

Light efficiency:

67 Lumen/Watt

Color temperature:

5054 K

Light quality:

CRI:95.5, R_g:93.2, R_f:98.7

P: 2 / V: - / F: 2

Output: 836 lm

Peak: 1388 cd

Power: 12.4 W

Voltage: 121 V

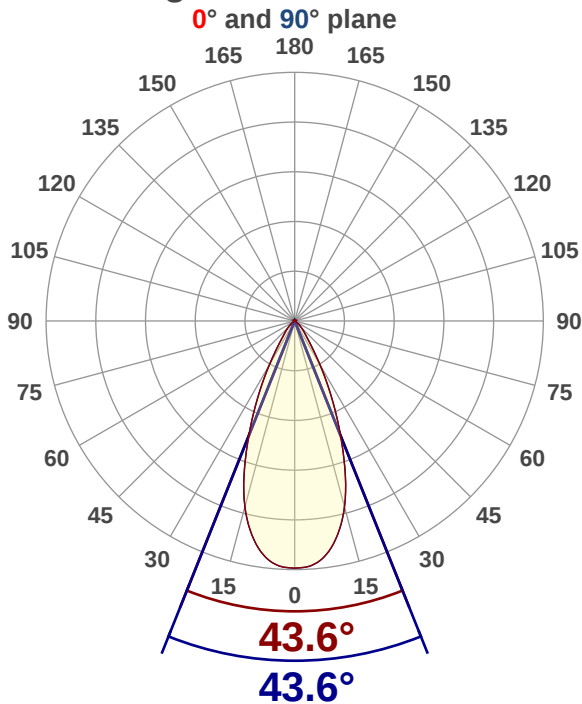
Current: 0.104 A

PF: 0.98

THD: 7.85 %



Angular Distribution



Product name:

RA4-12RG-WZ-90BK 50K

Test Date:

2020-03-11

Beam Angle (50% of the brightness of the centre):
43.6°Field Angle (10% of the brightness of the centre):
70.4°Cut Off Angle (2.5% of the brightness of the centre):
97.2°

Beam Details

*measured at centre of beam

Mounting Height (feet)/(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	934 lx	87 fc	3.2 ft / 1 m
8 ft / 2.4 m	233 lx	22 fc	6.4 ft / 2 m
12 ft / 3.7 m	104 lx	10 fc	9.6 ft / 2.9 m
16 ft / 4.9 m	58 lx	5 fc	12.8 ft / 3.9 m
20 ft / 6.1 m	37 lx	3 fc	16 ft / 4.9 m

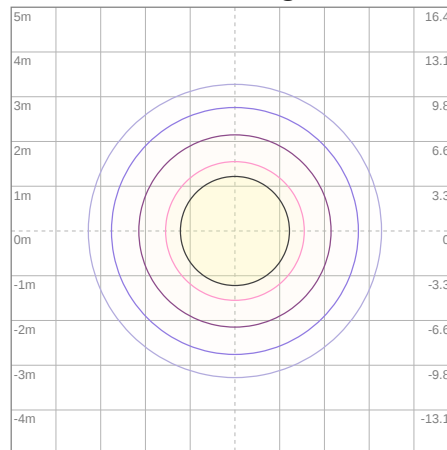
Beam center

Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	657	78.59%
0-40	752	89.95%
0-60	805	96.29%
60-90	10.8	1.29%
70-100	9.58	1.15%
90-120	9.45	1.13%
0-90	815	97.49%
90-180	20.9	2.50%
0-180	836	100.00%

ISO Lux Diagram



Lux at center:	149 lx
3%	4.47 lx
5%	7.45 lx
10%	14.90 lx
30%	44.70 lx
50%	74.50 lx

Conditions:

Number of planes: 8

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

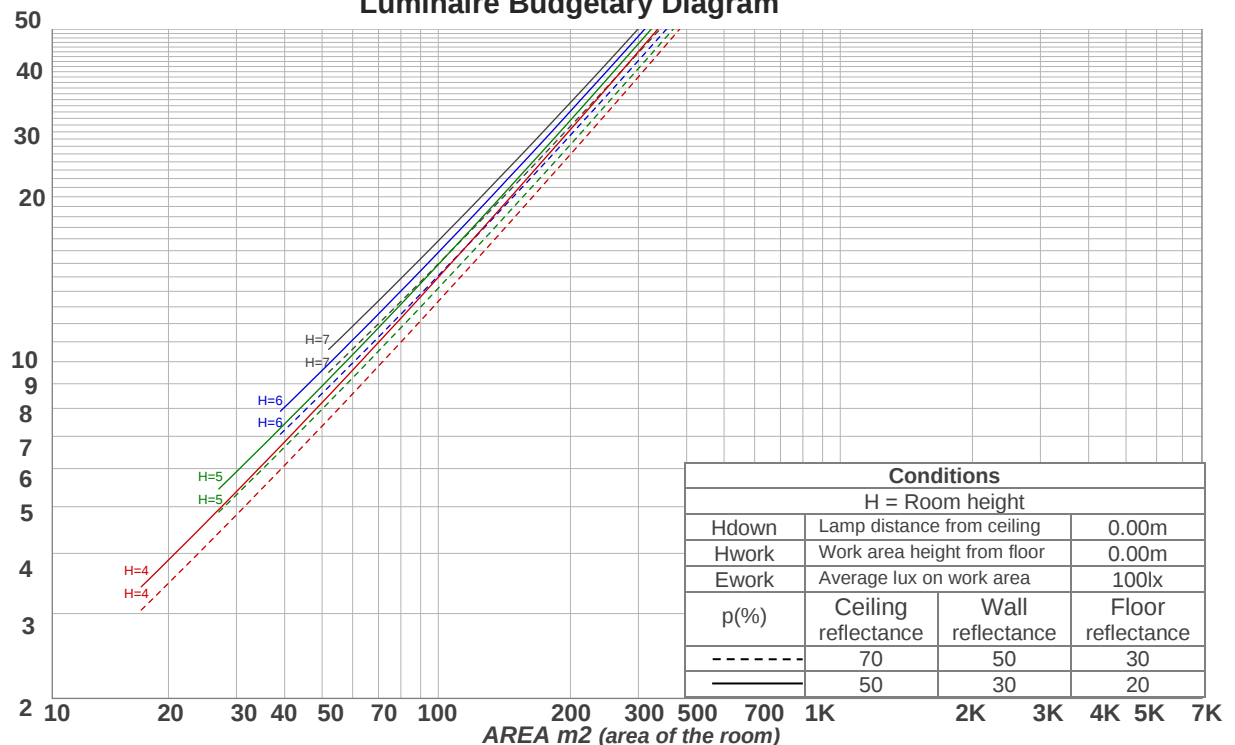
Mounting height: 3.05 meters (10 feet)

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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	113	110	108	106	110	108	106	104	103	102	100	99	98	97	96	94	94	92
2	108	103	99	96	105	101	98	95	98	95	92	94	92	90	91	89	88	86
3	103	97	92	88	101	95	91	87	92	89	86	90	87	84	87	85	83	81
4	98	91	86	82	96	90	85	81	87	83	80	85	82	79	83	80	78	76
5	94	86	80	76	92	85	80	76	83	78	75	81	77	74	79	76	73	72
6	90	81	76	72	88	80	75	71	79	74	71	77	73	70	76	72	69	68
7	86	77	72	68	84	76	71	67	75	70	67	74	69	66	72	69	66	65
8	82	73	68	64	81	73	67	64	71	67	63	70	66	63	69	65	63	61
9	79	70	64	61	78	69	64	61	68	63	60	67	63	60	66	62	60	58
10	76	67	61	58	74	66	61	58	65	61	57	64	60	57	63	60	57	56

LAMPS (number of lamps)

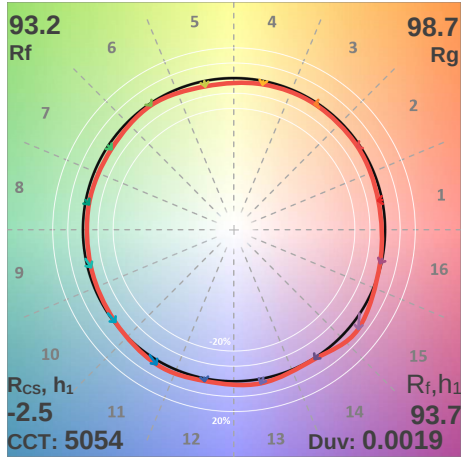
Luminaire Budgetary Diagram



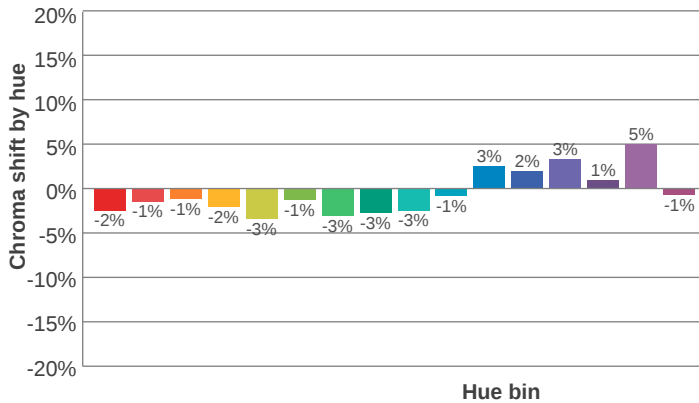
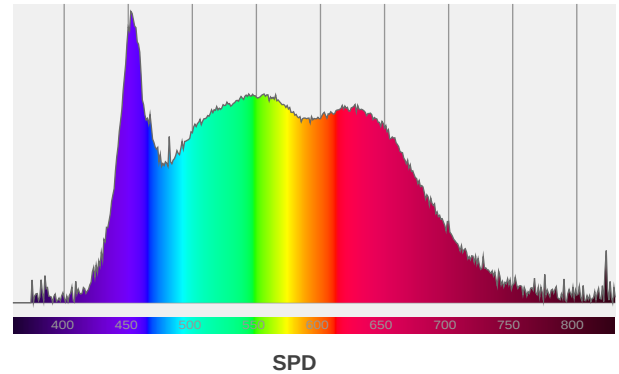
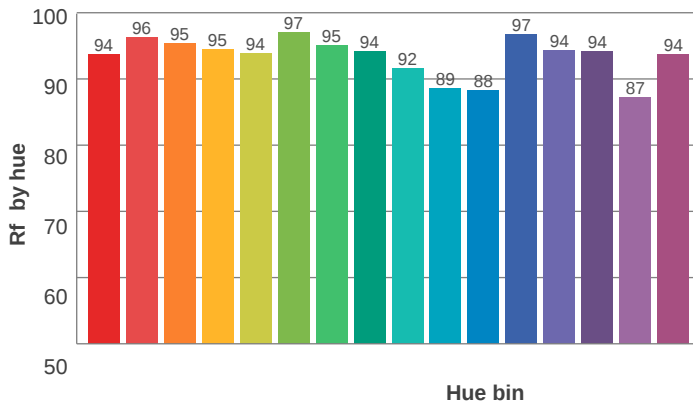
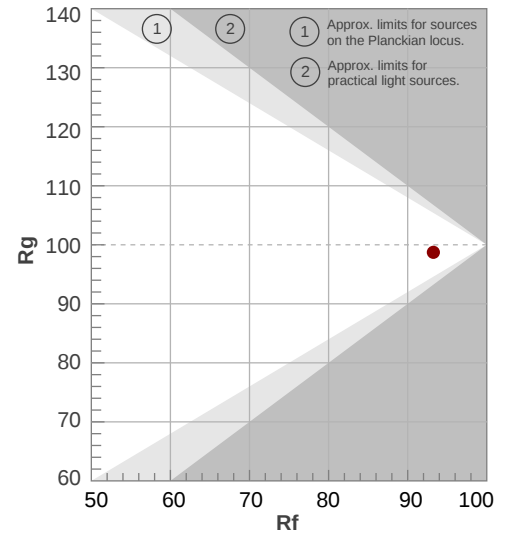
Photometric Testing Report

ANSI/IES TM-30-18

P: 2 / V: - / F: 2



Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	94	-2%	0%
2	96	-1%	0%
3	95	-1%	1%
4	95	-2%	0%
5	94	-3%	0%
6	97	-1%	0%
7	95	-3%	1%
8	94	-3%	2%
9	92	-3%	6%
10	89	-1%	7%
11	88	3%	7%
12	97	2%	1%
13	94	3%	-2%
14	94	1%	-3%
15	87	5%	-9%
16	94	-1%	-3%



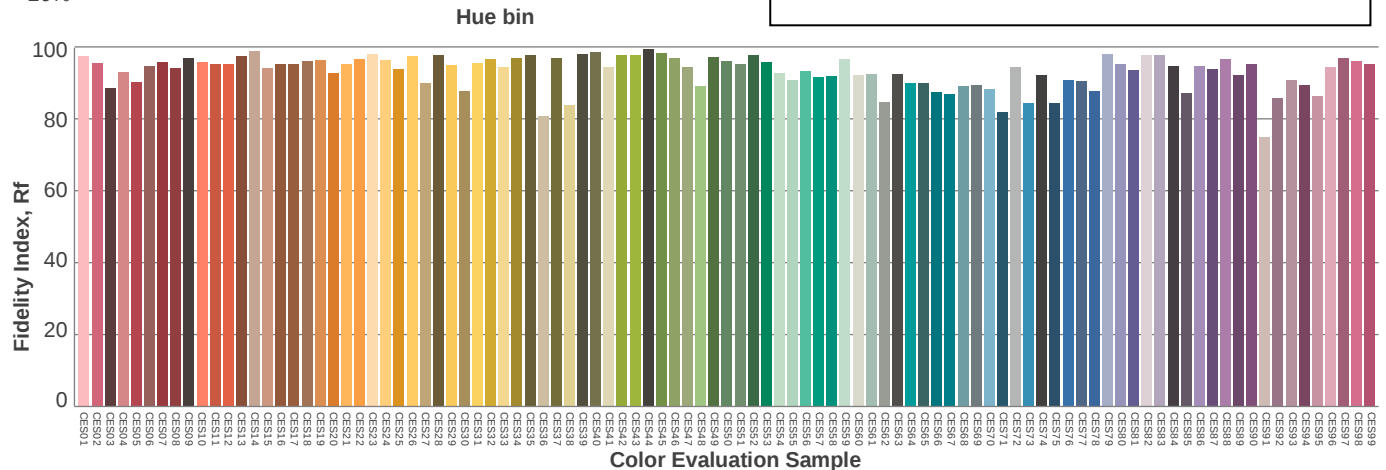
Red: 27.6%, Power=6.9mW

Blue: 16.7%, Power=9.5mW

Green: 29.3%, Power=12.1mW

UVA: 0.4%, Power=1.4mW

Dominant Wavelength: 577nm

1st Peak Wavelength: 452nm2nd Peak Wavelength: 556nm

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	18.4	19.0	18.5	19.2	19.4	18.4	19.0	18.5	19.2	19.4
	3H	18.2	18.9	18.6	19.1	19.4	18.2	18.9	18.6	19.1	19.4
	4H	18.2	18.9	18.6	19.1	19.4	18.2	18.9	18.6	19.1	19.4
	6H	18.3	18.9	18.7	19.2	19.6	18.3	18.9	18.7	19.2	19.6
	8H	18.4	19.0	18.8	19.3	19.7	18.4	19.0	18.8	19.3	19.7
	12H	18.5	19.1	18.9	19.5	19.9	18.5	19.1	18.9	19.5	19.9
4H	2H	18.1	18.7	18.5	19.0	19.3	18.1	18.7	18.5	19.0	19.3
	3H	18.1	18.6	18.5	19.0	19.5	18.1	18.6	18.5	19.0	19.5
	4H	18.1	18.6	18.6	19.1	19.6	18.1	18.6	18.6	19.1	19.6
	6H	18.3	18.8	18.8	19.2	19.6	18.3	18.8	18.8	19.2	19.6
	8H	18.4	18.9	19.0	19.3	19.7	18.4	18.9	19.0	19.3	19.7
	12H	18.7	19.1	19.2	19.5	20.0	18.7	19.1	19.2	19.5	20.0
8H	4H	18.1	18.5	18.6	18.9	19.3	18.1	18.5	18.6	18.9	19.3
	6H	18.4	18.7	18.9	19.2	19.8	18.4	18.7	18.9	19.2	19.8
	8H	18.7	18.9	19.2	19.5	20.2	18.7	18.9	19.2	19.5	20.2
	12H	19.1	19.4	19.8	19.9	20.5	19.1	19.4	19.8	19.9	20.5
12H	4H	18.0	18.4	18.6	18.8	19.3	18.0	18.4	18.6	18.8	19.3
	6H	18.4	18.7	19.0	19.2	19.9	18.4	18.7	19.0	19.2	19.9
	8H	18.8	19.0	19.4	19.5	20.2	18.8	19.0	19.4	19.5	20.2
Variation of the observer position for the luminaire distance S											
S = 1.0H		2.5 / -2.0					2.5 / -2.0				
S = 1.5H		4.7 / -2.3					4.7 / -2.3				
S = 2.0H		6.4 / -2.6					6.4 / -2.6				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 836 lm total luminous flux											