

## Light efficiency:

**153 Lumen/Watt**

## Color temperature:

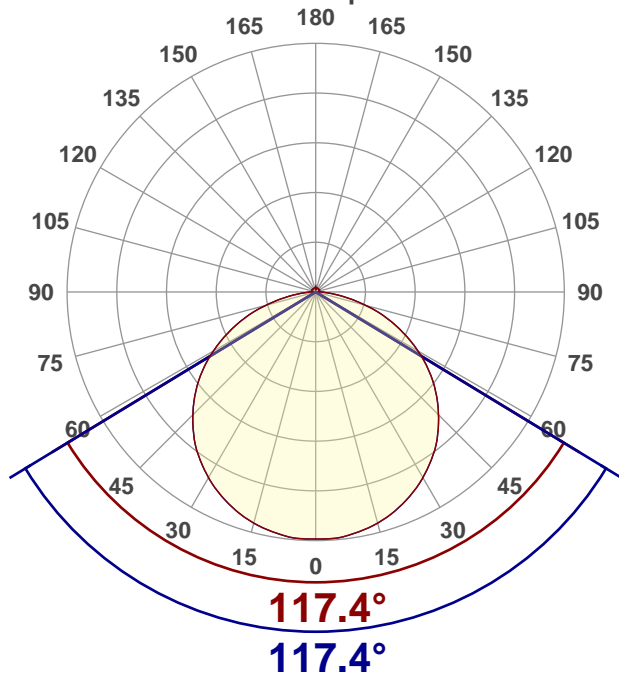
**3619 K**

## Light quality:

**CRI:84.8, R<sub>g</sub>:85.8, R<sub>f</sub>:95.9****P: 3 / V: - / F: -****Output: 602 lm****Peak: 193 cd****Power: 3.9 W****Voltage: 24.0 V****Current: 0.164 A****PF: 1.0****THD: n/a %**

## Angular Distribution

0° and 90° plane



Product name:

**LED-TP1VH-12-35K**

Test Date:

**2020-12-21**

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

**117.4°**

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

**163.1°**

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

**179.3°**

## Beam Details

\*measured at centre of beam

Mounting Height (feet)/(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	130 lx	12 fc	13.2 ft / 4 m
8 ft / 2.4 m	32 lx	3 fc	26.3 ft / 8 m
12 ft / 3.7 m	14 lx	1 fc	39.5 ft / 12 m
16 ft / 4.9 m	8 lx	1 fc	52.7 ft / 16 m
20 ft / 6.1 m	5 lx	0 fc	65.8 ft / 20.1 m

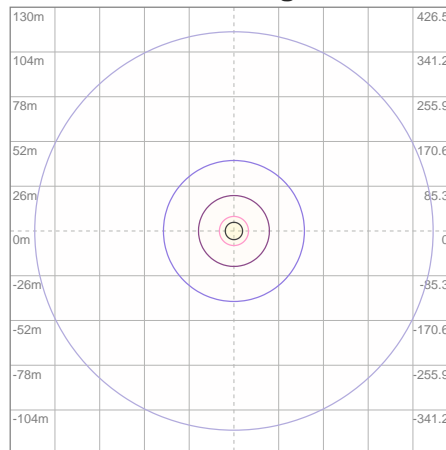
Beam center

## Photometric Testing Report

## Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	152	25.25%
0-40	251	41.69%
0-60	453	75.25%
60-90	130	21.59%
70-100	58.7	9.75%
90-120	9.25	1.54%
0-90	583	96.84%
90-180	19.1	3.17%
0-180	602	100.00%

## ISO Lux Diagram



Mounting height: 3.05 meters (10 feet)

Lux at center:	21 lx
3%	0.63 lx
5%	1.05 lx
10%	2.10 lx
30%	6.30 lx
50%	10.50 lx

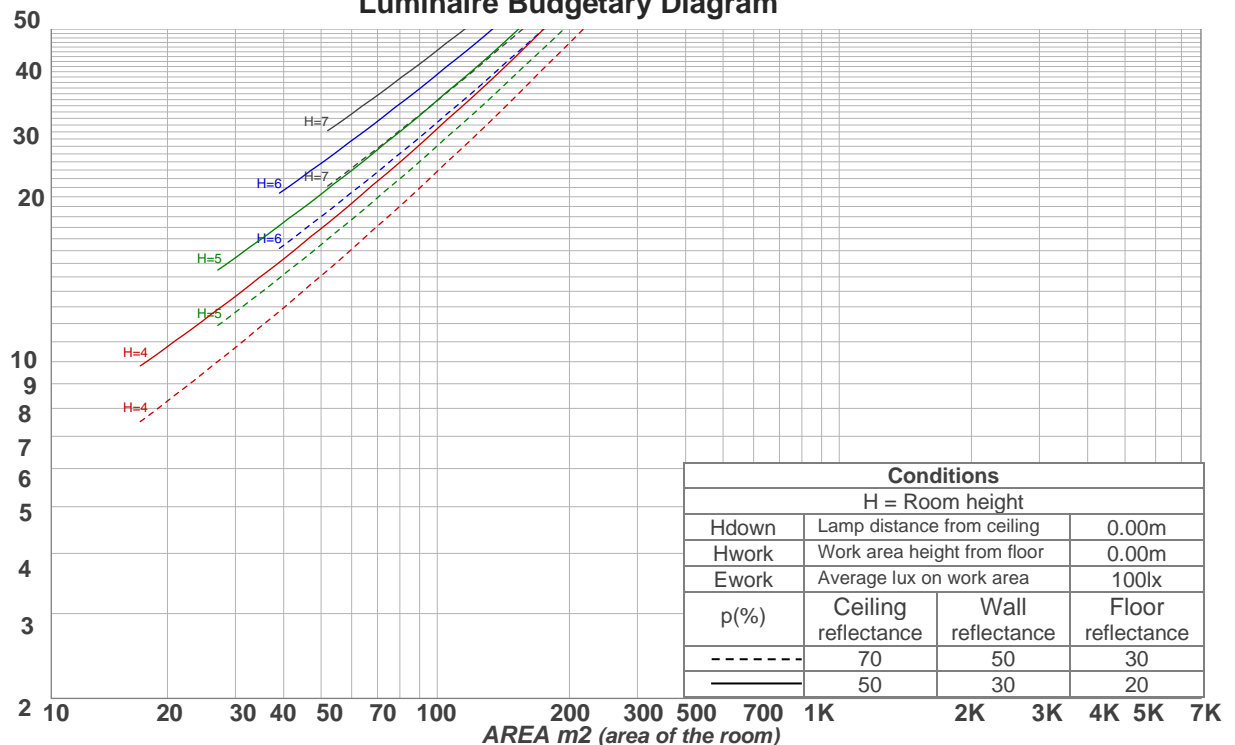
**Conditions:**  
Number of planes: 8  
Lux distribution on a surface when lamp is mounted at 3.05 meters from the surface.

## 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	108	103	98	95	105	100	96	93	95	92	89	91	88	86	87	85	83	80
2	98	89	82	77	95	87	81	75	83	78	73	79	75	71	76	72	69	67
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	47
5	75	62	52	46	72	60	52	45	58	50	45	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	36
7	64	50	41	35	62	49	41	35	47	40	34	46	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	32	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)

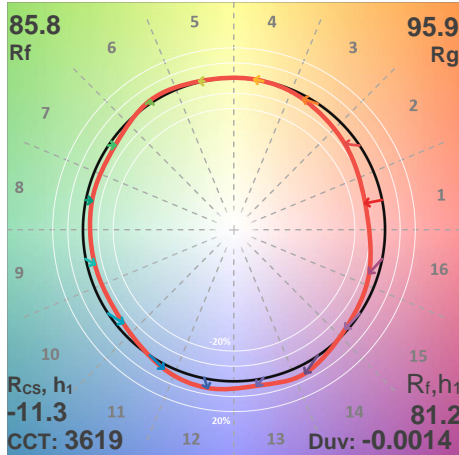
## Luminaire Budgetary Diagram



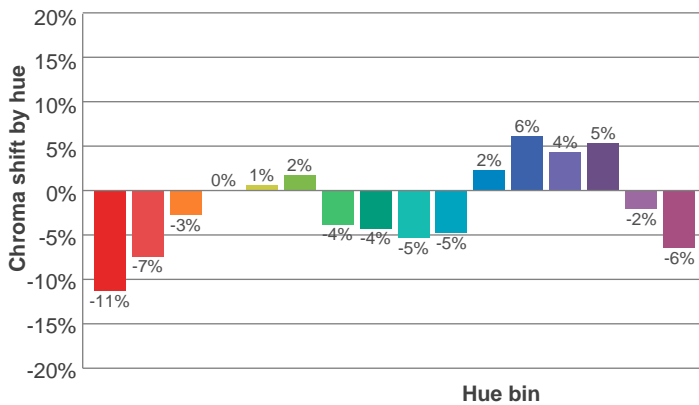
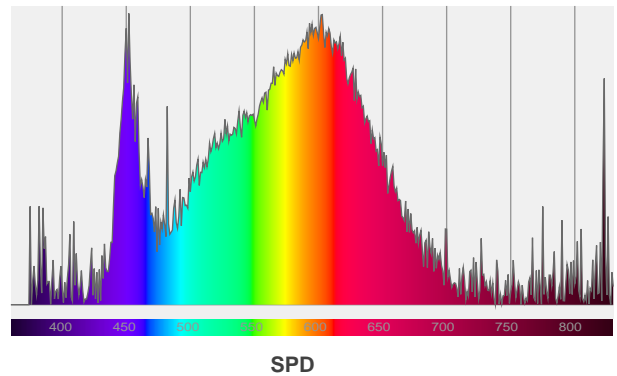
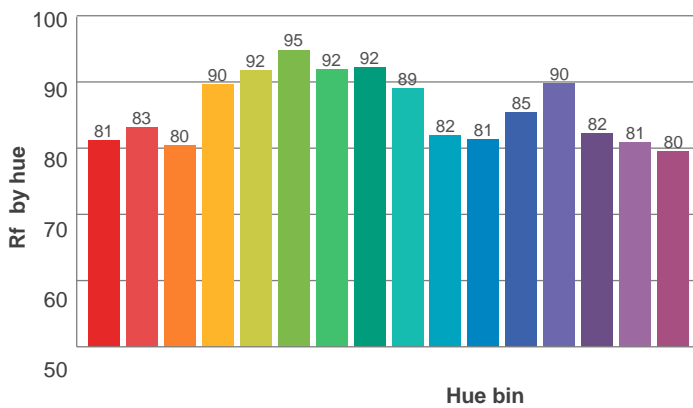
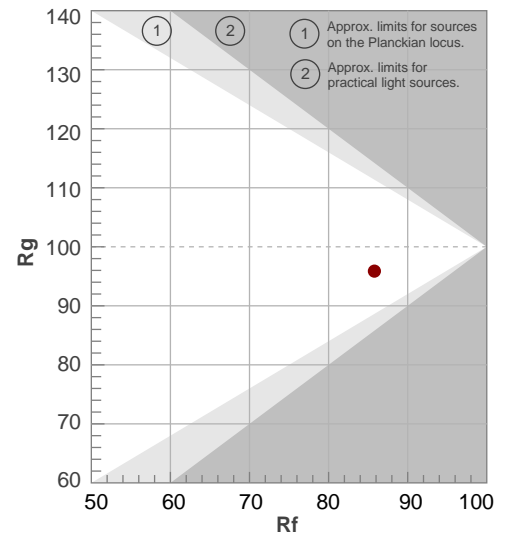
## Photometric Testing Report

ANSI/IES TM-30-18

P: 3 / V: - / F: -



Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	81	-11%	0%
2	83	-7%	6%
3	80	-3%	10%
4	90	0%	6%
5	92	1%	3%
6	95	2%	-1%
7	92	-4%	-3%
8	92	-4%	0%
9	89	-5%	5%
10	82	-5%	11%
11	81	2%	12%
12	85	6%	3%
13	90	4%	-5%
14	82	5%	-13%
15	81	-2%	-13%
16	80	-6%	-11%



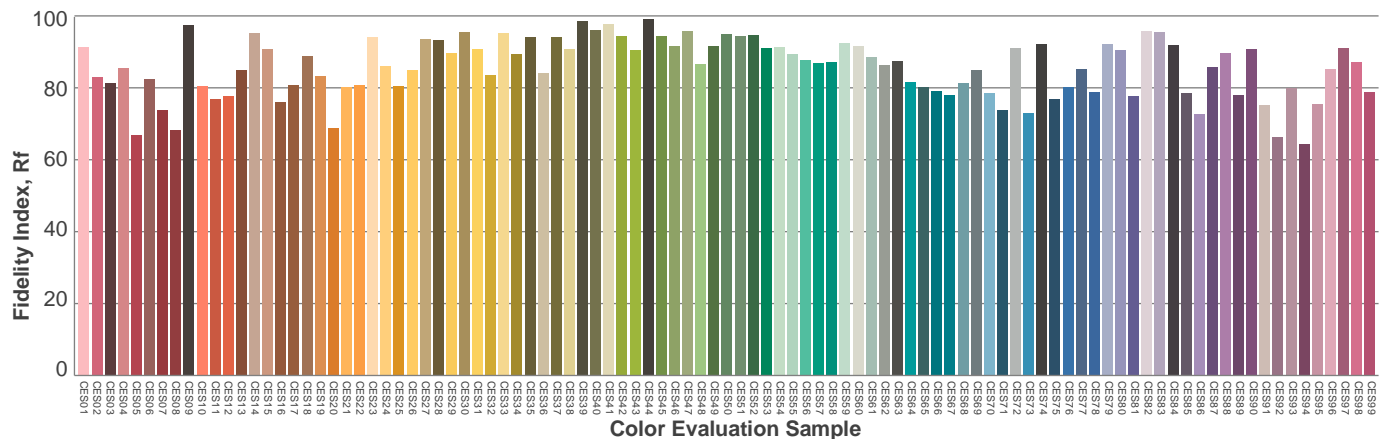
Red: 22.9%, Power=3.0mW

Blue: 12%, Power=3.7mW

Green: 27%, Power=6.8mW

UVA: 1.8%, Power=4.0mW

Dominant Wavelength: 583nm

1<sup>st</sup> Peak Wavelength: 452nm2<sup>nd</sup> Peak Wavelength: 603nm

### 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	27.2	28.4	27.5	28.8	29.1	27.2	28.4	27.5	28.8	29.1
	3H	28.7	30.0	29.2	30.3	30.6	28.7	30.0	29.2	30.3	30.6
	4H	29.4	30.6	29.8	30.9	31.2	29.4	30.6	29.8	30.9	31.2
	6H	29.9	30.9	30.3	31.3	31.7	29.9	30.9	30.3	31.3	31.7
	8H	30.0	31.1	30.4	31.4	31.9	30.0	31.1	30.4	31.4	31.9
	12H	30.1	31.1	30.6	31.5	32.0	30.1	31.1	30.6	31.5	32.0
4H	2H	27.8	29.0	28.3	29.3	29.7	27.8	29.0	28.3	29.3	29.7
	3H	29.7	30.7	30.1	31.0	31.5	29.7	30.7	30.1	31.0	31.5
	4H	30.4	31.3	30.8	31.7	32.3	30.4	31.3	30.8	31.7	32.3
	6H	30.9	31.8	31.5	32.2	32.6	30.9	31.8	31.5	32.2	32.6
	8H	31.1	31.9	31.7	32.3	32.8	31.1	31.9	31.7	32.3	32.8
	12H	31.3	31.9	31.8	32.4	32.9	31.3	31.9	31.8	32.4	32.9
8H	4H	30.6	31.4	31.2	31.9	32.3	30.6	31.4	31.2	31.9	32.3
	6H	31.4	32.0	31.9	32.5	33.1	31.4	32.0	31.9	32.5	33.1
	8H	31.7	32.2	32.2	32.8	33.5	31.7	32.2	32.2	32.8	33.5
	12H	31.9	32.4	32.5	32.9	33.6	31.9	32.4	32.5	32.9	33.6
12H	4H	30.7	31.3	31.2	31.8	32.3	30.7	31.3	31.2	31.8	32.3
	6H	31.5	32.0	32.0	32.5	33.2	31.5	32.0	32.0	32.5	33.2
	8H	31.8	32.2	32.4	32.8	33.4	31.8	32.2	32.4	32.8	33.4
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		0.4 / -0.4					0.4 / -0.4				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 602 lm total luminous flux											