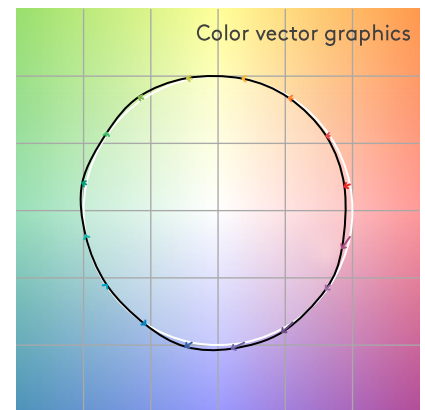
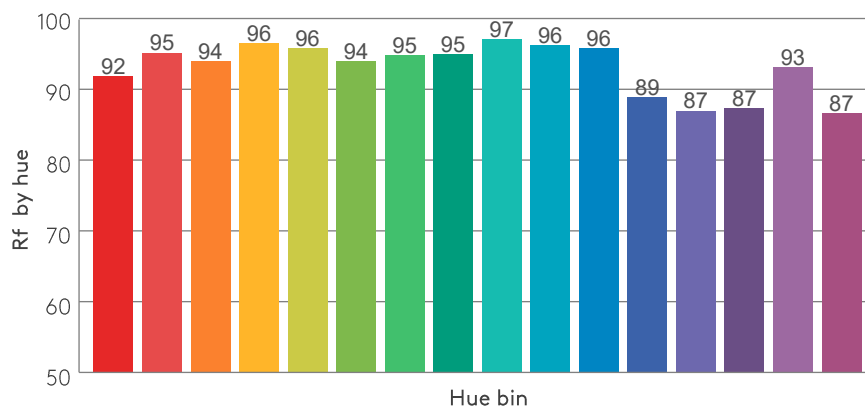
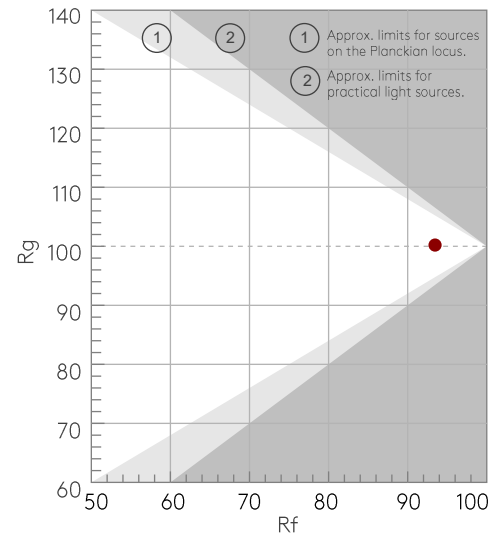
COLOR PARAMETERS

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
2790 K	95.5	62.8	93.5	100.2	92.3	0.456	0.414	0.258	0.352	0.0016

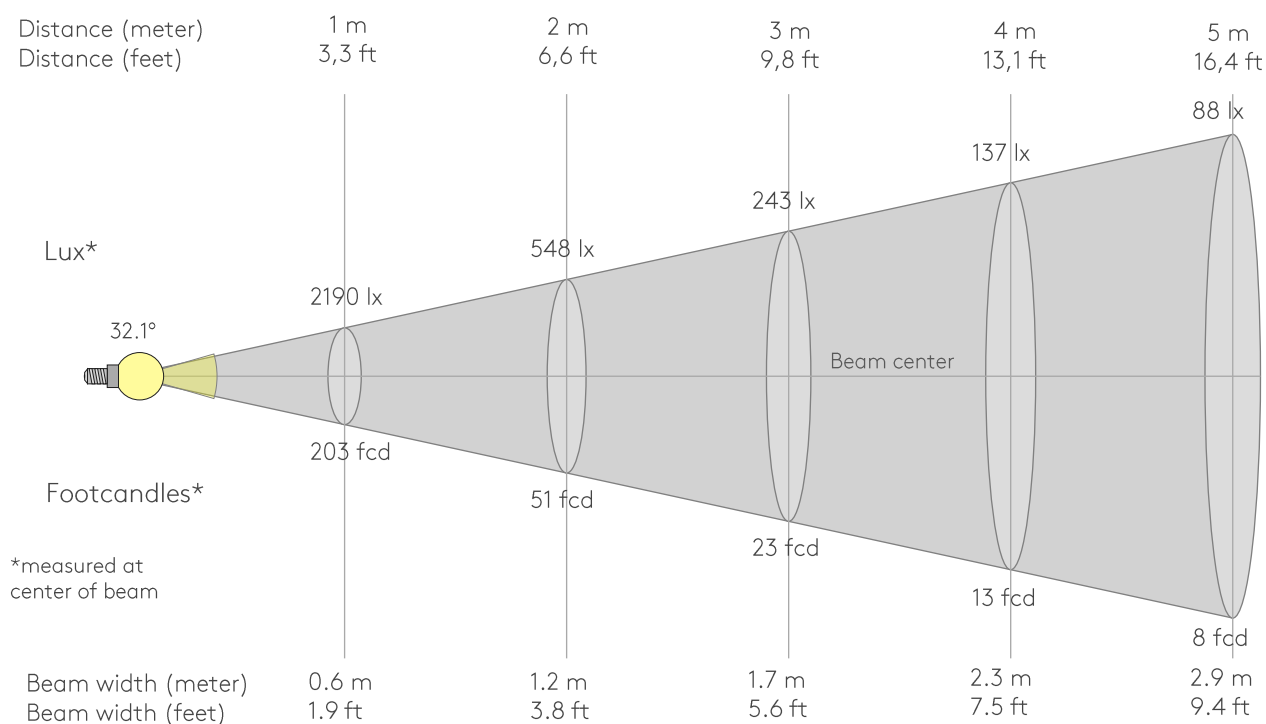
Rf 93.5
Fidelity index Rf

Rg 100.2
Gammut index Rg

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	95	-2%	1%
3	94	-1%	3%
4	96	0%	1%
5	96	1%	3%
6	94	3%	2%
7	95	1%	-2%
8	95	3%	-1%
9	97	0%	-1%
10	96	-1%	0%
11	96	0%	2%
12	89	4%	-4%
13	87	3%	-10%
14	87	2%	-10%
15	93	-1%	-4%
16	87	-4%	-9%



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
2190lx	548lx	243lx	137lx	88lx	61lx	45lx	34lx	27lx	22lx	18lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx	5lx
203.5fcd	50.9fcd	22.6fcd	12.7fcd	8.1fcd	5.7fcd	4.2fcd	3.2fcd	2.5fcd	2fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	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°
2190	2175	2108	2006	1880	1737	1559	1337	1102	879	666	456	277	154	74	28	10	4	2	2
100%	99%	96%	92%	86%	79%	71%	61%	50%	40%	30%	21%	13%	7%	3%	1%	0%	0%	0%	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°
2190	2175	2108	2006	1880	1737	1559	1337	1102	879	666	456	277	154	74	28	10	4	2	2
100%	99%	96%	92%	86%	79%	71%	61%	50%	40%	30%	21%	13%	7%	3%	1%	0%	0%	0%	0%

Intensities in 180° c-plane

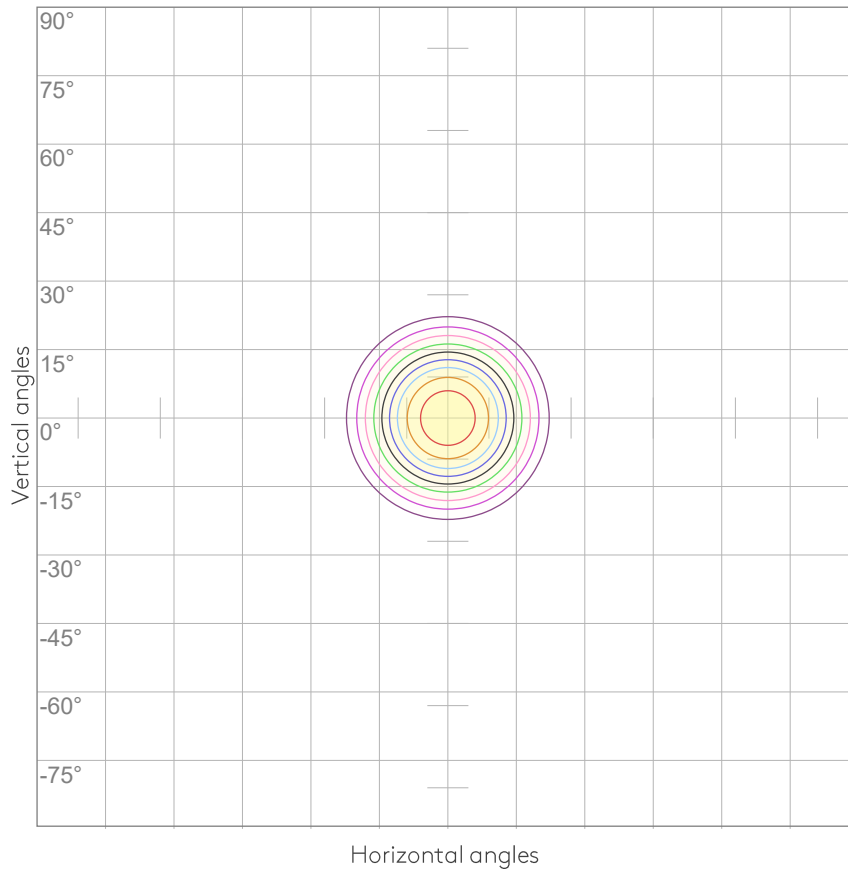
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2190	2175	2108	2006	1880	1737	1559	1337	1102	879	666	456	277	154	74	28	10	4	2	2
100%	99%	96%	92%	86%	79%	71%	61%	50%	40%	30%	21%	13%	7%	3%	1%	0%	0%	0%	0%

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°
2190	2175	2108	2006	1880	1737	1559	1337	1102	879	666	456	277	154	74	28	10	4	2	2
100%	99%	96%	92%	86%	79%	71%	61%	50%	40%	30%	21%	13%	7%	3%	1%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32.1°	49.7°	57.4°	99.9%	99.9%

ISO CANDELA DIAGRAM



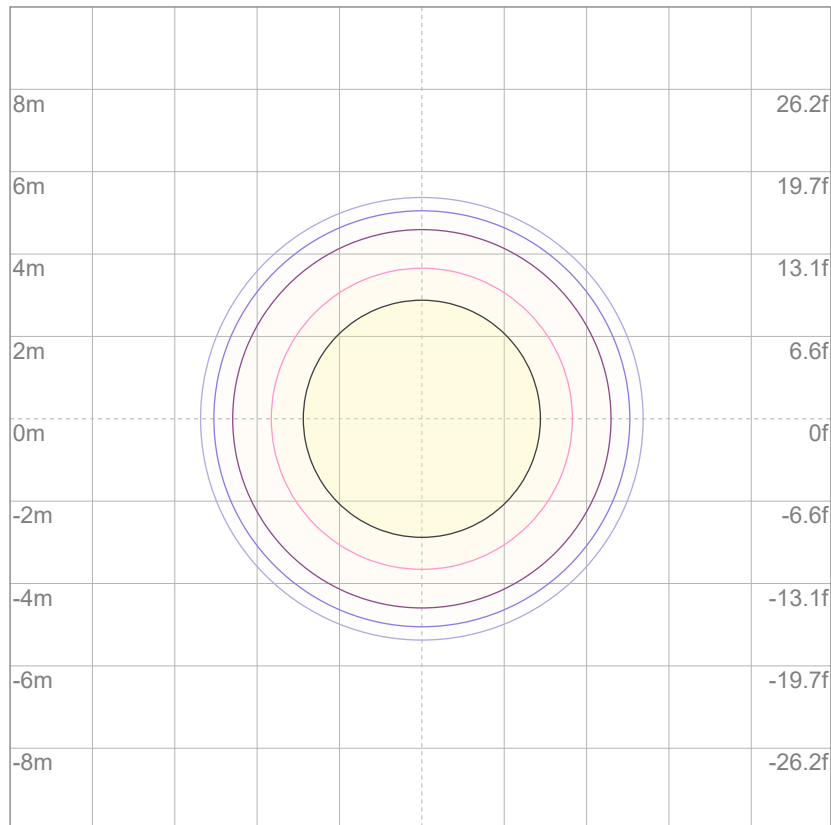
10%	219 cd
20%	438 cd
30%	657 cd
40%	876 cd
50%	1095 cd
60%	1314 cd
70%	1533 cd
80%	1752 cd
90%	1971 cd

Conditions:

Number of c-planes: 8

Candela at center: 2190 cd

ISO LUX DIAGRAM



3%	0.657 lx
5%	1.10 lx
10%	2.19 lx
30%	6.57 lx
50%	11.0 lx

Conditions:

Number of c-planes: 8

Lux at center: 21.9 lx

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

Mounting height: 10 meters (33 feet)

UGR

GLARE EVALUATION ACCORDING TO UGR

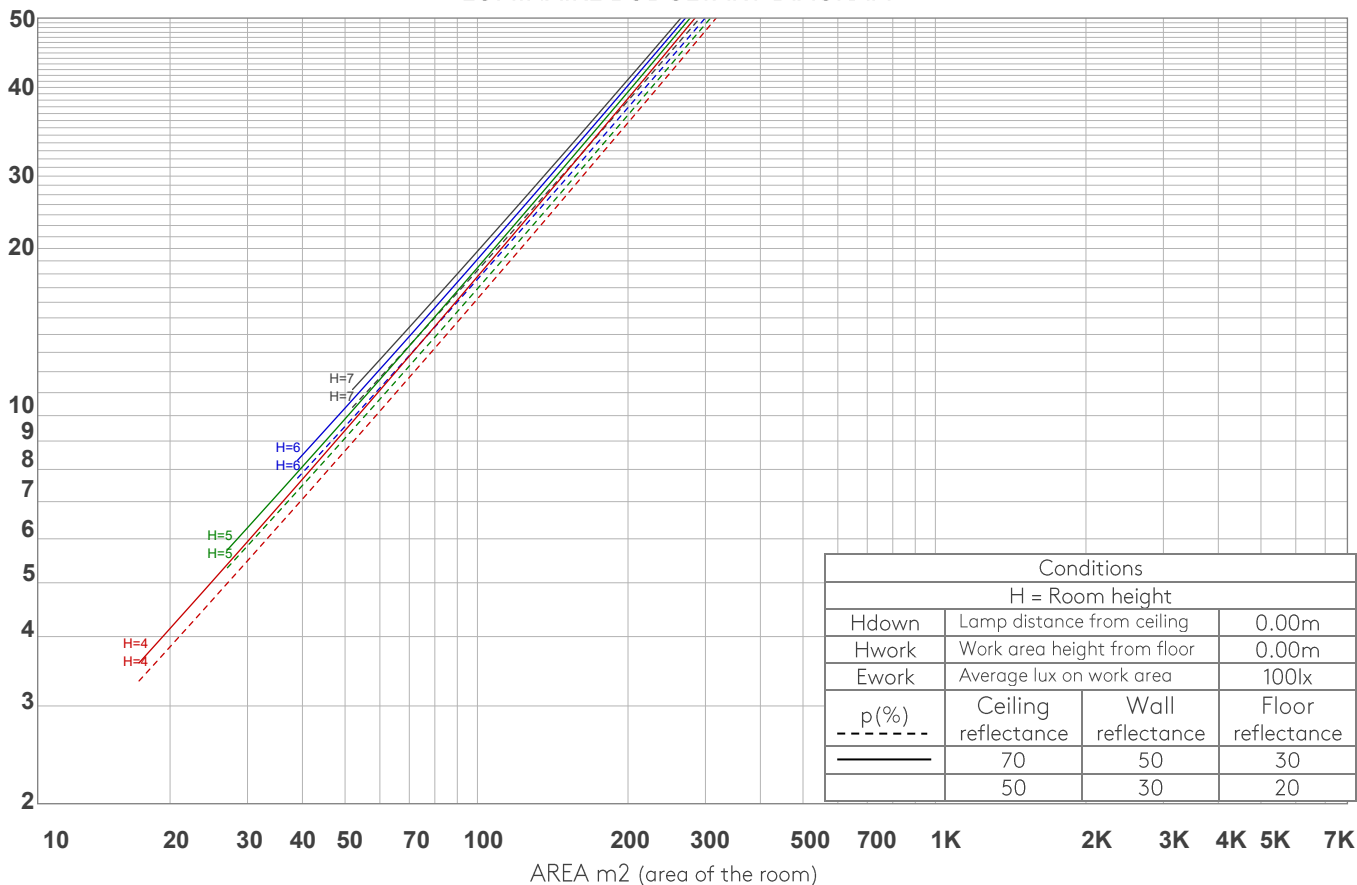
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	-1.2	-0.8	-1.2	-0.7	-0.5	-1.2	-0.8	-1.2	-0.7	-0.5
	3H	-1.5	-1.0	-1.2	-0.8	-0.6	-1.5	-1.0	-1.2	-0.8	-0.6
	4H	-1.6	-1.1	-1.2	-0.9	-0.6	-1.6	-1.1	-1.2	-0.9	-0.6
	6H	-1.6	-1.2	-1.3	-0.9	-0.6	-1.6	-1.2	-1.3	-0.9	-0.6
	8H	-1.7	-1.3	-1.4	-0.9	-0.6	-1.7	-1.3	-1.4	-0.9	-0.6
	12H	-1.7	-1.3	-1.4	-1.0	-0.6	-1.7	-1.3	-1.4	-1.0	-0.6
4H	2H	-1.6	-1.1	-1.2	-0.9	-0.6	-1.6	-1.1	-1.2	-0.9	-0.6
	3H	-1.7	-1.3	-1.4	-1.0	-0.6	-1.7	-1.3	-1.4	-1.0	-0.6
	4H	-1.9	-1.5	-1.5	-1.1	-0.6	-1.9	-1.5	-1.5	-1.1	-0.6
	6H	-2.0	-1.5	-1.5	-1.2	-0.9	-2.0	-1.5	-1.5	-1.2	-0.9
	8H	-2.0	-1.6	-1.5	-1.3	-0.9	-2.0	-1.6	-1.5	-1.3	-0.9
	12H	-2.1	-1.8	-1.6	-1.4	-0.9	-2.1	-1.8	-1.6	-1.4	-0.9
8H	4H	-2.0	-1.6	-1.5	-1.3	-0.9	-2.0	-1.6	-1.5	-1.3	-0.9
	6H	-2.1	-1.8	-1.6	-1.4	-0.9	-2.1	-1.8	-1.6	-1.4	-0.9
	8H	-2.1	-1.9	-1.6	-1.4	-0.8	-2.1	-1.9	-1.6	-1.4	-0.8
	12H	-2.2	-2.0	-1.6	-1.5	-0.9	-2.2	-2.0	-1.6	-1.5	-0.9
12H	4H	-2.1	-1.8	-1.6	-1.4	-0.9	-2.1	-1.8	-1.6	-1.4	-0.9
	6H	-2.1	-1.9	-1.6	-1.4	-0.8	-2.1	-1.9	-1.6	-1.4	-0.8
	8H	-2.2	-2.0	-1.6	-1.5	-0.9	-2.2	-2.0	-1.6	-1.5	-0.9
Variation of the observer position for the luminaire distance S											
S = 1.0H		6.6 / -19.8					6.6 / -19.8				
S = 1.5H		9.4 / -21.7					9.4 / -21.7				
S = 2.0H		11.4 / -21.7					11.4 / -21.7				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 629 lm total luminous flux											

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	109	113	111	109	108	107	105	104	103	102	101	100	99	98	97
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	100	97	106	102	99	96	99	97	94	97	95	93	95	93	92	90
4	104	99	95	92	103	98	94	92	96	93	91	94	92	90	92	90	89	87
5	101	95	91	88	100	95	91	88	93	90	87	91	89	87	90	88	86	85
6	98	92	88	85	97	91	88	85	90	87	84	89	86	84	88	85	83	82
7	96	89	85	82	94	89	85	82	87	84	81	86	83	81	85	83	81	80
8	93	86	82	79	92	86	82	79	85	81	79	84	81	79	83	80	78	77
9	90	84	80	77	89	83	79	77	82	79	76	82	79	76	81	78	76	75
10	88	81	77	75	87	81	77	74	80	77	74	80	76	74	79	76	74	73

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°
186 lm	328 lm	110 lm	3.59 lm	0.411 lm	0.032 lm	0.011 lm	0.004 lm	0.003 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.005 lm	0.002 lm	0.005 lm	0.019 lm	0.042 lm	0.152 lm	0.255 lm	0.173 lm	0.024 lm

Flicker /TLA details

FLICKER

Flicker Meter Type Viso Systems LabFlicker
 Frequency of input power 50 Hz
 Flicker/TLA sample rate 20000 samples/s

Measurement time
 PstLM 180 sec
 All other indices 1,2 sec

Flicker indices according to Illuminating Engineering Society (IES)

Flicker frequency 1000 Hz
 Percent Flicker 0.51 %
 Flicker index 0

Flicker indices according to California Energy Commission (CEC) 2016b

JA8/10 40 Hz 0.02 %
 JA8/10 90 Hz 0.02 %
 JA8/10 200 Hz 0.03 %
 JA8/10 400 Hz 0.04 %
 JA8/10 1000 Hz 0.63 %

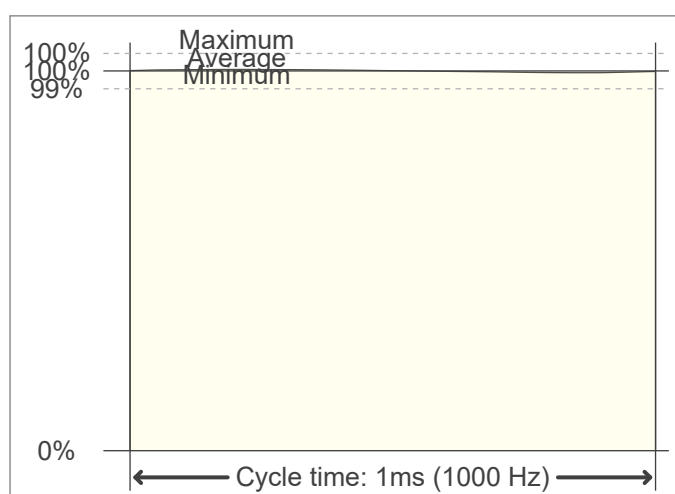
TLA indices (re IEC TR 61547-1, IEC 61000-3-3 and IEC 61000-4-15)

PstLM value ($F < 80$ Hz) 0.01
 SVM value ($80 < F < 2000$ Hz) 0

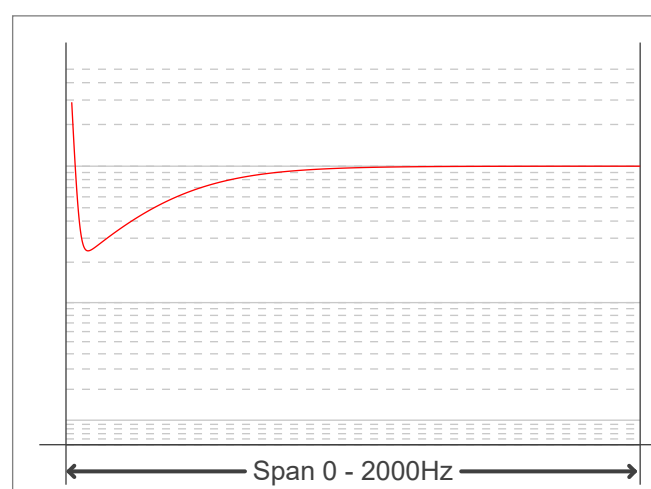
Flicker indices according to Lighting Research Center (2015)

Perception metric, Assist Mp 0.01

Flicker frame (frame of one flicker period in time domain)



Flicker FFT (flicker curve in frequency domain)



IEEE 1789 Frequency/modulation plot

