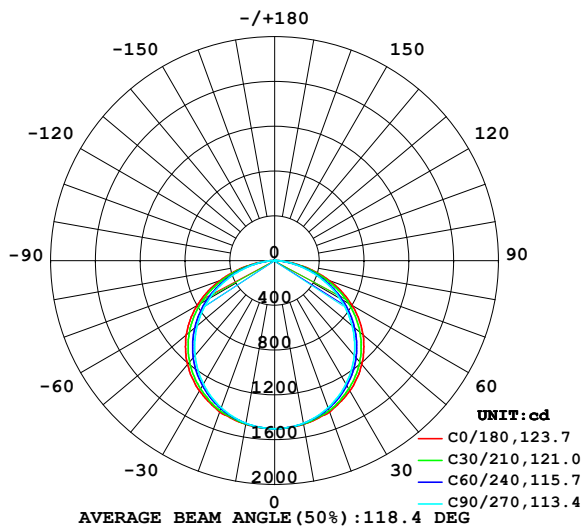


LUMINAIRE PHOTOMETRIC TEST REPORT

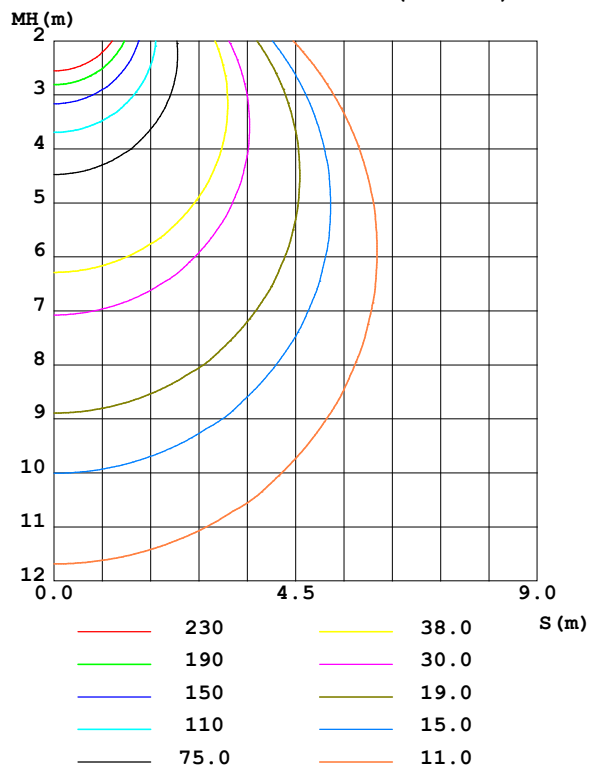
Test:U:120.05V I:0.3176A P:37.840W PF:0.9924 Freq:60.01Hz Lamp Flux:4574.14x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.88 lm/W			
MODEL		I _{max} (cd)	1502	S/MH(C0/180)	1.33
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	4574.1	η UP,DN(C0-180)	0.1,49.9
NOMINAL FLUX(lm)	4574.14	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:Alan Wang
Test Date:2026-02-10

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_80%_3500K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

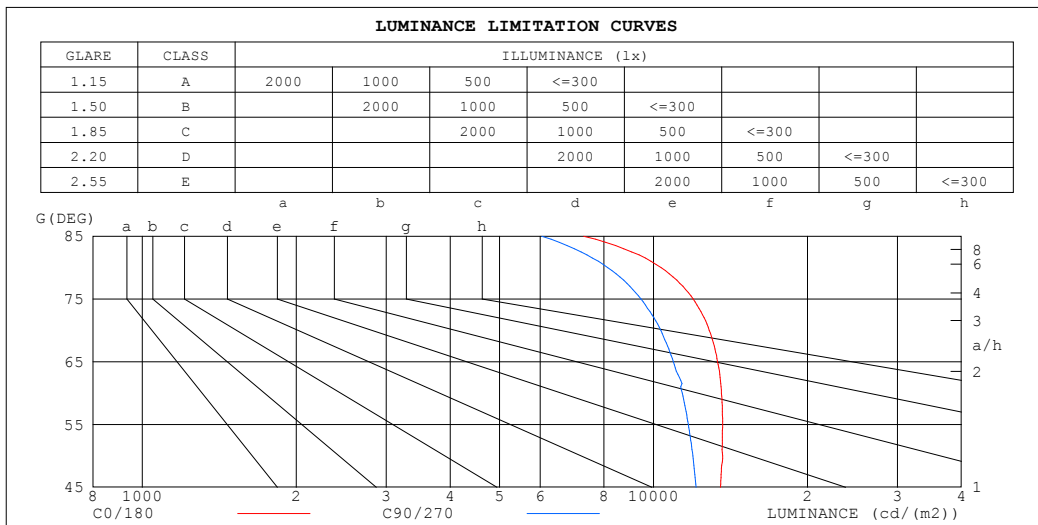
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1485	1479	1476	1479	1485	1479	1476	1479	0- 10	142.2	142.2	3.11,3.11
20	1438	1414	1398	1414	1438	1414	1398	1414	10- 20	410.4	552.6	12.1,12.1
30	1343	1309	1274	1309	1343	1309	1274	1309	20- 30	630.3	1183	25.9,25.9
40	1210	1156	1107	1156	1210	1156	1107	1156	30- 40	774.6	1957	42.8,42.8
50	1034	962.5	904.1	962.5	1034	962.5	904.1	962.5	40- 50	822.3	2780	60.8,60.8
60	799.9	728.2	670.5	728.2	799.9	728.2	670.5	728.2	50- 60	762.0	3542	77.4,77.4
70	518.1	460.8	416.2	460.8	518.1	460.8	416.2	460.8	60- 70	594.1	4136	90.4,90.4
80	211.6	187.2	166.3	187.2	211.6	187.2	166.3	187.2	70- 80	342.5	4478	97.9,97.9
90	1.576	7.169	5.832	7.169	1.576	7.169	5.832	7.169	80- 90	86.47	4565	99.8,99.8
100	0.3921	0.6853	0.7638	0.6853	0.3921	0.6853	0.7638	0.6853	90-100	1.156	4566	99.8,99.8
110	0.5790	0.9555	0.9787	0.9555	0.5790	0.9555	0.9787	0.9555	100-110	0.8144	4567	99.8,99.8
120	0.7358	1.152	1.206	1.152	0.7358	1.152	1.206	1.152	110-120	0.9795	4568	99.9,99.9
130	1.094	1.416	1.533	1.416	1.094	1.416	1.533	1.416	120-130	1.080	4569	99.9,99.9
140	1.708	2.046	2.220	2.046	1.708	2.046	2.220	2.046	130-140	1.293	4570	99.9,99.9
150	2.393	2.738	3.022	2.738	2.393	2.738	3.022	2.738	140-150	1.485	4572	99.9,99.9
160	2.703	2.966	3.363	2.966	2.703	2.966	3.363	2.966	150-160	1.338	4573	100,100
170	2.804	2.981	3.231	2.981	2.804	2.981	3.231	2.981	160-170	0.8543	4574	100,100
180	2.840	2.981	3.202	2.981	2.840	2.981	3.202	2.981	170-180	0.2859	4574	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:Alan Wang
Test Date:2026-02-10

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_80%_3500:

LUMINANCE LIMITATION CURVES

Test:U:120.05V I:0.3176A P:37.840W PF:0.9924 Freq:60.01Hz Lamp Flux:4574.14x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	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	7304	6042
80	10345	8130
75	11949	9452
70	12858	10330
65	13348	10937
60	13580	11383
55	13652	11698
50	13649	11939
45	13521	12117

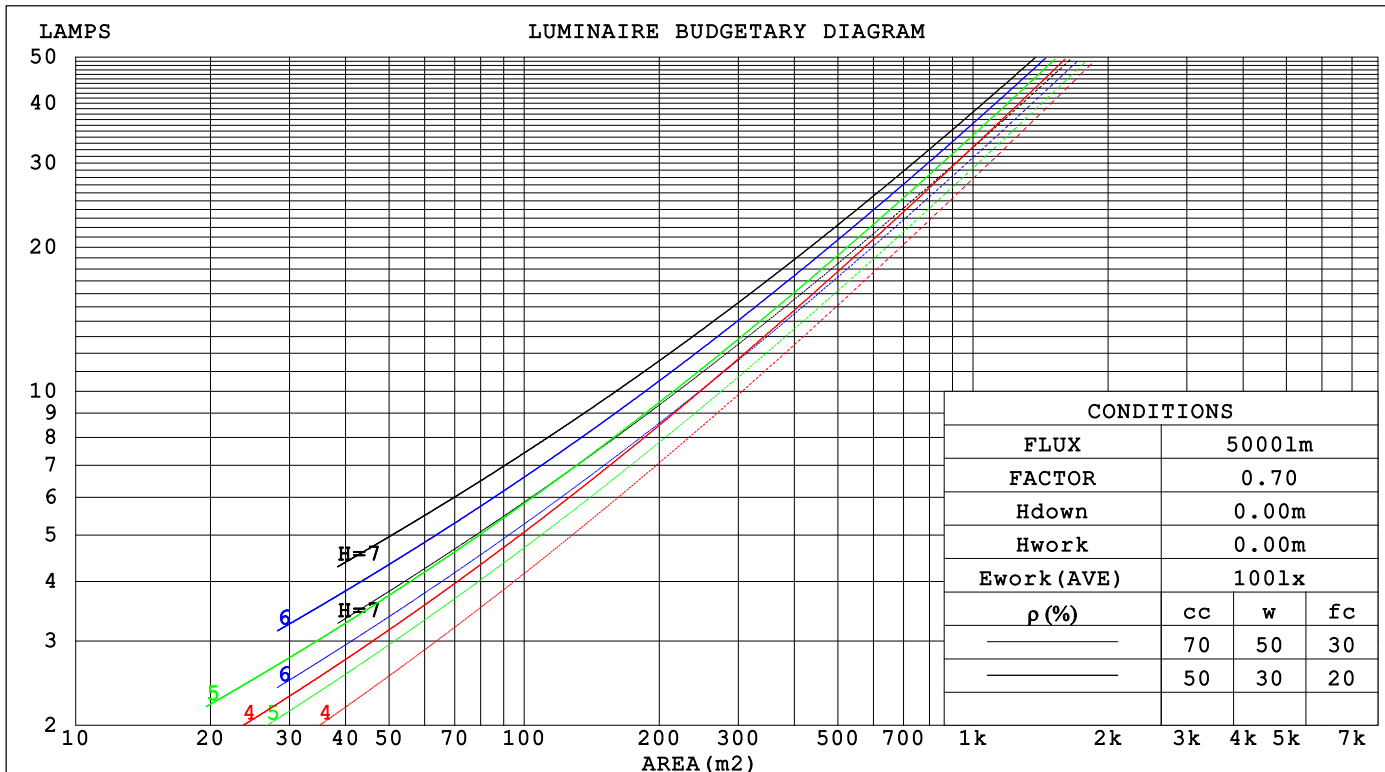
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.2°C
Operators: Alan Wang
Test Date: 2026-02-10

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_80%_3500K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.05V I:0.3176A P:37.840W PF:0.9924 Freq:60.01Hz Lamp Flux:4574.14x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	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	.72	.78	.74	.71	.69												
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.65	.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	.36												
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	.30	.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°C
Operators:Alan Wang
Test Date:2026-02-10

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_80%_3500K

WEC AND CCEC

Test:U:120.05V I:0.3176A P:37.840W PF:0.9924 Freq:60.01Hz Lamp Flux:4574.14x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	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	.295	.169	.054	.282	.163	.052	.271	.157	.051		
2.0	.297	.163	.050	.290	.160	.049	.279	.155	.048	.268	.150	.047	.258	.146	.046		
3.0	.274	.146	.044	.269	.144	.043	.258	.140	.043	.249	.136	.042	.240	.133	.041		
4.0	.253	.131	.039	.248	.130	.038	.239	.127	.038	.230	.124	.037	.222	.121	.037		
5.0	.234	.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	.018	.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:Alan Wang
Test Date:2026-02-10

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_80%_3500

UGR(Unified Glare Rating) Table

Test:U:120.05V I:0.3176A P:37.840W PF:0.9924 Freq:60.01Hz Lamp Flux:4574.14x1 lm											
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K						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		22.2	23.7	22.4	23.9	24.1	21.4	22.9	21.7	23.1	23.3
3H		23.9	25.3	24.2	25.5	25.8	22.9	24.3	23.2	24.5	24.8
4H		24.5	25.9	24.9	26.2	26.4	23.4	24.8	23.8	25.1	25.3
6H		25.0	26.3	25.3	26.6	26.8	23.8	25.1	24.2	25.4	25.7
8H		25.1	26.4	25.5	26.6	26.9	23.9	25.2	24.3	25.5	25.8
12H		25.2	26.4	25.5	26.7	27.0	24.0	25.2	24.3	25.5	25.8
4H 2H		22.7	24.1	23.0	24.3	24.6	22.1	23.5	22.4	23.7	24.0
3H		24.6	25.8	25.0	26.1	26.4	23.8	25.0	24.1	25.3	25.6
4H		25.4	26.5	25.8	26.8	27.2	24.5	25.5	24.8	25.9	26.2
6H		26.0	27.0	26.4	27.3	27.7	25.0	25.9	25.4	26.3	26.6
8H		26.2	27.1	26.6	27.4	27.8	25.1	26.0	25.5	26.4	26.8
12H		26.3	27.1	26.7	27.5	27.9	25.2	26.0	25.6	26.4	26.8
8H 4H		25.6	26.5	26.0	26.9	27.3	24.8	25.7	25.2	26.1	26.4
6H		26.3	27.1	26.8	27.5	27.9	25.4	26.2	25.9	26.6	27.0
8H		26.6	27.3	27.1	27.7	28.2	25.6	26.3	26.1	26.7	27.2
12H		26.8	27.3	27.2	27.8	28.3	25.8	26.4	26.3	26.8	27.3
12H 4H		25.6	26.4	26.0	26.8	27.2	24.8	25.6	25.2	26.0	26.4
6H		26.4	27.0	26.8	27.5	27.9	25.5	26.1	25.9	26.6	27.0
8H		26.7	27.2	27.2	27.7	28.2	25.7	26.3	26.2	26.8	27.2
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, 4574 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.3)
Area: 0.11781 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:Alan Wang
Test Date:2026-02-10

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_80%_3500K

UTILIZATION FACTORS TABLE

Test:U:120.05V I:0.3176A P:37.840W PF:0.9924 Freq:60.01Hz Lamp Flux:4574.14x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

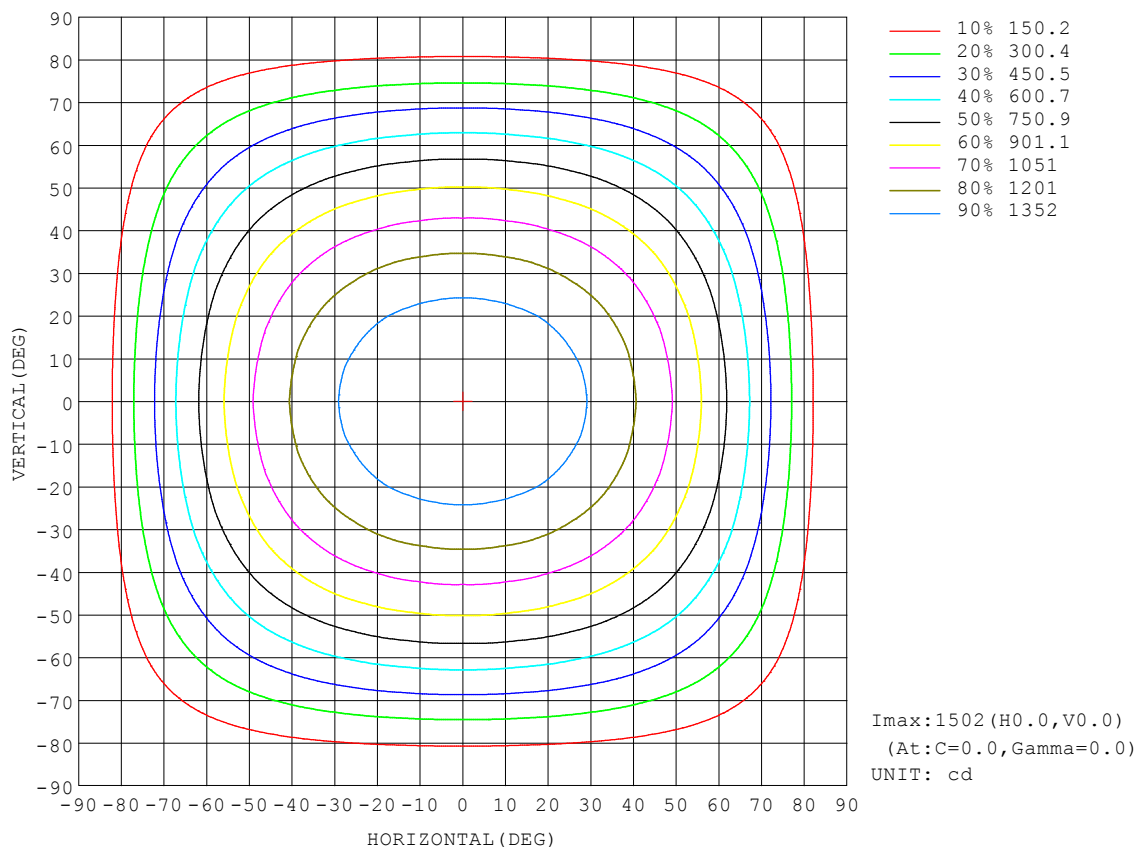
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	44	37	54	44	37	31
0.80	67	55	47	65	54	47	64	53	47	40
1.00	75	64	56	74	63	56	71	65	55	48
1.25	82	71	64	81	71	64	78	69	63	55
1.50	87	77	70	86	76	69	82	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: Alan Wang
Test Date: 2026-02-10

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_80%_3500K

ISOCANDELA DIAGRAM

Test:U:120.05V I:0.3176A P:37.840W PF:0.9924 Freq:60.01Hz Lamp Flux:4574.14x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

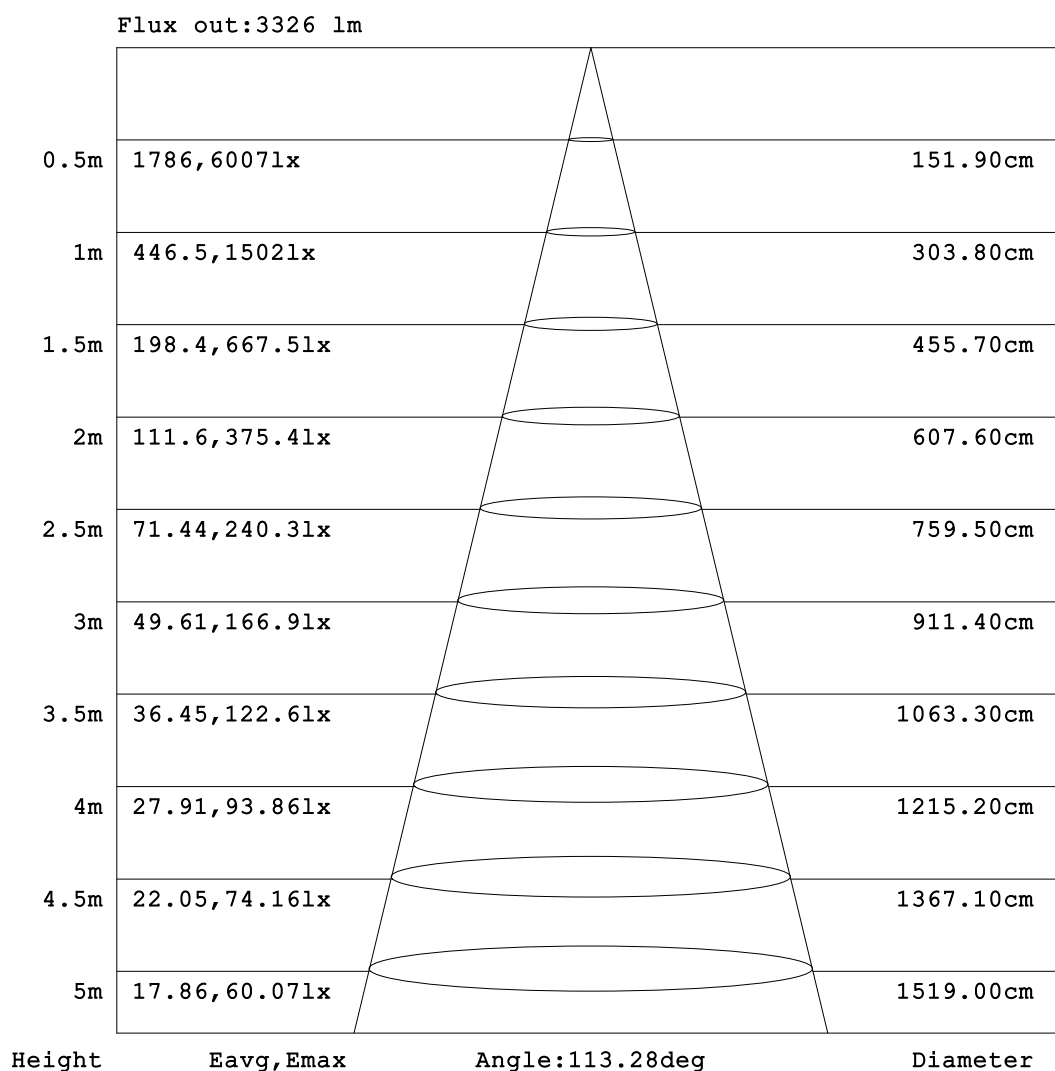


C Range: 0 - 360DEG
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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:48.4%
Test Distance:1.900m [K=1.0851]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K

AAI Figure

Test:U:120.05V I:0.3176A P:37.840W PF:0.9924 Freq:60.01Hz Lamp Flux:4574.14x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



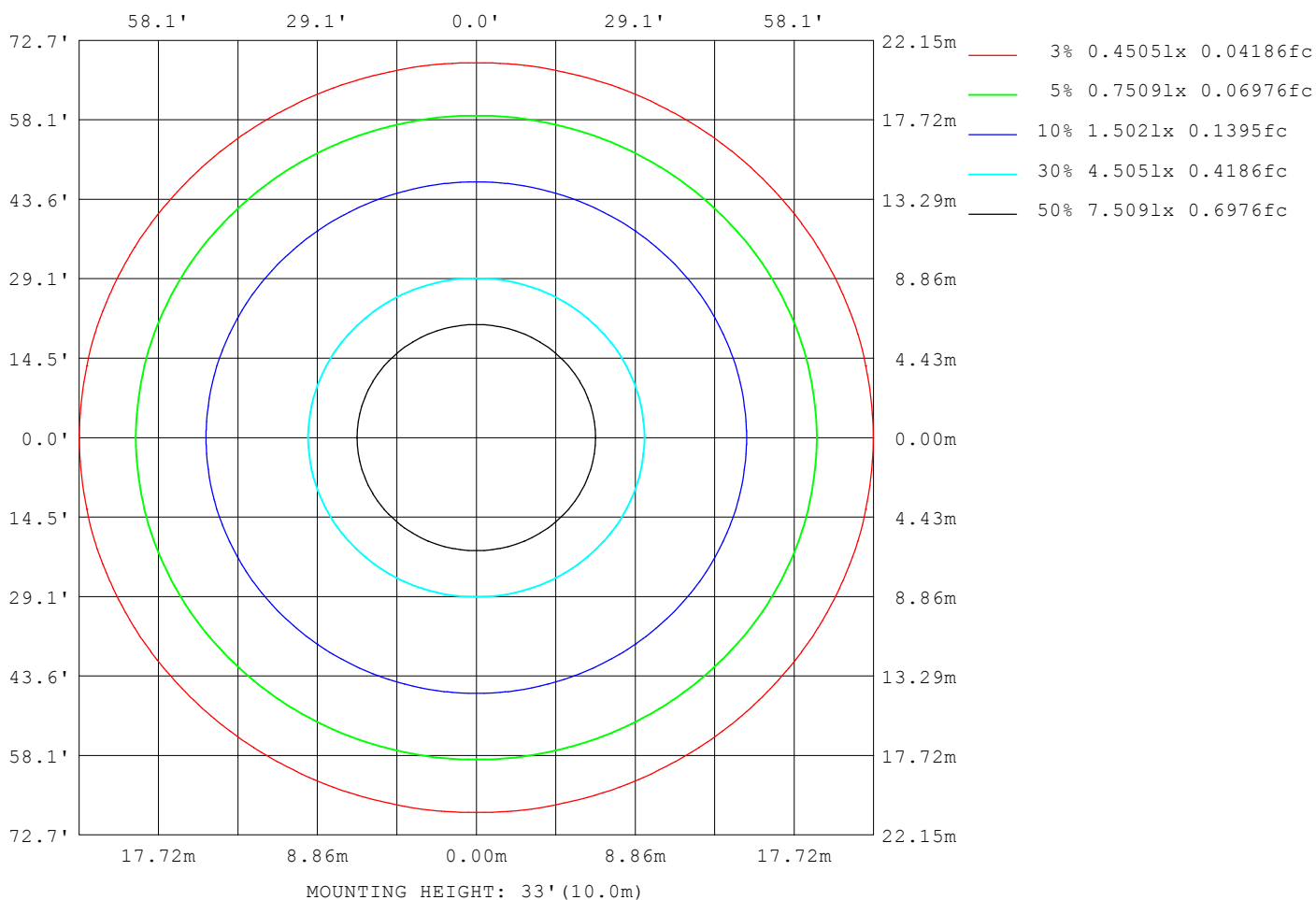
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2°C
Operators:Alan Wang
Test Date:2026-02-10

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_80%_3500K

ISOLUX DIAGRAM

Test:U:120.05V I:0.3176A P:37.840W PF:0.9924 Freq:60.01Hz Lamp Flux:4574.14x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	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:Alan Wang
Test Date:2026-02-10

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_80%_3500K

LED Avg.L Report

Test:U:120.05V I:0.3176A P:37.840W PF:0.9924 Freq:60.01Hz Lamp Flux:4574.14x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

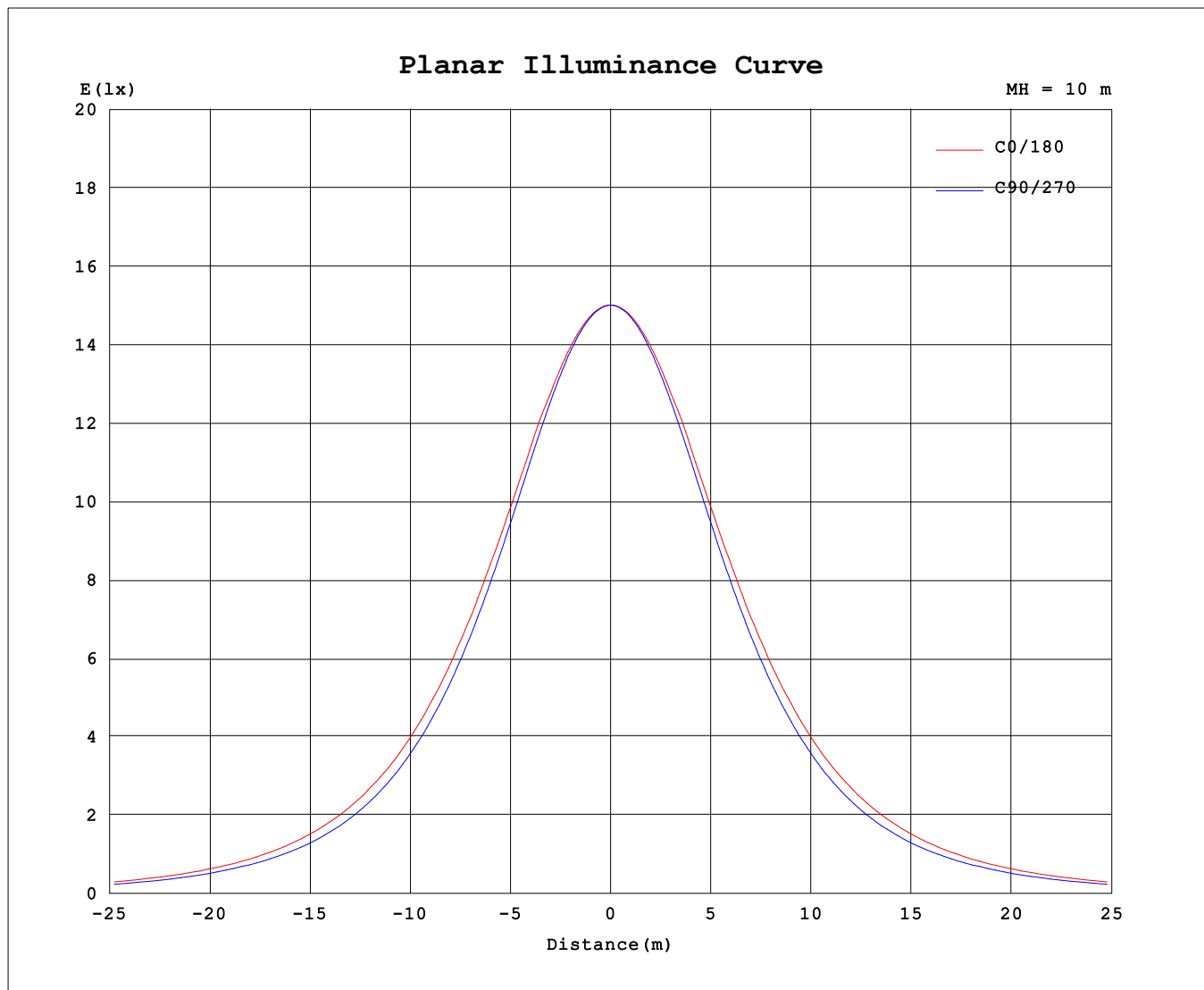
AvgL	cd/m2
L_0~180 (65) av	13348
L_0~180 (75) av	11949
L_0~180 (85) av	7304
L_90~270 (65) av	10937
L_90~270 (75) av	9452
L_90~270 (85) av	6042
L_45 (65) av	12006
L_45 (75) av	10533
L_45 (85) av	6899

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:Alan Wang
Test Date:2026-02-10

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_80%_3500:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.2°C
Operators: Alan Wang
Test Date: 2026-02-10

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_80%_3500l

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.05V I:0.3176A P:37.840W PF:0.9924 Freq:60.01Hz Lamp Flux:4574.14x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	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	1502	1501	1501	1500	1500	1501	1501	1501	1500	1500	1501	1501	1502	1501	1501	1500	1500	1501	1501
5	1498	1496	1496	1495	1495	1494	1495	1494	1495	1495	1496	1496	1498	1496	1496	1495	1495	1494	1495
10	1485	1483	1482	1479	1477	1476	1476	1476	1477	1479	1482	1483	1485	1483	1482	1479	1477	1476	1476
15	1464	1462	1457	1452	1447	1444	1443	1444	1447	1452	1457	1462	1464	1462	1457	1452	1447	1444	1443
20	1438	1432	1426	1414	1406	1400	1398	1400	1406	1414	1426	1432	1438	1432	1426	1414	1406	1400	1398
25	1392	1387	1379	1368	1354	1345	1342	1345	1354	1368	1379	1387	1392	1387	1379	1368	1354	1345	1342
30	1343	1338	1323	1309	1290	1278	1274	1278	1290	1309	1323	1338	1343	1338	1323	1309	1290	1278	1274
35	1282	1276	1259	1236	1217	1200	1195	1200	1217	1236	1259	1276	1282	1276	1259	1236	1217	1200	1195
40	1210	1203	1182	1156	1132	1113	1107	1113	1132	1156	1182	1203	1210	1203	1182	1156	1132	1113	1107
45	1126	1117	1094	1065	1036	1016	1009	1016	1036	1065	1094	1117	1126	1117	1094	1065	1036	1016	1009
50	1034	1021	995	963	932	911	904	911	932	963	995	1021	1034	1021	995	963	932	911	904
55	923	912	885	850	819	798	790	798	819	850	885	912	923	912	885	850	819	798	790
60	800	790	763	728	699	678	670	678	699	728	763	790	800	790	763	728	699	678	670
65	665	656	630	598	569	551	545	551	569	598	630	656	665	656	630	598	569	551	545
70	518	510	488	461	437	421	416	421	437	461	488	510	518	510	488	461	437	421	416
75	364	359	342	321	304	292	288	292	304	321	342	359	364	359	342	321	304	292	288
80	212	209	199	187	176	169	166	169	176	187	199	209	212	209	199	187	176	169	166
85	75.0	77.9	74.4	70.8	66.9	64.3	62.0	64.3	66.9	70.8	74.4	77.9	75.0	77.9	74.4	70.8	66.9	64.3	62.0
90	1.58	5.75	6.01	7.17	7.19	7.23	5.83	7.23	7.19	7.17	6.01	5.75	1.58	5.75	6.01	7.17	7.19	7.23	5.83
95	0.22	0.26	0.43	0.53	0.56	0.58	0.60	0.58	0.56	0.53	0.43	0.26	0.22	0.26	0.43	0.53	0.56	0.58	0.60
100	0.39	0.45	0.63	0.69	0.70	0.72	0.76	0.72	0.70	0.69	0.63	0.45	0.39	0.45	0.63	0.69	0.70	0.72	0.76
105	0.49	0.59	0.79	0.85	0.86	0.85	0.89	0.85	0.86	0.85	0.79	0.59	0.49	0.59	0.79	0.85	0.86	0.85	0.89
110	0.58	0.69	0.90	0.96	0.98	0.99	0.98	0.99	0.98	0.96	0.90	0.69	0.58	0.69	0.90	0.96	0.98	0.99	0.98
115	0.64	0.80	1.00	1.06	1.10	1.12	1.11	1.12	1.10	1.06	1.00	0.80	0.64	0.80	1.00	1.06	1.10	1.12	1.11
120	0.74	0.88	1.07	1.15	1.20	1.22	1.21	1.22	1.20	1.15	1.07	0.88	0.74	0.88	1.07	1.15	1.20	1.22	1.21
125	0.87	1.04	1.16	1.22	1.30	1.32	1.31	1.32	1.30	1.22	1.16	1.04	0.87	1.04	1.16	1.22	1.30	1.32	1.31
130	1.09	1.24	1.38	1.42	1.49	1.55	1.53	1.55	1.49	1.42	1.38	1.24	1.09	1.24	1.38	1.42	1.49	1.55	1.53
135	1.36	1.48	1.64	1.68	1.74	1.83	1.82	1.83	1.74	1.68	1.64	1.48	1.36	1.48	1.64	1.68	1.74	1.83	1.82
140	1.71	1.79	1.99	2.05	2.10	2.19	2.22	2.19	2.10	2.05	1.99	1.79	1.71	1.79	1.99	2.05	2.10	2.19	2.22
145	2.09	2.13	2.33	2.44	2.53	2.60	2.66	2.60	2.53	2.44	2.33	2.13	2.09	2.13	2.33	2.44	2.53	2.60	2.66
150	2.39	2.41	2.58	2.74	2.87	2.95	3.02	2.95	2.87	2.74	2.58	2.41	2.39	2.41	2.58	2.74	2.87	2.95	3.02
155	2.60	2.63	2.74	2.93	3.09	3.19	3.28	3.19	3.09	2.93	2.74	2.63	2.60	2.63	2.74	2.93	3.09	3.19	3.28
160	2.70	2.74	2.82	2.97	3.15	3.30	3.36	3.30	3.15	2.97	2.82	2.74	2.70	2.74	2.82	2.97	3.15	3.30	3.36
165	2.75	2.80	2.85	2.98	3.12	3.28	3.30	3.28	3.12	2.98	2.85	2.80	2.75	2.80	2.85	2.98	3.12	3.28	3.30
170	2.80	2.85	2.89	2.98	3.10	3.21	3.23	3.21	3.10	2.98	2.89	2.85	2.80	2.85	2.89	2.98	3.10	3.21	3.23
175	2.80	2.86	2.90	2.97	3.06	3.14	3.14	3.14	3.06	2.97	2.90	2.86	2.80	2.86	2.90	2.97	3.06	3.14	3.14
180	2.84	2.87	2.92	2.98	3.06	3.15	3.20	3.15	3.06	2.98	2.92	2.87	2.84	2.87	2.92	2.98	3.06	3.15	3.20

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:Alan Wang
Test Date:2026-02-10

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_80%_3500K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.05V I:0.3176A P:37.840W PF:0.9924 Freq:60.01Hz Lamp Flux:4574.14x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_3500K	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	1501	1500	1500	1501	1501													
5	1494	1495	1495	1496	1496													
10	1476	1477	1479	1482	1483													
15	1444	1447	1452	1457	1462													
20	1400	1406	1414	1426	1432													
25	1345	1354	1368	1379	1387													
30	1278	1290	1309	1323	1338													
35	1200	1217	1236	1259	1276													
40	1113	1132	1156	1182	1203													
45	1016	1036	1065	1094	1117													
50	911	932	963	995	1021													
55	798	819	850	885	912													
60	678	699	728	763	790													
65	551	569	598	630	656													
70	421	437	461	488	510													
75	292	304	321	342	359													
80	169	176	187	199	209													
85	64.3	66.9	70.8	74.4	77.9													
90	7.23	7.19	7.17	6.01	5.75													
95	0.58	0.56	0.53	0.43	0.26													
100	0.72	0.70	0.69	0.63	0.45													
105	0.85	0.86	0.85	0.79	0.59													
110	0.99	0.98	0.96	0.90	0.69													
115	1.12	1.10	1.06	1.00	0.80													
120	1.22	1.20	1.15	1.07	0.88													
125	1.32	1.30	1.22	1.16	1.04													
130	1.55	1.49	1.42	1.38	1.24													
135	1.83	1.74	1.68	1.64	1.48													
140	2.19	2.10	2.05	1.99	1.79													
145	2.60	2.53	2.44	2.33	2.13													
150	2.95	2.87	2.74	2.58	2.41													
155	3.19	3.09	2.93	2.74	2.63													
160	3.30	3.15	2.97	2.82	2.74													
165	3.28	3.12	2.98	2.85	2.80													
170	3.21	3.10	2.98	2.89	2.85													
175	3.14	3.06	2.97	2.90	2.86													
180	3.15	3.06	2.98	2.92	2.87													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:Alan Wang
Test Date:2026-02-10

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_80%_3500: