

Photometric Testing Report

Light efficiency:

86 Lumen/Watt

Light quality:

CRI: 83.9 CQS: 83.0

Color temperature:

3096 K

Output: 3939 lm

Peak: 3613 cd

Power: 45.7 W

PF: 0.99

Voltage: 118 V

Current: 0.392 A

Frequency: 60 Hz

THD Current: 9.36%

THD Voltage: 0.97%



Product Name:

ALR8-4430W-HC

Driver used:

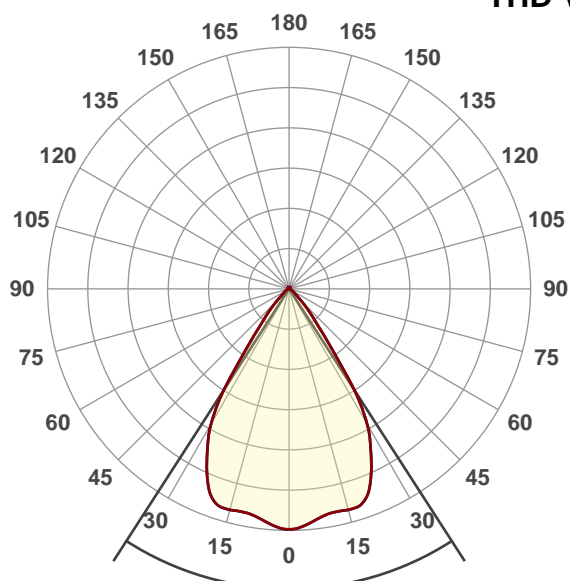
Date:

2/15/2018

Beam angle: 65.7°

Field angle: 86.7°

Cut-Off angle: 108.9°



65.7°

Beam details

*measured at
center of beam

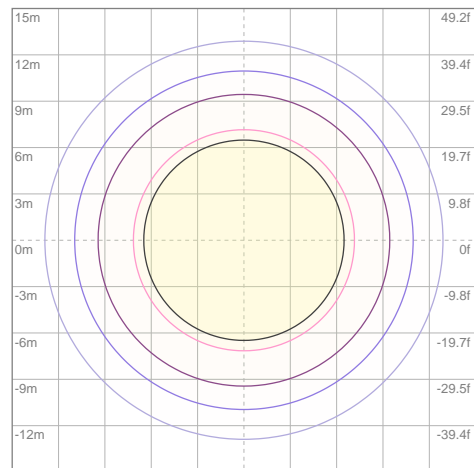
Mounting Height (feet)\(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	2431 lx	226 fcd	5.2 ft / 1.6 m
8 ft / 2.4 m	608 lx	56 fcd	10.3 ft / 3.1 m
12 ft / 3.7 m	270 lx	25 fcd	15.5 ft / 4.7 m
16 ft / 4.9 m	152 lx	14 fcd	20.6 ft / 6.3 m
20 ft / 6.1 m	97 lx	9 fcd	25.8 ft / 7.9 m

Beam center

Light planning Photometric Testing Report

ISO lux diagram

Zonal Lumen Summary



3% 1.08 lx
 5% 1.81 lx
 10% 3.61 lx
 30% 10.8 lx
 50% 18.1 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Conditions:
 Number of c-planes: 32
 Lux at center: 36.1 lx

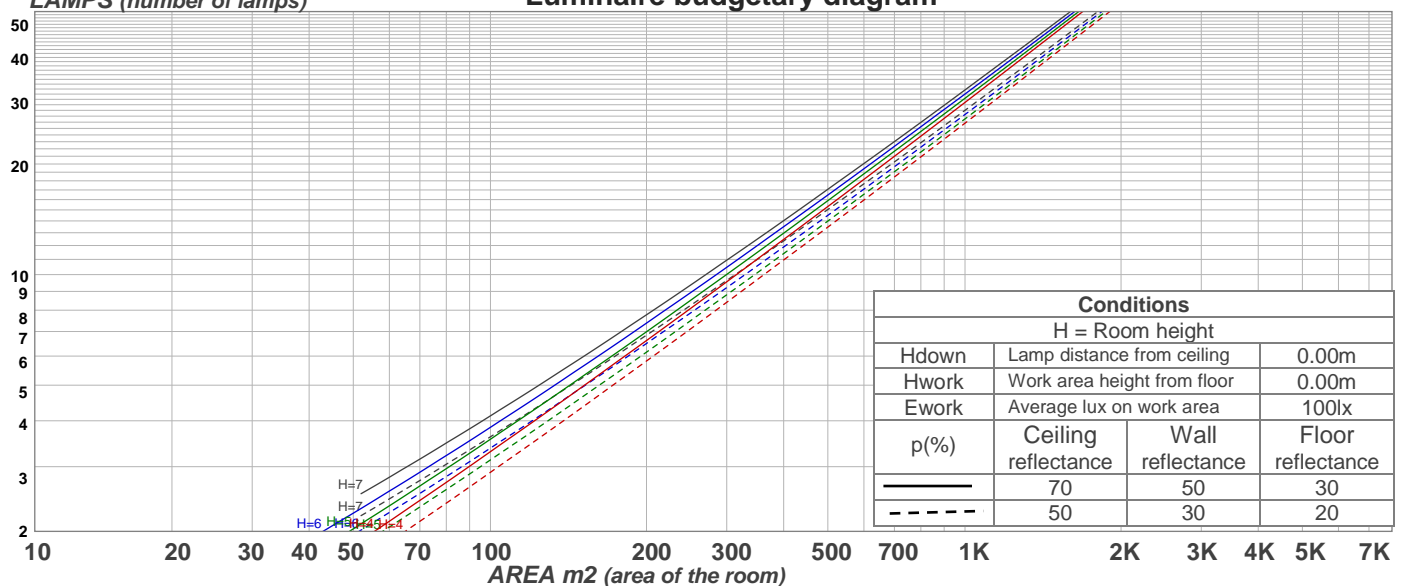
Mounting height: 10 meters (33 feet)

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	104	104	104	100	100	100	97
1	112	109	107	104	110	107	105	102	102	101	99	98	97	95	94	93	92	90
2	106	101	97	93	104	99	95	92	96	92	90	92	90	87	89	87	85	83
3	101	94	89	84	98	92	87	84	89	85	82	86	83	80	84	81	79	77
4	95	87	82	77	93	86	81	76	83	79	75	81	77	74	79	76	73	71
5	90	81	75	71	88	80	75	70	78	73	69	76	72	69	74	71	68	66
6	85	76	70	65	84	75	69	65	73	68	64	72	67	64	70	66	63	61
7	81	71	65	61	79	70	65	60	69	64	60	67	63	59	66	62	59	57
8	77	67	61	56	75	66	60	56	65	60	56	64	59	55	62	58	55	53
9	73	63	57	53	72	62	56	52	61	56	52	60	55	52	59	55	51	50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	51	48	47

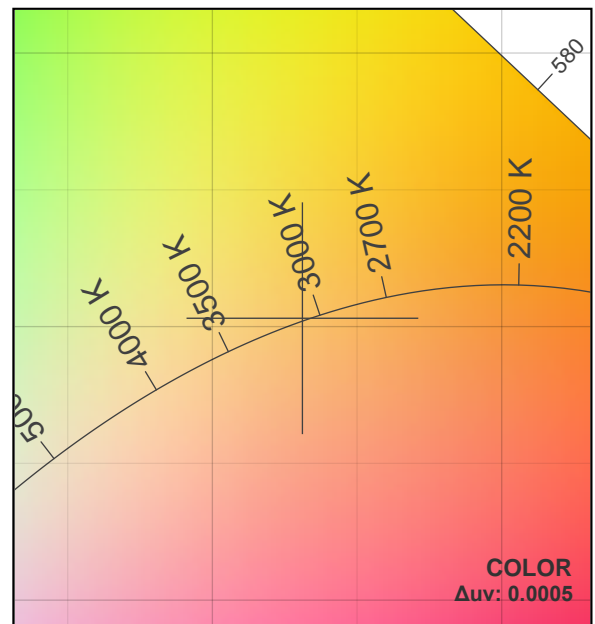
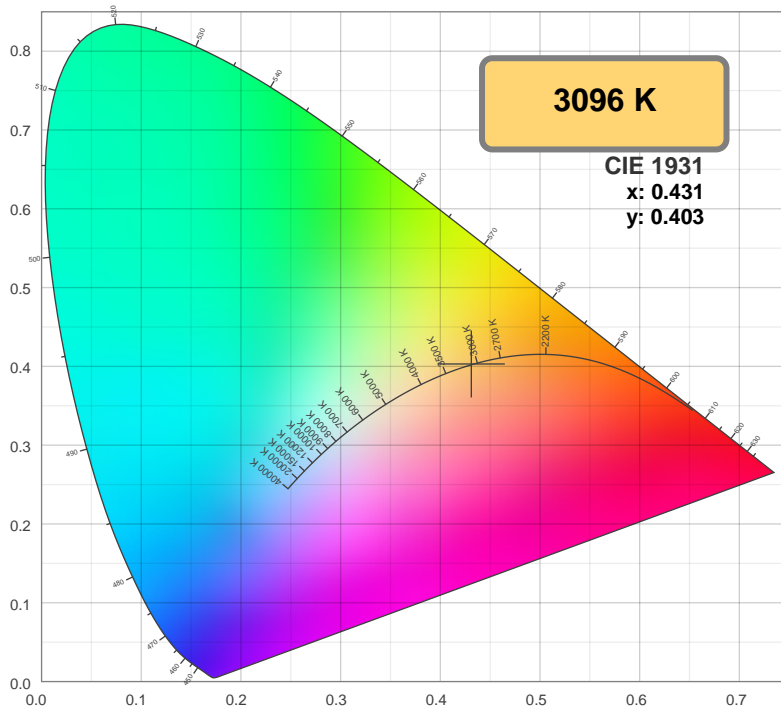
LAMPS (number of lamps)

Luminaire budgetary diagram



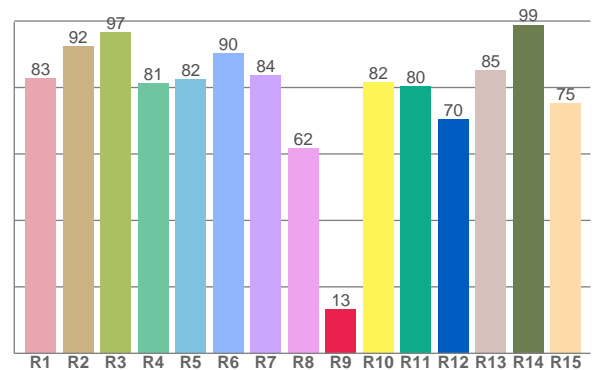
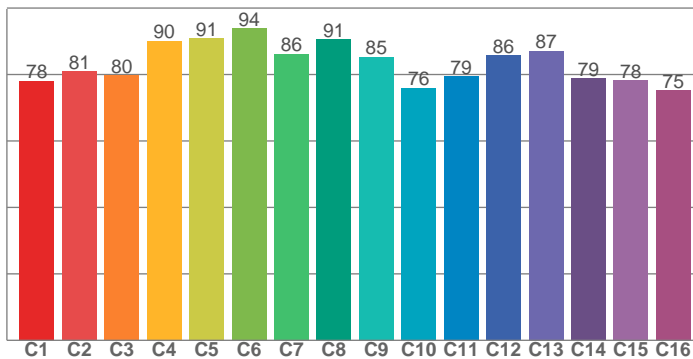
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Color details



TM30: 83.5

CRI: 83.9 (R1-R8)



CQS: 83.0

CRI R values, only R1-R8 are used to calculate final CRI value

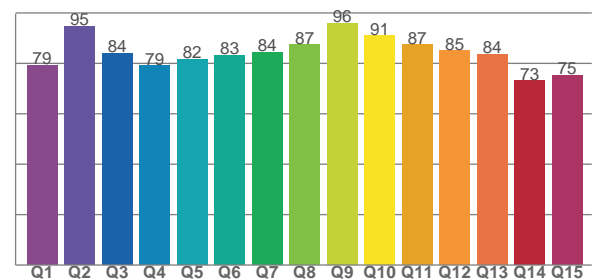
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
82.7	92.3	96.5	81.4	82.4	90.4	83.7	61.8	13.1	81.6	80.3	70.4	85.2	98.9	75.2

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
78.0	80.9	79.7	90.2	90.9	93.9	86.1	90.6	85.2	75.9	79.4	85.7	87.1	78.8	78.3	75.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79.3	94.6	83.9	79.0	81.7	83.1	84.3	87.4	95.9	90.9	87.4	85.0	83.7	73.1	75.3



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UGR

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	17.8	18.5	18.1	18.7	19.0	17.8	18.5	18.1	18.7	19.0
	3H	17.8	18.4	18.1	18.7	19.0	17.8	18.4	18.1	18.7	19.0
	4H	17.7	18.4	18.1	18.7	19.0	17.7	18.4	18.1	18.7	19.0
	6H	17.7	18.3	18.1	18.6	19.0	17.7	18.3	18.1	18.6	19.0
	8H	17.7	18.3	18.1	18.6	19.0	17.7	18.3	18.1	18.6	19.0
	12H	17.7	18.2	18.1	18.6	19.0	17.7	18.2	18.1	18.6	19.0
4H	2H	17.6	18.3	18.0	18.6	18.9	17.6	18.3	18.0	18.6	18.9
	3H	17.7	18.2	18.0	18.5	18.9	17.7	18.2	18.0	18.5	18.9
	4H	17.7	18.1	18.1	18.5	18.9	17.7	18.1	18.1	18.5	18.9
	6H	17.7	18.1	18.1	18.5	18.9	17.7	18.1	18.1	18.5	18.9
	8H	17.7	18.0	18.2	18.5	18.9	17.7	18.0	18.2	18.5	18.9
	12H	17.8	18.0	18.2	18.5	19.0	17.8	18.0	18.2	18.5	19.0
8H	4H	17.6	17.9	18.1	18.4	18.8	17.6	17.9	18.1	18.4	18.8
	6H	17.7	17.9	18.2	18.4	18.9	17.7	17.9	18.2	18.4	18.9
	8H	17.7	17.9	18.2	18.4	18.9	17.7	17.9	18.2	18.4	18.9
	12H	17.8	18.0	18.3	18.5	19.0	17.8	18.0	18.3	18.5	19.0
12H	4H	17.6	17.9	18.1	18.3	18.8	17.6	17.9	18.1	18.3	18.8
	6H	17.6	17.9	18.2	18.3	18.9	17.6	17.9	18.2	18.3	18.9
	8H	17.7	17.9	18.2	18.4	18.9	17.7	17.9	18.2	18.4	18.9
Variation of the observer position for the luminaire distance S											
S = 1.0H		+4.4 / -4.2					+4.4 / -4.2				
S = 1.5H		+7.1 / -4.9					+7.1 / -4.9				
S = 2.0H		+9.1 / -5.7					+9.1 / -5.7				
Standard table		BK01					BK01				
Correction summand		-0.2					-0.2				
Corrected glare indices referring to 3939lm total luminous flux											