

Light efficiency:



Light quality:



Color temperature:



Output: 219 lm

Peak: 105 cd

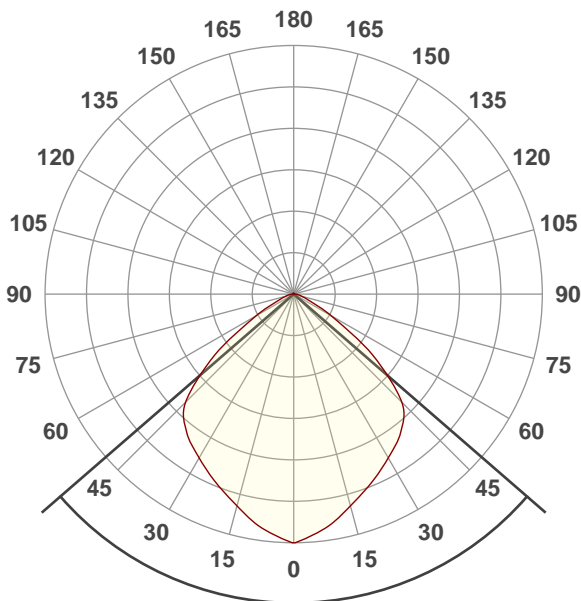
Power: 4.5 W

Voltage: 117 V

Current: 0.075 A

PF: 0.51

THD: 144.2 %



98.1°

Product name:

PRO-1330-24H-FWH -90CRI

Driver Used:

Test Date:

1/25/2018

Beam Angle:

98.1°

Field Angle:

130°

Cut Off Angle:

158.2°

Beam details

*measured at center of beam

Mounting Height (feet)\(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	71 lx	7 fcd	9.2 ft / 2.8 m
8 ft / 2.4 m	18 lx	2 fcd	18.4 ft / 5.6 m
12 ft / 3.7 m	8 lx	1 fcd	27.7 ft / 8.4 m
16 ft / 4.9m	4 lx	0 fcd	36.9 ft / 11.2 m
20 ft / 6.1m	3 lx	0 fcd	46.1 ft / 14.1 m

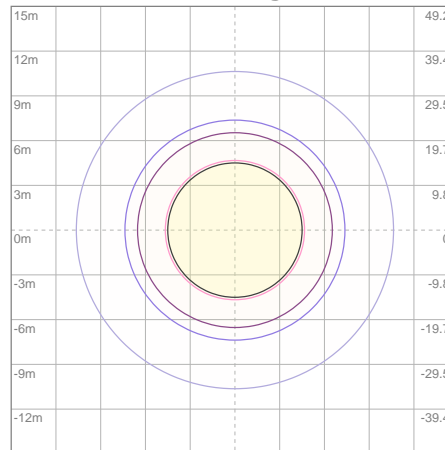
Beam center

Light planning Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	74.8	34.16%
0-40	123	56.16%
0-60	201	91.78%
60-90	16.5	7.53%
70-100	5.91	2.70%
90-120	1.04	0.47%
0-90	217	99.09%
90-180	1.99	0.91%
0-180	219	100.00%

ISO lux diagram



Lux at center:		11 lx
— (blue)	3%	0.33 lx
— (purple)	5%	0.55 lx
— (red)	10%	1.10 lx
— (orange)	30%	3.30 lx
— (yellow)	50%	5.50 lx

Conditions:
 Number of planes: 1
 Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

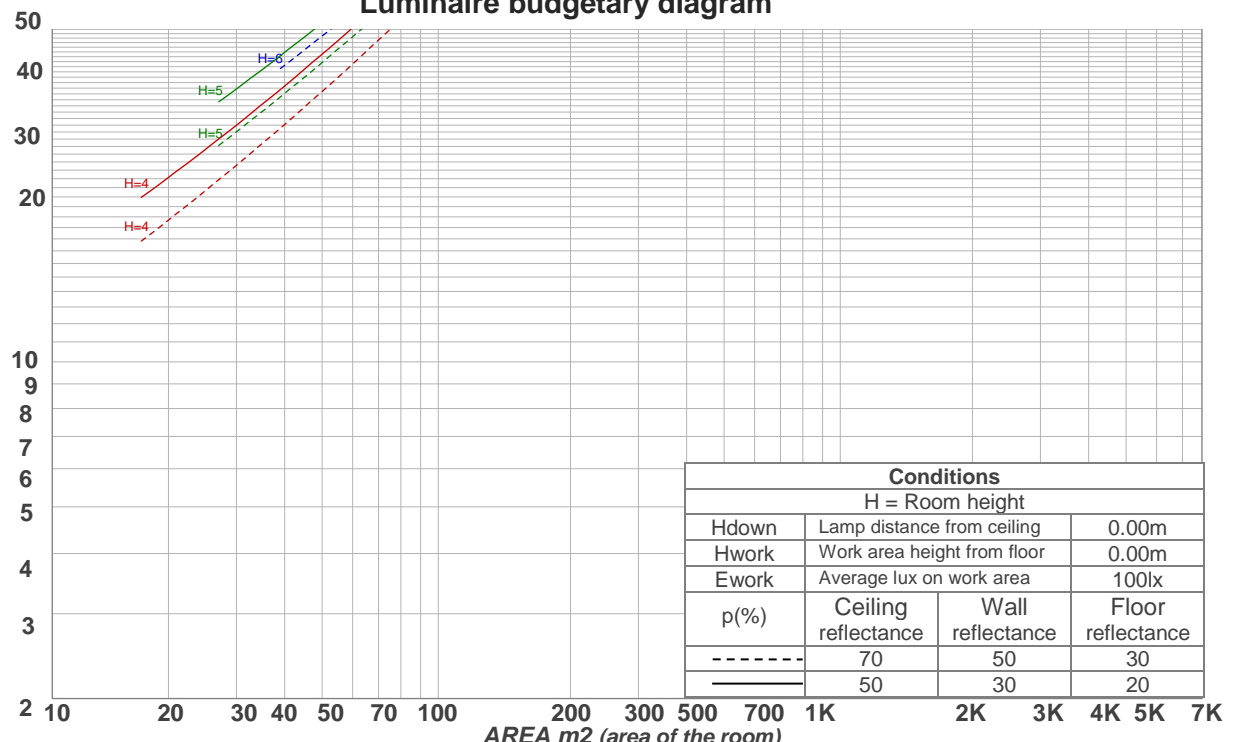
Mounting height: 3.05 meters (10 feet)

Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	111	111	111	106	106	106	101	101	101	99
1	111	107	103	100	108	104	101	99	100	98	95	96	94	92	93	91	89	87
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	73	70	76	72	68	66
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	68	64	60	58
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	57	52	47	45
7	70	57	49	44	68	57	49	43	55	48	43	53	47	43	52	47	42	41
8	65	53	45	39	64	52	44	39	50	44	39	49	43	39	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	45	39	35	44	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

LAMPS (number of lamps)

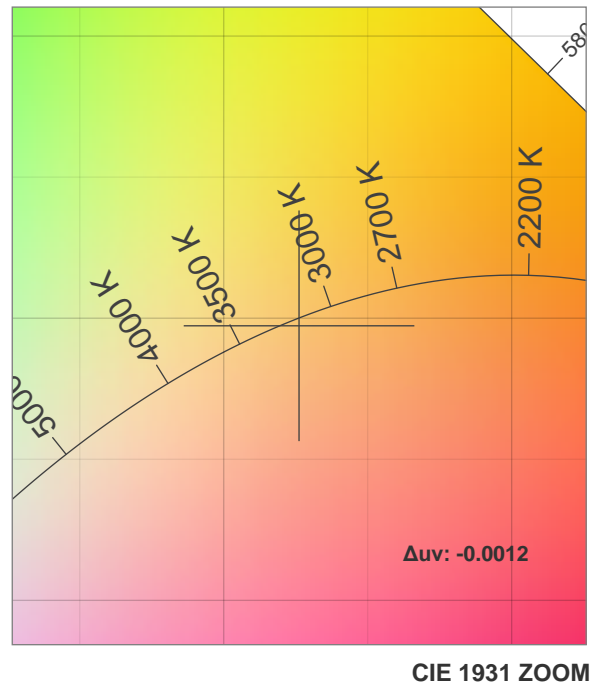
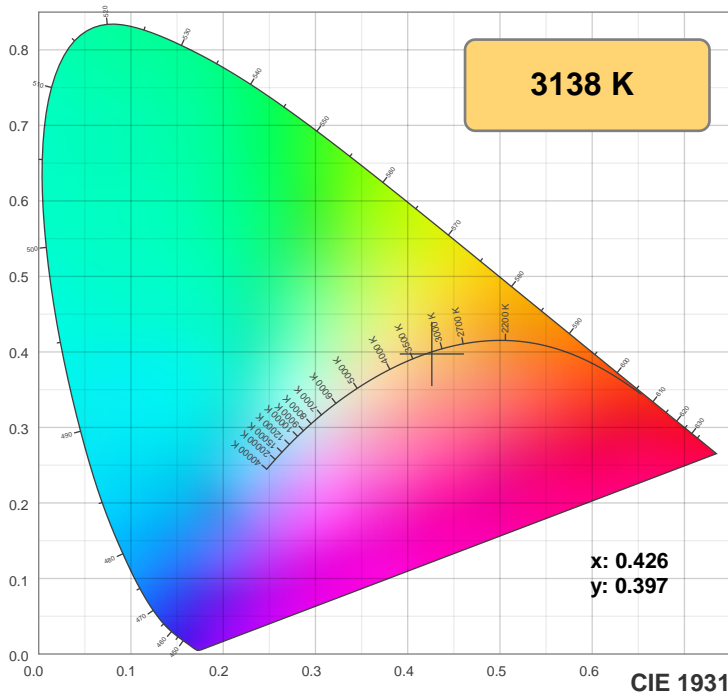
Luminaire budgetary diagram



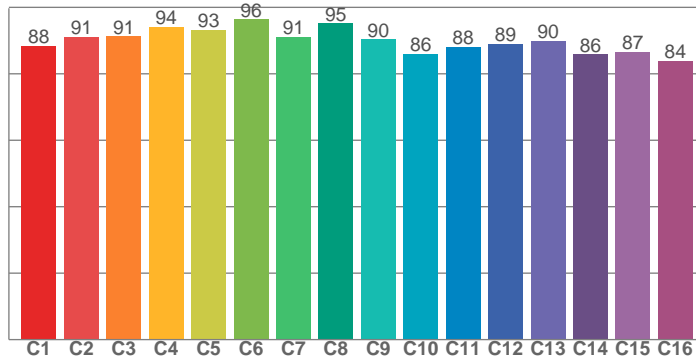
Conditions			
H = Room height			
Hdown	Lamp distance from ceiling	0.00m	
Hwork	Work area height from floor	0.00m	
Ework	Average lux on work area	100lx	
p(%)	Ceiling reflectance	Wall reflectance	Floor reflectance
-----	70	50	30
—————	50	30	20

Color details

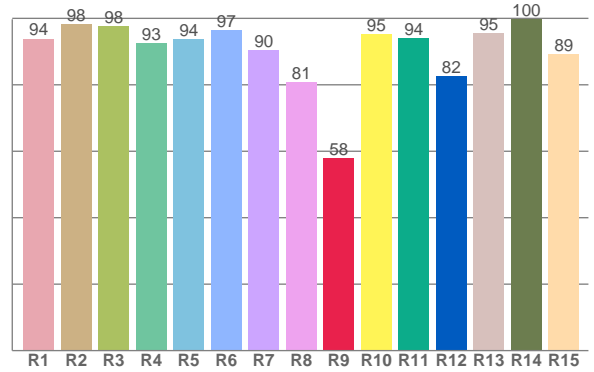
Photometric Testing Report



TM30: 90.2



CRI: 93.0 (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
93.8	98.3	97.6	92.6	93.7	96.5	90.4	80.7	58.0	95.2	93.9	82.5	95.4	99.6	89.3

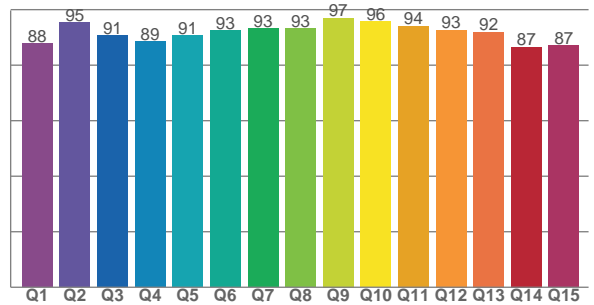
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88.5	91.2	91.3	94.1	93.2	96.3	91.1	95.2	90.4	86.0	88.2	88.9	89.8	85.9	86.5	83.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.8	95.4	90.6	88.5	90.7	92.5	93.2	93.2	97.0	95.7	94.0	92.7	91.9	86.6	87.0

CQS: 91.1



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
3138 K	93.0	58.0	90.2	97.7	91.1	0.426	0.397	0.246	0.345	-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	19.9	21.0	20.2	21.2	21.5	19.9	21.0	20.2	21.2	21.5
	3H	20.0	21.0	20.4	21.3	21.6	20.0	21.0	20.4	21.3	21.6
	4H	20.0	21.0	20.4	21.3	21.6	20.0	21.0	20.4	21.3	21.6
	6H	20.1	20.9	20.4	21.2	21.6	20.1	20.9	20.4	21.2	21.6
	8H	20.1	20.9	20.4	21.2	21.6	20.1	20.9	20.4	21.2	21.6
	12H	20.1	20.9	20.5	21.2	21.6	20.1	20.9	20.5	21.2	21.6
4H	2H	20.0	20.9	20.3	21.2	21.5	20.0	20.9	20.3	21.2	21.5
	3H	20.2	21.0	20.6	21.3	21.7	20.2	21.0	20.6	21.3	21.7
	4H	20.3	21.0	20.7	21.3	21.7	20.3	21.0	20.7	21.3	21.7
	6H	20.4	21.0	20.8	21.3	21.8	20.4	21.0	20.8	21.3	21.8
	8H	20.4	20.9	20.8	21.4	21.8	20.4	20.9	20.8	21.4	21.8
	12H	20.5	20.9	20.9	21.4	21.8	20.5	20.9	20.9	21.4	21.8
8H	4H	20.3	20.8	20.7	21.2	21.6	20.3	20.8	20.7	21.2	21.6
	6H	20.4	20.8	20.9	21.3	21.7	20.4	20.8	20.9	21.3	21.7
	8H	20.5	20.9	21.0	21.3	21.8	20.5	20.9	21.0	21.3	21.8
	12H	20.6	20.9	21.1	21.4	21.9	20.6	20.9	21.1	21.4	21.9
12H	4H	20.2	20.7	20.7	21.2	21.6	20.2	20.7	20.7	21.2	21.6
	6H	20.4	20.8	20.9	21.2	21.7	20.4	20.8	20.9	21.2	21.7
	8H	20.5	20.8	21.0	21.3	21.8	20.5	20.8	21.0	21.3	21.8
Variation of the observer position for the luminaire distance S											
S = 1.0H		+0.6 / -0.8					+0.6 / -0.8				
S = 1.5H		+1.3 / -2.6					+1.3 / -2.6				
S = 2.0H		+2.7 / -4.1					+2.7 / -4.1				
Standard table		BK01					BK01				
Correction summand		2.5					2.5				
Corrected glare indices referring to 219 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.