

## Light efficiency:

92 Lumen/Watt

## Color temperature:

2935 K

## Light quality:

CRI:84.4, R<sub>g</sub>:85.2, R<sub>f</sub>:98.1

P: 3 / V: - / F: -

Output: 357 lm

Peak: 116 cd

Power: 3.9 W

Voltage: 24.0 V

Current: 0.162 A

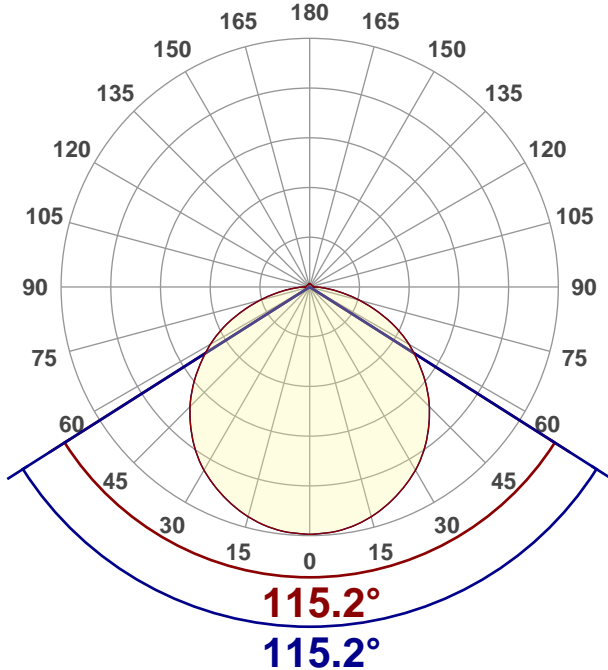
PF: 1.0

THD: n/a %



## Angular Distribution

0° and 90° plane



Product name:

LED-TP1VH-12-30K - AL1607

Test Date:

2021-09-30

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

115.2°

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

164.6°

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

177.6°

## Beam Details

\*measured at centre of beam

Mounting Height (feet)/(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	78 lx	7 fc	12.6 ft / 3.8 m
8 ft / 2.4 m	20 lx	2 fc	25.2 ft / 7.7 m
12 ft / 3.7 m	9 lx	1 fc	37.8 ft / 11.5 m
16 ft / 4.9 m	5 lx	0 fc	50.4 ft / 15.4 m
20 ft / 6.1 m	3 lx	0 fc	63 ft / 19.2 m

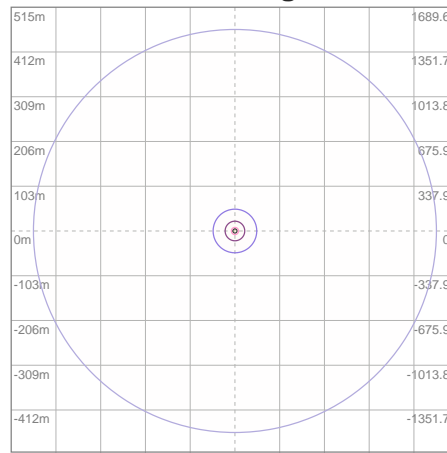
Beam center

## Photometric Testing Report

## Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	90.6	25.38%
0-40	149	41.74%
0-60	266	74.51%
60-90	78.3	21.93%
70-100	36.8	10.31%
90-120	6.62	1.85%
0-90	345	96.64%
90-180	12.2	3.42%
0-180	357	100.00%

## ISO Lux Diagram



Mounting height: 3.05 meters (10 feet)

Lux at center:	12 lx
3%	0.36 lx
5%	0.60 lx
10%	1.20 lx
30%	3.60 lx
50%	6.00 lx

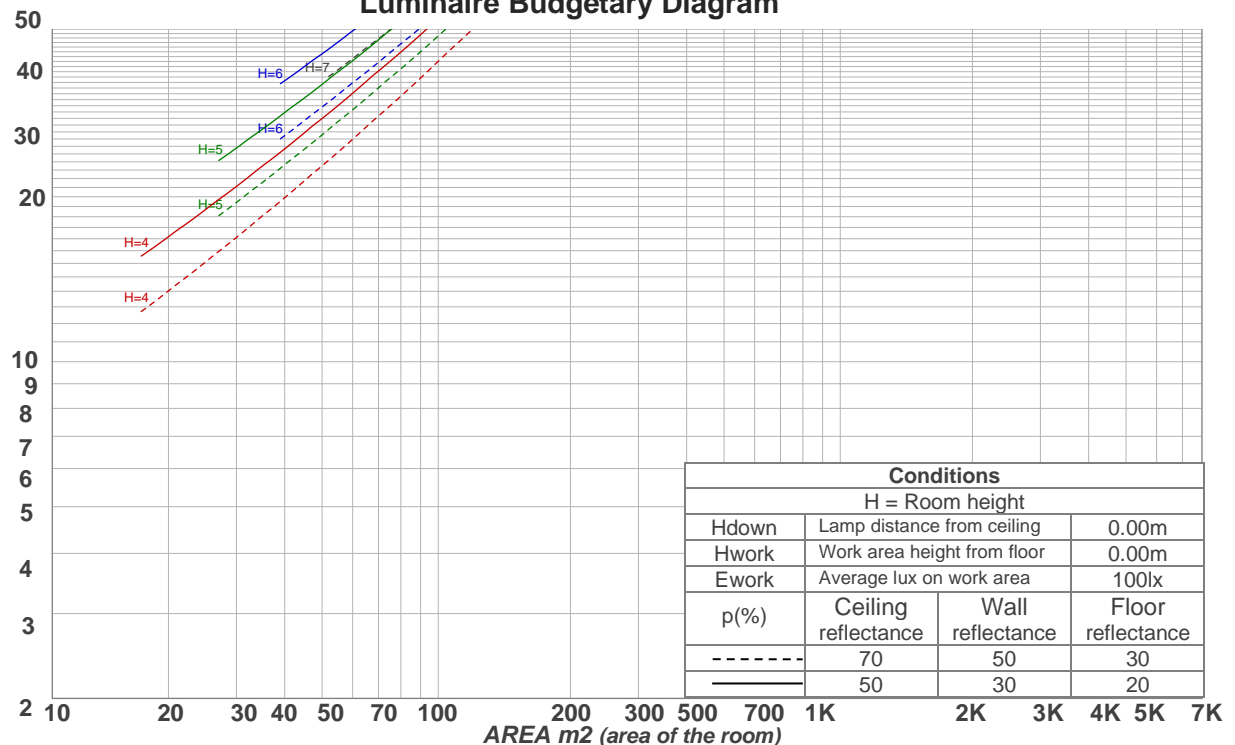
**Conditions:**  
Number of planes: 8  
Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

## 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	108	103	98	94	104	100	96	92	95	92	89	91	88	85	86	84	82	80
2	98	89	82	76	95	87	81	75	83	77	73	79	75	71	75	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	53	79	67	59	53	64	57	52	62	56	50	59	54	49	47
5	75	62	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	44	38	33	31
8	59	46	37	31	57	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	27	38	32	27	37	31	27	25
10	52	39	31	25	50	38	30	25	37	30	25	36	29	25	34	29	24	23

LAMPS (number of lamps)

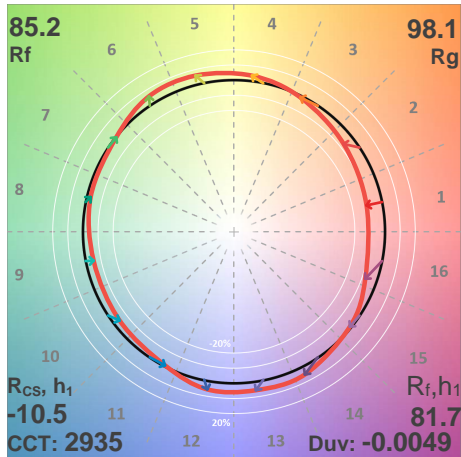
## Luminaire Budgetary Diagram



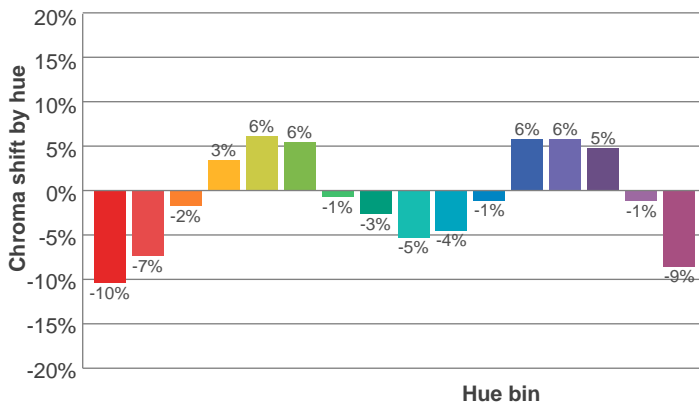
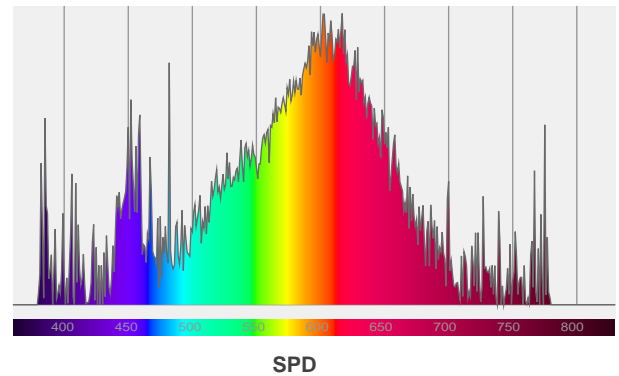
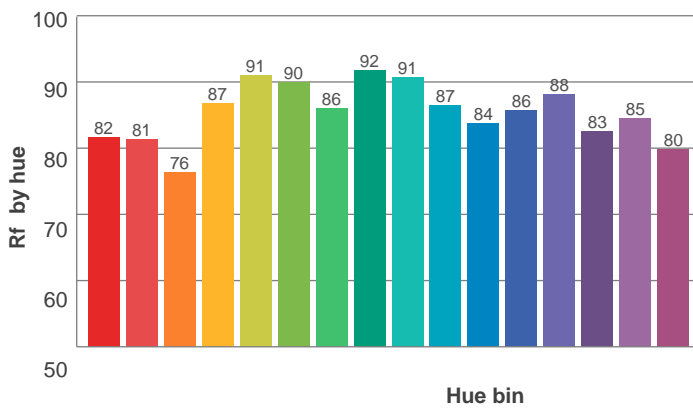
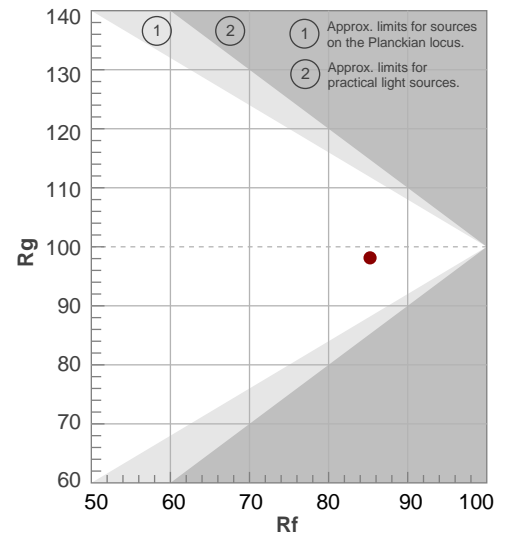
## Photometric Testing Report

ANSI/IES TM-30-18

P: 3 / V: - / F: -



Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	82	-10%	0%
2	81	-7%	8%
3	76	-2%	13%
4	87	3%	8%
5	91	6%	5%
6	90	6%	-3%
7	86	-1%	-9%
8	92	-3%	-4%
9	91	-5%	1%
10	87	-4%	7%
11	84	-1%	11%
12	86	6%	3%
13	88	6%	-6%
14	83	5%	-13%
15	85	-1%	-10%
16	80	-9%	-14%



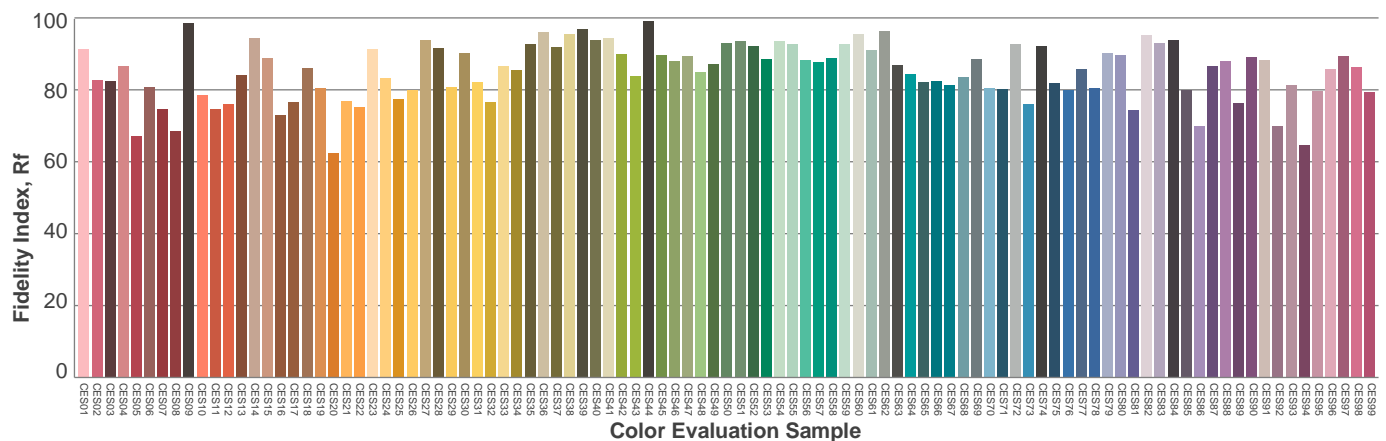
Red: 29.6%, Power=2.80mW

Blue: 9%, Power=1.37mW

Green: 23.1%, Power=3.47mW

UVA: 2.5%, Power=0.00mW

Dominant Wavelength: 586nm

1<sup>st</sup> Peak Wavelength: 617nm2<sup>nd</sup> Peak Wavelength: 602nm

**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	25.3	26.6	25.6	26.9	27.1	25.3	26.6	25.6	26.9	27.1
	3H	26.9	28.2	27.3	28.5	28.7	26.9	28.2	27.3	28.5	28.7
	4H	27.6	28.8	28.0	29.1	29.3	27.6	28.8	28.0	29.1	29.3
	6H	28.2	29.2	28.5	29.5	29.9	28.2	29.2	28.5	29.5	29.9
	8H	28.3	29.4	28.7	29.7	30.1	28.3	29.4	28.7	29.7	30.1
	12H	28.5	29.5	28.8	29.8	30.3	28.5	29.5	28.8	29.8	30.3
4H	2H	26.0	27.2	26.4	27.5	27.8	26.0	27.2	26.4	27.5	27.8
	3H	27.9	28.9	28.2	29.2	29.7	27.9	28.9	28.2	29.2	29.7
	4H	28.6	29.5	29.0	29.9	30.5	28.6	29.5	29.0	29.9	30.5
	6H	29.2	30.1	29.7	30.5	30.8	29.2	30.1	29.7	30.5	30.8
	8H	29.5	30.3	30.0	30.7	31.0	29.5	30.3	30.0	30.7	31.0
	12H	29.7	30.4	30.2	30.8	31.3	29.7	30.4	30.2	30.8	31.3
8H	4H	28.9	29.7	29.4	30.1	30.5	28.9	29.7	29.4	30.1	30.5
	6H	29.7	30.3	30.2	30.8	31.4	29.7	30.3	30.2	30.8	31.4
	8H	30.1	30.6	30.6	31.2	31.8	30.1	30.6	30.6	31.2	31.8
	12H	30.4	30.9	31.0	31.4	32.0	30.4	30.9	31.0	31.4	32.0
12H	4H	28.9	29.6	29.4	30.0	30.5	28.9	29.6	29.4	30.0	30.5
	6H	29.8	30.4	30.3	30.9	31.5	29.8	30.4	30.3	30.9	31.5
	8H	30.2	30.7	30.8	31.2	31.8	30.2	30.7	30.8	31.2	31.8
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.1 / -0.1					0.1 / -0.1				
S = 1.5H		0.1 / -0.2					0.1 / -0.2				
S = 2.0H		0.3 / -0.4					0.3 / -0.4				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 357 lm total luminous flux											