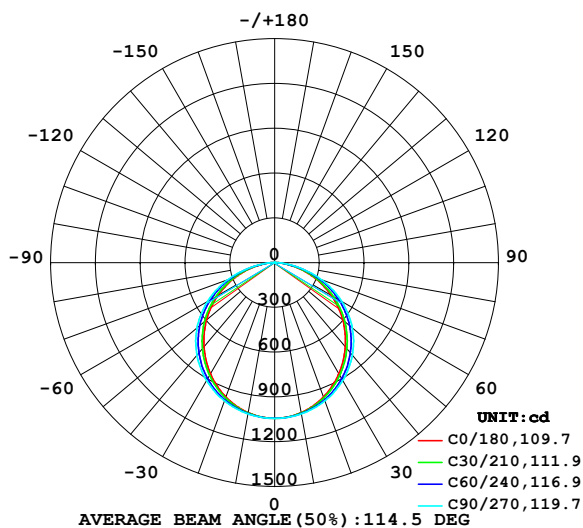


LUMINAIRE PHOTOMETRIC TEST REPORT

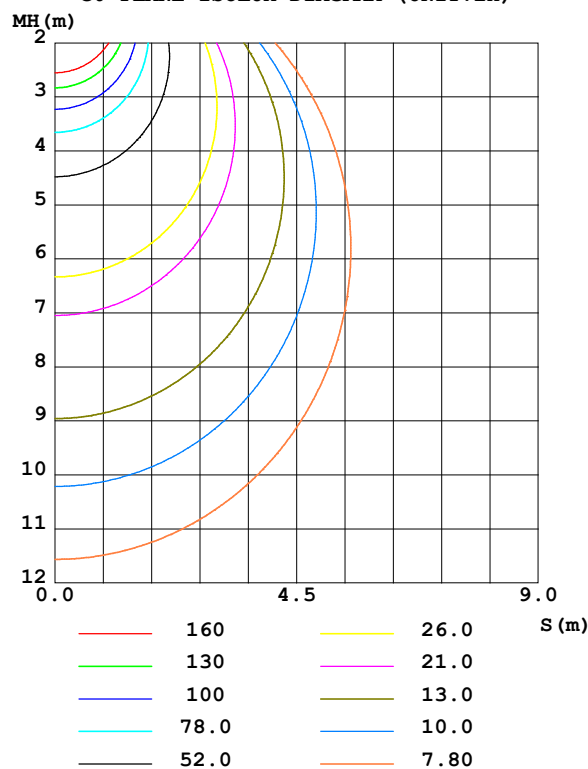
Test:U:120.24V I:0.1914A P:22.751W PF:0.9888 Freq:60.01Hz Lamp Flux:3045.59x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 133.87 lm/W
MODEL		I _{max} (cd)	1044	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)	3045.6	η UP,DN(C0-180)	0.1,49.9	
NOMINAL FLUX(lm)	3045.59	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)	120.251	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: 27.6°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: 44.0%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

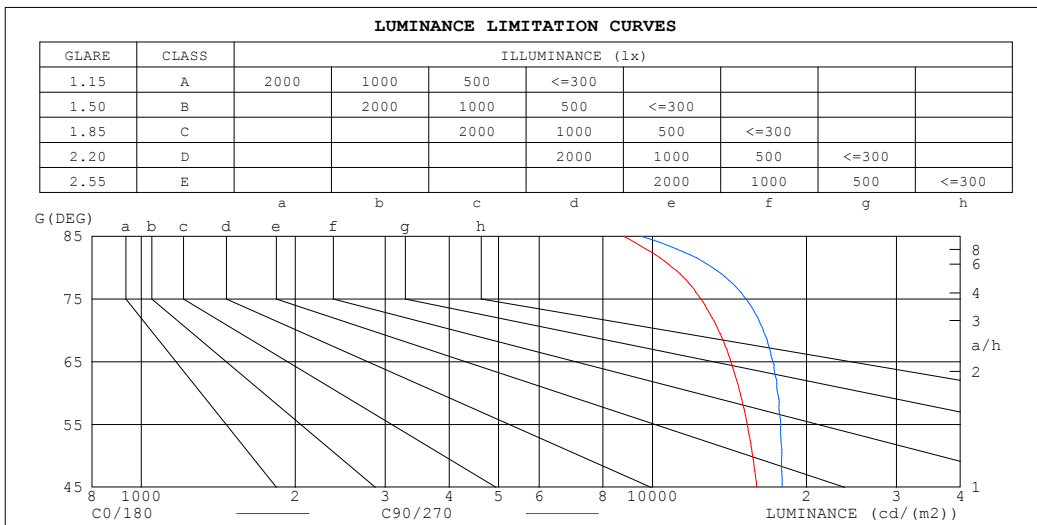
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1021	1025	1029	1025	1021	1025	1029	1025	0- 10	98.73	98.73	3.24,3.24
20	957.8	971.2	984.9	971.2	957.8	971.2	984.9	971.2	10- 20	282.9	381.7	12.5,12.5
30	860.2	885.2	912.3	885.2	860.2	885.2	912.3	885.2	20- 30	429.7	811.4	26.6,26.6
40	737.1	770.7	810.5	770.7	737.1	770.7	810.5	770.7	30- 40	520.5	1332	43.7,43.7
50	596.0	633.0	679.4	633.0	596.0	633.0	679.4	633.0	40- 50	544.8	1877	61.6,61.6
60	438.0	475.0	518.6	475.0	438.0	475.0	518.6	475.0	50- 60	498.9	2376	78,78
70	271.9	298.6	332.6	298.6	271.9	298.6	332.6	298.6	60- 70	385.6	2761	90.7,90.7
80	112.2	122.1	134.4	122.1	112.2	122.1	134.4	122.1	70- 80	222.1	2983	98,98
90	5.902	4.663	3.277	4.663	5.902	4.663	3.277	4.663	80- 90	57.02	3040	99.8,99.8
100	0.2627	0.2523	0.2277	0.2523	0.2627	0.2523	0.2277	0.2523	90-100	0.7077	3041	99.9,99.9
110	0.3884	0.3836	0.3536	0.3836	0.3884	0.3836	0.3536	0.3836	100-110	0.3371	3041	99.9,99.9
120	0.5369	0.5222	0.4848	0.5222	0.5369	0.5222	0.4848	0.5222	110-120	0.4454	3042	99.9,99.9
130	0.8031	0.7482	0.7299	0.7482	0.8031	0.7482	0.7299	0.7482	120-130	0.5527	3042	99.9,99.9
140	1.254	1.190	1.156	1.190	1.254	1.190	1.156	1.190	130-140	0.7402	3043	99.9,99.9
150	1.796	1.686	1.656	1.686	1.796	1.686	1.656	1.686	140-150	0.9103	3044	99.9,99.9
160	2.016	1.909	1.859	1.909	2.016	1.909	1.859	1.909	150-160	0.8499	3045	100,100
170	1.990	1.909	1.868	1.909	1.990	1.909	1.868	1.909	160-170	0.5434	3045	100,100
180	2.084	1.960	1.907	1.960	2.084	1.960	1.907	1.960	170-180	0.1851	3046	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6℃
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:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500:

LUMINANCE LIMITATION CURVES

Test:U:120.24V I:0.1914A P:22.751W PF:0.9888 Freq:60.01Hz Lamp Flux:3045.59x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	8785	9492
80	10940	13104
75	12437	15223
70	13461	16469
65	14228	17193
60	14836	17563
55	15313	17814
50	15701	17899
45	16001	17934

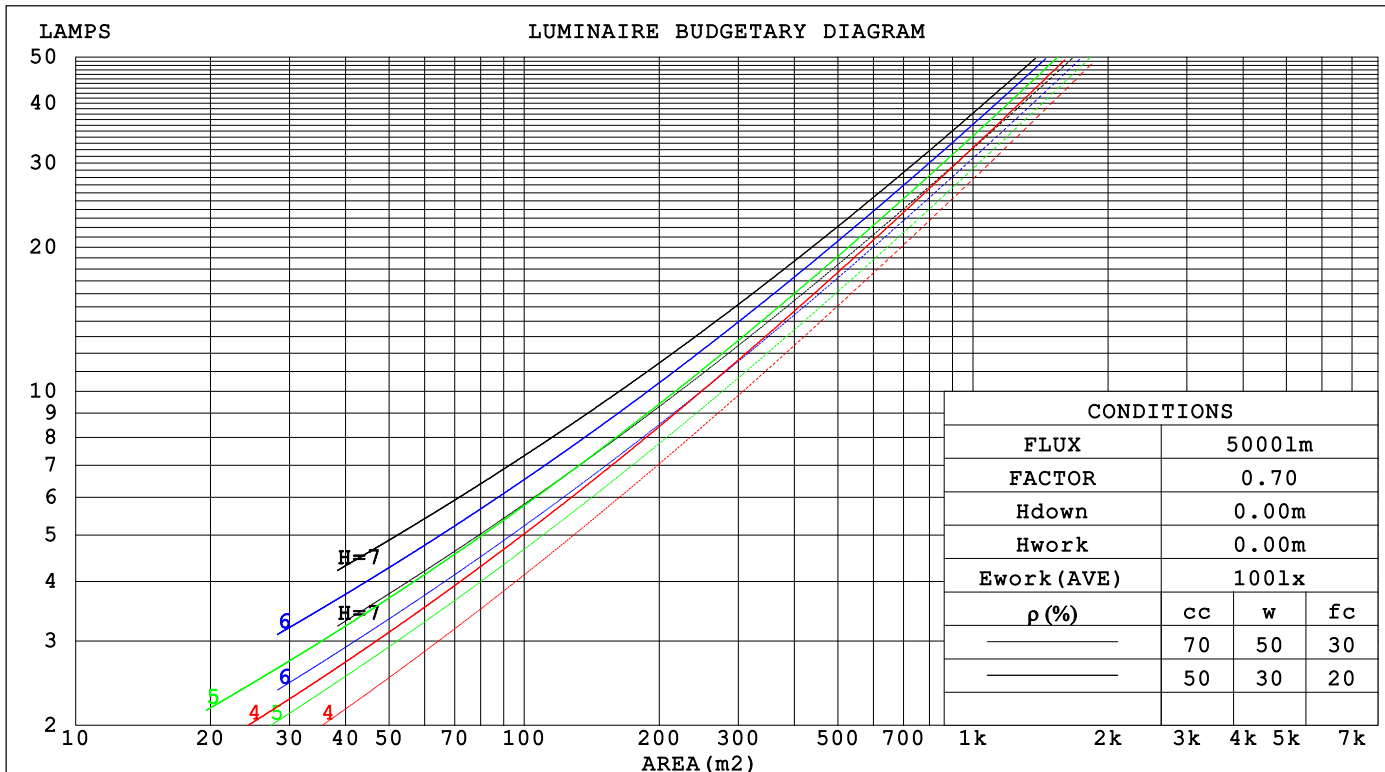
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 27.6°C
Operators: Alan Wang
Test Date: 2026-04-27

γ Range: 0 - 180DEG
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Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 44.0%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.24V I:0.1914A P:22.751W PF:0.9888 Freq:60.01Hz Lamp Flux:3045.59x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	.90	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.40	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.41	.33	.28	.40	.33	.28	.39	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6°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:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

WEC AND CCEC

Test:U:120.24V I:0.1914A P:22.751W PF:0.9888 Freq:60.01Hz Lamp Flux:3045.59x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	.313	.178	.056	.305	.174	.055	.292	.168	.053	.280	.161	.052	.268	.156	.050		
2.0	.294	.161	.049	.288	.159	.049	.276	.154	.048	.265	.149	.047	.255	.144	.045		
3.0	.272	.145	.043	.267	.143	.043	.256	.139	.042	.246	.135	.041	.237	.131	.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	.088	.052	.094	.062	.036	.054	.036	.021	.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	.025	.011	.015	.008	.004		
9.0	.125	.066	.026	.107	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003		
10.0	.119	.062	.024	.102	.054	.021	.071	.038	.015	.041	.022	.009	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6℃
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:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500

UGR(Unified Glare Rating) Table

Test:U:120.24V I:0.1914A P:22.751W PF:0.9888 Freq:60.01Hz Lamp Flux:3045.59x1 lm											
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	2H	22.3	23.8	22.5	24.0	24.2	23.0	24.6	23.3	24.8	25.0
	3H	23.7	25.2	24.0	25.4	25.6	24.7	26.1	25.0	26.3	26.6
	4H	24.3	25.7	24.6	25.9	26.2	25.3	26.7	25.7	26.9	27.2
	6H	24.7	26.0	25.1	26.3	26.6	25.8	27.1	26.1	27.3	27.6
	8H	24.8	26.1	25.2	26.4	26.7	25.9	27.1	26.2	27.4	27.7
	12H	24.9	26.1	25.3	26.4	26.7	25.9	27.1	26.3	27.4	27.7
4H	2H	23.0	24.3	23.3	24.6	24.8	23.6	24.9	23.9	25.2	25.4
	3H	24.6	25.8	25.0	26.1	26.4	25.4	26.6	25.8	26.9	27.2
	4H	25.3	26.4	25.7	26.7	27.1	26.2	27.3	26.6	27.6	27.9
	6H	25.8	26.8	26.2	27.2	27.5	26.8	27.7	27.2	28.1	28.5
	8H	26.0	26.9	26.4	27.3	27.7	26.9	27.8	27.4	28.2	28.6
	12H	26.1	26.9	26.5	27.3	27.7	27.0	27.9	27.5	28.2	28.6
8H	4H	25.6	26.5	26.1	26.9	27.3	26.4	27.3	26.8	27.7	28.1
	6H	26.3	27.0	26.7	27.4	27.9	27.1	27.9	27.6	28.3	28.7
	8H	26.5	27.2	27.0	27.6	28.1	27.4	28.0	27.8	28.5	28.9
	12H	26.7	27.3	27.2	27.7	28.2	27.5	28.1	28.0	28.5	29.0
12H	4H	25.7	26.5	26.1	26.9	27.3	26.4	27.2	26.8	27.6	28.0
	6H	26.4	27.0	26.8	27.5	27.9	27.2	27.8	27.6	28.3	28.7
	8H	26.6	27.2	27.1	27.7	28.1	27.4	28.0	27.9	28.5	28.9
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, 3046 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:27.6°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:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

UTILIZATION FACTORS TABLE

Test:U:120.24V I:0.1914A P:22.751W PF:0.9888 Freq:60.01Hz Lamp Flux:3045.59x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

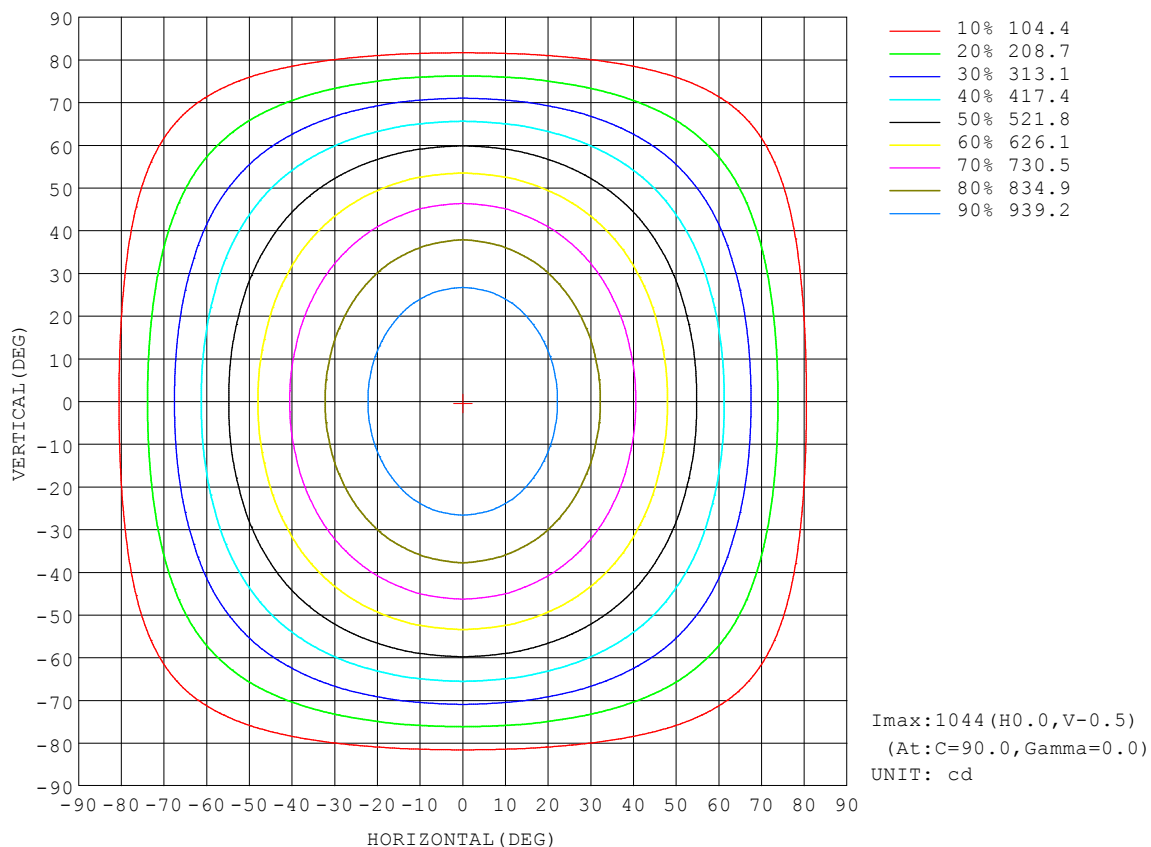
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	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	97	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	91	86	78
4.00	106	100	96	104	98	94	99	95	91	83
5.00	108	104	100	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: 27.6°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: 44.0%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

ISOCANDELA DIAGRAM

Test:U:120.24V I:0.1914A P:22.751W PF:0.9888 Freq:60.01Hz Lamp Flux:3045.59x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

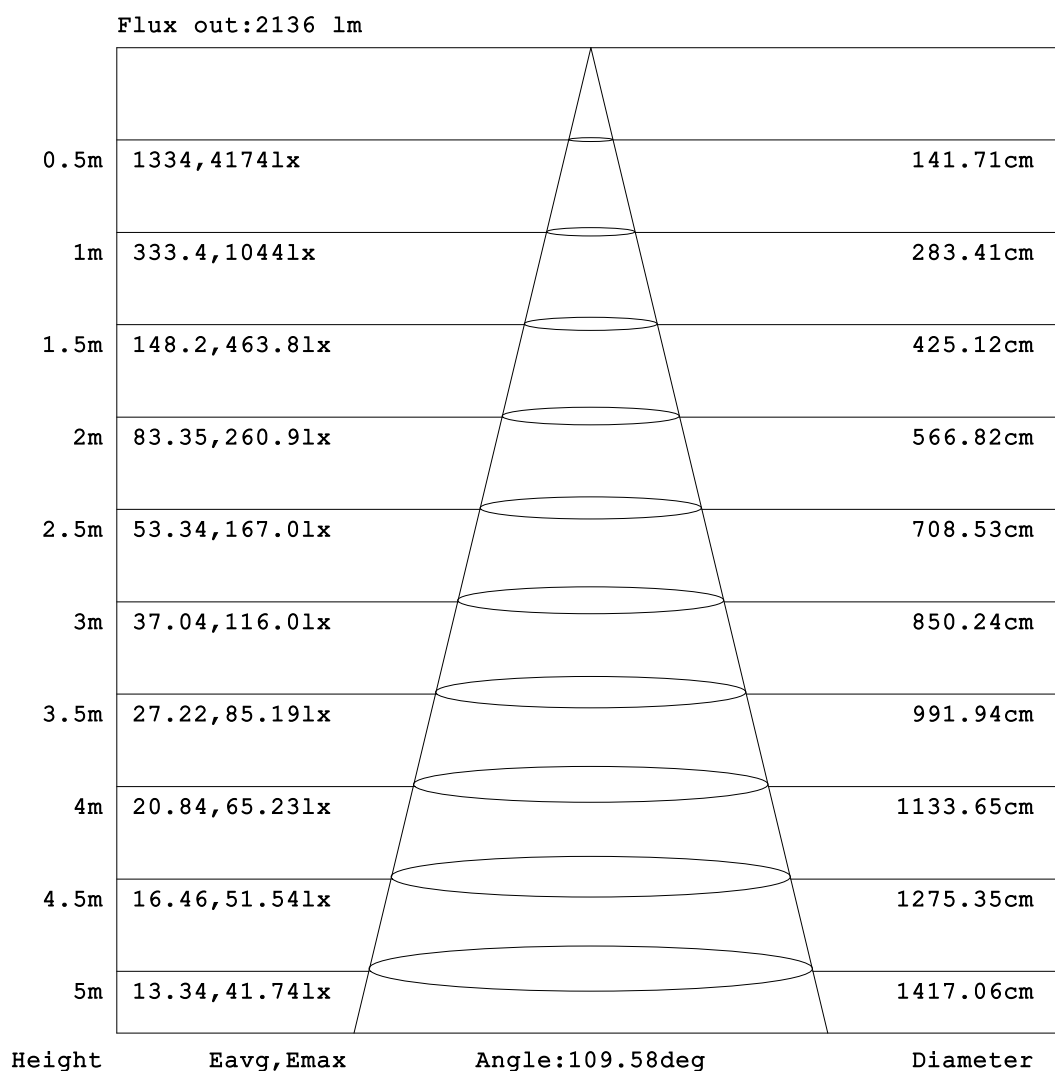


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
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Humidity:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

AAI Figure

Test:U:120.24V I:0.1914A P:22.751W PF:0.9888 Freq:60.01Hz Lamp Flux:3045.59x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



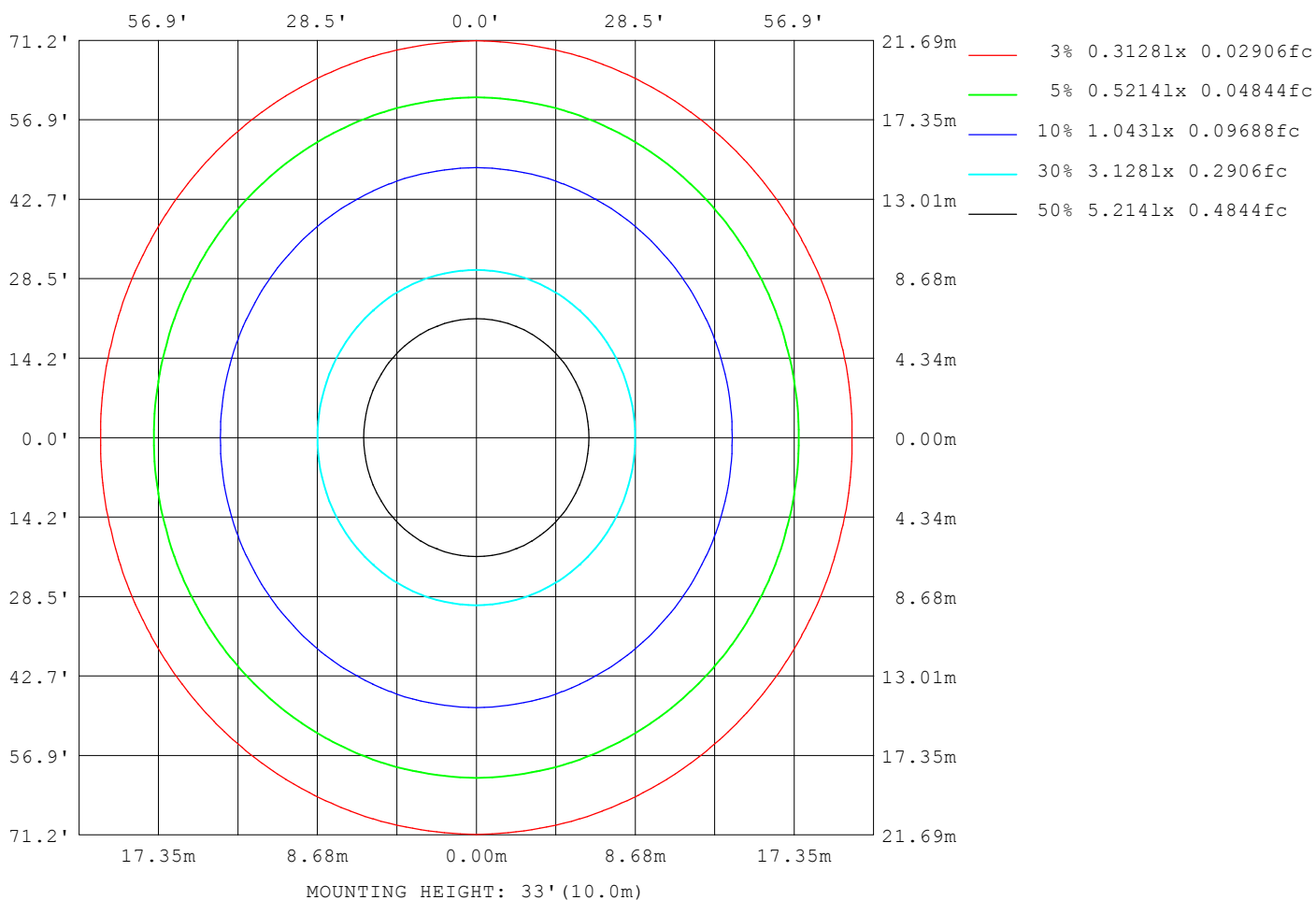
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:27.6°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:44.0%
 Test Distance:1.900m [K=1.0924]
 Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

ISOLUX DIAGRAM

Test:U:120.24V I:0.1914A P:22.751W PF:0.9888 Freq:60.01Hz Lamp Flux:3045.59x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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:27.6°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:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

LED Avg.L Report

Test:U:120.24V I:0.1914A P:22.751W PF:0.9888 Freq:60.01Hz Lamp Flux:3045.59x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

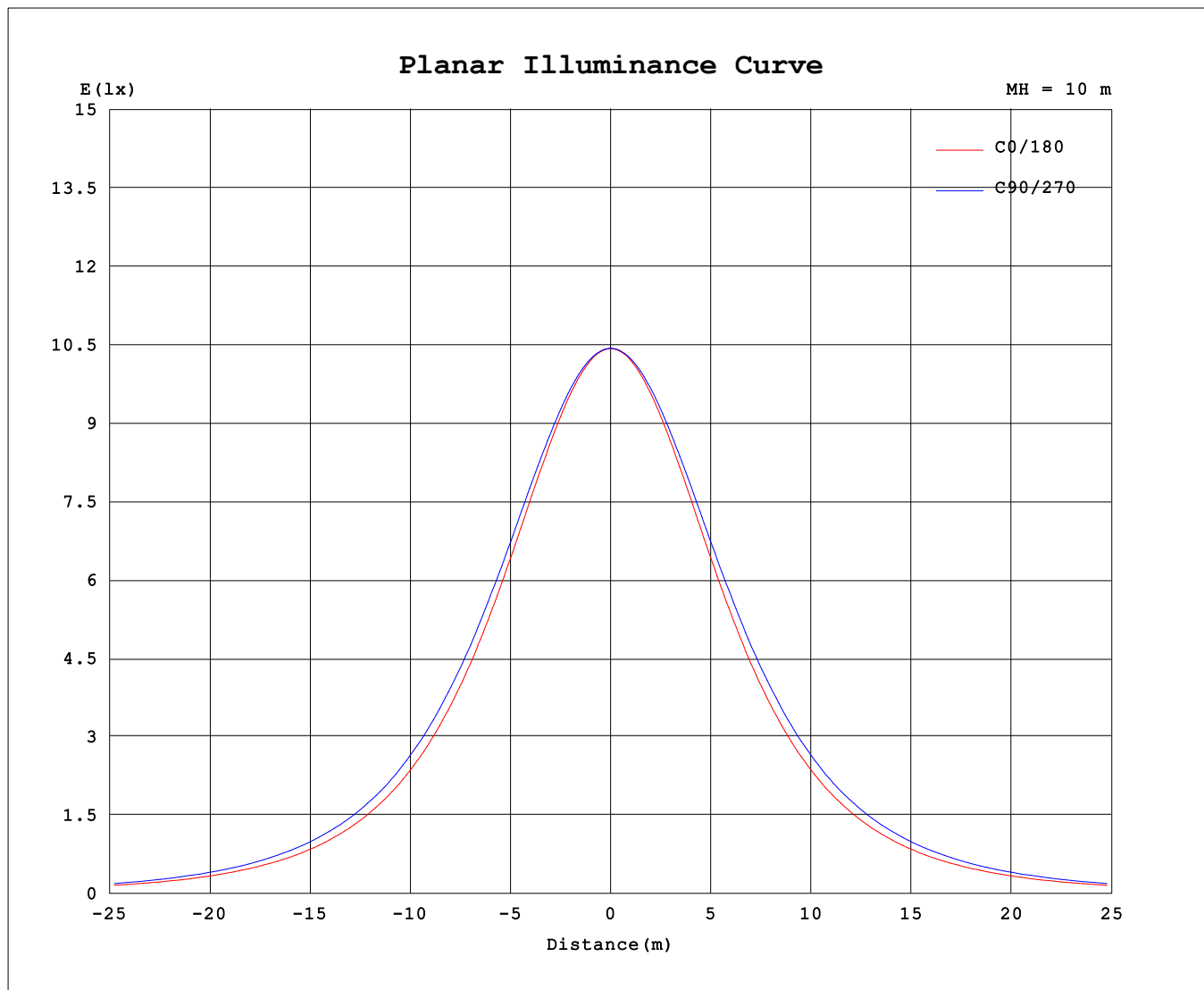
AvgL	cd/m2
L_0~180 (65) av	14228
L_0~180 (75) av	12437
L_0~180 (85) av	8785
L_90~270 (65) av	17193
L_90~270 (75) av	15223
L_90~270 (85) av	9492
L_45 (65) av	15572
L_45 (75) av	13647
L_45 (85) av	9187

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6℃
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:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 27.6°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: 44.0%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500l

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.24V I:0.1914A P:22.751W PF:0.9888 Freq:60.01Hz Lamp Flux:3045.59x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	1043	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044	1044	1043	1044	1044	1044	1044	1044	1044
5	1037	1038	1039	1039	1039	1040	1040	1040	1039	1039	1039	1038	1037	1038	1039	1039	1039	1040	1040
10	1021	1022	1023	1025	1027	1028	1029	1028	1027	1025	1023	1022	1021	1022	1023	1025	1027	1028	1029
15	994	996	998	1002	1007	1009	1011	1009	1007	1002	998	996	994	996	998	1002	1007	1009	1011
20	958	960	965	971	978	983	985	983	978	971	965	960	958	960	965	971	978	983	985
25	913	915	922	932	943	950	952	950	943	932	922	915	913	915	922	932	943	950	952
30	860	863	872	885	898	908	912	908	898	885	872	863	860	863	872	885	898	908	912
35	801	805	816	831	848	860	864	860	848	831	816	805	801	805	816	831	848	860	864
40	737	741	753	771	790	806	810	806	790	771	753	741	737	741	753	771	790	806	810
45	668	673	686	705	726	742	749	742	726	705	686	673	668	673	686	705	726	742	749
50	596	600	613	633	655	672	679	672	655	633	613	600	596	600	613	633	655	672	679
55	519	524	537	556	578	595	603	595	578	556	537	524	519	524	537	556	578	595	603
60	438	442	456	475	496	513	519	513	496	475	456	442	438	442	456	475	496	513	519
65	355	359	371	389	408	423	429	423	408	389	371	359	355	359	371	389	408	423	429
70	272	275	284	299	315	328	333	328	315	299	284	275	272	275	284	299	315	328	333
75	190	192	198	209	220	230	233	230	220	209	198	192	190	192	198	209	220	230	233
80	112	113	117	122	128	133	134	133	128	122	117	113	112	113	117	122	128	133	134
85	45.2	44.6	45.5	47.3	48.5	49.0	48.9	49.0	48.5	47.3	45.5	44.6	45.2	44.6	45.5	47.3	48.5	49.0	48.9
90	5.90	5.09	4.70	4.66	3.72	3.14	3.28	3.14	3.72	4.66	4.70	5.09	5.90	5.09	4.70	4.66	3.72	3.14	3.28
95	0.18	0.19	0.18	0.17	0.17	0.19	0.19	0.19	0.17	0.17	0.18	0.19	0.18	0.19	0.18	0.17	0.17	0.19	0.19
100	0.26	0.27	0.26	0.25	0.25	0.23	0.23	0.23	0.25	0.25	0.26	0.27	0.26	0.27	0.26	0.25	0.25	0.23	0.23
105	0.32	0.34	0.32	0.32	0.31	0.30	0.29	0.30	0.31	0.32	0.32	0.34	0.32	0.34	0.32	0.32	0.31	0.30	0.29
110	0.39	0.40	0.39	0.38	0.37	0.36	0.35	0.36	0.37	0.38	0.39	0.40	0.39	0.40	0.39	0.38	0.37	0.36	0.35
115	0.46	0.47	0.46	0.45	0.44	0.43	0.42	0.43	0.44	0.45	0.46	0.47	0.46	0.47	0.46	0.45	0.44	0.43	0.42
120	0.54	0.55	0.53	0.52	0.51	0.49	0.48	0.49	0.51	0.52	0.53	0.55	0.54	0.55	0.53	0.52	0.51	0.49	0.48
125	0.63	0.64	0.62	0.60	0.59	0.58	0.58	0.58	0.59	0.60	0.62	0.64	0.63	0.64	0.62	0.60	0.59	0.58	0.58
130	0.80	0.81	0.77	0.75	0.74	0.74	0.73	0.74	0.74	0.75	0.77	0.81	0.80	0.81	0.77	0.75	0.74	0.74	0.73
135	1.00	1.00	0.96	0.93	0.92	0.92	0.91	0.92	0.92	0.93	0.96	1.00	1.00	1.00	0.96	0.93	0.92	0.92	0.91
140	1.25	1.25	1.22	1.19	1.18	1.17	1.16	1.17	1.18	1.19	1.22	1.25	1.25	1.25	1.22	1.19	1.18	1.17	1.16
145	1.53	1.53	1.49	1.45	1.45	1.44	1.41	1.44	1.45	1.45	1.49	1.53	1.53	1.53	1.49	1.45	1.45	1.44	1.41
150	1.80	1.78	1.74	1.69	1.64	1.64	1.66	1.64	1.64	1.69	1.74	1.78	1.80	1.78	1.74	1.69	1.64	1.64	1.66
155	1.96	1.94	1.89	1.84	1.78	1.79	1.80	1.79	1.78	1.84	1.89	1.94	1.96	1.94	1.89	1.84	1.78	1.79	1.80
160	2.02	2.01	1.95	1.91	1.85	1.86	1.86	1.86	1.85	1.91	1.95	2.01	2.02	2.01	1.95	1.91	1.85	1.86	1.86
165	2.01	2.00	1.94	1.89	1.86	1.86	1.86	1.86	1.86	1.89	1.94	2.00	2.01	2.00	1.94	1.89	1.86	1.86	1.86
170	1.99	2.00	1.95	1.91	1.89	1.87	1.87	1.87	1.89	1.91	1.95	2.00	1.99	2.00	1.95	1.91	1.89	1.87	1.87
175	2.00	2.02	1.97	1.94	1.91	1.89	1.88	1.89	1.91	1.94	1.97	2.02	2.00	2.02	1.97	1.94	1.91	1.89	1.88
180	2.08	2.05	1.99	1.96	1.94	1.92	1.91	1.92	1.94	1.96	1.99	2.05	2.08	2.05	1.99	1.96	1.94	1.92	1.91

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6℃
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:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.24V I:0.1914A P:22.751W PF:0.9888 Freq:60.01Hz Lamp Flux:3045.59x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	1044	1044	1044	1044	1044													
5	1040	1039	1039	1039	1038													
10	1028	1027	1025	1023	1022													
15	1009	1007	1002	998	996													
20	983	978	971	965	960													
25	950	943	932	922	915													
30	908	898	885	872	863													
35	860	848	831	816	805													
40	806	790	771	753	741													
45	742	726	705	686	673													
50	672	655	633	613	600													
55	595	578	556	537	524													
60	513	496	475	456	442													
65	423	408	389	371	359													
70	328	315	299	284	275													
75	230	220	209	198	192													
80	133	128	122	117	113													
85	49.0	48.5	47.3	45.5	44.6													
90	3.14	3.72	4.66	4.70	5.09													
95	0.19	0.17	0.17	0.18	0.19													
100	0.23	0.25	0.25	0.26	0.27													
105	0.30	0.31	0.32	0.32	0.34													
110	0.36	0.37	0.38	0.39	0.40													
115	0.43	0.44	0.45	0.46	0.47													
120	0.49	0.51	0.52	0.53	0.55													
125	0.58	0.59	0.60	0.62	0.64													
130	0.74	0.74	0.75	0.77	0.81													
135	0.92	0.92	0.93	0.96	1.00													
140	1.17	1.18	1.19	1.22	1.25													
145	1.44	1.45	1.45	1.49	1.53													
150	1.64	1.64	1.69	1.74	1.78													
155	1.79	1.78	1.84	1.89	1.94													
160	1.86	1.85	1.91	1.95	2.01													
165	1.86	1.86	1.89	1.94	2.00													
170	1.87	1.89	1.91	1.95	2.00													
175	1.89	1.91	1.94	1.97	2.02													
180	1.92	1.94	1.96	1.99	2.05													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6℃
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:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500: