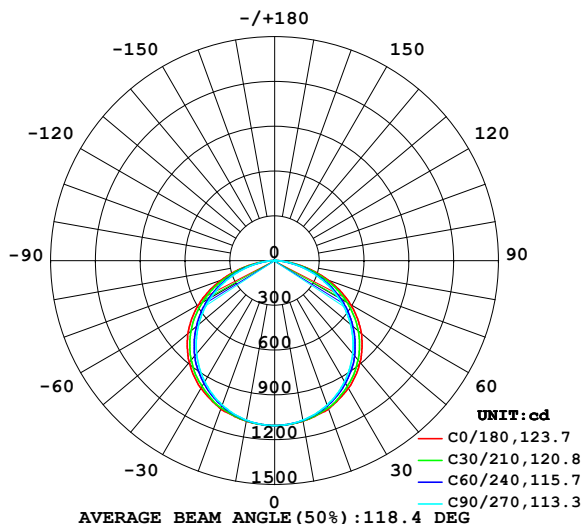


LUMINAIRE PHOTOMETRIC TEST REPORT

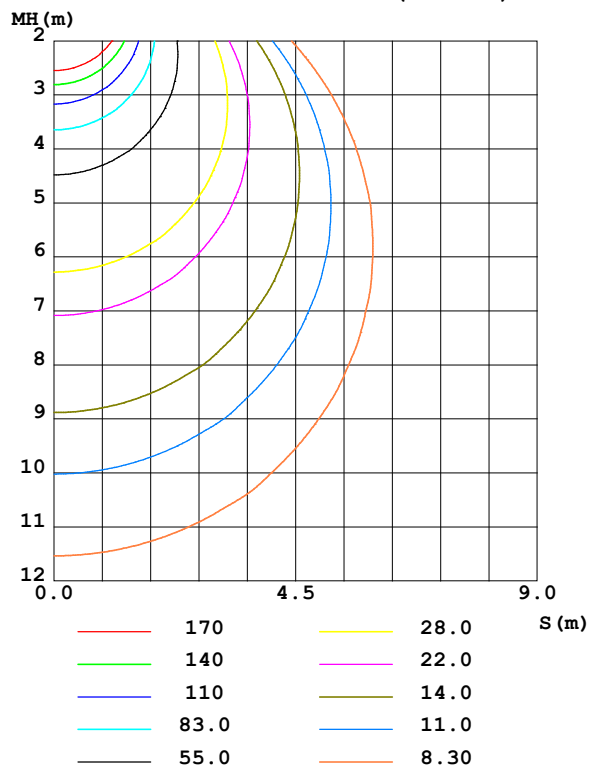
Test:U:120.04V I:0.2379A P:28.326W PF:0.9920 Freq:60.01Hz Lamp Flux:3359.54x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 118.60 lm/W
MODEL		I _{max} (cd)	1105	S/MH(C0/180)	1.33	
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.26	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3359.5	η UP,DN(C0-180)	0.1,49.9	
NOMINAL FLUX(lm)	3359.54	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,49.9	
LAMPS INSIDE	1	η up (%)	0.2	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	120.04	η down (%)	99.8	CIBSE SHR MAX	1.50	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:彭辉林
Test Date:2026-02-09

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:48.4%
Test Distance:1.900m [K=1.0851]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

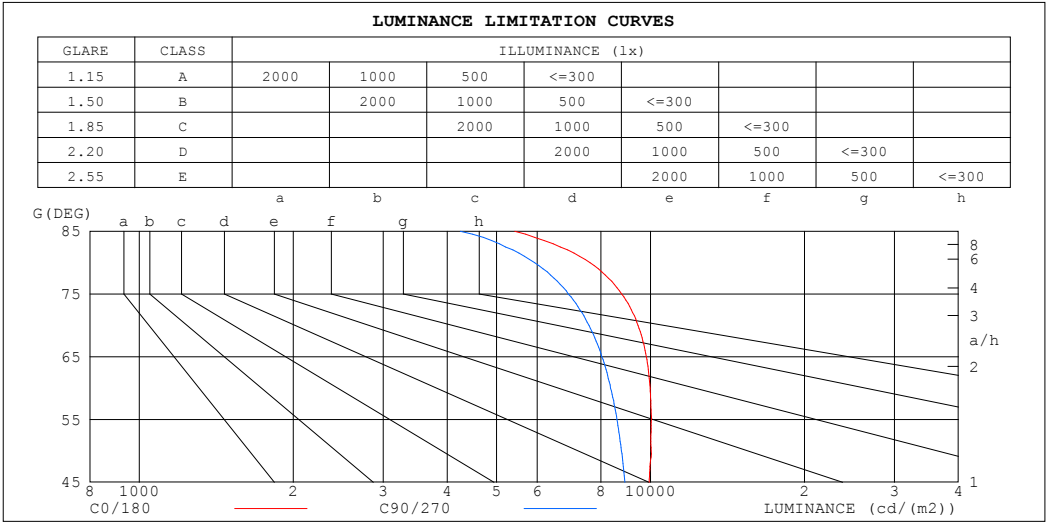
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1092	1089	1086	1089	1092	1089	1086	1089	0- 10	104.7	104.7	3.12,3.12
20	1058	1041	1029	1041	1058	1041	1029	1041	10- 20	302.0	406.6	12.1,12.1
30	987.6	962.4	937.1	962.4	987.6	962.4	937.1	962.4	20- 30	463.8	870.4	25.9,25.9
40	889.7	850.0	813.9	850.0	889.7	850.0	813.9	850.0	30- 40	569.8	1440	42.9,42.9
50	759.9	708.2	664.4	708.2	759.9	708.2	664.4	708.2	40- 50	604.8	2045	60.9,60.9
60	587.9	535.1	492.2	535.1	587.9	535.1	492.2	535.1	50- 60	560.1	2605	77.5,77.5
70	380.7	338.5	305.3	338.5	380.7	338.5	305.3	338.5	60- 70	436.4	3041	90.5,90.5
80	155.8	135.9	121.4	135.9	155.8	135.9	121.4	135.9	70- 80	250.9	3292	98,98
90	1.159	1.536	0.9808	1.536	1.159	1.536	0.9808	1.536	80- 90	60.78	3353	99.8,99.8
100	0.2910	0.5205	0.5841	0.5205	0.2910	0.5205	0.5841	0.5205	90-100	0.4363	3354	99.8,99.8
110	0.4278	0.7057	0.7277	0.7057	0.4278	0.7057	0.7277	0.7057	100-110	0.6058	3354	99.8,99.8
120	0.5416	0.8440	0.8826	0.8440	0.5416	0.8440	0.8826	0.8440	110-120	0.7196	3355	99.9,99.9
130	0.8043	1.060	1.140	1.060	0.8043	1.060	1.140	1.060	120-130	0.7974	3356	99.9,99.9
140	1.255	1.530	1.655	1.530	1.255	1.530	1.655	1.530	130-140	0.9640	3357	99.9,99.9
150	1.759	2.033	2.244	2.033	1.759	2.033	2.244	2.033	140-150	1.103	3358	99.9,99.9
160	1.982	2.165	2.451	2.165	1.982	2.165	2.451	2.165	150-160	0.9850	3359	100,100
170	2.056	2.149	2.329	2.149	2.056	2.149	2.329	2.149	160-170	0.6213	3359	100,100
180	2.082	2.177	2.341	2.177	2.082	2.177	2.341	2.177	170-180	0.2074	3360	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.2℃
 Operators:彭辉林
 Test Date:2026-02-09

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:48.4%
 Test Distance:1.900m [K=1.0851]
 Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000:

LUMINANCE LIMITATION CURVES

Test:U:120.04V I:0.2379A P:28.326W PF:0.9920 Freq:60.01Hz Lamp Flux:3359.54x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5422	4245
80	7616	5934
75	8786	6906
70	9448	7577
65	9812	8035
60	9981	8355
55	10035	8595
50	10035	8773
45	9938	8912

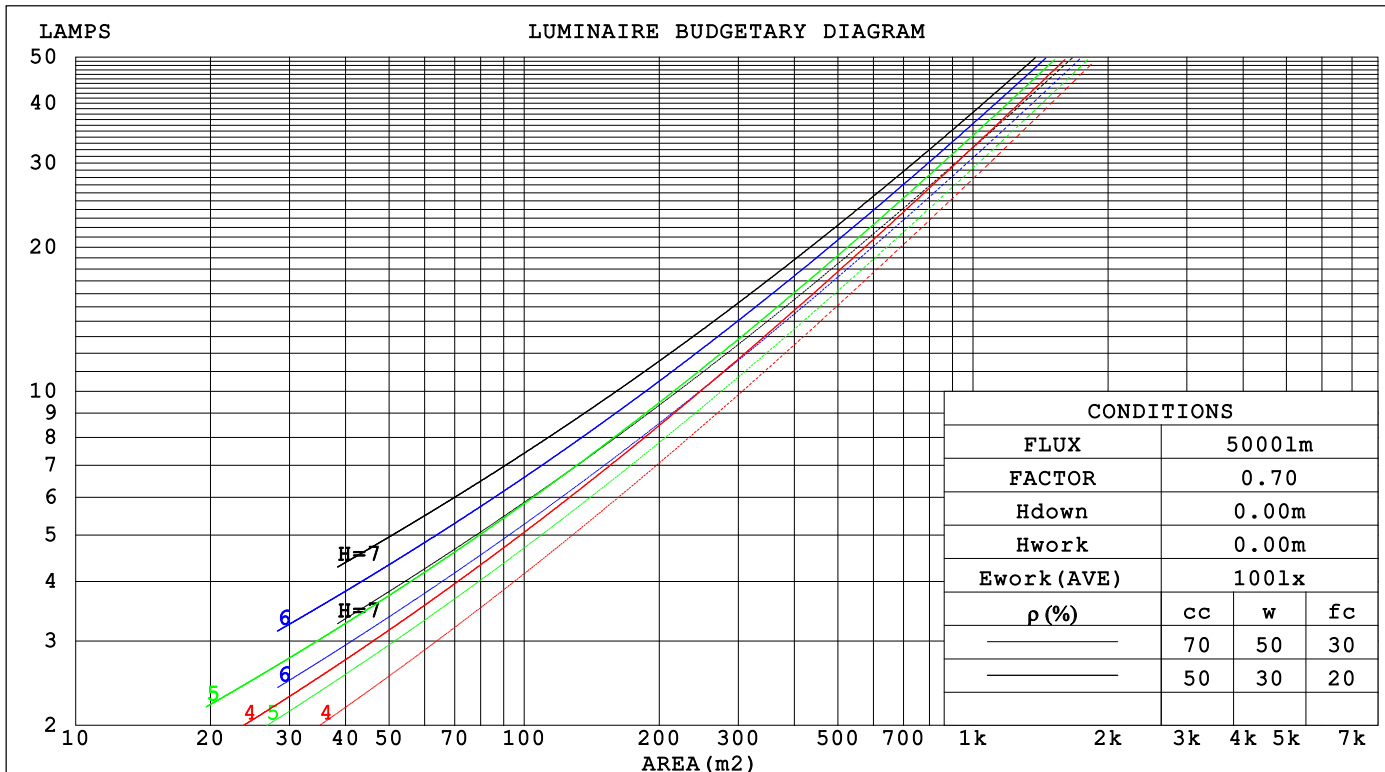
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:彭辉林
Test Date:2026-02-09

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:48.4%
Test Distance:1.900m [K=1.0851]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.04V I:0.2379A P:28.326W PF:0.9920 Freq:60.01Hz Lamp Flux:3359.54x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.84	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.66	.61	.69	.64	.60	.57
4.0	.69	.61	.54	.68	.60	.53	.66	.58	.52	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.37
7.0	.50	.41	.35	.50	.41	.35	.48	.40	.35	.46	.40	.34	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.26
10.0	.39	.31	.25	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:彭辉林
Test Date:2026-02-09

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:48.4%
Test Distance:1.900m [K=1.0851]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000:

WEC AND CCEC

Test:U:120.04V I:0.2379A P:28.326W PF:0.9920 Freq:60.01Hz Lamp Flux:3359.54x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.314	.179	.057	.307	.175	.056	.294	.169	.054	.281	.162	.052	.270	.157	.050		
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.257	.145	.046		
3.0	.274	.146	.044	.268	.144	.043	.258	.140	.042	.248	.136	.042	.239	.132	.041		
4.0	.253	.131	.039	.248	.130	.038	.238	.126	.038	.230	.123	.037	.222	.120	.037		
5.0	.233	.119	.034	.229	.118	.034	.221	.115	.034	.213	.112	.033	.206	.110	.033		
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.192	.101	.030		
7.0	.201	.099	.028	.198	.098	.028	.191	.097	.028	.185	.095	.028	.179	.093	.027		
8.0	.188	.092	.026	.184	.091	.026	.179	.089	.025	.173	.088	.025	.168	.086	.025		
9.0	.176	.085	.024	.173	.084	.024	.168	.083	.023	.163	.082	.023	.158	.080	.023		
10.0	.165	.079	.022	.163	.079	.022	.158	.077	.022	.153	.076	.022	.149	.075	.022		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021		
1.0	.182	.158	.135	.156	.135	.117	.107	.093	.081	.061	.054	.047	.020	.017	.015		
2.0	.174	.133	.099	.149	.115	.086	.102	.079	.060	.059	.046	.035	.019	.015	.011		
3.0	.167	.116	.075	.143	.100	.065	.098	.069	.046	.057	.041	.027	.018	.013	.009		
4.0	.159	.103	.059	.137	.089	.052	.094	.062	.036	.054	.036	.021	.017	.012	.007		
5.0	.152	.092	.048	.130	.080	.042	.090	.056	.030	.052	.033	.018	.017	.011	.006		
6.0	.145	.084	.040	.124	.073	.035	.086	.051	.025	.050	.030	.015	.016	.010	.005		
7.0	.138	.077	.034	.119	.067	.030	.082	.047	.021	.048	.028	.013	.015	.009	.004		
8.0	.131	.071	.030	.113	.062	.026	.078	.043	.019	.045	.026	.011	.015	.008	.004		
9.0	.125	.066	.027	.108	.058	.023	.075	.040	.016	.044	.024	.010	.014	.008	.003		
10.0	.119	.062	.024	.103	.054	.021	.071	.038	.015	.042	.022	.009	.014	.007	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:彭辉林
Test Date:2026-02-09

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:48.4%
Test Distance:1.900m [K=1.0851]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

UGR(Unified Glare Rating) Table

Test:U:120.04V I:0.2379A P:28.326W PF:0.9920 Freq:60.01Hz Lamp Flux:3359.54x1 lm										
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ETi Solid State lighting, Inc.					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	21.1	22.6	21.4	22.8	23.1	20.3	21.9	20.6	22.1	22.3
3H	22.8	24.2	23.1	24.5	24.7	21.8	23.2	22.1	23.5	23.7
4H	23.5	24.8	23.8	25.1	25.3	22.4	23.7	22.7	24.0	24.2
6H	23.9	25.2	24.3	25.5	25.8	22.8	24.0	23.1	24.3	24.6
8H	24.1	25.3	24.4	25.6	25.9	22.9	24.1	23.2	24.4	24.7
12H	24.1	25.3	24.5	25.6	25.9	22.9	24.1	23.3	24.4	24.7
4H 2H	21.6	23.0	22.0	23.3	23.5	21.0	22.4	21.4	22.7	22.9
3H	23.5	24.7	23.9	25.0	25.3	22.7	23.9	23.1	24.2	24.5
4H	24.3	25.4	24.7	25.7	26.1	23.4	24.5	23.8	24.8	25.1
6H	24.9	25.9	25.3	26.2	26.6	23.9	24.8	24.3	25.2	25.6
8H	25.1	26.0	25.5	26.4	26.8	24.0	24.9	24.4	25.3	25.7
12H	25.2	26.0	25.6	26.4	26.8	24.1	24.9	24.5	25.3	25.7
8H 4H	24.5	25.4	25.0	25.8	26.2	23.7	24.6	24.1	25.0	25.4
6H	25.3	26.0	25.7	26.4	26.9	24.3	25.1	24.8	25.5	25.9
8H	25.5	26.2	26.0	26.6	27.1	24.5	25.2	25.0	25.6	26.1
12H	25.7	26.2	26.2	26.7	27.2	24.7	25.2	25.2	25.7	26.2
12H 4H	24.5	25.4	25.0	25.8	26.2	23.7	24.5	24.2	24.9	25.3
6H	25.3	26.0	25.8	26.4	26.9	24.4	25.1	24.9	25.5	25.9
8H	25.6	26.2	26.1	26.6	27.1	24.6	25.2	25.1	25.7	26.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 3360 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.2)
Area: 0.11781 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:彭辉林
Test Date:2026-02-09

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:48.4%
Test Distance:1.900m [K=1.0851]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

UTILIZATION FACTORS TABLE

Test:U:120.04V I:0.2379A P:28.326W PF:0.9920 Freq:60.01Hz Lamp Flux:3359.54x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

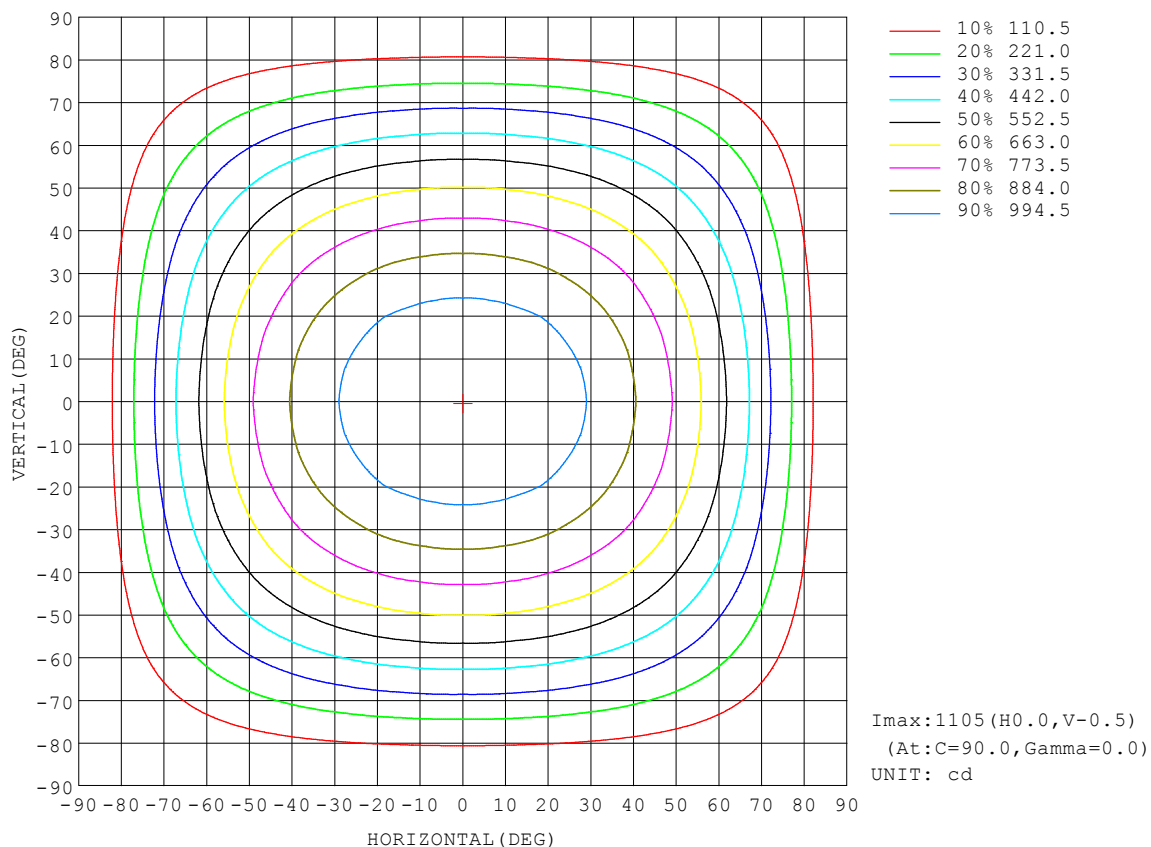
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	44	38	55	44	37	31
0.80	67	55	47	66	54	47	64	53	47	40
1.00	75	64	56	74	63	56	72	65	55	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	75	68	61
2.00	94	86	79	92	84	78	89	82	77	69
2.50	98	90	84	96	89	83	92	86	81	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	103	99	106	102	98	101	98	95	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.2°C
Operators: 彭辉林
Test Date: 2026-02-09

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 48.4%
Test Distance: 1.900m [K=1.0851]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

ISOCANDELA DIAGRAM

Test:U:120.04V I:0.2379A P:28.326W PF:0.9920 Freq:60.01Hz Lamp Flux:3359.54x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

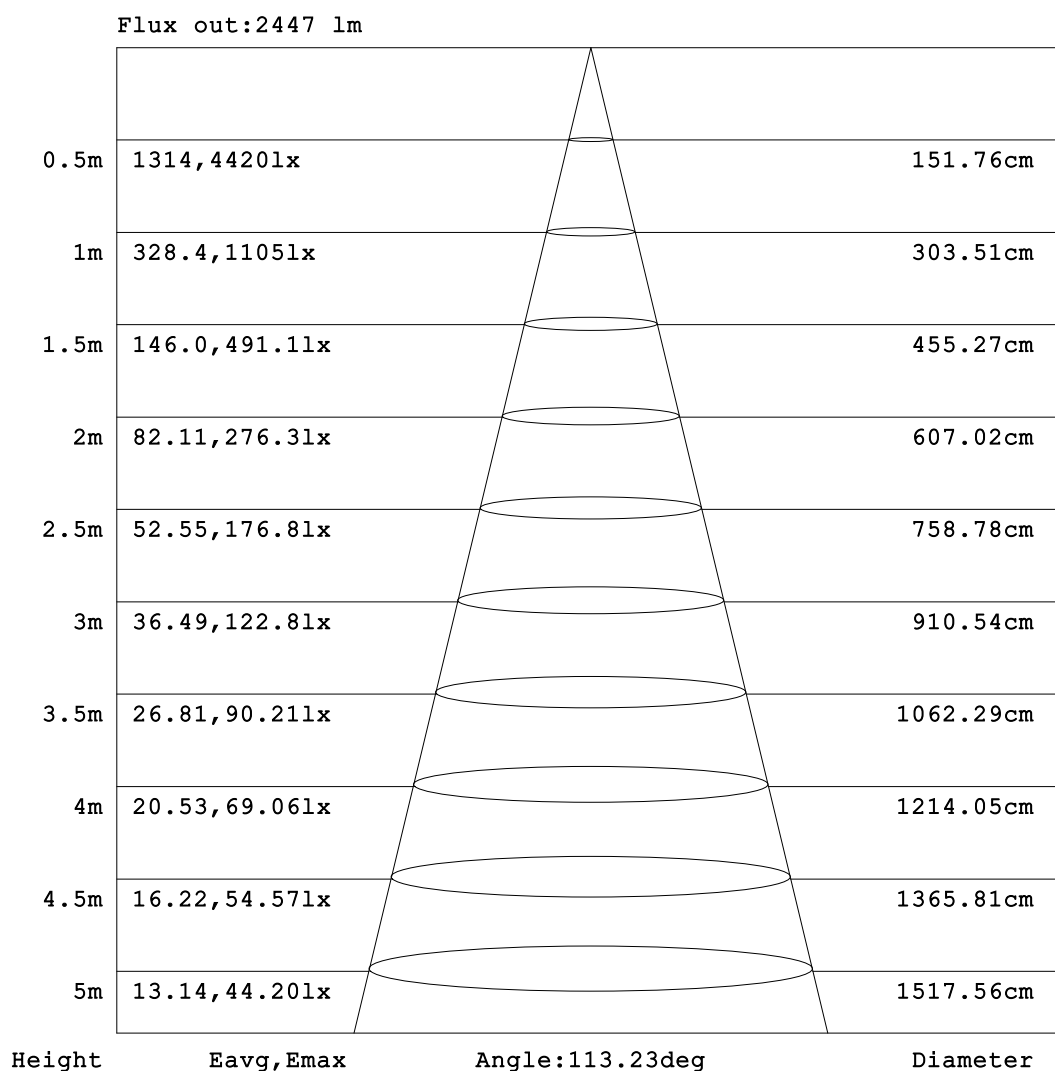


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:彭辉林
Test Date:2026-02-09

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:48.4%
Test Distance:1.900m [K=1.0851]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000:

AAI Figure

Test:U:120.04V I:0.2379A P:28.326W PF:0.9920 Freq:60.01Hz Lamp Flux:3359.54x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



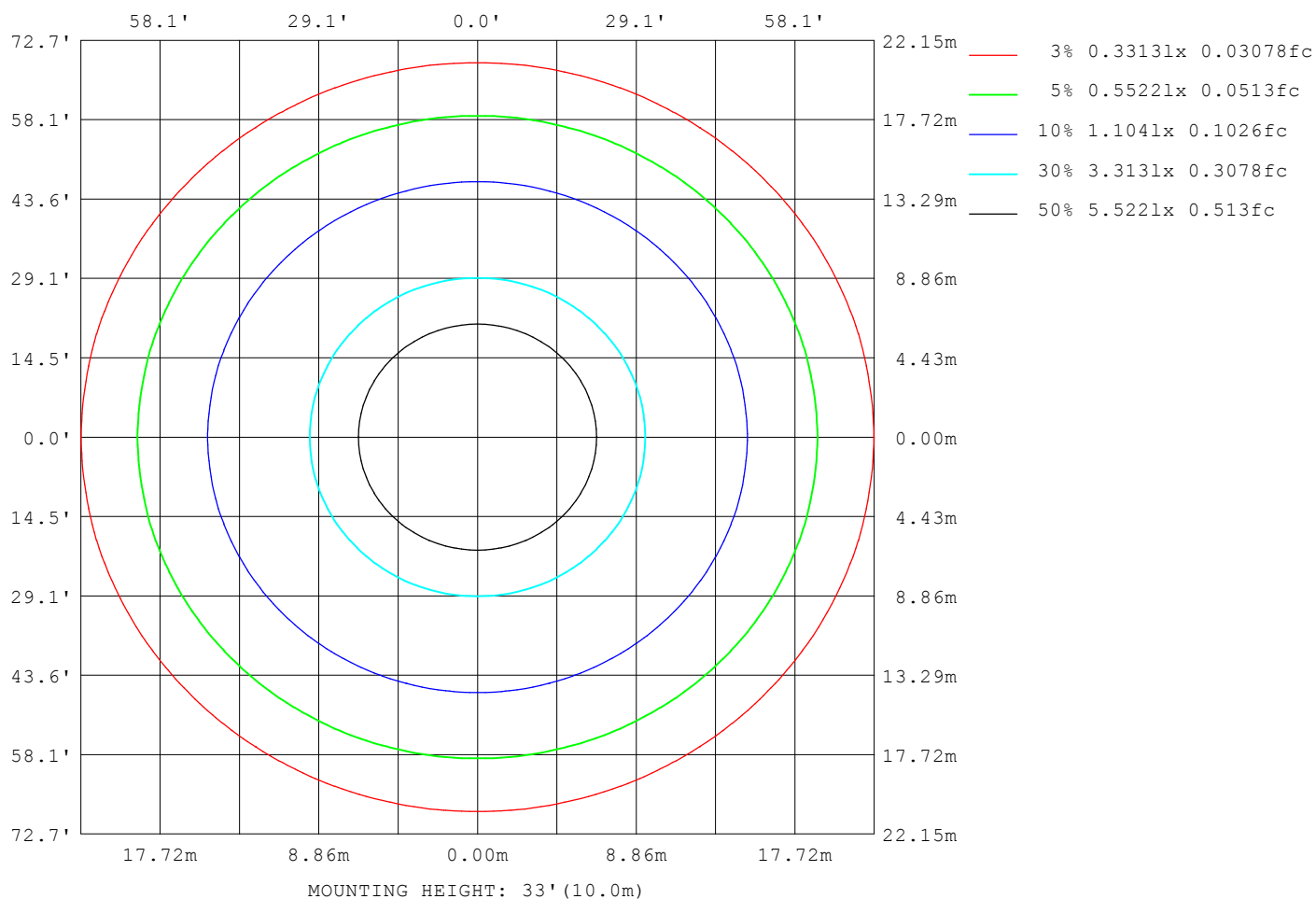
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2°C
Operators:彭辉林
Test Date:2026-02-09

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:48.4%
Test Distance:1.900m [K=1.0851]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

ISOLUX DIAGRAM

Test:U:120.04V I:0.2379A P:28.326W PF:0.9920 Freq:60.01Hz Lamp Flux:3359.54x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.2°C
Operators: 彭辉林
Test Date: 2026-02-09

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 48.4%
Test Distance: 1.900m [K=1.0851]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

LED Avg.L Report

Test:U:120.04V I:0.2379A P:28.326W PF:0.9920 Freq:60.01Hz Lamp Flux:3359.54x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

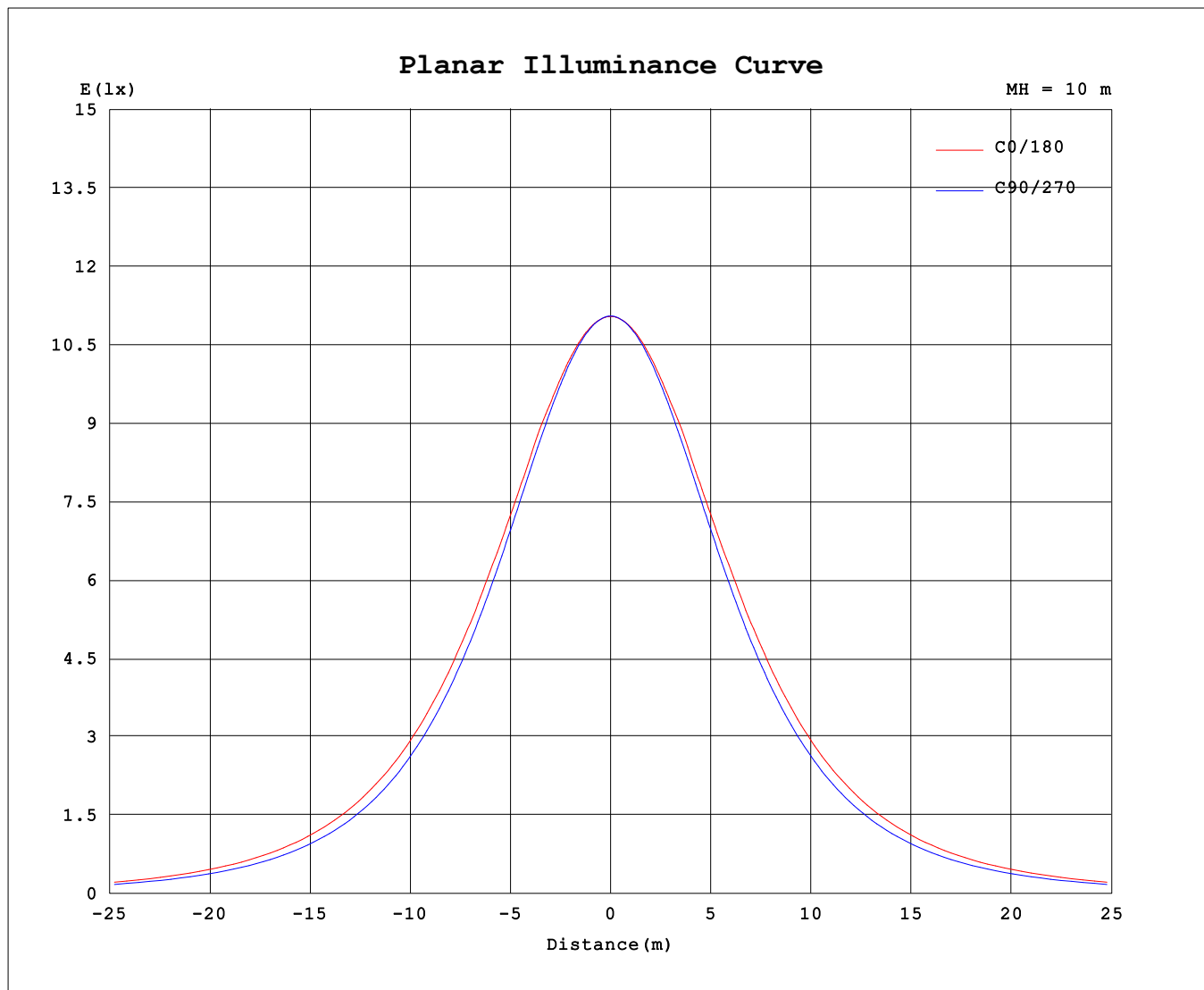
AvgL	cd/m2
L_0~180 (65) av	9812
L_0~180 (75) av	8786
L_0~180 (85) av	5422
L_90~270 (65) av	8035
L_90~270 (75) av	6906
L_90~270 (85) av	4245
L_45 (65) av	8818
L_45 (75) av	7714
L_45 (85) av	4794

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.2℃
 Operators:彭辉林
 Test Date:2026-02-09

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:48.4%
 Test Distance:1.900m [K=1.0851]
 Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.2°C
Operators: 彭辉林
Test Date: 2026-02-09

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 48.4%
Test Distance: 1.900m [K=1.0851]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.04V I:0.2379A P:28.326W PF:0.9920 Freq:60.01Hz Lamp Flux:3359.54x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1104	1104	1105	1105	1105	1105	1105	1105	1105	1105	1105	1104	1104	1104	1105	1105	1105	1105	1105
5	1101	1101	1101	1101	1100	1100	1100	1100	1100	1101	1101	1101	1101	1101	1101	1101	1100	1100	1100
10	1092	1091	1090	1089	1087	1086	1086	1086	1087	1089	1090	1091	1092	1091	1090	1089	1087	1086	1086
15	1076	1075	1072	1069	1065	1063	1062	1063	1065	1069	1072	1075	1076	1075	1072	1069	1065	1063	1062
20	1058	1055	1049	1041	1035	1031	1029	1031	1035	1041	1049	1055	1058	1055	1049	1041	1035	1031	1029
25	1023	1021	1015	1007	996	989	987	989	996	1007	1015	1021	1023	1021	1015	1007	996	989	987
30	988	984	974	962	949	940	937	940	949	962	974	984	988	984	974	962	949	940	937
35	942	938	927	909	895	883	879	883	895	909	927	938	942	938	927	909	895	883	879
40	890	884	870	850	834	819	814	819	834	850	870	884	890	884	870	850	834	819	814
45	828	821	805	783	762	747	742	747	762	783	805	821	828	821	805	783	762	747	742
50	760	752	731	708	685	670	664	670	685	708	731	752	760	752	731	708	685	670	664
55	678	671	651	625	602	586	581	586	602	625	651	671	678	671	651	625	602	586	581
60	588	580	560	535	513	497	492	497	513	535	560	580	588	580	560	535	513	497	492
65	489	482	462	439	419	405	400	405	419	439	462	482	489	482	462	439	419	405	400
70	381	375	358	338	321	309	305	309	321	338	358	375	381	375	358	338	321	309	305
75	268	263	250	235	222	214	211	214	222	235	250	263	268	263	250	235	222	214	211
80	156	153	145	136	128	123	121	123	128	136	145	153	156	153	145	136	128	123	121
85	55.7	55.1	52.1	49.2	46.3	44.3	43.6	44.3	46.3	49.2	52.1	55.1	55.7	55.1	52.1	49.2	46.3	44.3	43.6
90	1.16	1.90	1.45	1.54	1.20	1.31	0.98	1.31	1.20	1.54	1.45	1.90	1.16	1.90	1.45	1.54	1.20	1.31	0.98
95	0.16	0.19	0.32	0.40	0.42	0.43	0.45	0.43	0.42	0.40	0.32	0.19	0.16	0.19	0.32	0.40	0.42	0.43	0.45
100	0.29	0.35	0.49	0.52	0.55	0.56	0.58	0.56	0.55	0.52	0.49	0.35	0.29	0.35	0.49	0.52	0.55	0.56	0.58
105	0.37	0.43	0.59	0.63	0.64	0.64	0.66	0.64	0.64	0.63	0.59	0.43	0.37	0.43	0.59	0.63	0.64	0.64	0.66
110	0.43	0.51	0.67	0.71	0.73	0.73	0.73	0.73	0.73	0.71	0.67	0.51	0.43	0.51	0.67	0.71	0.73	0.73	0.73
115	0.47	0.58	0.73	0.78	0.81	0.82	0.82	0.82	0.81	0.78	0.73	0.58	0.47	0.58	0.73	0.78	0.81	0.82	0.82
120	0.54	0.64	0.78	0.84	0.88	0.89	0.88	0.89	0.88	0.84	0.78	0.64	0.54	0.64	0.78	0.84	0.88	0.89	0.88
125	0.64	0.77	0.86	0.90	0.96	0.98	0.96	0.98	0.96	0.90	0.86	0.77	0.64	0.77	0.86	0.90	0.96	0.98	0.96
130	0.80	0.92	1.02	1.06	1.12	1.16	1.14	1.16	1.12	1.06	1.02	0.92	0.80	0.92	1.02	1.06	1.12	1.16	1.14
135	1.00	1.09	1.22	1.26	1.30	1.37	1.36	1.37	1.30	1.26	1.22	1.09	1.00	1.09	1.22	1.26	1.30	1.37	1.36
140	1.26	1.32	1.48	1.53	1.57	1.64	1.66	1.64	1.57	1.53	1.48	1.32	1.26	1.32	1.48	1.53	1.57	1.64	1.66
145	1.53	1.58	1.71	1.82	1.91	1.95	1.98	1.95	1.91	1.82	1.71	1.58	1.53	1.58	1.71	1.82	1.91	1.95	1.98
150	1.76	1.78	1.90	2.03	2.13	2.19	2.24	2.19	2.13	2.03	1.90	1.78	1.76	1.78	1.90	2.03	2.13	2.19	2.24
155	1.91	1.93	2.02	2.16	2.27	2.34	2.41	2.34	2.27	2.16	2.02	1.93	1.91	1.93	2.02	2.16	2.27	2.34	2.41
160	1.98	2.01	2.07	2.17	2.30	2.41	2.45	2.41	2.30	2.17	2.07	2.01	1.98	2.01	2.07	2.17	2.30	2.41	2.45
165	2.02	2.05	2.08	2.15	2.27	2.37	2.40	2.37	2.27	2.15	2.08	2.05	2.02	2.05	2.08	2.15	2.27	2.37	2.40
170	2.06	2.08	2.10	2.15	2.23	2.31	2.33	2.31	2.23	2.15	2.10	2.08	2.06	2.08	2.10	2.15	2.23	2.31	2.33
175	2.06	2.09	2.11	2.15	2.21	2.27	2.28	2.27	2.21	2.15	2.11	2.09	2.06	2.09	2.11	2.15	2.21	2.27	2.28
180	2.08	2.11	2.14	2.18	2.23	2.30	2.34	2.30	2.23	2.18	2.14	2.11	2.08	2.11	2.14	2.18	2.23	2.30	2.34

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:彭辉林
Test Date:2026-02-09

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:48.4%
Test Distance:1.900m [K=1.0851]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.04V I:0.2379A P:28.326W PF:0.9920 Freq:60.01Hz Lamp Flux:3359.54x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345													
0	1105	1105	1105	1105	1104													
5	1100	1100	1101	1101	1101													
10	1086	1087	1089	1090	1091													
15	1063	1065	1069	1072	1075													
20	1031	1035	1041	1049	1055													
25	989	996	1007	1015	1021													
30	940	949	962	974	984													
35	883	895	909	927	938													
40	819	834	850	870	884													
45	747	762	783	805	821													
50	670	685	708	731	752													
55	586	602	625	651	671													
60	497	513	535	560	580													
65	405	419	439	462	482													
70	309	321	338	358	375													
75	214	222	235	250	263													
80	123	128	136	145	153													
85	44.3	46.3	49.2	52.1	55.1													
90	1.31	1.20	1.54	1.45	1.90													
95	0.43	0.42	0.40	0.32	0.19													
100	0.56	0.55	0.52	0.49	0.35													
105	0.64	0.64	0.63	0.59	0.43													
110	0.73	0.73	0.71	0.67	0.51													
115	0.82	0.81	0.78	0.73	0.58													
120	0.89	0.88	0.84	0.78	0.64													
125	0.98	0.96	0.90	0.86	0.77													
130	1.16	1.12	1.06	1.02	0.92													
135	1.37	1.30	1.26	1.22	1.09													
140	1.64	1.57	1.53	1.48	1.32													
145	1.95	1.91	1.82	1.71	1.58													
150	2.19	2.13	2.03	1.90	1.78													
155	2.34	2.27	2.16	2.02	1.93													
160	2.41	2.30	2.17	2.07	2.01													
165	2.37	2.27	2.15	2.08	2.05													
170	2.31	2.23	2.15	2.10	2.08													
175	2.27	2.21	2.15	2.11	2.09													
180	2.30	2.23	2.18	2.14	2.11													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:彭辉林
Test Date:2026-02-09

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:48.4%
Test Distance:1.900m [K=1.0851]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000: