

Light efficiency:



Light quality:



Color temperature:



Output: 630 lm

Peak: 949 cd

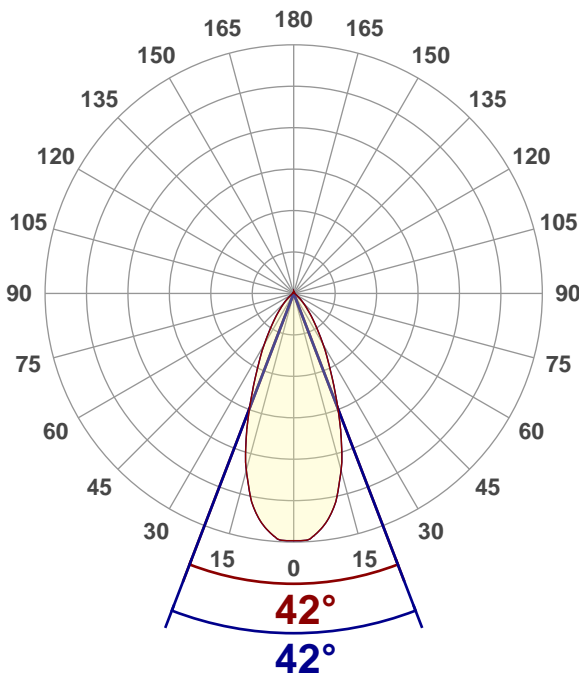
Power: 9.2 W

Voltage: 119 V

Current: 0.079 A

PF: 0.98

THD: 16.35 %



Product name:
RA4S-9G-90WH - 27K

Driver Used:
SLM-DVR-9W

Test Date:
2019-06-27

Beam Angle:
42°

Field Angle:
78.6°

Cut Off Angle:
104.7°

Beam details

*measured at center of beam

Mounting Height (feet)/(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	638 lx	59 fcd	3.1 ft / 0.9 m
8 ft / 2.4 m	160 lx	15 fcd	6.1 ft / 1.9 m
12 ft / 3.7 m	71 lx	7 fcd	9.2 ft / 2.8 m
16 ft / 4.9m	40 lx	4 fcd	12.3 ft / 3.7 m
20 ft / 6.1m	26 lx	2 fcd	15.4 ft / 4.7 m

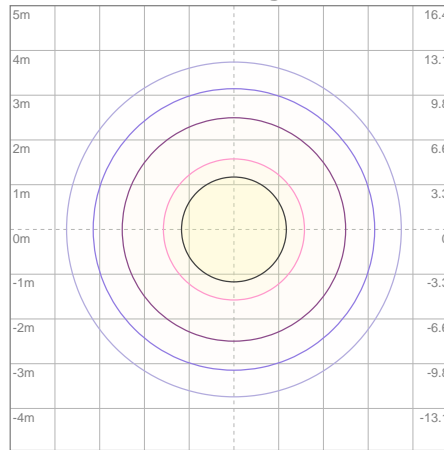
Beam center

Light planning Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	437	69.37%
0-40	528	83.81%
0-60	586	93.02%
60-90	19.1	3.03%
70-100	14.1	2.24%
90-120	11.7	1.86%
0-90	605	96.03%
90-180	24.6	3.90%
0-180	630	100.00%

ISO lux diagram



Lux at center:	102 lx
3%	3.06 lx
5%	5.10 lx
10%	10.20 lx
30%	30.60 lx
50%	51.00 lx

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

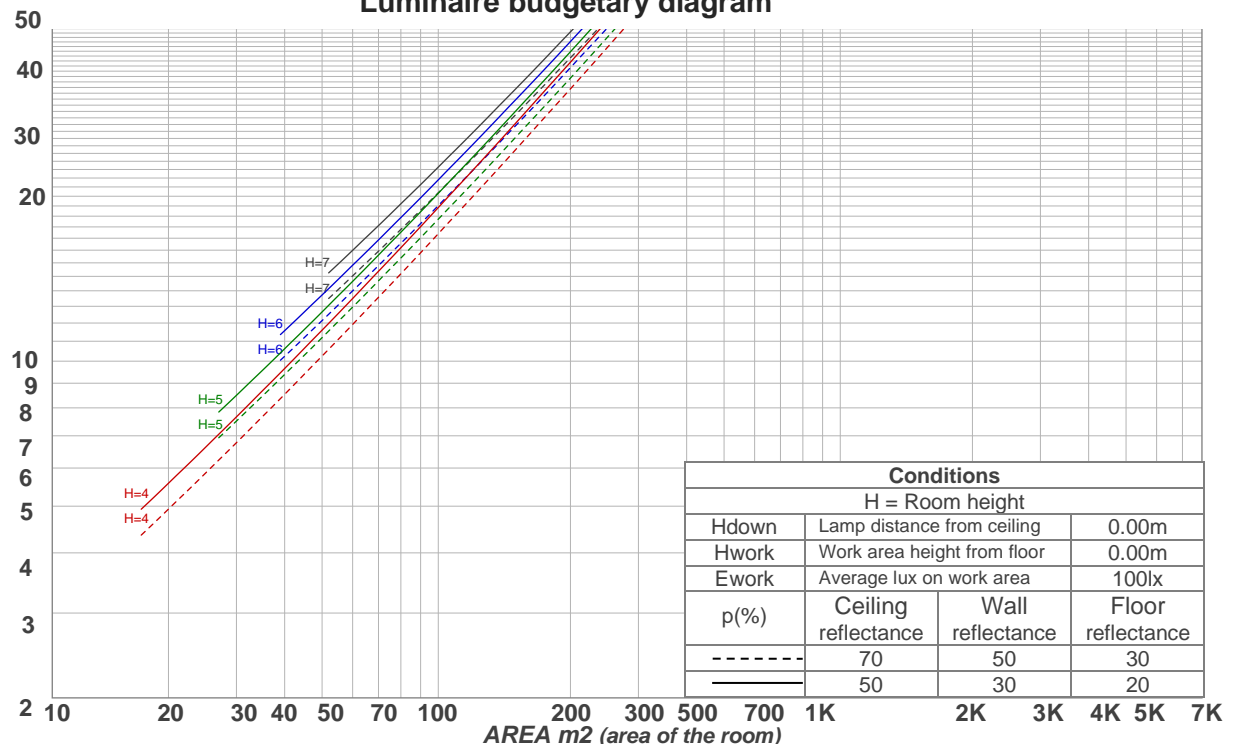
Mounting height: 3.05 meters (10 feet)

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	109	109	109	103	103	103	98	98	98	96	96	96	
1	112	109	106	104	109	107	104	102	102	100	98	97	96	95	93	92	91	89	89	89	
2	106	101	97	93	104	99	95	92	95	92	89	92	89	87	88	86	85	83	83	83	
3	101	94	89	85	99	93	88	84	89	85	82	86	83	80	84	81	79	77	77	77	
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	79	76	74	72	72	72	
5	91	83	77	72	89	81	76	72	79	74	71	77	73	70	75	72	69	67	67	67	
6	87	78	72	67	85	77	71	67	75	70	66	73	69	66	71	68	65	63	63	63	
7	83	73	67	63	81	72	67	63	71	66	62	69	65	62	68	64	61	60	60	60	
8	79	69	63	59	77	69	63	59	67	62	59	66	61	58	65	61	58	56	56	56	
9	75	66	60	56	74	65	60	56	64	59	55	63	58	55	62	58	55	53	53	53	
10	72	63	57	53	71	62	57	53	61	56	53	60	55	52	59	55	52	51	51	51	

LAMPS (number of lamps)

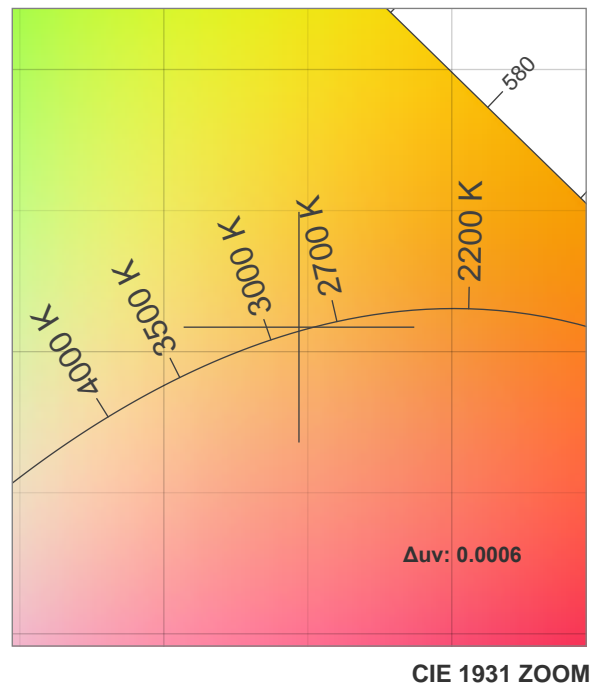
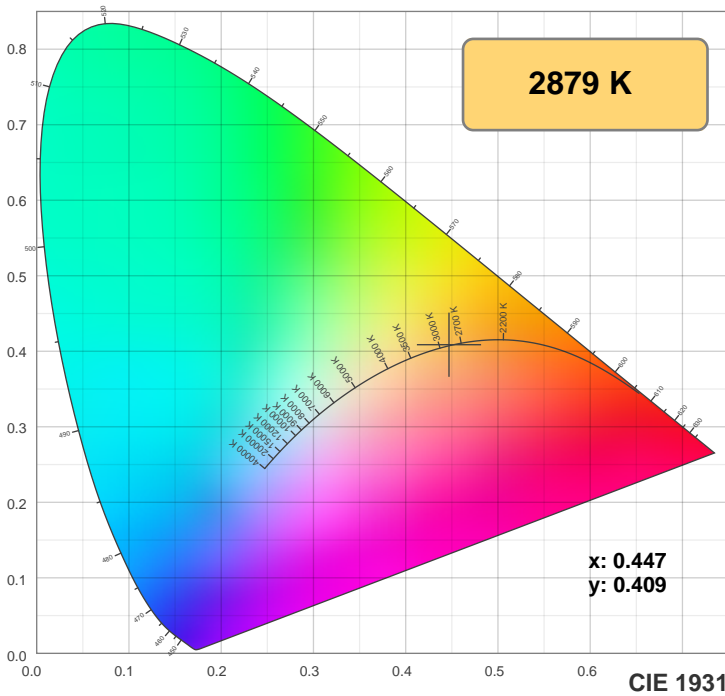
Luminaire budgetary diagram



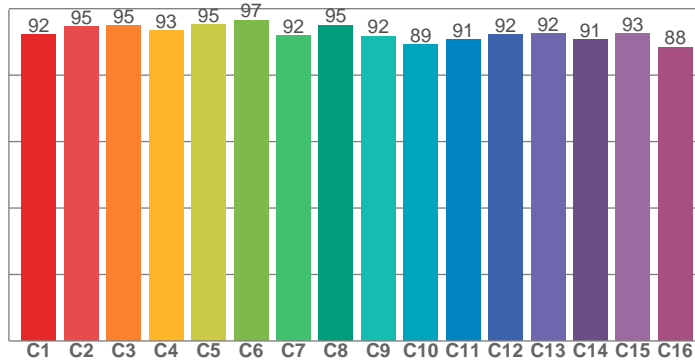
Conditions			
H = Room height			
Hdown	Lamp distance from ceiling	0.00m	
Hwork	Work area height from floor	0.00m	
Ework	Average lux on work area	100lx	
p(%)	Ceiling reflectance	Wall reflectance	Floor reflectance
-----	70	50	30
—————	50	30	20

Color details

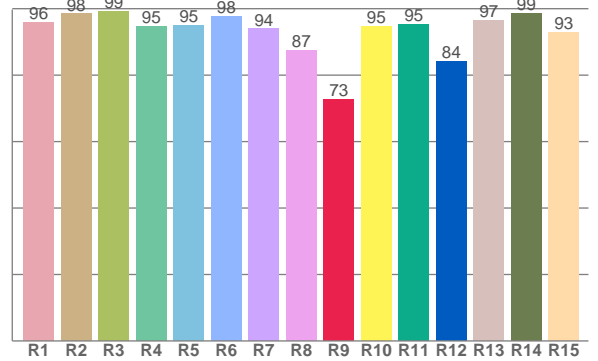
Photometric Testing Report



TM30: 92.6



CRI: 95.3 (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
95.8	98.4	99.1	94.6	95.1	97.6	93.9	87.5	72.6	94.6	95.2	84.2	96.6	98.6	92.7

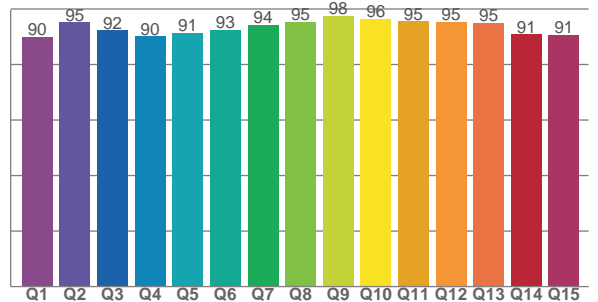
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.2	94.7	95.0	93.3	95.2	96.6	91.9	95.1	91.8	89.1	90.6	92.2	92.5	90.6	92.5	88.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90.0	95.1	92.3	90.1	91.3	92.5	94.3	95.4	97.5	96.3	95.5	95.2	94.9	90.8	90.8

CQS: 92.9



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
2879 K	95.3	72.6	92.6	97.5	92.9	0.447	0.409	0.255	0.350	0.0006

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	16.5	17.1	16.6	17.4	17.7	16.5	17.1	16.6	17.4	17.7
	3H	16.6	17.3	17.0	17.6	17.9	16.6	17.3	17.0	17.6	17.9
	4H	16.7	17.5	17.2	17.8	18.1	16.7	17.5	17.2	17.8	18.1
	6H	17.0	17.6	17.4	18.0	18.4	17.0	17.6	17.4	18.0	18.4
	8H	17.2	17.8	17.6	18.2	18.6	17.2	17.8	17.6	18.2	18.6
	12H	17.4	18.0	17.8	18.4	18.9	17.4	18.0	17.8	18.4	18.9
4H	2H	16.3	17.0	16.7	17.3	17.6	16.3	17.0	16.7	17.3	17.6
	3H	16.7	17.3	17.1	17.7	18.2	16.7	17.3	17.1	17.7	18.2
	4H	16.9	17.5	17.4	18.0	18.5	16.9	17.5	17.4	18.0	18.5
	6H	17.3	17.9	17.9	18.3	18.7	17.3	17.9	17.9	18.3	18.7
	8H	17.6	18.1	18.1	18.5	18.9	17.6	18.1	18.1	18.5	18.9
	12H	18.0	18.4	18.5	18.8	19.4	18.0	18.4	18.5	18.8	19.4
8H	4H	17.0	17.5	17.6	17.9	18.4	17.0	17.5	17.6	17.9	18.4
	6H	17.6	17.9	18.1	18.4	19.0	17.6	17.9	18.1	18.4	19.0
	8H	18.0	18.3	18.6	18.9	19.6	18.0	18.3	18.6	18.9	19.6
	12H	18.6	18.9	19.3	19.4	20.1	18.6	18.9	19.3	19.4	20.1
12H	4H	17.0	17.4	17.5	17.9	18.4	17.0	17.4	17.5	17.9	18.4
	6H	17.7	18.0	18.3	18.5	19.2	17.7	18.0	18.3	18.5	19.2
	8H	18.2	18.4	18.8	19.0	19.6	18.2	18.4	18.8	19.0	19.6
Variation of the observer position for the luminaire distance S											
S = 1.0H		1.3 / -0.9					1.3 / -0.9				
S = 1.5H		2.9 / -1.2					2.9 / -1.2				
S = 2.0H		4.3 / -1.4					4.3 / -1.4				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 630 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.