

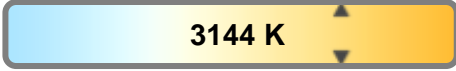
Light efficiency:



Light quality:



Color temperature:



Output: 741 lm

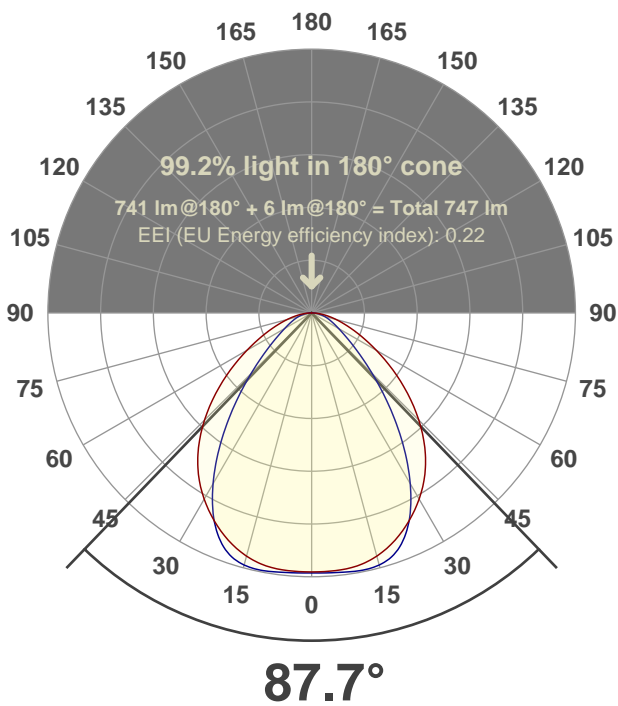
Peak: 363 cd

Power: 10.0 W

PF: 0.99



Beam angle



Luminaire Model:

201-LED-930-UN225

Test Number:

004_1-21-2021

Date and time:

1/21/2021 9:32:13 PM

Description:

12" Fixture
3000K 92+ CRI
Veiling Acrylic

LUM: 741

PPF: 12.9

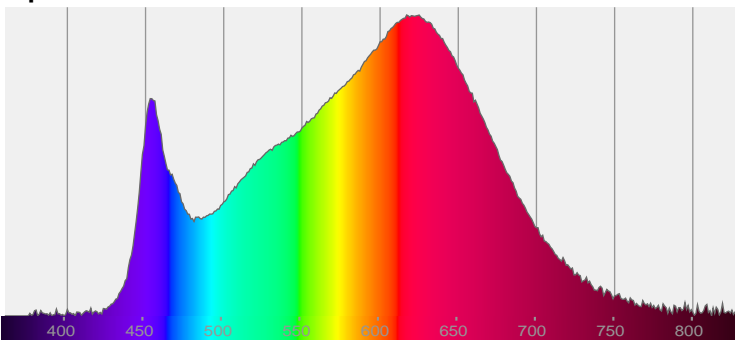
Beam Angle* @ 0° = 98.4°

Beam Angle* @ 90° = 77°

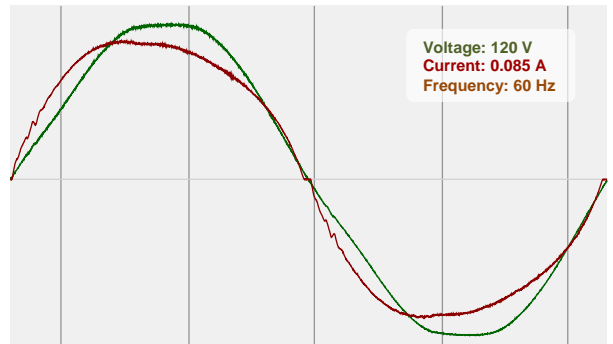


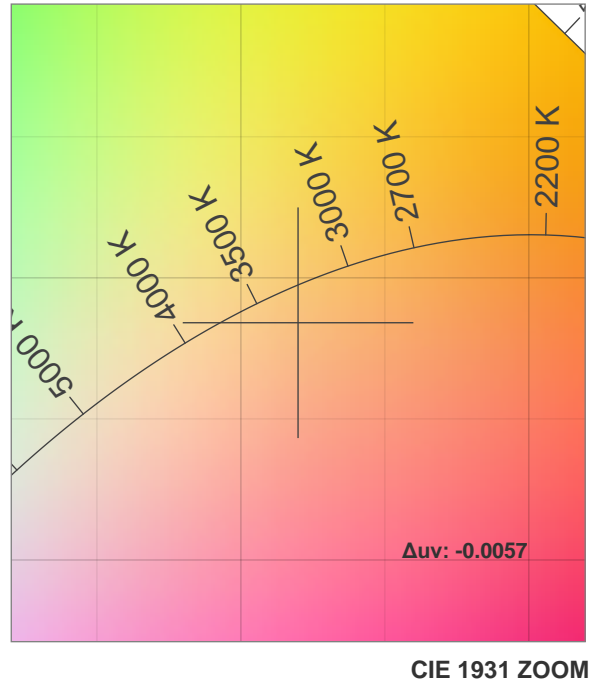
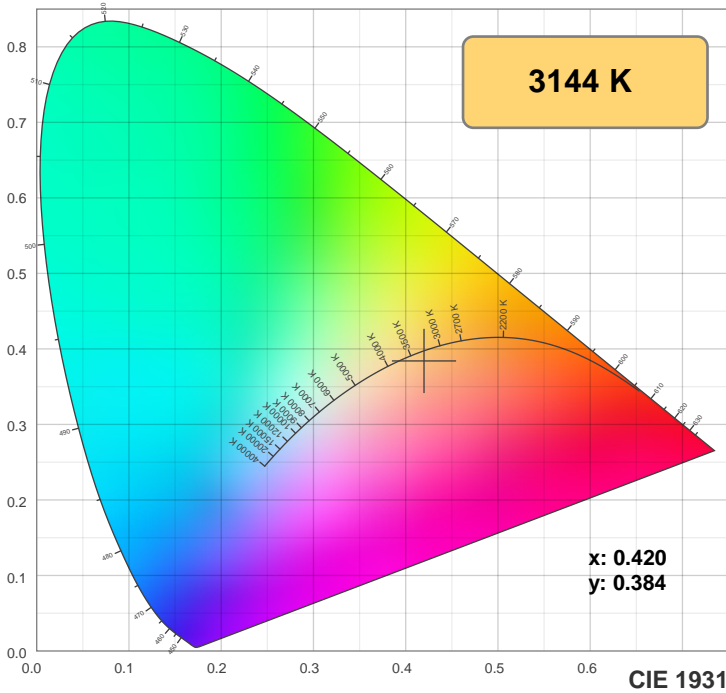
CIE 1931
x: 0.420
y: 0.384

Spectra

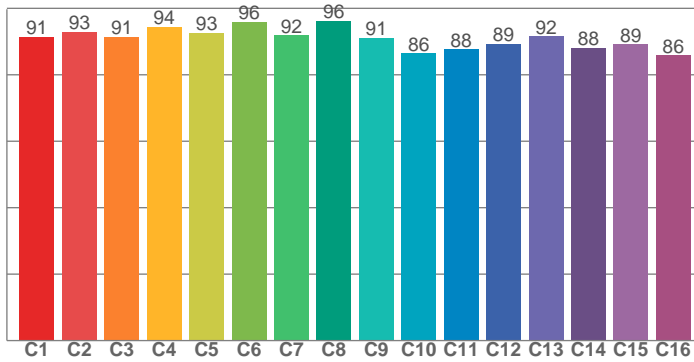


Power

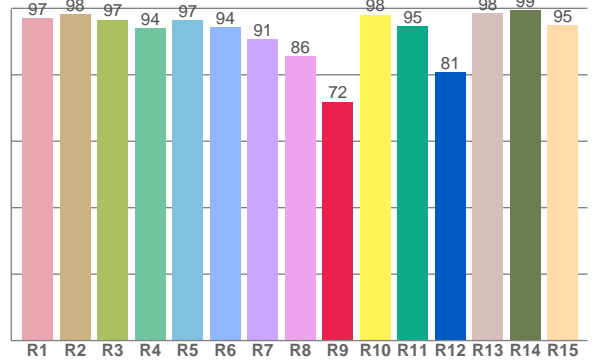




TM30: 91.1



CRI: 94.1 (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
96.9	98.2	96.6	94.0	96.5	94.4	90.7	85.7	71.9	98.0	94.7	80.7	98.5	99.4	95.0

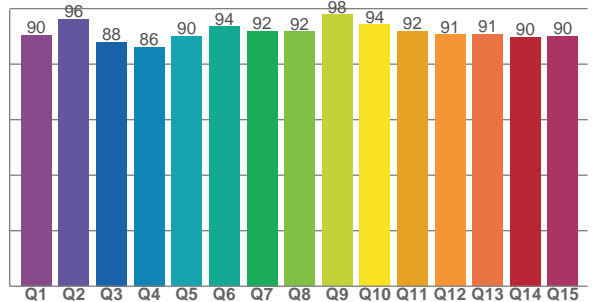
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.3	92.9	91.4	94.4	92.6	95.9	91.8	96.2	91.1	86.5	87.7	89.3	91.5	88.0	89.1	85.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90.4	96.1	87.9	86.1	90.1	93.5	91.9	91.7	97.8	94.3	92.0	90.7	90.7	89.9	90.0

CQS: 91.0



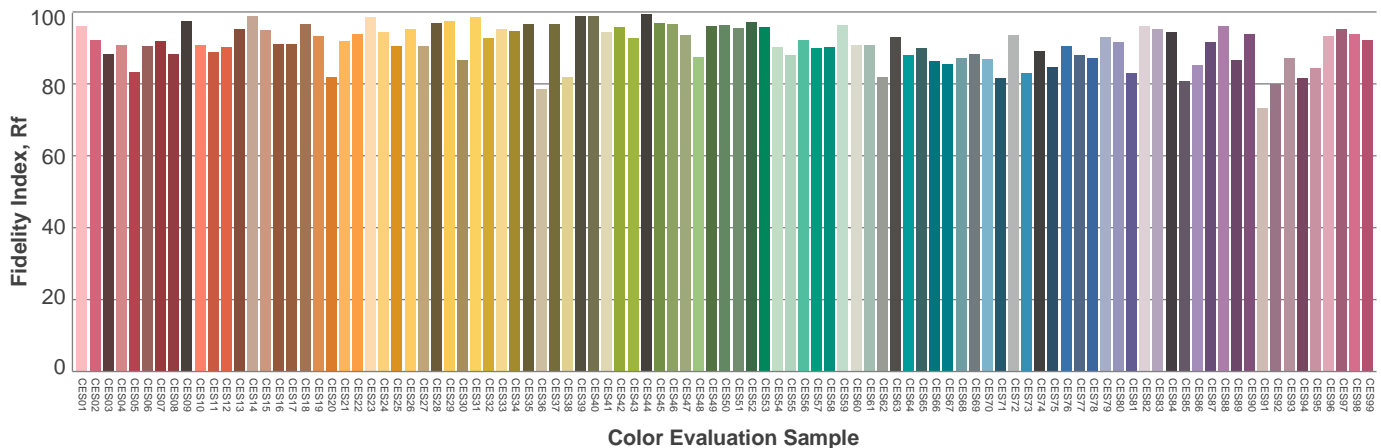
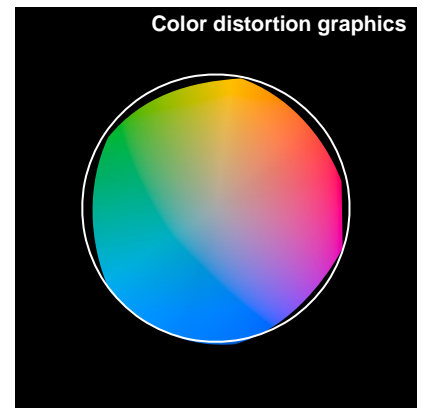
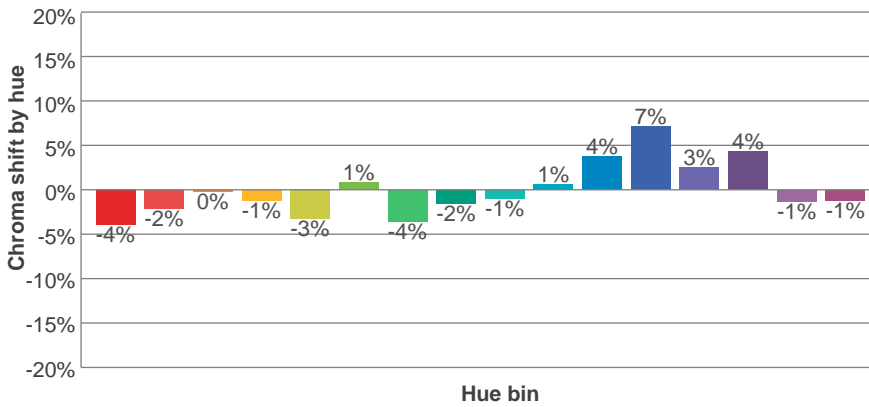
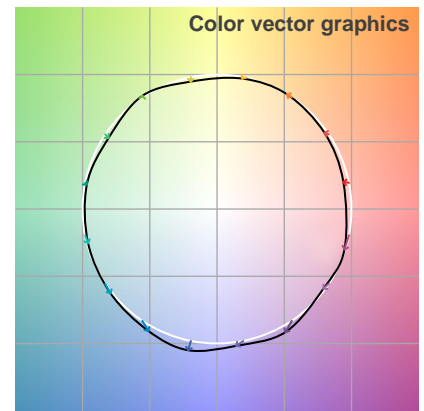
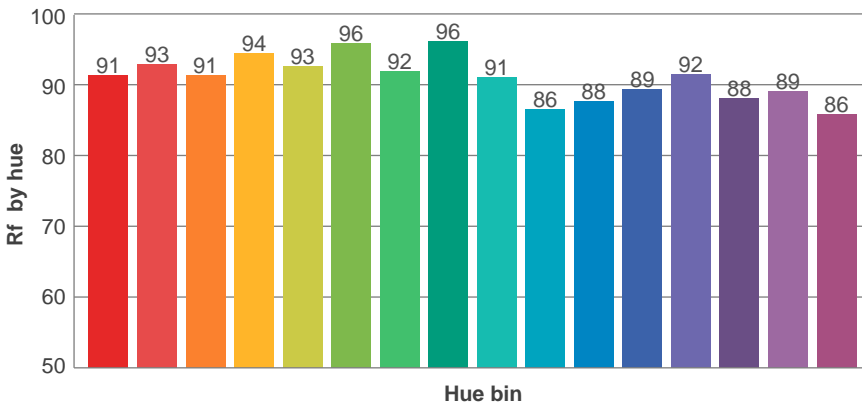
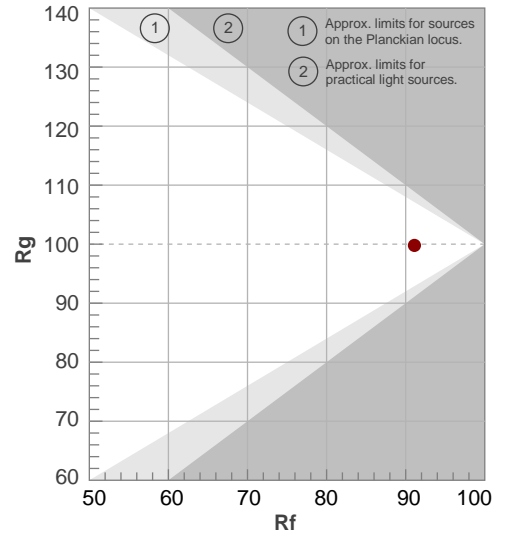
Color parameters

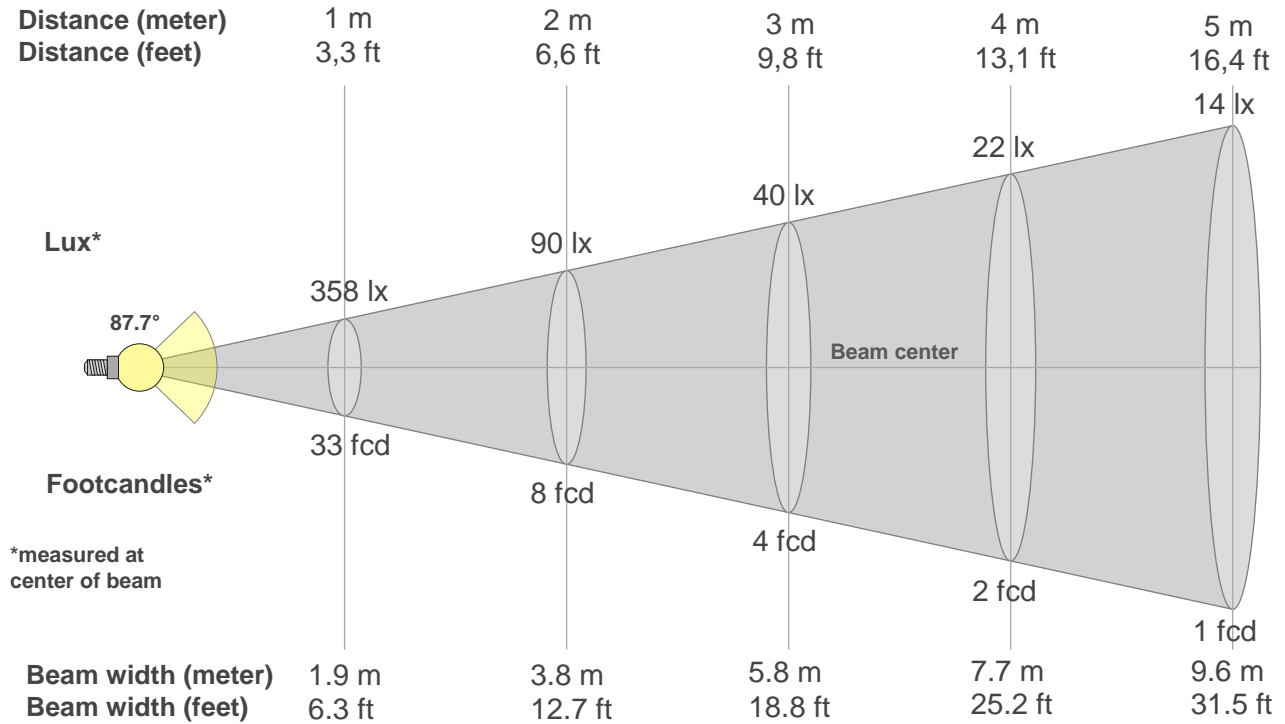
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
3144 K	94.1	71.9	91.1	99.8	91.0	0.420	0.384	0.248	0.340	-0.0057

R_f 91.1
Fidelity index R_f

R_g 99.8
Gamut index R_g

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	1%
2	93	-2%	3%
3	91	0%	4%
4	94	-1%	0%
5	93	-3%	1%
6	96	1%	-1%
7	92	-4%	1%
8	96	-2%	1%
9	91	-1%	6%
10	86	1%	8%
11	88	4%	8%
12	89	7%	-1%
13	92	3%	-6%
14	88	4%	-9%
15	89	-1%	-5%
16	86	-1%	-11%





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
358lx	90lx	40lx	22lx	14lx	10lx	7lx	6lx	4lx	4lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx
33.3fcd	8.3fcd	3.7fcd	2.1fcd	1.3fcd	0.9fcd	0.7fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

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°
358	358	356	348	335	318	297	273	243	209	173	137	104	75	53	35	21	10	2	0
100%	100%	99%	97%	94%	89%	83%	76%	68%	58%	48%	38%	29%	21%	15%	10%	6%	3%	0%	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°
358	361	362	361	348	318	273	219	165	119	83	59	43	33	25	18	12	6	2	0
100%	101%	101%	101%	97%	89%	76%	61%	46%	33%	23%	16%	12%	9%	7%	5%	3%	2%	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°
358	358	356	348	335	318	297	273	243	209	173	137	104	75	53	35	21	10	2	0
100%	100%	99%	97%	94%	89%	83%	76%	68%	58%	48%	38%	29%	21%	15%	10%	6%	3%	0%	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°
358	361	362	361	348	318	273	219	165	119	83	59	43	33	25	18	12	6	2	0
100%	101%	101%	101%	97%	89%	76%	61%	46%	33%	23%	16%	12%	9%	7%	5%	3%	2%	1%	0%

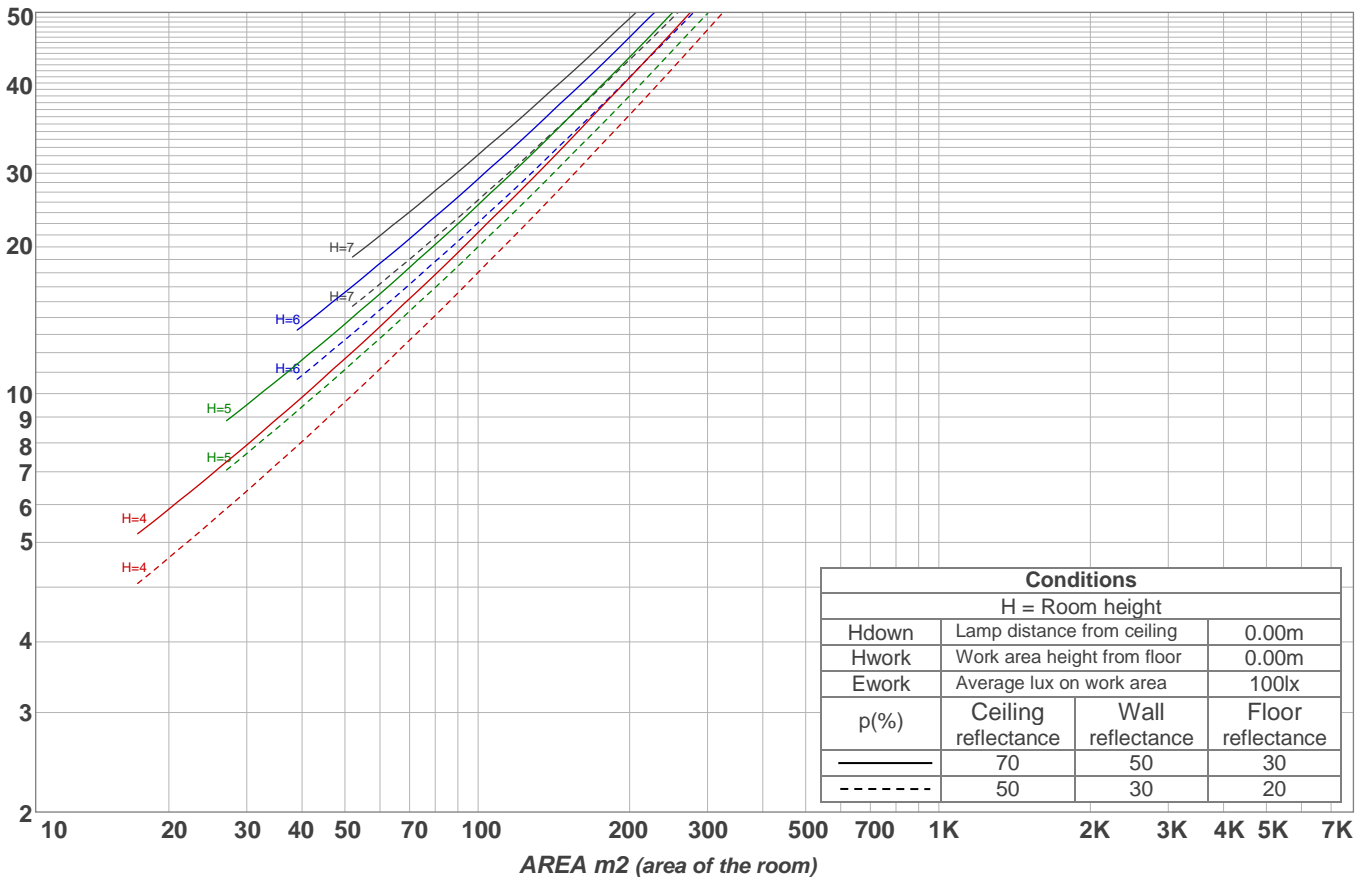
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
87.7°	137.9°	168°	87.7%	68.4%

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	110	106	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58
5	81	70	62	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52
6	75	63	55	50	74	62	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34
10	58	46	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31

Luminaire budgetary diagram

LAMPS (number of lamps)



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
34.3 lm	100 lm	149 lm	158 lm	129 lm	85.2 lm	50.4 lm	26.7 lm	8.81 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm

This Page Intentionally Left Blank