

Light efficiency:



Light quality:



Color temperature:



Output: 1067 lm

Peak: 4446 cd

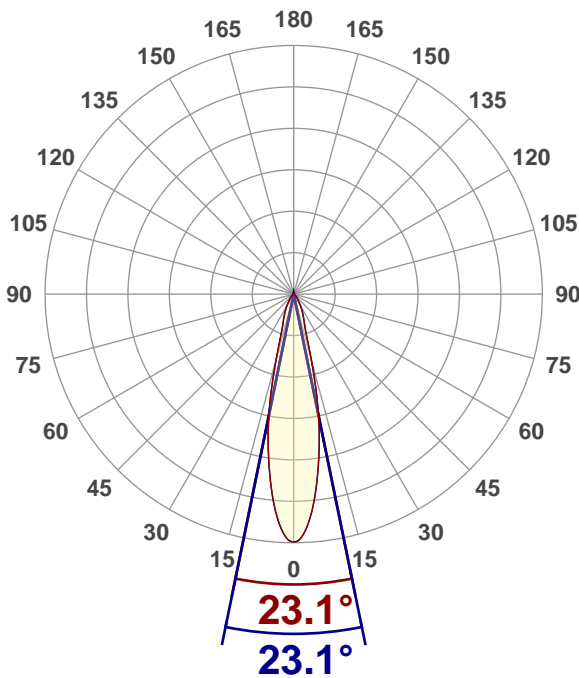
Power: 11.2 W

Voltage: 119 V

Current: 0.099 A

PF: 0.95

THD: 31.94 %



Product name:

RA4-12RG-3018-90WH

Driver Used:

Test Date:

2019-07-29

Beam Angle:

23.1°

Field Angle:

46.2°

Cut Off Angle:

77.3°

Beam details

**measured at center of beam*

Mounting Height (feet)\(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	2991 lx	278 fcd	1.6 ft / 0.5 m
8 ft / 2.4 m	748 lx	69 fcd	3.3 ft / 1 m
12 ft / 3.7 m	332 lx	31 fcd	4.9 ft / 1.5 m
16 ft / 4.9m	187 lx	17 fcd	6.6 ft / 2 m
20 ft / 6.1m	120 lx	11 fcd	8.2 ft / 2.5 m

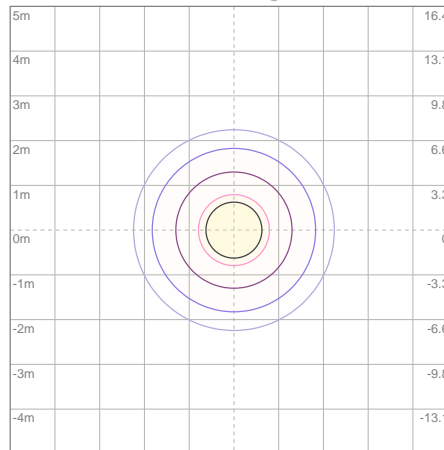
Beam center

Light planning Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	859	80.51%
0-40	956	89.60%
0-60	1025	96.06%
60-90	16.2	1.52%
70-100	13.2	1.24%
90-120	11.5	1.08%
0-90	1041	97.56%
90-180	25.9	2.43%
0-180	1067	100.00%

ISO lux diagram



Lux at center:	478 lx
3%	14.34 lx
5%	23.90 lx
10%	47.80 lx
30%	143.40 lx
50%	239.00 lx

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

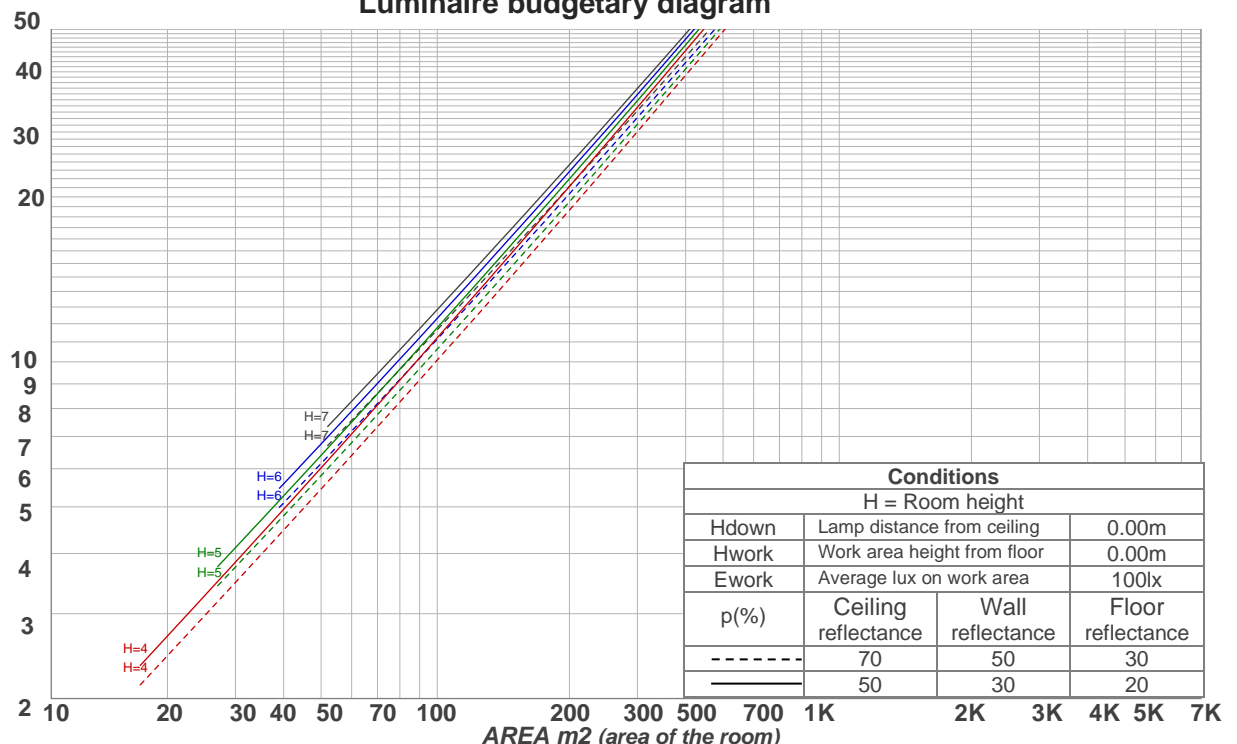
Mounting height: 3.05 meters (10 feet)

Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0			
Wall reflectance	70	50	30	10	70	50	30	10	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	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	105	105	105	100	100	100	98	98	98	98
1	114	111	109	107	111	109	107	105	104	103	101	100	99	98	96	95	95	93	93	93	93
2	109	105	101	98	106	103	99	97	99	97	94	96	94	92	93	91	90	88	88	88	88
3	104	99	95	91	102	97	94	90	95	91	89	92	89	87	89	87	85	84	84	84	84
4	100	94	89	86	99	93	88	85	90	87	84	88	85	83	86	84	82	80	80	80	80
5	97	90	85	81	95	89	84	81	87	83	80	85	82	79	83	80	78	77	77	77	77
6	93	86	81	77	92	85	80	77	83	79	76	82	78	76	80	77	75	74	74	74	74
7	90	82	77	74	89	82	77	74	80	76	73	79	75	73	78	74	72	71	71	71	71
8	87	79	74	71	86	79	74	71	77	73	70	76	73	70	75	72	69	68	68	68	68
9	84	76	72	68	83	76	71	68	75	71	68	74	70	67	73	70	67	66	66	66	66
10	81	74	69	66	81	73	69	66	72	68	66	72	68	65	71	67	65	64	64	64	64

LAMPS (number of lamps)

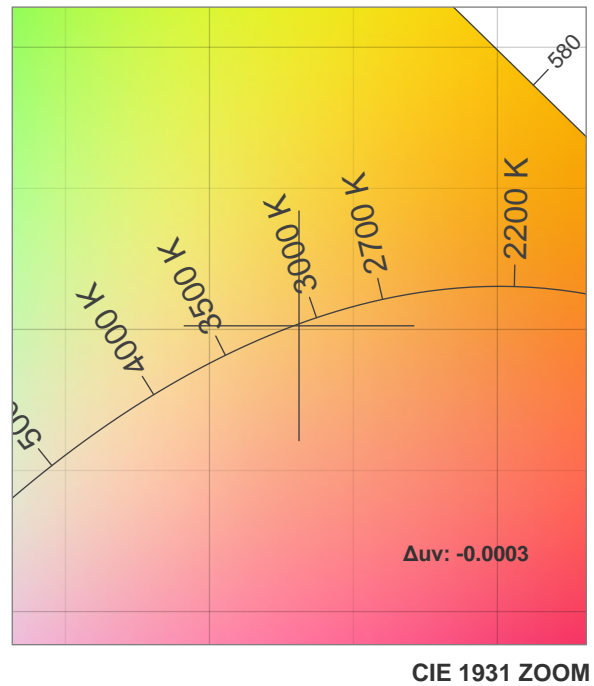
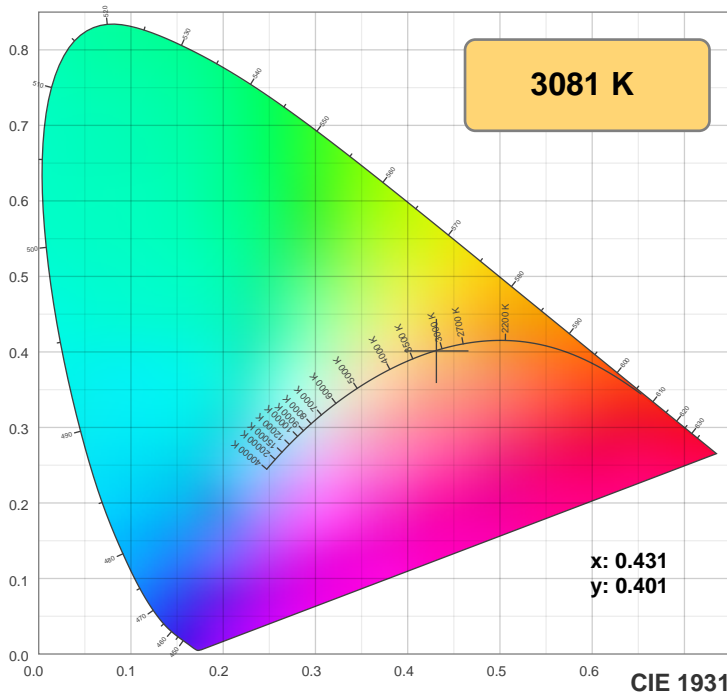
Luminaire budgetary diagram



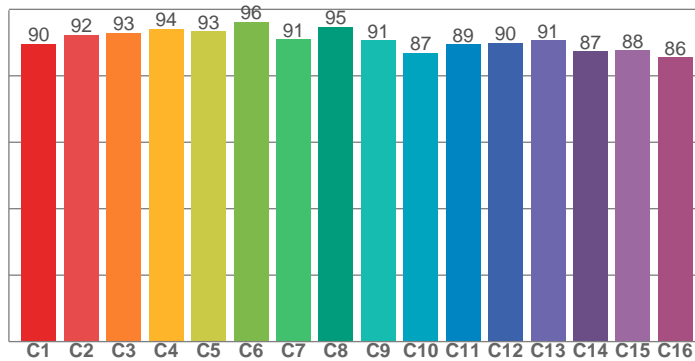
Conditions			
H = Room height			
Hdown	Lamp distance from ceiling	0.00m	
Hwork	Work area height from floor	0.00m	
Ework	Average lux on work area	100lx	
p(%)	Ceiling reflectance	Wall reflectance	Floor reflectance
-----	70	50	30
—————	50	30	20

Color details

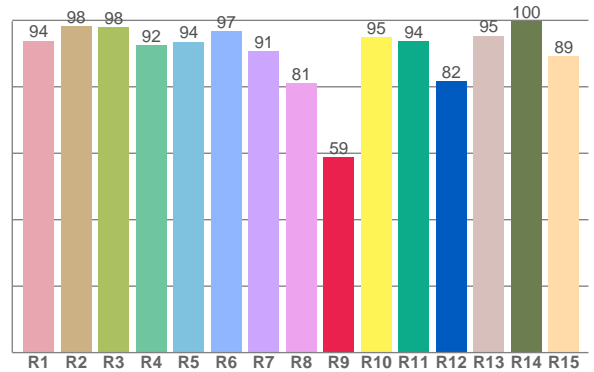
Photometric Testing Report



TM30: 91.0



CRI: 93.1 (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
93.8	98.3	98.0	92.5	93.6	96.8	90.7	81.1	58.8	95.0	93.8	81.6	95.3	99.8	89.3

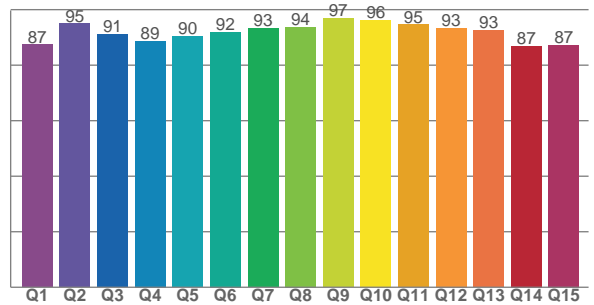
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.5	92.4	93.0	94.1	93.4	96.3	91.0	94.8	90.6	86.9	89.4	89.9	90.6	87.3	87.6	85.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.5	95.0	91.1	88.6	90.4	92.0	93.3	93.8	96.9	96.2	94.6	93.4	92.5	86.9	87.3

CQS: 91.3



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3081 K	93.1	58.8	91.0	97.2	91.3	0.431	0.401	0.248	0.346	-0.0003

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	15.7	16.2	15.8	16.4	16.7	15.7	16.2	15.8	16.4	16.7
	3H	15.6	16.2	16.0	16.5	16.7	15.6	16.2	16.0	16.5	16.7
	4H	15.6	16.3	16.1	16.5	16.8	15.6	16.3	16.1	16.5	16.8
	6H	15.8	16.3	16.2	16.7	17.1	15.8	16.3	16.2	16.7	17.1
	8H	16.0	16.5	16.3	16.8	17.2	16.0	16.5	16.3	16.8	17.2
	12H	16.2	16.7	16.6	17.1	17.5	16.2	16.7	16.6	17.1	17.5
4H	2H	15.4	16.0	15.8	16.3	16.6	15.4	16.0	15.8	16.3	16.6
	3H	15.6	16.1	16.0	16.5	16.9	15.6	16.1	16.0	16.5	16.9
	4H	15.7	16.2	16.1	16.6	17.1	15.7	16.2	16.1	16.6	17.1
	6H	15.9	16.4	16.5	16.8	17.2	15.9	16.4	16.5	16.8	17.2
	8H	16.2	16.6	16.7	17.0	17.4	16.2	16.6	16.7	17.0	17.4
	12H	16.6	16.9	17.1	17.4	17.9	16.6	16.9	17.1	17.4	17.9
8H	4H	15.7	16.1	16.2	16.5	16.9	15.7	16.1	16.2	16.5	16.9
	6H	16.1	16.4	16.6	16.9	17.4	16.1	16.4	16.6	16.9	17.4
	8H	16.5	16.7	17.1	17.3	18.0	16.5	16.7	17.1	17.3	18.0
	12H	17.2	17.4	17.8	17.9	18.5	17.2	17.4	17.8	17.9	18.5
12H	4H	15.6	16.0	16.2	16.4	16.9	15.6	16.0	16.2	16.4	16.9
	6H	16.2	16.4	16.7	17.0	17.6	16.2	16.4	16.7	17.0	17.6
	8H	16.6	16.8	17.3	17.4	18.0	16.6	16.8	17.3	17.4	18.0
Variation of the observer position for the luminaire distance S											
S = 1.0H		1.3 / -1.1					1.3 / -1.1				
S = 1.5H		2.9 / -1.6					2.9 / -1.6				
S = 2.0H		4.4 / -1.9					4.4 / -1.9				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1067 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.