

## Photometric Testing Report

## Light efficiency:

91 Lumen/Watt

## Light quality:

CRI: 83.2 CQS: 81.9

## Color temperature:

3076 K

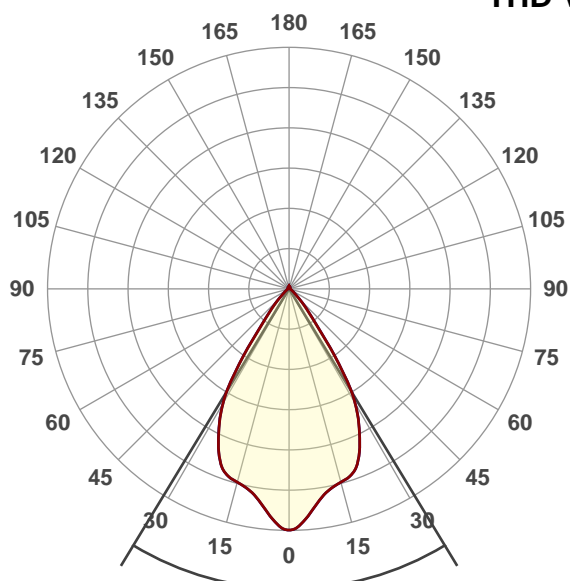
**Output: 1309 lm****Peak: 1365 cd****Power: 14.4 W****PF: 0.99****Voltage: 118 V****Current: 0.124 A****Frequency: 60 Hz****THD Current: 9.9%****THD Voltage: 0.92%**

Product Name:

**ALR8-1530W-HC**

Driver used:

Date:

**2/13/2018****Beam angle: 62.5°****Field angle: 84°****Cut-Off angle: 106.3°****62.5°****Beam details**\*measured at  
center of beam

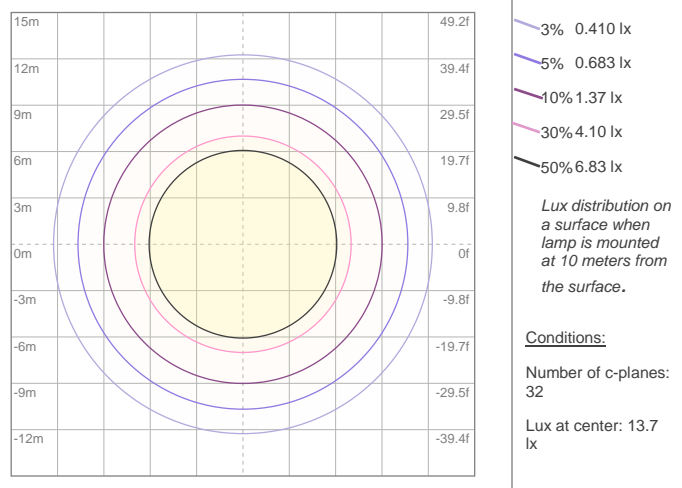
Mounting Height (feet)\(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	918 lx	85 fcd	4.9 ft / 1.5 m
8 ft / 2.4 m	230 lx	21 fcd	9.7 ft / 3 m
12 ft / 3.7 m	102 lx	9 fcd	14.6 ft / 4.4 m
16 ft / 4.9 m	57 lx	5 fcd	19.4 ft / 5.9 m
20 ft / 6.1 m	37 lx	3 fcd	24.3 ft / 7.4 m

Beam center

# Light planning Photometric Testing Report

## ISO lux diagram

### Zonal Lumen Summary



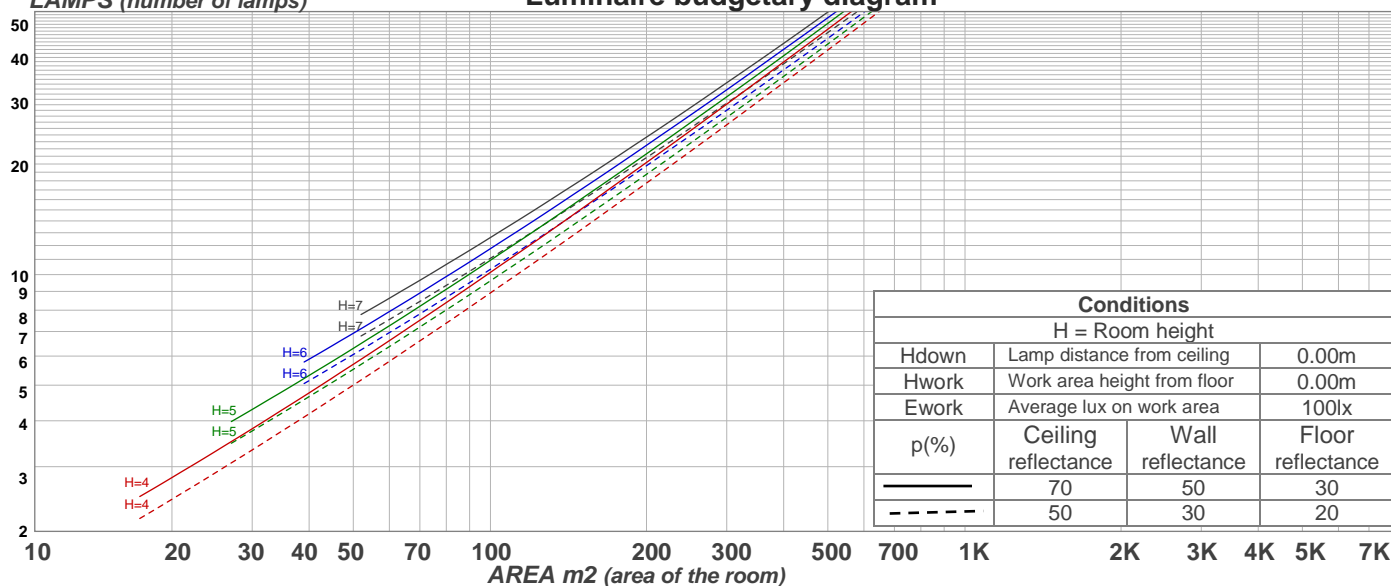
Mounting height: 10 meters (33 feet)

### 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	109	109	109	104	104	104	99	99	99	96
1	112	109	106	104	109	107	104	102	102	100	98	98	96	95	94	92	91	89
2	106	101	97	93	104	99	95	92	95	92	89	91	89	87	88	86	84	82
3	100	94	88	84	98	92	87	83	89	85	81	86	82	80	83	80	78	76
4	95	87	81	77	93	86	80	76	83	78	75	81	77	74	78	75	72	71
5	90	81	75	71	88	80	74	70	78	73	69	76	71	68	74	70	67	66
6	85	76	70	65	83	75	69	65	73	68	64	71	67	63	70	66	63	61
7	81	71	65	60	79	70	64	60	69	63	60	67	63	59	66	62	59	57
8	77	67	61	56	75	66	60	56	65	59	56	63	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	53	49	57	52	49	56	51	48	47

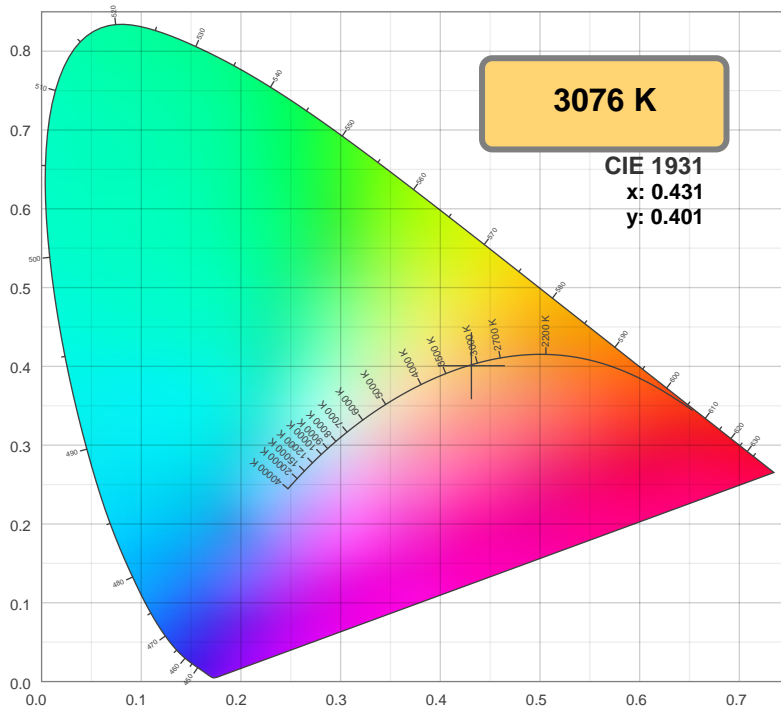
LAMPS (number of lamps)

### Luminaire budgetary diagram

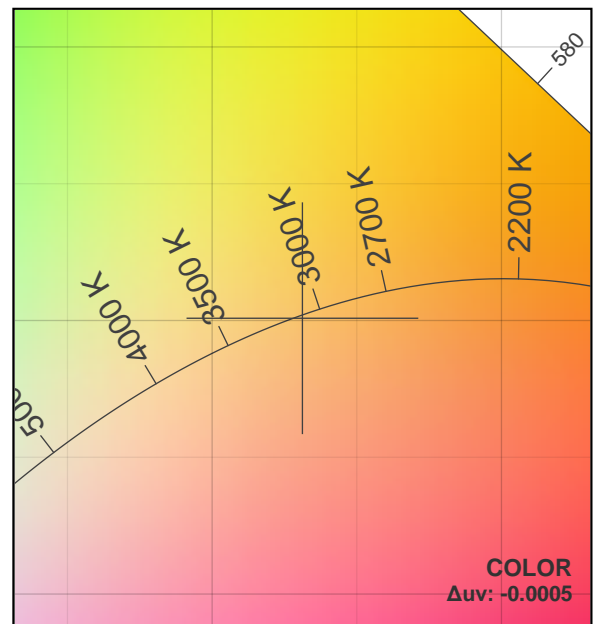


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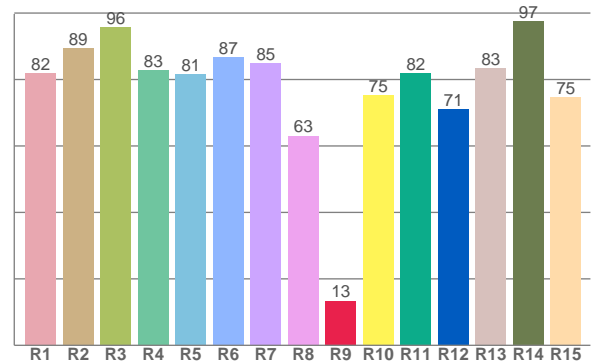
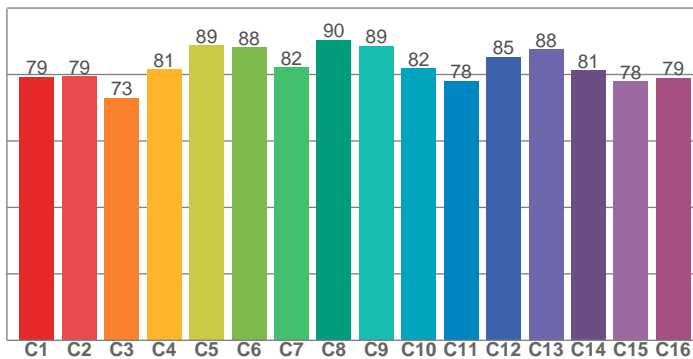
## Color details



TM30: 82.4



CRI: 83.2 (R1-R8)



CQS: 81.9

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

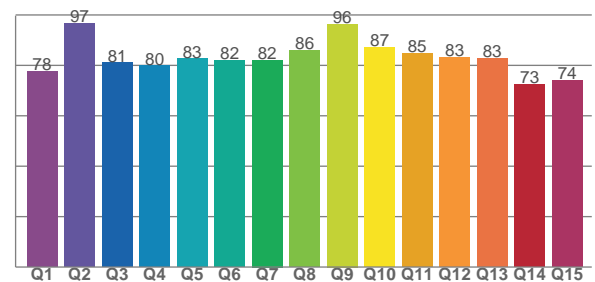
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81.8	89.4	95.8	82.7	81.5	86.6	84.9	63.1	13.4	75.3	82.0	70.9	83.3	97.4	74.7

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
79.3	79.4	72.9	81.5	88.8	88.1	82.1	90.5	88.6	81.9	78.0	85.3	87.5	81.2	77.9	79.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.7	96.7	81.0	79.8	82.7	82.0	82.1	85.9	96.4	87.2	84.7	83.1	82.9	72.5	74.1



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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	13.7	14.4	14.0	14.7	15.0	13.7	14.4	14.0	14.7	15.0
	3H	13.7	14.4	14.1	14.7	15.0	13.7	14.4	14.1	14.7	15.0
	4H	13.7	14.4	14.1	14.7	15.0	13.7	14.4	14.1	14.7	15.0
	6H	13.8	14.4	14.2	14.7	15.0	13.8	14.4	14.2	14.7	15.0
	8H	13.8	14.4	14.2	14.7	15.1	13.8	14.4	14.2	14.7	15.1
	12H	13.9	14.4	14.3	14.8	15.2	13.9	14.4	14.3	14.8	15.2
4H	2H	13.6	14.2	13.9	14.5	14.8	13.6	14.2	13.9	14.5	14.8
	3H	13.7	14.2	14.1	14.5	14.9	13.7	14.2	14.1	14.5	14.9
	4H	13.7	14.2	14.2	14.6	15.0	13.7	14.2	14.2	14.6	15.0
	6H	13.8	14.2	14.3	14.6	15.1	13.8	14.2	14.3	14.6	15.1
	8H	13.9	14.3	14.4	14.7	15.2	13.9	14.3	14.4	14.7	15.2
	12H	14.1	14.4	14.6	14.9	15.4	14.1	14.4	14.6	14.9	15.4
8H	4H	13.7	14.0	14.2	14.5	14.9	13.7	14.0	14.2	14.5	14.9
	6H	13.9	14.1	14.4	14.6	15.2	13.9	14.1	14.4	14.6	15.2
	8H	14.1	14.3	14.6	14.8	15.3	14.1	14.3	14.6	14.8	15.3
	12H	14.4	14.5	14.9	15.1	15.6	14.4	14.5	14.9	15.1	15.6
12H	4H	13.7	14.0	14.2	14.4	14.9	13.7	14.0	14.2	14.4	14.9
	6H	13.9	14.1	14.4	14.6	15.2	13.9	14.1	14.4	14.6	15.2
	8H	14.1	14.3	14.7	14.8	15.4	14.1	14.3	14.7	14.8	15.4
Variation of the observer position for the luminaire distance S											
S = 1.0H		+3.9 / -2.9					+3.9 / -2.9				
S = 1.5H		+6.5 / -3.5					+6.5 / -3.5				
S = 2.0H		+8.4 / -4.1					+8.4 / -4.1				
Standard table		BK01					BK01				
Correction summand		-3.8					-3.8				
Corrected glare indices referring to 1309lm total luminous flux											