LITELINE CORPORATION | LITELINE.COM
T 416.996.1856 | 1.866.730.7704
F 905.709.5255 | 1.888.738.9736

Photometric Testing Report

Light efficiency:

71 Lumen/Watt

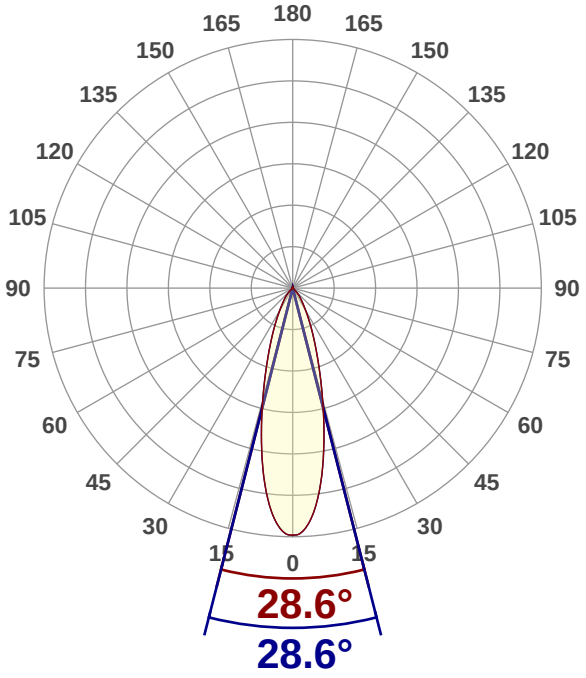
Light quality:

CRI: 93.8

Color temperature:

3074 K

Output:	**993 lm**
Peak:	**2691 cd**
Power:	**13.9 W**
Voltage:	**120 V**
Current:	**0.116 A**
PF:	**0.9**
THD:	**n/a %**



Product name:
H2x-1030N00xxN-xxx - 1

Driver Used:

Test Date:
2019-08-16

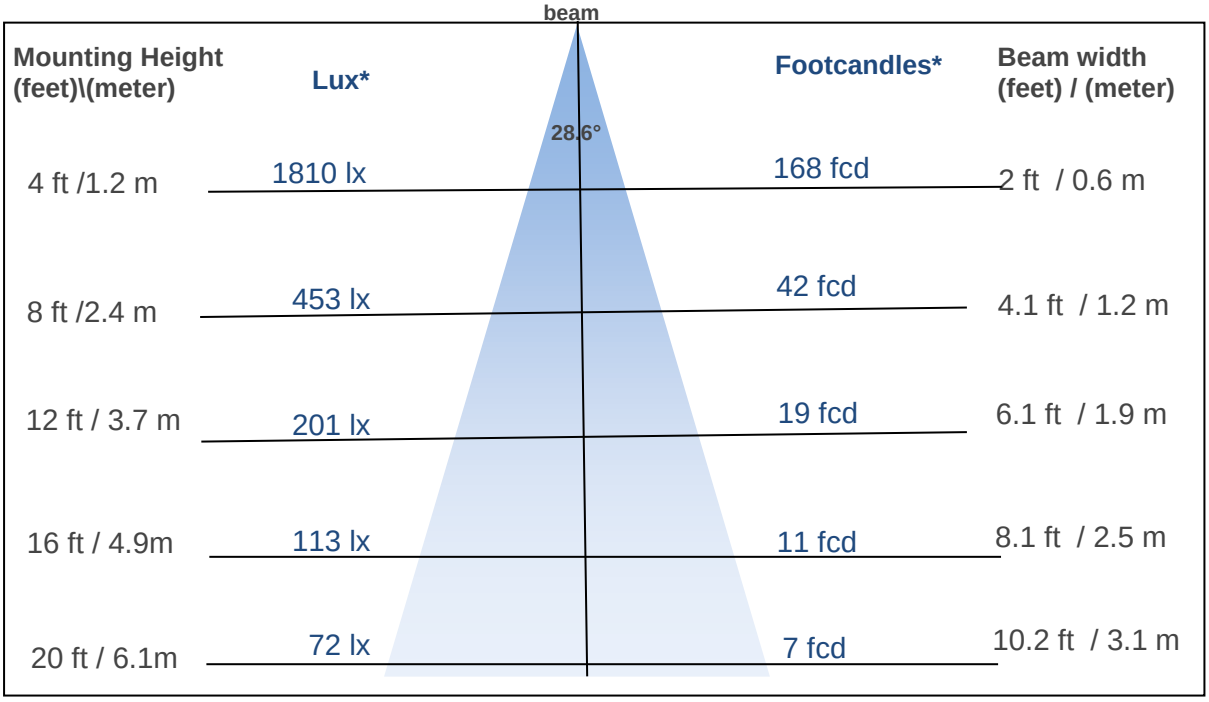
Beam Angle:
28.6°

Field Angle:
61°

Cut Off Angle:
85.6°

Beam details

*measured at center of beam



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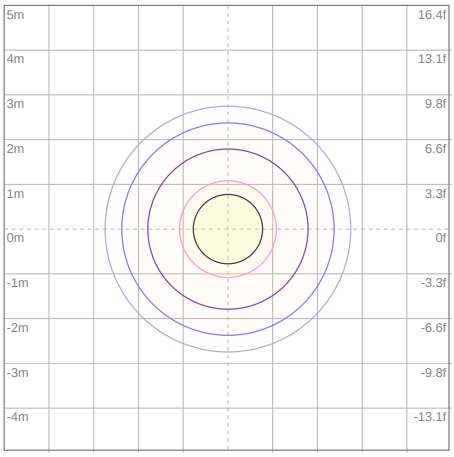
Light planning Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	787	79.25%
0-40	899	90.53%
0-60	948	95.47%
60-90	17.2	1.73%
70-100	14.6	1.47%
90-120	12.3	1.24%
0-90	966	97.28%
90-180	27.4	2.76%
0-180	993	100.00%

ISO lux diagram



Mounting height: 3.05 meters (10 feet)

Lux at center:	289 lx
3%	8.67 lx
5%	14.45 lx
10%	28.90 lx
30%	86.70 lx
50%	144.50 lx

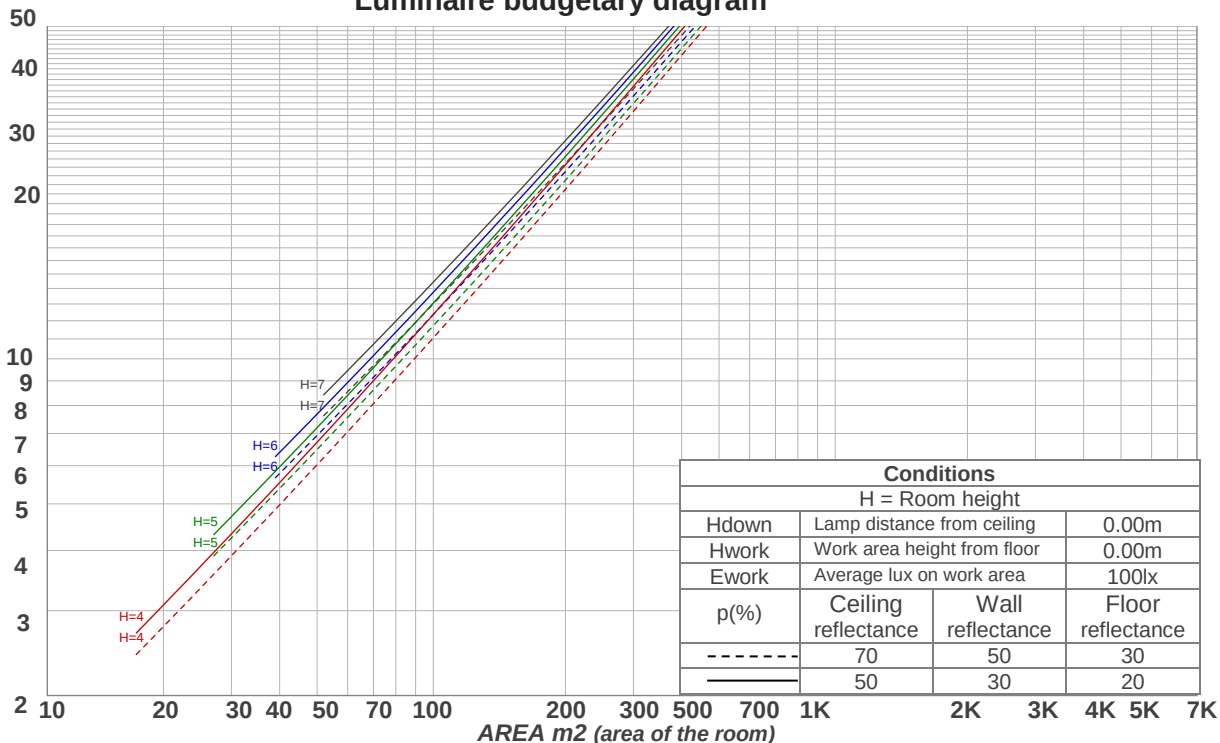
Conditions:
Number of planes: 8
Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

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	110	110	110	104	104	104	100	100	100	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	98	95	98	95	93	95	93	91	92	90	88	87
3	104	98	93	90	101	96	92	89	93	90	87	90	88	85	88	86	84	82
4	99	92	87	84	97	91	87	83	89	85	82	86	83	81	84	82	79	78
5	95	88	82	79	93	87	82	78	85	80	77	83	79	76	81	78	75	74
6	91	83	78	74	90	82	78	74	81	76	73	79	75	73	78	74	72	71
7	88	79	74	71	86	79	74	70	77	73	70	76	72	69	75	71	69	67
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	68	66	64
9	81	73	68	64	80	72	67	64	71	67	64	70	66	63	69	66	63	62
10	78	70	65	62	77	69	65	61	68	64	61	68	64	61	67	63	61	59

Luminaire budgetary diagram

LAMPS (number of lamps)



AREA m2 (area of the room)

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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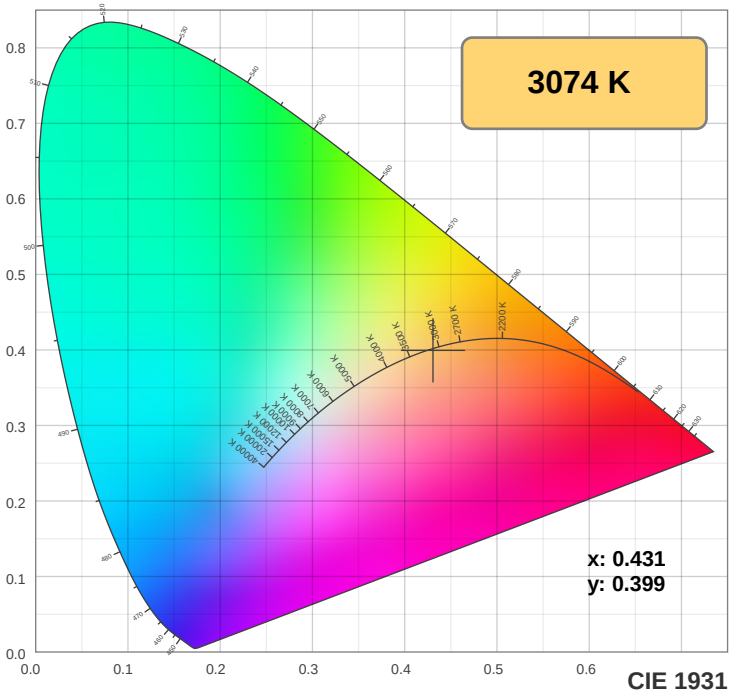
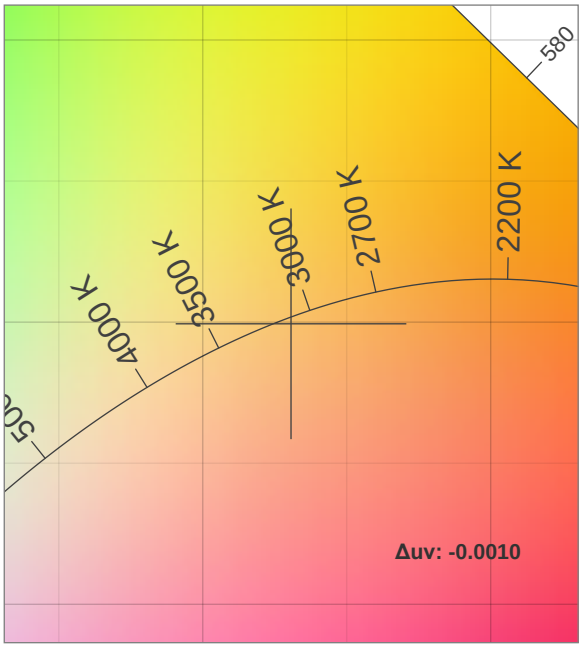
Liteline

Color details Photometric Testing Report

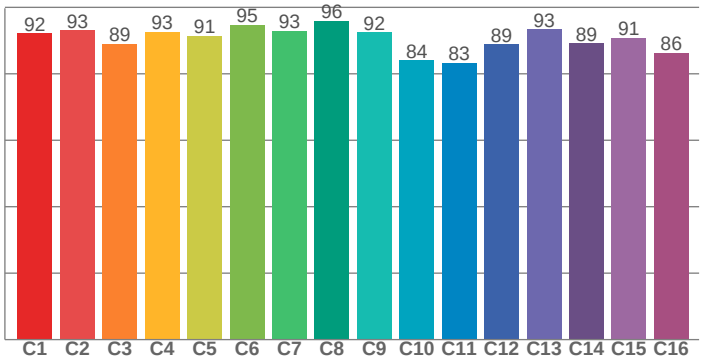


CIE 1931

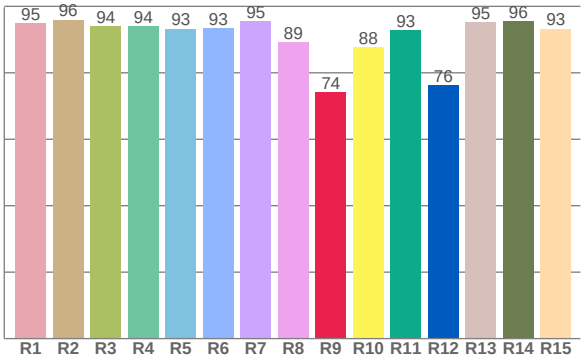


CIE 1931 ZOOM

TM30: 90.5



CRI: 93.8 (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
94.8	96.0	94.1	93.9	93.2	93.4	95.5	89.3	74.1	87.8	92.8	76.2	95.1	95.6	93.3

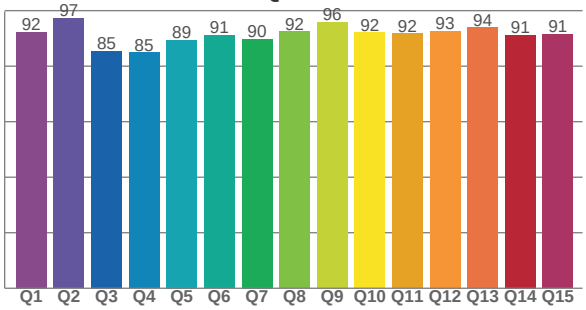
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.2	93.1	89.0	92.6	91.4	94.8	92.9	96.0	92.5	84.1	83.3	88.9	93.4	89.2	90.8	86.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92.4	97.2	85.5	84.9	89.5	91.1	89.7	92.5	95.9	92.2	91.7	92.7	93.9	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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3074 K	93.8	74.1	90.5	100.4	90.8	0.431	0.399	0.249	0.346	-0.0010

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	14.2	14.9	14.5	15.2	15.4	14.2	14.9	14.5	15.2	15.4
	3H	14.3	15.0	14.6	15.2	15.5	14.3	15.0	14.6	15.2	15.5
	4H	14.5	15.1	14.8	15.4	15.7	14.5	15.1	14.8	15.4	15.7
	6H	14.8	15.3	15.2	15.7	16.0	14.8	15.3	15.2	15.7	16.0
	8H	15.0	15.5	15.4	15.9	16.2	15.0	15.5	15.4	15.9	16.2
	12H	15.3	15.8	15.7	16.1	16.5	15.3	15.8	15.7	16.1	16.5
4H	2H	14.1	14.7	14.4	15.0	15.3	14.1	14.7	14.4	15.0	15.3
	3H	14.3	14.8	14.7	15.2	15.5	14.3	14.8	14.7	15.2	15.5
	4H	14.6	15.1	15.0	15.4	15.8	14.6	15.1	15.0	15.4	15.8
	6H	15.1	15.5	15.6	15.9	16.3	15.1	15.5	15.6	15.9	16.3
	8H	15.5	15.8	15.9	16.2	16.7	15.5	15.8	15.9	16.2	16.7
	12H	15.9	16.2	16.4	16.7	17.1	15.9	16.2	16.4	16.7	17.1
8H	4H	14.7	15.1	15.2	15.5	16.0	14.7	15.1	15.2	15.5	16.0
	6H	15.5	15.7	15.9	16.2	16.7	15.5	15.7	15.9	16.2	16.7
	8H	16.0	16.2	16.5	16.7	17.2	16.0	16.2	16.5	16.7	17.2
	12H	16.6	16.8	17.1	17.3	17.8	16.6	16.8	17.1	17.3	17.8
12H	4H	14.8	15.0	15.2	15.5	16.0	14.8	15.0	15.2	15.5	16.0
	6H	15.5	15.8	16.1	16.2	16.8	15.5	15.8	16.1	16.2	16.8
	8H	16.1	16.3	16.7	16.8	17.4	16.1	16.3	16.7	16.8	17.4
Variation of the observer position for the luminaire distance S											
S = 1.0H		+2.0 / -1.6					+2.0 / -1.6				
S = 1.5H		+4.1 / -1.9					+4.1 / -1.9				
S = 2.0H		+5.9 / -2.2					+5.9 / -2.2				
Standard table		---					---				
Correction summand		---					---				
Corrected glare indices referring to 993 lm total luminous flux											