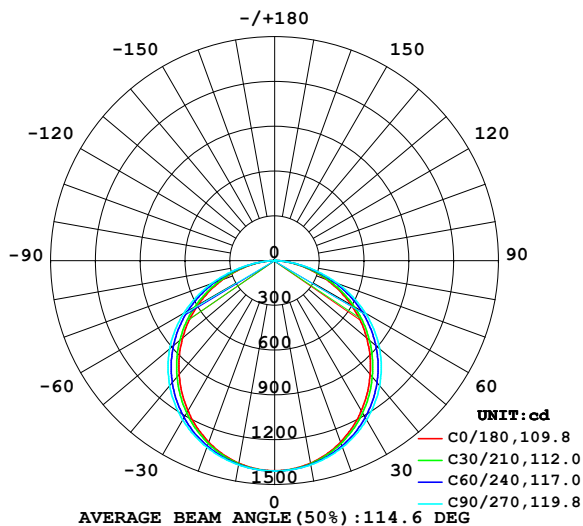


LUMINAIRE PHOTOMETRIC TEST REPORT

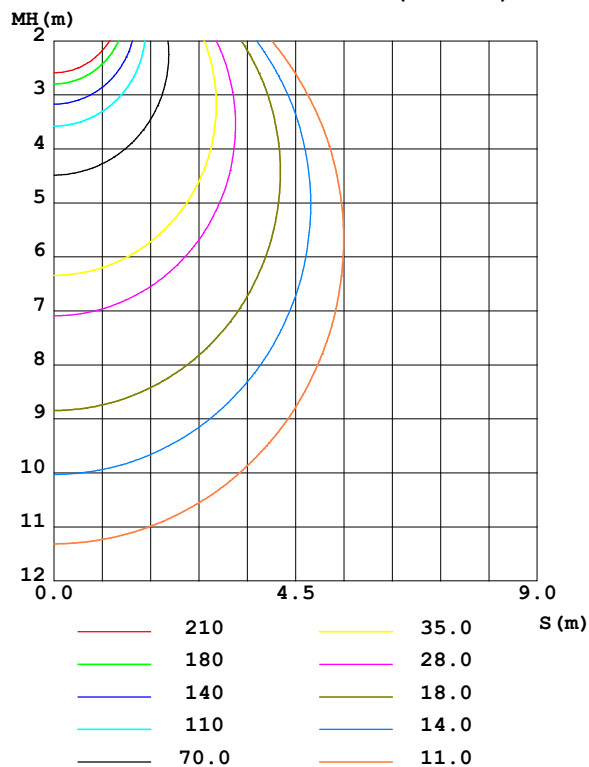
Test:U:120.12V I:0.2590A P:30.896W PF:0.9932 Freq:60.01Hz Lamp Flux:4117x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.26 lm/W			
MODEL		I _{max} (cd)	1409	S/MH(C0/180)	1.23
NOMINAL POWER(W)	32	LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	4117.0	η UP,DN(C0-180)	0.1,49.9
NOMINAL FLUX(lm)	4117	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℃
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_80%_4000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

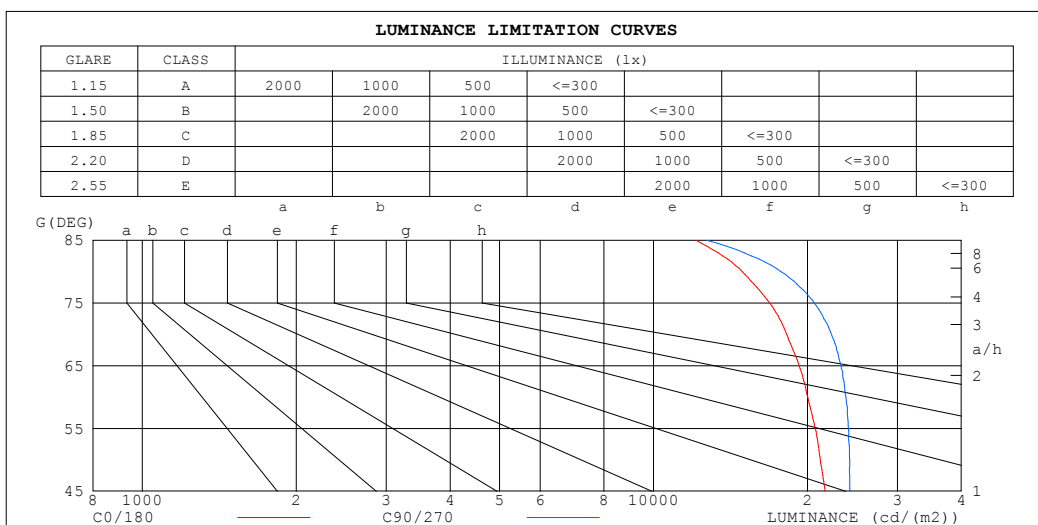
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1378	1384	1389	1384	1378	1384	1389	1384	0- 10	133.3	133.3	3.24,3.24
20	1293	1312	1330	1312	1293	1312	1330	1312	10- 20	382.1	515.4	12.5,12.5
30	1161	1196	1233	1196	1161	1196	1233	1196	20- 30	580.5	1096	26.6,26.6
40	995.3	1042	1095	1042	995.3	1042	1095	1042	30- 40	703.4	1799	43.7,43.7
50	804.6	856.0	919.2	856.0	804.6	856.0	919.2	856.0	40- 50	736.4	2536	61.6,61.6
60	591.1	642.3	701.9	642.3	591.1	642.3	701.9	642.3	50- 60	674.4	3210	78,78
70	367.7	403.7	450.0	403.7	367.7	403.7	450.0	403.7	60- 70	521.4	3731	90.6,90.6
80	152.8	165.6	182.1	165.6	152.8	165.6	182.1	165.6	70- 80	300.6	4032	97.9,97.9
90	10.33	6.413	2.915	6.413	10.33	6.413	2.915	6.413	80- 90	77.89	4110	99.8,99.8
100	0.3454	0.3434	0.3092	0.3434	0.3454	0.3434	0.3092	0.3434	90-100	0.9407	4111	99.9,99.9
110	0.5177	0.5134	0.4737	0.5134	0.5177	0.5134	0.4737	0.5134	100-110	0.4498	4111	99.9,99.9
120	0.7216	0.6986	0.6526	0.6986	0.7216	0.6986	0.6526	0.6986	110-120	0.5968	4112	99.9,99.9
130	1.082	1.019	0.9942	1.019	1.082	1.019	0.9942	1.019	120-130	0.7470	4113	99.9,99.9
140	1.687	1.610	1.566	1.610	1.687	1.610	1.566	1.610	130-140	1.005	4114	99.9,99.9
150	2.422	2.281	2.228	2.281	2.422	2.281	2.228	2.281	140-150	1.233	4115	99.9,99.9
160	2.722	2.565	2.497	2.565	2.722	2.565	2.497	2.565	150-160	1.147	4116	100,100
170	2.690	2.551	2.497	2.551	2.690	2.551	2.497	2.551	160-170	0.7295	4117	100,100
180	2.819	2.629	2.550	2.629	2.819	2.629	2.550	2.629	170-180	0.2480	4117	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_80%_4000:

LUMINANCE LIMITATION CURVES

Test:U:120.12V I:0.2590A P:30.896W PF:0.9932 Freq:60.01Hz Lamp Flux:4117x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_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	12118	12695
80	14899	17760
75	16868	20614
70	18207	22280
65	19262	23267
60	20022	23773
55	20714	24045
50	21199	24218
45	21656	24218

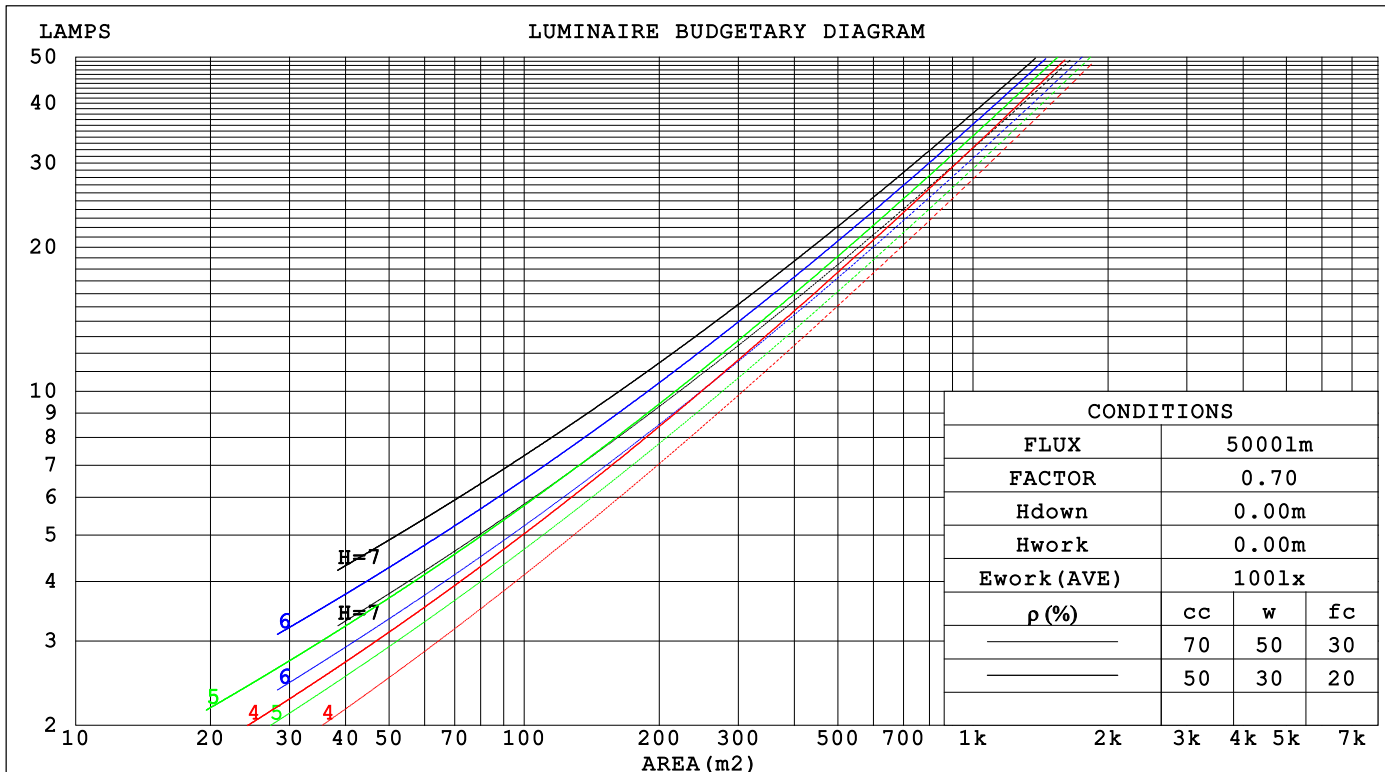
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 27.2°C
Operators: Alan Wang
Test Date: 2026-04-27

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_80%_4000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.12V I:0.2590A P:30.896W PF:0.9932 Freq:60.01Hz Lamp Flux:4117x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_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_80%_4000K

WEC AND CCEC

Test:U:120.12V I:0.2590A P:30.896W PF:0.9932 Freq:60.01Hz Lamp Flux:4117x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_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	.161	.052	.269	.156	.050		
2.0	.294	.161	.049	.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	.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:27.2℃
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_80%_4000K

UGR(Unified Glare Rating) Table

Test:U:120.12V I:0.2590A P:30.896W PF:0.9932 Freq:60.01Hz Lamp Flux:4117x1 lm										
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_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	23.3	24.8	23.6	25.0	25.3	24.1	25.6	24.3	25.8	26.0
3H	24.8	26.2	25.1	26.4	26.7	25.7	27.2	26.0	27.4	27.6
4H	25.4	26.7	25.7	27.0	27.2	26.4	27.7	26.7	28.0	28.3
6H	25.8	27.0	26.1	27.3	27.6	26.8	28.1	27.2	28.4	28.7
8H	25.9	27.1	26.2	27.4	27.7	27.0	28.2	27.3	28.5	28.8
12H	26.0	27.1	26.3	27.4	27.8	27.0	28.2	27.4	28.5	28.8
4H 2H	24.0	25.4	24.3	25.6	25.9	24.6	26.0	24.9	26.2	26.5
3H	25.7	26.9	26.0	27.2	27.5	26.5	27.6	26.8	27.9	28.3
4H	26.4	27.5	26.8	27.8	28.1	27.2	28.3	27.6	28.7	29.0
6H	26.9	27.9	27.3	28.2	28.6	27.8	28.8	28.2	29.1	29.5
8H	27.1	28.0	27.5	28.3	28.7	28.0	28.9	28.4	29.3	29.6
12H	27.2	28.0	27.6	28.4	28.8	28.1	28.9	28.5	29.3	29.7
8H 4H	26.7	27.6	27.1	28.0	28.3	27.5	28.4	27.9	28.7	29.1
6H	27.4	28.1	27.8	28.5	28.9	28.2	28.9	28.6	29.3	29.8
8H	27.6	28.3	28.1	28.7	29.1	28.4	29.1	28.9	29.5	30.0
12H	27.8	28.3	28.2	28.8	29.3	28.6	29.1	29.1	29.6	30.1
12H 4H	26.7	27.5	27.1	27.9	28.3	27.5	28.3	27.9	28.7	29.1
6H	27.4	28.1	27.9	28.5	29.0	28.2	28.9	28.7	29.3	29.8
8H	27.7	28.3	28.2	28.7	29.2	28.5	29.1	29.0	29.5	30.0
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, 4117 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.9)
Area: 0.05905 m2

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_80%_4000K

UTILIZATION FACTORS TABLE

Test:U:120.12V I:0.2590A P:30.896W PF:0.9932 Freq:60.01Hz Lamp Flux:4117x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

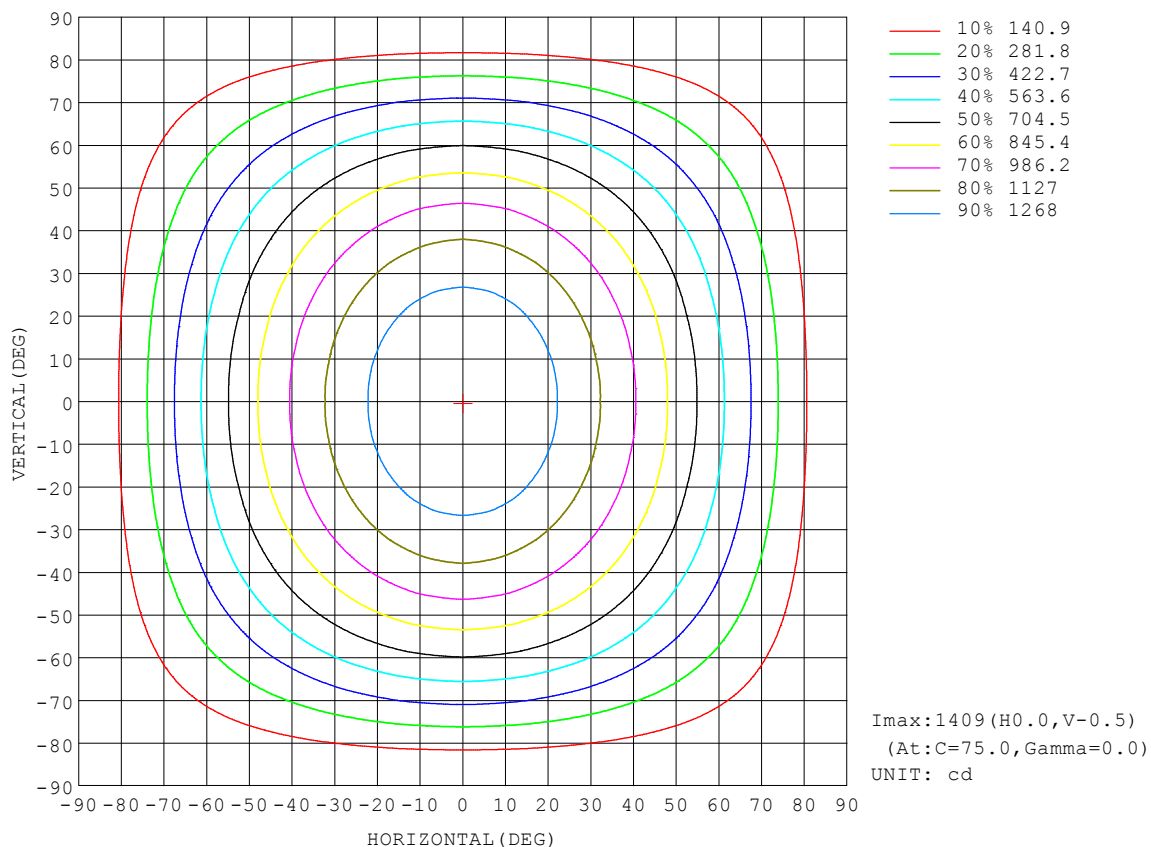
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	31
0.80	67	55	48	66	55	48	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	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: 27.2°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_80%_4000K

ISOCANDELA DIAGRAM

Test:U:120.12V I:0.2590A P:30.896W PF:0.9932 Freq:60.01Hz Lamp Flux:4117x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

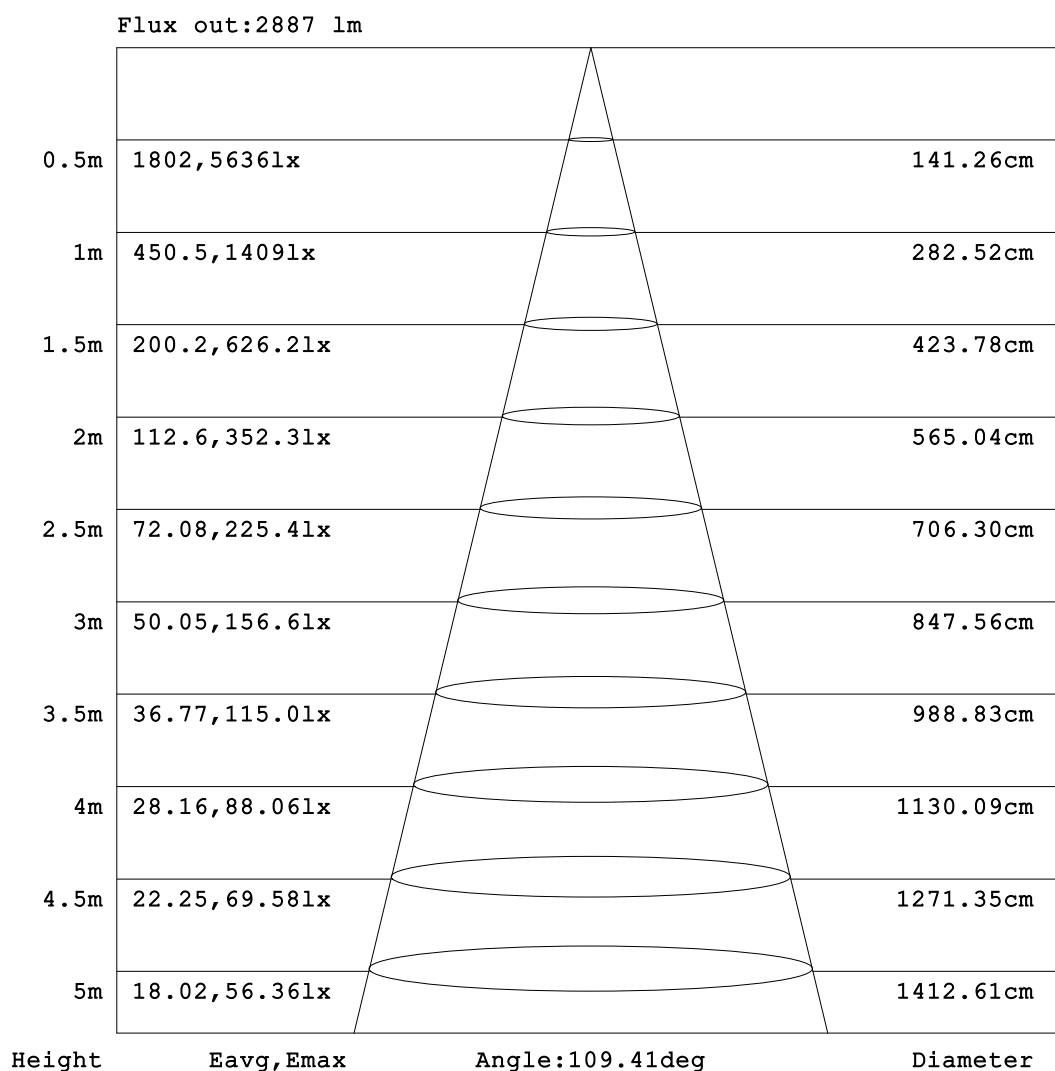


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2°C
Operators:Alan Wang
Test Date:2026-04-27

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_80%_4000K

AAI Figure

Test:U:120.12V I:0.2590A P:30.896W PF:0.9932 Freq:60.01Hz Lamp Flux:4117x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



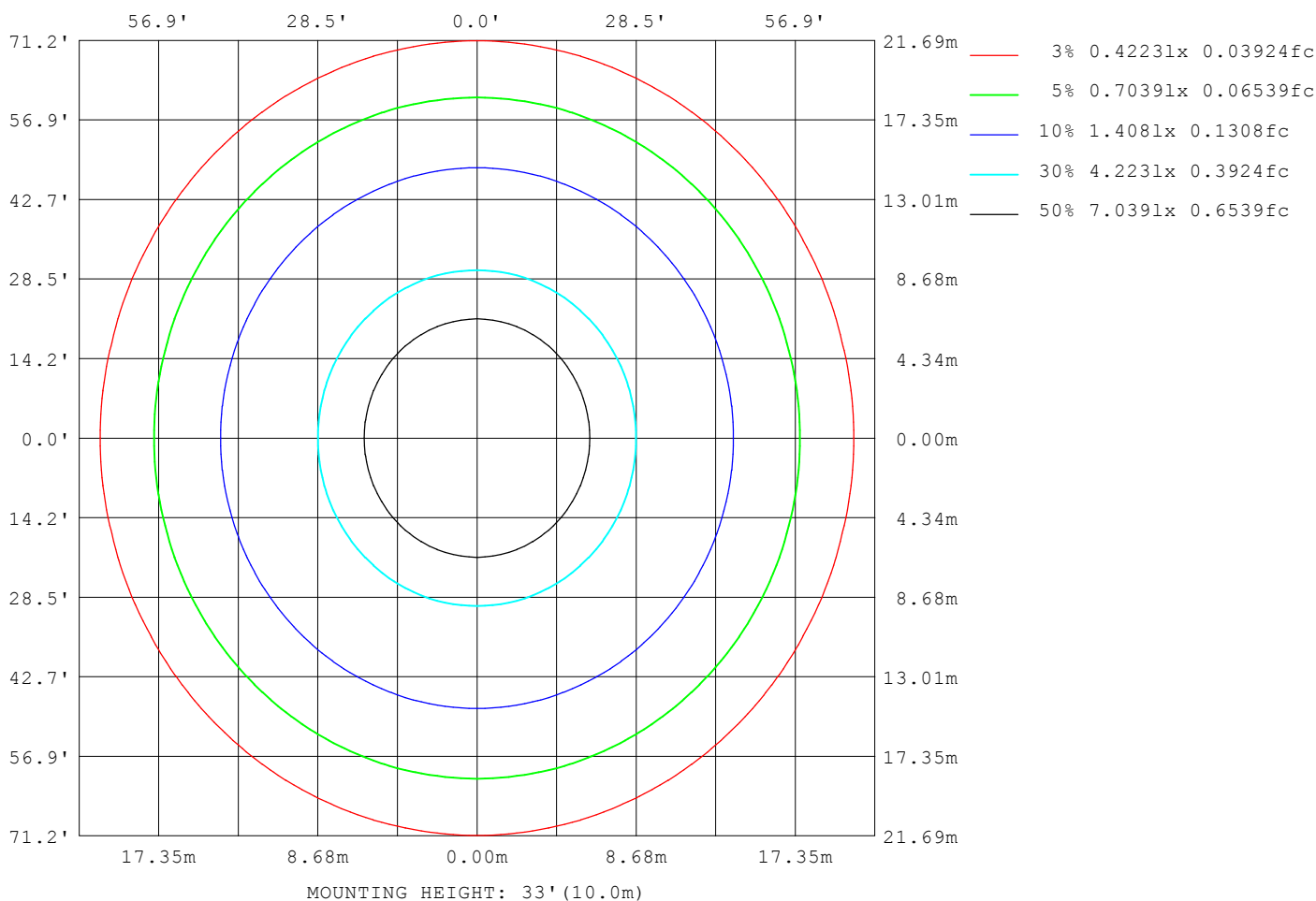
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.2°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_80%_4000K

ISOLUX DIAGRAM

Test:U:120.12V I:0.2590A P:30.896W PF:0.9932 Freq:60.01Hz Lamp Flux:4117x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_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_80%_4000K

LED Avg.L Report

Test:U:120.12V I:0.2590A P:30.896W PF:0.9932 Freq:60.01Hz Lamp Flux:4117x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

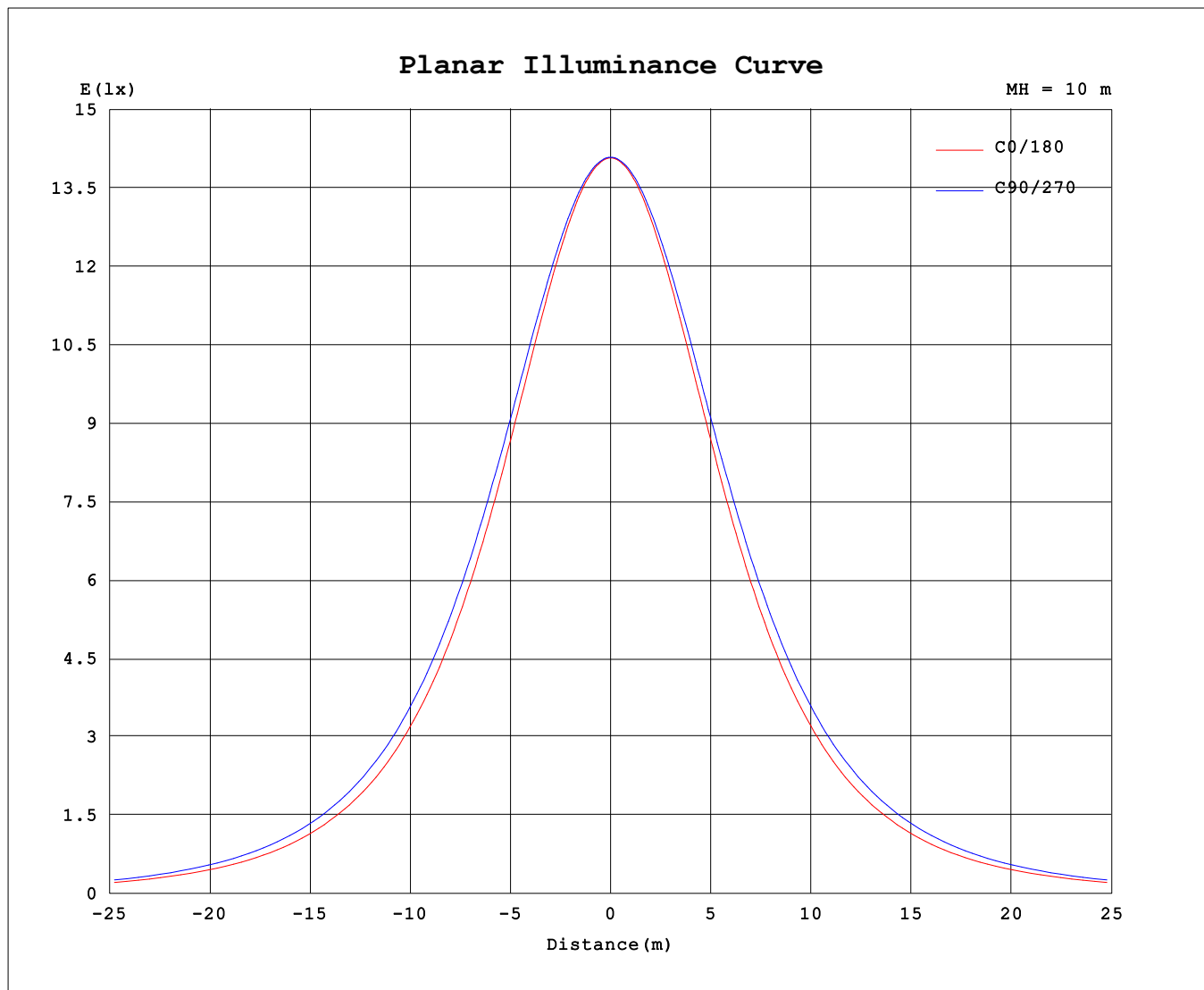
AvgL	cd/m2
L_0~180 (65) av	19262
L_0~180 (75) av	16868
L_0~180 (85) av	12118
L_90~270 (65) av	23267
L_90~270 (75) av	20614
L_90~270 (85) av	12695
L_45 (65) av	21050
L_45 (75) av	18459
L_45 (85) av	12504

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_80%_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_80%_4000:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.12V I:0.2590A P:30.896W PF:0.9932 Freq:60.01Hz Lamp Flux:4117x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%-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	1408	1409	1409	1409	1409	1409	1409	1409	1409	1409	1409	1409	1408	1409	1409	1409	1409	1409	1409
5	1400	1402	1402	1403	1403	1404	1404	1404	1403	1403	1402	1402	1400	1402	1402	1403	1403	1404	1404
10	1378	1380	1382	1384	1387	1389	1389	1389	1387	1384	1382	1380	1378	1380	1382	1384	1387	1389	1389
15	1342	1345	1348	1354	1359	1363	1365	1363	1359	1354	1348	1345	1342	1345	1348	1354	1359	1363	1365
20	1293	1296	1303	1312	1321	1328	1330	1328	1321	1312	1303	1296	1293	1296	1303	1312	1321	1328	1330
25	1233	1236	1246	1259	1274	1283	1286	1283	1274	1259	1246	1236	1233	1236	1246	1259	1274	1283	1286
30	1161	1167	1178	1196	1213	1227	1233	1227	1213	1196	1178	1167	1161	1167	1178	1196	1213	1227	1233
35	1083	1087	1102	1123	1146	1162	1168	1162	1146	1123	1102	1087	1083	1087	1102	1123	1146	1162	1168
40	995	1002	1018	1042	1067	1088	1095	1088	1067	1042	1018	1002	995	1002	1018	1042	1067	1088	1095
45	904	909	927	952	981	1003	1011	1003	981	952	927	909	904	909	927	952	981	1003	1011
50	805	811	829	856	886	909	919	909	886	856	829	811	805	811	829	856	886	909	919
55	702	707	726	752	781	805	814	805	781	752	726	707	702	707	726	752	781	805	814
60	591	598	616	642	671	693	702	693	671	642	616	598	591	598	616	642	671	693	702
65	481	485	501	525	552	572	581	572	552	525	501	485	481	485	501	525	552	572	581
70	368	372	384	404	427	443	450	443	427	404	384	372	368	372	384	404	427	443	450
75	258	260	269	282	298	311	315	311	298	282	269	260	258	260	269	282	298	311	315
80	153	154	159	166	174	181	182	181	174	166	159	154	153	154	159	166	174	181	182
85	62.4	61.8	62.7	64.4	65.4	65.7	65.3	65.7	65.4	64.4	62.7	61.8	62.4	61.8	62.7	64.4	65.4	65.7	65.3
90	10.3	8.99	8.18	6.41	4.66	3.20	2.91	3.20	4.66	6.41	8.18	8.99	10.3	8.99	8.18	6.41	4.66	3.20	2.91
95	0.24	0.24	0.23	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.24	0.24	0.24	0.23	0.22	0.22	0.22	0.22
100	0.35	0.36	0.34	0.34	0.33	0.32	0.31	0.32	0.33	0.34	0.34	0.36	0.35	0.36	0.34	0.34	0.33	0.32	0.31
105	0.43	0.45	0.43	0.43	0.42	0.40	0.39	0.40	0.42	0.43	0.43	0.45	0.43	0.45	0.43	0.43	0.42	0.40	0.39
110	0.52	0.54	0.52	0.51	0.50	0.48	0.47	0.48	0.50	0.51	0.52	0.54	0.52	0.54	0.52	0.51	0.50	0.48	0.47
115	0.62	0.64	0.61	0.61	0.59	0.58	0.56	0.58	0.59	0.61	0.61	0.64	0.62	0.64	0.61	0.61	0.59	0.58	0.56
120	0.72	0.74	0.72	0.70	0.68	0.65	0.65	0.65	0.68	0.70	0.72	0.74	0.72	0.74	0.72	0.70	0.68	0.65	0.65
125	0.85	0.87	0.83	0.81	0.79	0.79	0.78	0.79	0.79	0.81	0.83	0.87	0.85	0.87	0.83	0.81	0.79	0.79	0.78
130	1.08	1.10	1.05	1.02	1.00	1.01	0.99	1.01	1.00	1.02	1.05	1.10	1.08	1.10	1.05	1.02	1.00	1.01	0.99
135	1.34	1.36	1.30	1.26	1.25	1.26	1.24	1.26	1.25	1.26	1.30	1.36	1.34	1.36	1.30	1.26	1.25	1.26	1.24
140	1.69	1.70	1.64	1.61	1.60	1.59	1.57	1.59	1.60	1.61	1.64	1.70	1.69	1.70	1.64	1.61	1.60	1.59	1.57
145	2.06	2.07	2.02	1.97	1.96	1.95	1.91	1.95	1.96	1.97	2.02	2.07	2.06	2.07	2.02	1.97	1.96	1.95	1.91
150	2.42	2.41	2.36	2.28	2.23	2.23	2.23	2.23	2.23	2.28	2.36	2.41	2.42	2.41	2.36	2.28	2.23	2.23	2.23
155	2.65	2.62	2.55	2.49	2.41	2.41	2.43	2.41	2.41	2.49	2.55	2.62	2.65	2.62	2.55	2.49	2.41	2.41	2.43
160	2.72	2.71	2.62	2.56	2.49	2.50	2.50	2.50	2.49	2.56	2.62	2.71	2.72	2.71	2.62	2.56	2.49	2.50	2.50
165	2.71	2.69	2.61	2.53	2.49	2.52	2.49	2.52	2.49	2.53	2.61	2.69	2.71	2.69	2.61	2.53	2.49	2.52	2.49
170	2.69	2.69	2.62	2.55	2.52	2.50	2.50	2.50	2.52	2.55	2.62	2.69	2.69	2.69	2.62	2.55	2.52	2.50	2.50
175	2.70	2.71	2.64	2.59	2.55	2.53	2.51	2.53	2.55	2.59	2.64	2.71	2.70	2.71	2.64	2.59	2.55	2.53	2.51
180	2.82	2.76	2.68	2.63	2.59	2.56	2.55	2.56	2.59	2.63	2.68	2.76	2.82	2.76	2.68	2.63	2.59	2.56	2.55

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_80%-4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.12V I:0.2590A P:30.896W PF:0.9932 Freq:60.01Hz Lamp Flux:4117x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_80%_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	1409	1409	1409	1409	1409													
5	1404	1403	1403	1402	1402													
10	1389	1387	1384	1382	1380													
15	1363	1359	1354	1348	1345													
20	1328	1321	1312	1303	1296													
25	1283	1274	1259	1246	1236													
30	1227	1213	1196	1178	1167													
35	1162	1146	1123	1102	1087													
40	1088	1067	1042	1018	1002													
45	1003	981	952	927	909													
50	909	886	856	829	811													
55	805	781	752	726	707													
60	693	671	642	616	598													
65	572	552	525	501	485													
70	443	427	404	384	372													
75	311	298	282	269	260													
80	181	174	166	159	154													
85	65.7	65.4	64.4	62.7	61.8													
90	3.20	4.66	6.41	8.18	8.99													
95	0.22	0.22	0.22	0.23	0.24													
100	0.32	0.33	0.34	0.34	0.36													
105	0.40	0.42	0.43	0.43	0.45													
110	0.48	0.50	0.51	0.52	0.54													
115	0.58	0.59	0.61	0.61	0.64													
120	0.65	0.68	0.70	0.72	0.74													
125	0.79	0.79	0.81	0.83	0.87													
130	1.01	1.00	1.02	1.05	1.10													
135	1.26	1.25	1.26	1.30	1.36													
140	1.59	1.60	1.61	1.64	1.70													
145	1.95	1.96	1.97	2.02	2.07													
150	2.23	2.23	2.28	2.36	2.41													
155	2.41	2.41	2.49	2.55	2.62													
160	2.50	2.49	2.56	2.62	2.71													
165	2.52	2.49	2.53	2.61	2.69													
170	2.50	2.52	2.55	2.62	2.69													
175	2.53	2.55	2.59	2.64	2.71													
180	2.56	2.59	2.63	2.68	2.76													

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_80%_4000: