

## Light efficiency:

87 Lumen/Watt

## Light quality:

CRI: 91.9

## Color temperature:

3409 K

Output: 3839 lm

Peak: 7056 cd

Power: 44.3 W

Voltage: 119 V

Current: 0.376 A

PF: 0.99

THD: 11.52 %



Product name:

ATF8040-35-90BK WIDE

Driver Used:

TRACK FOCUS

Test Date:

9/28/2017

Beam Angle:

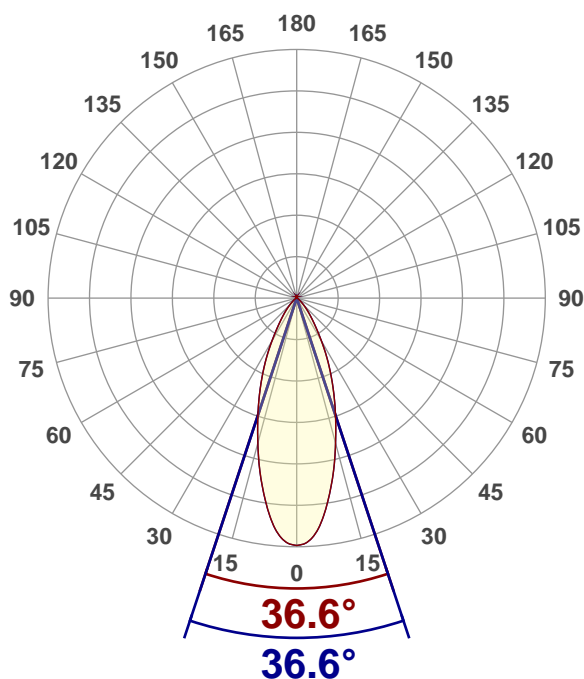
36.6°

Field Angle:

73.4°

Cut Off Angle:

98.6°



## Beam details

\*measured at center of beam

Mounting Height (feet)\(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	4747 lx	441 fcd	2.6 ft / 0.8 m
8 ft / 2.4 m	1187 lx	110 fcd	5.3 ft / 1.6 m
12 ft / 3.7 m	527 lx	49 fcd	7.9 ft / 2.4 m
16 ft / 4.9 m	297 lx	28 fcd	10.6 ft / 3.2 m
20 ft / 6.1 m	190 lx	18 fcd	13.2 ft / 4 m

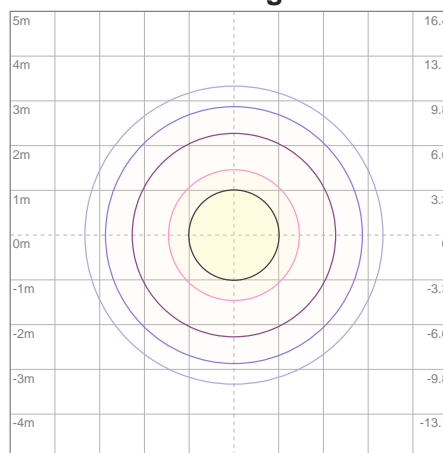
Beam center

# Light planning Photometric Testing Report

## Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	2801	72.96%
0-40	3341	87.03%
0-60	3664	95.44%
60-90	49.1	1.28%
70-100	31.7	0.83%
90-120	30.3	0.79%
0-90	3713	96.72%
90-180	126	3.28%
0-180	3839	100.00%

## ISO lux diagram



Mounting height: 3.05 meters (10 feet)

Lux at center:	759 lx
3%	22.77 lx
5%	37.95 lx
10%	75.90 lx
30%	227.70 lx
50%	379.50 lx

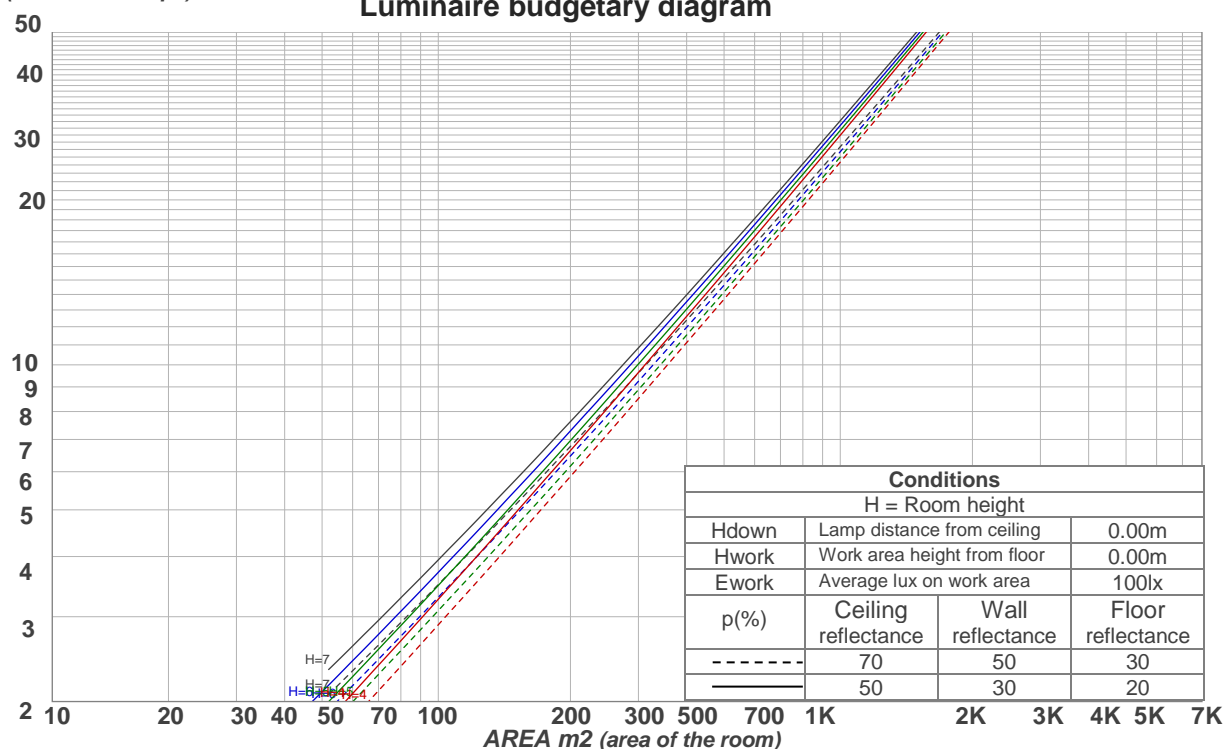
Conditions:  
Number of planes: 8  
Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

## 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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	113	110	107	105	110	107	105	103	103	101	99	99	97	96	95	94	93	91
2	107	102	98	95	105	100	97	94	97	94	91	93	91	89	90	88	86	85
3	102	96	91	87	100	94	90	86	91	87	84	88	85	83	86	83	81	79
4	97	90	84	80	95	88	83	80	86	82	78	84	80	77	81	78	76	74
5	93	84	79	75	91	83	78	74	81	77	73	79	75	72	77	74	71	70
6	88	80	74	70	87	79	73	69	77	72	69	75	71	68	74	70	67	66
7	84	75	70	66	83	75	69	65	73	68	65	72	67	64	70	66	64	62
8	81	71	66	62	79	71	65	62	69	65	61	68	64	61	67	63	60	59
9	77	68	62	59	76	67	62	58	66	61	58	65	61	58	64	60	57	56
10	74	65	59	56	73	64	59	55	63	58	55	62	58	55	61	57	55	53

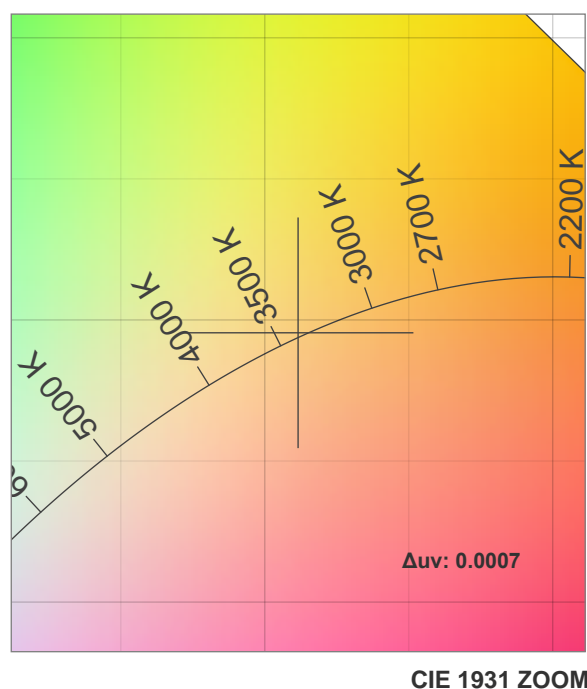
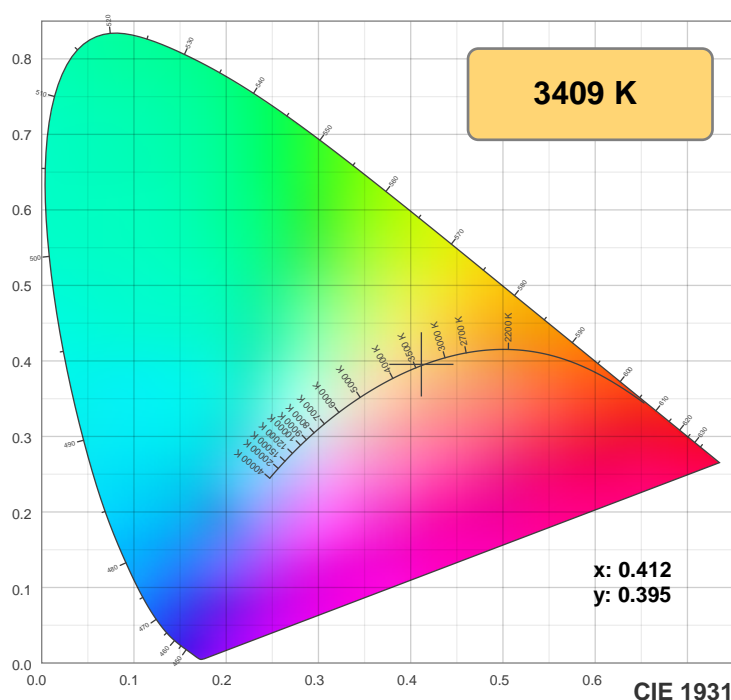
LAMPS (number of lamps)

## Luminaire budgetary diagram

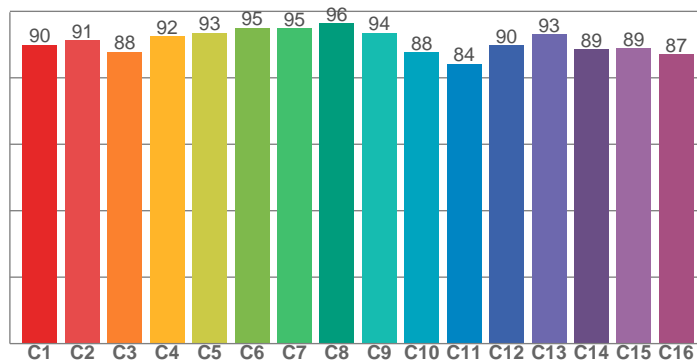


## Color details

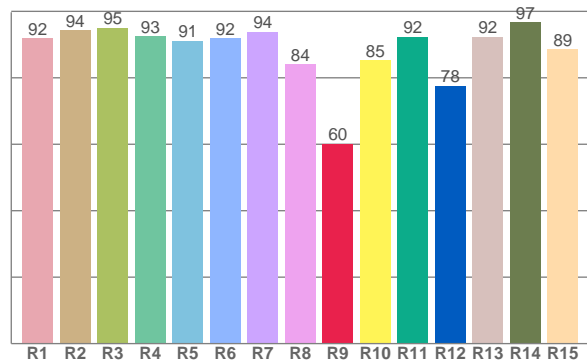
## Photometric Testing Report



TM30: 90.7



CRI: 91.9 (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
91.9	94.2	95.1	92.6	91.2	92.0	93.9	84.0	60.1	85.3	92.4	77.6	92.4	96.7	88.7

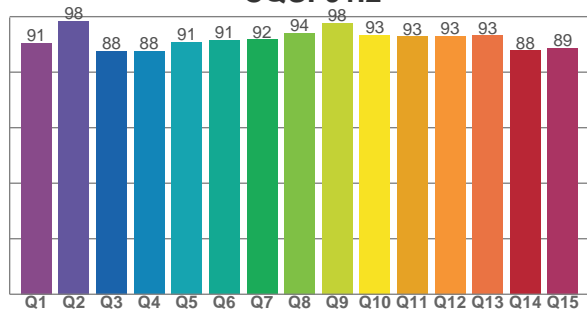
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.9	91.3	87.9	92.4	93.4	95.0	94.9	96.3	93.6	87.6	84.2	89.7	93.1	88.6	88.8	87.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90.5	98.4	87.5	87.5	90.9	91.5	91.7	94.0	97.8	93.3	92.8	92.9	93.1	87.8	88.6

CQS: 91.2



## 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
3409 K	91.9	60.1	90.7	99.5	91.2	0.412	0.395	0.238	0.343	0.0007

## UGR Photometric Testing Report

## 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	21.2	22.0	21.5	22.2	22.5	21.2	22.0	21.5	22.2	22.5
	3H	21.2	21.8	21.5	22.1	22.4	21.2	21.8	21.5	22.1	22.4
	4H	21.1	21.7	21.5	22.1	22.4	21.1	21.7	21.5	22.1	22.4
	6H	21.1	21.7	21.5	22.0	22.4	21.1	21.7	21.5	22.0	22.4
	8H	21.1	21.7	21.5	22.0	22.4	21.1	21.7	21.5	22.0	22.4
	12H	21.2	21.7	21.6	22.0	22.4	21.2	21.7	21.6	22.0	22.4
4H	2H	21.1	21.7	21.5	22.0	22.4	21.1	21.7	21.5	22.0	22.4
	3H	21.1	21.6	21.5	21.9	22.3	21.1	21.6	21.5	21.9	22.3
	4H	21.1	21.5	21.5	21.9	22.3	21.1	21.5	21.5	21.9	22.3
	6H	21.1	21.5	21.5	21.9	22.3	21.1	21.5	21.5	21.9	22.3
	8H	21.1	21.5	21.6	21.9	22.4	21.1	21.5	21.6	21.9	22.4
	12H	21.2	21.5	21.7	21.9	22.4	21.2	21.5	21.7	21.9	22.4
8H	4H	21.0	21.3	21.4	21.7	22.2	21.0	21.3	21.4	21.7	22.2
	6H	21.0	21.3	21.5	21.8	22.3	21.0	21.3	21.5	21.8	22.3
	8H	21.1	21.3	21.6	21.8	22.4	21.1	21.3	21.6	21.8	22.4
	12H	21.3	21.5	21.8	22.0	22.5	21.3	21.5	21.8	22.0	22.5
12H	4H	20.9	21.2	21.4	21.7	22.2	20.9	21.2	21.4	21.7	22.2
	6H	21.0	21.2	21.5	21.7	22.3	21.0	21.2	21.5	21.7	22.3
	8H	21.1	21.3	21.7	21.8	22.4	21.1	21.3	21.7	21.8	22.4
Variation of the observer position for the luminaire distance S											
S = 1.0H		+2.9 / -3.1					+2.9 / -3.1				
S = 1.5H		+5.2 / -5.1					+5.2 / -5.1				
S = 2.0H		+7.2 / -6.1					+7.2 / -6.1				
Standard table		BK01					BK01				
Correction summand		3.3					3.3				
Corrected glare indices referring to 3839 lm total luminous flux											