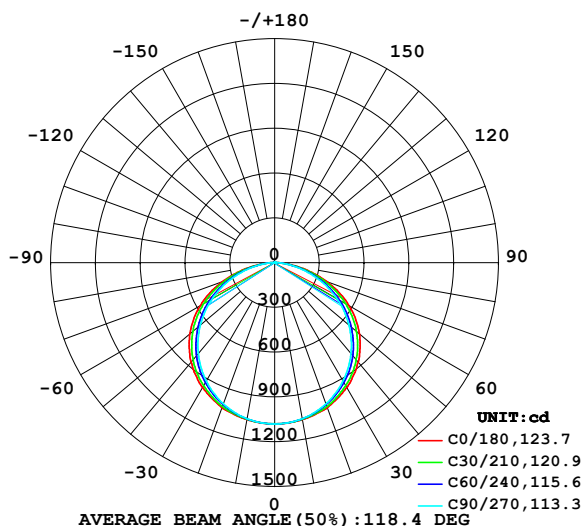


LUMINAIRE PHOTOMETRIC TEST REPORT

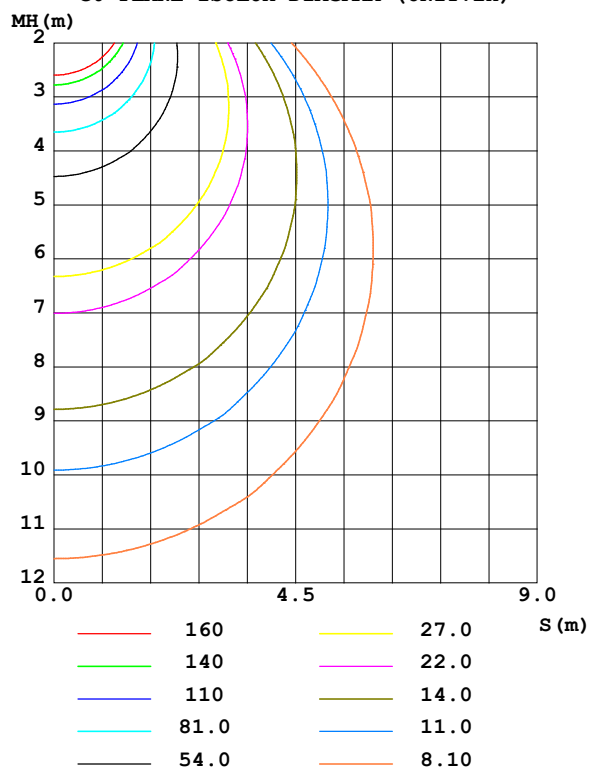
Test:U:120.03V I:0.2406A P:28.658W PF:0.9922 Freq:60.01Hz Lamp Flux:3288.48x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 114.75 lm/W
MODEL		I _{max} (cd)	1081	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)	3288.5	η UP,DN(C0-180)	0.1,49.9	
NOMINAL FLUX(lm)	3288.48	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)	120.014	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%_2700K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

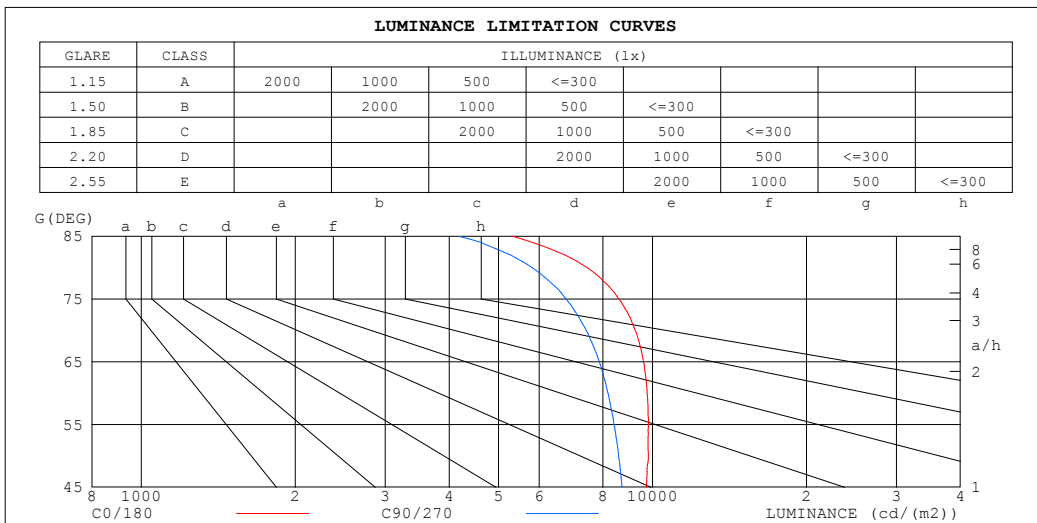
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1068	1065	1062	1065	1068	1065	1062	1065	0- 10	102.4	102.4	3.11,3.11
20	1035	1018	1006	1018	1035	1018	1006	1018	10- 20	295.3	397.7	12.1,12.1
30	966.1	940.9	916.8	940.9	966.1	940.9	916.8	940.9	20- 30	453.5	851.1	25.9,25.9
40	870.4	831.8	796.4	831.8	870.4	831.8	796.4	831.8	30- 40	557.2	1408	42.8,42.8
50	743.6	692.5	650.1	692.5	743.6	692.5	650.1	692.5	40- 50	591.4	2000	60.8,60.8
60	575.0	523.6	481.9	523.6	575.0	523.6	481.9	523.6	50- 60	547.8	2548	77.5,77.5
70	372.7	331.1	298.7	331.1	372.7	331.1	298.7	331.1	60- 70	427.0	2975	90.5,90.5
80	152.3	133.9	118.9	133.9	152.3	133.9	118.9	133.9	70- 80	246.0	3221	97.9,97.9
90	1.159	3.896	0.5845	3.896	1.159	3.896	0.5845	3.896	80- 90	61.32	3282	99.8,99.8
100	0.2849	0.4947	0.5617	0.4947	0.2849	0.4947	0.5617	0.4947	90-100	0.7054	3283	99.8,99.8
110	0.4191	0.6885	0.7100	0.6885	0.4191	0.6885	0.7100	0.6885	100-110	0.5872	3283	99.8,99.8
120	0.5308	0.8285	0.8641	0.8285	0.5308	0.8285	0.8641	0.8285	110-120	0.7065	3284	99.9,99.9
130	0.7867	1.024	1.107	1.024	0.7867	1.024	1.107	1.024	120-130	0.7774	3285	99.9,99.9
140	1.228	1.479	1.605	1.479	1.228	1.479	1.605	1.479	130-140	0.9317	3286	99.9,99.9
150	1.722	1.975	2.183	1.975	1.722	1.975	2.183	1.975	140-150	1.069	3287	99.9,99.9
160	1.942	2.135	2.405	2.135	1.942	2.135	2.405	2.135	150-160	0.9617	3288	100,100
170	2.015	2.132	2.290	2.132	2.015	2.132	2.290	2.132	160-170	0.6131	3288	100,100
180	2.041	2.129	2.291	2.129	2.041	2.129	2.291	2.129	170-180	0.2049	3288	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%_2700:

LUMINANCE LIMITATION CURVES

Test:U:120.03V I:0.2406A P:28.658W PF:0.9922 Freq:60.01Hz Lamp Flux:3288.48x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	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	5322	4182
80	7447	5812
75	8598	6777
70	9250	7414
65	9601	7866
60	9762	8181
55	9819	8413
50	9820	8585
45	9723	8719

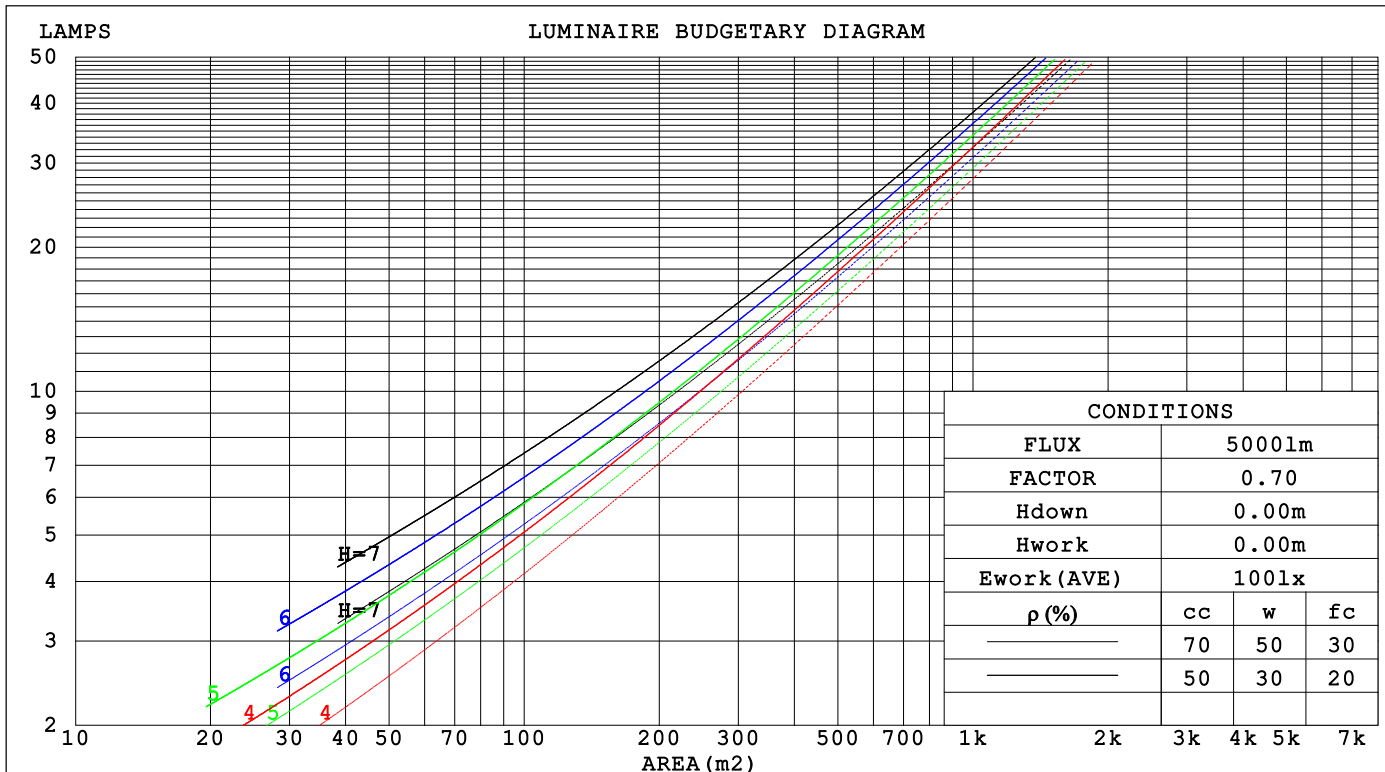
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.2°C
Operators: 彭辉林
Test Date: 2026-02-09

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%_2700K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.03V I:0.2406A P:28.658W PF:0.9922 Freq:60.01Hz Lamp Flux:3288.48x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	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	.76	.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	.60	.54	.68	.60	.53	.66	.58	.52	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.46	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.37
7.0	.50	.41	.35	.49	.41	.35	.48	.40	.35	.46	.40	.34	.45	.39	.34	.32
8.0	.46	.37	.31	.45	.37	.31	.44	.36	.31	.42	.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	.30	.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%_2700K

WEC AND CCEC

Test:U:120.03V I:0.2406A P:28.658W PF:0.9922 Freq:60.01Hz Lamp Flux:3288.48x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	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	.315	.179	.057	.308	.176	.056	.294	.169	.054	.282	.163	.052	.271	.157	.051		
2.0	.297	.163	.050	.290	.160	.049	.278	.155	.048	.268	.150	.047	.257	.146	.046		
3.0	.274	.146	.044	.269	.144	.043	.258	.140	.043	.248	.136	.042	.239	.133	.041		
4.0	.253	.131	.039	.248	.130	.038	.239	.127	.038	.230	.123	.037	.222	.121	.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	.185	.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	.046	.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%_2700K

UGR(Unified Glare Rating) Table

Test:U:120.03V I:0.2406A P:28.658W PF:0.9922 Freq:60.01Hz Lamp Flux:3288.48x1 lm										
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K					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	21.0	22.6	21.3	22.8	23.0	20.2	21.8	20.5	22.0	22.2
3H	22.7	24.1	23.0	24.4	24.6	21.7	23.1	22.0	23.4	23.6
4H	23.4	24.8	23.7	25.0	25.3	22.3	23.7	22.6	23.9	24.2
6H	23.9	25.1	24.2	25.4	25.7	22.7	24.0	23.0	24.2	24.5
8H	24.0	25.2	24.3	25.5	25.8	22.8	24.0	23.1	24.3	24.6
12H	24.0	25.2	24.4	25.5	25.8	22.8	24.0	23.2	24.3	24.6
4H 2H	21.6	22.9	21.9	23.2	23.4	21.0	22.3	21.3	22.6	22.8
3H	23.5	24.6	23.8	24.9	25.3	22.6	23.8	23.0	24.1	24.4
4H	24.3	25.3	24.6	25.7	26.0	23.3	24.4	23.7	24.7	25.1
6H	24.8	25.8	25.2	26.2	26.5	23.8	24.8	24.2	25.1	25.5
8H	25.0	25.9	25.4	26.3	26.7	23.9	24.8	24.4	25.2	25.6
12H	25.1	25.9	25.6	26.3	26.7	24.0	24.8	24.5	25.2	25.6
8H 4H	24.5	25.4	24.9	25.7	26.1	23.6	24.5	24.0	24.9	25.3
6H	25.2	25.9	25.6	26.4	26.8	24.3	25.0	24.7	25.4	25.9
8H	25.5	26.1	25.9	26.6	27.0	24.5	25.1	24.9	25.6	26.0
12H	25.6	26.2	26.1	26.6	27.1	24.6	25.2	25.1	25.6	26.1
12H 4H	24.5	25.3	24.9	25.7	26.1	23.7	24.5	24.1	24.9	25.3
6H	25.2	25.9	25.7	26.3	26.8	24.3	25.0	24.8	25.4	25.9
8H	25.5	26.1	26.0	26.5	27.0	24.6	25.2	25.1	25.6	26.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 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, 3288 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.1)
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%_2700K

UTILIZATION FACTORS TABLE

Test:U:120.03V I:0.2406A P:28.658W PF:0.9922 Freq:60.01Hz Lamp Flux:3288.48x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

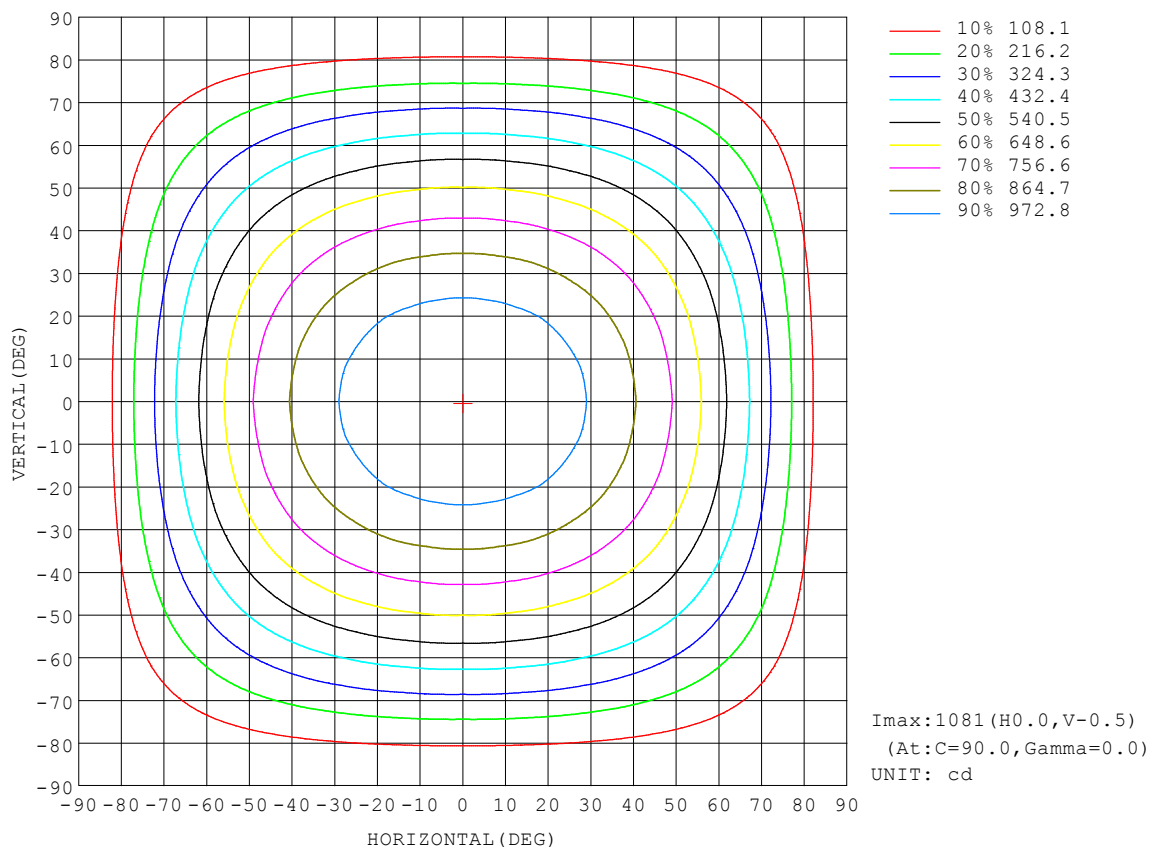
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	44	37	55	44	37	31
0.80	67	55	47	65	54	47	64	53	47	40
1.00	75	64	56	74	63	56	72	65	55	48
1.25	82	71	64	81	71	64	78	69	63	55
1.50	87	77	70	86	76	70	83	74	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	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	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%_2700K

ISOCANDELA DIAGRAM

Test:U:120.03V I:0.2406A P:28.658W PF:0.9922 Freq:60.01Hz Lamp Flux:3288.48x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

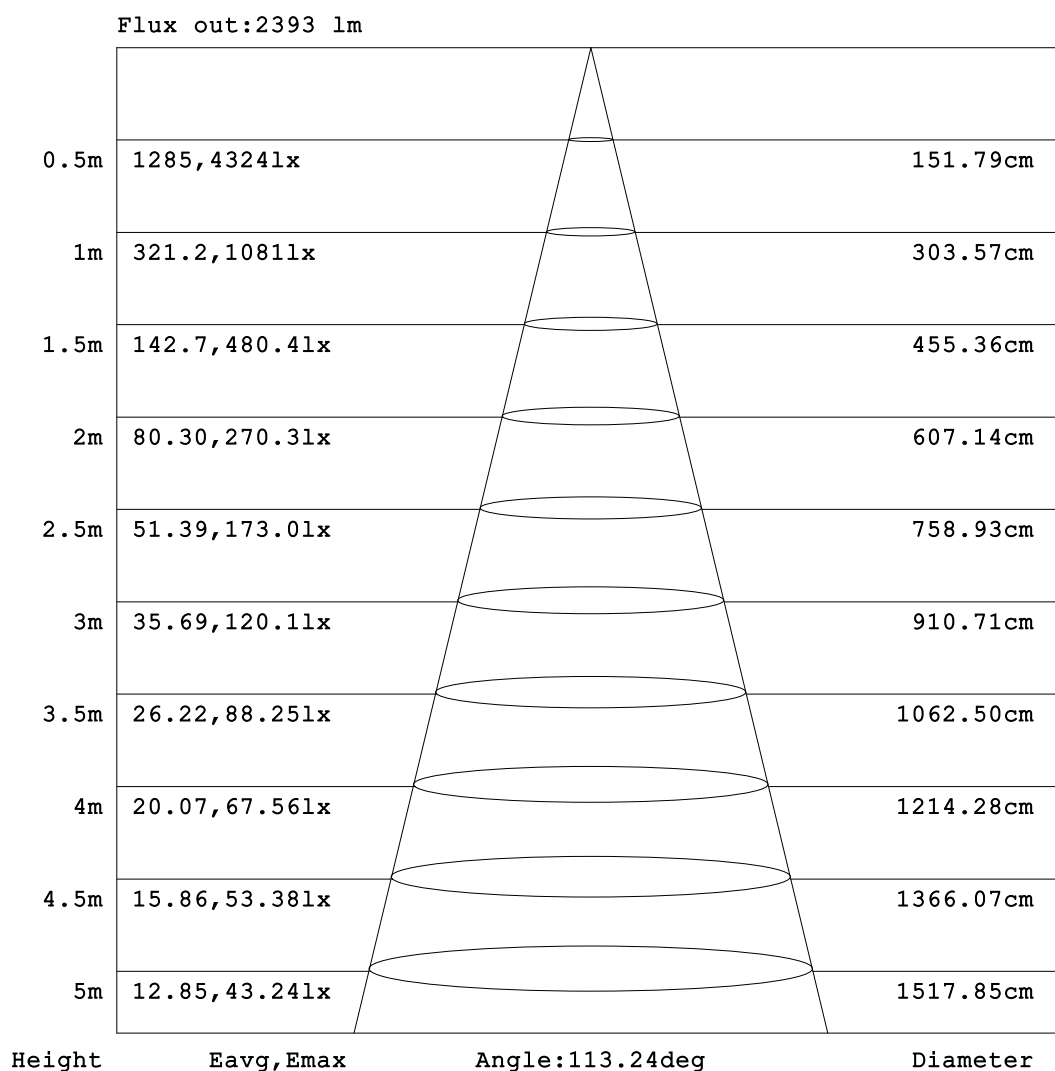


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:彭辉林
Test Date:2026-02-09

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%_2700K

AAI Figure

Test:U:120.03V I:0.2406A P:28.658W PF:0.9922 Freq:60.01Hz Lamp Flux:3288.48x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



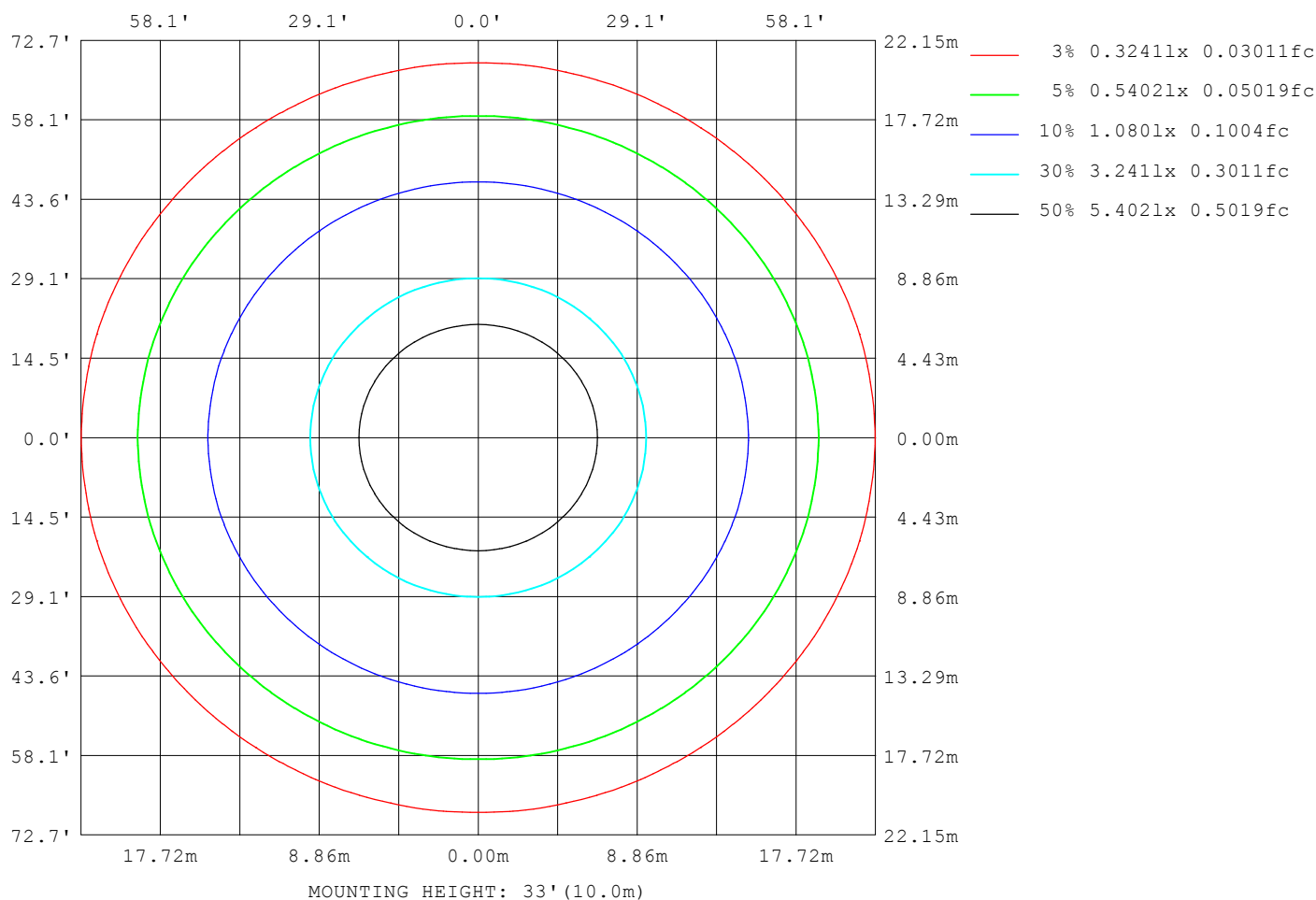
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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%_2700K

ISOLUX DIAGRAM

Test:U:120.03V I:0.2406A P:28.658W PF:0.9922 Freq:60.01Hz Lamp Flux:3288.48x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	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%_2700K

LED Avg.L Report

Test:U:120.03V I:0.2406A P:28.658W PF:0.9922 Freq:60.01Hz Lamp Flux:3288.48x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

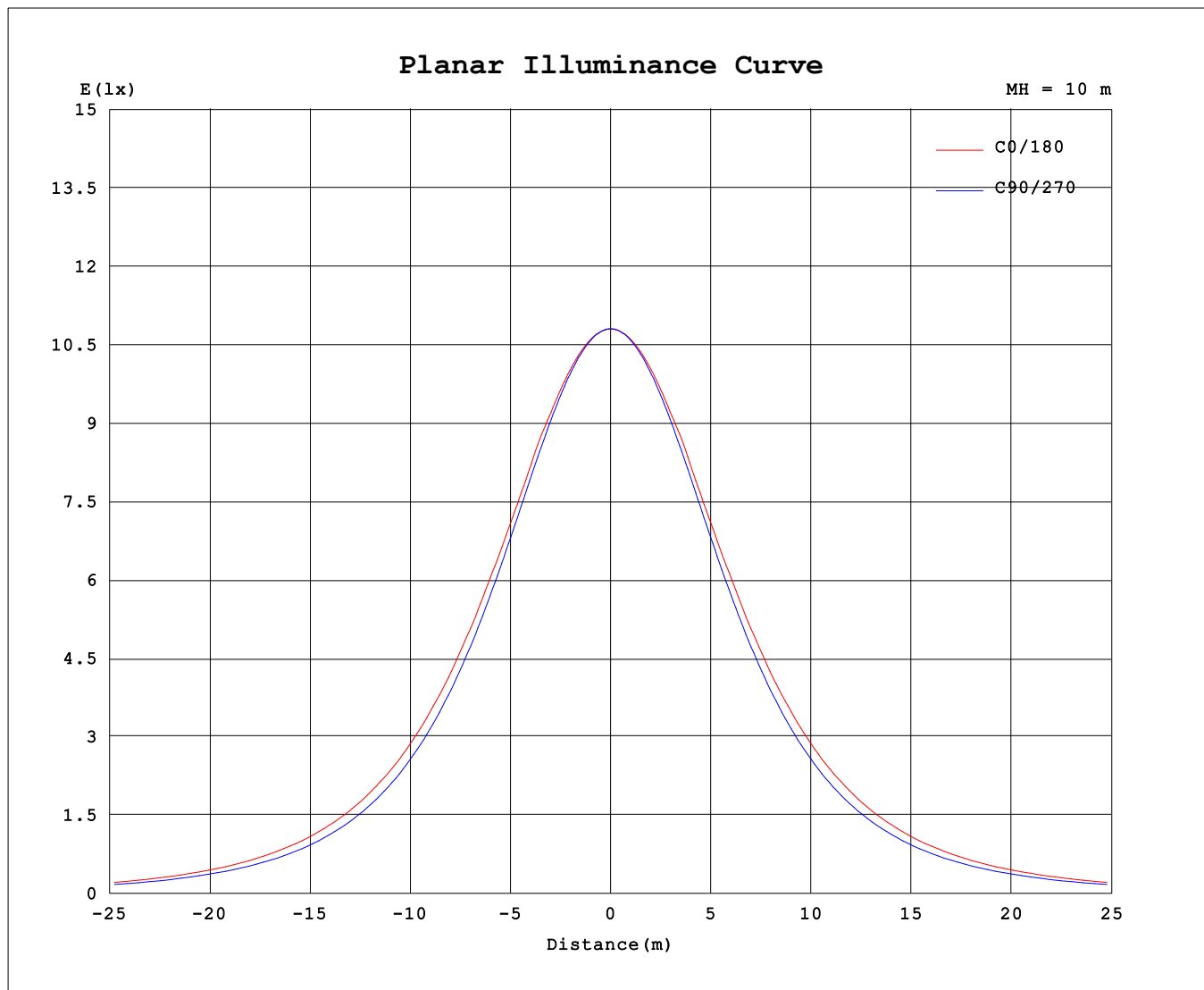
AvgL	cd/m2
L_0~180 (65) av	9601
L_0~180 (75) av	8598
L_0~180 (85) av	5322
L_90~270 (65) av	7866
L_90~270 (75) av	6777
L_90~270 (85) av	4182
L_45 (65) av	8630
L_45 (75) av	7570
L_45 (85) av	4898

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%_2700K

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%_2700:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.03V I:0.2406A P:28.658W PF:0.9922 Freq:60.01Hz Lamp Flux:3288.48x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	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	1080	1080	1080	1080	1080	1080	1081	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1081
5	1077	1077	1076	1076	1076	1076	1076	1076	1076	1076	1076	1077	1077	1077	1076	1076	1076	1076	1076
10	1068	1067	1066	1065	1063	1062	1062	1062	1063	1065	1066	1067	1068	1067	1066	1065	1063	1062	1062
15	1052	1052	1048	1045	1042	1039	1039	1039	1042	1045	1048	1052	1052	1052	1048	1045	1042	1039	1039
20	1035	1030	1026	1018	1012	1008	1006	1008	1012	1018	1026	1030	1035	1030	1026	1018	1012	1008	1006
25	1001	998	992	985	974	968	966	968	974	985	992	998	1001	998	992	985	974	968	966
30	966	962	952	941	928	919	917	919	928	941	952	962	966	962	952	941	928	919	917
35	922	918	906	889	876	864	860	864	876	889	906	918	922	918	906	889	876	864	860
40	870	865	850	832	815	801	796	801	815	832	850	865	870	865	850	832	815	801	796
45	810	803	787	766	745	731	726	731	745	766	787	803	810	803	787	766	745	731	726
50	744	734	715	693	670	655	650	655	670	693	715	734	744	734	715	693	670	655	650
55	664	655	636	612	589	574	569	574	589	612	636	655	664	655	636	612	589	574	569
60	575	567	548	524	502	487	482	487	502	524	548	567	575	567	548	524	502	487	482
65	478	471	452	430	410	396	392	396	410	430	452	471	478	471	452	430	410	396	392
70	373	367	351	331	314	303	299	303	314	331	351	367	373	367	351	331	314	303	299
75	262	258	246	231	218	210	207	210	218	231	246	258	262	258	246	231	218	210	207
80	152	151	143	134	126	121	119	121	126	134	143	151	152	151	143	134	126	121	119
85	54.6	56.9	53.9	50.3	47.3	45.1	42.9	45.1	47.3	50.3	53.9	56.9	54.6	56.9	53.9	50.3	47.3	45.1	42.9
90	1.16	4.83	4.31	3.90	3.84	3.48	0.58	3.48	3.84	3.90	4.31	4.83	1.16	4.83	4.31	3.90	3.84	3.48	0.58
95	0.16	0.19	0.31	0.38	0.40	0.41	0.44	0.41	0.40	0.38	0.31	0.19	0.16	0.19	0.31	0.38	0.40	0.41	0.44
100	0.28	0.32	0.45	0.49	0.51	0.52	0.56	0.52	0.51	0.49	0.45	0.32	0.28	0.32	0.45	0.49	0.51	0.52	0.56
105	0.36	0.43	0.57	0.61	0.62	0.62	0.64	0.62	0.62	0.61	0.57	0.43	0.36	0.43	0.57	0.61	0.62	0.62	0.64
110	0.42	0.50	0.65	0.69	0.71	0.72	0.71	0.72	0.71	0.69	0.65	0.50	0.42	0.50	0.65	0.69	0.71	0.72	0.71
115	0.46	0.58	0.72	0.76	0.79	0.81	0.80	0.81	0.79	0.76	0.72	0.58	0.46	0.58	0.72	0.76	0.79	0.81	0.80
120	0.53	0.63	0.77	0.83	0.86	0.87	0.86	0.87	0.86	0.83	0.77	0.63	0.53	0.63	0.77	0.83	0.86	0.87	0.86
125	0.63	0.74	0.84	0.89	0.93	0.95	0.93	0.95	0.93	0.89	0.84	0.74	0.63	0.74	0.84	0.89	0.93	0.95	0.93
130	0.79	0.89	0.99	1.02	1.08	1.12	1.11	1.12	1.08	1.02	0.99	0.89	0.79	0.89	0.99	1.02	1.08	1.12	1.11
135	0.98	1.06	1.18	1.21	1.26	1.32	1.32	1.32	1.26	1.21	1.18	1.06	0.98	1.06	1.18	1.21	1.26	1.32	1.32
140	1.23	1.28	1.43	1.48	1.51	1.58	1.60	1.58	1.51	1.48	1.43	1.28	1.23	1.28	1.43	1.48	1.51	1.58	1.60
145	1.50	1.53	1.67	1.76	1.82	1.87	1.92	1.87	1.82	1.76	1.67	1.53	1.50	1.53	1.67	1.76	1.82	1.87	1.92
150	1.72	1.73	1.85	1.98	2.07	2.12	2.18	2.12	2.07	1.98	1.85	1.73	1.72	1.73	1.85	1.98	2.07	2.12	2.18
155	1.87	1.89	1.97	2.10	2.22	2.29	2.36	2.29	2.22	2.10	1.97	1.89	1.87	1.89	1.97	2.10	2.22	2.29	2.36
160	1.94	1.97	2.02	2.14	2.26	2.37	2.40	2.37	2.26	2.14	2.02	1.97	1.94	1.97	2.02	2.14	2.26	2.37	2.40
165	1.98	2.03	2.05	2.13	2.25	2.35	2.35	2.35	2.25	2.13	2.05	2.03	1.98	2.03	2.05	2.13	2.25	2.35	2.35
170	2.02	2.06	2.08	2.13	2.22	2.29	2.29	2.29	2.22	2.13	2.08	2.06	2.02	2.06	2.08	2.13	2.22	2.29	2.29
175	2.02	2.06	2.09	2.12	2.19	2.25	2.23	2.25	2.19	2.12	2.09	2.06	2.02	2.06	2.09	2.12	2.19	2.25	2.23
180	2.04	2.07	2.09	2.13	2.19	2.25	2.29	2.25	2.19	2.13	2.09	2.07	2.04	2.07	2.09	2.13	2.19	2.25	2.29

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%_2700K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.03V I:0.2406A P:28.658W PF:0.9922 Freq:60.01Hz Lamp Flux:3288.48x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	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	1080	1080	1080	1080	1080													
5	1076	1076	1076	1076	1077													
10	1062	1063	1065	1066	1067													
15	1039	1042	1045	1048	1052													
20	1008	1012	1018	1026	1030													
25	968	974	985	992	998													
30	919	928	941	952	962													
35	864	876	889	906	918													
40	801	815	832	850	865													
45	731	745	766	787	803													
50	655	670	693	715	734													
55	574	589	612	636	655													
60	487	502	524	548	567													
65	396	410	430	452	471													
70	303	314	331	351	367													
75	210	218	231	246	258													
80	121	126	134	143	151													
85	45.1	47.3	50.3	53.9	56.9													
90	3.48	3.84	3.90	4.31	4.83													
95	0.41	0.40	0.38	0.31	0.19													
100	0.52	0.51	0.49	0.45	0.32													
105	0.62	0.62	0.61	0.57	0.43													
110	0.72	0.71	0.69	0.65	0.50													
115	0.81	0.79	0.76	0.72	0.58													
120	0.87	0.86	0.83	0.77	0.63													
125	0.95	0.93	0.89	0.84	0.74													
130	1.12	1.08	1.02	0.99	0.89													
135	1.32	1.26	1.21	1.18	1.06													
140	1.58	1.51	1.48	1.43	1.28													
145	1.87	1.82	1.76	1.67	1.53													
150	2.12	2.07	1.98	1.85	1.73													
155	2.29	2.22	2.10	1.97	1.89													
160	2.37	2.26	2.14	2.02	1.97													
165	2.35	2.25	2.13	2.05	2.03													
170	2.29	2.22	2.13	2.08	2.06													
175	2.25	2.19	2.12	2.09	2.06													
180	2.25	2.19	2.13	2.09	2.07													

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%_2700: