

# PHOTOMETRIC TEST REPORT

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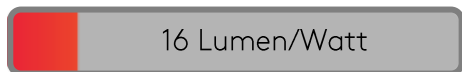
EDGE READER MINI MATT WHITE

astro

# EDGE READER MINI MATT WHITE

astro

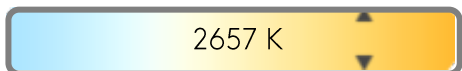
## LIGHT EFFICIENCY:



## LIGHT QUALITY:



## COLOR TEMPERATURE:



OUTPUT: 153 lm  
PEAK: 32.0 cd  
POWER: 9.3 W  
PF: 0.78



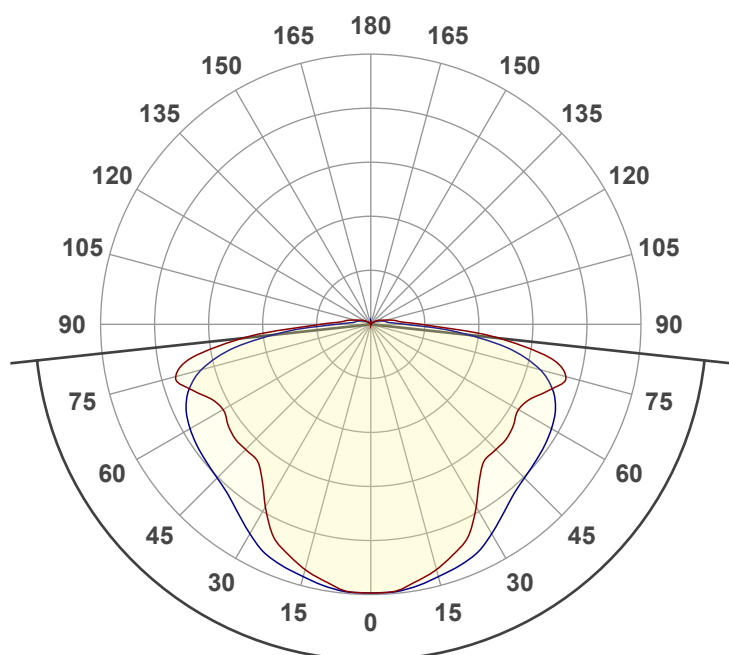
Tracking number: [n/a](#)

Product name:  
Edge Reader Mini Matt White

Item number:  
1352043

Date and time:  
31/05/2023 16:02:27

Description:  
IP20 LED Wall Light / Reader

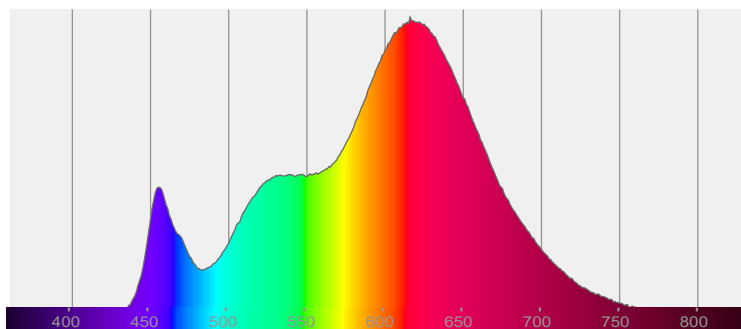


167.7°

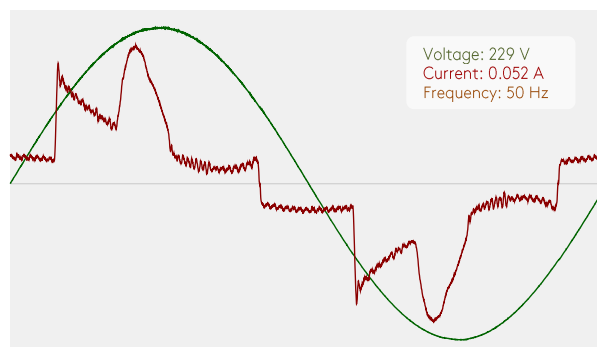


CIE 1931  
x: 0.458  
y: 0.402

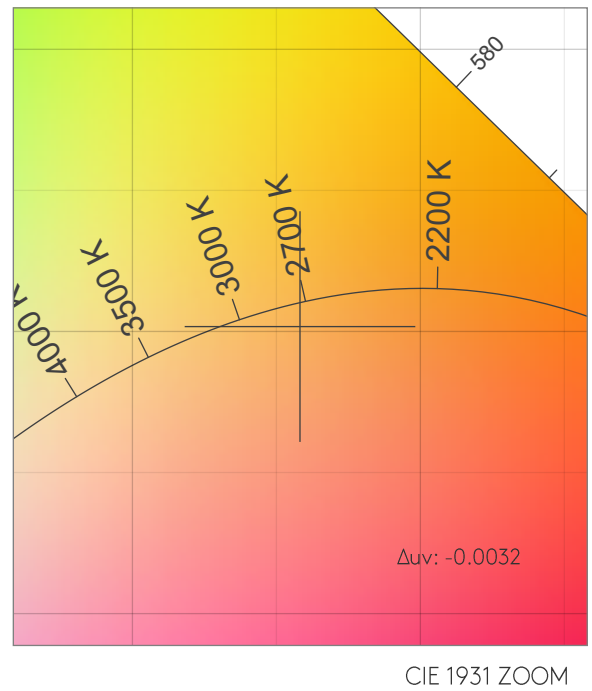
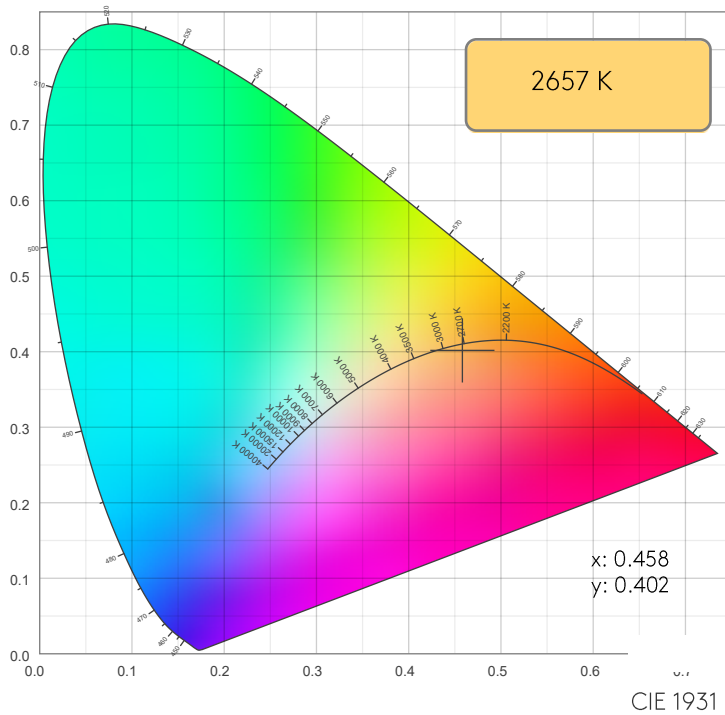
## SPECTRA



## POWER

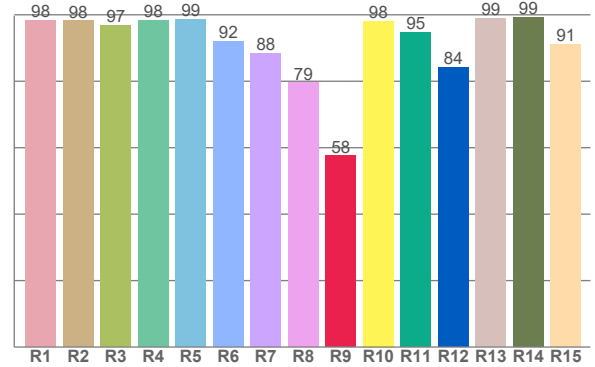
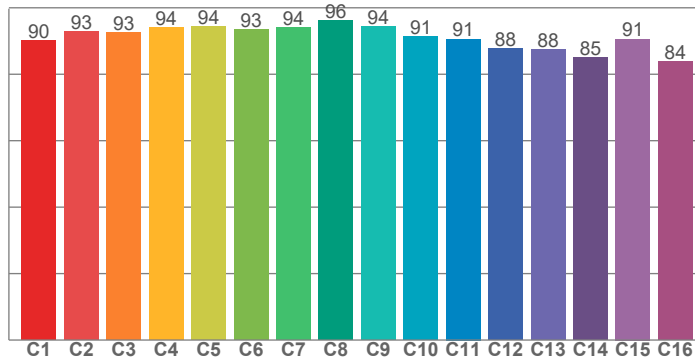


## COLOR DETAILS



TM30: 91.3

CRI: 93.8 (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
98.2	98.2	96.8	98.2	98.7	92.0	88.5	79.5	67.5	98.1	94.7	84.1	98.8	99.2	91.0

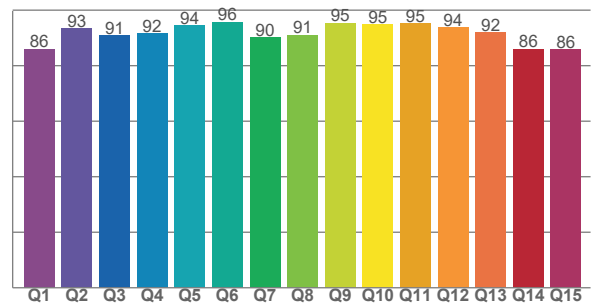
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90.2	92.8	92.6	94.1	94.4	93.4	94.2	96.1	94.3	91.4	90.6	87.8	87.5	85.1	90.6	83.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86.0	93.4	90.9	91.6	94.4	95.6	90.1	91.0	95.3	94.9	95.2	93.7	91.9	85.9	85.8

CQS: 90.8



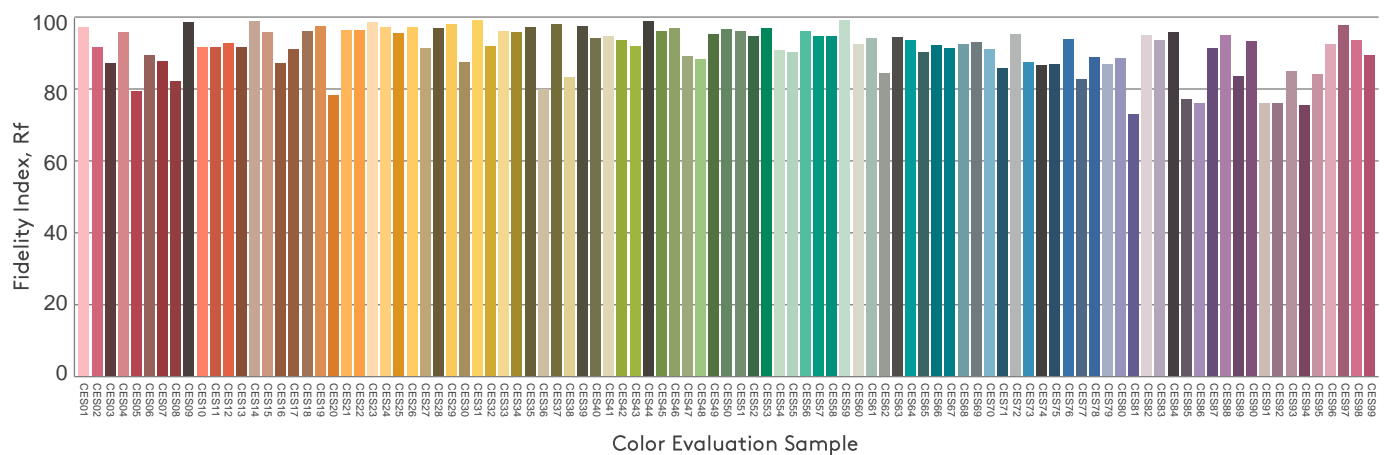
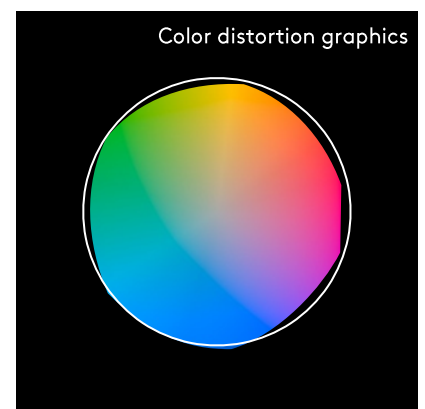
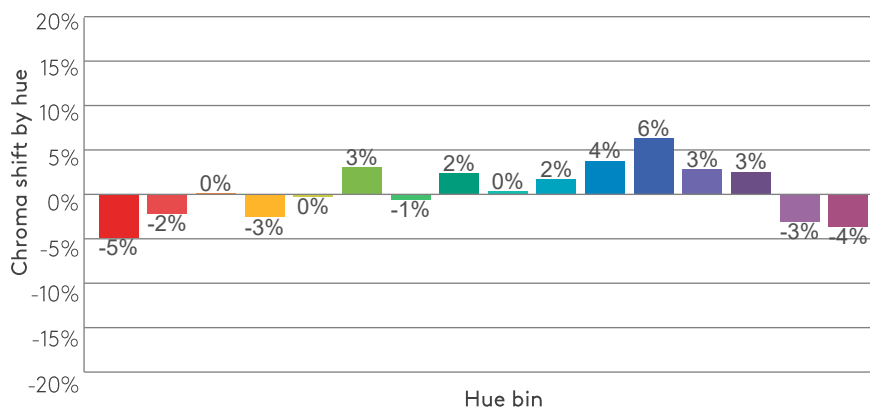
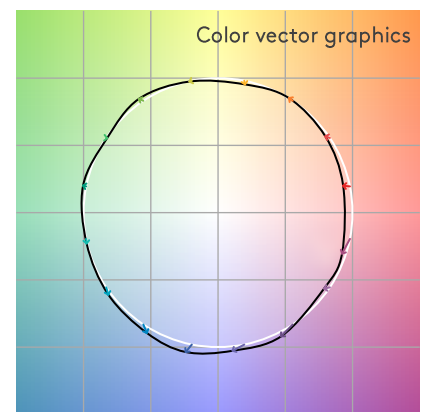
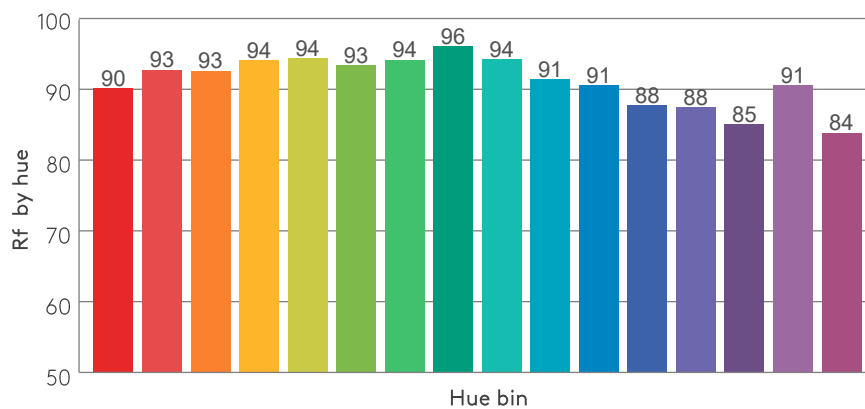
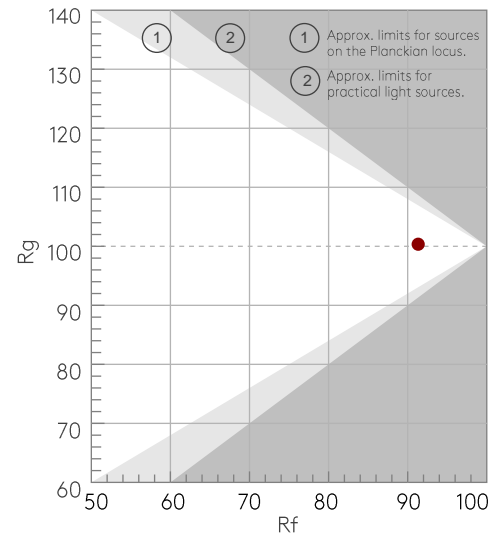
## COLOR PARAMETERS

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	$\Delta uv$
2657 K	93.8	57.5	91.3	100.4	90.8	0.458	0.402	0.265	0.349	-0.0032

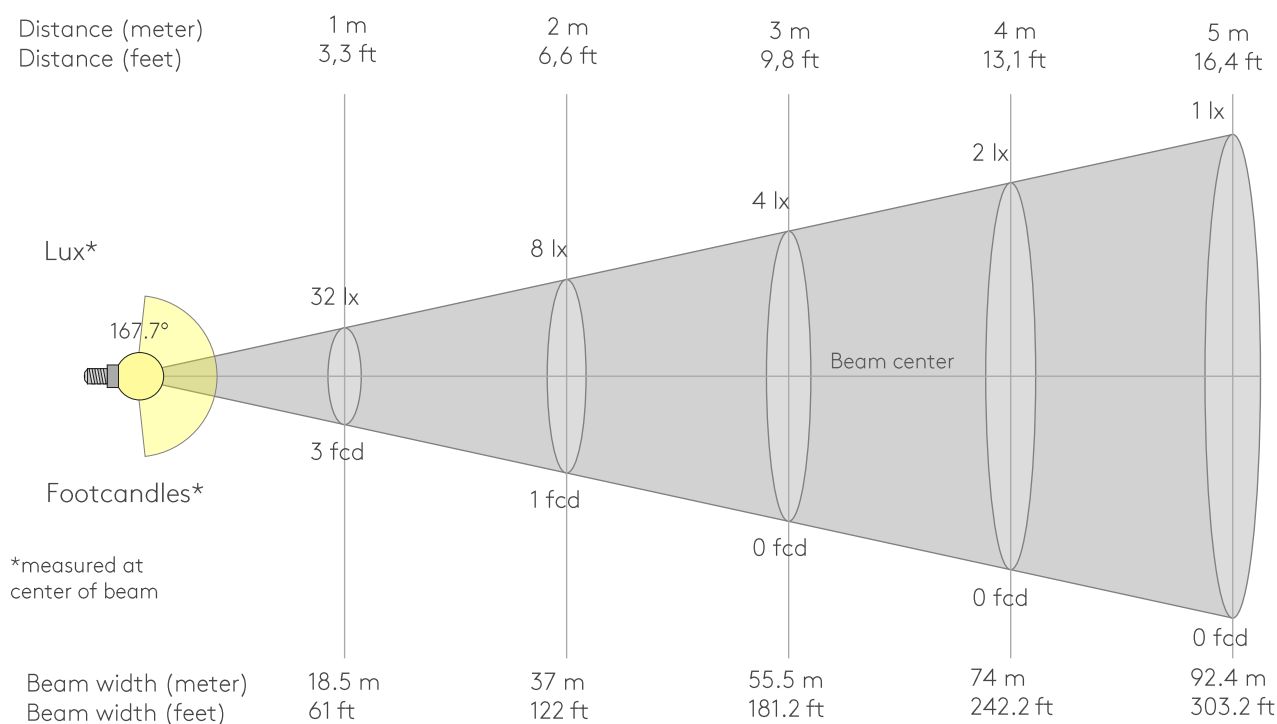
R<sub>f</sub> 91.3  
Fidelity index R<sub>f</sub>

R<sub>g</sub> 100.4  
Gammut index R<sub>g</sub>

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	1%
2	93	-2%	3%
3	93	0%	3%
4	94	-3%	-1%
5	94	0%	2%
6	93	3%	0%
7	94	-1%	0%
8	96	2%	0%
9	94	0%	3%
10	91	2%	5%
11	91	4%	6%
12	88	6%	-3%
13	88	3%	-9%
14	85	3%	-12%
15	91	-3%	-3%
16	84	-4%	-12%



## 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
32lx	8lx	4lx	2lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
3fcd	0.7fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
32.0	31.3	29.5	26.6	22.3	21.1	20.9	20.7	23.4	19.4	6.1	2.9	1.7	1.1	0.6	0.2	0.1	0.1	0.1	0.1
100%	98%	92%	83%	70%	66%	65%	65%	73%	61%	19%	9%	5%	3%	2%	1%	0%	0%	0%	0%

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
32.0	31.7	30.8	29.5	27.3	25.9	25.3	24.5	22.2	15.6	4.3	1.9	1.3	0.8	0.5	0.2	0.1	0.1	0.1	0.1
100%	99%	96%	92%	85%	81%	79%	77%	69%	49%	14%	6%	4%	3%	1%	1%	0%	0%	0%	0%

Intensities in 180° c-plane

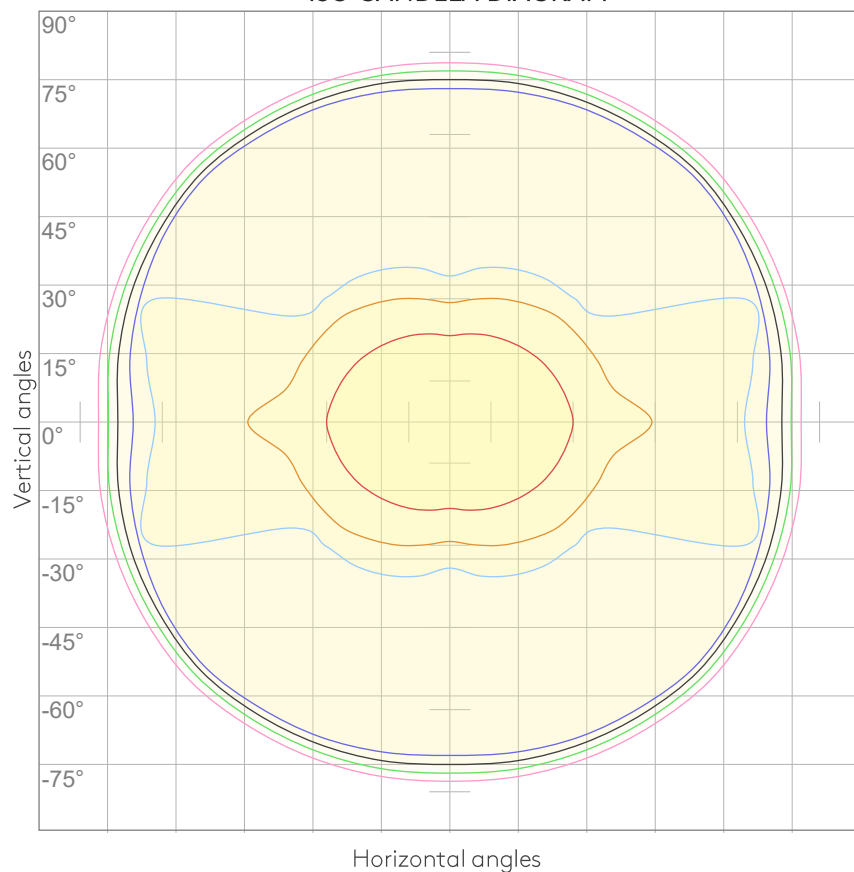
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
32.0	31.3	29.5	26.6	22.3	21.1	20.9	20.7	23.4	19.4	6.1	2.9	1.7	1.1	0.6	0.2	0.1	0.1	0.1	0.1
100%	98%	92%	83%	70%	66%	65%	65%	73%	61%	19%	9%	5%	3%	2%	1%	0%	0%	0%	0%

Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
32.0	31.7	30.8	29.5	27.3	25.9	25.3	24.5	22.2	15.6	4.3	1.9	1.3	0.8	0.5	0.2	0.1	0.1	0.1	0.1
100%	99%	96%	92%	85%	81%	79%	77%	69%	49%	14%	6%	4%	3%	1%	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
167.7°	192°	236°	51.7%	32.5%

ISO CANDELA DIAGRAM



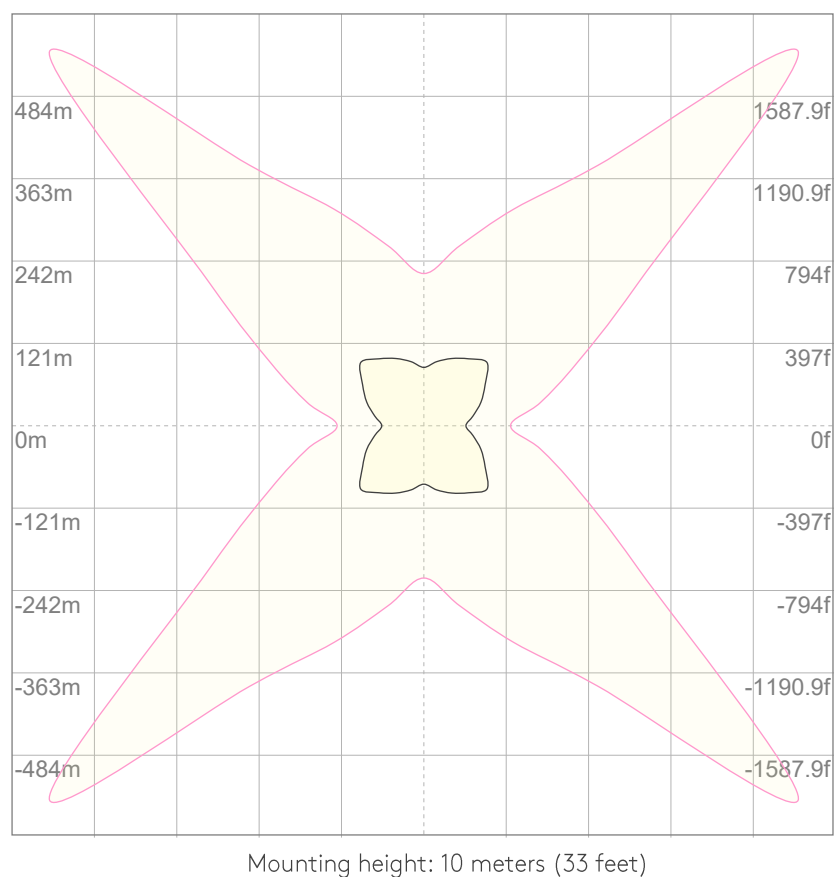
10%	3 cd
20%	6 cd
30%	10 cd
40%	13 cd
50%	16 cd
60%	19 cd
70%	22 cd
80%	26 cd
90%	29 cd

Conditions:

Number of c-planes: 8

Candela at center: 32 cd

ISO LUX DIAGRAM



3%	9.60m lx
5%	16.0m lx
10%	32.0m lx
30%	96.0m lx
50%	{LUX_10M50} lx

Conditions:

Number of c-planes: 8

Lux at center: 0.320 lx

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

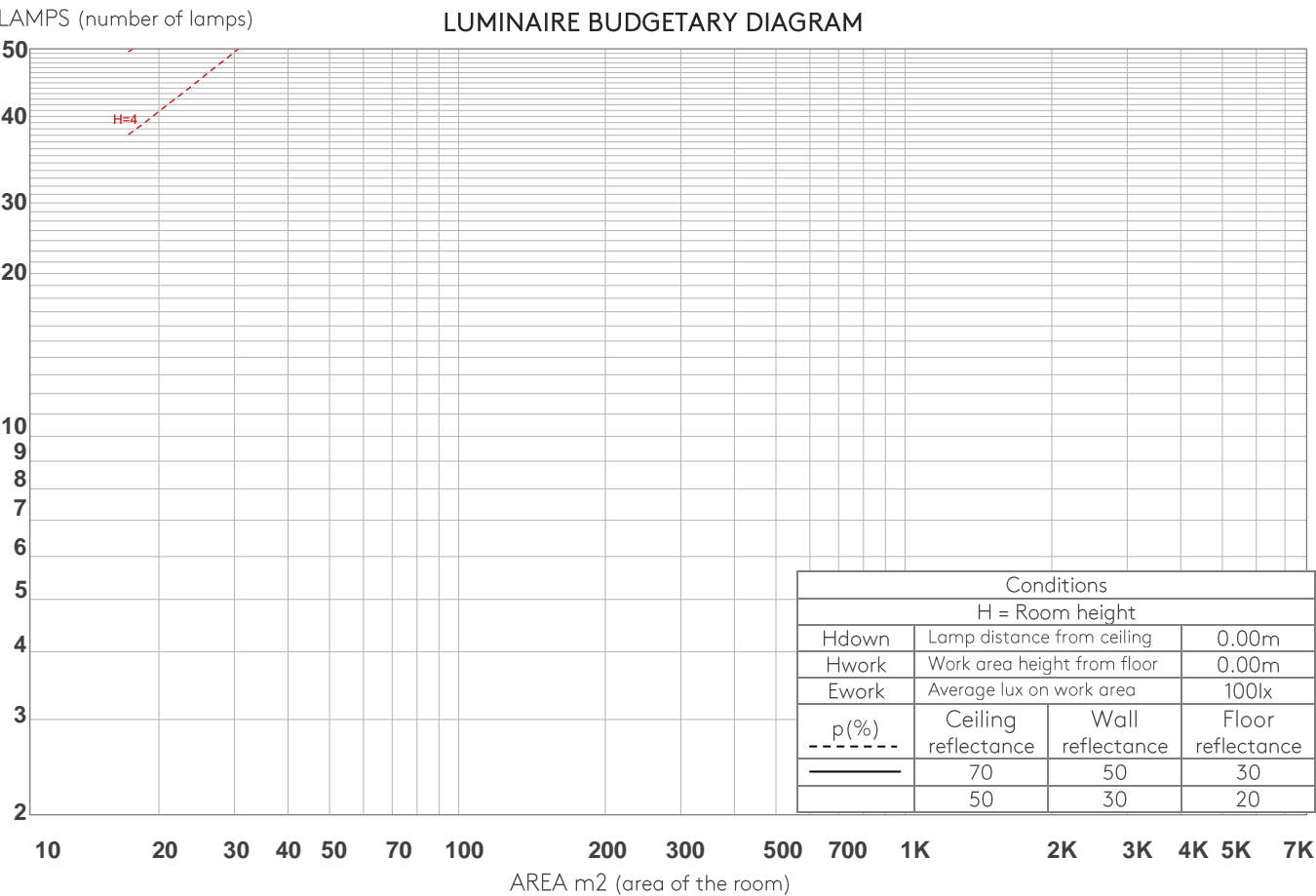
## UGR

## 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	11.7	13.1	12.0	13.5	13.9	12.3	13.7	12.7	14.2	14.5
	3H	15.0	16.5	15.5	16.9	17.2	15.2	16.7	15.7	17.1	17.4
	4H	16.9	18.3	17.4	18.7	19.1	16.7	18.1	17.2	18.5	18.9
	6H	18.7	20.0	19.1	20.4	20.9	18.0	19.3	18.4	19.6	20.1
	8H	19.4	20.7	19.8	21.0	21.6	18.4	19.7	18.9	20.1	20.6
	12H	19.9	21.2	20.4	21.5	22.1	18.8	20.0	19.2	20.4	21.0
4H	2H	13.0	14.5	13.5	14.8	15.2	13.4	14.8	13.9	15.2	15.6
	3H	16.6	17.9	17.1	18.2	18.8	16.7	17.9	17.1	18.3	18.9
	4H	18.5	19.7	19.0	20.1	20.8	18.2	19.4	18.7	19.9	20.5
	6H	20.3	21.4	20.9	21.8	22.3	19.6	20.7	20.2	21.1	21.6
	8H	21.0	22.0	21.6	22.5	23.0	20.1	21.1	20.7	21.6	22.1
	12H	21.6	22.5	22.2	23.0	23.6	20.5	21.4	21.1	21.9	22.5
8H	4H	19.3	20.3	19.9	20.8	21.3	19.1	20.0	19.6	20.5	21.0
	6H	21.3	22.1	21.9	22.7	23.3	20.7	21.5	21.3	22.1	22.7
	8H	22.2	22.9	22.7	23.5	24.2	21.4	22.1	22.0	22.7	23.4
	12H	22.9	23.5	23.5	24.1	24.8	21.9	22.5	22.5	23.1	23.8
12H	4H	19.4	20.3	20.0	20.8	21.4	19.2	20.1	19.8	20.6	21.2
	6H	21.5	22.3	22.1	22.9	23.6	21.0	21.7	21.6	22.3	23.1
	8H	22.5	23.1	23.1	23.7	24.4	21.8	22.4	22.4	23.0	23.7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.0 / 0.0					0.0 / 0.0				
S = 1.5H		0.1 / -0.1					0.0 / -0.1				
S = 2.0H		0.1 / -0.1					0.1 / -0.1				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 153 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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	102	95	88	83	98	92	86	81	87	82	77	82	78	74	77	74	71	68
2	90	79	70	62	87	77	68	61	72	65	59	68	62	57	64	59	55	52
3	81	68	57	49	78	65	56	48	62	53	47	58	51	45	55	49	44	41
4	73	59	48	40	70	57	47	39	54	45	38	51	43	37	48	41	36	33
5	67	52	41	34	64	50	41	33	48	39	32	45	37	31	42	36	31	28
6	62	46	36	29	59	45	35	28	43	34	28	40	33	27	38	32	26	24
7	57	42	32	25	55	41	31	25	39	30	24	37	29	24	35	28	23	21
8	53	38	29	22	51	37	28	22	35	27	21	34	26	21	32	25	21	18
9	49	35	26	20	48	34	25	20	32	25	19	31	24	19	29	23	18	16
10	46	32	23	18	45	31	23	18	30	22	17	29	22	17	27	21	17	15



ZONAL LUMEN SUMMARY

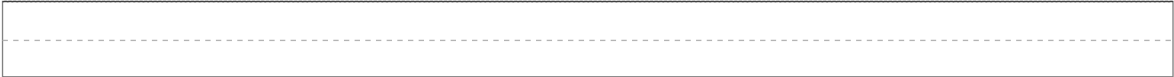
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
3.03 lm	8.67 lm	13.3 lm	16.1 lm	17.5 lm	20.4 lm	24.3 lm	26.0 lm	15.9 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
3.85 lm	2.00 lm	0.967 lm	0.377 lm	0.143 lm	0.084 lm	0.060 lm	0.036 lm	0.013 lm

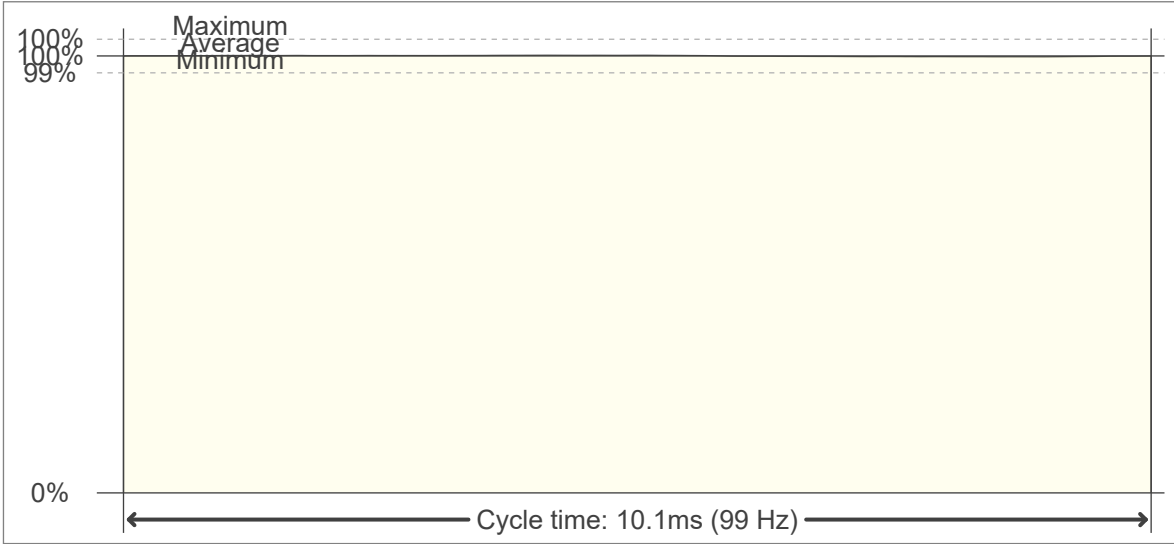


FLICKER

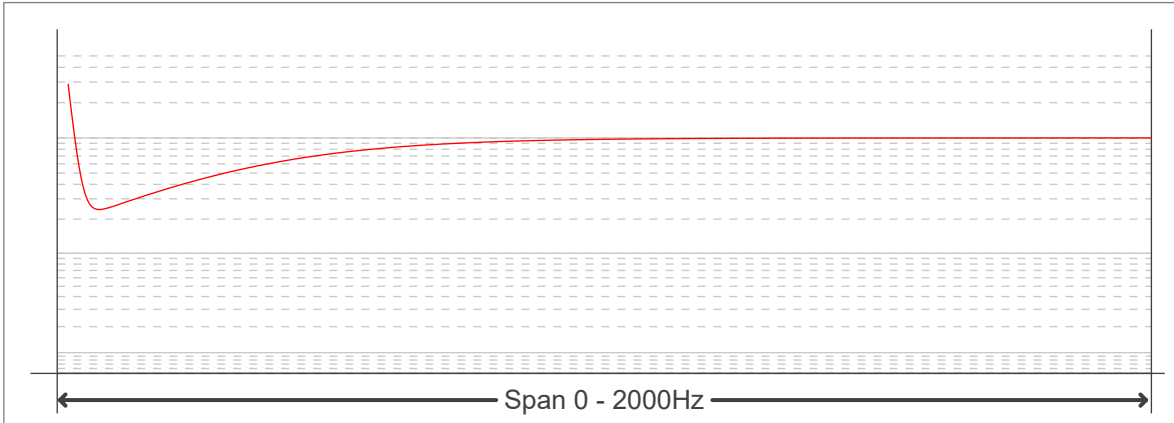
FLICKER CURVE (COMPLETE SAMPLED)



FLICKER FRAME (FRAME OF ONE FLICKER)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER)



FLICKER RESULTS:

Flicker frequency:	99.01 Hz
Flicker index:	0
Flicker percentage:	0.22 %
SVM: (Visual flicker)	0.01

FLICKER CONDITIONS:

Sample rate:	20000 samples/second
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