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T 416.996.1856 | 1.866.730.7704
F 905.709.5255 | 1.888.738.9736

Photometric Testing Report

Light efficiency:

71 Lumen/Watt

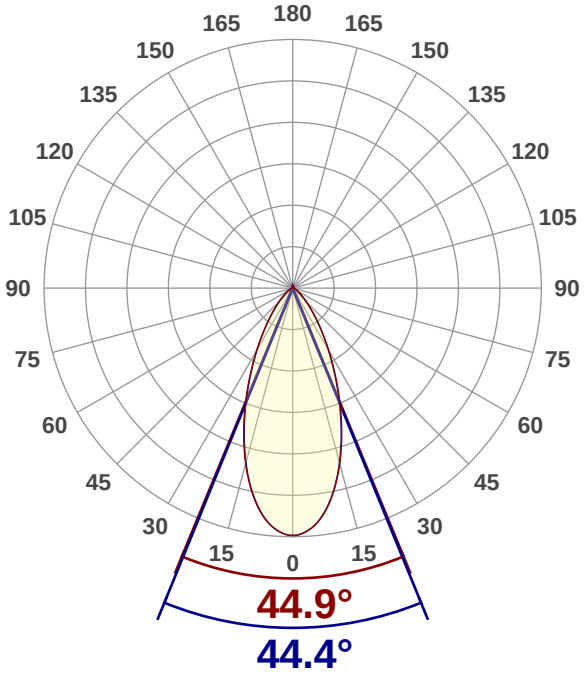
Light quality:

CRI: 93.9

Color temperature:

3001 K

Output:	**898 lm**
Peak:	**1196 cd**
Power:	**12.6 W**
Voltage:	**35.9 V**
Current:	**0.350 A**
PF:	**1.0**
THD:	**n/a %**



Product name:
H2x-1030W00xxN-xxx - 1

Driver Used:
350mA 35.9V

Test Date:
2018-10-04

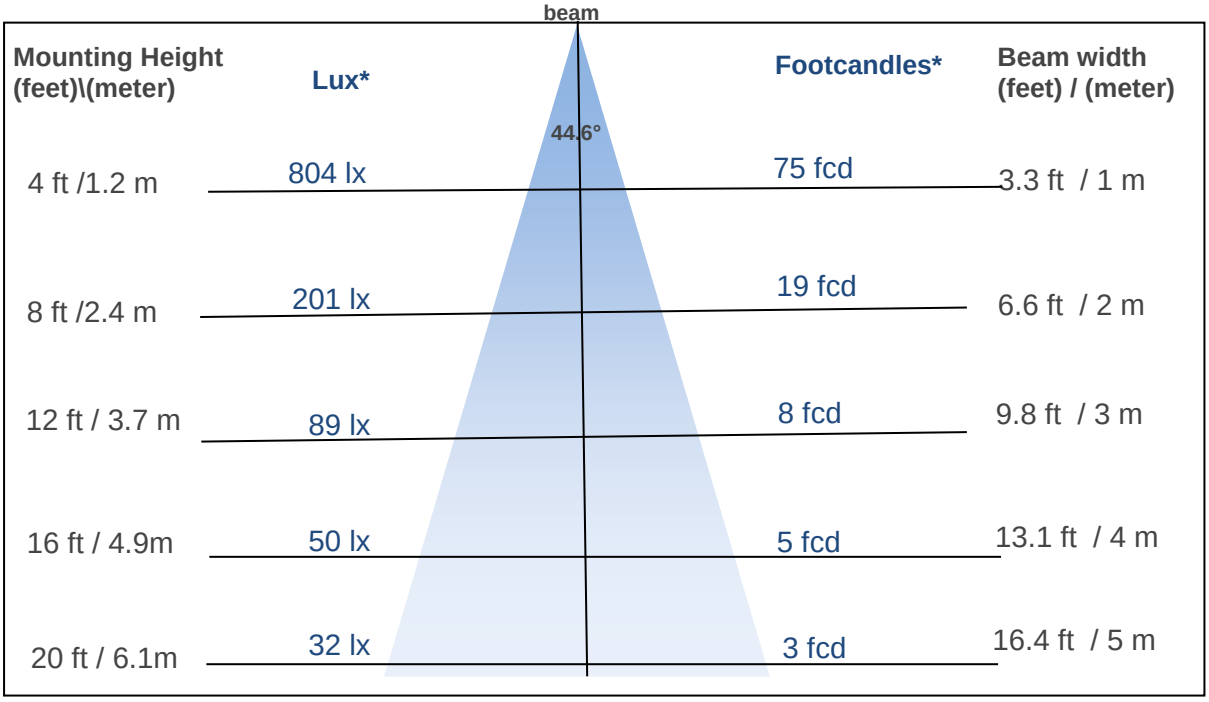
Beam Angle:
44.6°

Field Angle:
84.4°

Cut Off Angle:
115.8°

Beam details

*measured at center of beam



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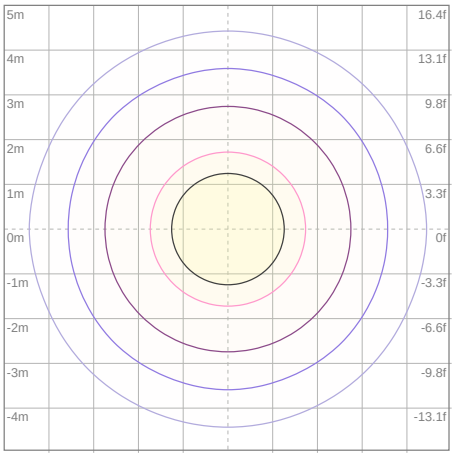
Light planning Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	578	64.37%
0-40	723	80.51%
0-60	831	92.54%
60-90	29.4	3.27%
70-100	17.1	1.90%
90-120	14.0	1.56%
0-90	860	95.77%
90-180	37.7	4.20%
0-180	898	100.00%

ISO lux diagram



Mounting height: 3.05 meters (10 feet)

Lux at center:	129 lx
3%	3.87 lx
5%	6.45 lx
10%	12.90 lx
30%	38.70 lx
50%	64.50 lx

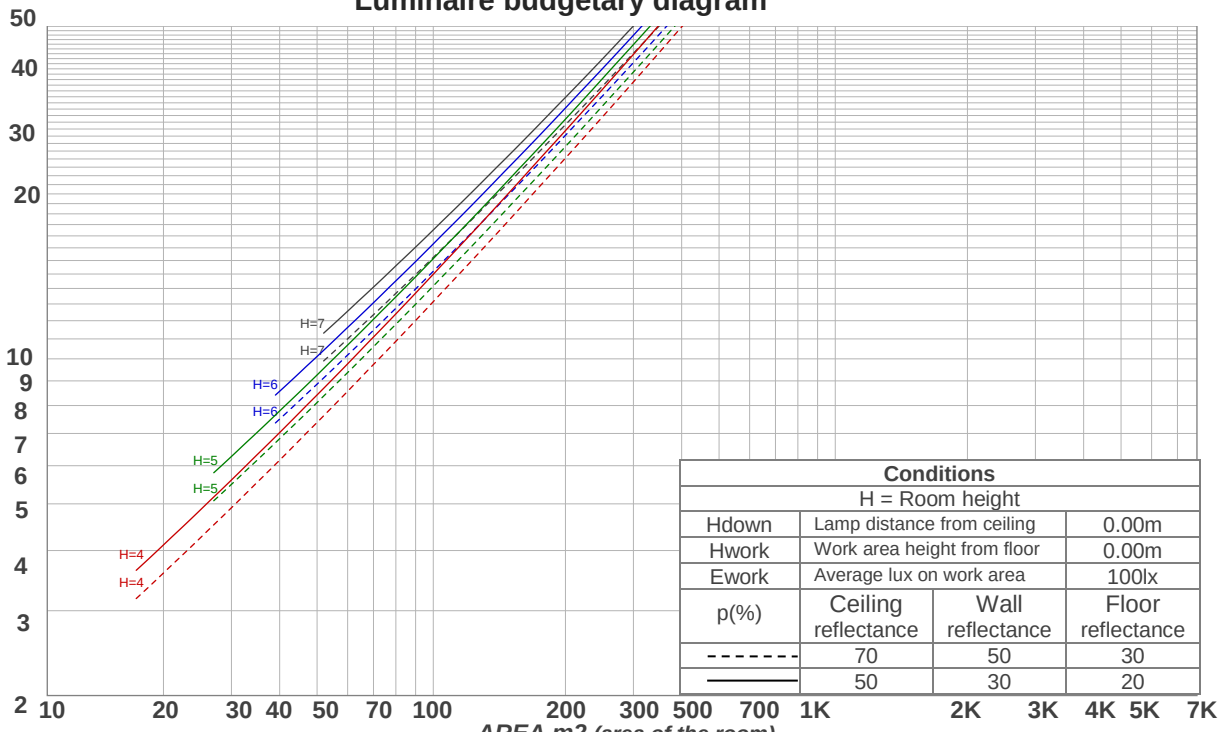
Conditions:
Number of planes: 8
Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

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	103	103	103	98	98	98	96
1	112	109	106	103	109	106	104	101	101	99	98	97	95	94	93	92	90	88
2	106	100	96	92	103	98	94	91	94	91	88	91	88	86	87	85	83	81
3	100	93	88	83	97	91	86	82	88	84	80	85	82	79	82	79	77	75
4	94	86	80	76	92	85	80	75	82	78	74	80	76	73	77	74	71	70
5	89	81	74	70	87	79	74	69	77	72	68	75	71	67	73	69	66	65
6	85	75	69	65	83	74	69	64	72	67	64	71	66	63	69	65	62	60
7	81	71	65	60	79	70	64	60	68	63	59	67	62	59	65	61	58	57
8	77	67	61	56	75	66	60	56	65	59	56	63	59	55	62	58	55	53
9	73	63	57	53	72	62	57	53	61	56	52	60	55	52	59	55	51	50
10	70	60	54	50	68	59	53	50	58	53	49	57	52	49	56	52	49	47

LAMPS (number of lamps)

Luminaire budgetary diagram



Conditions			
H = Room height			
Hdown	Lamp distance from ceiling		0.00m
Hwork	Work area height from floor		0.00m
Ework	Average lux on work area		100lx
p(%)	Ceiling reflectance	Wall reflectance	Floor reflectance
- - - - - - -	70	50	30
———	50	30	20

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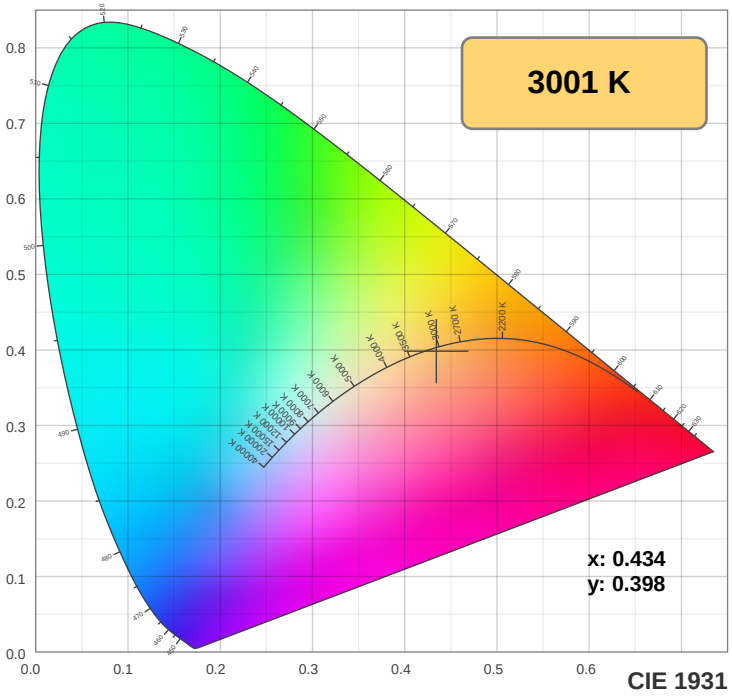
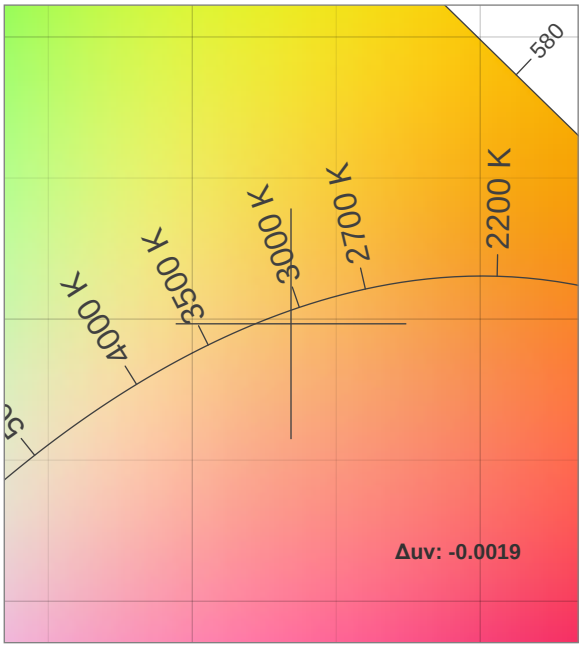
Liteline

Color details Photometric Testing Report

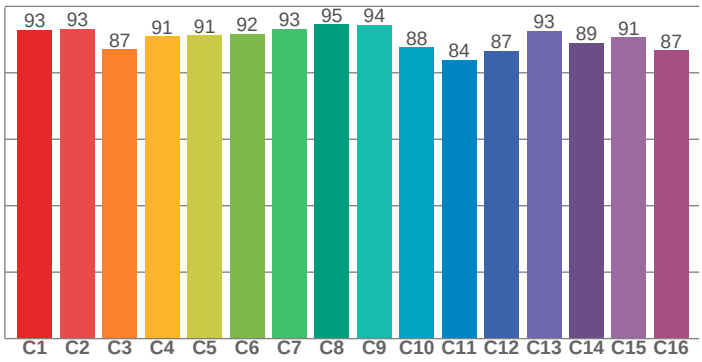


CIE 1931

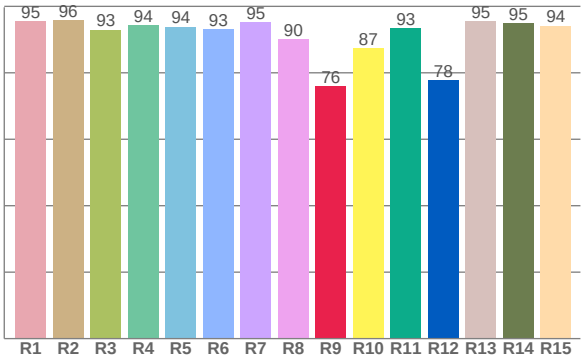


CIE 1931 ZOOM

TM30: 90.4



CRI: 93.9 (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
95.4	95.7	93.0	94.3	93.9	93.2	95.2	90.2	76.0	87.3	93.4	77.8	95.5	94.9	94.2

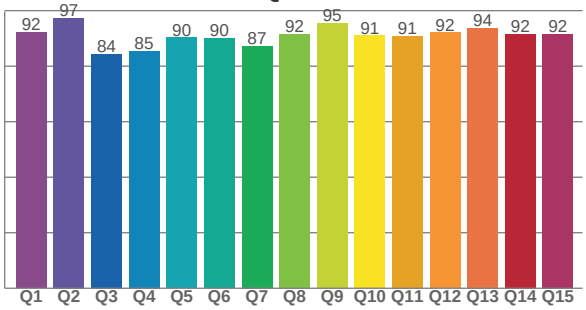
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93.0	93.3	87.1	91.0	91.3	91.7	93.2	94.6	94.5	87.7	83.9	86.6	92.6	89.1	90.6	86.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92.2	97.4	84.5	85.5	90.3	90.0	87.3	91.6	95.5	91.0	90.9	92.1	93.7	91.6	91.5

CQS: 90.3



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
3001 K	93.9	76.0	90.4	102.0	90.3	0.434	0.398	0.251	0.346	-0.0019

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	18.2	19.0	18.5	19.2	19.5	18.2	19.0	18.6	19.3	19.6
	3H	18.4	19.1	18.7	19.4	19.7	18.4	19.2	18.8	19.5	19.8
	4H	18.4	19.1	18.8	19.4	19.8	18.5	19.2	18.9	19.5	19.9
	6H	18.5	19.1	18.9	19.5	19.8	18.6	19.2	19.0	19.6	20.0
	8H	18.6	19.1	19.0	19.5	19.9	18.7	19.3	19.1	19.6	20.0
	12H	18.6	19.2	19.1	19.6	20.0	18.8	19.3	19.2	19.7	20.1
4H	2H	18.2	18.9	18.6	19.2	19.6	18.3	18.9	18.6	19.3	19.6
	3H	18.5	19.1	18.9	19.4	19.8	18.6	19.1	19.0	19.5	19.9
	4H	18.6	19.1	19.1	19.5	19.9	18.7	19.2	19.2	19.6	20.0
	6H	18.8	19.2	19.2	19.6	20.1	18.9	19.3	19.4	19.7	20.2
	8H	18.9	19.2	19.4	19.7	20.2	19.0	19.4	19.5	19.8	20.3
	12H	19.1	19.4	19.6	19.9	20.4	19.2	19.5	19.7	20.0	20.5
8H	4H	18.6	19.0	19.1	19.4	19.9	18.7	19.1	19.2	19.5	20.0
	6H	18.9	19.1	19.4	19.6	20.2	19.0	19.3	19.5	19.7	20.3
	8H	19.0	19.3	19.6	19.8	20.4	19.1	19.4	19.7	19.9	20.5
	12H	19.3	19.5	19.9	20.1	20.7	19.4	19.6	20.0	20.2	20.7
12H	4H	18.6	18.9	19.1	19.4	19.9	18.7	19.0	19.2	19.5	20.0
	6H	18.9	19.1	19.4	19.6	20.2	19.0	19.2	19.5	19.7	20.3
	8H	19.1	19.3	19.6	19.8	20.4	19.2	19.4	19.7	19.9	20.5
Variation of the observer position for the luminaire distance S											
S = 1.0H		+1.6 / -1.5					+1.5 / -1.5				
S = 1.5H		+3.4 / -2.4					+3.3 / -2.2				
S = 2.0H		+5.1 / -3.1					+4.9 / -3.0				
Standard table		BK02					BK02				
Correction summand		1.3					1.4				
Corrected glare indices referring to 898 lm total luminous flux											