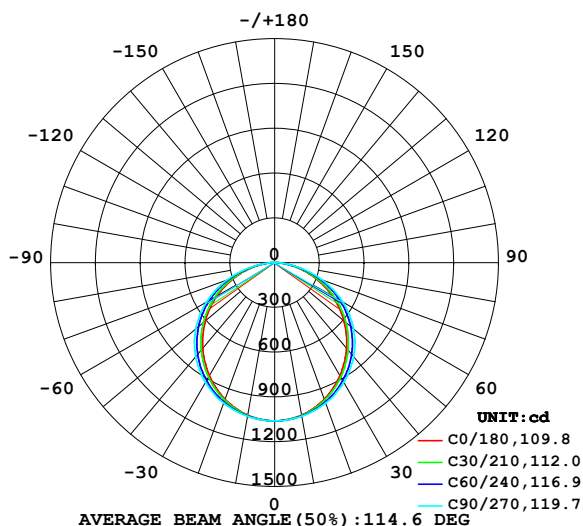


LUMINAIRE PHOTOMETRIC TEST REPORT

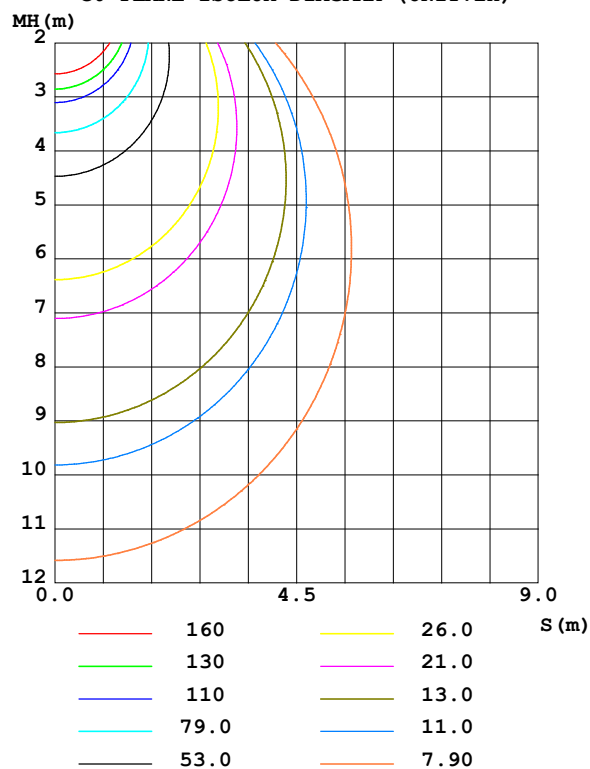
Test:U:120.10V I:0.1939A P:23.033W PF:0.9892 Freq:60.01Hz Lamp Flux:3097.42x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 134.48 lm/W
MODEL		I _{max} (cd)	1060	S/MH(C0/180)	1.23	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.30	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3097.4	η UP,DN(C0-180)	0.1,49.9	
NOMINAL FLUX(lm)	3097.42	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,49.9	
LAMPS INSIDE	1	η up (%)	0.2	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120.078	η down (%)	99.8	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%-4000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

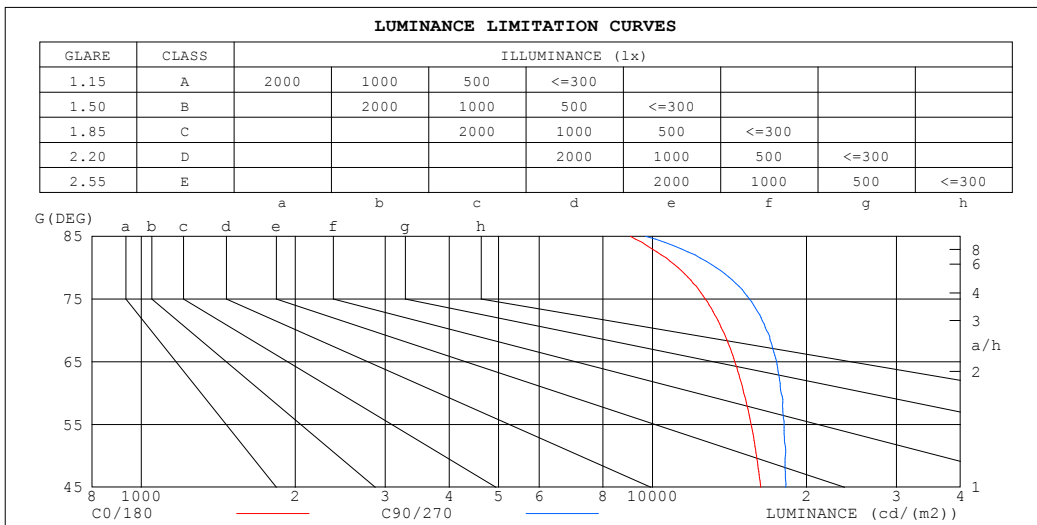
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1037	1041	1045	1041	1037	1041	1045	1041	0- 10	100.3	100.3	3.24,3.24
20	973.6	986.7	1001	986.7	973.6	986.7	1001	986.7	10- 20	287.5	387.8	12.5,12.5
30	874.5	899.8	926.8	899.8	874.5	899.8	926.8	899.8	20- 30	436.7	824.5	26.6,26.6
40	749.7	783.2	824.2	783.2	749.7	783.2	824.2	783.2	30- 40	529.1	1354	43.7,43.7
50	606.4	643.7	690.2	643.7	606.4	643.7	690.2	643.7	40- 50	553.9	1907	61.6,61.6
60	445.5	483.2	527.1	483.2	445.5	483.2	527.1	483.2	50- 60	507.3	2415	78,78
70	276.8	303.7	337.5	303.7	276.8	303.7	337.5	303.7	60- 70	392.1	2807	90.6,90.6
80	115.0	124.7	136.6	124.7	115.0	124.7	136.6	124.7	70- 80	226.0	3033	97.9,97.9
90	6.960	5.981	4.231	5.981	6.960	5.981	4.231	5.981	80- 90	59.00	3092	99.8,99.8
100	0.2611	0.2427	0.2166	0.2427	0.2611	0.2427	0.2166	0.2427	90-100	0.9152	3093	99.9,99.9
110	0.3907	0.3858	0.3561	0.3858	0.3907	0.3858	0.3561	0.3858	100-110	0.3364	3093	99.9,99.9
120	0.5432	0.5304	0.4920	0.5304	0.5432	0.5304	0.4920	0.5304	110-120	0.4507	3094	99.9,99.9
130	0.8142	0.7523	0.7324	0.7523	0.8142	0.7523	0.7324	0.7523	120-130	0.5582	3094	99.9,99.9
140	1.271	1.197	1.163	1.197	1.271	1.197	1.163	1.197	130-140	0.7445	3095	99.9,99.9
150	1.823	1.701	1.662	1.701	1.823	1.701	1.662	1.701	140-150	0.9180	3096	99.9,99.9
160	2.048	1.934	1.888	1.934	2.048	1.934	1.888	1.934	150-160	0.8604	3097	100,100
170	2.023	1.949	1.906	1.949	2.023	1.949	1.906	1.949	160-170	0.5534	3097	100,100
180	2.121	1.991	1.934	1.991	2.121	1.991	1.934	1.991	170-180	0.1890	3097	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000:

LUMINANCE LIMITATION CURVES

Test:U:120.10V I:0.1939A P:23.033W PF:0.9892 Freq:60.01Hz Lamp Flux:3097.42x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	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	9055	9689
80	11215	13323
75	12680	15473
70	13706	16713
65	14493	17504
60	15089	17853
55	15585	18097
50	15976	18183
45	16284	18224

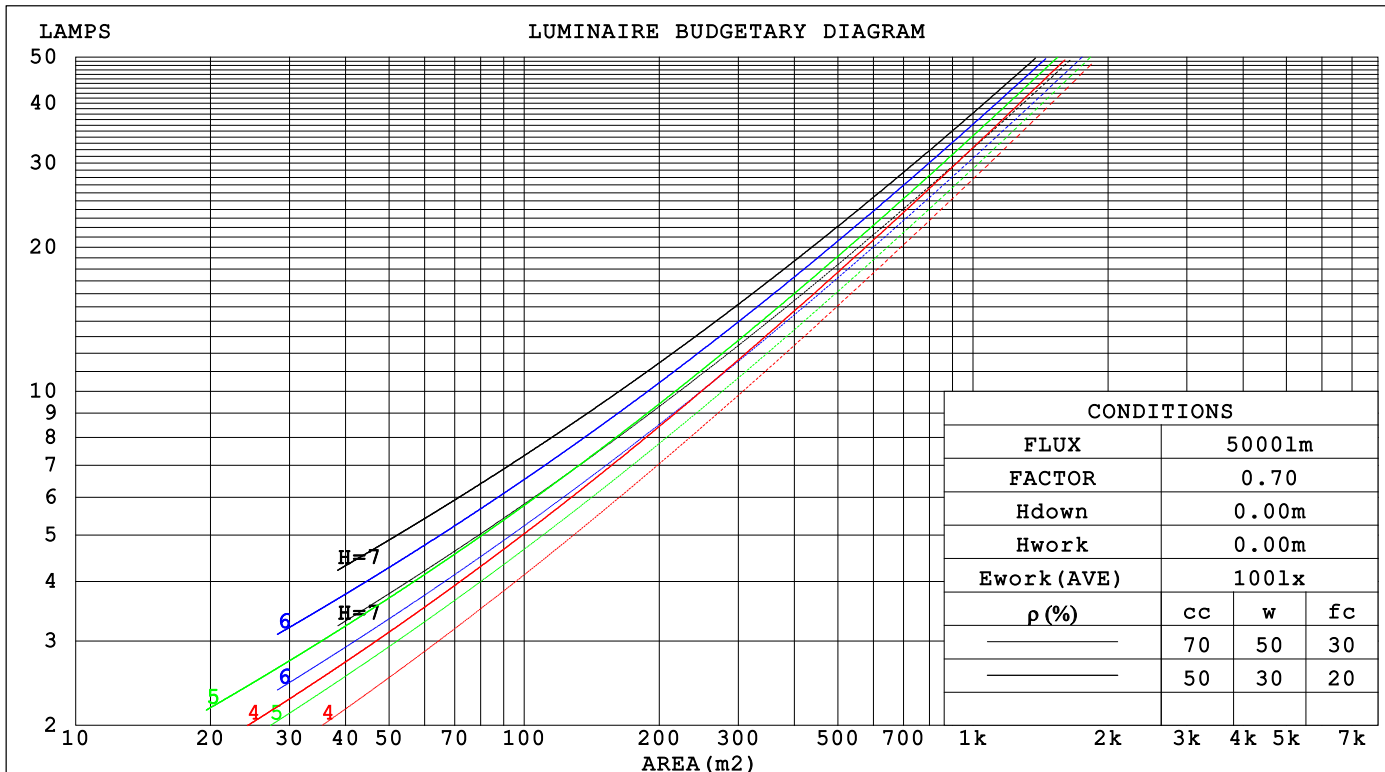
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 27.2°C
Operators: Alan Wang
Test Date: 2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 45.1%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.10V I:0.1939A P:23.033W PF:0.9892 Freq:60.01Hz Lamp Flux:3097.42x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	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															



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000:

WEC AND CCEC

Test:U:120.10V I:0.1939A P:23.033W PF:0.9892 Freq:60.01Hz Lamp Flux:3097.42x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	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	.313	.178	.056	.306	.174	.055	.292	.168	.054	.280	.162	.052	.269	.156	.050		
2.0	.294	.161	.050	.288	.159	.049	.276	.154	.048	.265	.149	.047	.255	.144	.046		
3.0	.272	.145	.043	.267	.143	.043	.256	.139	.042	.247	.135	.041	.238	.132	.041		
4.0	.251	.130	.038	.246	.129	.038	.237	.126	.038	.228	.123	.037	.220	.120	.036		
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.212	.112	.033	.204	.109	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030		
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027		
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.021		

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	.157	.135	.156	.135	.117	.106	.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	.166	.116	.075	.143	.100	.065	.098	.069	.046	.057	.040	.027	.018	.013	.009	
4.0	.159	.102	.059	.136	.089	.052	.094	.062	.036	.054	.036	.022	.017	.012	.007	
5.0	.151	.092	.048	.130	.080	.042	.089	.056	.030	.052	.033	.018	.017	.011	.006	
6.0	.144	.084	.040	.124	.072	.035	.085	.051	.025	.050	.030	.015	.016	.010	.005	
7.0	.137	.077	.034	.118	.067	.030	.082	.047	.021	.047	.027	.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	.107	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003	
10.0	.119	.062	.024	.103	.054	.021	.071	.038	.015	.041	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K

UGR(Unified Glare Rating) Table

Test:U:120.10V I:0.1939A P:23.033W PF:0.9892 Freq:60.01Hz Lamp Flux:3097.42x1 lm										
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K					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	22.3	23.9	22.6	24.1	24.3	23.1	24.6	23.3	24.8	25.0
3H	23.8	25.2	24.1	25.5	25.7	24.7	26.2	25.0	26.4	26.6
4H	24.4	25.7	24.7	26.0	26.3	25.4	26.7	25.7	27.0	27.3
6H	24.8	26.1	25.1	26.3	26.6	25.8	27.1	26.2	27.4	27.7
8H	24.9	26.1	25.3	26.4	26.7	26.0	27.2	26.3	27.5	27.8
12H	25.0	26.2	25.3	26.5	26.8	26.0	27.2	26.4	27.5	27.8
4H 2H	23.0	24.4	23.4	24.6	24.9	23.6	25.0	23.9	25.2	25.5
3H	24.7	25.9	25.0	26.2	26.5	25.5	26.6	25.8	26.9	27.3
4H	25.4	26.5	25.8	26.8	27.1	26.2	27.3	26.6	27.7	28.0
6H	25.9	26.9	26.3	27.2	27.6	26.8	27.8	27.2	28.1	28.5
8H	26.1	27.0	26.5	27.3	27.7	27.0	27.9	27.4	28.3	28.6
12H	26.2	27.0	26.6	27.4	27.8	27.1	27.9	27.5	28.3	28.7
8H 4H	25.7	26.6	26.1	27.0	27.4	26.5	27.4	26.9	27.7	28.1
6H	26.4	27.1	26.8	27.5	27.9	27.2	27.9	27.6	28.3	28.8
8H	26.6	27.3	27.1	27.7	28.2	27.4	28.1	27.9	28.5	29.0
12H	26.8	27.3	27.3	27.8	28.3	27.6	28.2	28.1	28.6	29.1
12H 4H	25.7	26.5	26.2	26.9	27.3	26.5	27.3	26.9	27.7	28.1
6H	26.4	27.1	26.9	27.5	28.0	27.2	27.9	27.7	28.3	28.8
8H	26.7	27.3	27.2	27.7	28.2	27.5	28.1	28.0	28.5	29.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 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, 3097 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.9)
Area: 0.05905 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K

UTILIZATION FACTORS TABLE

Test:U:120.10V I:0.1939A P:23.033W PF:0.9892 Freq:60.01Hz Lamp Flux:3097.42x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

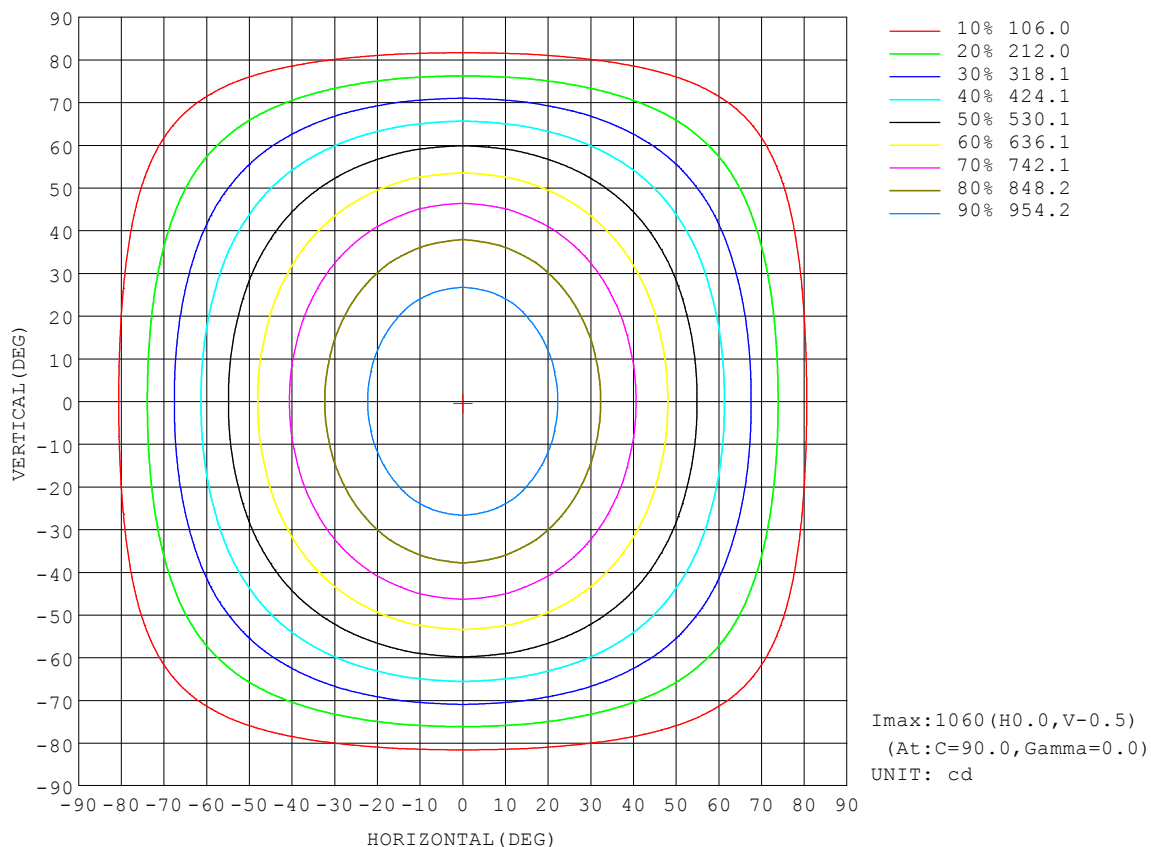
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	78
4.00	106	100	96	104	98	94	99	95	91	82
5.00	108	104	99	106	102	98	101	98	95	86
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: 27.2°C
Operators: Alan Wang
Test Date: 2026-04-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 45.1%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K

ISOCANDELA DIAGRAM

Test:U:120.10V I:0.1939A P:23.033W PF:0.9892 Freq:60.01Hz Lamp Flux:3097.42x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

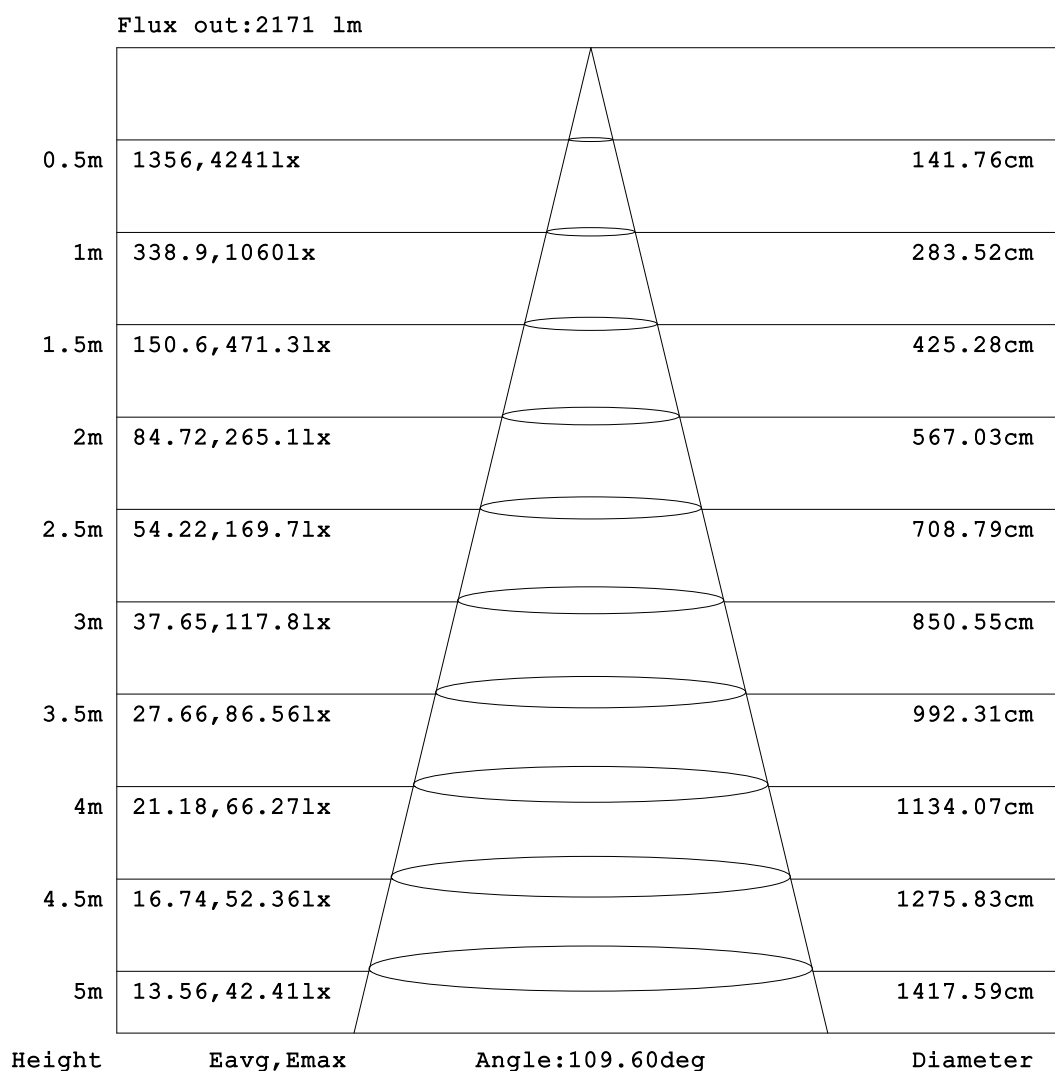


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K

AAI Figure

Test:U:120.10V I:0.1939A P:23.033W PF:0.9892 Freq:60.01Hz Lamp Flux:3097.42x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

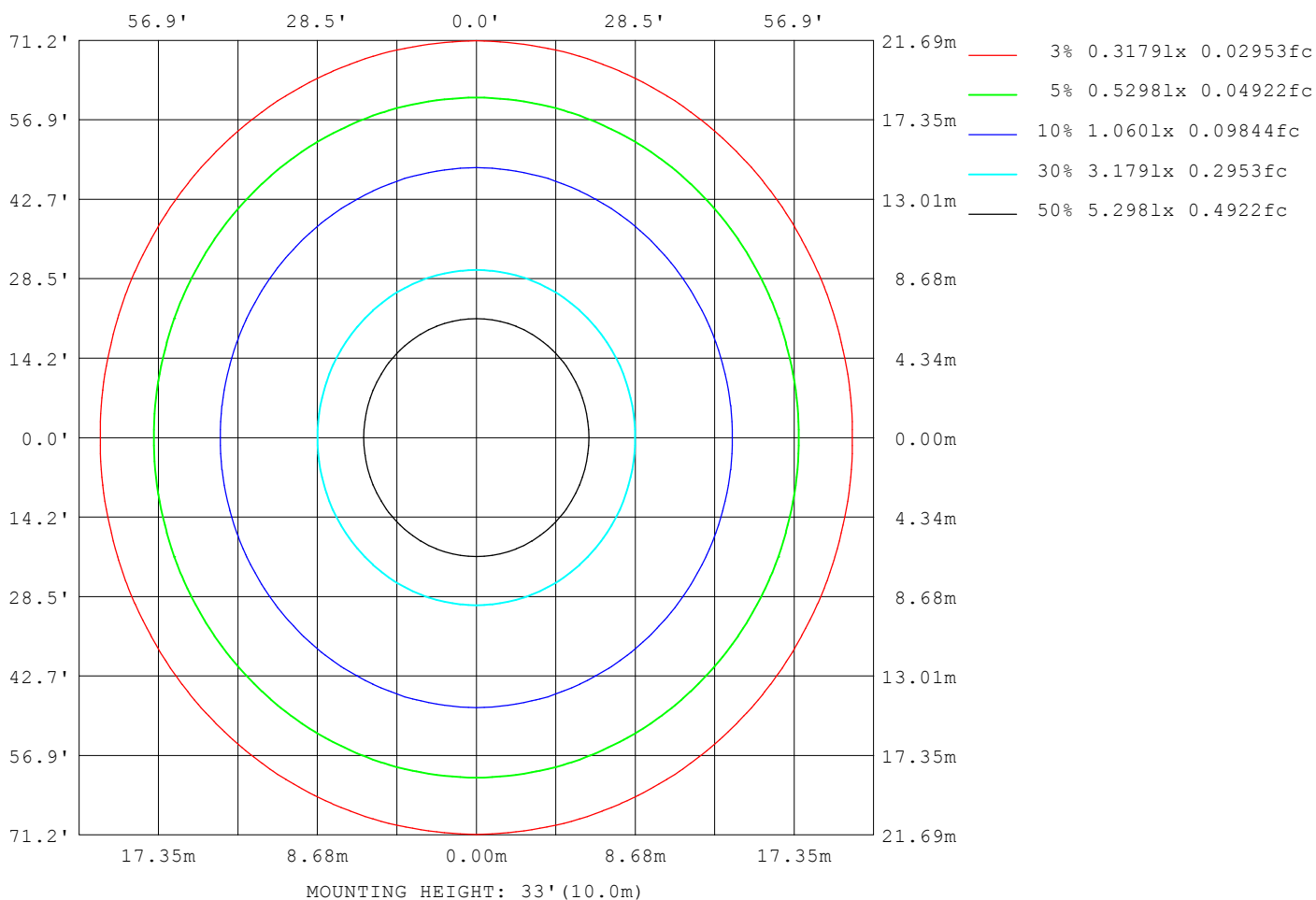


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K

ISOLUX DIAGRAM

Test:U:120.10V I:0.1939A P:23.033W PF:0.9892 Freq:60.01Hz Lamp Flux:3097.42x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	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:27.2°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K

LED Avg.L Report

Test:U:120.10V I:0.1939A P:23.033W PF:0.9892 Freq:60.01Hz Lamp Flux:3097.42x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

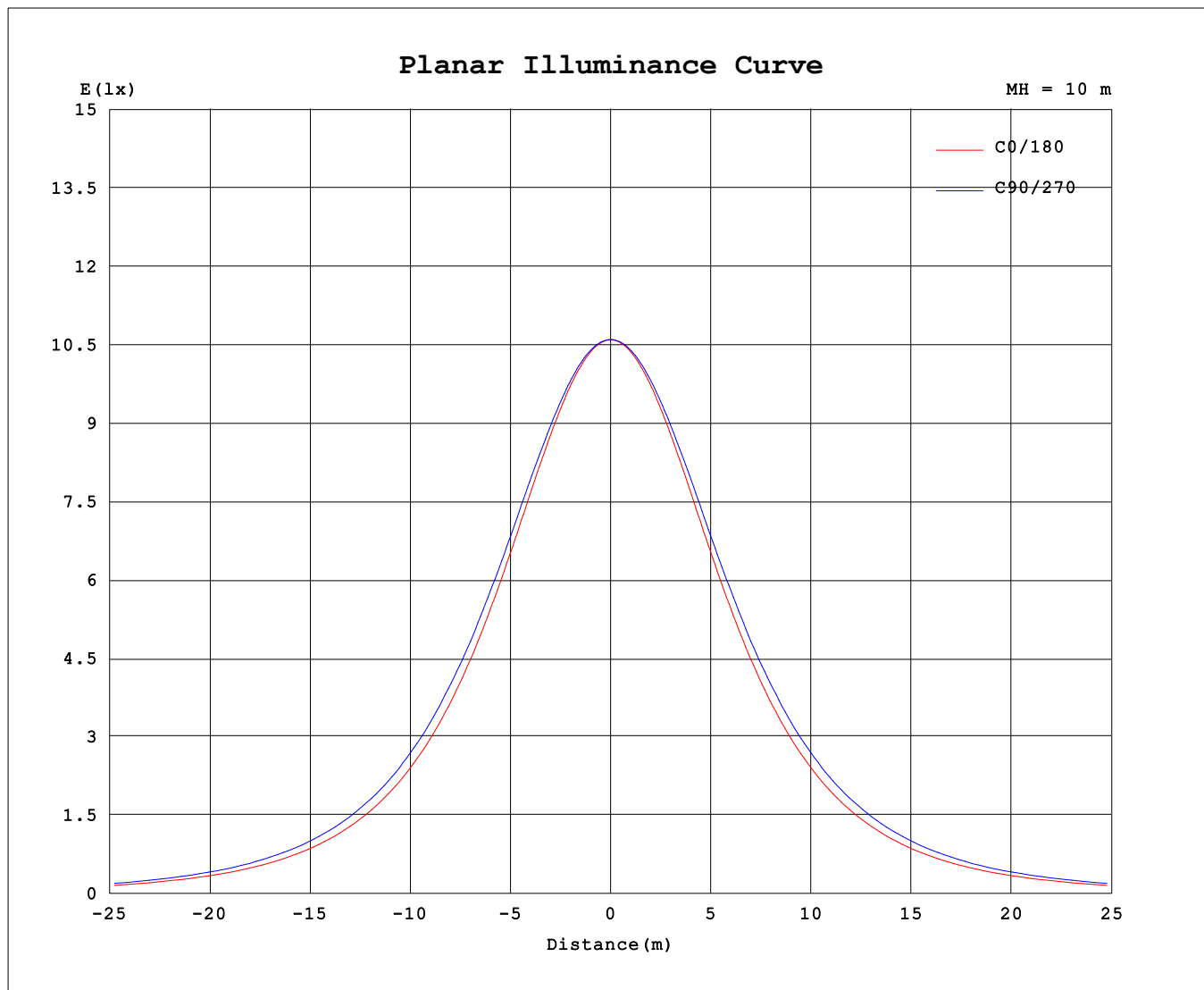
AvgL	cd/m2
L_0~180 (65) av	14493
L_0~180 (75) av	12680
L_0~180 (85) av	9055
L_90~270 (65) av	17504
L_90~270 (75) av	15473
L_90~270 (85) av	9689
L_45 (65) av	15837
L_45 (75) av	13893
L_45 (85) av	9630

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 27.2°C
Operators: Alan Wang
Test Date: 2026-04-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 45.1%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.10V I:0.1939A P:23.033W PF:0.9892 Freq:60.01Hz Lamp Flux:3097.42x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%-4000K	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	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060	1060
5	1054	1055	1055	1055	1056	1056	1056	1056	1056	1055	1055	1055	1054	1055	1055	1055	1056	1056	1056
10	1037	1038	1040	1041	1043	1045	1045	1045	1043	1041	1040	1038	1037	1038	1040	1041	1043	1045	1045
15	1010	1012	1014	1018	1023	1026	1027	1026	1023	1018	1014	1012	1010	1012	1014	1018	1023	1026	1027
20	974	975	980	987	994	999	1001	999	994	987	980	975	974	975	980	987	994	999	1001
25	928	931	937	947	958	965	968	965	958	947	937	931	928	931	937	947	958	965	968
30	875	877	887	900	912	923	927	923	912	900	887	877	875	877	887	900	912	923	927
35	815	819	829	845	862	874	878	874	862	845	829	819	815	819	829	845	862	874	878
40	750	753	766	783	802	819	824	819	802	783	766	753	750	753	766	783	802	819	824
45	680	684	697	717	738	753	761	753	738	717	697	684	680	684	697	717	738	753	761
50	606	610	624	644	666	683	690	683	666	644	624	610	606	610	624	644	666	683	690
55	528	533	546	566	587	605	613	605	587	566	546	533	528	533	546	566	587	605	613
60	446	450	464	483	504	521	527	521	504	483	464	450	446	450	464	483	504	521	527
65	362	365	377	395	415	430	437	430	415	395	377	365	362	365	377	395	415	430	437
70	277	280	289	304	321	333	338	333	321	304	289	280	277	280	289	304	321	333	338
75	194	195	202	212	224	234	236	234	224	212	202	195	194	195	202	212	224	234	236
80	115	116	119	125	131	136	137	136	131	125	119	116	115	116	119	125	131	136	137
85	46.6	45.9	47.7	49.6	50.4	50.7	49.9	50.7	50.4	49.6	47.7	45.9	46.6	45.9	47.7	49.6	50.4	50.7	49.9
90	6.96	5.54	5.75	5.98	5.34	4.46	4.23	4.46	5.34	5.98	5.75	5.54	6.96	5.54	5.75	5.98	5.34	4.46	4.23
95	0.18	0.18	0.17	0.17	0.18	0.21	0.22	0.21	0.18	0.17	0.17	0.18	0.18	0.18	0.17	0.17	0.18	0.21	0.22
100	0.26	0.26	0.25	0.24	0.24	0.22	0.22	0.22	0.24	0.24	0.25	0.26	0.26	0.26	0.25	0.24	0.24	0.22	0.22
105	0.33	0.34	0.33	0.32	0.32	0.30	0.29	0.30	0.32	0.32	0.33	0.34	0.33	0.34	0.33	0.32	0.32	0.30	0.29
110	0.39	0.40	0.39	0.39	0.38	0.36	0.36	0.36	0.38	0.39	0.39	0.40	0.39	0.40	0.39	0.39	0.38	0.36	0.36
115	0.47	0.48	0.46	0.46	0.45	0.44	0.42	0.44	0.45	0.46	0.46	0.48	0.47	0.48	0.46	0.46	0.45	0.44	0.42
120	0.54	0.56	0.54	0.53	0.52	0.50	0.49	0.50	0.52	0.53	0.54	0.56	0.54	0.56	0.54	0.53	0.52	0.50	0.49
125	0.64	0.65	0.62	0.60	0.59	0.58	0.58	0.58	0.59	0.60	0.62	0.65	0.64	0.65	0.62	0.60	0.59	0.58	0.58
130	0.81	0.81	0.78	0.75	0.74	0.74	0.73	0.74	0.74	0.75	0.78	0.81	0.81	0.81	0.78	0.75	0.74	0.74	0.73
135	1.01	1.01	0.96	0.94	0.92	0.93	0.92	0.93	0.92	0.94	0.96	1.01	1.01	1.01	0.96	0.94	0.92	0.93	0.92
140	1.27	1.26	1.22	1.20	1.19	1.18	1.16	1.18	1.19	1.20	1.22	1.26	1.27	1.26	1.22	1.20	1.19	1.18	1.16
145	1.55	1.54	1.50	1.46	1.46	1.46	1.43	1.46	1.46	1.46	1.50	1.54	1.55	1.54	1.50	1.46	1.46	1.46	1.43
150	1.82	1.79	1.77	1.70	1.66	1.65	1.66	1.65	1.66	1.70	1.77	1.79	1.82	1.79	1.77	1.70	1.66	1.65	1.66
155	1.99	1.97	1.92	1.86	1.80	1.81	1.82	1.81	1.80	1.86	1.92	1.97	1.99	1.97	1.92	1.86	1.80	1.81	1.82
160	2.05	2.04	1.98	1.93	1.88	1.88	1.89	1.88	1.88	1.93	1.98	2.04	2.05	2.04	1.98	1.93	1.88	1.88	1.89
165	2.04	2.04	1.98	1.92	1.90	1.89	1.90	1.89	1.90	1.92	1.98	2.04	2.04	2.04	1.98	1.92	1.90	1.89	1.90
170	2.02	2.04	1.99	1.95	1.92	1.91	1.91	1.91	1.92	1.95	1.99	2.04	2.02	2.04	1.99	1.95	1.92	1.91	1.91
175	2.03	2.06	2.01	1.98	1.95	1.93	1.92	1.93	1.95	1.98	2.01	2.06	2.03	2.06	2.01	1.98	1.95	1.93	1.92
180	2.12	2.09	2.02	1.99	1.97	1.94	1.93	1.94	1.97	1.99	2.02	2.09	2.12	2.09	2.02	1.99	1.97	1.94	1.93

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%-4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.10V I:0.1939A P:23.033W PF:0.9892 Freq:60.01Hz Lamp Flux:3097.42x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	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	1060	1060	1060	1060	1060														
5	1056	1056	1055	1055	1055														
10	1045	1043	1041	1040	1038														
15	1026	1023	1018	1014	1012														
20	999	994	987	980	975														
25	965	958	947	937	931														
30	923	912	900	887	877														
35	874	862	845	829	819														
40	819	802	783	766	753														
45	753	738	717	697	684														
50	683	666	644	624	610														
55	605	587	566	546	533														
60	521	504	483	464	450														
65	430	415	395	377	365														
70	333	321	304	289	280														
75	234	224	212	202	195														
80	136	131	125	119	116														
85	50.7	50.4	49.6	47.7	45.9														
90	4.46	5.34	5.98	5.75	5.54														
95	0.21	0.18	0.17	0.17	0.18														
100	0.22	0.24	0.24	0.25	0.26														
105	0.30	0.32	0.32	0.33	0.34														
110	0.36	0.38	0.39	0.39	0.40														
115	0.44	0.45	0.46	0.46	0.48														
120	0.50	0.52	0.53	0.54	0.56														
125	0.58	0.59	0.60	0.62	0.65														
130	0.74	0.74	0.75	0.78	0.81														
135	0.93	0.92	0.94	0.96	1.01														
140	1.18	1.19	1.20	1.22	1.26														
145	1.46	1.46	1.46	1.50	1.54														
150	1.65	1.66	1.70	1.77	1.79														
155	1.81	1.80	1.86	1.92	1.97														
160	1.88	1.88	1.93	1.98	2.04														
165	1.89	1.90	1.92	1.98	2.04														
170	1.91	1.92	1.95	1.99	2.04														
175	1.93	1.95	1.98	2.01	2.06														
180	1.94	1.97	1.99	2.02	2.09														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:45.1%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000: