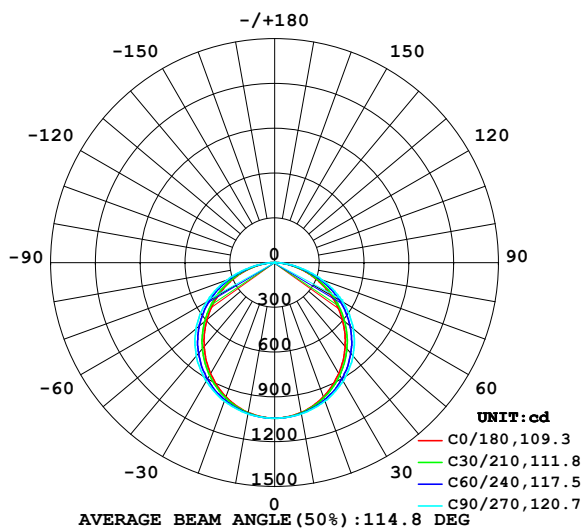


LUMINAIRE PHOTOMETRIC TEST REPORT

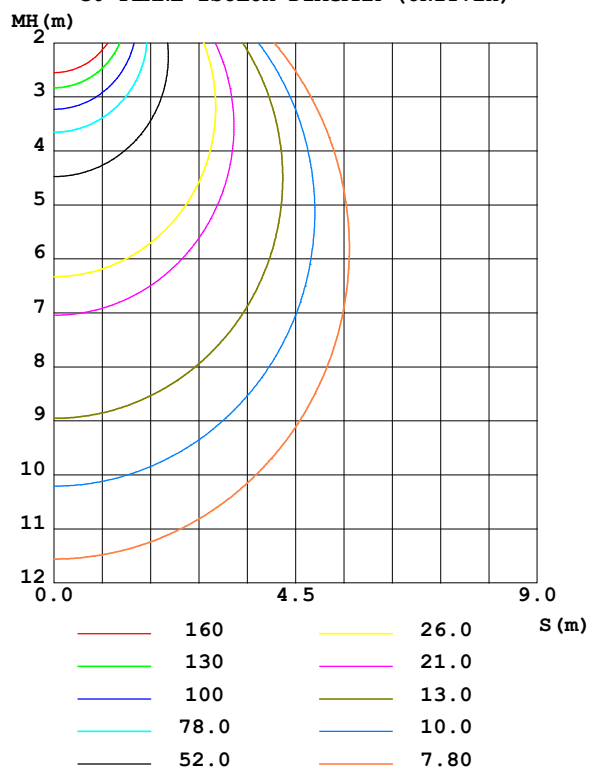
Test:U:119.95V I:0.1947A P:23.078W PF:0.9882 Freq:60.01Hz Lamp Flux:3059.35x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 132.56 lm/W
MODEL		I _{max} (cd)	1043	S/MH(C0/180)	1.23	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.31	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3059.4	η UP,DN(C0-180)	0.1,49.9	
NOMINAL FLUX(lm)	3059.35	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)	119.885	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:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

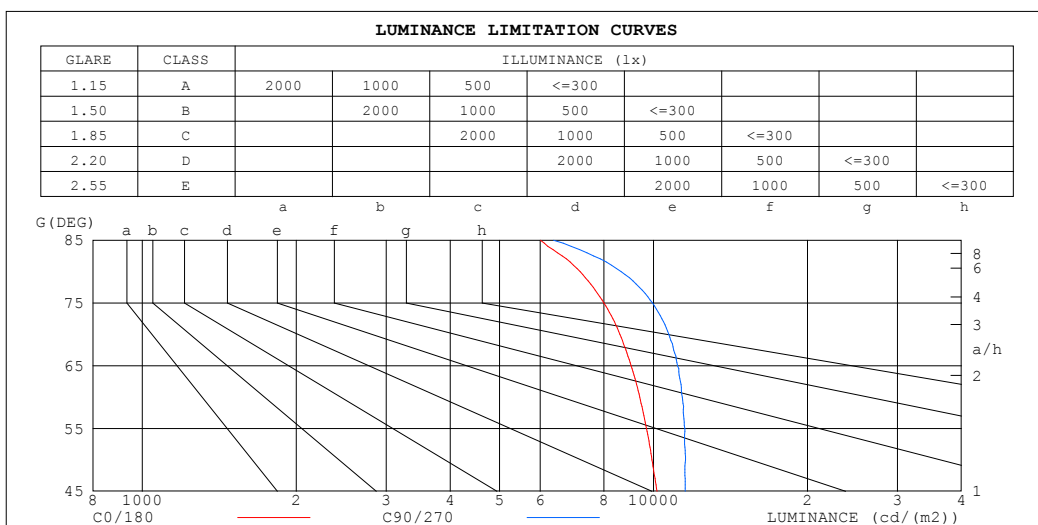
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1020	1024	1028	1024	1020	1024	1028	1024	0- 10	98.65	98.65	3.22,3.22
20	956.5	971.5	987.3	971.5	956.5	971.5	987.3	971.5	10- 20	282.9	381.5	12.5,12.5
30	858.9	887.7	917.9	887.7	858.9	887.7	917.9	887.7	20- 30	430.1	811.7	26.5,26.5
40	735.0	773.0	816.9	773.0	735.0	773.0	816.9	773.0	30- 40	521.8	1334	43.6,43.6
50	592.0	635.2	688.7	635.2	592.0	635.2	688.7	635.2	40- 50	546.6	1880	61.5,61.5
60	435.6	475.7	527.6	475.7	435.6	475.7	527.6	475.7	50- 60	500.6	2381	77.8,77.8
70	272.7	300.8	339.8	300.8	272.7	300.8	339.8	300.8	60- 70	387.9	2769	90.5,90.5
80	115.7	125.8	139.2	125.8	115.7	125.8	139.2	125.8	70- 80	225.5	2994	97.9,97.9
90	8.517	4.805	2.184	4.805	8.517	4.805	2.184	4.805	80- 90	59.73	3054	99.8,99.8
100	0.2630	0.2596	0.2434	0.2596	0.2630	0.2596	0.2434	0.2596	90-100	0.8782	3055	99.9,99.9
110	0.3883	0.3792	0.3577	0.3792	0.3883	0.3792	0.3577	0.3792	100-110	0.3382	3055	99.9,99.9
120	0.5428	0.5129	0.4822	0.5129	0.5428	0.5129	0.4822	0.5129	110-120	0.4419	3056	99.9,99.9
130	0.8178	0.7482	0.7283	0.7482	0.8178	0.7482	0.7283	0.7482	120-130	0.5531	3056	99.9,99.9
140	1.276	1.191	1.141	1.191	1.276	1.191	1.141	1.191	130-140	0.7430	3057	99.9,99.9
150	1.832	1.680	1.606	1.680	1.832	1.680	1.606	1.680	140-150	0.9077	3058	99.9,99.9
160	2.052	1.866	1.802	1.866	2.052	1.866	1.802	1.866	150-160	0.8445	3059	100,100
170	2.027	1.882	1.823	1.882	2.027	1.882	1.823	1.882	160-170	0.5376	3059	100,100
180	2.104	1.926	1.861	1.926	2.104	1.926	1.861	1.926	170-180	0.1827	3059	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500:

LUMINANCE LIMITATION CURVES

Test:U:119.95V I:0.1947A P:23.078W PF:0.9882 Freq:60.01Hz Lamp Flux:3059.35x1 lm		
NAME: VLTG-3S-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	6013	6374
80	7187	8643
75	7996	9952
70	8598	10714
65	9043	11145
60	9395	11380
55	9689	11513
50	9933	11555
45	10155	11541

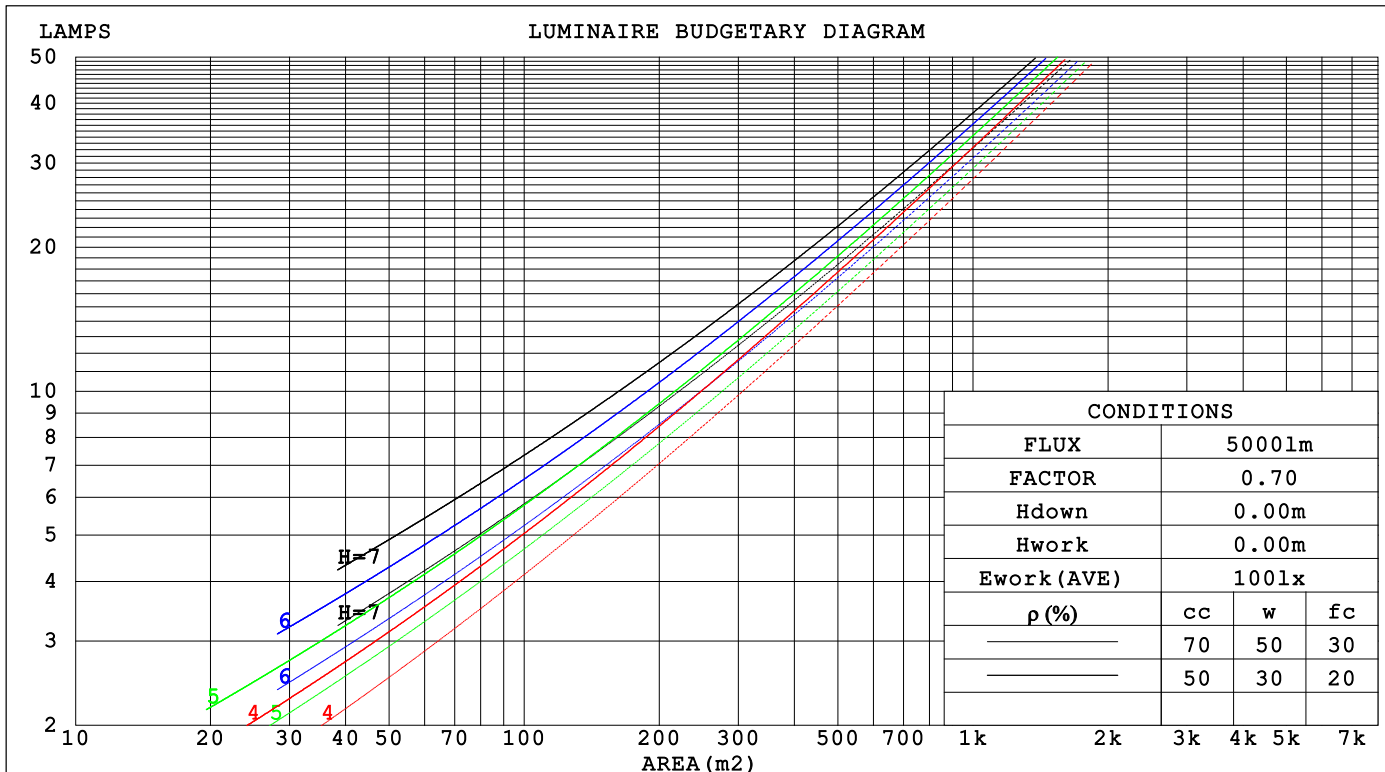
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1°C
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.95V I:0.1947A P:23.078W PF:0.9882 Freq:60.01Hz Lamp Flux:3059.35x1 lm		
NAME: VLTG-3S-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	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.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	.46	.40	.53	.45	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.30	.26	.37	.30	.25	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1°C
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500:

WEC AND CCEC

Test:U:119.95V I:0.1947A P:23.078W PF:0.9882 Freq:60.01Hz Lamp Flux:3059.35x1 lm		
NAME: VLTG-3S-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	.314	.178	.057	.307	.175	.056	.293	.168	.054	.281	.162	.052	.270	.156	.050		
2.0	.295	.162	.050	.289	.159	.049	.277	.154	.048	.266	.149	.047	.256	.145	.046		
3.0	.273	.145	.043	.267	.143	.043	.257	.139	.042	.247	.135	.042	.238	.132	.041		
4.0	.251	.131	.038	.247	.129	.038	.237	.126	.038	.229	.123	.037	.221	.120	.037		
5.0	.232	.118	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.205	.109	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.105	.030	.197	.102	.030	.191	.100	.030		
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.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	.083	.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	.021	.017	.012	.007		
5.0	.151	.092	.048	.130	.080	.042	.090	.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	.028	.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	.026	.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:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500:

UGR(Unified Glare Rating) Table

Test:U:119.95V I:0.1947A P:23.078W PF:0.9882 Freq:60.01Hz Lamp Flux:3059.35x1 lm										
NAME: VLTG-3S-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	20.7	22.2	20.9	22.4	22.6	21.5	23.1	21.8	23.3	23.5
3H	22.1	23.6	22.4	23.8	24.0	23.2	24.6	23.5	24.9	25.1
4H	22.7	24.1	23.1	24.3	24.6	23.9	25.2	24.2	25.5	25.7
6H	23.2	24.4	23.5	24.7	25.0	24.3	25.6	24.7	25.9	26.1
8H	23.3	24.5	23.6	24.8	25.1	24.4	25.7	24.8	26.0	26.3
12H	23.4	24.5	23.7	24.8	25.2	24.5	25.7	24.9	26.0	26.3
4H 2H	21.4	22.7	21.7	23.0	23.3	22.0	23.4	22.4	23.7	23.9
3H	23.0	24.2	23.4	24.5	24.8	23.9	25.1	24.3	25.4	25.7
4H	23.8	24.8	24.1	25.2	25.5	24.7	25.8	25.1	26.1	26.5
6H	24.3	25.3	24.7	25.6	26.0	25.3	26.3	25.7	26.6	27.0
8H	24.5	25.4	24.9	25.7	26.1	25.5	26.4	25.9	26.7	27.1
12H	24.6	25.4	25.0	25.8	26.2	25.6	26.4	26.0	26.8	27.2
8H 4H	24.1	25.0	24.5	25.3	25.7	24.9	25.8	25.3	26.2	26.6
6H	24.8	25.5	25.2	25.9	26.4	25.7	26.4	26.1	26.8	27.2
8H	25.0	25.7	25.5	26.1	26.6	25.9	26.6	26.4	27.0	27.5
12H	25.2	25.8	25.7	26.2	26.7	26.1	26.7	26.6	27.1	27.6
12H 4H	24.1	24.9	24.5	25.3	25.7	24.9	25.8	25.4	26.1	26.6
6H	24.8	25.5	25.3	25.9	26.4	25.7	26.4	26.2	26.8	27.2
8H	25.1	25.7	25.6	26.2	26.6	26.0	26.6	26.5	27.0	27.5
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, 3059 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.9)
Area: 0.09272 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

UTILIZATION FACTORS TABLE

Test:U:119.95V I:0.1947A P:23.078W PF:0.9882 Freq:60.01Hz Lamp Flux:3059.35x1 lm		
NAME: VLTG-3S-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:

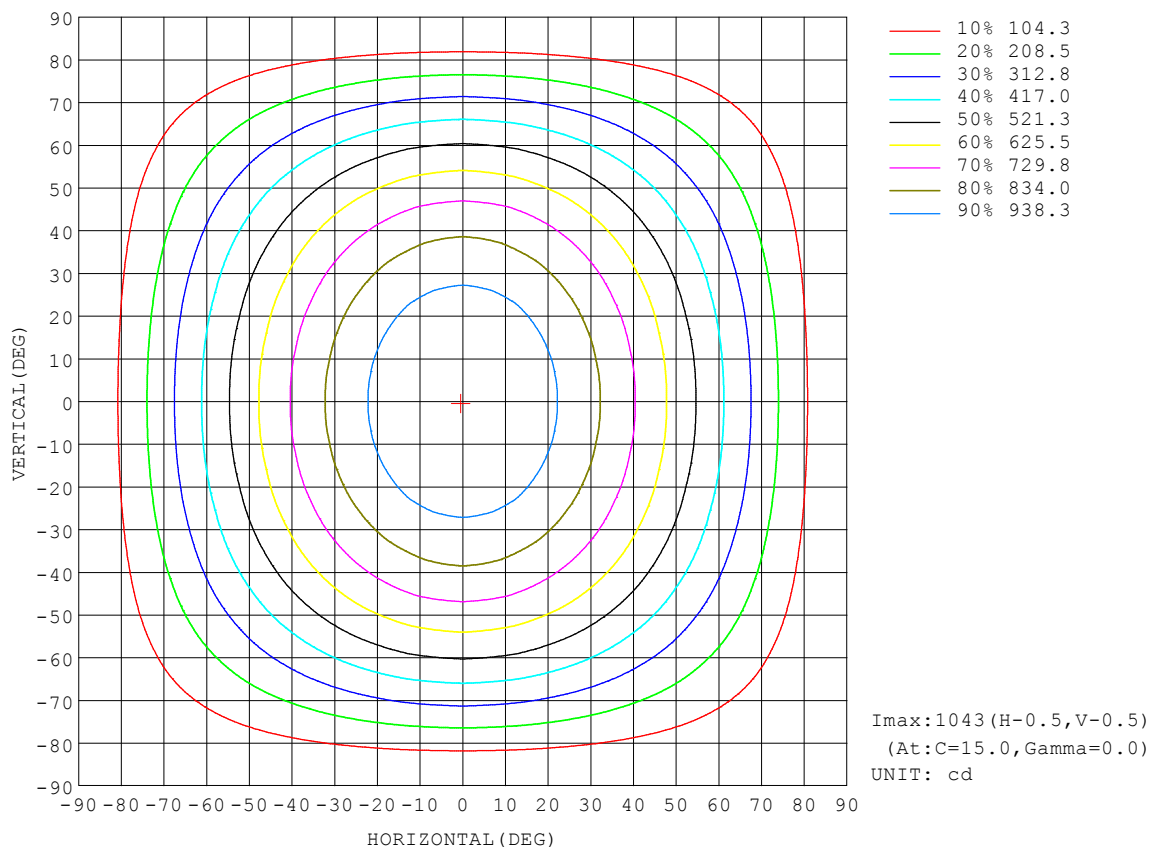
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	56	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	78	70	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	98	91	84	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	104	99	106	102	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: 26.1°C
Operators: Alan Wang
Test Date: 2026-04-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 49.3%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

ISOCANDELA DIAGRAM

Test:U:119.95V I:0.1947A P:23.078W PF:0.9882 Freq:60.01Hz Lamp Flux:3059.35x1 lm		
NAME: VLTG-3S-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:

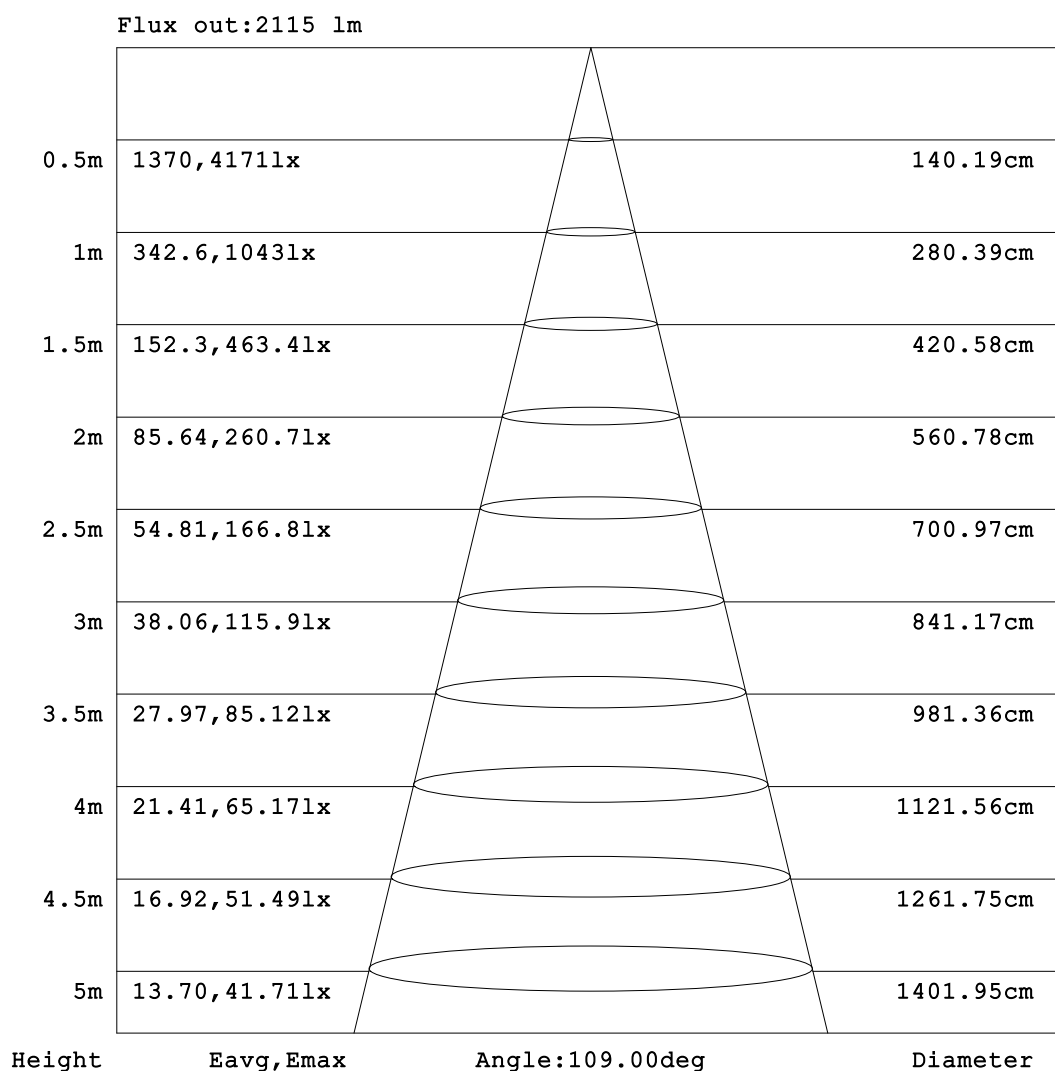


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1°C
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

AAI Figure

Test:U:119.95V I:0.1947A P:23.078W PF:0.9882 Freq:60.01Hz Lamp Flux:3059.35x1 lm		
NAME: VLTG-3S-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:



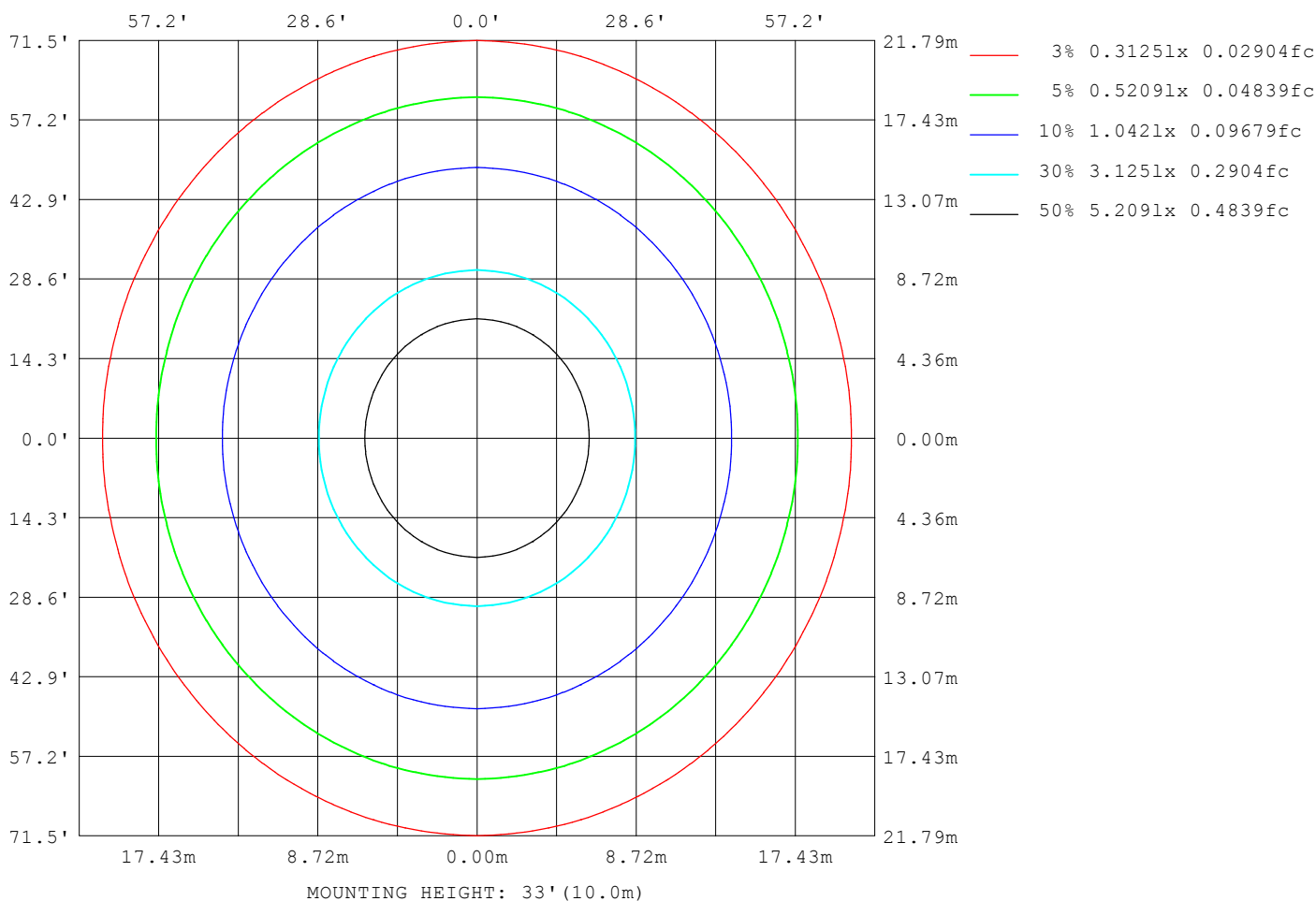
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1°C
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

ISOLUX DIAGRAM

Test:U:119.95V I:0.1947A P:23.078W PF:0.9882 Freq:60.01Hz Lamp Flux:3059.35x1 lm		
NAME: VLTG-3S-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:26.1°C
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

LED Avg.L Report

Test:U:119.95V I:0.1947A P:23.078W PF:0.9882 Freq:60.01Hz Lamp Flux:3059.35x1 lm		
NAME: VLTG-3S-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:

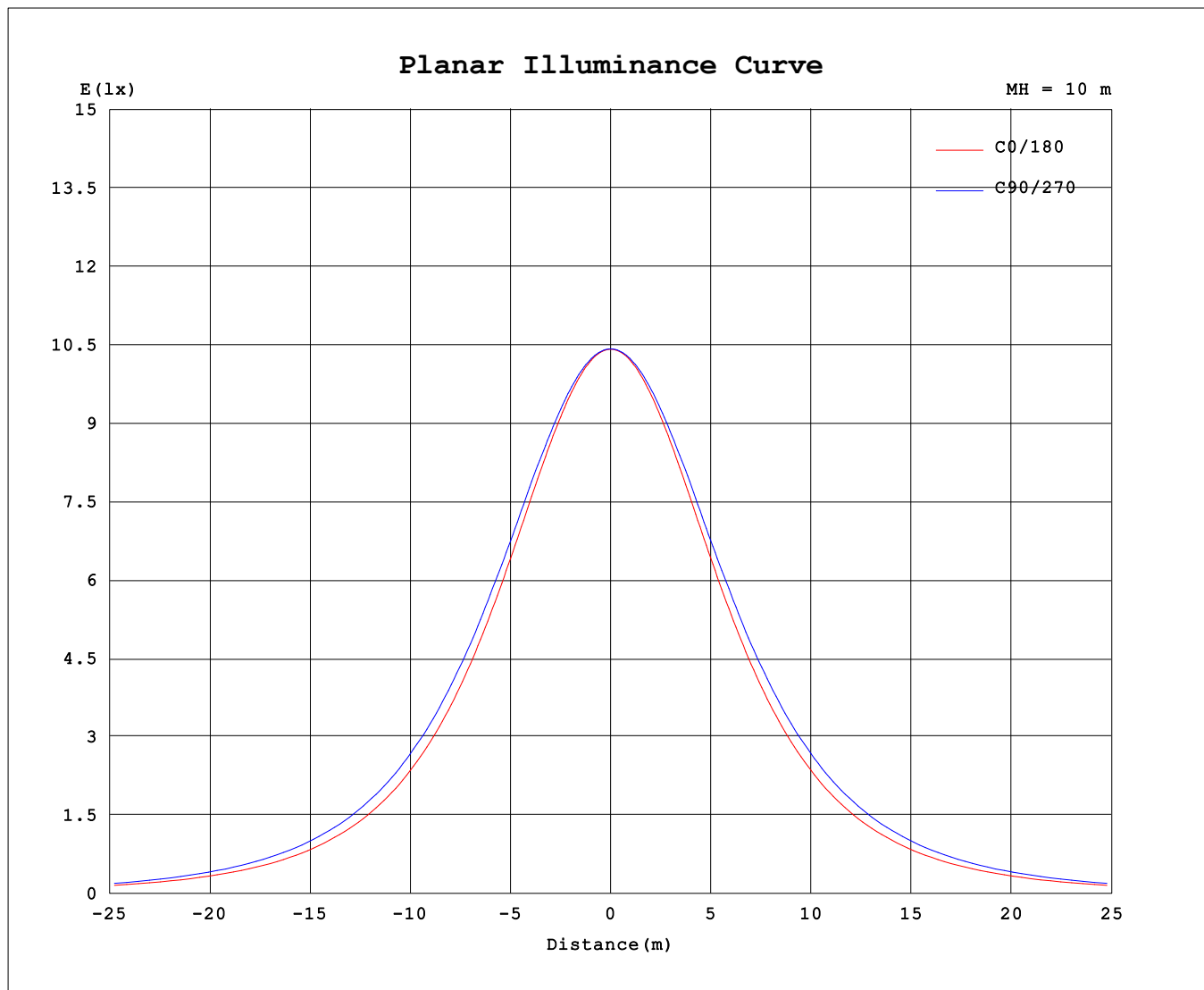
AvgL	cd/m2
L_0~180 (65) av	9043
L_0~180 (75) av	7996
L_0~180 (85) av	6013
L_90~270 (65) av	11145
L_90~270 (75) av	9952
L_90~270 (85) av	6374
L_45 (65) av	9942
L_45 (75) av	8821
L_45 (85) av	6192

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 26.1°C
Operators: Alan Wang
Test Date: 2026-04-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 49.3%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.95V I:0.1947A P:23.078W PF:0.9882 Freq:60.01Hz Lamp Flux:3059.35x1 lm		
NAME: VLTG-3S-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	1042	1043	1043	1043	1043	1042	1042	1042	1043	1043	1043	1043	1042	1043	1043	1043	1043	1042	1042
5	1036	1037	1038	1038	1039	1039	1039	1039	1039	1038	1038	1037	1036	1037	1038	1038	1039	1039	1039
10	1020	1021	1023	1024	1027	1028	1028	1028	1027	1024	1023	1021	1020	1021	1023	1024	1027	1028	1028
15	993	995	998	1002	1007	1010	1011	1010	1007	1002	998	995	993	995	998	1002	1007	1010	1011
20	956	959	964	971	979	985	987	985	979	971	964	959	956	959	964	971	979	985	987
25	912	915	922	932	945	952	955	952	945	932	922	915	912	915	922	932	945	952	955
30	859	863	873	888	900	912	918	912	900	888	873	863	859	863	873	888	900	912	918
35	800	804	816	833	852	864	869	864	852	833	816	804	800	804	816	833	852	864	869
40	735	740	753	773	793	811	817	811	793	773	753	740	735	740	753	773	793	811	817
45	666	671	686	707	730	749	757	749	730	707	686	671	666	671	686	707	730	749	757
50	592	597	613	635	661	679	689	679	661	635	613	597	592	597	613	635	661	679	689
55	515	520	535	558	583	603	612	603	583	558	535	520	515	520	535	558	583	603	612
60	436	440	454	476	500	520	528	520	500	476	454	440	436	440	454	476	500	520	528
65	354	358	371	390	411	430	437	430	411	390	371	358	354	358	371	390	411	430	437
70	273	275	285	301	319	334	340	334	319	301	285	275	273	275	285	301	319	334	340
75	192	194	201	212	224	235	239	235	224	212	201	194	192	194	201	212	224	235	239
80	116	116	120	126	132	137	139	137	132	126	120	116	116	116	120	126	132	137	139
85	48.6	47.8	48.8	50.0	51.0	51.7	51.5	51.7	51.0	50.0	48.8	47.8	48.6	47.8	48.8	50.0	51.0	51.7	51.5
90	8.52	7.24	6.46	4.80	3.15	2.44	2.18	2.44	3.15	4.80	6.46	7.24	8.52	7.24	6.46	4.80	3.15	2.44	2.18
95	0.23	0.20	0.17	0.17	0.17	0.16	0.16	0.16	0.17	0.17	0.17	0.20	0.23	0.20	0.17	0.17	0.17	0.16	0.16
100	0.26	0.28	0.26	0.26	0.26	0.25	0.24	0.25	0.26	0.26	0.26	0.28	0.26	0.28	0.26	0.26	0.26	0.25	0.24
105	0.32	0.34	0.32	0.32	0.31	0.31	0.30	0.31	0.31	0.32	0.32	0.34	0.32	0.34	0.32	0.32	0.31	0.31	0.30
110	0.39	0.40	0.38	0.38	0.37	0.36	0.36	0.36	0.37	0.38	0.38	0.40	0.39	0.40	0.38	0.38	0.37	0.36	0.36
115	0.47	0.47	0.45	0.45	0.44	0.43	0.41	0.43	0.44	0.45	0.45	0.47	0.47	0.47	0.45	0.45	0.44	0.43	0.41
120	0.54	0.55	0.53	0.51	0.50	0.48	0.48	0.48	0.50	0.51	0.53	0.55	0.54	0.55	0.53	0.51	0.50	0.48	0.48
125	0.64	0.64	0.61	0.60	0.59	0.59	0.57	0.59	0.59	0.60	0.61	0.64	0.64	0.64	0.61	0.60	0.59	0.59	0.57
130	0.82	0.82	0.77	0.75	0.74	0.75	0.73	0.75	0.74	0.75	0.77	0.82	0.82	0.82	0.77	0.75	0.74	0.75	0.73
135	1.02	1.01	0.96	0.93	0.92	0.92	0.90	0.92	0.92	0.93	0.96	1.01	1.02	1.01	0.96	0.93	0.92	0.92	0.90
140	1.28	1.27	1.22	1.19	1.17	1.16	1.14	1.16	1.17	1.19	1.22	1.27	1.28	1.27	1.22	1.19	1.17	1.16	1.14
145	1.56	1.54	1.50	1.45	1.42	1.40	1.38	1.40	1.42	1.45	1.50	1.54	1.56	1.54	1.50	1.45	1.42	1.40	1.38
150	1.83	1.80	1.74	1.68	1.64	1.62	1.61	1.62	1.64	1.68	1.74	1.80	1.83	1.80	1.74	1.68	1.64	1.62	1.61
155	2.00	1.95	1.89	1.83	1.76	1.76	1.75	1.76	1.76	1.83	1.89	1.95	2.00	1.95	1.89	1.83	1.76	1.76	1.75
160	2.05	2.01	1.94	1.87	1.83	1.81	1.80	1.81	1.83	1.87	1.94	2.01	2.05	2.01	1.94	1.87	1.83	1.81	1.80
165	2.04	2.00	1.93	1.86	1.83	1.81	1.81	1.81	1.83	1.86	1.93	2.00	2.04	2.00	1.93	1.86	1.83	1.81	1.81
170	2.03	2.00	1.94	1.88	1.85	1.83	1.82	1.83	1.85	1.88	1.94	2.00	2.03	2.00	1.94	1.88	1.85	1.83	1.82
175	2.02	2.01	1.95	1.90	1.87	1.85	1.84	1.85	1.87	1.90	1.95	2.01	2.02	2.01	1.95	1.90	1.87	1.85	1.84
180	2.10	2.04	1.97	1.93	1.90	1.87	1.86	1.87	1.90	1.93	1.97	2.04	2.10	2.04	1.97	1.93	1.90	1.87	1.86

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.95V I:0.1947A P:23.078W PF:0.9882 Freq:60.01Hz Lamp Flux:3059.35x1 lm		
NAME: VLTG-3S-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	1042	1043	1043	1043	1043													
5	1039	1039	1038	1038	1037													
10	1028	1027	1024	1023	1021													
15	1010	1007	1002	998	995													
20	985	979	971	964	959													
25	952	945	932	922	915													
30	912	900	888	873	863													
35	864	852	833	816	804													
40	811	793	773	753	740													
45	749	730	707	686	671													
50	679	661	635	613	597													
55	603	583	558	535	520													
60	520	500	476	454	440													
65	430	411	390	371	358													
70	334	319	301	285	275													
75	235	224	212	201	194													
80	137	132	126	120	116													
85	51.7	51.0	50.0	48.8	47.8													
90	2.44	3.15	4.80	6.46	7.24													
95	0.16	0.17	0.17	0.17	0.20													
100	0.25	0.26	0.26	0.26	0.28													
105	0.31	0.31	0.32	0.32	0.34													
110	0.36	0.37	0.38	0.38	0.40													
115	0.43	0.44	0.45	0.45	0.47													
120	0.48	0.50	0.51	0.53	0.55													
125	0.59	0.59	0.60	0.61	0.64													
130	0.75	0.74	0.75	0.77	0.82													
135	0.92	0.92	0.93	0.96	1.01													
140	1.16	1.17	1.19	1.22	1.27													
145	1.40	1.42	1.45	1.50	1.54													
150	1.62	1.64	1.68	1.74	1.80													
155	1.76	1.76	1.83	1.89	1.95													
160	1.81	1.83	1.87	1.94	2.01													
165	1.81	1.83	1.86	1.93	2.00													
170	1.83	1.85	1.88	1.94	2.00													
175	1.85	1.87	1.90	1.95	2.01													
180	1.87	1.90	1.93	1.97	2.04													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3500K