

Light efficiency:

147 Lumen/Watt

Light quality:

CRI: 91.2

Color temperature:

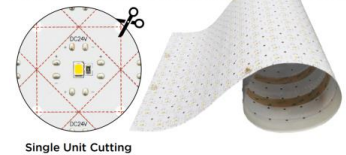
3621 K

Output: 2577 lm

Peak: 864 cd

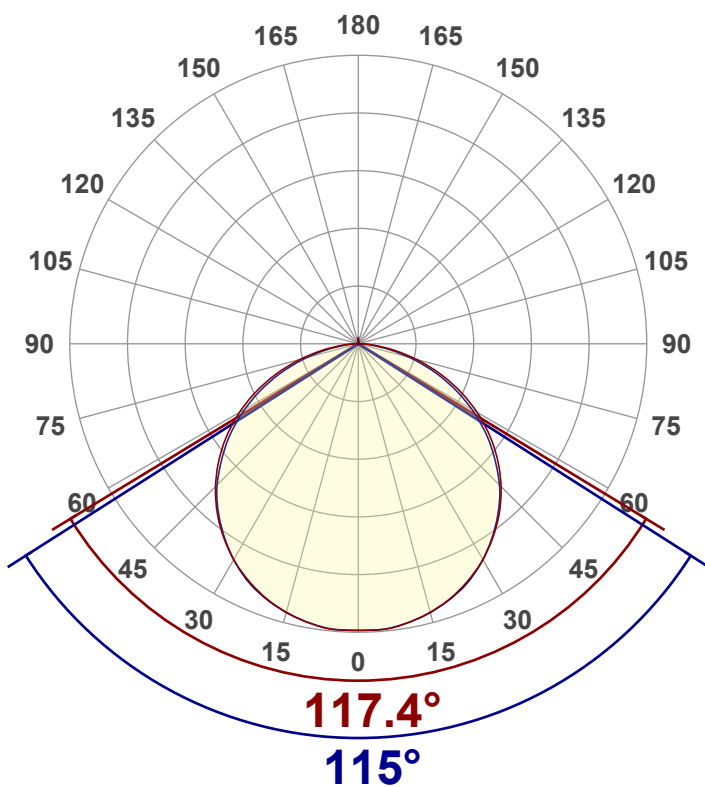
Power: 17.5 W

PF: 1.0



RoHS

IP20



Tracking number: [n/a](#)

Product name:
FBL242018VW-ALLON

Item number:

Date and time:
8/25/2025 5:45:13 PM

Operator:
BOB

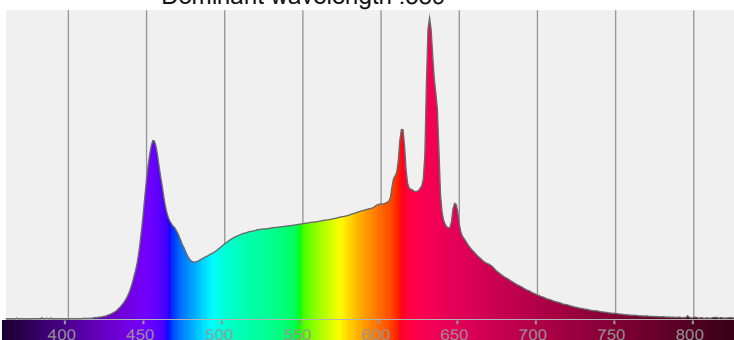
Description:
**SIZE:609.6*304.8MM
VW ALLON**



CIE 1931
x: 0.389
y: 0.359

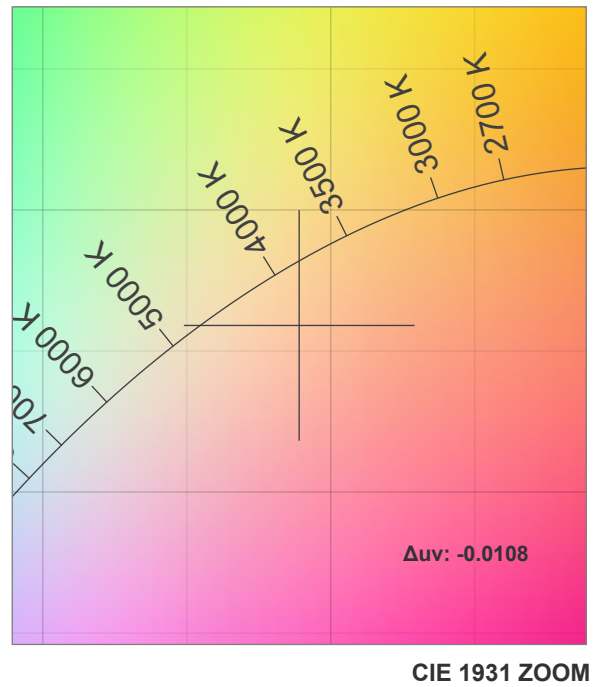
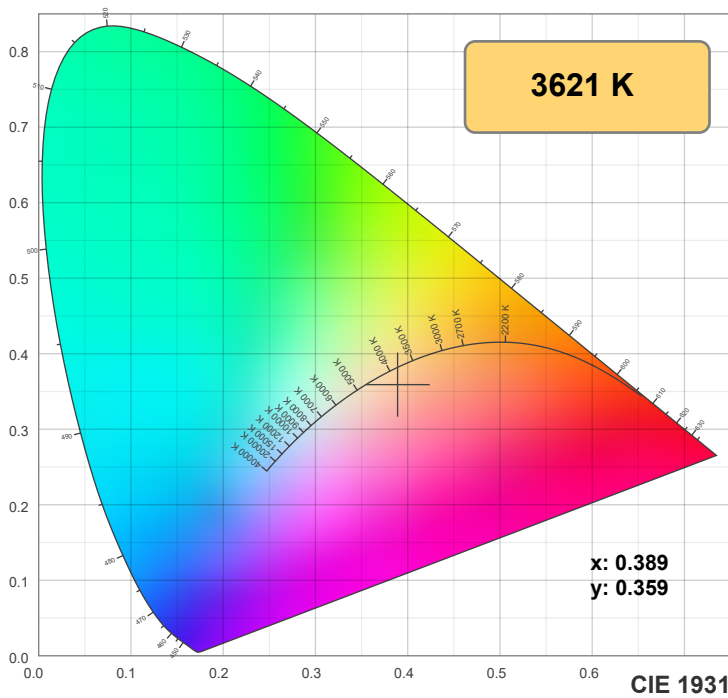
Spectra: Peak wavelength :631

Dominant wavelength :589

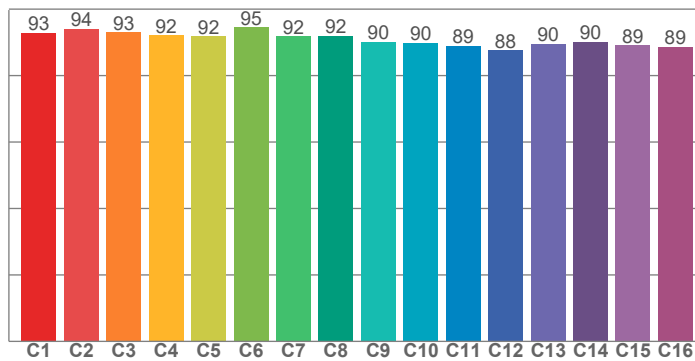


Power

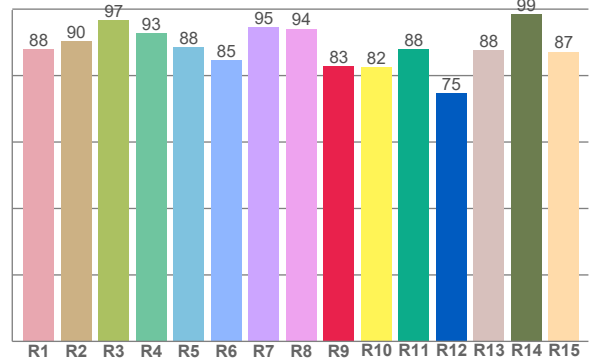
Voltage: 24.0 V
Current: 0.728 A
Frequency: 0 Hz



TM-30: 91.2



CRI: 91.2 (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
87.9	90.4	96.7	92.7	88.4	84.6	94.7	94.1	82.8	82.5	87.9	74.6	87.6	98.6	87.2

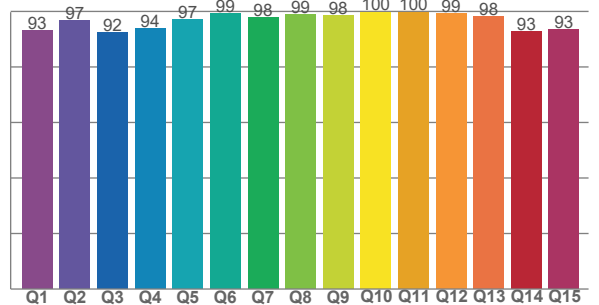
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.9	94.0	93.0	92.2	91.8	94.5	91.7	91.9	90.2	89.9	88.9	87.6	89.5	90.1	89.1	88.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93.0	96.7	92.3	93.8	97.1	99.3	97.7	98.9	98.5	99.7	99.7	99.2	98.0	92.7	93.4

CQS: 95.7



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
3621 K	91.2	82.8	91.2	102.7	95.7	0.389	0.359	0.238	0.330	-0.0108

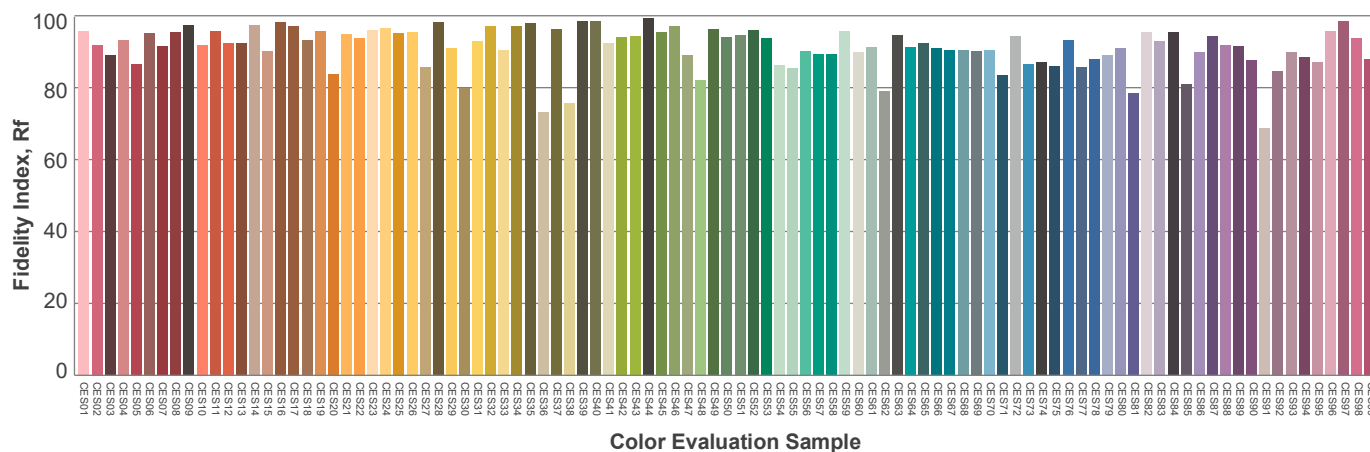
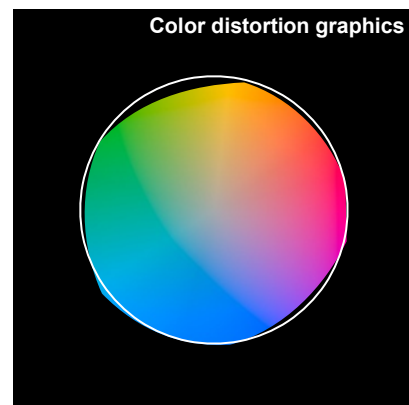
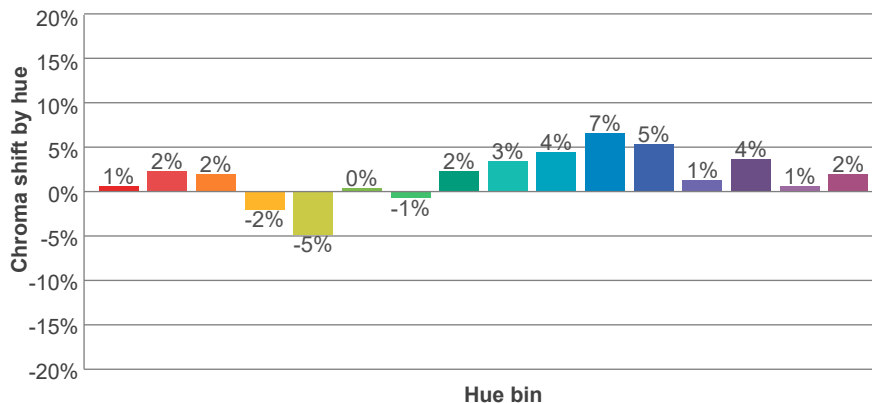
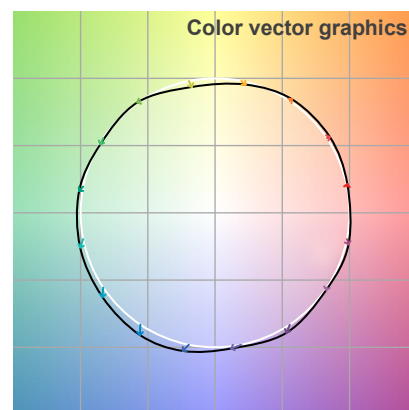
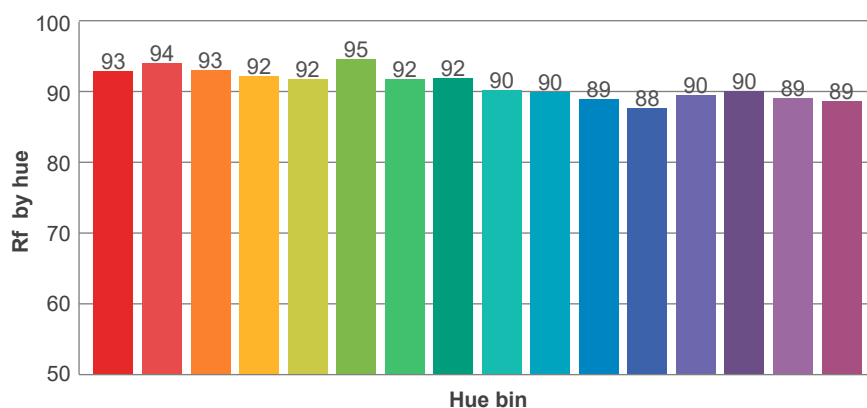
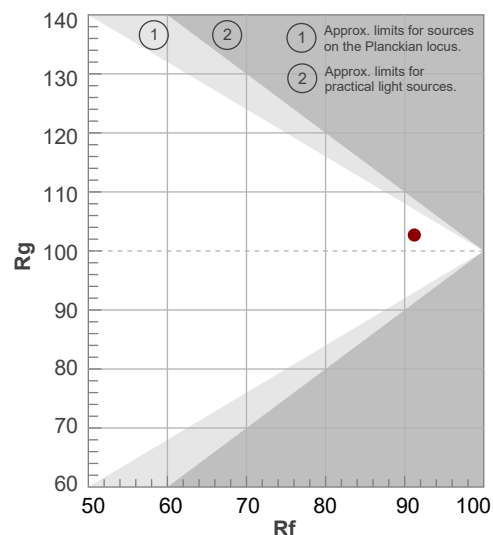
Rf 91.2

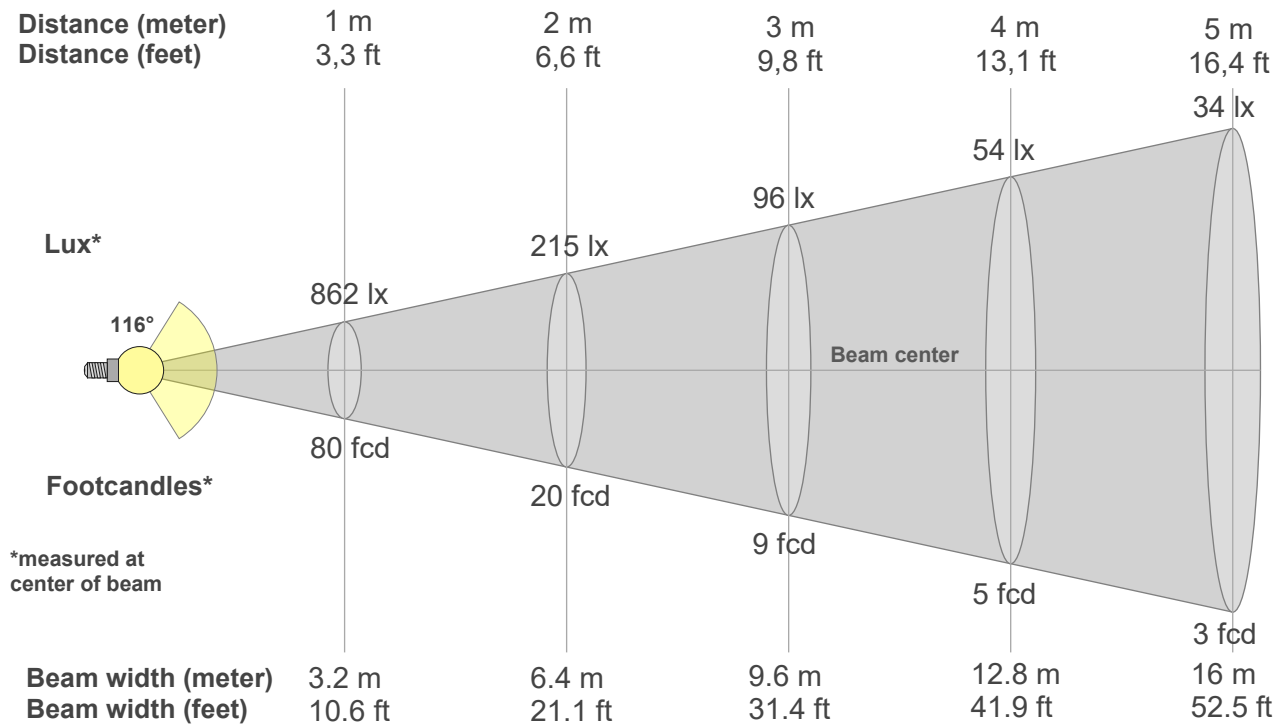
Fidelity index Rf

Rg 102.7

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	93	1%	2%
2	94	2%	0%
3	93	2%	-1%
4	92	-2%	-4%
5	92	-5%	-1%
6	95	0%	2%
7	92	-1%	5%
8	92	2%	4%
9	90	3%	6%
10	90	4%	6%
11	89	7%	4%
12	88	5%	-3%
13	90	1%	-8%
14	90	4%	-5%
15	89	1%	-2%
16	89	2%	-4%





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
862lx	215lx	96lx	54lx	34lx	24lx	18lx	13lx	11lx	9lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx	2lx
80.1fcd	20fcd	8.9fcd	5fcd	3.2fcd	2.2fcd	1.6fcd	1.3fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
862	861	851	835	813	783	748	707	660	606	547	482	412	337	259	181	107	46	10	1
100%	100%	99%	97%	94%	91%	87%	82%	77%	70%	63%	56%	48%	39%	30%	21%	12%	5%	1%	0%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
862	860	851	835	814	786	748	704	655	599	534	467	394	318	239	161	89	35	9	3
100%	100%	99%	97%	94%	91%	87%	82%	76%	70%	62%	54%	46%	37%	28%	19%	10%	4%	1%	0%

Intensities in 180° c-plane

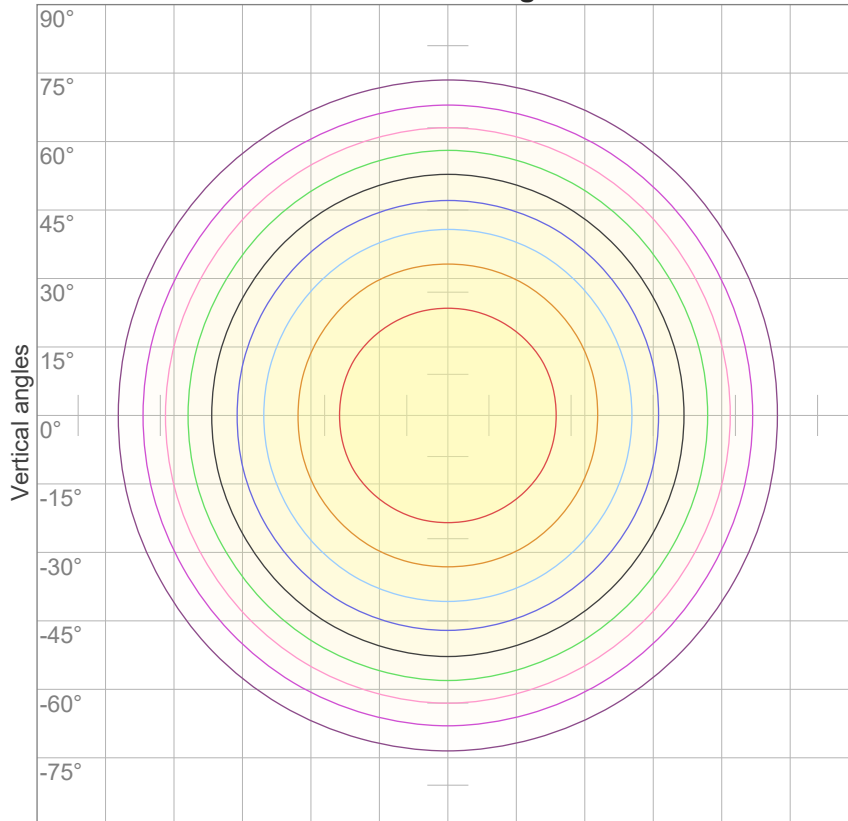
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
862	861	851	835	813	783	748	707	660	606	547	482	412	337	259	181	107	46	10	1
100%	100%	99%	97%	94%	91%	87%	82%	77%	70%	63%	56%	48%	39%	30%	21%	12%	5%	1%	0%

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
862	860	851	835	814	786	748	704	655	599	534	467	394	318	239	161	89	35	9	3
100%	100%	99%	97%	94%	91%	87%	82%	76%	70%	62%	54%	46%	37%	28%	19%	10%	4%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
116°	161.9°	175.5°	78.0%	52.6%

iso-candela diagram



Horizontal angles

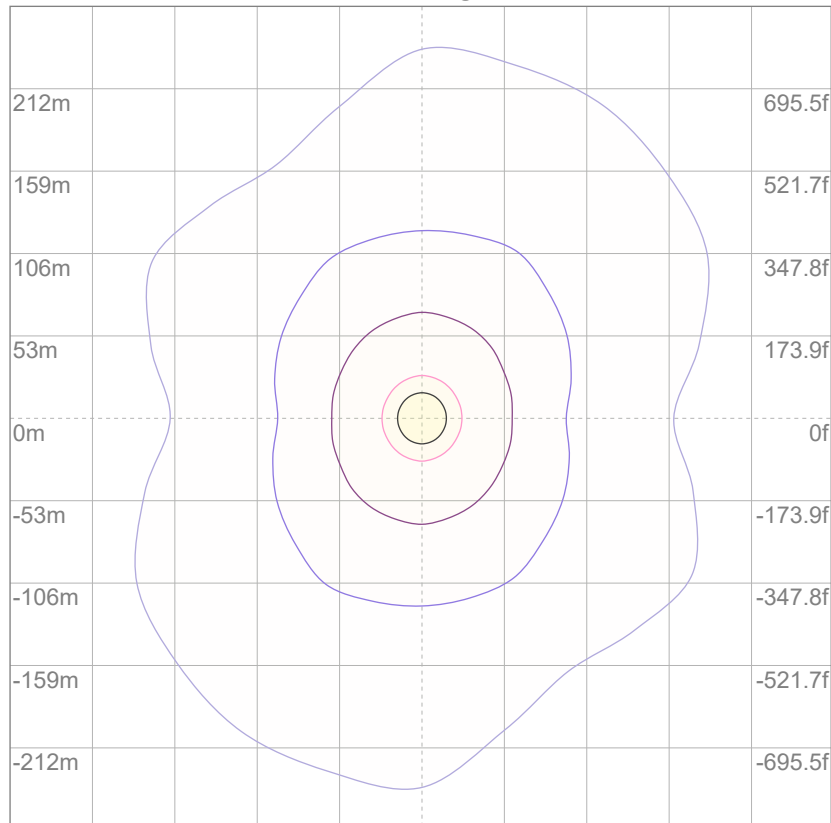
10%	86 cd
20%	172 cd
30%	259 cd
40%	345 cd
50%	431 cd
60%	517 cd
70%	603 cd
80%	689 cd
90%	776 cd

Conditions:

Number of c-planes: 12

Candela at center: 862 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0.259 lx
5%	0.431 lx
10%	0.862 lx
30%	2.59 lx
50%	4.31 lx

Conditions:

Number of c-planes: 12

Lux at center: 8.62 lx

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

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				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
CIE 117-1995. Corrected glare indices referring to 2577 lm total luminous flux										

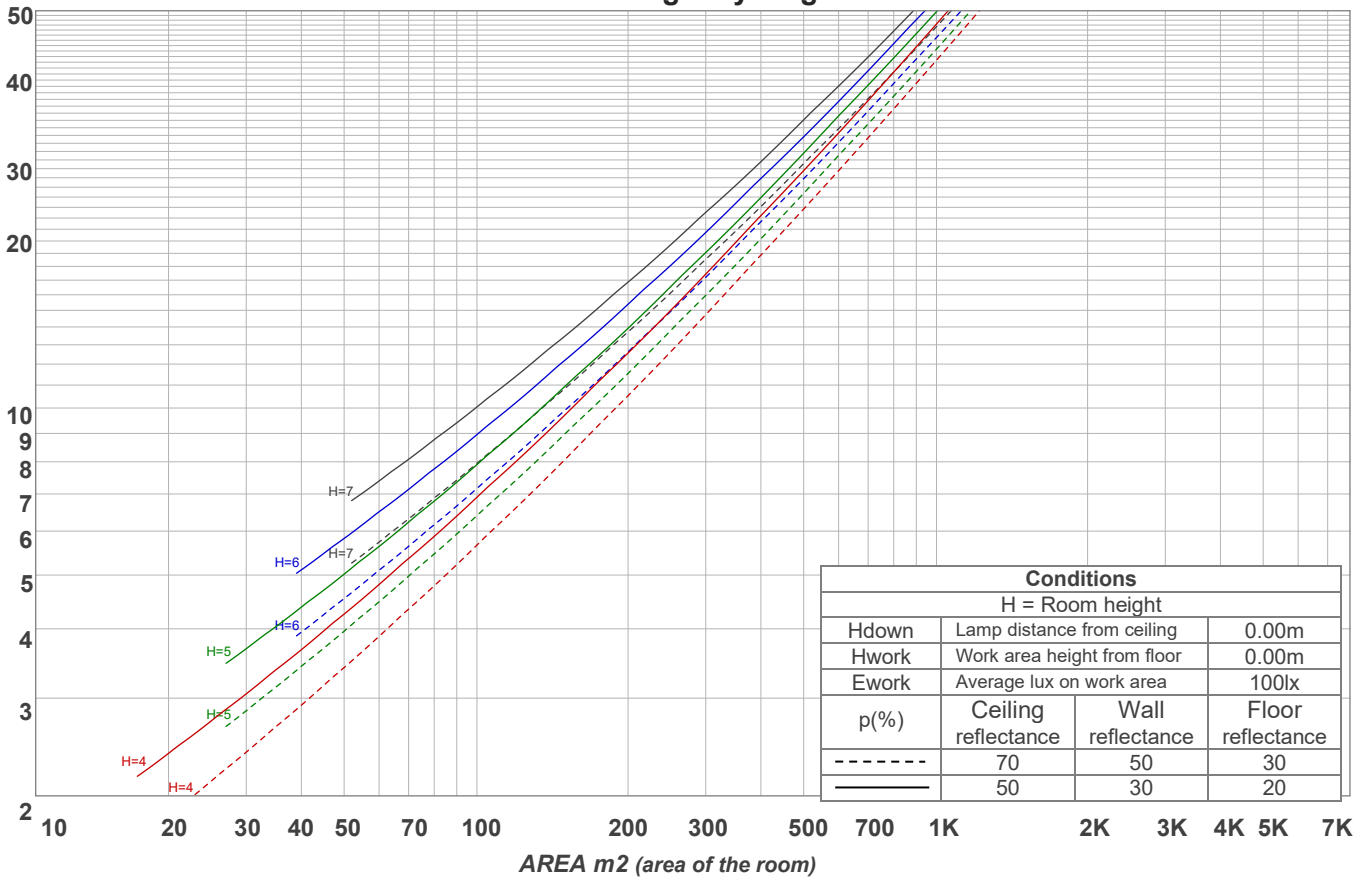
UGR data could not be calculated due to missing/wrong symmetry. Go to Edit -> Photometric -> Corrections and select Correct asymmetry (UGR not defined for asymmetrical distributions)..

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	101	101	101	99
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	36	30	25	23

LAMPS (number of lamps)

Luminaire budgetary diagram



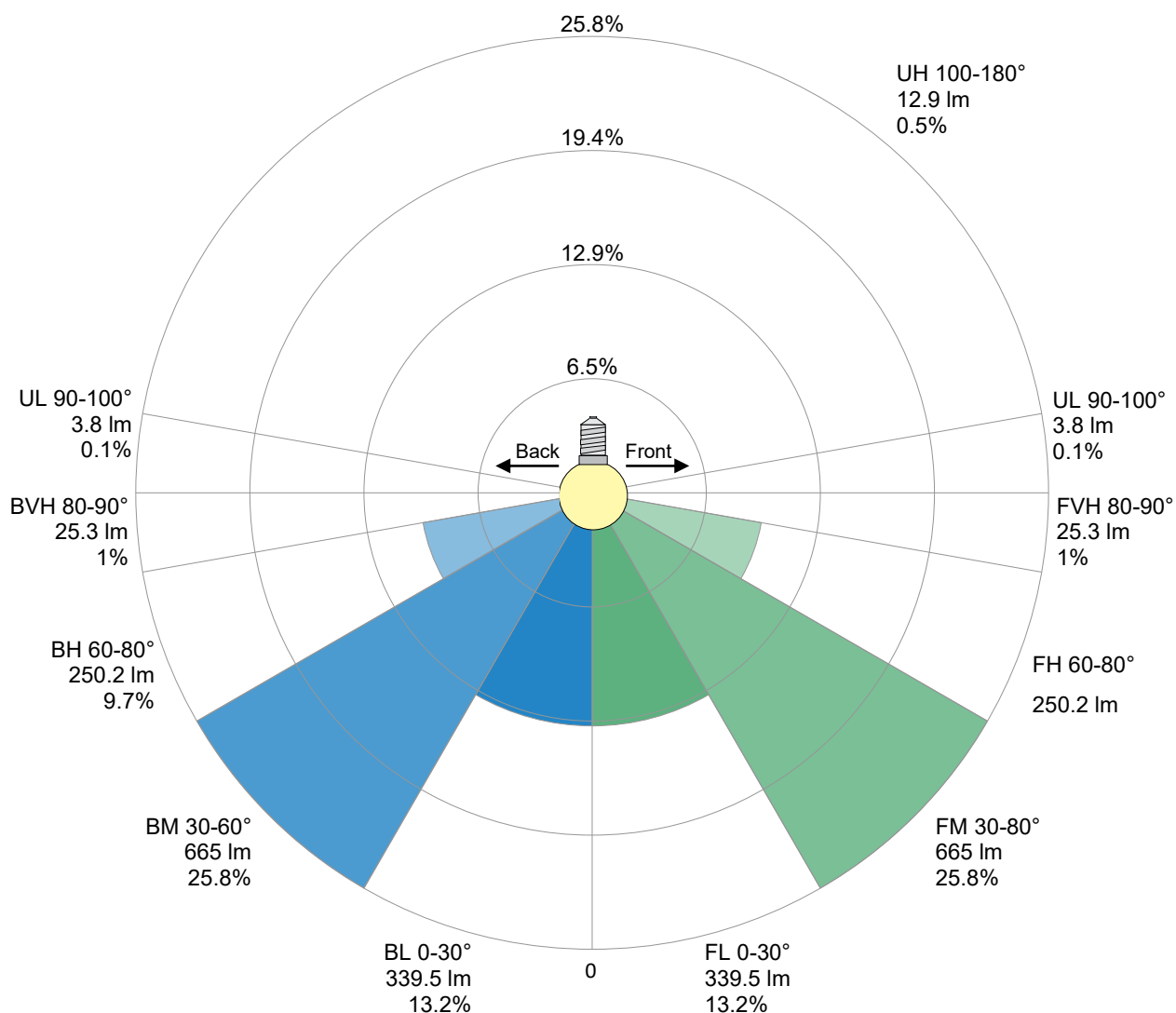
Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
81.8 lm	236 lm	362 lm	442 lm	465 lm	423 lm	321 lm	179 lm	49.8 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
3.58 lm	1.86 lm	2.06 lm	2.21 lm	2.14 lm	1.94 lm	1.49 lm	0.931 lm	0.306 lm

LCS table

BUG rating:	B1 U2 G1	
Forward light	Lumens	Lumens %
Low(0-30):	339.5	13.2%
Medium(30-60):	665	25.8%
High(60-80):	250.2	9.7%
Very high(80-90):	25.3	1%
Back light		
Low(0-30):	339.5	13.2%
Medium(30-60):	665	25.8%
High(60-80):	250.2	9.7%
Very high(80-90):	25.3	1%
Uplight		
Low(90-100):	3.8	0.1%
High(100-180):	12.9	0.5%

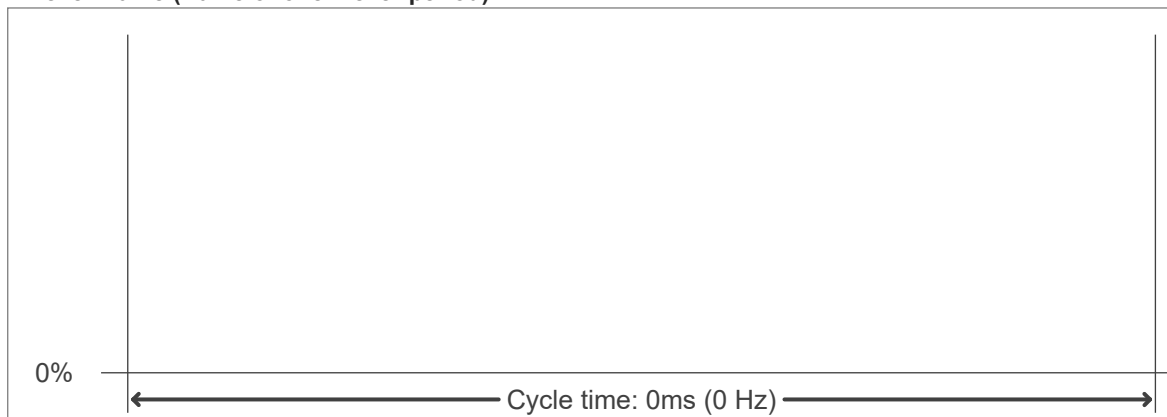
LCS graph



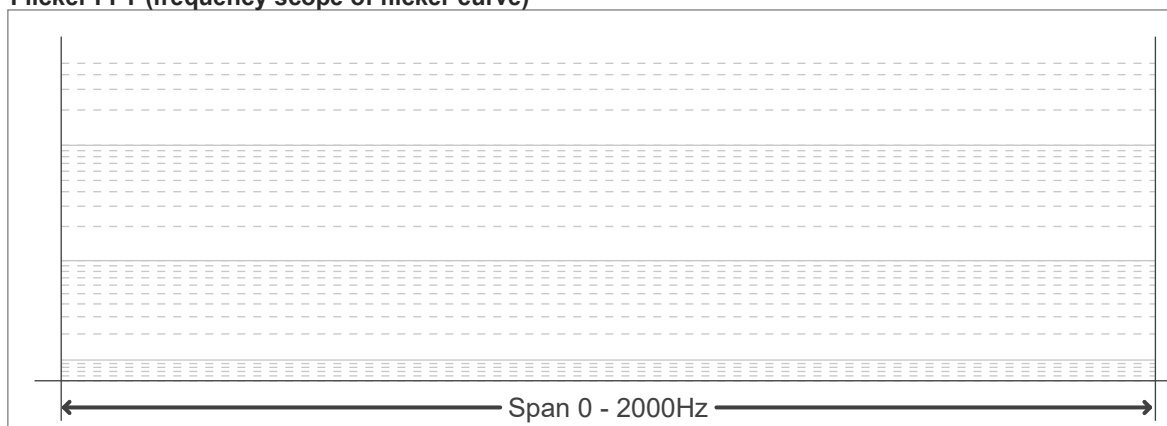
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:		n/a Hz	
Flicker index:	n/a	JA8/10 40Hz	n/a %
Flicker percentage:	n/a %	JA8/10 90Hz	n/a %
SVM: (Visual flicker)	n/a	JA8/10 200Hz	n/a %
PstLM	n/a	JA8/10 400Hz	n/a %
Mp	n/a	JA8/10 1000Hz	n/a %

Flicker conditions:

Sample rate:	n/a samples/second
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