

## Light efficiency:

74 Lumen/Watt

## Color temperature:

2986 K

## Light quality:

CRI:96.1, R<sub>g</sub>:93.8, R<sub>f</sub>:99.7

P: 2 / V: - / F: 2

Output: 847 lm

Peak: 1322 cd

Power: 11.5 W

Voltage: 121 V

Current: 0.102 A

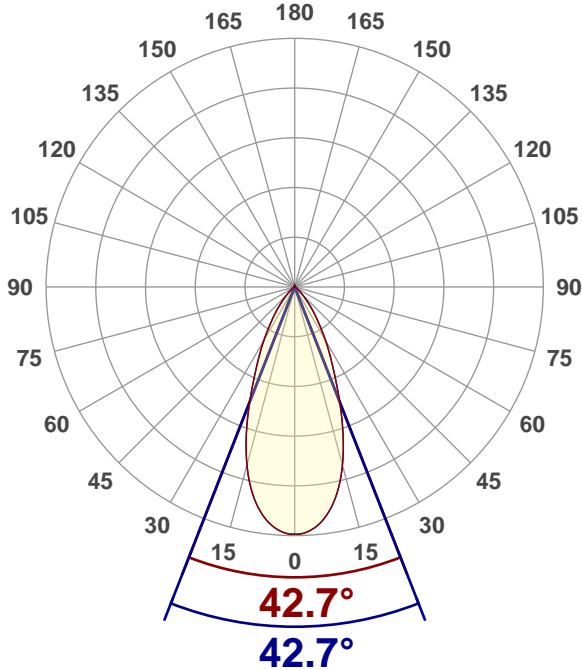
PF: 0.93

THD: 37.36 %



## Angular Distribution

0° and 90° plane



Product name:

RA35x-12RG-90WH - 3000K

Test Date:

2021-11-01

Beam Angle (50% of the brightness of the centre):  
42.7°Field Angle (10% of the brightness of the centre):  
78°Cut Off Angle (2.5% of the brightness of the centre):  
98.9°

## Beam Details

\*measured at centre of beam

Mounting Height (feet)/(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	890 lx	83 fc	3.1 ft / 1 m
8 ft / 2.4 m	222 lx	21 fc	6.3 ft / 1.9 m
12 ft / 3.7 m	99 lx	9 fc	9.4 ft / 2.9 m
16 ft / 4.9 m	56 lx	5 fc	12.5 ft / 3.8 m
20 ft / 6.1 m	36 lx	3 fc	15.7 ft / 4.8 m

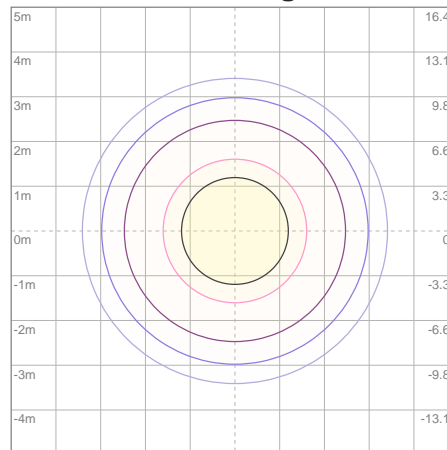
Beam center

# Photometric Testing Report

## Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	618	72.96%
0-40	747	88.19%
0-60	813	95.99%
60-90	17.7	2.09%
70-100	11.8	1.39%
90-120	8.21	0.97%
0-90	830	97.99%
90-180	16.4	1.94%
0-180	847	100.00%

## ISO Lux Diagram



Lux at center:	142 lx
3%	4.26 lx
5%	7.10 lx
10%	14.20 lx
30%	42.60 lx
50%	71.00 lx

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

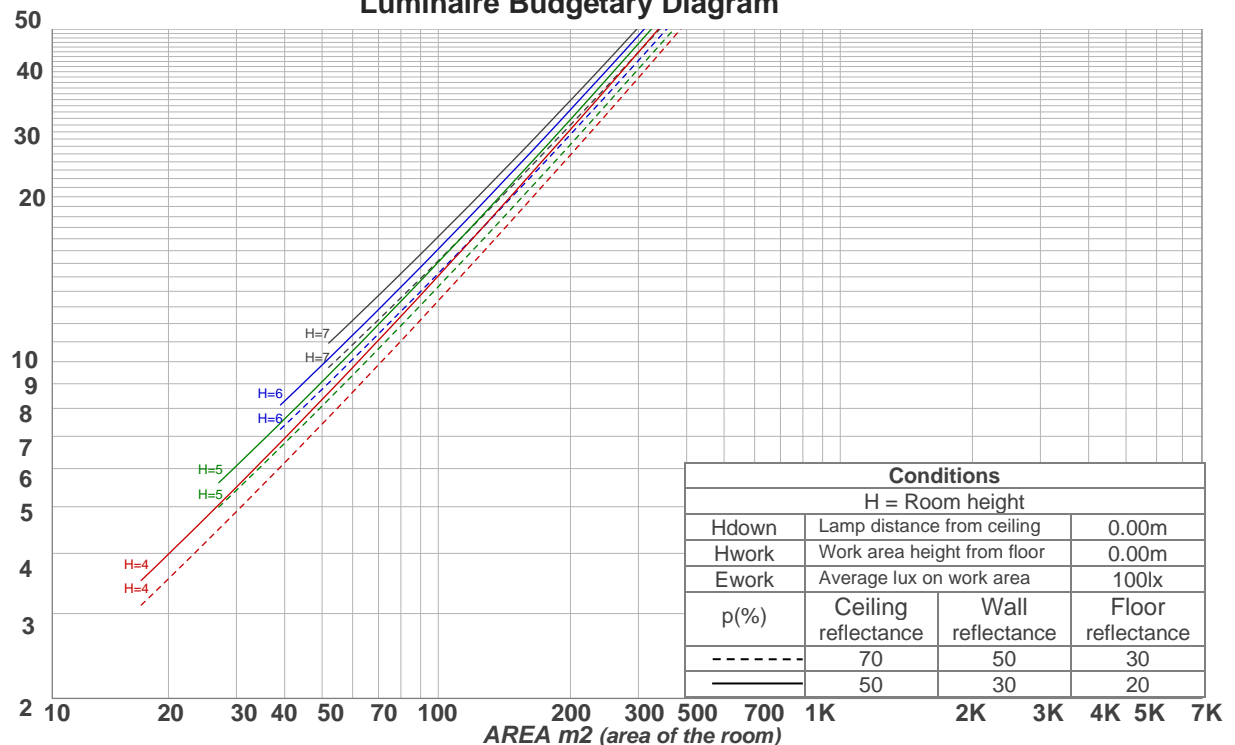
Mounting height: 3.05 meters (10 feet)

## 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	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	110	110	110	105	105	105	100	100	100	98
1	113	110	108	105	110	108	105	103	103	102	100	99	98	97	96	94	93	91
2	107	102	98	95	105	101	97	94	97	94	91	94	91	89	91	89	87	85
3	102	96	91	87	100	94	90	86	91	87	84	89	85	83	86	84	81	80
4	97	90	84	80	95	88	83	80	86	82	78	84	80	77	82	79	76	75
5	92	84	79	74	91	83	78	74	81	77	73	79	75	72	78	74	72	70
6	88	79	74	70	87	79	73	69	77	72	69	75	71	68	74	70	67	66
7	84	75	69	65	83	74	69	65	73	68	65	72	67	64	70	67	64	62
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56
10	74	64	59	55	73	64	59	55	63	58	55	62	58	54	61	57	54	53

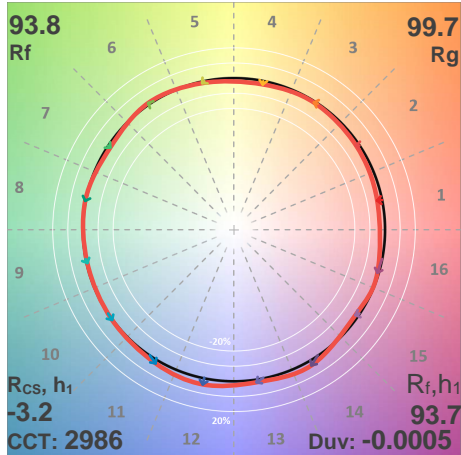
LAMPS (number of lamps)

## Luminaire Budgetary Diagram

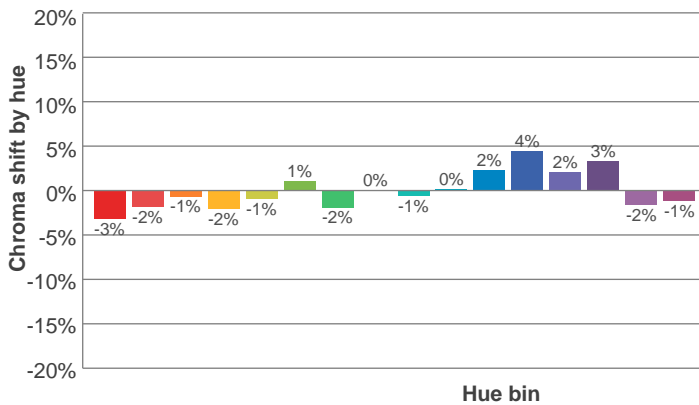
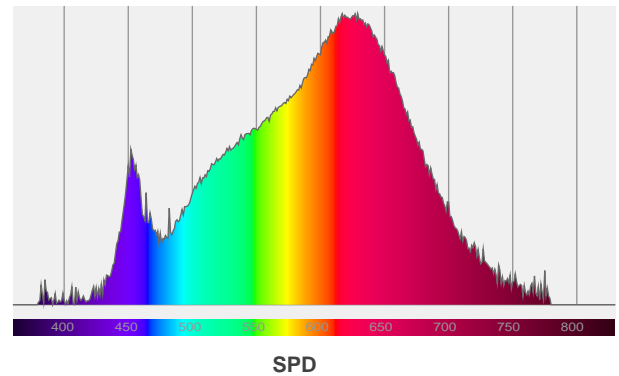
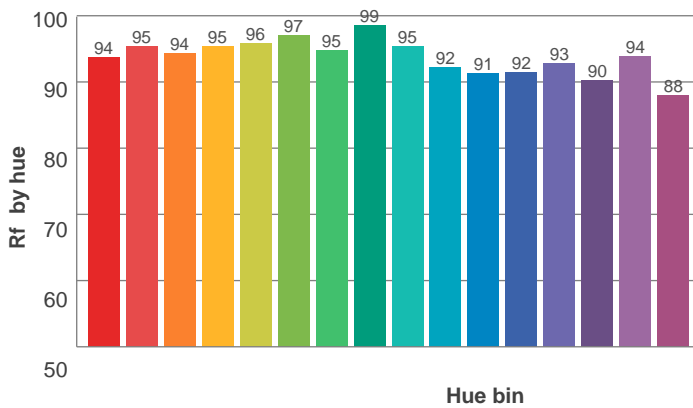
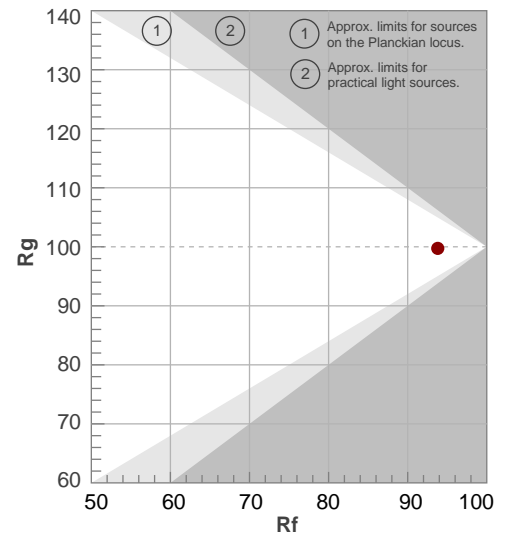


ANSI/IES TM-30-18

P: 2 / V: - / F: 2



Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	94	-3%	0%
2	95	-2%	1%
3	94	-1%	3%
4	95	-2%	0%
5	96	-1%	2%
6	97	1%	1%
7	95	-2%	0%
8	99	0%	1%
9	95	-1%	3%
10	92	0%	5%
11	91	2%	6%
12	92	4%	0%
13	93	2%	-5%
14	90	3%	-7%
15	94	-2%	-2%
16	88	-1%	-9%



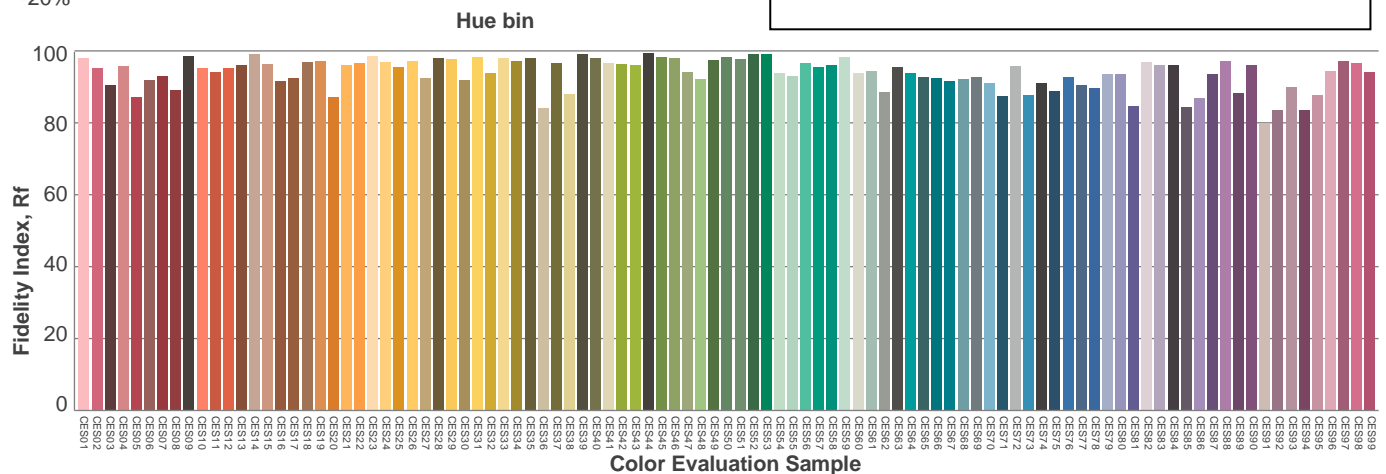
Red: 39.2%, Power=9.3mW

Blue: 8.7%, Power=4.5mW

Green: 24.1%, Power=10.0mW

UVA: 0.3%, Power=0.0mW

Dominant Wavelength: 584nm

1<sup>st</sup> Peak Wavelength: 629nm2<sup>nd</sup> Peak Wavelength: 617nm

**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	29.1	29.7	29.2	29.9	30.1	29.1	29.7	29.2	29.9	30.1
	3H	28.9	29.6	29.2	29.8	30.0	28.9	29.6	29.2	29.8	30.0
	4H	28.8	29.5	29.2	29.8	30.0	28.8	29.5	29.2	29.8	30.0
	6H	28.9	29.5	29.1	29.7	30.1	28.9	29.5	29.1	29.7	30.1
	8H	28.8	29.4	29.1	29.7	30.1	28.8	29.4	29.1	29.7	30.1
	12H	28.8	29.3	29.1	29.7	30.1	28.8	29.3	29.1	29.7	30.1
4H	2H	28.8	29.5	29.2	29.7	29.9	28.8	29.5	29.2	29.7	29.9
	3H	28.8	29.3	29.1	29.7	30.1	28.8	29.3	29.1	29.7	30.1
	4H	28.7	29.2	29.1	29.6	30.1	28.7	29.2	29.1	29.6	30.1
	6H	28.6	29.2	29.1	29.5	29.9	28.6	29.2	29.1	29.5	29.9
	8H	28.6	29.1	29.1	29.5	29.8	28.6	29.1	29.1	29.5	29.8
	12H	28.6	29.0	29.1	29.4	29.9	28.6	29.0	29.1	29.4	29.9
8H	4H	28.6	29.1	29.1	29.4	29.8	28.6	29.1	29.1	29.4	29.8
	6H	28.6	28.9	29.1	29.4	29.9	28.6	28.9	29.1	29.4	29.9
	8H	28.6	28.9	29.1	29.4	30.0	28.6	28.9	29.1	29.4	30.0
	12H	28.6	28.8	29.2	29.3	29.9	28.6	28.8	29.2	29.3	29.9
12H	4H	28.5	28.9	29.0	29.3	29.8	28.5	28.9	29.0	29.3	29.8
	6H	28.6	28.9	29.1	29.4	30.0	28.6	28.9	29.1	29.4	30.0
	8H	28.6	28.8	29.2	29.3	29.9	28.6	28.8	29.2	29.3	29.9
Variation of the observer position for the luminaire distance S											
S = 1.0H		4.3 / -5.7					4.3 / -5.7				
S = 1.5H		6.9 / -6.6					6.9 / -6.6				
S = 2.0H		8.8 / -7.1					8.8 / -7.1				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 847 lm total luminous flux											