

Light efficiency:

106 Lumen/Watt

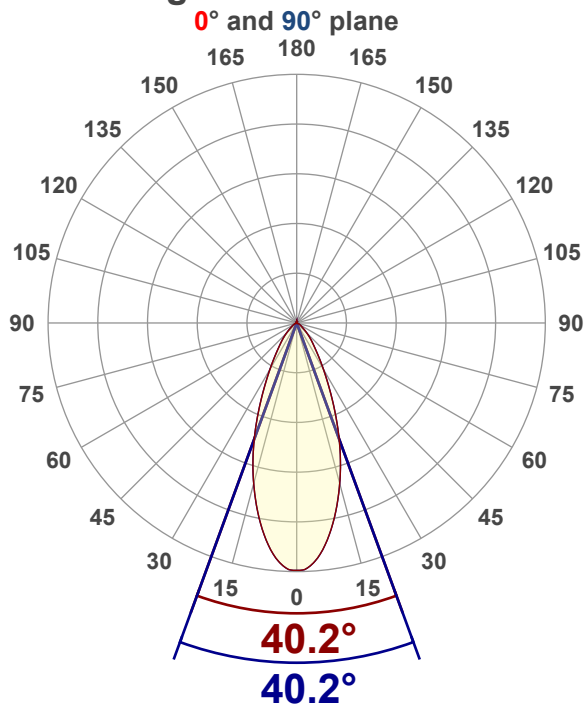
Color temperature:

5144 K

Light quality:

CRI:92.9, R_g:91.8, R_f:99.4**P: 2 / V: - / F: 2****Output: 730 lm****Peak: 1216 cd****Power: 6.9 W****Voltage: 120 V****Current: 0.061 A****PF: 0.95****THD: 19.72 %**

Angular Distribution



Product name:

RA2-7F-90WH - 5000K

Test Date:

12/2/2025

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

40.2°

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

78°

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

107.9°

Beam Details

*measured at centre of beam

Mounting Height (feet)\(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	818 lx	76 fc	2.9 ft / 0.9 m
8 ft / 2.4 m	205 lx	19 fc	5.9 ft / 1.8 m
12 ft / 3.7 m	91 lx	8 fc	8.8 ft / 2.7 m
16 ft / 4.9 m	51 lx	5 fc	11.7 ft / 3.6 m
20 ft / 6.1 m	33 lx	3 fc	14.6 ft / 4.5 m

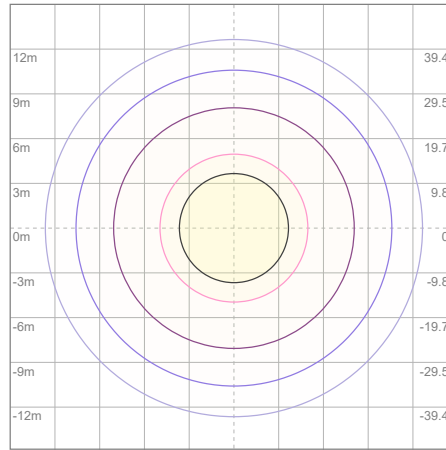
Beam center

Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	521	71.37%
0-40	628	86.03%
0-60	711	97.40%
60-90	19.0	2.60%
70-100	6.28	0.86%
90-120	0.213	0.03%
0-90	730	100.00%
90-180	0.544	0.07%
0-180	730	100.00%

ISO Lux Diagram



Lux at center:	131 lx
3%	3.93 lx
5%	6.55 lx
10%	13.10 lx
30%	39.30 lx
50%	65.50 lx

Conditions:

Number of planes: 8

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

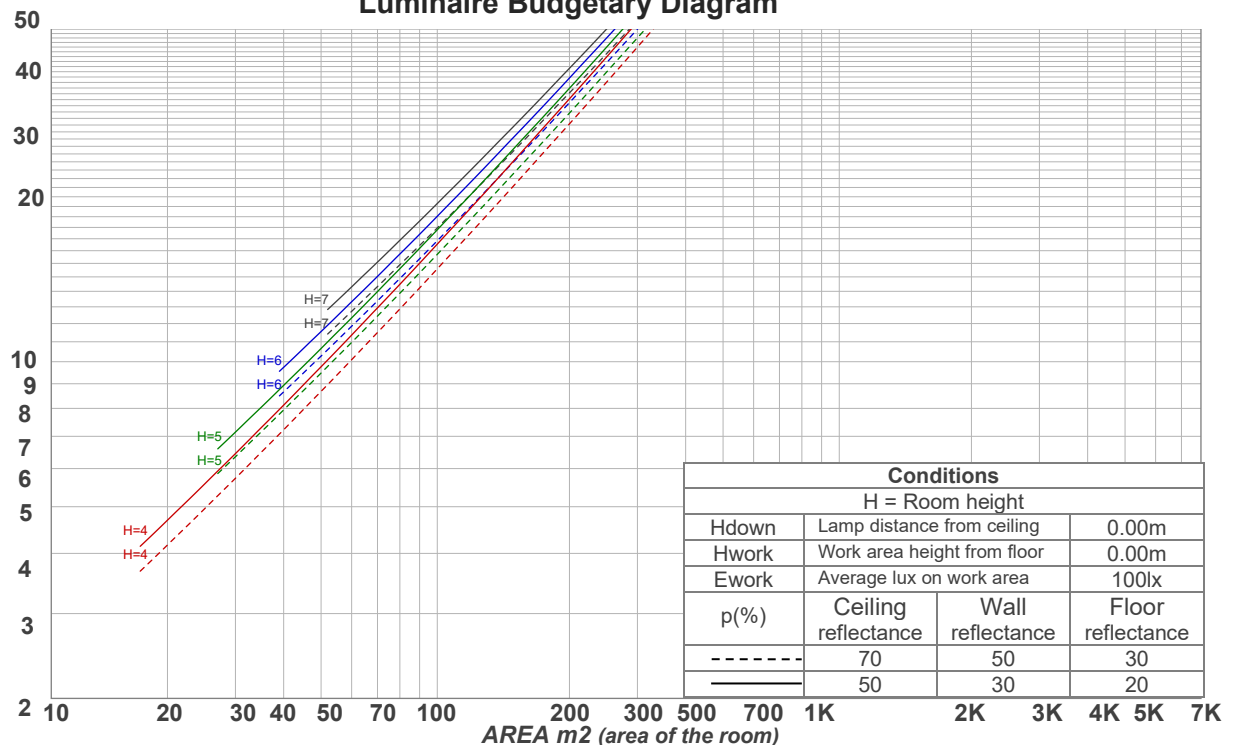
Mounting height: 3.05 meters (10 feet)

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	108	103	98	95	105	101	97	94	98	94	92	95	92	90	92	90	88	86
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62
8	80	70	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	65	60	57	64	60	56	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

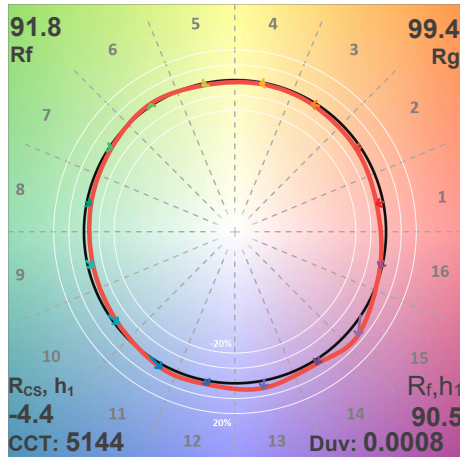
LAMPS (number of lamps)

Luminaire Budgetary Diagram

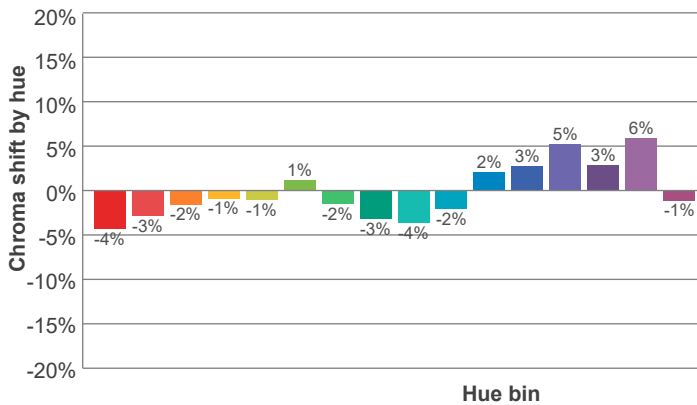
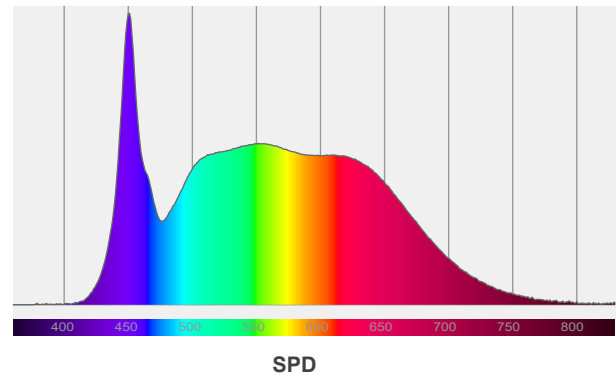
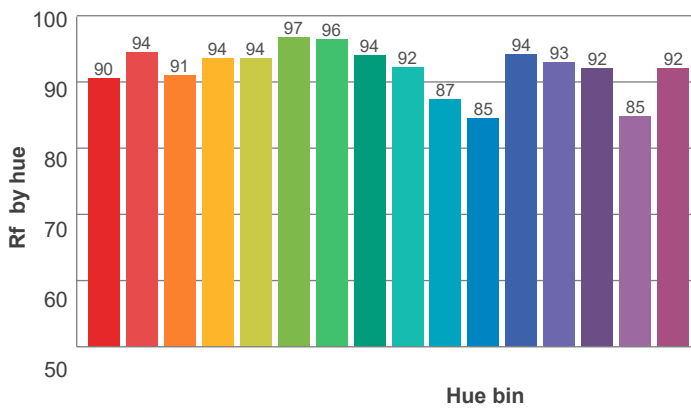
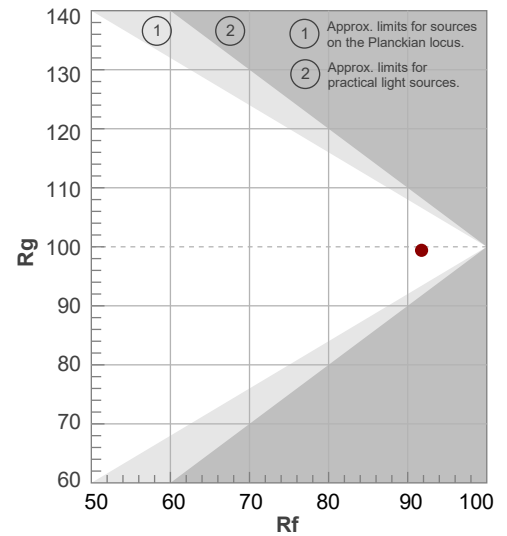


ANSI/IES TM-30-18

P: 2 / V: - / F: 2



Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	90	-4%	-1%
2	94	-3%	1%
3	91	-2%	4%
4	94	-1%	2%
5	94	-1%	2%
6	97	1%	0%
7	96	-2%	-1%
8	94	-3%	1%
9	92	-4%	5%
10	87	-2%	8%
11	85	2%	9%
12	94	3%	3%
13	93	5%	-2%
14	92	3%	-4%
15	85	6%	-12%
16	92	-1%	-5%



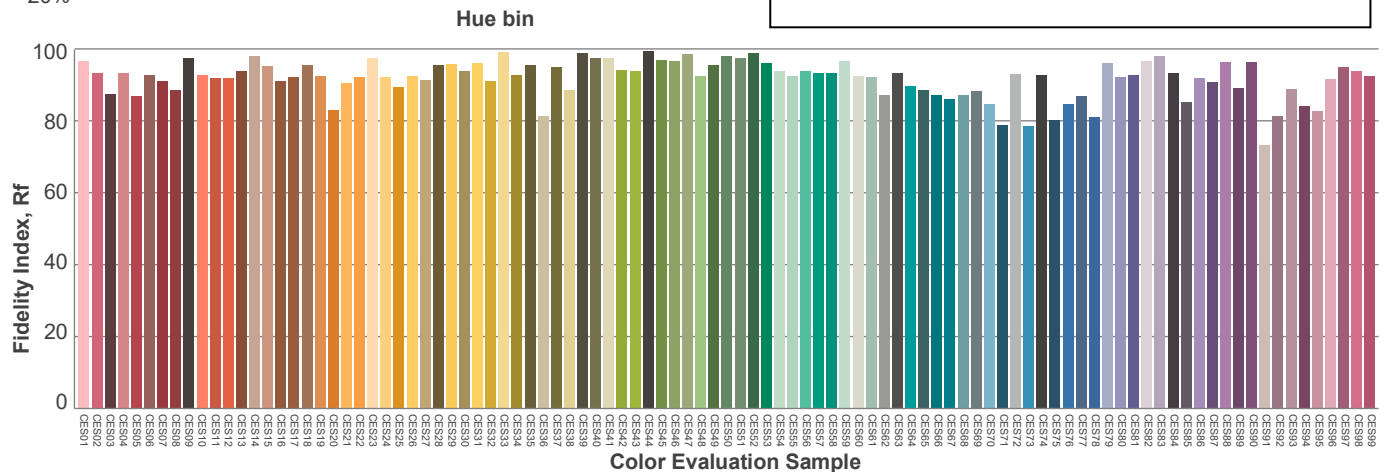
Red: 25.4%, Power=4.9mW

Blue: 16.4%, Power=6.8mW

Green: 30.7%, Power=10.5mW

UVA: 0%, Power=0.0mW

Dominant Wavelength: 577nm

1st Peak Wavelength: 451nm2nd 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	22.8	23.4	22.9	23.7	23.9	22.8	23.4	22.9	23.7	23.9
	3H	22.8	23.6	23.2	23.8	24.0	22.8	23.6	23.2	23.8	24.0
	4H	22.8	23.6	23.2	23.8	24.0	22.8	23.6	23.2	23.8	24.0
	6H	22.9	23.5	23.2	23.8	24.2	22.9	23.5	23.2	23.8	24.2
	8H	22.9	23.5	23.2	23.8	24.2	22.9	23.5	23.2	23.8	24.2
	12H	22.9	23.5	23.2	23.8	24.2	22.9	23.5	23.2	23.8	24.2
4H	2H	22.7	23.4	23.1	23.7	23.9	22.7	23.4	23.1	23.7	23.9
	3H	23.0	23.5	23.3	23.9	24.3	23.0	23.5	23.3	23.9	24.3
	4H	23.0	23.5	23.4	23.9	24.4	23.0	23.5	23.4	23.9	24.4
	6H	23.0	23.6	23.5	23.9	24.3	23.0	23.6	23.5	23.9	24.3
	8H	23.0	23.6	23.5	23.9	24.3	23.0	23.6	23.5	23.9	24.3
	12H	23.0	23.4	23.5	23.8	24.3	23.0	23.4	23.5	23.8	24.3
8H	4H	22.9	23.4	23.4	23.8	24.2	22.9	23.4	23.4	23.8	24.2
	6H	23.1	23.4	23.6	23.9	24.4	23.1	23.4	23.6	23.9	24.4
	8H	23.1	23.4	23.6	23.9	24.6	23.1	23.4	23.6	23.9	24.6
	12H	23.1	23.4	23.7	23.9	24.5	23.1	23.4	23.7	23.9	24.5
12H	4H	22.9	23.3	23.4	23.7	24.2	22.9	23.3	23.4	23.7	24.2
	6H	23.1	23.4	23.6	23.9	24.5	23.1	23.4	23.6	23.9	24.5
	8H	23.1	23.3	23.7	23.9	24.5	23.1	23.3	23.7	23.9	24.5
Variation of the observer position for the luminaire distance S											
S = 1.0H		1.9 / -1.9					1.9 / -1.9				
S = 1.5H		3.8 / -2.7					3.8 / -2.7				
S = 2.0H		5.5 / -4.0					5.5 / -4.0				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 730 lm total luminous flux											