

Light efficiency:

133 Lumen/Watt

Color temperature:

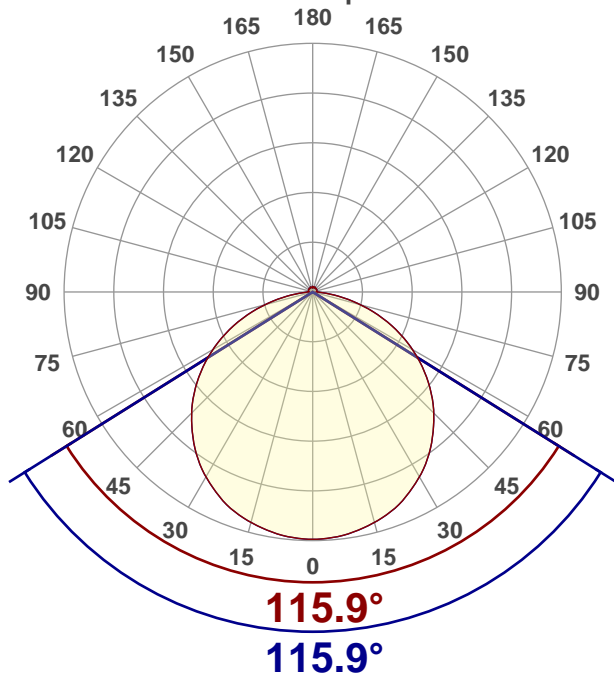
2814 K

Light quality:

CRI:83.9, R_g:87.0, R_f:93.1**P: 3 / V: - / F: -****Output: 574 lm****Peak: 186 cd****Power: 4.3 W****Voltage: 24.0 V****Current: 0.180 A****PF: 1.0****THD: n/a %**

Angular Distribution

0° and 90° plane



Product name:

LED-TP1VH-12-27K

Test Date:

2020-05-04

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

115.9°

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

162.3°

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

177.4°

Beam Details

*measured at centre of beam

Mounting Height (feet)/(meter)	Lux*	Footcandles*	Beam width (feet) / (meter)
4 ft / 1.2 m	125 lx	12 fc	12.8 ft / 3.9 m
8 ft / 2.4 m	31 lx	3 fc	25.6 ft / 7.8 m
12 ft / 3.7 m	14 lx	1 fc	38.3 ft / 11.7 m
16 ft / 4.9 m	8 lx	1 fc	51.1 ft / 15.6 m
20 ft / 6.1 m	5 lx	0 fc	63.9 ft / 19.5 m

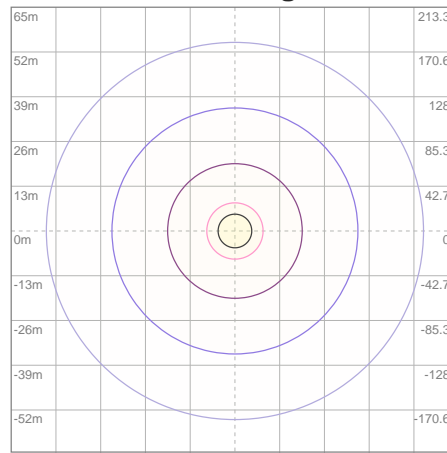
Beam center

Photometric Testing Report

Zonal Lumen Summary

Zone	Lumen	%Luminaire
0-30	146	25.44%
0-40	241	41.99%
0-60	432	75.26%
60-90	121	21.08%
70-100	54.2	9.44%
90-120	10.4	1.81%
0-90	552	96.17%
90-180	21.5	3.75%
0-180	574	100.00%

ISO Lux Diagram



Lux at center:	20 lx
3%	0.60 lx
5%	1.00 lx
10%	2.00 lx
30%	6.00 lx
50%	10.00 lx

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

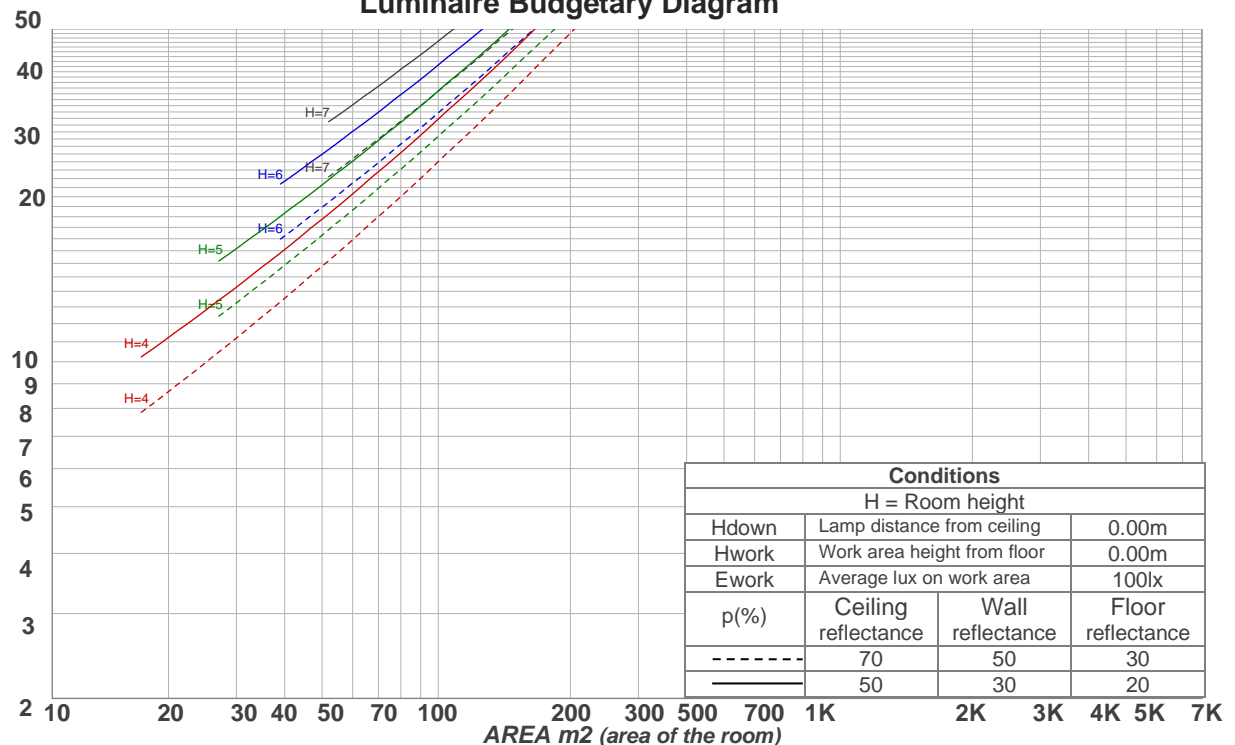
Mounting height: 3.05 meters (10 feet)

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	108	103	99	95	105	100	96	93	95	92	89	91	88	86	87	85	83	80
2	98	89	83	77	95	87	81	76	83	78	73	79	75	71	76	72	69	66
3	89	78	70	64	86	76	69	63	73	66	61	70	64	60	67	62	58	56
4	81	69	60	54	79	68	59	53	65	58	52	62	56	51	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	55	49	44	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	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	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	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)

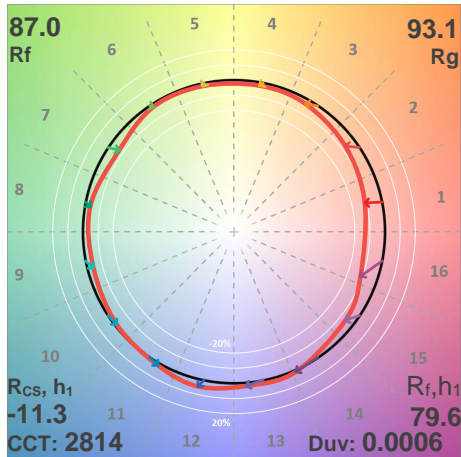
Luminaire Budgetary Diagram



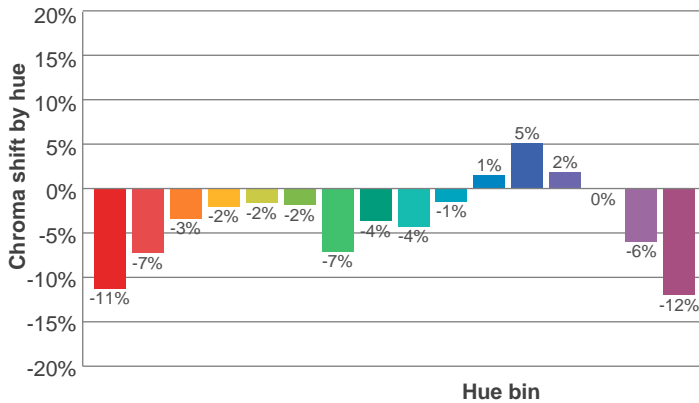
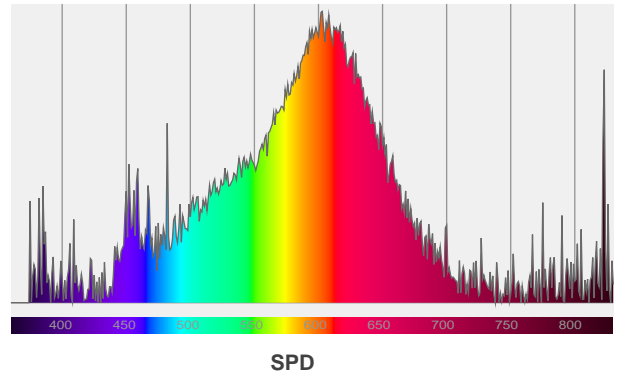
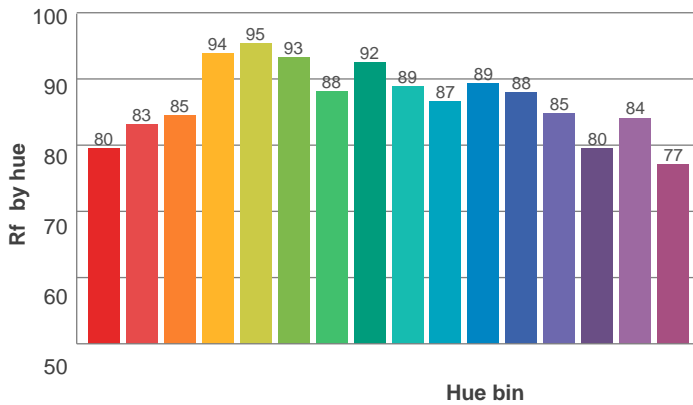
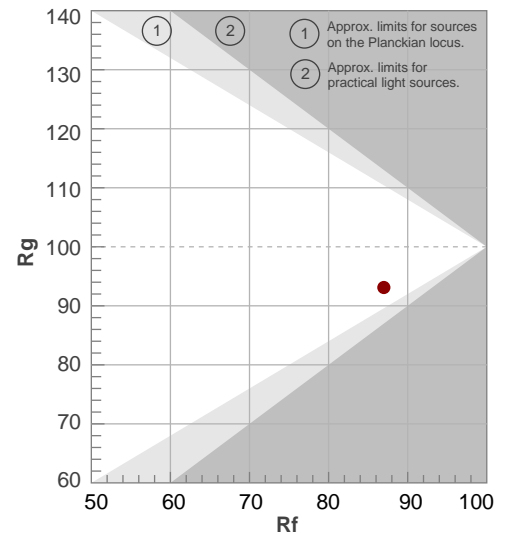
Photometric Testing Report

ANSI/IES TM-30-18

P: 3 / V: - / F: -



Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	80	-11%	2%
2	83	-7%	6%
3	85	-3%	7%
4	94	-2%	2%
5	95	-2%	1%
6	93	-2%	-2%
7	88	-7%	-3%
8	92	-4%	3%
9	89	-4%	5%
10	87	-1%	8%
11	89	1%	8%
12	88	5%	-3%
13	85	2%	-12%
14	80	0%	-17%
15	84	-6%	-8%
16	77	-12%	-13%



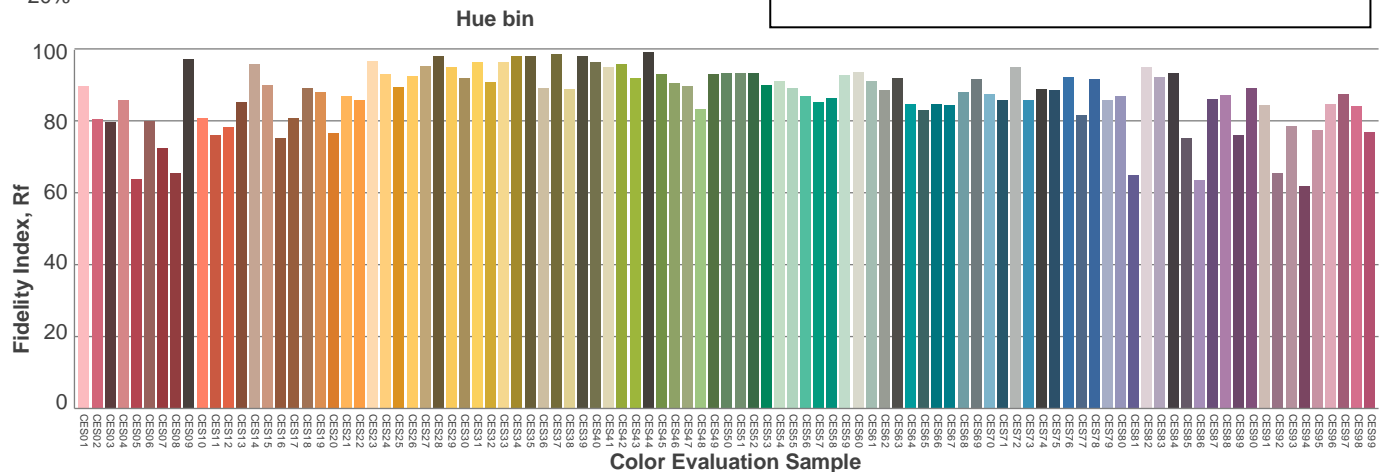
Red: 28.4%, Power=3.7mW

Blue: 8.5%, Power=3.0mW

Green: 23.3%, Power=5.7mW

UVA: 2.1%, Power=4.6mW

Dominant Wavelength: 584nm

1st Peak Wavelength: 603nm2nd Peak Wavelength: 617nm

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	26.9	28.1	27.2	28.5	28.8	26.9	28.1	27.2	28.5	28.8
	3H	28.4	29.7	28.9	30.0	30.3	28.4	29.7	28.9	30.0	30.3
	4H	29.1	30.2	29.5	30.6	30.9	29.1	30.2	29.5	30.6	30.9
	6H	29.6	30.6	29.9	30.9	31.4	29.6	30.6	29.9	30.9	31.4
	8H	29.7	30.7	30.1	31.1	31.6	29.7	30.7	30.1	31.1	31.6
	12H	29.8	30.8	30.2	31.1	31.7	29.8	30.8	30.2	31.1	31.7
4H	2H	27.6	28.7	28.0	29.1	29.4	27.6	28.7	28.0	29.1	29.4
	3H	29.4	30.4	29.8	30.7	31.3	29.4	30.4	29.8	30.7	31.3
	4H	30.0	31.0	30.5	31.4	32.0	30.0	31.0	30.5	31.4	32.0
	6H	30.6	31.4	31.1	31.8	32.3	30.6	31.4	31.1	31.8	32.3
	8H	30.8	31.5	31.3	32.0	32.4	30.8	31.5	31.3	32.0	32.4
	12H	30.9	31.5	31.4	32.0	32.6	30.9	31.5	31.4	32.0	32.6
8H	4H	30.3	31.1	30.9	31.5	32.0	30.3	31.1	30.9	31.5	32.0
	6H	31.0	31.6	31.6	32.1	32.7	31.0	31.6	31.6	32.1	32.7
	8H	31.3	31.8	31.9	32.4	33.1	31.3	31.8	31.9	32.4	33.1
	12H	31.5	31.9	32.1	32.5	33.2	31.5	31.9	32.1	32.5	33.2
12H	4H	30.3	31.0	30.9	31.4	32.0	30.3	31.0	30.9	31.4	32.0
	6H	31.1	31.6	31.7	32.2	32.9	31.1	31.6	31.7	32.2	32.9
	8H	31.4	31.8	32.0	32.4	33.0	31.4	31.8	32.0	32.4	33.0
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 / -0.5					0.4 / -0.5				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 574 lm total luminous flux											