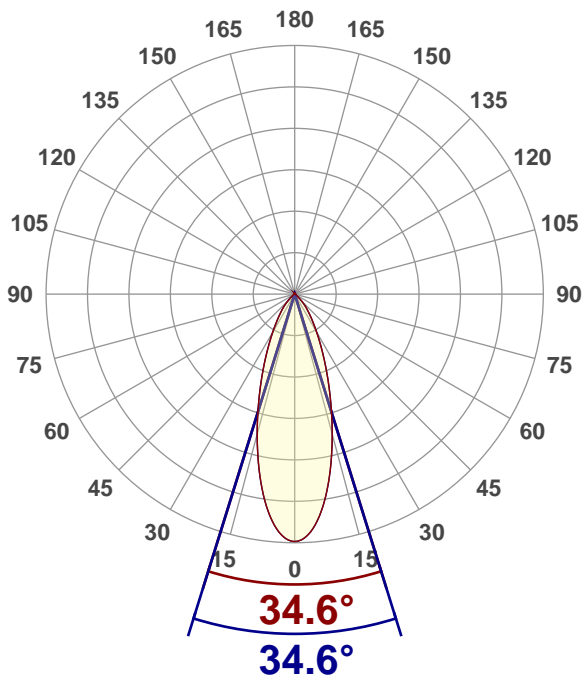


Light efficiency:**62 Lumen/Watt****Light quality:****CRI: 94.1****Color temperature:****3059 K****Output: 859 lm****Peak: 1674 cd****Power: 13.9 W****Voltage: 120 V****Current: 0.116 A****PF: 0.9****THD: n/a %****Product name:****H2x-1030D00xxN-xxx - 1****Driver Used:****Test Date:****2019-08-16****Beam Angle:****34.6°****Field Angle:****73°****Cut Off Angle:****95.7°****Beam details**

*measured at center of beam

Mounting Height (feet)\(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	1126 lx	105 fcd	2.5 ft / 0.8 m
8 ft / 2.4 m	282 lx	26 fcd	5 ft / 1.5 m
12 ft / 3.7 m	125 lx	12 fcd	7.5 ft / 2.3 m
16 ft / 4.9 m	70 lx	7 fcd	10 ft / 3 m
20 ft / 6.1 m	45 lx	4 fcd	12.5 ft / 3.8 m

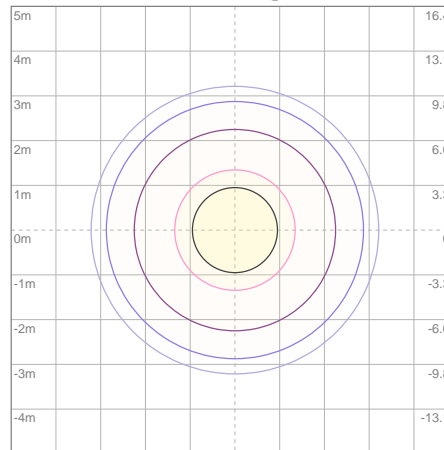
Beam center

Light planning Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	623	72.53%
0-40	744	86.61%
0-60	810	94.30%
60-90	20.4	2.37%
70-100	16.9	1.97%
90-120	12.9	1.50%
0-90	831	96.74%
90-180	27.8	3.24%
0-180	859	100.00%

ISO lux diagram



Mounting height: 3.05 meters (10 feet)

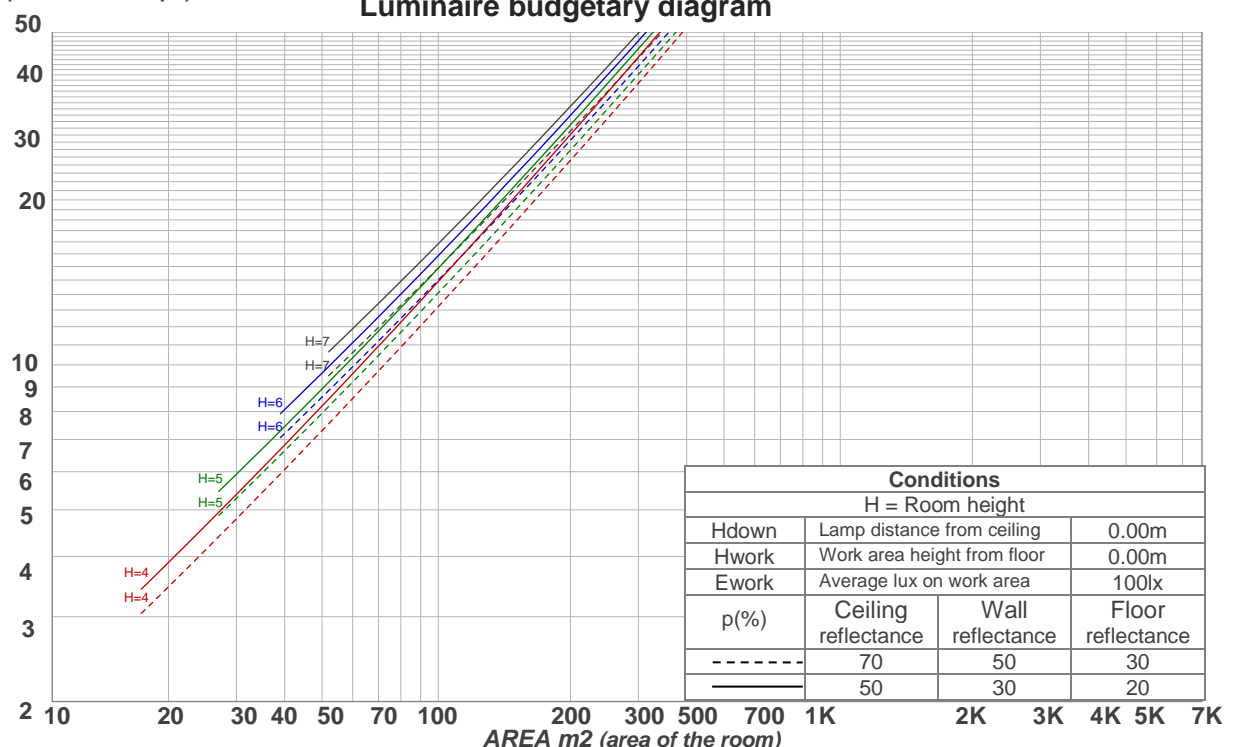
Lux at center:	180 lx
3%	5.40 lx
5%	9.00 lx
10%	18.00 lx
30%	54.00 lx
50%	90.00 lx
Conditions: Number of planes: 8 Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.	

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	109	109	109	104	104	104	99	99	99	97
1	113	110	107	105	110	107	105	103	103	101	99	98	97	96	94	93	92	90
2	107	102	98	95	105	100	96	93	96	93	91	93	91	88	90	88	86	84
3	102	96	91	87	100	94	89	86	91	87	84	88	85	82	85	83	81	79
4	97	90	84	80	95	88	83	79	86	82	78	83	80	77	81	78	76	74
5	93	84	79	75	91	83	78	74	81	77	73	79	75	72	77	74	71	70
6	88	80	74	70	87	79	73	70	77	72	69	75	71	68	74	70	67	66
7	84	75	70	66	83	75	69	65	73	68	65	72	67	64	70	67	64	62
8	81	72	66	62	79	71	66	62	70	65	61	68	64	61	67	63	61	59
9	77	68	63	59	76	68	62	59	66	62	58	65	61	58	64	60	58	56
10	74	65	60	56	73	64	59	56	63	59	55	63	58	55	62	58	55	54

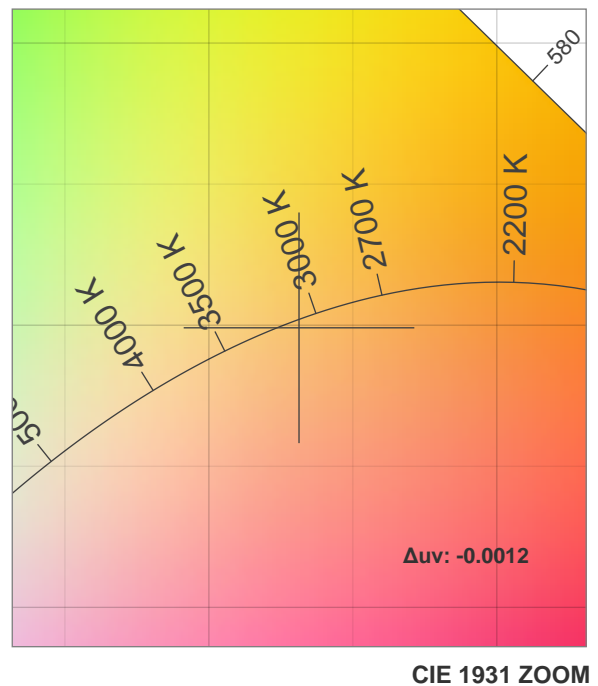
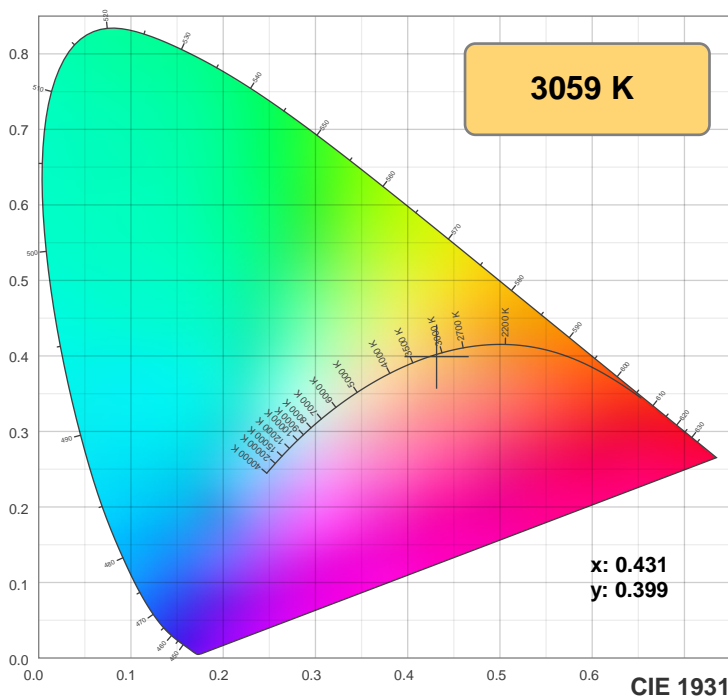
LAMPS (number of lamps)

Luminaire budgetary diagram

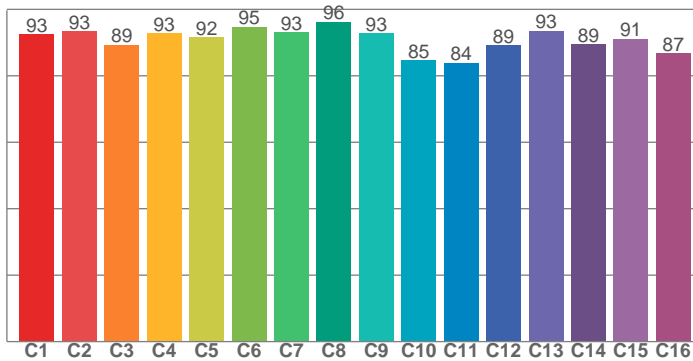


Color details

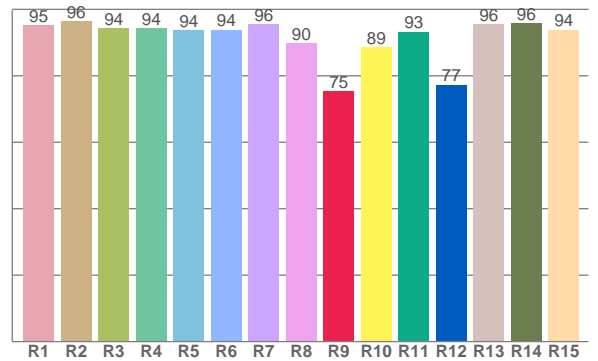
Photometric Testing Report



TM30: 90.9



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
95.3	96.3	94.3	94.3	93.7	93.9	95.5	89.7	75.4	88.5	93.3	77.3	95.6	95.7	93.8

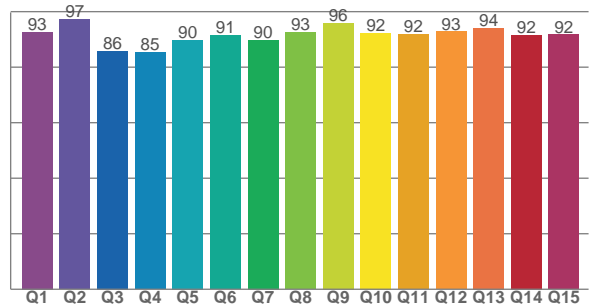
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.5	93.4	89.3	92.8	91.6	94.8	93.1	96.2	92.8	84.6	83.9	89.2	93.5	89.5	91.1	86.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92.6	97.2	85.8	85.3	89.8	91.5	89.8	92.5	96.0	92.3	91.9	92.9	94.1	91.6	91.8

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 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3059 K	94.1	75.4	90.9	100.6	91.0	0.431	0.399	0.249	0.346	-0.0012

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	15.8	16.5	16.1	16.8	17.0	15.8	16.5	16.1	16.8	17.0
	3H	15.9	16.6	16.3	16.9	17.2	15.9	16.6	16.3	16.9	17.2
	4H	16.1	16.7	16.4	17.0	17.3	16.1	16.7	16.4	17.0	17.3
	6H	16.4	17.0	16.8	17.3	17.6	16.4	17.0	16.8	17.3	17.6
	8H	16.6	17.2	17.0	17.5	17.9	16.6	17.2	17.0	17.5	17.9
	12H	16.9	17.4	17.3	17.8	18.2	16.9	17.4	17.3	17.8	18.2
4H	2H	15.7	16.3	16.0	16.6	16.9	15.7	16.3	16.0	16.6	16.9
	3H	15.9	16.5	16.3	16.8	17.2	15.9	16.5	16.3	16.8	17.2
	4H	16.2	16.7	16.7	17.1	17.5	16.2	16.7	16.7	17.1	17.5
	6H	16.8	17.1	17.2	17.6	18.0	16.8	17.1	17.2	17.6	18.0
	8H	17.1	17.5	17.6	17.9	18.4	17.1	17.5	17.6	17.9	18.4
	12H	17.6	17.9	18.1	18.3	18.8	17.6	17.9	18.1	18.3	18.8
8H	4H	16.4	16.7	16.8	17.1	17.6	16.4	16.7	16.8	17.1	17.6
	6H	17.1	17.3	17.6	17.8	18.3	17.1	17.3	17.6	17.8	18.3
	8H	17.6	17.8	18.1	18.3	18.9	17.6	17.8	18.1	18.3	18.9
	12H	18.3	18.5	18.8	19.0	19.5	18.3	18.5	18.8	19.0	19.5
12H	4H	16.4	16.7	16.9	17.1	17.6	16.4	16.7	16.9	17.1	17.6
	6H	17.2	17.4	17.7	17.9	18.4	17.2	17.4	17.7	17.9	18.4
	8H	17.8	18.0	18.3	18.5	19.0	17.8	18.0	18.3	18.5	19.0
Variation of the observer position for the luminaire distance S											
S = 1.0H		+1.7 / -1.5					+1.7 / -1.5				
S = 1.5H		+3.6 / -1.8					+3.6 / -1.8				
S = 2.0H		+5.4 / -2.2					+5.4 / -2.2				
Standard table		---					---				
Correction summand		---					---				
Corrected glare indices referring to 859 lm total luminous flux											