

## Light efficiency:

62 Lumen/Watt

## Color temperature:

2925 K

## Light quality:

CRI:92.8, R<sub>g</sub>:91.3, R<sub>f</sub>:101.5

P: 2 / V: - / F: 2

Output: 733 lm

Peak: 1756 cd

Power: 11.8 W

Voltage: 121 V

Current: 0.106 A

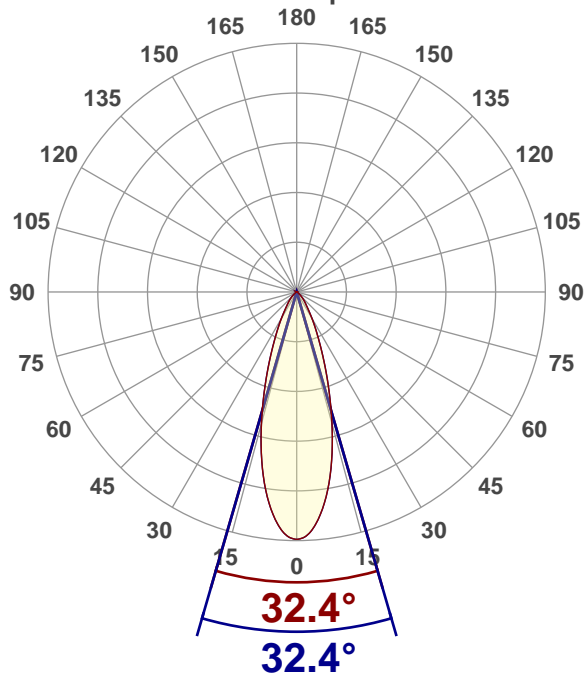
PF: 0.93

THD: 23.24 %



## Angular Distribution

0° and 90° plane



Product name:

RA4-12RG-DTW90WH

Test Date:

2021-10-22

Beam Angle (50% of the brightness of the centre):

32.4°

Field Angle (10% of the brightness of the centre):

63.9°

Cut Off Angle (2.5% of the brightness of the centre):

93°

## Beam Details

\*measured at centre of beam

Mounting Height (feet)/(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	1181 lx	110 fc	2.3 ft / 0.7 m
8 ft / 2.4 m	295 lx	27 fc	4.6 ft / 1.4 m
12 ft / 3.7 m	131 lx	12 fc	7 ft / 2.1 m
16 ft / 4.9 m	74 lx	7 fc	9.3 ft / 2.8 m
20 ft / 6.1 m	47 lx	4 fc	11.6 ft / 3.5 m

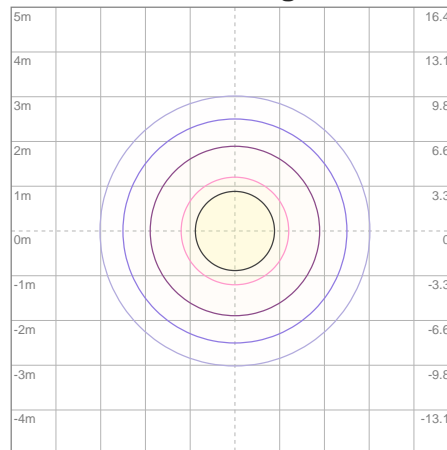
Beam center

# Photometric Testing Report

## Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	583	79.54%
0-40	666	90.86%
0-60	720	98.23%
60-90	12.6	1.72%
70-100	7.08	0.97%
90-120	0.286	0.04%
0-90	733	100.00%
90-180	0.286	0.04%
0-180	733	100.00%

## ISO Lux Diagram



Mounting height: 3.05 meters (10 feet)

Lux at center:	189 lx
3%	5.67 lx
5%	9.45 lx
10%	18.90 lx
30%	56.70 lx
50%	94.50 lx

### Conditions:

Number of planes: 8

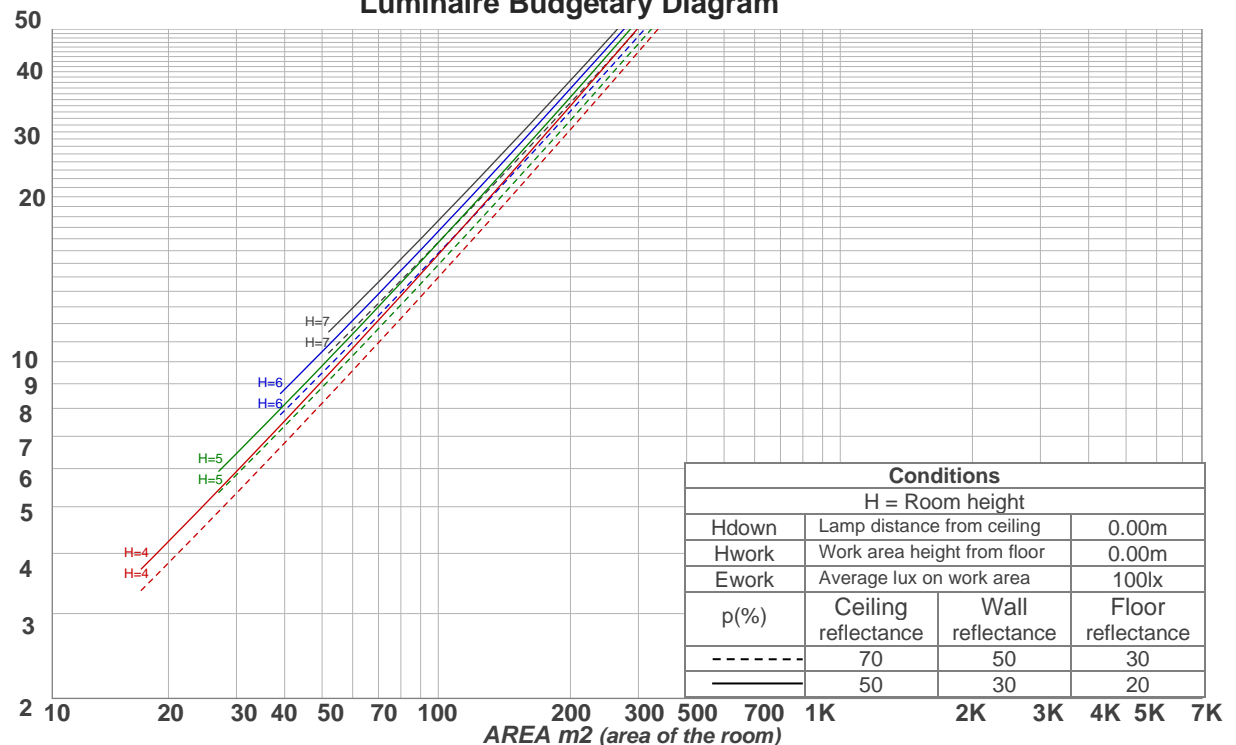
Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

## 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94	96	94	92	94	92	90	88
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	84	98	91	87	83	89	85	82	87	84	81	85	83	80	79
5	95	88	82	78	94	87	82	78	85	81	77	83	80	77	82	79	76	75
6	91	83	78	74	90	82	77	74	81	76	73	80	76	73	78	75	72	71
7	87	79	74	70	86	79	73	70	77	73	69	76	72	69	75	72	69	67
8	84	76	70	67	83	75	70	66	74	69	66	73	69	66	72	68	66	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	61	68	64	60	67	63	60	67	63	60	59

LAMPS (number of lamps)

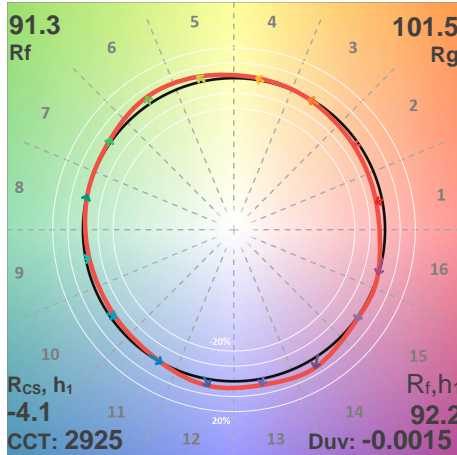
## Luminaire Budgetary Diagram



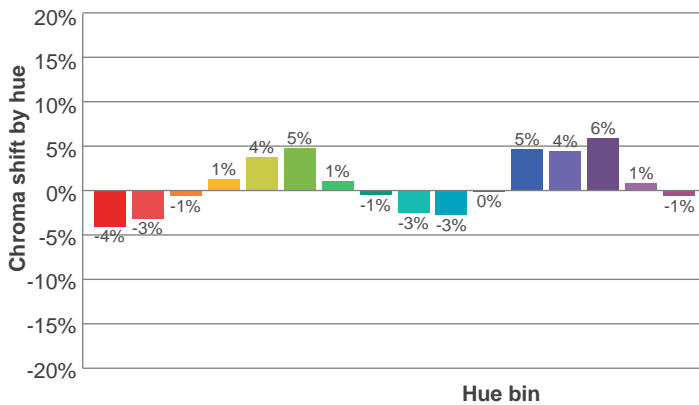
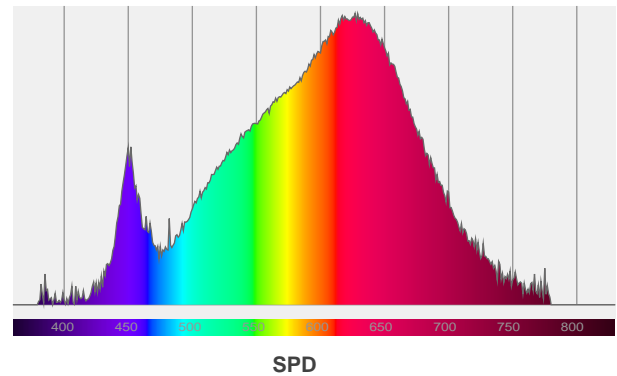
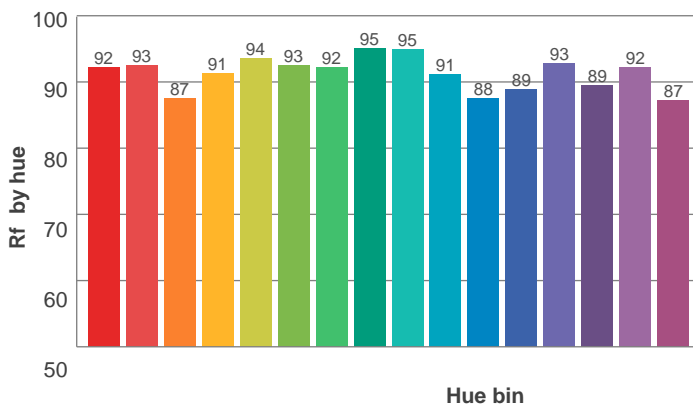
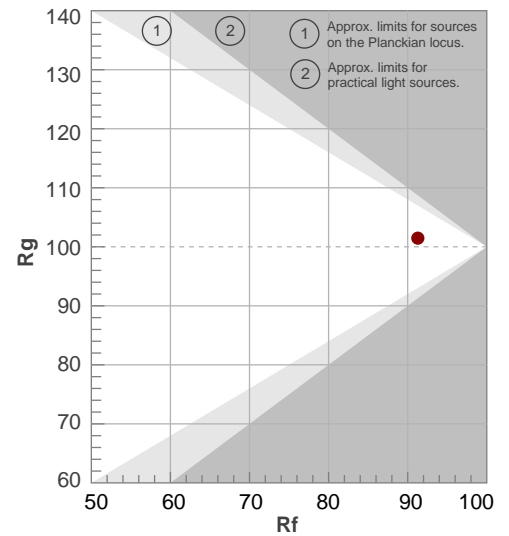
## Photometric Testing Report

ANSI/IES TM-30-18

P: 2 / V: - / F: 2



Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	92	-4%	-1%
2	93	-3%	3%
3	87	-1%	7%
4	91	1%	5%
5	94	4%	4%
6	93	5%	-1%
7	92	1%	-5%
8	95	-1%	-3%
9	95	-3%	0%
10	91	-3%	5%
11	88	0%	9%
12	89	5%	4%
13	93	4%	-2%
14	89	6%	-6%
15	92	1%	-5%
16	87	-1%	-10%



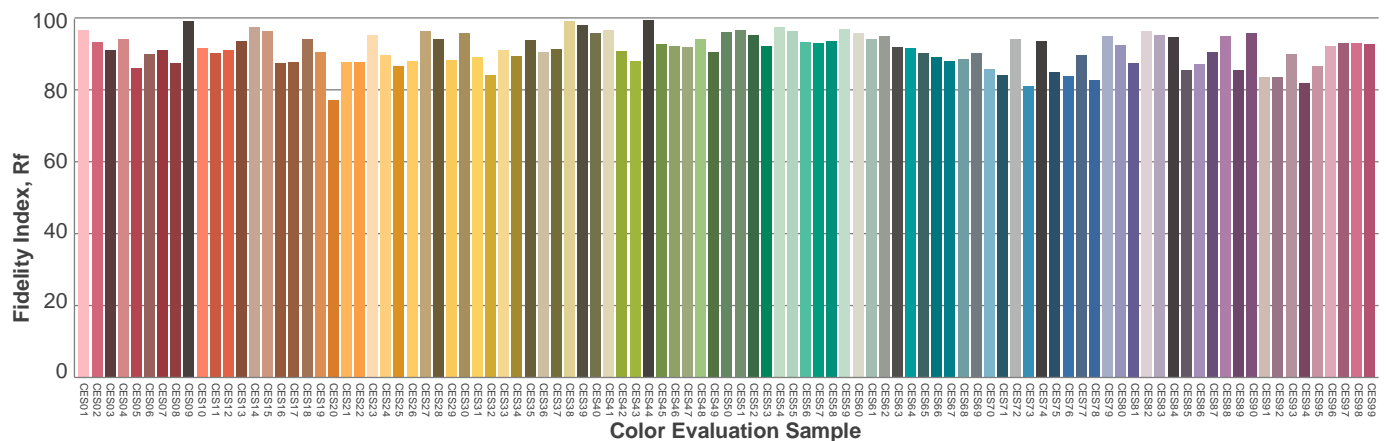
Red: 40.3%, Power=8.6mW

Blue: 7.4%, Power=3.1mW

Green: 23.3%, Power=8.7mW

UVA: 0.3%, Power=0.0mW

Dominant Wavelength: 584nm

1<sup>st</sup> Peak Wavelength: 627nm2<sup>nd</sup> Peak Wavelength: 452nm

### 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	16.2	16.7	16.3	17.0	17.1	16.2	16.7	16.3	17.0	17.1
	3H	16.1	16.8	16.5	17.0	17.2	16.1	16.8	16.5	17.0	17.2
	4H	16.2	16.9	16.6	17.1	17.3	16.2	16.9	16.6	17.1	17.3
	6H	16.4	17.0	16.7	17.3	17.6	16.4	17.0	16.7	17.3	17.6
	8H	16.5	17.1	16.8	17.4	17.8	16.5	17.1	16.8	17.4	17.8
	12H	16.7	17.2	17.0	17.5	18.0	16.7	17.2	17.0	17.5	18.0
4H	2H	15.9	16.6	16.3	16.8	17.1	15.9	16.6	16.3	16.8	17.1
	3H	16.1	16.7	16.5	17.0	17.4	16.1	16.7	16.5	17.0	17.4
	4H	16.2	16.7	16.7	17.2	17.7	16.2	16.7	16.7	17.2	17.7
	6H	16.5	17.1	17.0	17.4	17.8	16.5	17.1	17.0	17.4	17.8
	8H	16.7	17.2	17.3	17.6	17.9	16.7	17.2	17.3	17.6	17.9
	12H	17.0	17.4	17.5	17.8	18.3	17.0	17.4	17.5	17.8	18.3
8H	4H	16.3	16.8	16.8	17.1	17.5	16.3	16.8	16.8	17.1	17.5
	6H	16.7	17.1	17.2	17.5	18.0	16.7	17.1	17.2	17.5	18.0
	8H	17.1	17.4	17.6	17.9	18.5	17.1	17.4	17.6	17.9	18.5
	12H	17.5	17.8	18.1	18.3	18.9	17.5	17.8	18.1	18.3	18.9
12H	4H	16.2	16.6	16.7	17.0	17.5	16.2	16.6	16.7	17.0	17.5
	6H	16.8	17.1	17.3	17.6	18.2	16.8	17.1	17.3	17.6	18.2
	8H	17.2	17.4	17.8	17.9	18.5	17.2	17.4	17.8	17.9	18.5
Variation of the observer position for the luminaire distance S											
S = 1.0H		1.8 / -1.5					1.8 / -1.5				
S = 1.5H		3.7 / -2.0					3.7 / -2.0				
S = 2.0H		5.3 / -2.2					5.3 / -2.2				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 733 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.