



Product name:
DC24-5.3_DRY_RGB_ALL

Date:
6/26/2017

Powering product:
IQ-PH-80-120/24

Output: 224 lm/ft

Peak: 75.1 cd

Power: 5.3 W/ft

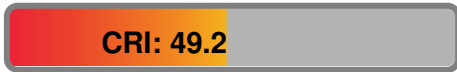
PF: 1.0



Light efficiency:



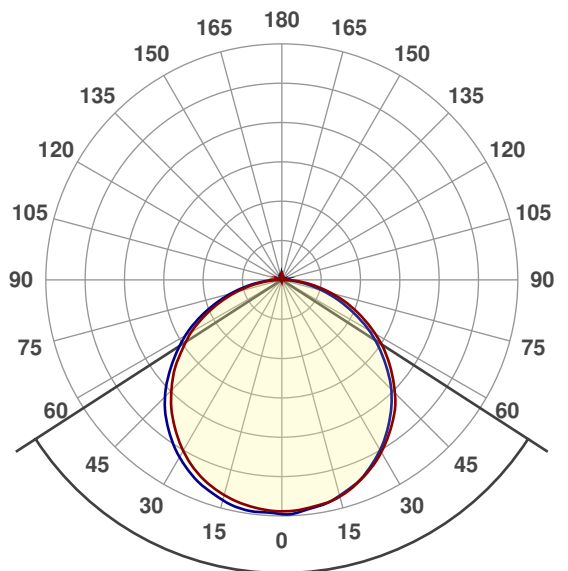
Light quality:



Color temperature:



Beam Angle

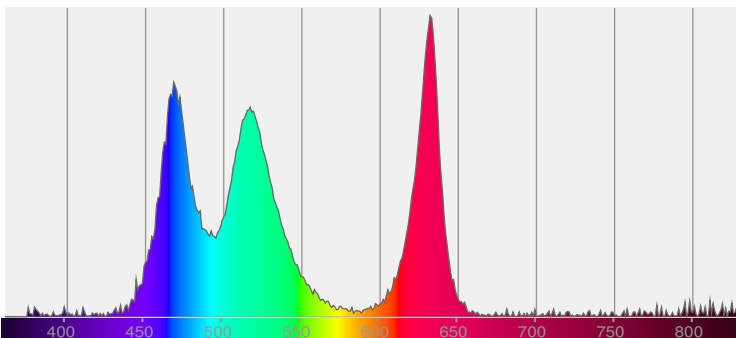


114.3°

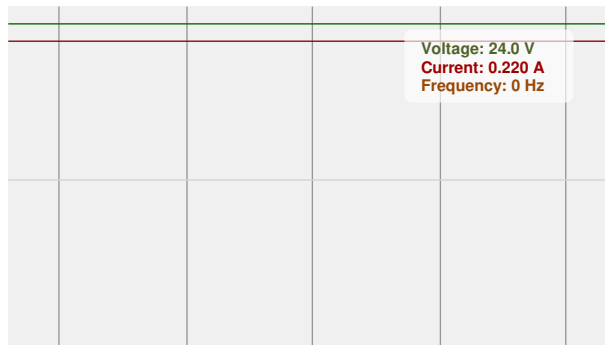


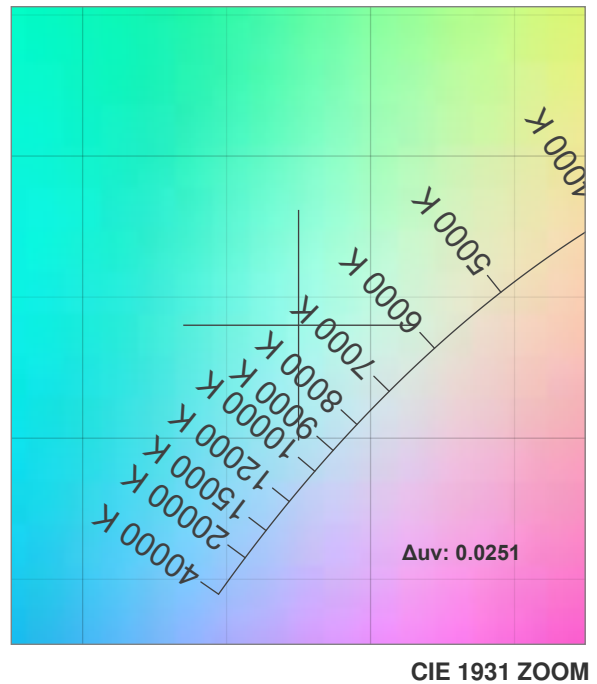
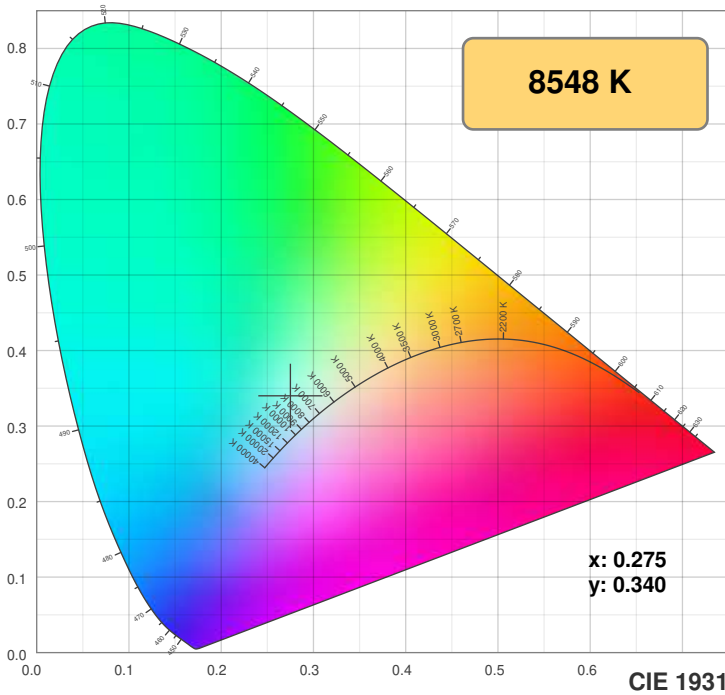
CIE 1931
x: 0.275
y: 0.340

Spectra



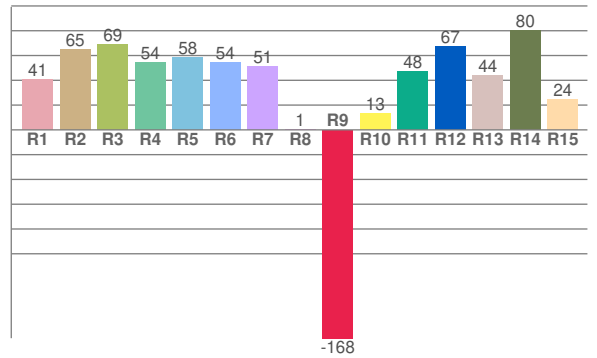
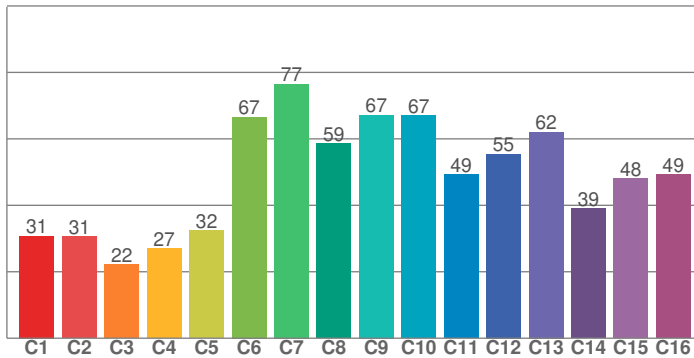
Power





TM30: 47.8

CRI: 49.2 (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
40.6	64.9	69.2	54.5	58.3	54.5	51.1	0.5	-168.1	13.1	47.5	67.4	44.3	80.2	24.4

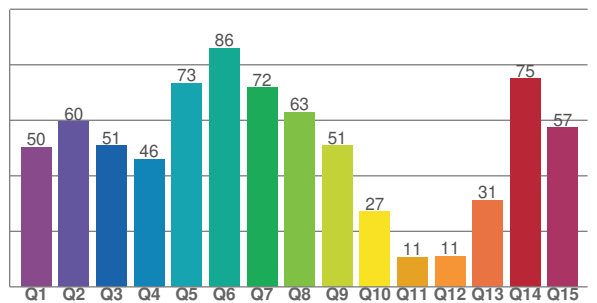
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
30.8	30.7	22.1	26.9	32.4	66.6	76.5	58.7	67.2	67.1	49.3	55.5	62.0	39.0	48.1	49.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
50.4	59.5	50.9	46.1	73.5	86.1	71.8	62.9	50.9	27.1	10.6	11.0	31.2	75.1	57.4

CQS: 45.3



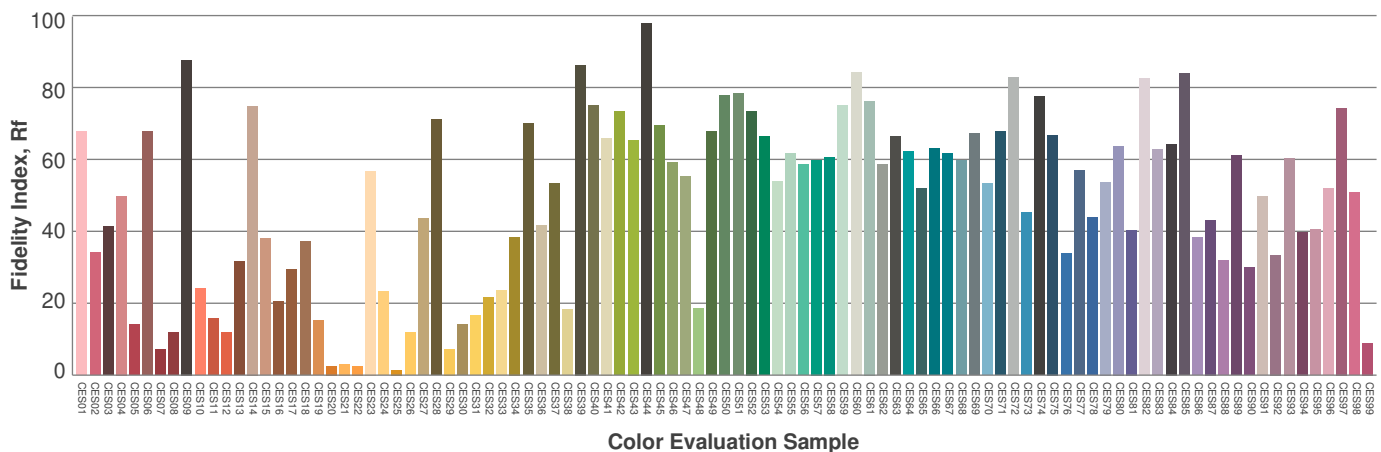
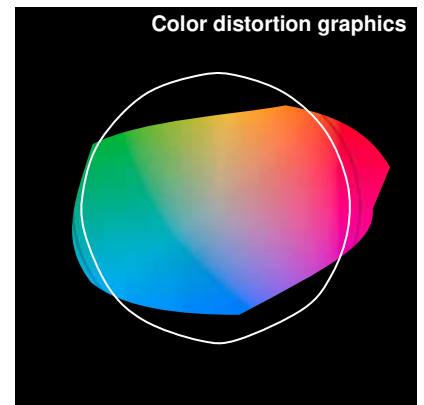
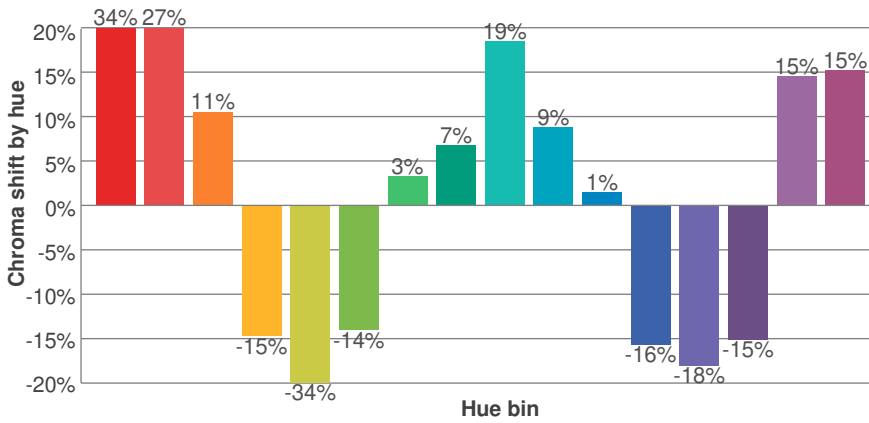
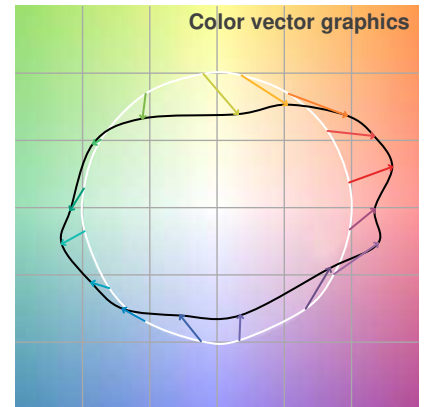
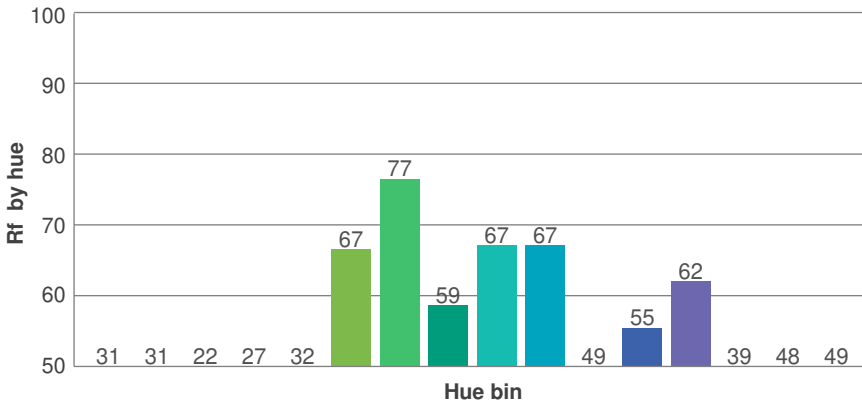
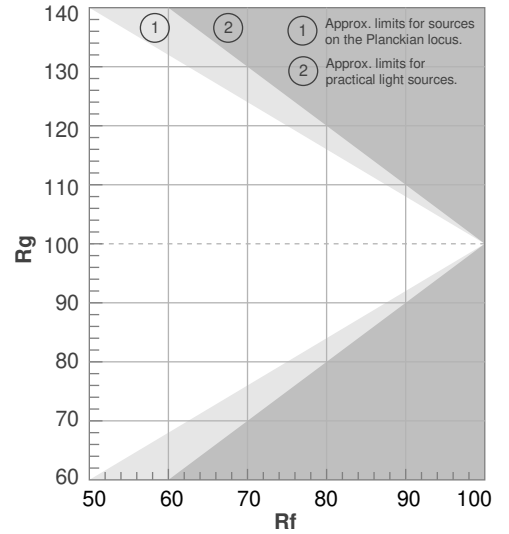
Color parameters

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
8548 K	49.2	-168.1	47.8	95.5	45.3	0.275	0.340	0.168	0.312	0.0251

Rf 47.8
Fidelity index Rf

Rg 95.5
Gammut index Rg

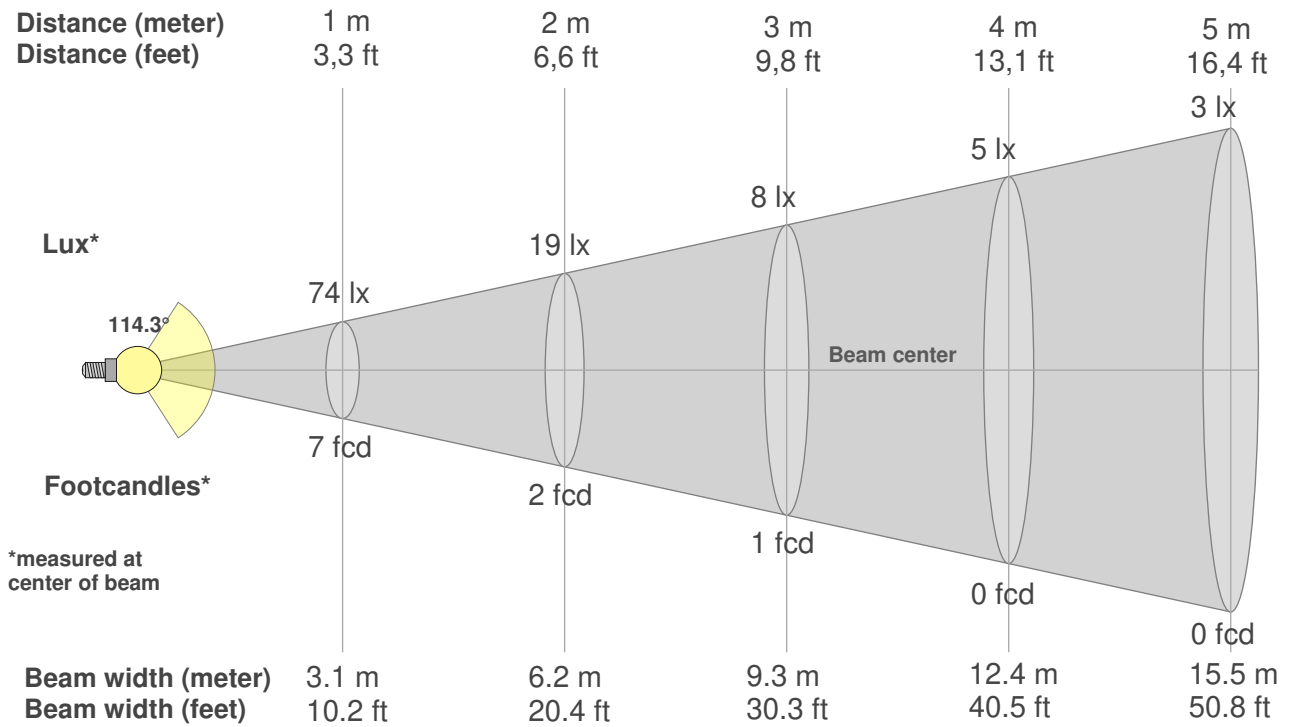
		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	31	34%	5%
2	31	27%	-22%
3	22	11%	-45%
4	27	-15%	-37%
5	32	-34%	-19%
6	67	-14%	12%
7	77	3%	6%
8	59	7%	18%
9	67	19%	6%
10	67	9%	-11%
11	49	1%	-19%
12	55	-16%	-19%
13	62	-18%	4%
14	39	-15%	32%
15	48	15%	37%
16	49	15%	19%





Beam Details

DC24-5.3_DRY_RGB_ALL



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
74lx	19lx	8lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
6.9fcd	1.7fcd	0.8fcd	0.4fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

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°
74.5	73.7	73.0	71.7	69.6	66.9	63.7	60.0	55.9	51.2	45.9	40.4	34.6	28.5	22.6	16.5	10.8	5.7	1.9	0.6
100%	99%	98%	96%	93%	90%	85%	80%	75%	69%	62%	54%	46%	38%	30%	22%	14%	8%	3%	1%

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°
74.5	74.3	73.2	71.5	69.4	66.4	62.9	58.8	54.4	49.5	43.9	38.1	32.2	25.7	19.6	13.7	8.4	3.8	1.1	0.4
100%	100%	98%	96%	93%	89%	84%	79%	73%	66%	59%	51%	43%	35%	26%	18%	11%	5%	1%	1%

Intensities in 180° c-plane

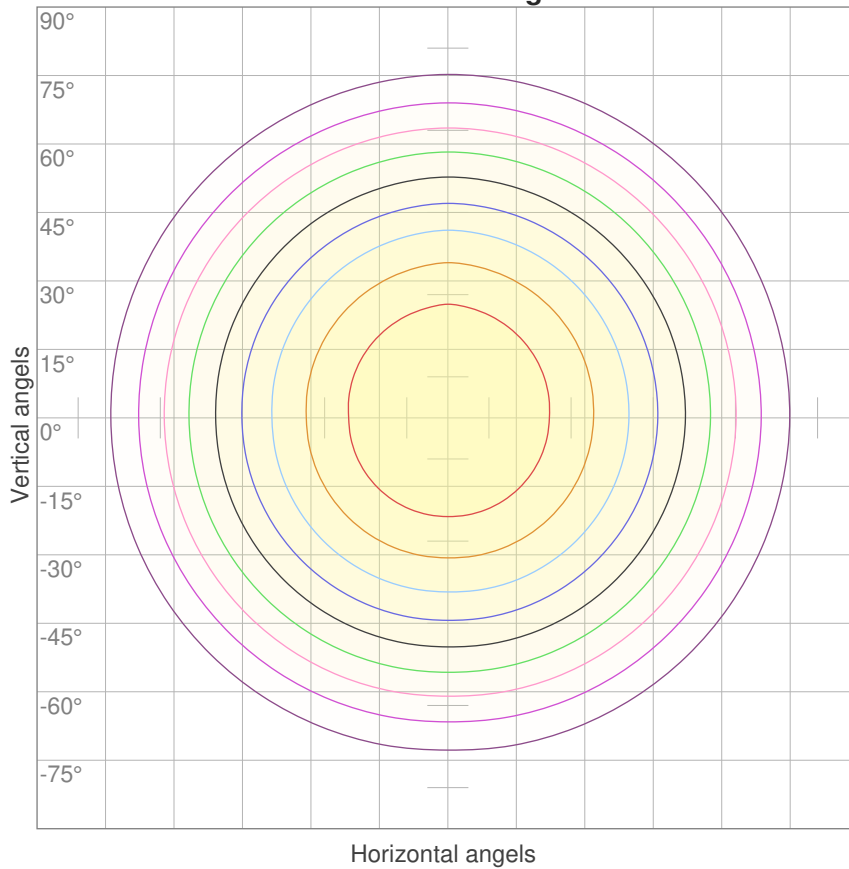
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
74.5	73.7	72.7	71.3	69.3	66.5	63.1	59.1	54.9	50.0	44.8	39.0	33.5	27.3	21.2	15.2	9.6	4.5	1.0	0.4
100%	99%	98%	96%	93%	89%	85%	79%	74%	67%	60%	52%	45%	37%	28%	20%	13%	6%	1%	0%

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°
74.5	74.7	74.3	73.0	71.0	68.6	65.5	61.8	57.6	52.8	47.3	41.4	35.6	29.4	23.1	16.9	11.2	6.0	2.6	0.9
100%	100%	100%	98%	95%	92%	88%	83%	77%	71%	63%	56%	48%	40%	31%	23%	15%	8%	3%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114.3°	164.9°	179.2°	76.2%	51.6%

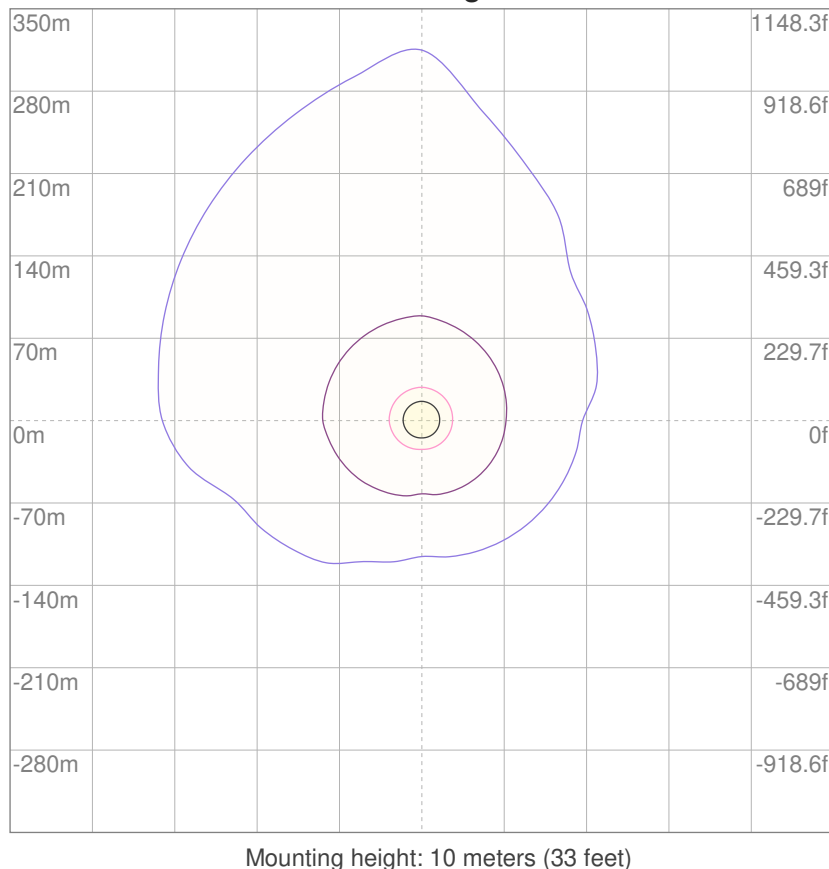
ISO candela diagram



10%	7 cd
20%	15 cd
30%	22 cd
40%	30 cd
50%	37 cd
60%	45 cd
70%	52 cd
80%	60 cd
90%	67 cd

Conditions:
 Number of c-planes: 4
 Candela at center: 74 cd

ISO lux diagram



3%	22.3m lx
5%	37.2m lx
10%	74.5m lx
30%	0.223 lx
50%	0.372 lx

Conditions:
 Number of c-planes: 4
 Lux at center: 0.745 lx

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

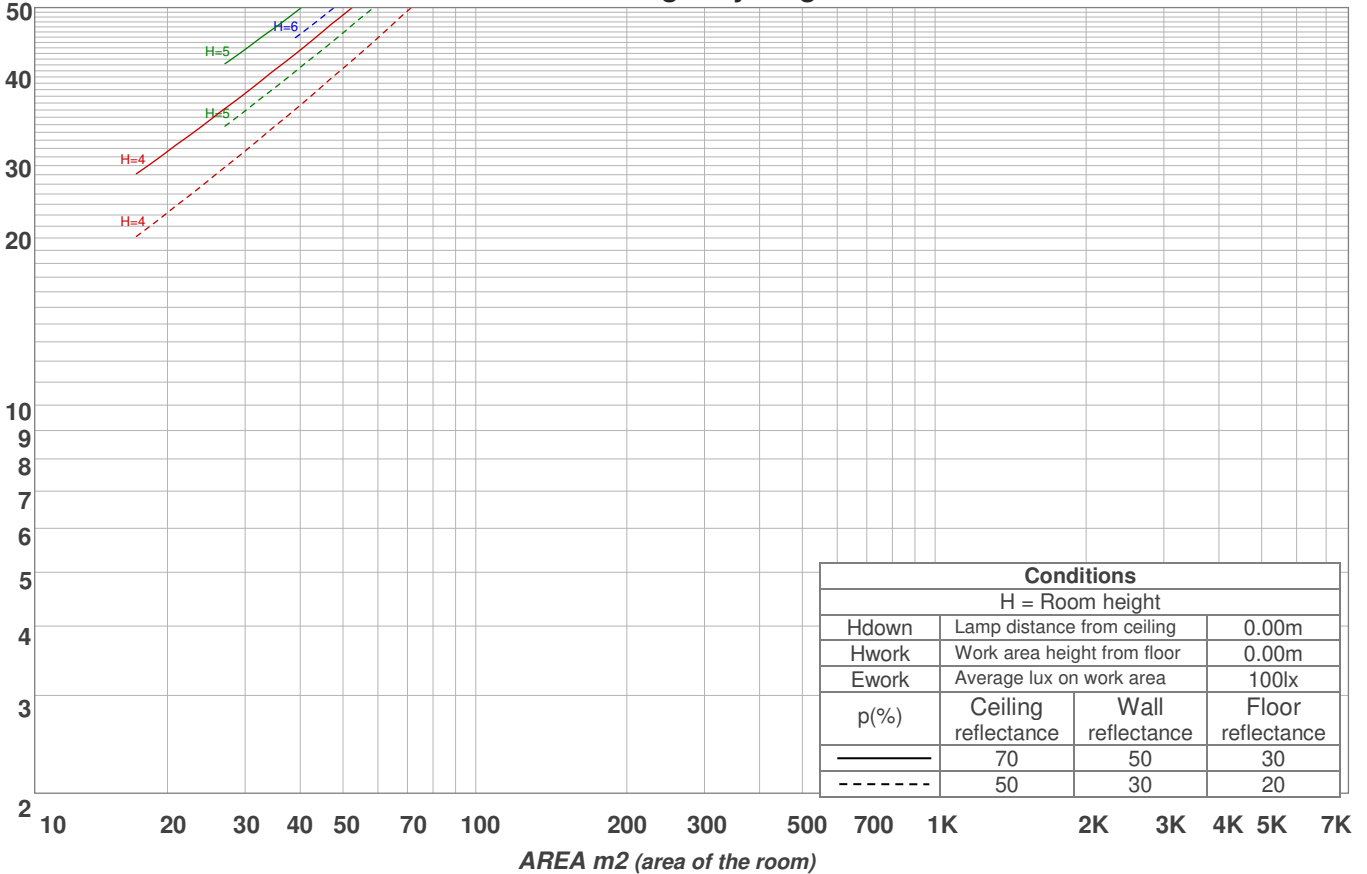


Coefficients of Utilization

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	110	110	110	105	105	105	101	101	101	98
1	108	103	99	95	105	101	96	93	96	93	90	92	89	87	88	86	84	81
2	98	89	82	77	95	87	81	76	84	78	73	80	76	72	77	73	70	67
3	89	78	70	63	86	77	69	63	73	67	61	70	65	60	68	63	59	57
4	82	69	60	54	79	68	60	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	48	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	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°
7.05 lm	20.3 lm	31.0 lm	37.5 lm	39.2 lm	35.5 lm	27.5 lm	16.5 lm	5.77 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.810 lm	0.563 lm	0.501 lm	0.471 lm	0.451 lm	0.357 lm	0.271 lm	0.162 lm	0.058 lm



Product name:
DC24-5.3_DRY_RGB_R

Date:
6/26/2017

Powering product:
IQ-PH-80-120/24

Output: 63.1 lm/ft

Peak: 19.7 cd

Power: 1.9 W/ft

PF: 1.0



Light efficiency:



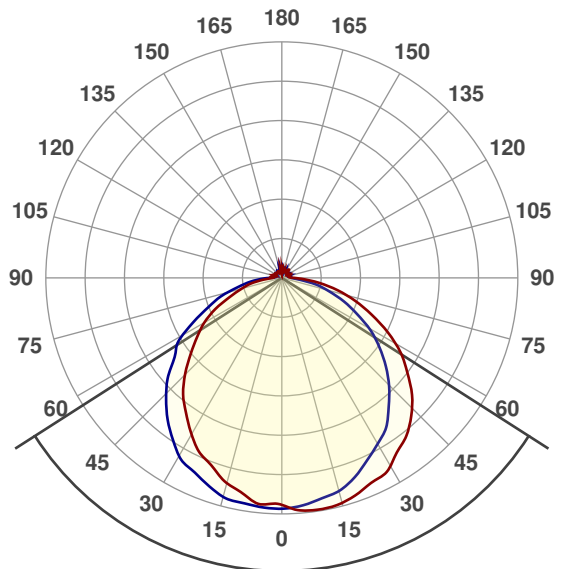
Light quality:



Color temperature:



Beam Angle

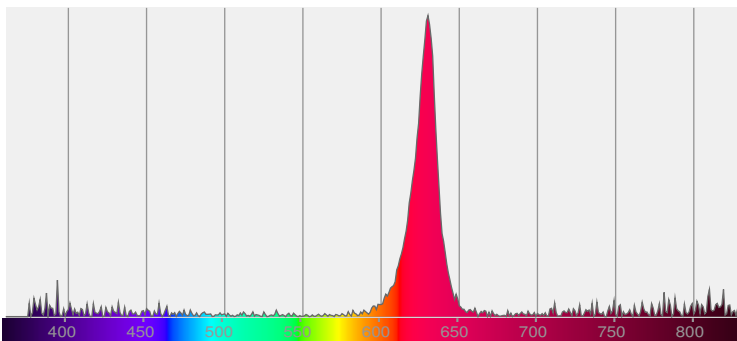


114.7°

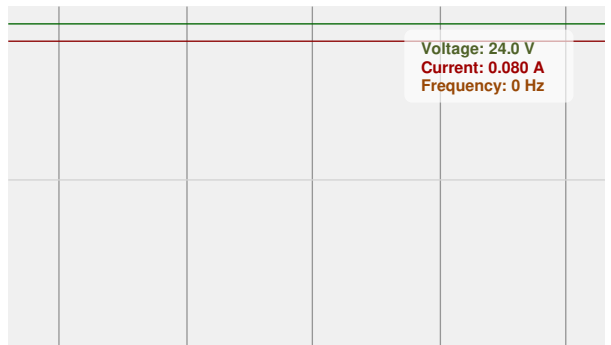


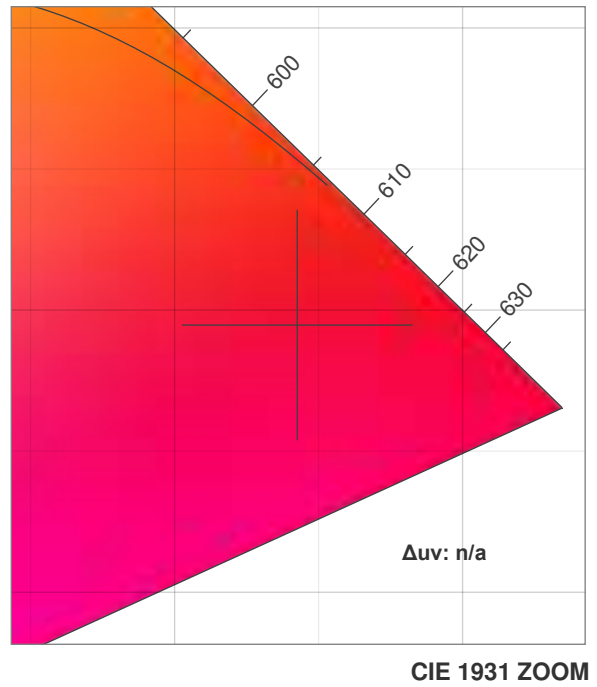
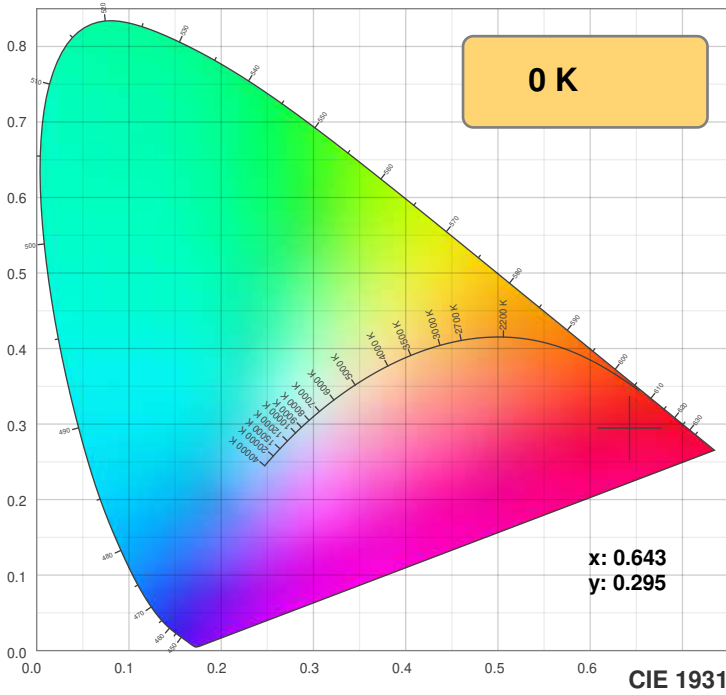
CIE 1931
x: 0.643
y: 0.295

Spectra



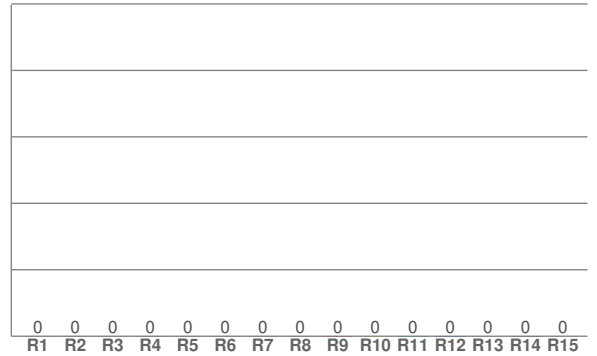
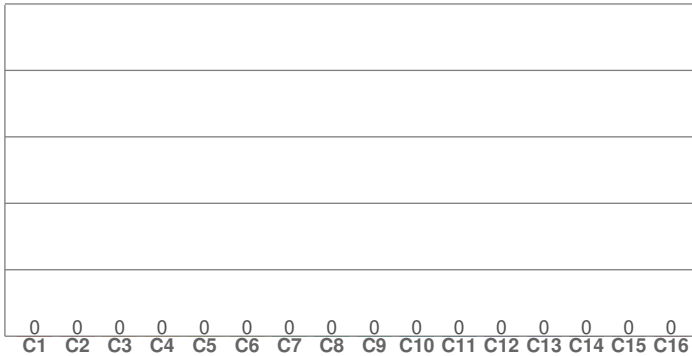
Power





TM30: 0.0

CRI: 0.0 (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
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

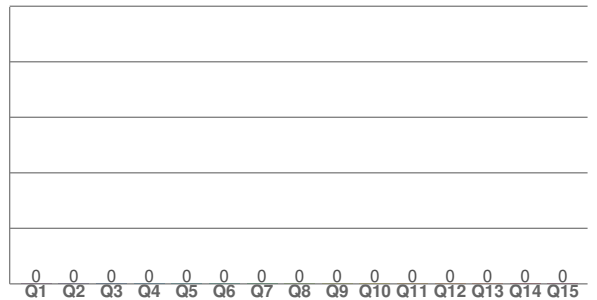
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS: 0.0



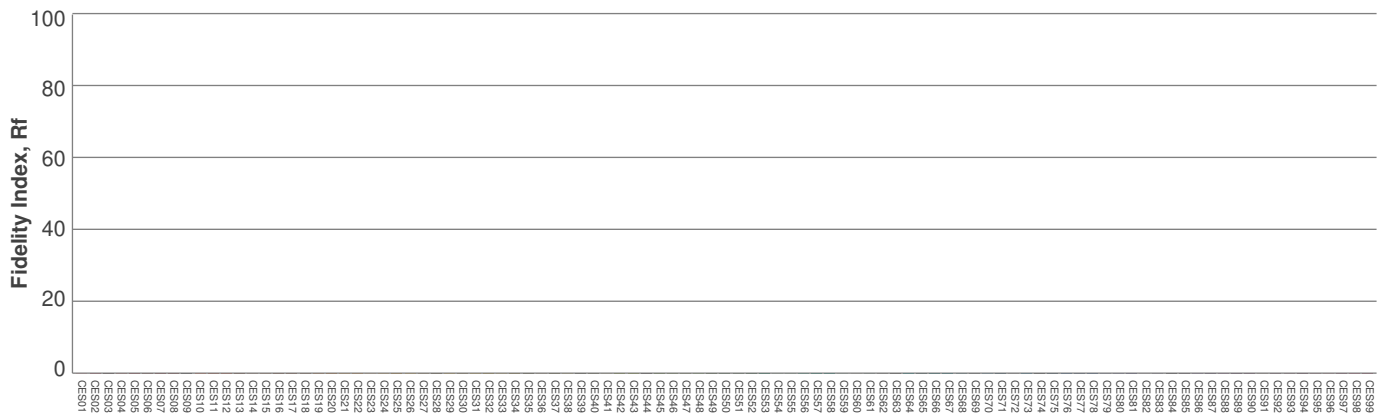
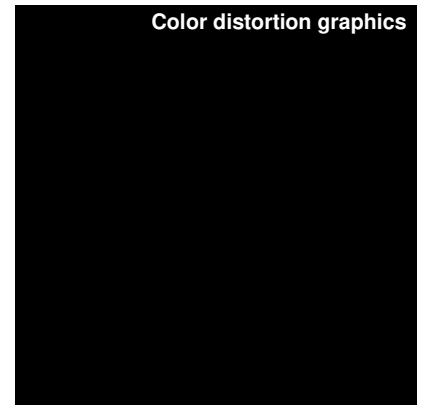
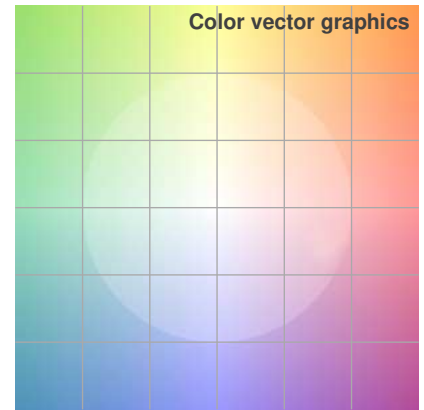
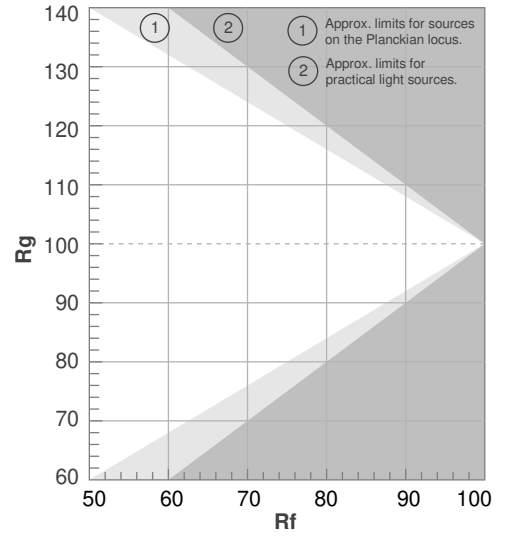
Color parameters

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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.643	0.295	0.489	0.337	n/a

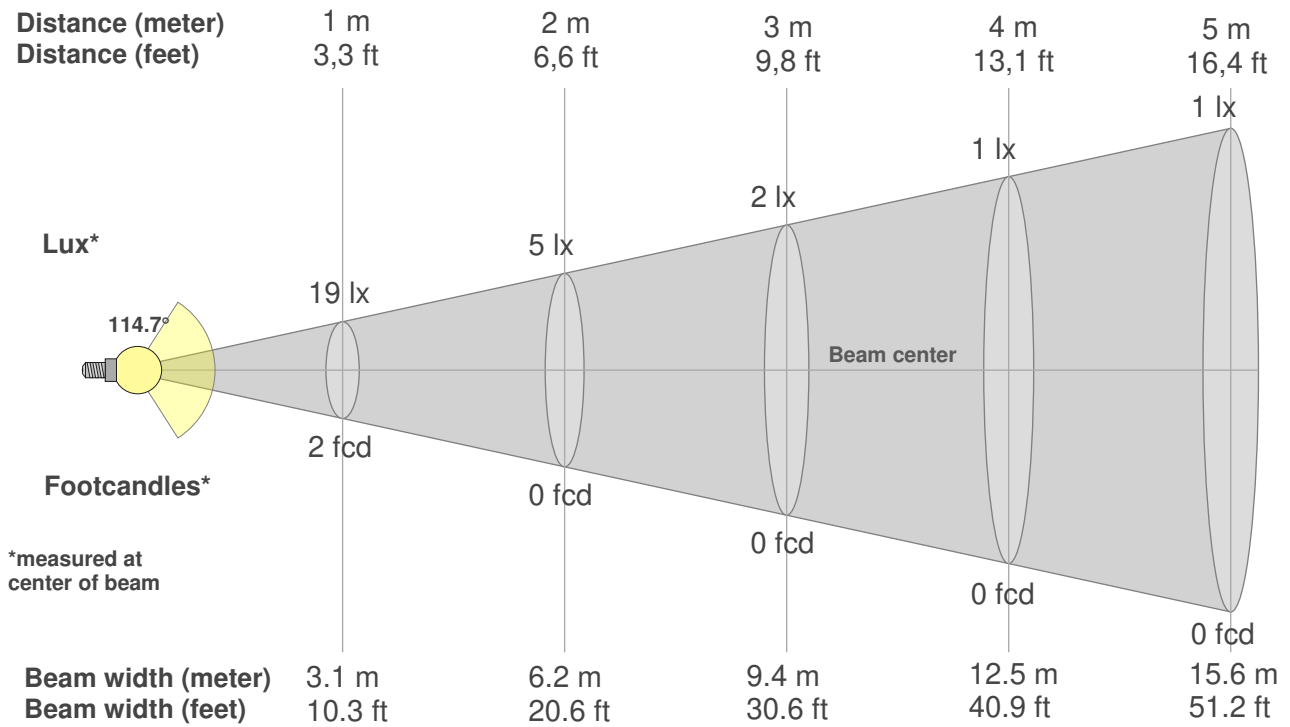
Rf 0.0
Fidelity index Rf

Rg 0.0
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Evaluation Sample



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
19lx	5lx	2lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
1.8fcd	0.4fcd	0.2fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

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°
19.3	19.6	19.7	19.6	19.2	18.7	18.2	17.4	16.6	15.5	14.1	12.6	11.0	9.2	7.4	5.7	4.0	2.4	1.2	0.7
100%	102%	102%	102%	100%	97%	95%	90%	86%	80%	73%	66%	57%	48%	38%	29%	21%	12%	6%	3%

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°
19.3	19.2	18.9	18.6	17.9	17.0	16.1	15.3	14.0	12.8	11.4	10.0	8.5	6.8	5.4	3.9	2.7	1.4	0.8	0.7
100%	100%	98%	96%	93%	88%	84%	79%	73%	66%	59%	52%	44%	35%	28%	20%	14%	7%	4%	4%

Intensities in 180° c-plane

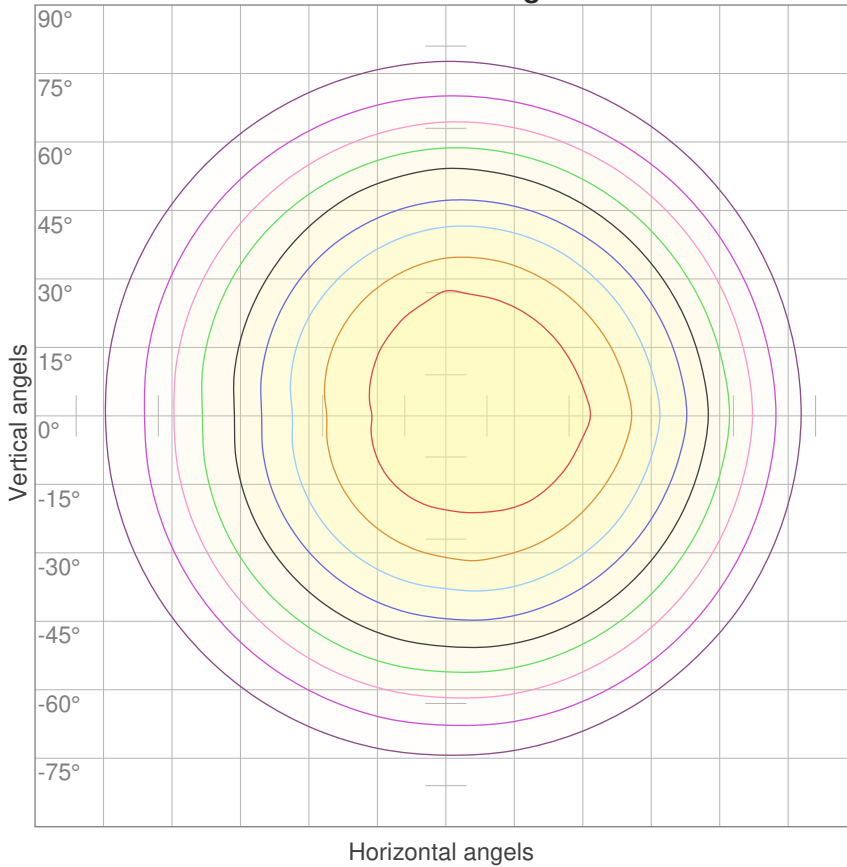
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
19.3	19.1	18.5	17.9	17.0	16.3	15.2	14.0	12.9	11.5	10.0	8.7	7.5	6.1	4.6	3.5	2.6	1.5	0.8	0.8
100%	99%	96%	93%	88%	84%	79%	73%	67%	60%	52%	45%	39%	32%	24%	18%	13%	8%	4%	4%

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°
19.3	19.4	19.2	19.0	18.5	17.9	17.3	16.2	15.0	13.7	12.4	10.9	9.6	7.8	6.2	4.8	3.4	2.2	1.2	0.7
100%	100%	100%	99%	96%	93%	90%	84%	78%	71%	64%	57%	50%	40%	32%	25%	17%	12%	6%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114.7°	168.9°	360°	71.0%	47.9%

ISO candela diagram



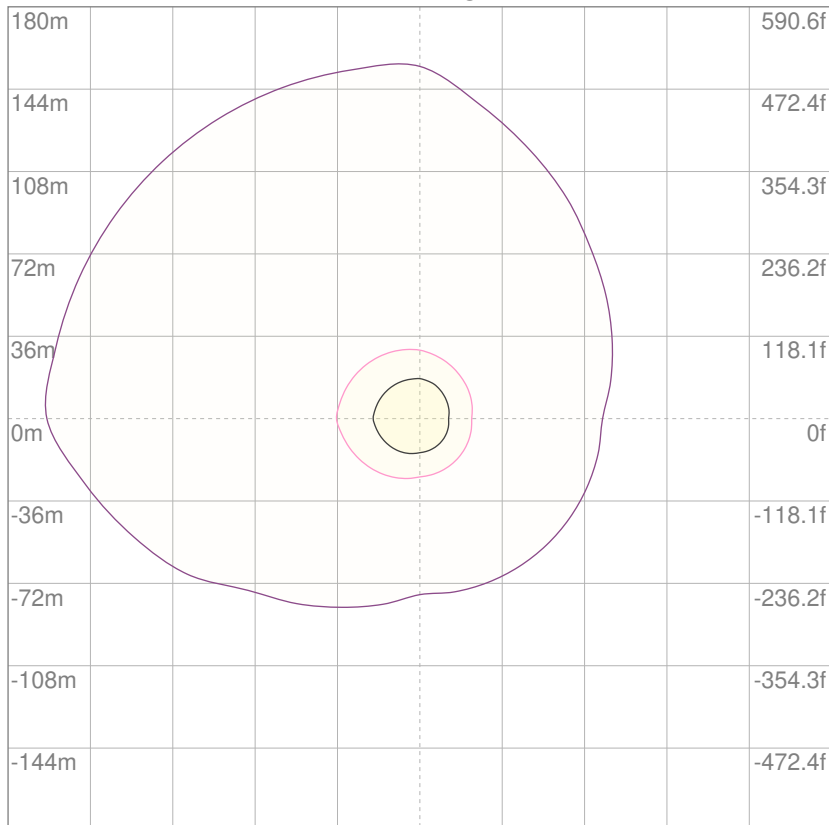
10%	2 cd
20%	4 cd
30%	6 cd
40%	8 cd
50%	10 cd
60%	12 cd
70%	13 cd
80%	15 cd
90%	17 cd

Conditions:

Number of c-planes: 4

Candela at center: 19 cd

ISO lux diagram



3%	5.78m lx
5%	9.63m lx
10%	19.3m lx
30%	57.8m lx
50%	96.3m lx

Conditions:

Number of c-planes: 4

Lux at center: 0.193 lx

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

Mounting height: 10 meters (33 feet)

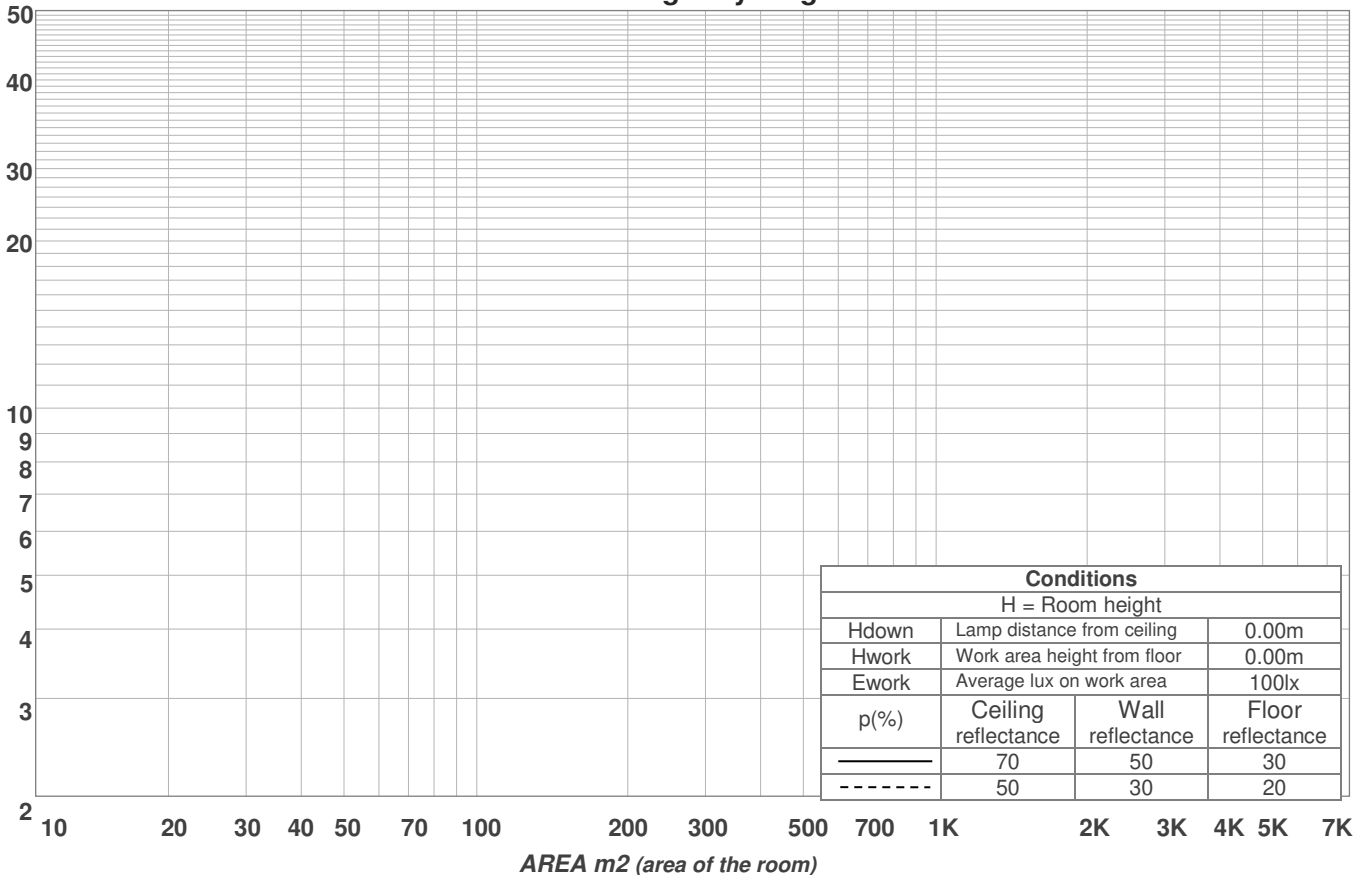


Coefficients of Utilization

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	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	97	93	103	98	94	91	93	90	87	88	85	83	83	81	79	77
2	96	88	81	75	93	85	79	73	81	75	71	77	72	68	73	69	66	63
3	88	77	68	62	85	75	67	61	71	64	59	67	62	57	64	59	55	53
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	57	52	47	45
5	74	61	51	45	71	59	50	44	56	49	43	54	47	42	51	45	41	39
6	68	54	45	39	66	53	45	38	51	43	38	48	42	37	46	40	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	37	32	42	36	32	30
8	59	45	36	30	57	44	36	30	42	35	30	40	34	29	39	33	28	26
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	24	36	29	24	34	28	24	33	27	23	21

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°
1.84 lm	5.28 lm	8.06 lm	9.83 lm	10.3 lm	9.47 lm	7.42 lm	4.73 lm	2.08 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.790 lm	0.684 lm	0.571 lm	0.565 lm	0.484 lm	0.418 lm	0.285 lm	0.172 lm	0.067 lm



Product name:
DC24-5.3_DRY_RGB_G

Date:
6/26/2017

Powering product:
IQ-PH-80-120/24

Output: **156 lm/ft**

Peak: **51.4 cd**

Power: **2.4 W/ft**

PF: **1.0**



Light efficiency:



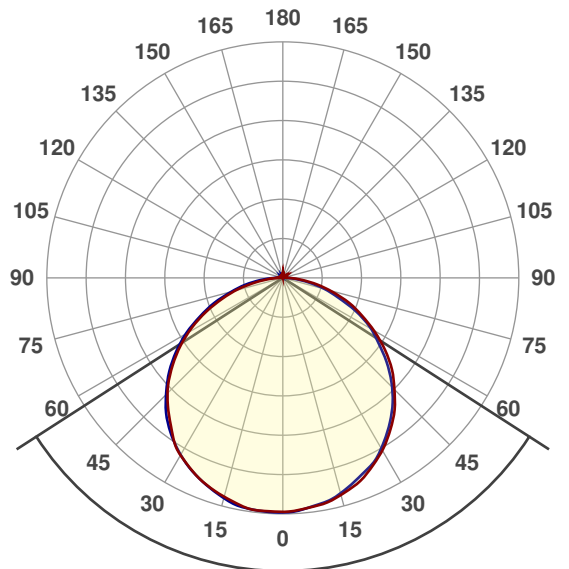
Light quality:



Color temperature:



Beam Angle

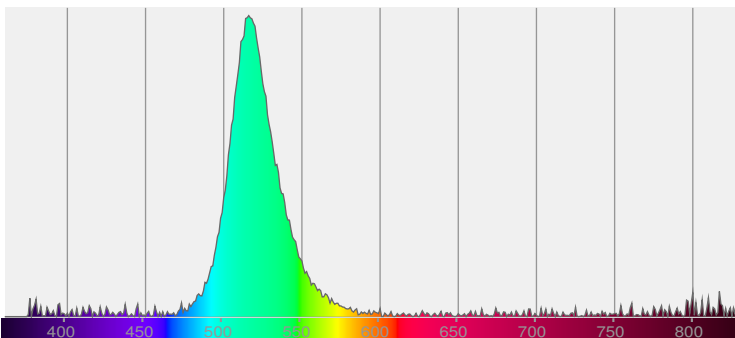


114.4°

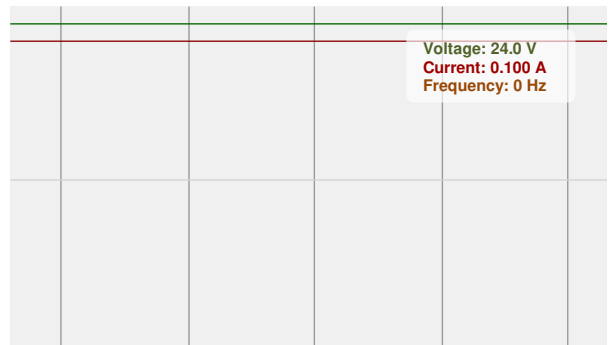


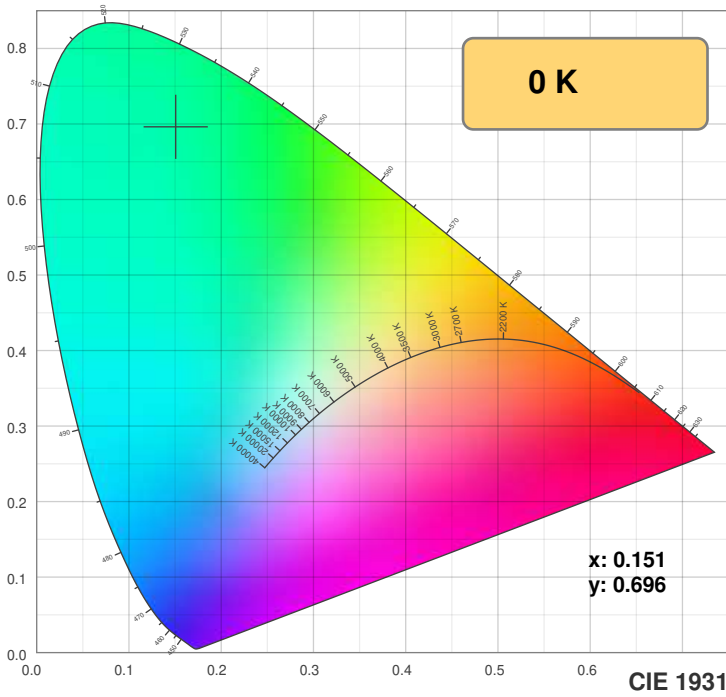
CIE 1931
 x: 0.151
 y: 0.696

Spectra

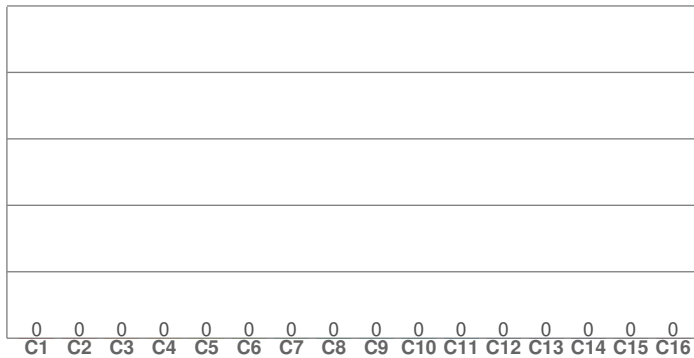


Power





TM30: 0.0



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
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

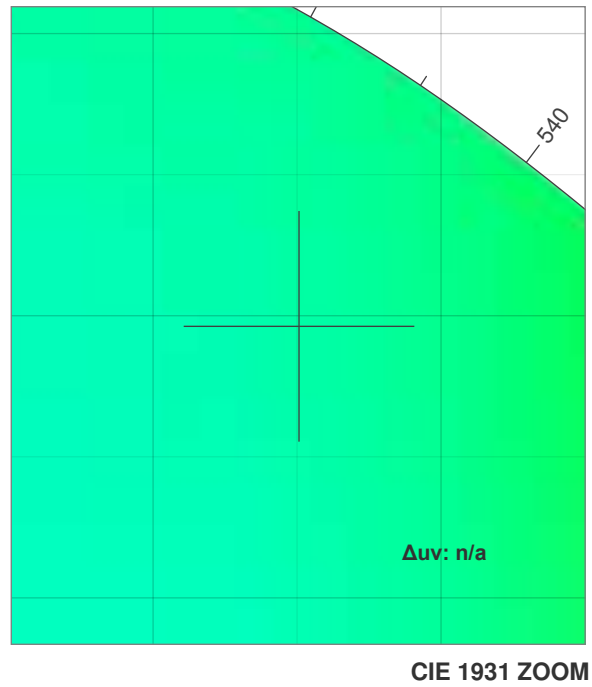
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS Q values

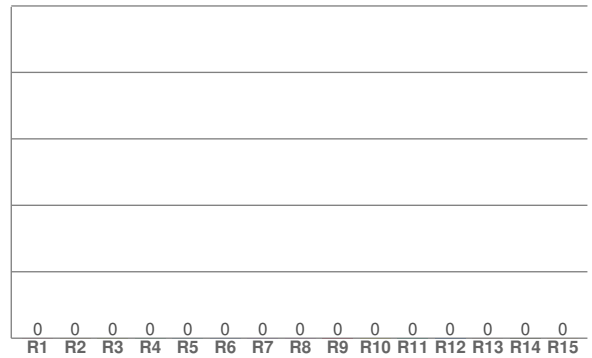
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Color parameters

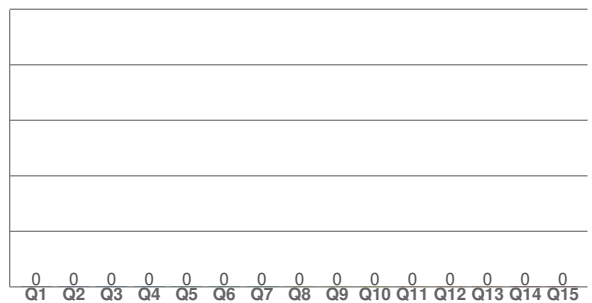
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.151	0.696	0.055	0.378	n/a



CRI: 0.0 (R1-R8)



CQS: 0.0





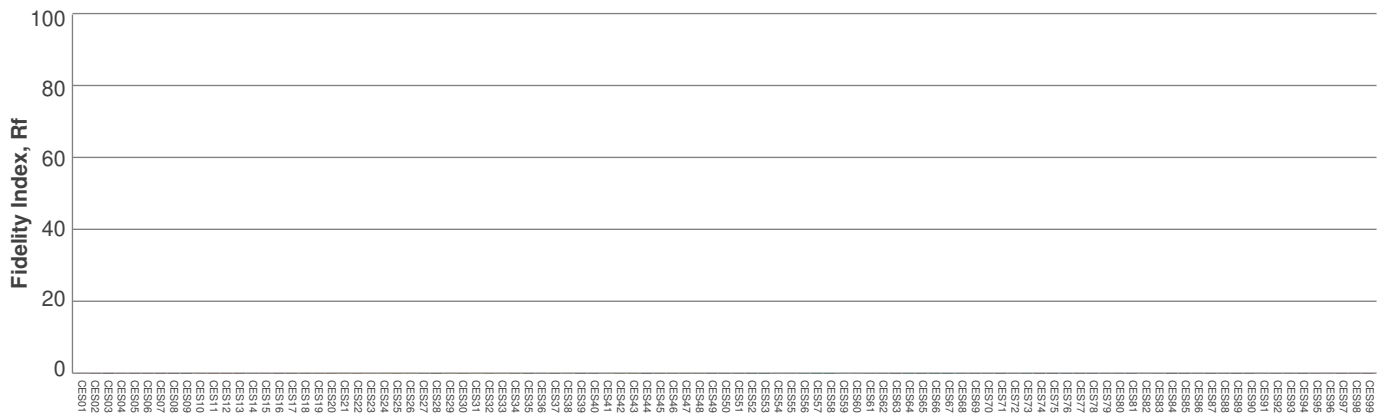
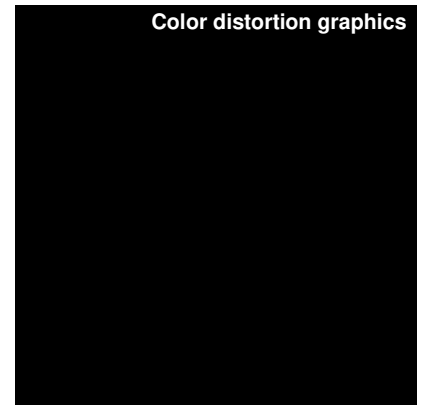
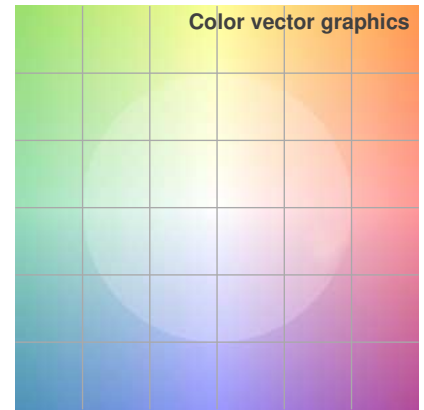
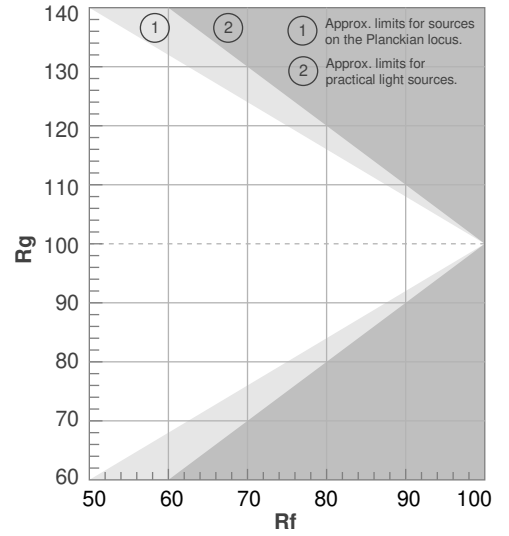
TM30 Details

DC24-5.3_DRY_RGB_G

Rf 0.0
Fidelity index Rf

Rg 0.0
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%

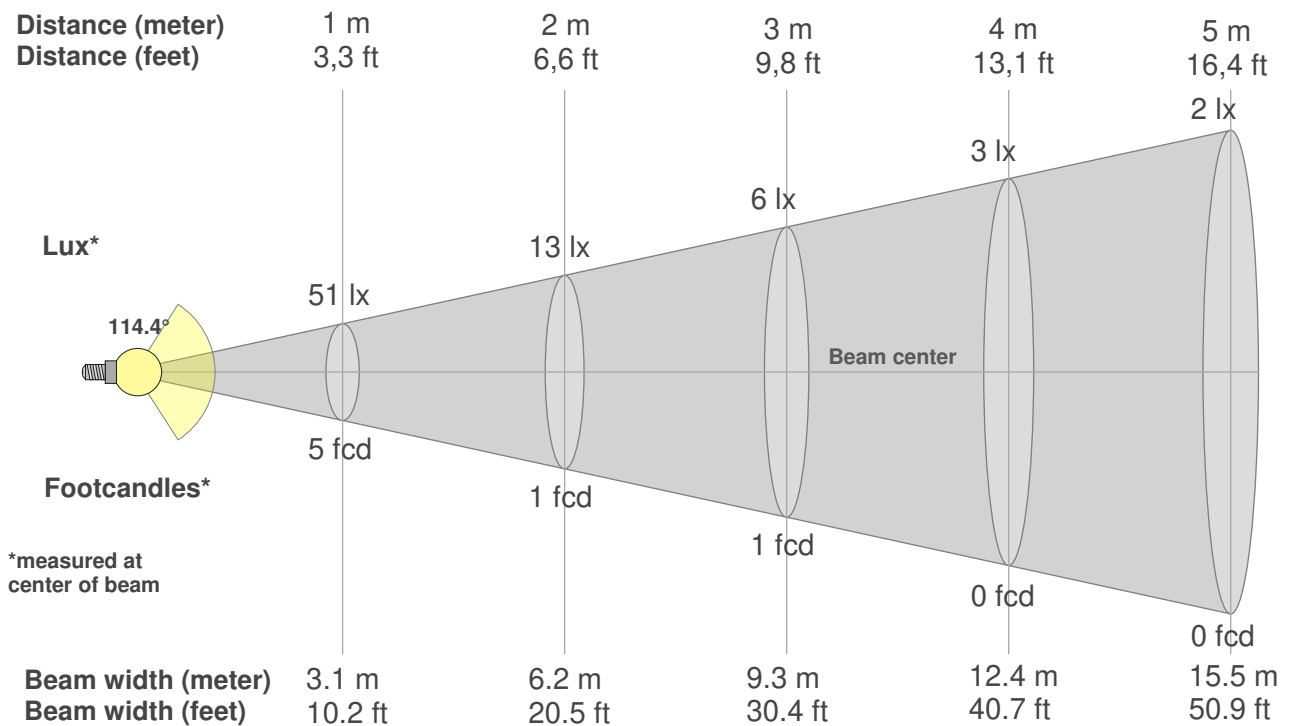


Color Evaluation Sample



Beam Details

DC24-5.3_DRY_RGB_G



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
51lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
4.8fcd	1.2fcd	0.5fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

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°
51.3	50.8	50.3	49.2	47.9	45.9	43.6	40.9	38.1	34.6	31.2	27.3	23.0	18.8	15.0	10.8	7.0	3.7	1.5	0.5
100%	99%	98%	96%	93%	89%	85%	80%	74%	67%	61%	53%	45%	37%	29%	21%	14%	7%	3%	1%

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°
51.3	50.9	50.1	48.8	47.1	45.4	43.1	40.3	37.3	33.8	30.0	26.0	22.3	18.0	13.3	9.6	5.8	2.7	0.9	0.7
100%	99%	98%	95%	92%	89%	84%	79%	73%	66%	59%	51%	43%	35%	26%	19%	11%	5%	2%	1%

Intensities in 180° c-plane

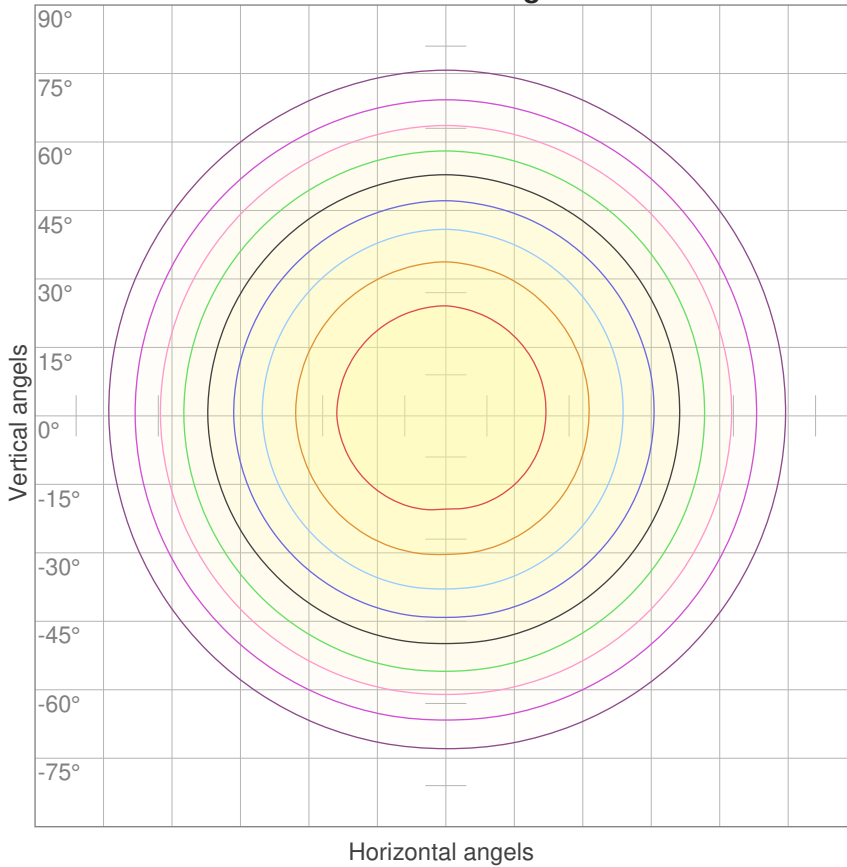
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
51.3	51.2	50.7	49.6	48.4	46.7	44.8	42.0	38.9	35.7	32.0	28.1	23.9	19.4	14.9	10.8	6.6	3.2	1.0	0.7
100%	100%	99%	97%	94%	91%	87%	82%	76%	70%	62%	55%	47%	38%	29%	21%	13%	6%	2%	1%

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°
51.3	51.3	50.9	49.9	48.4	46.8	44.7	42.4	39.6	36.2	32.6	28.7	24.6	20.0	15.9	11.6	8.1	4.6	1.9	0.8
100%	100%	99%	97%	94%	91%	87%	83%	77%	71%	64%	56%	48%	39%	31%	23%	16%	9%	4%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114.4°	164.9°	180.6°	75.6%	51.2%

ISO candela diagram



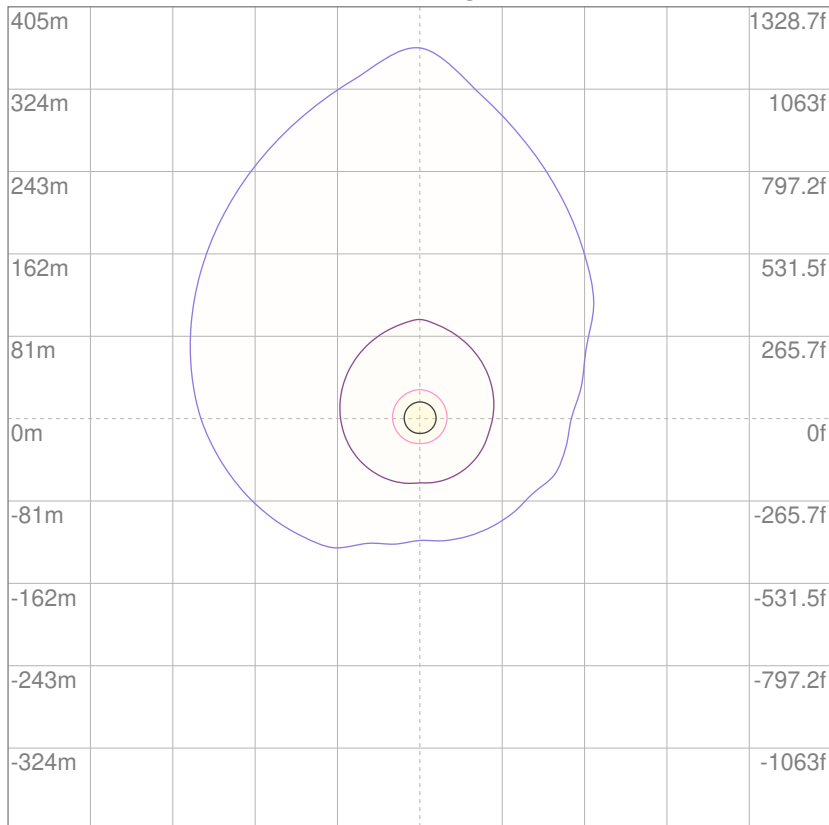
10%	5 cd
20%	10 cd
30%	15 cd
40%	21 cd
50%	26 cd
60%	31 cd
70%	36 cd
80%	41 cd
90%	46 cd

Conditions:

Number of c-planes: 4

Candela at center: 51 cd

ISO lux diagram



3%	15.4m lx
5%	25.6m lx
10%	51.3m lx
30%	0.154 lx
50%	0.256 lx

Conditions:

Number of c-planes: 4

Lux at center: 0.513 lx

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

Mounting height: 10 meters (33 feet)

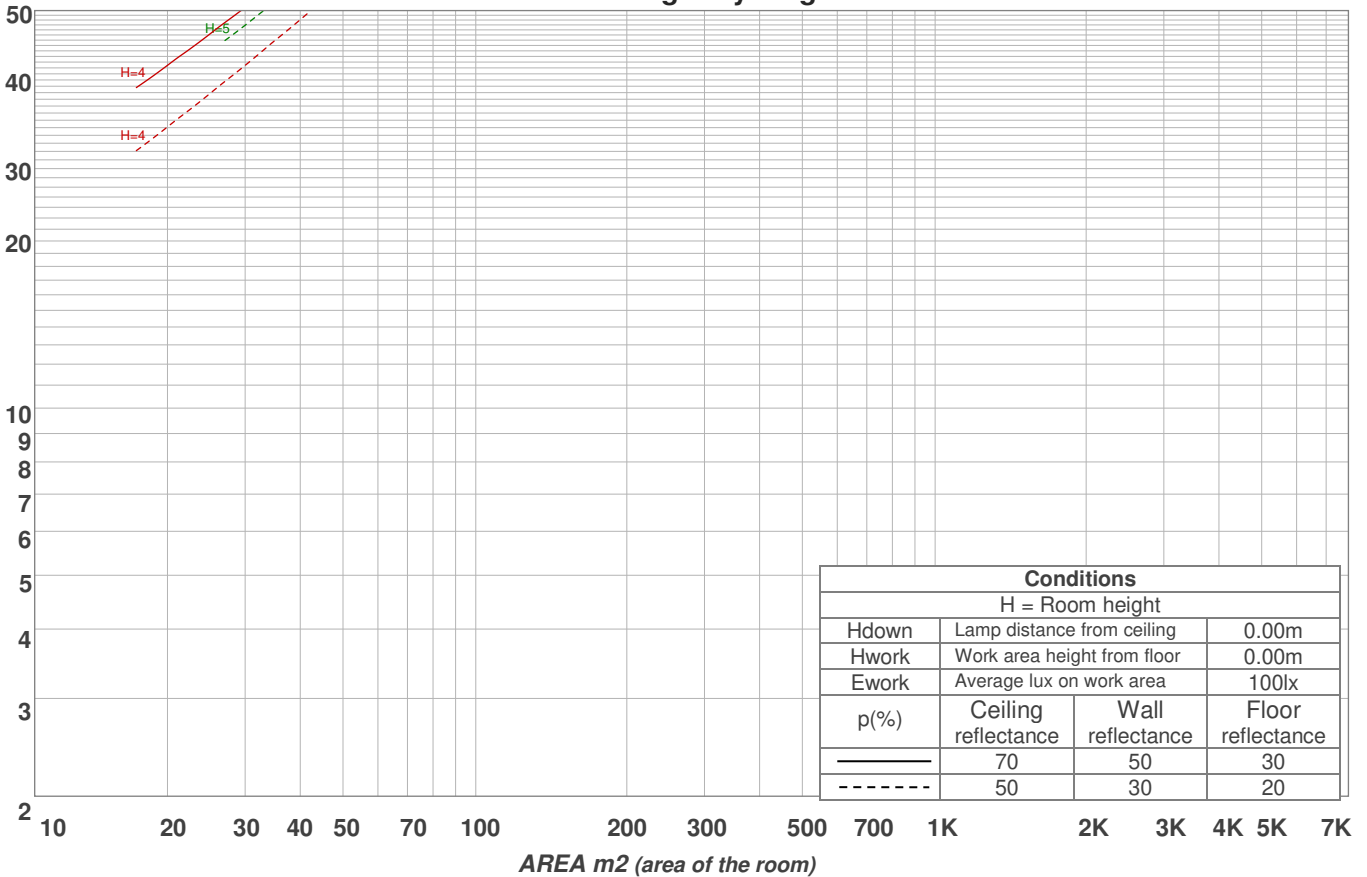


Coefficients of Utilization

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	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	93	96	92	89	91	89	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	54	50	48
5	75	62	53	46	72	60	52	46	58	51	45	56	49	44	54	48	43	41
6	69	55	46	40	67	54	46	40	52	45	39	50	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	44	38	34	32
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	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°
4.86 lm	14.0 lm	21.3 lm	25.9 lm	27.0 lm	24.6 lm	18.9 lm	11.3 lm	4.09 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.831 lm	0.578 lm	0.605 lm	0.476 lm	0.412 lm	0.357 lm	0.272 lm	0.157 lm	0.054 lm



Product name:
DC24-5.3_DRY_RGB_B

Date:
6/26/2017

Powering product:
IQ-PH-80-120/24

Output: 26.2 lm/ft

Peak: 7.63 cd

Power: 1.2 W/ft

PF: 1.0



Light efficiency:



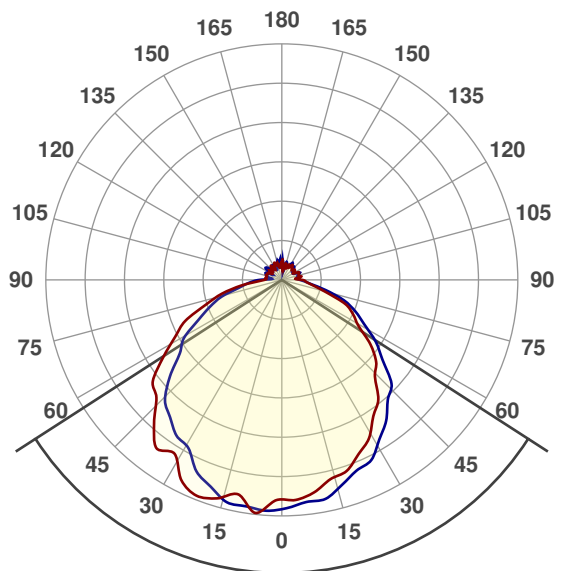
Light quality:



Color temperature:



Beam Angle

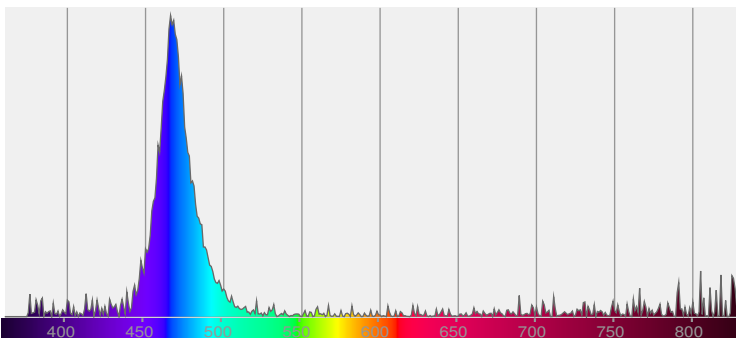


114.3°

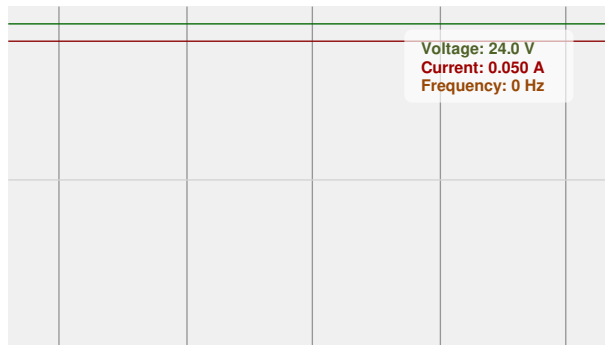


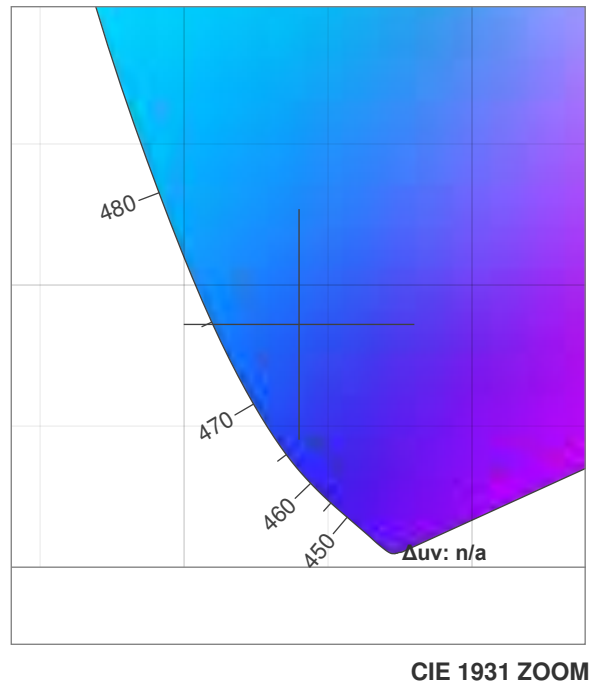
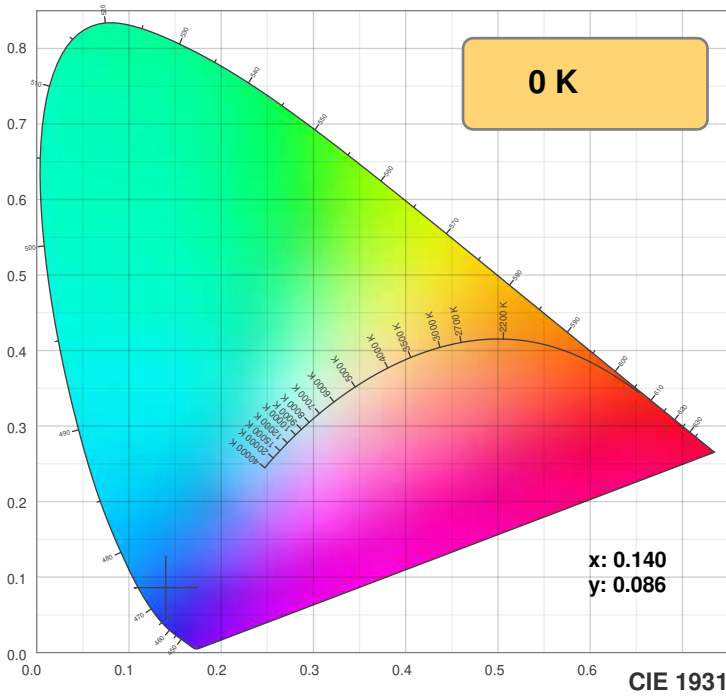
CIE 1931
x: 0.140
y: 0.086

Spectra



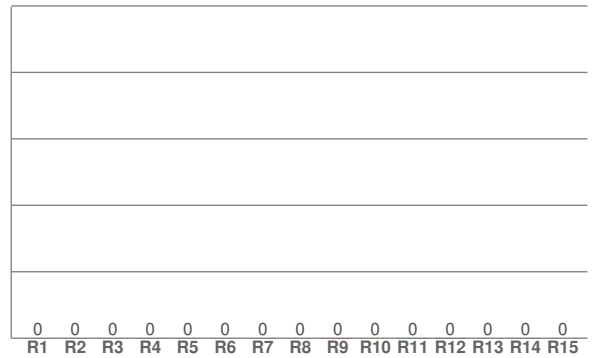
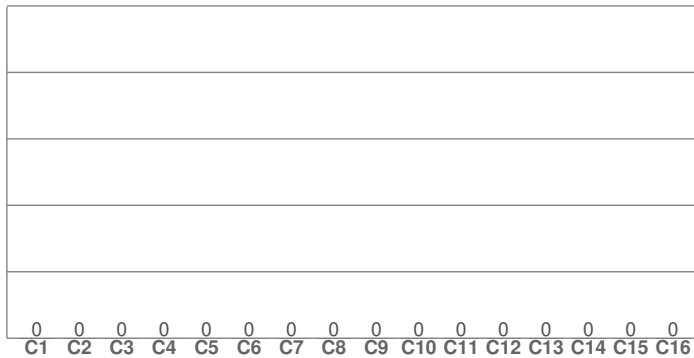
Power





TM30: 0.0

CRI: 0.0 (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
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

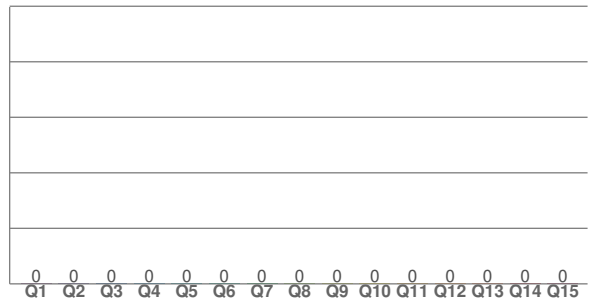
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS: 0.0



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 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.140	0.086	0.149	0.138	n/a



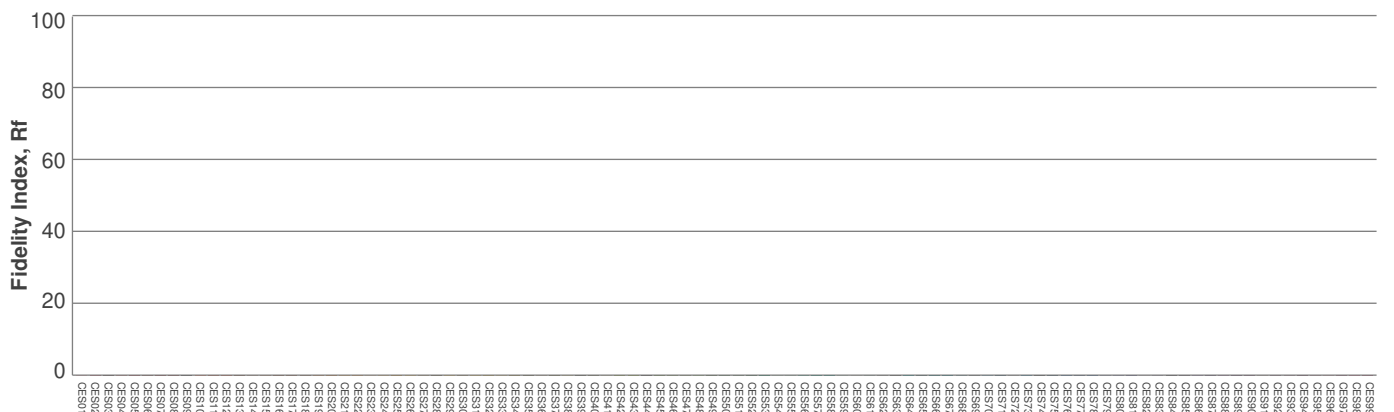
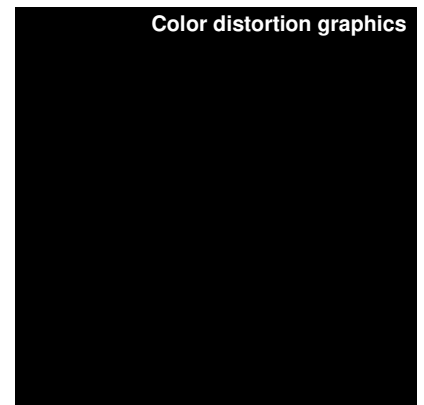
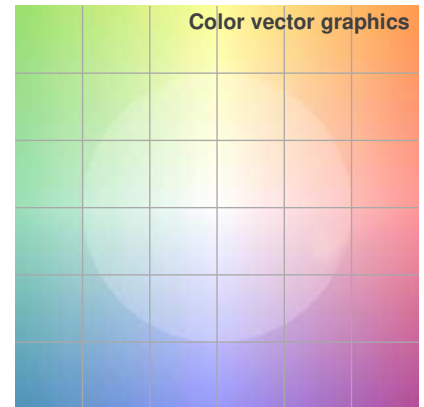
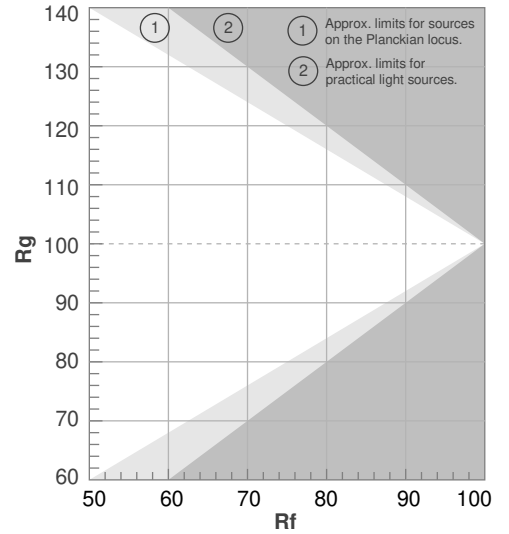
TM30 Details

DC24-5.3_DRY_RGB_B

Rf 0.0
Fidelity index Rf

Rg 0.0
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%

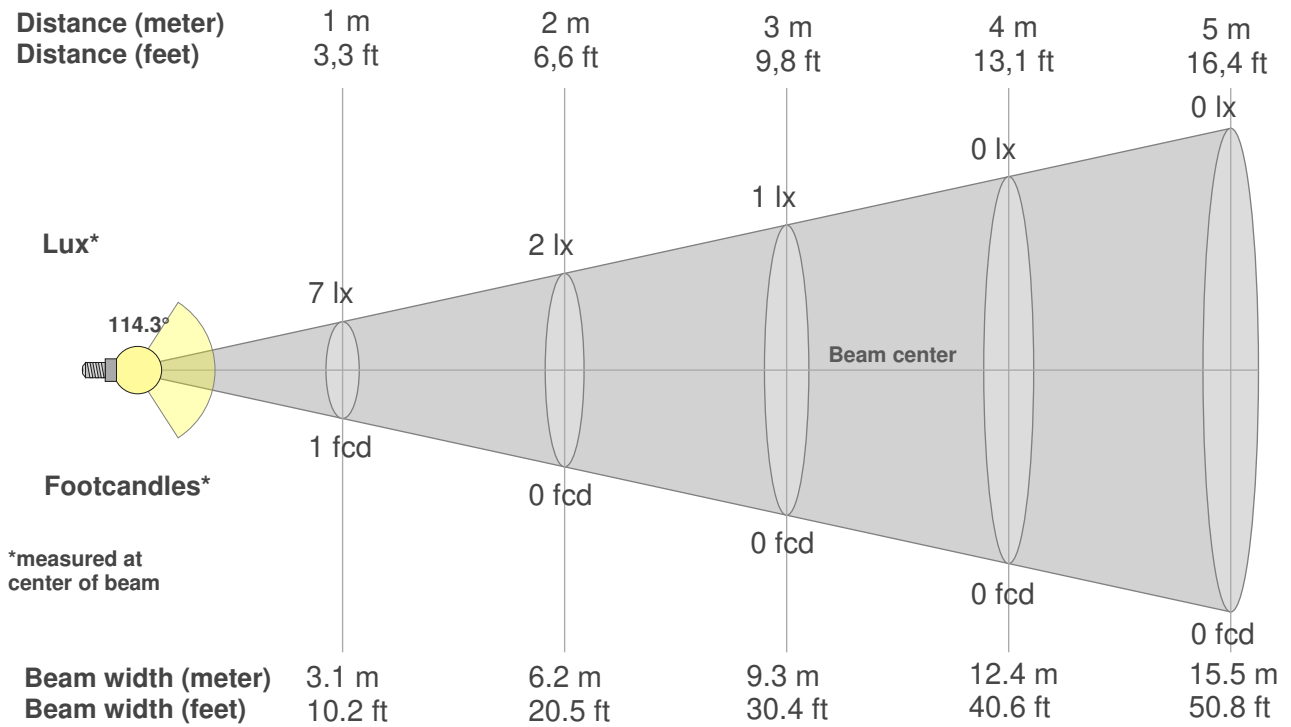


Color Evaluation Sample



Beam Details

DC24-5.3_DRY_RGB_B



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
7lx	2lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
0.7fcd	0.2fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

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°
7.31	7.13	6.91	6.65	6.48	6.12	5.76	5.27	4.86	4.31	3.97	3.43	2.85	2.52	2.10	1.45	1.04	0.81	0.67	0.47
100%	97%	94%	91%	89%	84%	79%	72%	66%	59%	54%	47%	39%	34%	29%	20%	14%	11%	9%	6%

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°
7.31	7.31	7.27	7.04	6.75	6.58	6.22	5.82	5.36	5.01	4.42	3.83	3.25	2.76	2.30	1.71	1.15	0.80	0.60	0.51
100%	100%	99%	96%	92%	90%	85%	80%	73%	68%	60%	52%	44%	38%	31%	23%	16%	11%	8%	7%

Intensities in 180° c-plane

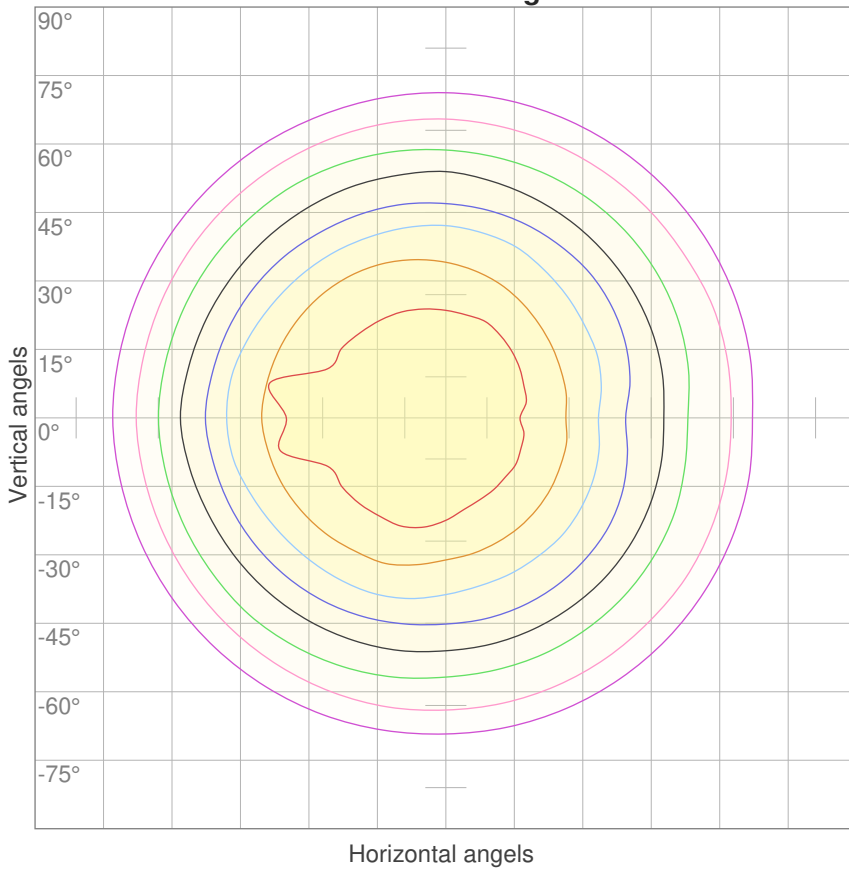
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
7.31	7.50	7.28	7.33	7.51	7.38	6.86	6.77	6.45	5.83	5.44	4.88	4.19	3.62	2.92	2.24	1.61	0.98	0.60	0.52
100%	103%	99%	100%	103%	101%	94%	93%	88%	80%	74%	67%	57%	49%	40%	31%	22%	13%	8%	7%

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°
7.31	7.51	7.46	7.38	7.06	6.71	6.24	6.05	5.71	5.35	4.70	4.03	3.61	2.95	2.45	1.97	1.39	1.06	0.73	0.34
100%	103%	102%	101%	97%	92%	85%	83%	78%	73%	64%	55%	49%	40%	33%	27%	19%	15%	10%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114.3°	174.8°	360°	65.2%	43.9%

ISO candela diagram



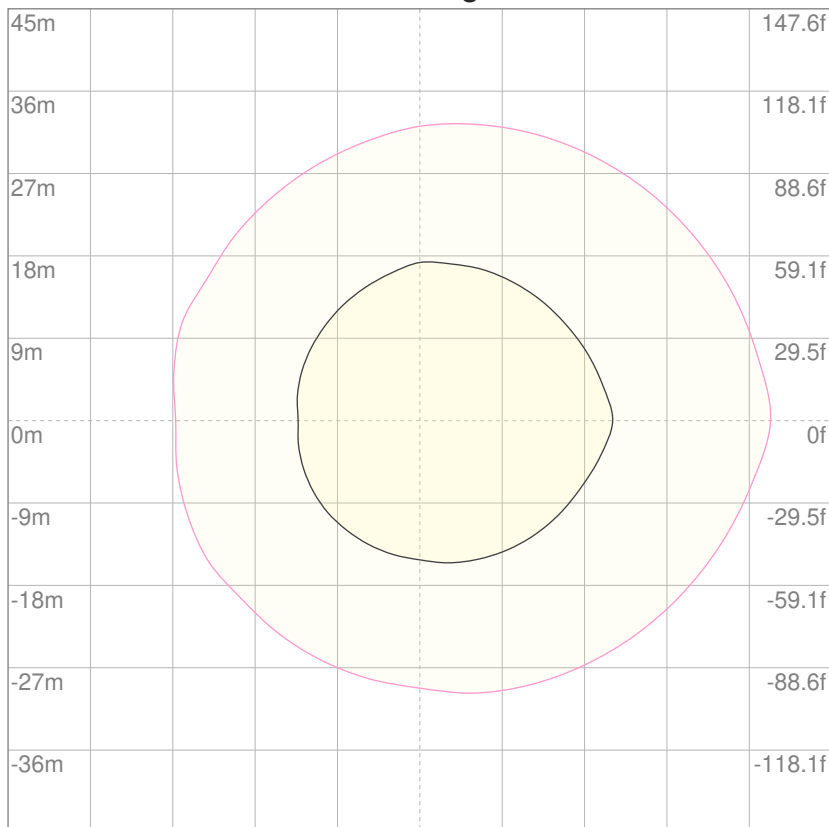
10%	1 cd
20%	1 cd
30%	2 cd
40%	3 cd
50%	4 cd
60%	4 cd
70%	5 cd
80%	6 cd
90%	7 cd

Conditions:

Number of c-planes: 4

Candela at center: 7 cd

ISO lux diagram



3%	2.19m lx
5%	3.66m lx
10%	7.31m lx
30%	21.9m lx
50%	36.6m lx

Conditions:

Number of c-planes: 4

Lux at center: 73.1m lx

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

Mounting height: 10 meters (33 feet)

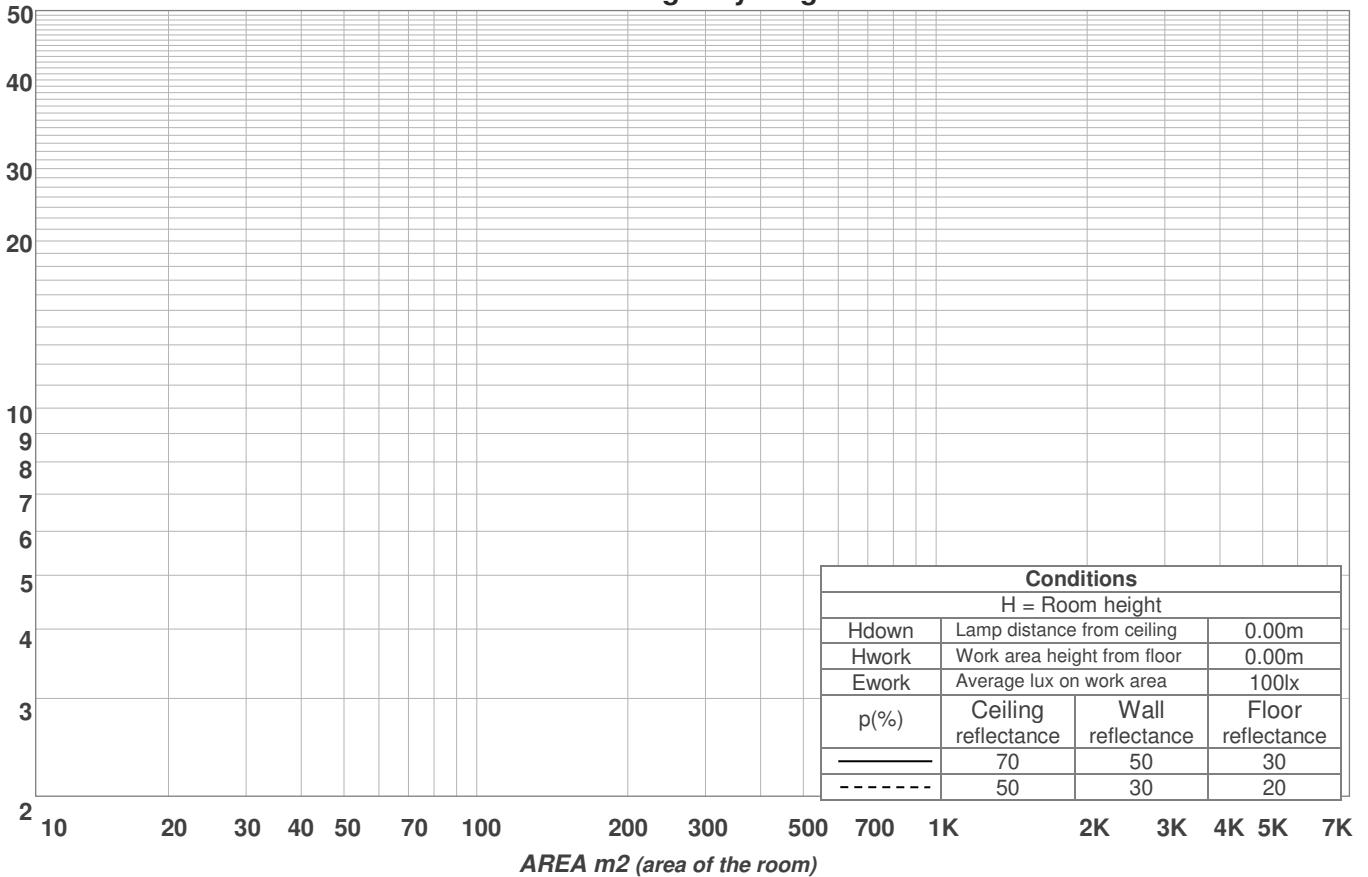


Coefficients of Utilization

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	20
RCR	(RCR: Room Cavity Ratio)																	
	Room Values are expressed as percentage of Lumens delivered to the task surface																	
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	105	100	95	91	101	96	92	88	90	86	83	84	81	78	78	76	74	71
2	95	86	79	73	91	83	77	71	78	72	68	73	68	64	68	64	61	58
3	86	75	67	60	83	73	65	59	68	62	56	64	58	54	60	55	51	49
4	79	67	58	51	76	64	56	50	60	53	48	57	51	46	53	48	44	41
5	72	59	50	43	69	57	49	43	54	47	41	51	44	39	48	42	38	35
6	67	53	44	38	64	52	43	37	49	41	36	46	39	34	43	38	33	31
7	62	48	39	33	59	47	38	33	44	37	32	42	35	30	39	34	29	27
8	57	44	35	29	55	43	35	29	40	33	28	38	32	27	36	30	26	24
9	54	40	32	26	52	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	24	48	36	29	23	34	27	23	32	26	22	31	25	21	20

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°
0.700 lm	2.01 lm	3.08 lm	3.74 lm	3.95 lm	3.63 lm	2.93 lm	1.95 lm	1.01 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.556 lm	0.564 lm	0.511 lm	0.435 lm	0.386 lm	0.338 lm	0.230 lm	0.148 lm	0.045 lm