

Light efficiency:

80 Lumen/Watt

Light quality:

CRI: 91.7

Color temperature:

3412 K

Output: 3486 lm

Peak: 14484 cd

Power: 43.8 W

Voltage: 119 V

Current: 0.373 A

PF: 0.99

THD: 11.28 %



Product name:

ATF8040-35-90BK -NARROW

Driver Used:

TRACK FOCUS

Test Date:

9/28/2017

Beam Angle:

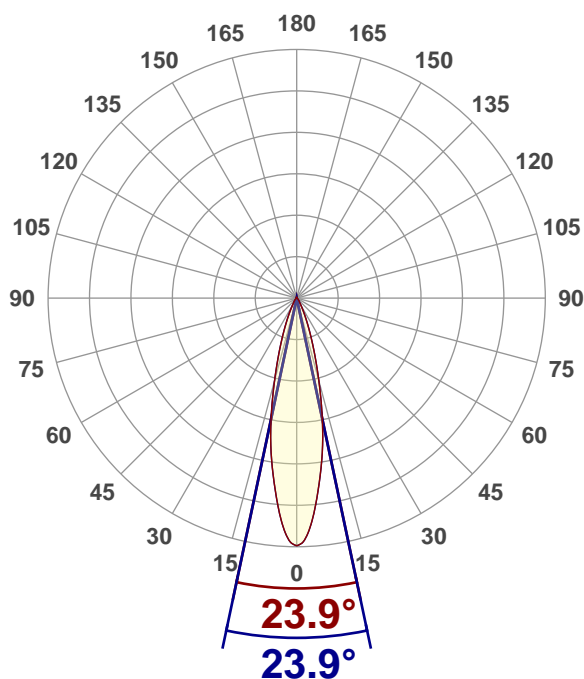
23.9°

Field Angle:

47.1°

Cut Off Angle:

65.9°



Beam details

*measured at center of beam

Mounting Height (feet)/(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	9744 lx	905 fcd	1.7 ft / 0.5 m
8 ft / 2.4 m	2436 lx	226 fcd	3.4 ft / 1 m
12 ft / 3.7 m	1083 lx	101 fcd	5.1 ft / 1.5 m
16 ft / 4.9 m	609 lx	57 fcd	6.8 ft / 2.1 m
20 ft / 6.1 m	390 lx	36 fcd	8.5 ft / 2.6 m

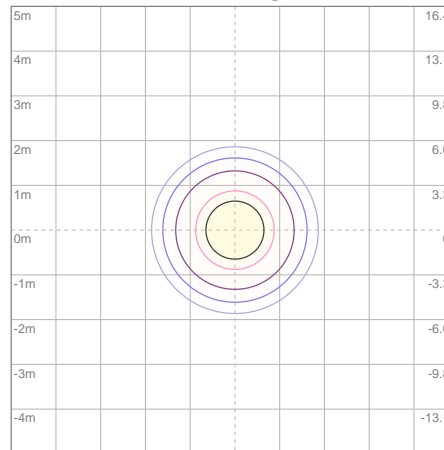
Beam center

Light planning Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	3003	86.14%
0-40	3202	91.85%
0-60	3364	96.50%
60-90	36.1	1.04%
70-100	21.6	0.62%
90-120	18.7	0.54%
0-90	3400	97.53%
90-180	86.4	2.48%
0-180	3486	100.00%

ISO lux diagram



Mounting height: 3.05 meters (10 feet)

Lux at center:	1557 lx
3%	46.71 lx
5%	77.85 lx
10%	155.70 lx
30%	467.10 lx
50%	778.50 lx

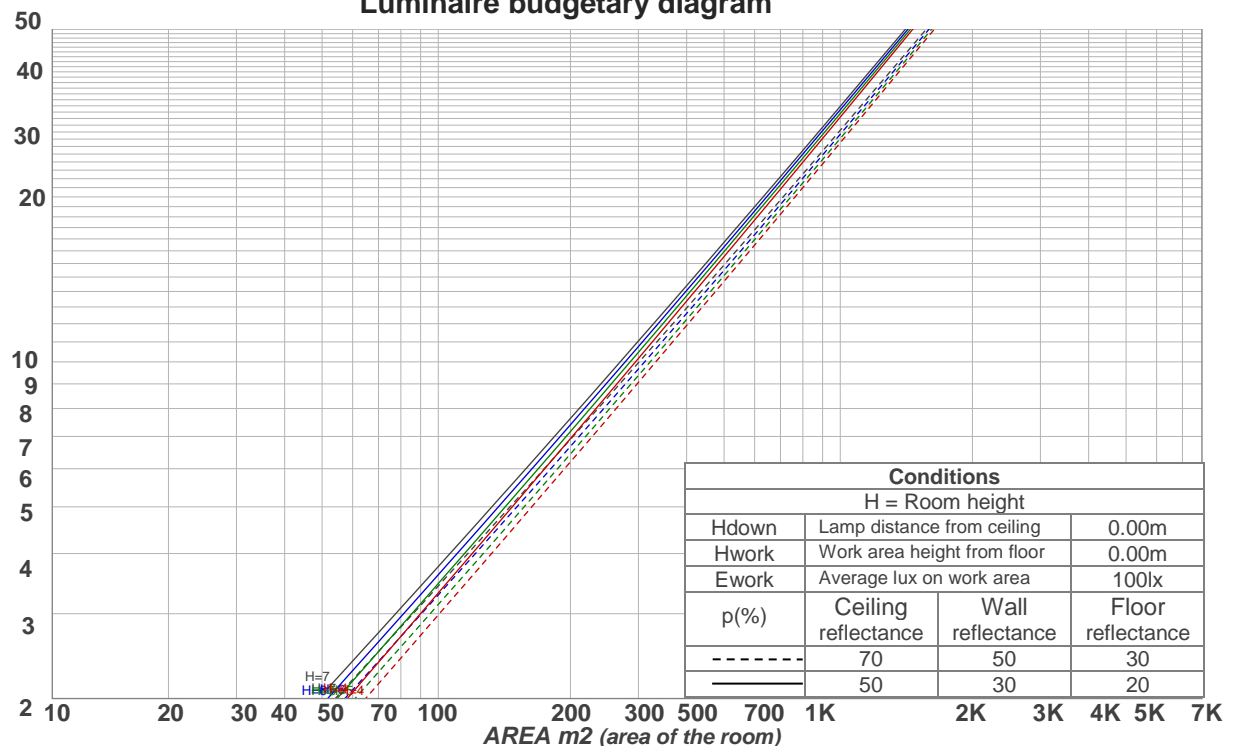
Conditions:
Number of planes: 8
Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

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	110	110	110	105	105	105	100	100	100	98
1	114	111	109	107	111	109	107	105	105	103	102	101	99	98	97	96	95	93
2	109	105	102	99	107	103	100	98	100	97	95	97	95	93	94	92	91	89
3	105	100	96	93	103	99	95	92	96	93	90	93	91	88	91	89	87	85
4	101	95	91	88	100	94	90	87	92	88	86	90	87	84	88	85	83	82
5	98	91	87	83	96	90	86	83	88	85	82	87	83	81	85	82	80	79
6	95	88	83	80	93	87	82	79	85	81	78	84	80	78	82	79	77	76
7	91	84	80	76	90	84	79	76	82	78	75	81	77	75	80	77	74	73
8	89	81	77	73	87	81	76	73	79	76	73	78	75	72	77	74	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	75	72	70	69
10	83	76	71	69	82	75	71	68	75	71	68	74	70	68	73	70	68	67

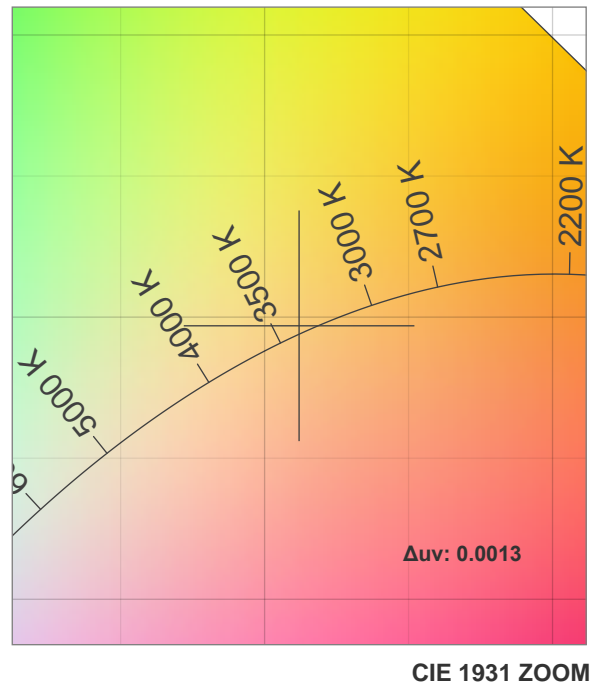
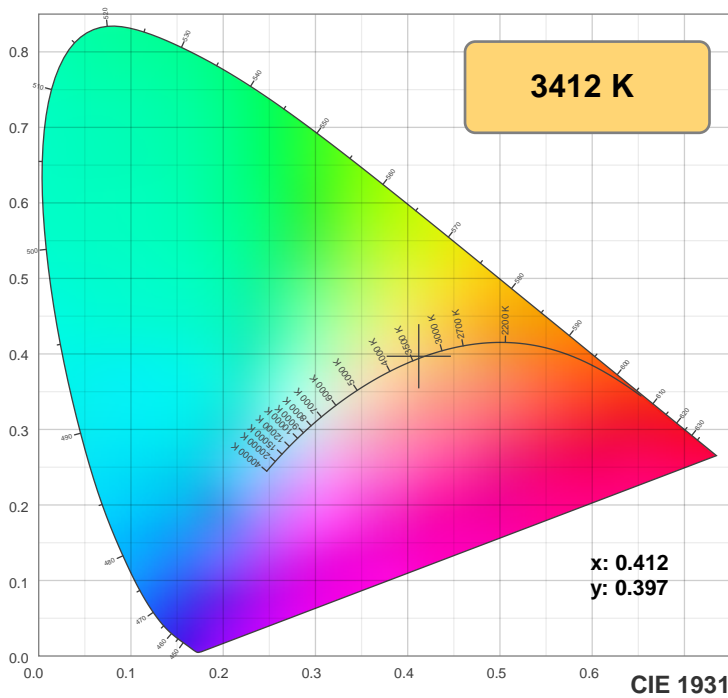
LAMPS (number of lamps)

Luminaire budgetary diagram

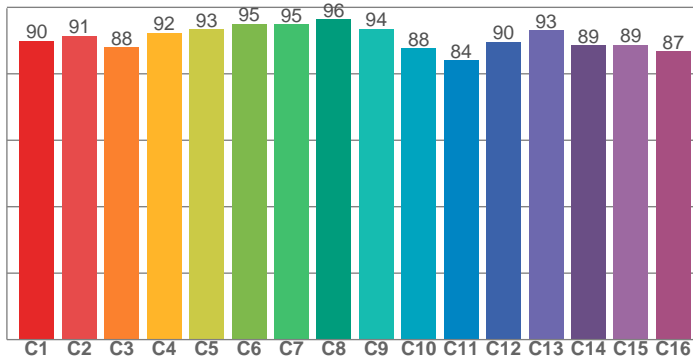


Color details

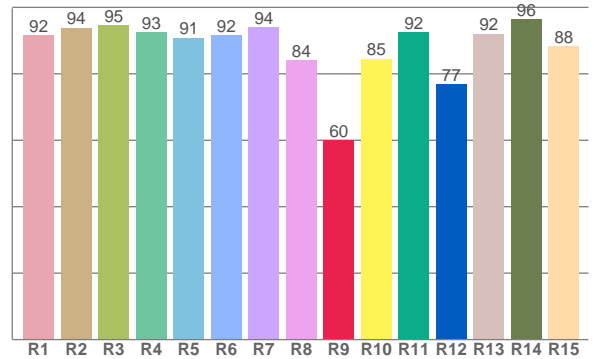
Photometric Testing Report



TM30: 90.6



CRI: 91.7 (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
91.7	93.8	94.7	92.6	90.9	91.5	94.1	84.2	60.0	84.6	92.4	76.8	92.0	96.5	88.4

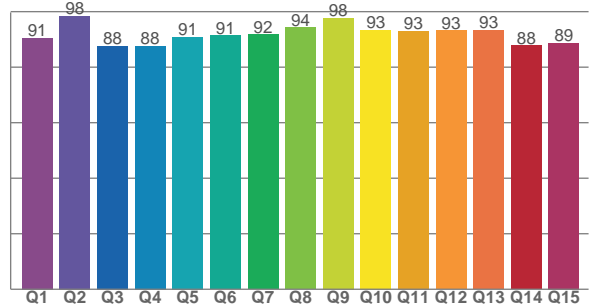
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.9	91.4	87.9	92.4	93.4	95.0	94.8	96.4	93.6	87.7	84.0	89.6	93.1	88.5	88.7	86.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90.6	98.4	87.5	87.7	90.9	91.4	91.8	94.2	97.7	93.4	93.0	93.1	93.3	87.7	88.7

CQS: 91.3



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
3412 K	91.7	60.0	90.6	99.6	91.3	0.412	0.397	0.237	0.343	0.0013

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	16.1	16.8	16.4	17.0	17.2	16.1	16.8	16.4	17.0	17.2
	3H	16.1	16.7	16.4	17.0	17.3	16.1	16.7	16.4	17.0	17.3
	4H	16.1	16.7	16.5	17.0	17.3	16.1	16.7	16.5	17.0	17.3
	6H	16.2	16.7	16.6	17.1	17.4	16.2	16.7	16.6	17.1	17.4
	8H	16.3	16.8	16.7	17.1	17.5	16.3	16.8	16.7	17.1	17.5
	12H	16.4	16.9	16.8	17.2	17.6	16.4	16.9	16.8	17.2	17.6
4H	2H	16.1	16.7	16.4	16.9	17.3	16.1	16.7	16.4	16.9	17.3
	3H	16.2	16.6	16.5	17.0	17.4	16.2	16.6	16.5	17.0	17.4
	4H	16.2	16.6	16.6	17.0	17.4	16.2	16.6	16.6	17.0	17.4
	6H	16.4	16.7	16.8	17.1	17.6	16.4	16.7	16.8	17.1	17.6
	8H	16.6	16.9	17.0	17.3	17.7	16.6	16.9	17.0	17.3	17.7
	12H	16.8	17.1	17.3	17.5	18.0	16.8	17.1	17.3	17.5	18.0
8H	4H	16.2	16.5	16.7	16.9	17.4	16.2	16.5	16.7	16.9	17.4
	6H	16.5	16.7	17.0	17.2	17.7	16.5	16.7	17.0	17.2	17.7
	8H	16.7	16.9	17.2	17.4	17.9	16.7	16.9	17.2	17.4	17.9
	12H	17.1	17.3	17.6	17.8	18.3	17.1	17.3	17.6	17.8	18.3
12H	4H	16.2	16.5	16.7	16.9	17.4	16.2	16.5	16.7	16.9	17.4
	6H	16.5	16.7	17.0	17.2	17.7	16.5	16.7	17.0	17.2	17.7
	8H	16.8	17.0	17.3	17.5	18.0	16.8	17.0	17.3	17.5	18.0
Variation of the observer position for the luminaire distance S											
S = 1.0H		+1.4 / -1.5					+1.4 / -1.5				
S = 1.5H		+3.1 / -2.5					+3.1 / -2.5				
S = 2.0H		+4.8 / -3.8					+4.8 / -3.8				
Standard table		BK02					BK02				
Correction summand		-1.1					-1.1				
Corrected glare indices referring to 3486 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.