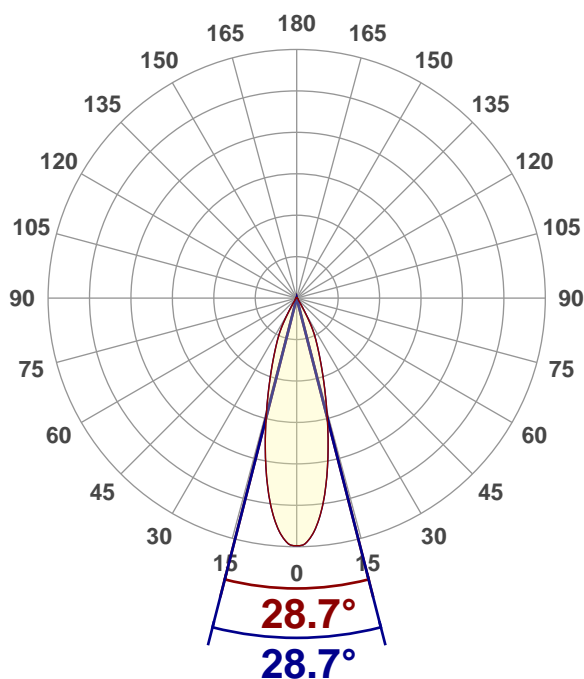


**Light efficiency:****68 Lumen/Watt****Light quality:****CRI: 93.6****Color temperature:****3074 K****Output: 949 lm****Peak: 2789 cd****Power: 14.0 W****Voltage: 120 V****Current: 0.117 A****PF: 0.9****THD: n/a %****Product name:****H2x-1030N00xxN-xxx - 4****Driver Used:****Test Date:****2019-08-16****Beam Angle:****28.7°****Field Angle:****57.5°****Cut Off Angle:****69.2°****Beam details**

\*measured at center of beam

Mounting Height (feet)\(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	1877 lx	174 fcd	2 ft / 0.6 m
8 ft / 2.4 m	469 lx	44 fcd	4.1 ft / 1.2 m
12 ft / 3.7 m	209 lx	19 fcd	6.1 ft / 1.9 m
16 ft / 4.9m	117 lx	11 fcd	8.2 ft / 2.5 m
20 ft / 6.1m	75 lx	7 fcd	10.2 ft / 3.1 m

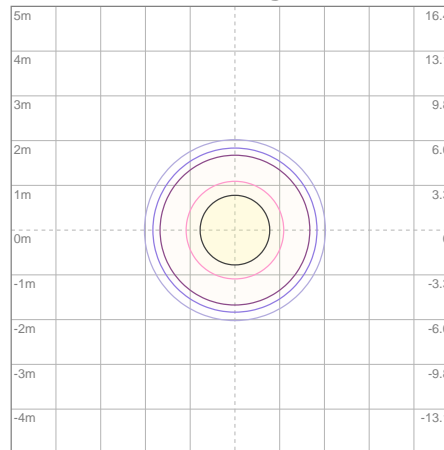
Beam center

# Light planning Photometric Testing Report

## Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	811	85.46%
0-40	860	90.62%
0-60	896	94.42%
60-90	26.7	2.81%
70-100	18.5	1.95%
90-120	12.3	1.30%
0-90	923	97.26%
90-180	26.8	2.82%
0-180	949	100.00%

## ISO lux diagram



Mounting height: 3.05 meters (10 feet)

Lux at center:	300 lx
3%	9.00 lx
5%	15.00 lx
10%	30.00 lx
30%	90.00 lx
50%	150.00 lx

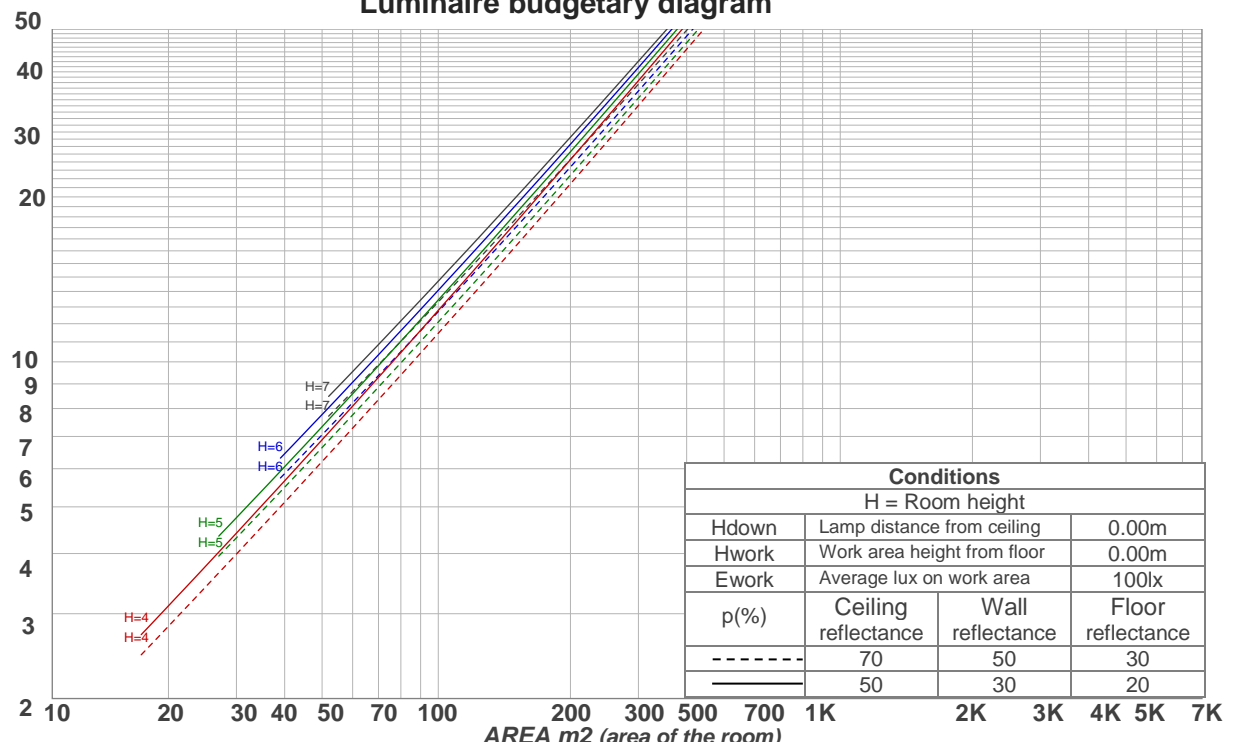
Conditions:  
Number of planes: 8  
Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

## 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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	97
1	113	111	108	106	110	108	106	104	104	102	100	99	98	97	96	95	94	92
2	108	104	100	97	106	102	99	96	98	96	93	95	93	91	92	90	89	87
3	104	98	94	90	102	97	93	89	94	90	88	91	88	86	88	86	84	83
4	100	93	88	85	98	92	87	84	89	86	83	87	84	81	85	82	80	79
5	96	89	84	80	94	88	83	79	86	82	79	84	80	78	82	79	77	75
6	92	85	80	76	91	84	79	76	82	78	75	81	77	74	79	76	74	72
7	89	81	76	73	88	80	76	72	79	75	72	78	74	71	76	73	71	69
8	86	78	73	69	85	77	73	69	76	72	69	75	71	68	74	70	68	67
9	83	75	70	67	82	74	70	66	73	69	66	72	68	66	71	68	65	64
10	80	72	67	64	79	72	67	64	71	67	64	70	66	63	69	66	63	62

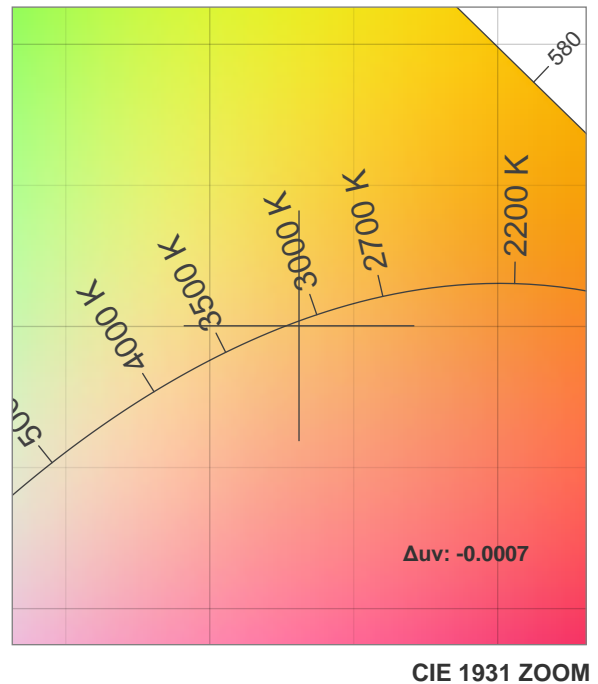
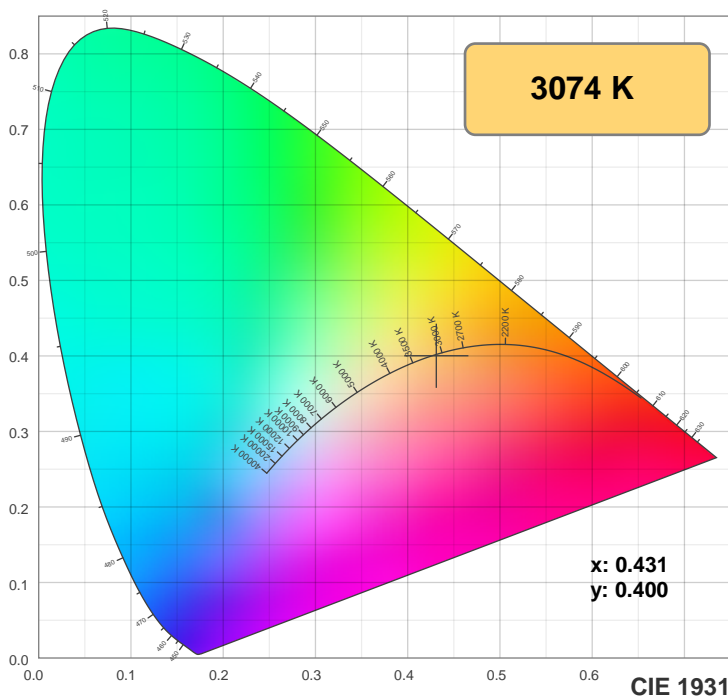
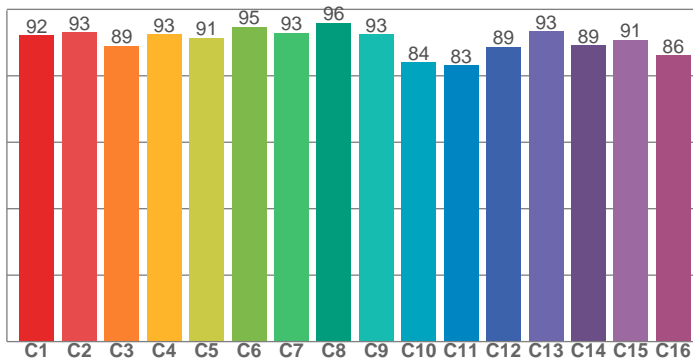
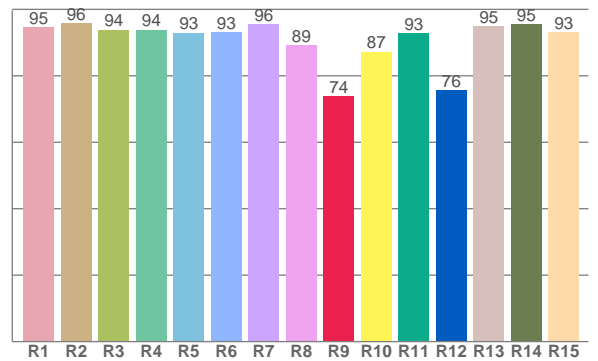
LAMPS (number of lamps)

## Luminaire budgetary diagram



## Color details

## Photometric Testing Report

**TM30: 90.5****CRI: 93.6 (R1-R8)**

CRI R values, only R1-R8 are used to calculate final CRI value

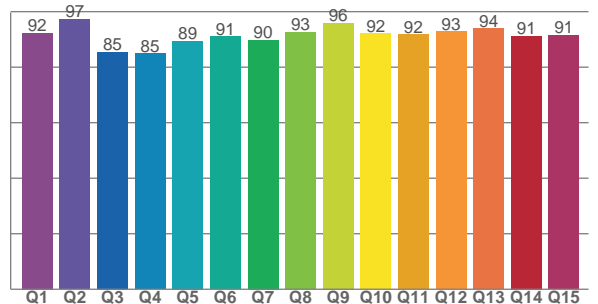
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.6	95.7	93.8	93.9	93.0	93.1	95.6	89.3	73.9	87.2	92.8	75.7	94.9	95.5	93.1

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
92.1	93.1	88.9	92.5	91.4	94.8	92.9	96.0	92.5	84.0	83.2	88.8	93.4	89.1	90.8	86.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92.4	97.3	85.4	84.9	89.5	91.0	89.7	92.5	95.9	92.1	91.8	92.9	94.0	91.2	91.5

**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	Δuv
3074 K	93.6	73.9	90.5	100.4	90.8	0.431	0.400	0.248	0.346	-0.0007

## UGR Photometric Testing Report

## 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	12.4	12.0	12.7	12.9	11.7	12.4	12.0	12.7	12.9
	3H	13.0	13.6	13.3	13.9	14.2	13.0	13.6	13.3	13.9	14.2
	4H	13.7	14.3	14.0	14.6	14.9	13.7	14.3	14.0	14.6	14.9
	6H	14.4	15.0	14.8	15.3	15.6	14.4	15.0	14.8	15.3	15.6
	8H	14.8	15.3	15.2	15.7	16.0	14.8	15.3	15.2	15.7	16.0
	12H	15.2	15.7	15.6	16.1	16.5	15.2	15.7	15.6	16.1	16.5
4H	2H	12.2	12.8	12.6	13.1	13.4	12.2	12.8	12.6	13.1	13.4
	3H	13.7	14.2	14.1	14.6	14.9	13.7	14.2	14.1	14.6	14.9
	4H	14.6	15.0	15.0	15.4	15.8	14.6	15.0	15.0	15.4	15.8
	6H	15.5	15.9	16.0	16.3	16.8	15.5	15.9	16.0	16.3	16.8
	8H	16.0	16.4	16.5	16.8	17.2	16.0	16.4	16.5	16.8	17.2
	12H	16.6	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8
8H	4H	15.0	15.3	15.4	15.7	16.2	15.0	15.3	15.4	15.7	16.2
	6H	16.1	16.4	16.6	16.8	17.3	16.1	16.4	16.6	16.8	17.3
	8H	16.8	17.0	17.3	17.5	18.0	16.8	17.0	17.3	17.5	18.0
	12H	17.5	17.7	18.1	18.2	18.8	17.5	17.7	18.1	18.2	18.8
12H	4H	15.0	15.3	15.5	15.8	16.3	15.0	15.3	15.5	15.8	16.3
	6H	16.3	16.5	16.8	17.0	17.5	16.3	16.5	16.8	17.0	17.5
	8H	17.0	17.2	17.5	17.7	18.2	17.0	17.2	17.5	17.7	18.2
Variation of the observer position for the luminaire distance S											
S = 1.0H		+0.6 / -0.2					+0.6 / -0.2				
S = 1.5H		+1.2 / -0.4					+1.2 / -0.4				
S = 2.0H		+2.1 / -0.8					+2.1 / -0.8				
Standard table		BK07					BK07				
Correction summand		-0.4					-0.4				
Corrected glare indices referring to 949 lm total luminous flux											

Due to our continued efforts to improve our products, product specifications are subject to change without notice. Please refer to our website for the latest test results.