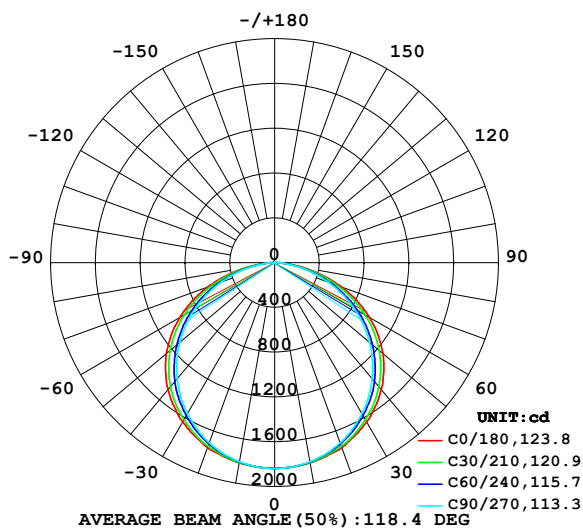


LUMINAIRE PHOTOMETRIC TEST REPORT

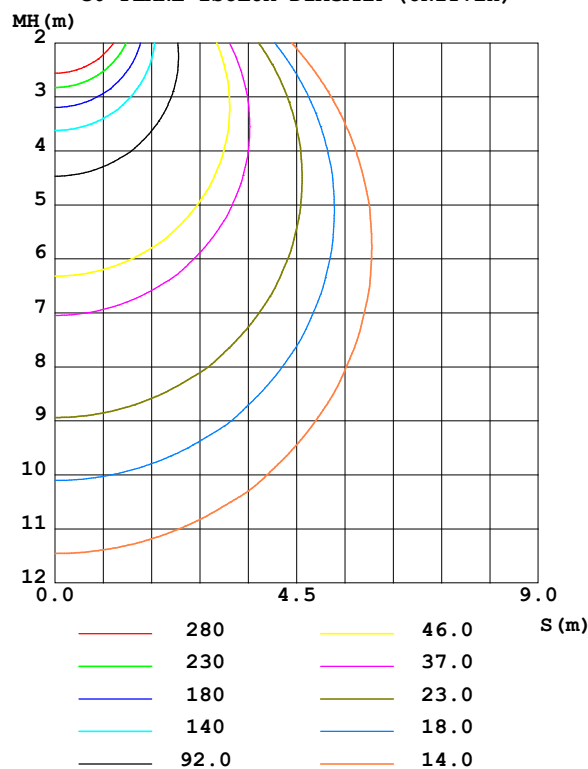
Test:U:120.03V I:0.4041A P:48.311W PF:0.9961 Freq:60.01Hz Lamp Flux:5592.52x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 115.76 lm/W
MODEL		I _{max} (cd)	1839	S/MH(C0/180)	1.33	
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.26	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	5592.5	η UP,DN(C0-180)	0.1,49.9	
NOMINAL FLUX(lm)	5592.52	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°C
Operators: Alan Wang
Test Date: 2026-02-11

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_100%_3000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

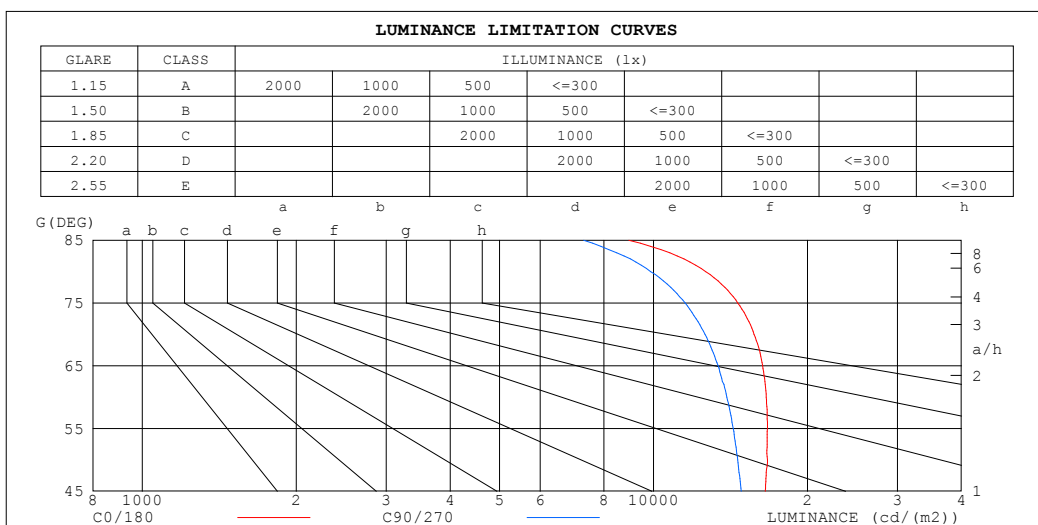
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1816	1811	1807	1811	1816	1811	1807	1811	0- 10	174.2	174.2	3.11,3.11
20	1759	1732	1712	1732	1759	1732	1712	1732	10- 20	502.4	676.5	12.1,12.1
30	1643	1602	1559	1602	1643	1602	1559	1602	20- 30	771.7	1448	25.9,25.9
40	1481	1415	1355	1415	1481	1415	1355	1415	30- 40	948.3	2397	42.9,42.9
50	1265	1179	1106	1179	1265	1179	1106	1179	40- 50	1007	3403	60.9,60.9
60	979.1	891.1	819.9	891.1	979.1	891.1	819.9	891.1	50- 60	932.4	4336	77.5,77.5
70	633.9	562.6	508.1	562.6	633.9	562.6	508.1	562.6	60- 70	726.5	5062	90.5,90.5
80	258.9	225.9	202.0	225.9	258.9	225.9	202.0	225.9	70- 80	417.5	5480	98,98
90	1.789	3.876	6.564	3.876	1.789	3.876	6.564	3.876	80- 90	102.0	5582	99.8,99.8
100	0.4856	0.8600	0.9606	0.8600	0.4856	0.8600	0.9606	0.8600	90-100	0.8281	5583	99.8,99.8
110	0.7130	1.179	1.219	1.179	0.7130	1.179	1.219	1.179	100-110	1.010	5584	99.8,99.8
120	0.9040	1.414	1.484	1.414	0.9040	1.414	1.484	1.414	110-120	1.205	5585	99.9,99.9
130	1.337	1.758	1.892	1.758	1.337	1.758	1.892	1.758	120-130	1.327	5586	99.9,99.9
140	2.084	2.536	2.747	2.536	2.084	2.536	2.747	2.536	130-140	1.596	5588	99.9,99.9
150	2.919	3.370	3.721	3.370	2.919	3.370	3.721	3.370	140-150	1.828	5589	99.9,99.9
160	3.287	3.592	4.085	3.592	3.287	3.592	4.085	3.592	150-160	1.637	5591	100,100
170	3.407	3.597	3.878	3.597	3.407	3.597	3.878	3.597	160-170	1.037	5592	100,100
180	3.453	3.628	3.884	3.628	3.453	3.628	3.884	3.628	170-180	0.3461	5593	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:2026-02-11

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_100%_300

LUMINANCE LIMITATION CURVES

Test:U:120.03V I:0.4041A P:48.311W PF:0.9961 Freq:60.01Hz Lamp Flux:5592.52x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_3000K	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	8943	7300
80	12653	9876
75	14620	11540
70	15732	12610
65	16348	13372
60	16621	13918
55	16706	14319
50	16700	14601
45	16544	14835

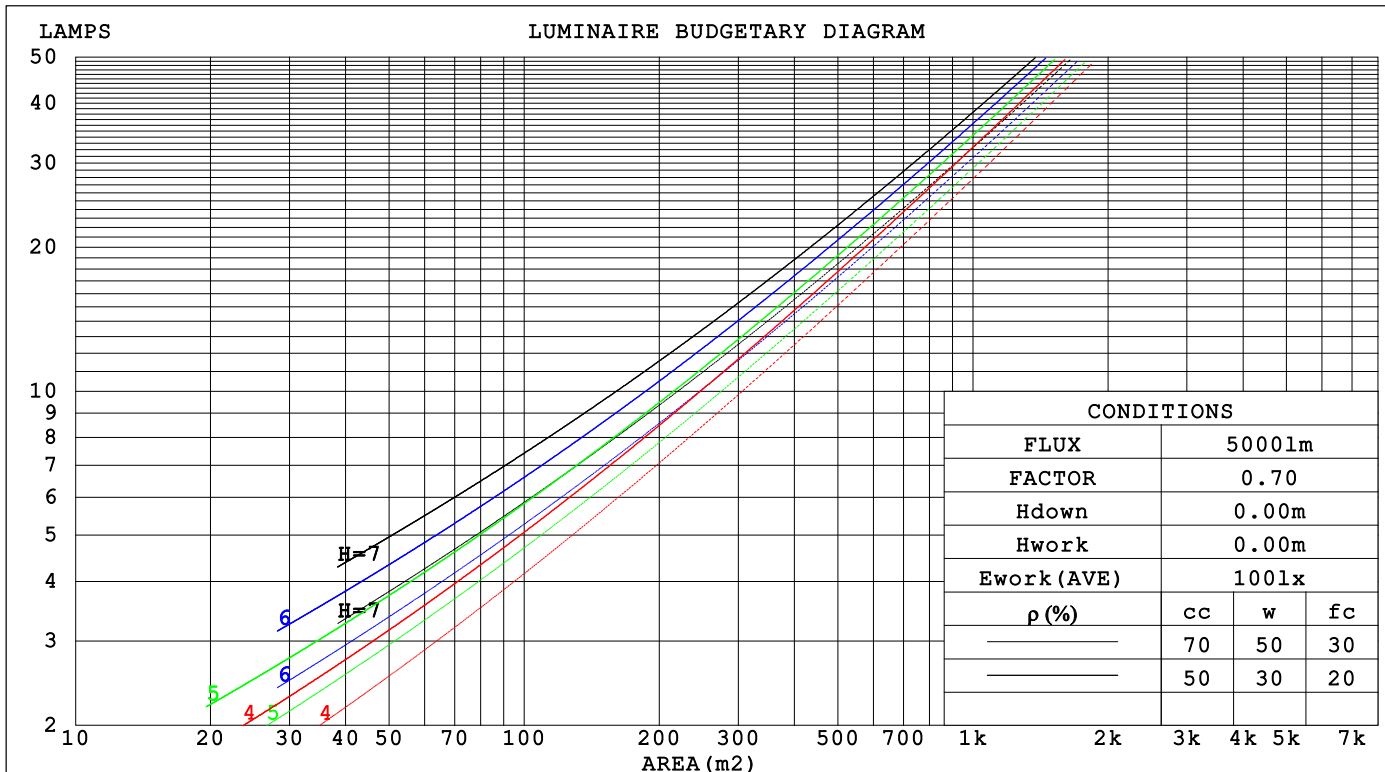
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.2°C
Operators: Alan Wang
Test Date: 2026-02-11

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_100%_3000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.03V I:0.4041A P:48.311W PF:0.9961 Freq:60.01Hz Lamp Flux:5592.52x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_3000K	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	.77	.73	.78	.74	.71	.69
3.0	.79	.70	.64	.77	.69	.63	.74	.67	.62	.71	.66	.61	.69	.64	.60	.57
4.0	.69	.61	.54	.68	.60	.53	.66	.58	.52	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.39	.51	.44	.39	.49	.43	.39	.37
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	.43	.36	.31	.41	.35	.31	.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	.31	.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:2026-02-11

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_100%_3000K

WEC AND CCEC

Test:U:120.03V I:0.4041A P:48.311W PF:0.9961 Freq:60.01Hz Lamp Flux:5592.52x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_3000K	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	.307	.175	.056	.294	.169	.054	.282	.162	.052	.270	.157	.051		
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.257	.145	.046		
3.0	.274	.146	.044	.269	.144	.043	.258	.140	.043	.248	.136	.042	.239	.133	.041		
4.0	.253	.131	.039	.248	.130	.038	.238	.126	.038	.230	.123	.037	.222	.121	.037		
5.0	.233	.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	.017	.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	.045	.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:2026-02-11

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_100%_3000K

UGR(Unified Glare Rating) Table

Test:U:120.03V I:0.4041A P:48.311W PF:0.9961 Freq:60.01Hz Lamp Flux:5592.52x1 lm										
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_3000K					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	22.9	24.4	23.1	24.6	24.8	22.1	23.6	22.4	23.8	24.0
3H	24.6	26.0	24.9	26.2	26.5	23.6	25.0	23.9	25.2	25.5
4H	25.2	26.6	25.6	26.9	27.1	24.1	25.5	24.5	25.8	26.0
6H	25.7	27.0	26.0	27.3	27.5	24.5	25.8	24.9	26.1	26.4
8H	25.8	27.1	26.2	27.3	27.6	24.6	25.9	25.0	26.2	26.4
12H	25.9	27.1	26.2	27.4	27.7	24.7	25.9	25.0	26.2	26.5
4H 2H	23.4	24.8	23.7	25.0	25.3	22.8	24.2	23.1	24.4	24.7
3H	25.3	26.5	25.7	26.8	27.1	24.5	25.7	24.8	26.0	26.3
4H	26.1	27.2	26.5	27.5	27.9	25.2	26.2	25.5	26.6	26.9
6H	26.7	27.7	27.1	28.0	28.4	25.6	26.6	26.0	27.0	27.3
8H	26.9	27.8	27.3	28.1	28.5	25.8	26.7	26.2	27.1	27.4
12H	27.0	27.8	27.4	28.2	28.6	25.9	26.7	26.3	27.1	27.5
8H 4H	26.3	27.2	26.7	27.6	28.0	25.5	26.4	25.9	26.7	27.1
6H	27.0	27.8	27.5	28.2	28.6	26.1	26.8	26.5	27.3	27.7
8H	27.3	28.0	27.8	28.4	28.8	26.3	27.0	26.8	27.4	27.9
12H	27.4	28.0	27.9	28.5	28.9	26.5	27.0	26.9	27.5	28.0
12H 4H	26.3	27.1	26.7	27.5	27.9	25.5	26.3	25.9	26.7	27.1
6H	27.1	27.7	27.5	28.2	28.6	26.2	26.8	26.6	27.3	27.7
8H	27.4	27.9	27.8	28.4	28.9	26.4	27.0	26.9	27.4	27.9
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, 5593 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.0)
Area: 0.11781 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:Alan Wang
Test Date:2026-02-11

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_100%_3000K

UTILIZATION FACTORS TABLE

Test:U:120.03V I:0.4041A P:48.311W PF:0.9961 Freq:60.01Hz Lamp Flux:5592.52x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

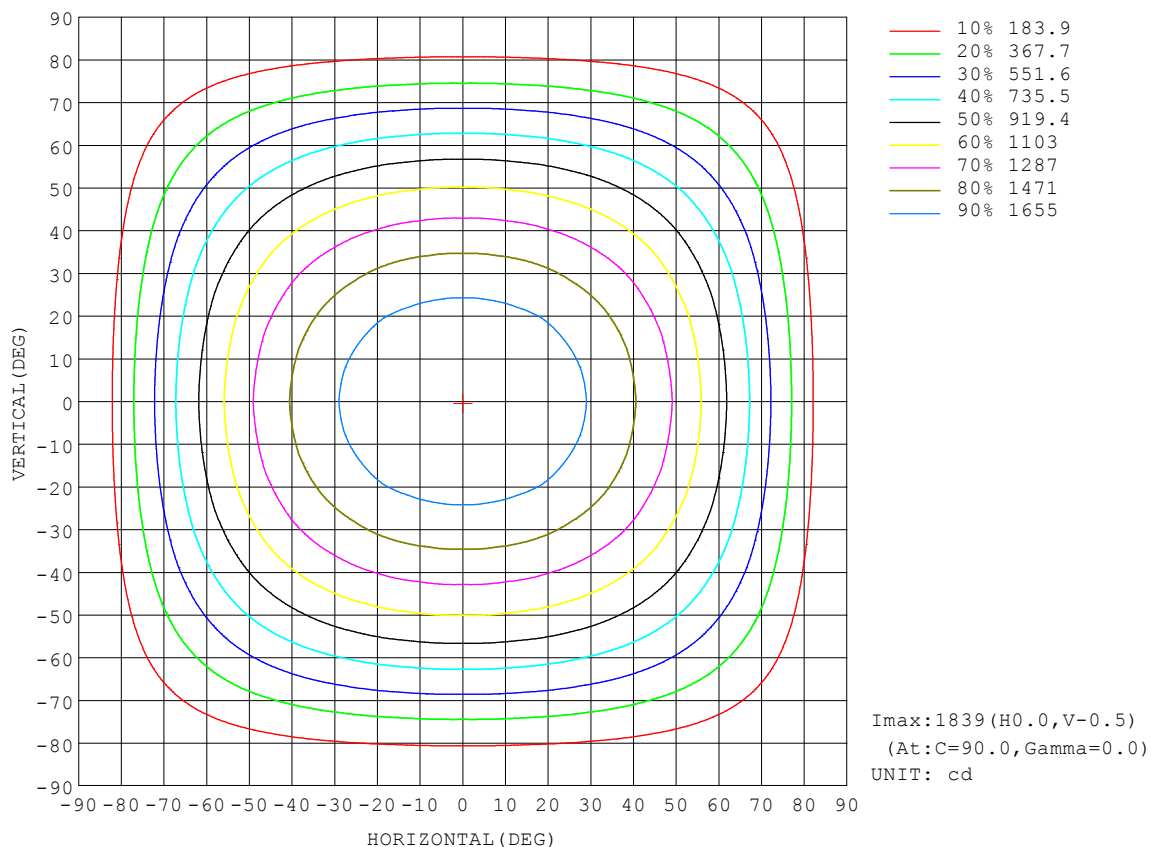
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	44	38	55	44	37	31
0.80	67	55	47	66	54	47	64	53	47	40
1.00	75	64	56	74	63	56	72	65	55	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	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	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	103	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: 25.2°C
Operators: Alan Wang
Test Date: 2026-02-11

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_100%_3000K

ISOCANDELA DIAGRAM

Test:U:120.03V I:0.4041A P:48.311W PF:0.9961 Freq:60.01Hz Lamp Flux:5592.52x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

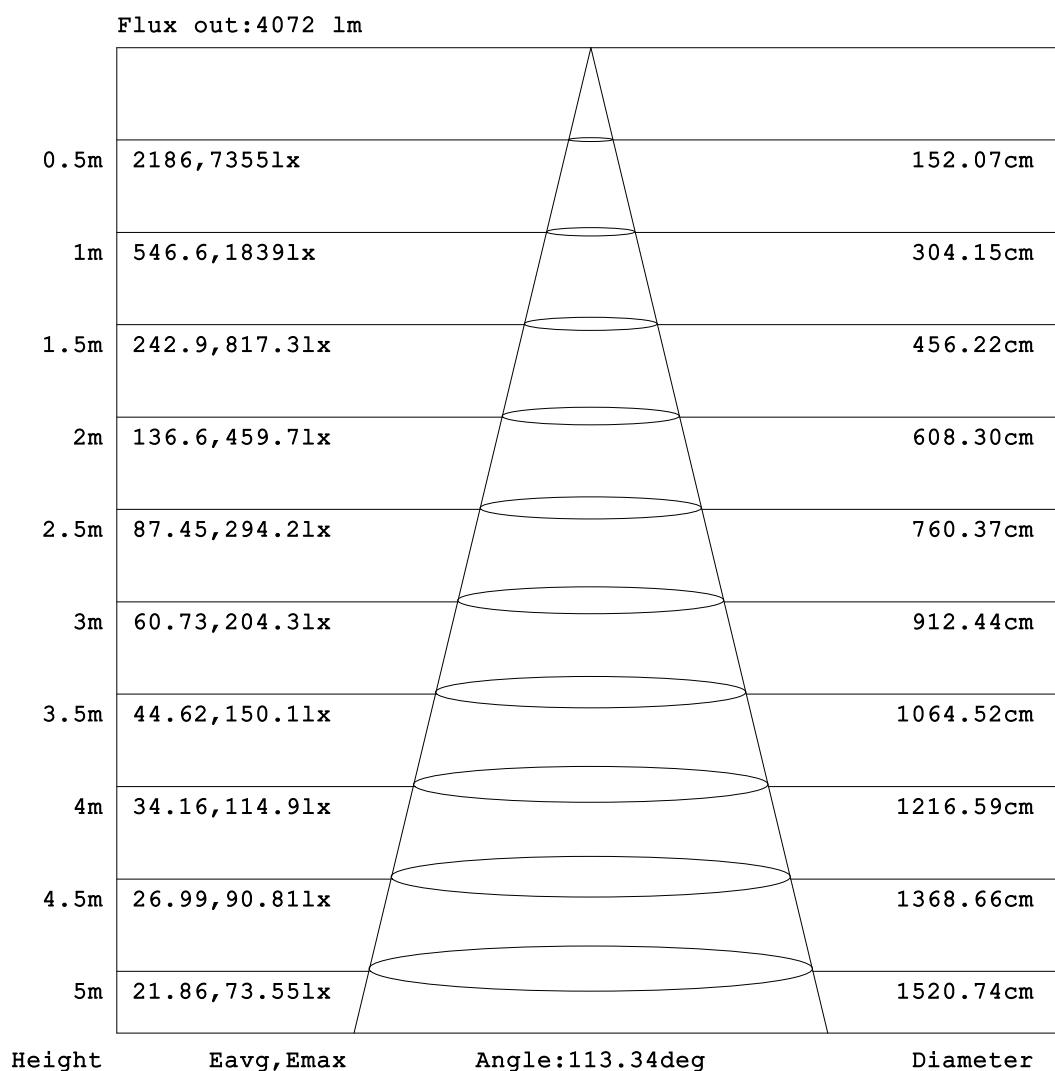


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2°C
Operators:Alan Wang
Test Date:2026-02-11

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_100%_3000K

AAI Figure

Test:U:120.03V I:0.4041A P:48.311W PF:0.9961 Freq:60.01Hz Lamp Flux:5592.52x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



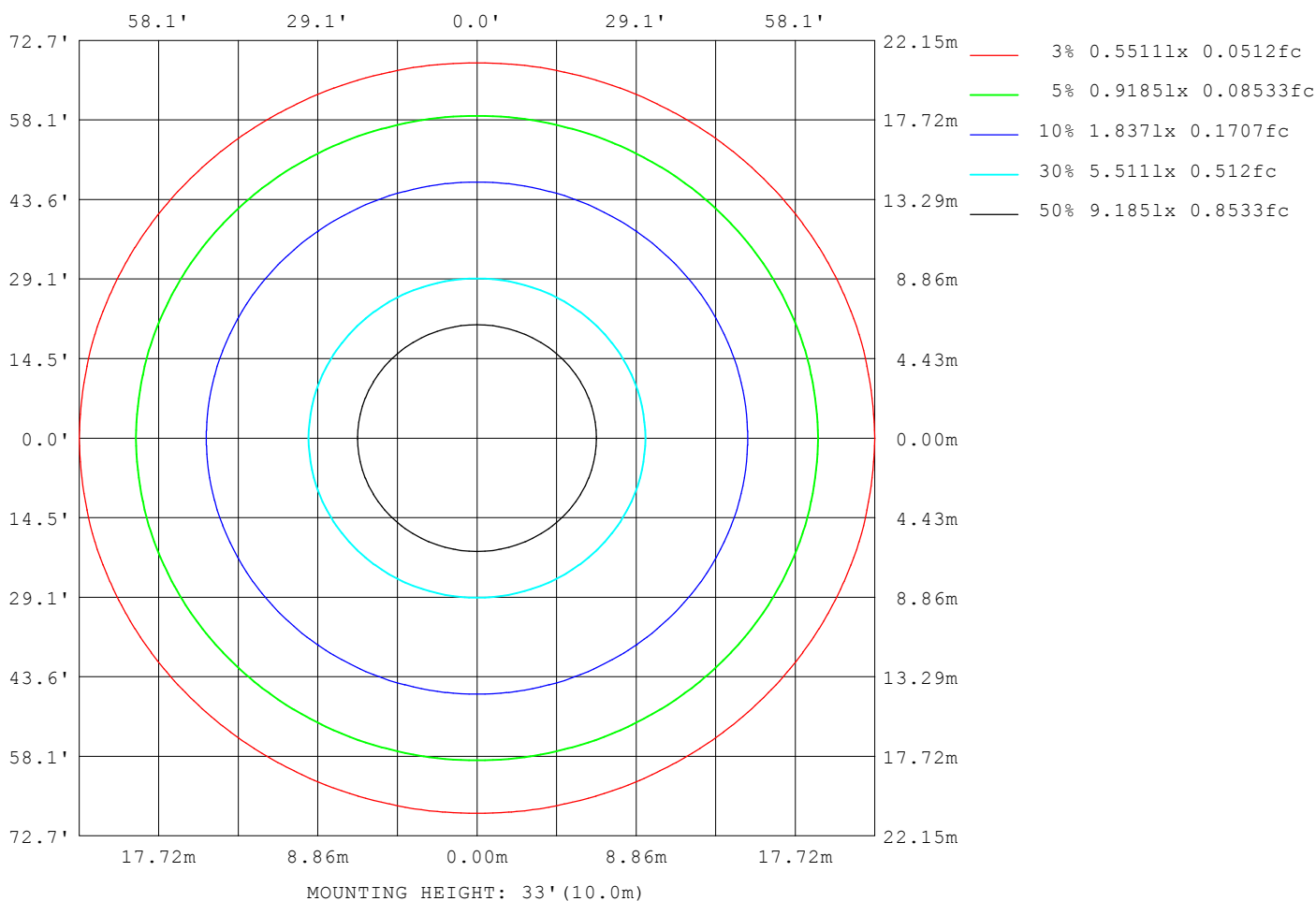
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2°C
Operators:Alan Wang
Test Date:2026-02-11

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_100%_3000K

ISOLUX DIAGRAM

Test:U:120.03V I:0.4041A P:48.311W PF:0.9961 Freq:60.01Hz Lamp Flux:5592.52x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_3000K	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:2026-02-11

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_100%_3000K

LED Avg.L Report

Test:U:120.03V I:0.4041A P:48.311W PF:0.9961 Freq:60.01Hz Lamp Flux:5592.52x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

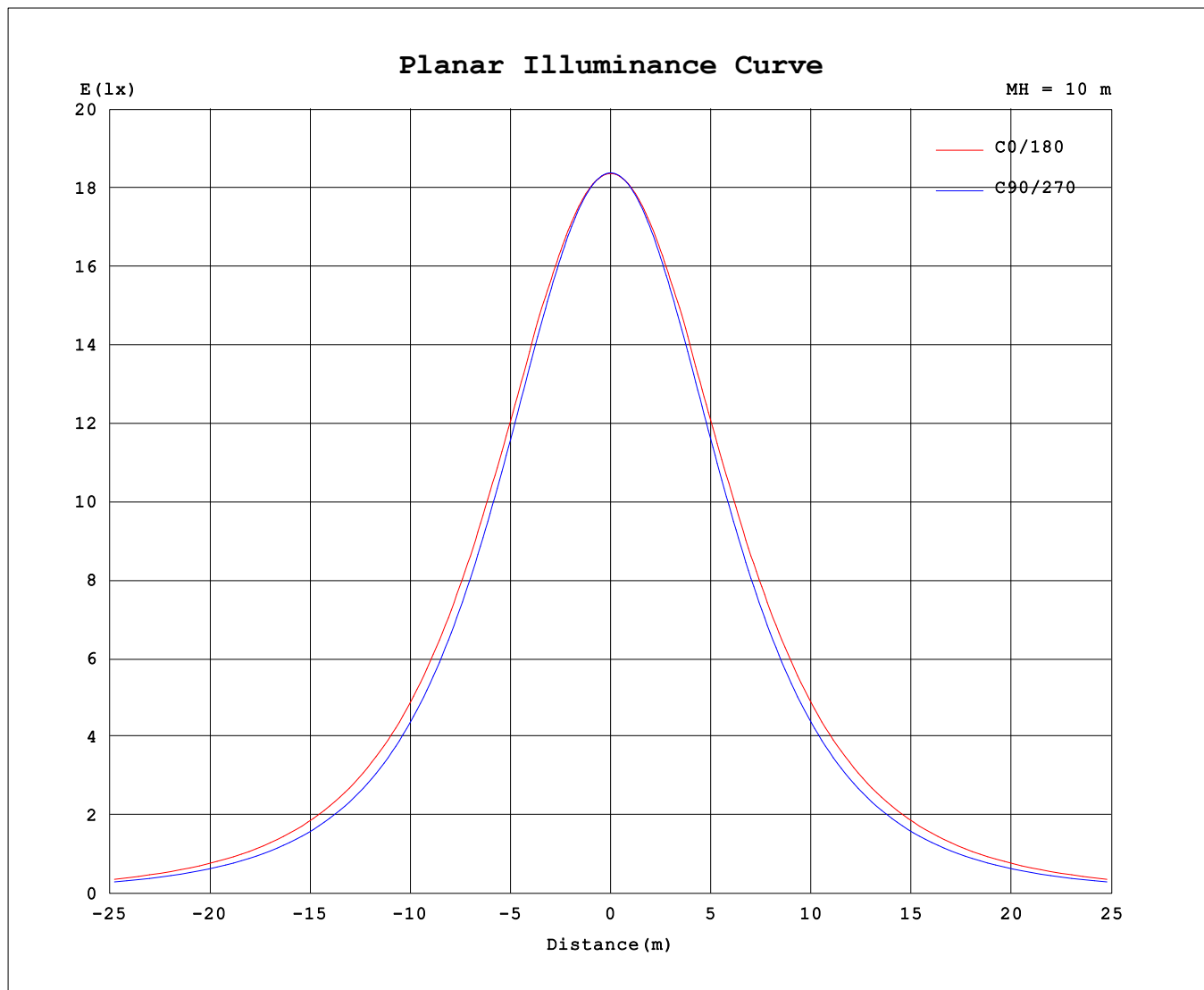
AvgL	cd/m2
L_0~180 (65) av	16348
L_0~180 (75) av	14620
L_0~180 (85) av	8943
L_90~270 (65) av	13372
L_90~270 (75) av	11540
L_90~270 (85) av	7300
L_45 (65) av	14692
L_45 (75) av	12850
L_45 (85) av	8020

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:Alan Wang
Test Date:2026-02-11

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_100%_3000K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.2°C
Operators: Alan Wang
Test Date: 2026-02-11

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_100%_300

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.03V I:0.4041A P:48.311W PF:0.9961 Freq:60.01Hz Lamp Flux:5592.52x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_3000K	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	1837	1837	1837	1838	1838	1839	1839	1839	1838	1838	1837	1837	1837	1837	1837	1838	1838	1839	1839
5	1832	1831	1831	1831	1831	1831	1831	1831	1831	1831	1831	1831	1832	1831	1831	1831	1831	1831	1831
10	1816	1815	1814	1811	1809	1807	1807	1807	1809	1811	1814	1815	1816	1815	1814	1811	1809	1807	1807
15	1790	1787	1784	1778	1773	1769	1767	1769	1773	1778	1784	1787	1790	1787	1784	1778	1773	1769	1767
20	1759	1754	1745	1732	1722	1715	1712	1715	1722	1732	1745	1754	1759	1754	1745	1732	1722	1715	1712
25	1703	1698	1689	1676	1658	1647	1643	1647	1658	1676	1689	1698	1703	1698	1689	1676	1658	1647	1643
30	1643	1637	1620	1602	1579	1565	1559	1565	1579	1602	1620	1637	1643	1637	1620	1602	1579	1565	1559
35	1568	1561	1542	1513	1490	1471	1464	1471	1490	1513	1542	1561	1568	1561	1542	1513	1490	1471	1464
40	1481	1472	1448	1415	1388	1363	1355	1363	1388	1415	1448	1472	1481	1472	1448	1415	1388	1363	1355
45	1378	1367	1340	1302	1268	1244	1236	1244	1268	1302	1340	1367	1378	1367	1340	1302	1268	1244	1236
50	1265	1251	1217	1179	1140	1115	1106	1115	1140	1179	1217	1251	1265	1251	1217	1179	1140	1115	1106
55	1129	1116	1083	1041	1002	977	968	977	1002	1041	1083	1116	1129	1116	1083	1041	1002	977	968
60	979	966	933	891	854	829	820	829	854	891	933	966	979	966	933	891	854	829	820
65	814	802	770	732	697	674	666	674	697	732	770	802	814	802	770	732	697	674	666
70	634	627	596	563	534	514	508	514	534	563	596	627	634	627	596	563	534	514	508
75	446	438	417	392	370	357	352	357	370	392	417	438	446	438	417	392	370	357	352
80	259	254	241	226	213	205	202	205	213	226	241	254	259	254	241	226	213	205	202
85	91.8	90.8	86.6	82.3	78.6	76.0	75.0	76.0	78.6	82.3	86.6	90.8	91.8	90.8	86.6	82.3	78.6	76.0	75.0
90	1.79	2.30	2.42	3.88	4.87	6.20	6.56	6.20	4.87	3.88	2.42	2.30	1.79	2.30	2.42	3.88	4.87	6.20	6.56
95	0.27	0.31	0.53	0.65	0.69	0.71	0.74	0.71	0.69	0.65	0.53	0.31	0.27	0.31	0.53	0.65	0.69	0.71	0.74
100	0.49	0.57	0.79	0.86	0.89	0.92	0.96	0.92	0.89	0.86	0.79	0.57	0.49	0.57	0.79	0.86	0.89	0.92	0.96
105	0.61	0.72	0.98	1.05	1.07	1.06	1.10	1.06	1.07	1.05	0.98	0.72	0.61	0.72	0.98	1.05	1.07	1.06	1.10
110	0.71	0.85	1.11	1.18	1.22	1.23	1.22	1.23	1.22	1.18	1.11	0.85	0.71	0.85	1.11	1.18	1.22	1.23	1.22
115	0.79	0.98	1.23	1.31	1.35	1.38	1.37	1.38	1.35	1.31	1.23	0.98	0.79	0.98	1.23	1.31	1.35	1.38	1.37
120	0.90	1.07	1.32	1.41	1.47	1.49	1.48	1.49	1.47	1.41	1.32	1.07	0.90	1.07	1.32	1.41	1.47	1.49	1.48
125	1.07	1.27	1.42	1.50	1.59	1.63	1.60	1.63	1.59	1.50	1.42	1.27	1.07	1.27	1.42	1.50	1.59	1.63	1.60
130	1.34	1.53	1.69	1.76	1.85	1.92	1.89	1.92	1.85	1.76	1.69	1.53	1.34	1.53	1.69	1.76	1.85	1.92	1.89
135	1.66	1.81	2.01	2.09	2.16	2.26	2.26	2.26	2.16	2.09	2.01	1.81	1.66	1.81	2.01	2.09	2.16	2.26	2.26
140	2.08	2.20	2.44	2.54	2.61	2.72	2.75	2.72	2.61	2.54	2.44	2.20	2.08	2.20	2.44	2.54	2.61	2.72	2.75
145	2.55	2.62	2.84	3.01	3.15	3.22	3.28	3.22	3.15	3.01	2.84	2.62	2.55	2.62	2.84	3.01	3.15	3.22	3.28
150	2.92	2.96	3.16	3.37	3.54	3.64	3.72	3.64	3.54	3.37	3.16	2.96	2.92	2.96	3.16	3.37	3.54	3.64	3.72
155	3.17	3.22	3.35	3.58	3.78	3.90	4.01	3.90	3.78	3.58	3.35	3.22	3.17	3.22	3.35	3.58	3.78	3.90	4.01
160	3.29	3.35	3.45	3.59	3.83	4.01	4.08	4.01	3.83	3.59	3.45	3.35	3.29	3.35	3.45	3.59	3.83	4.01	4.08
165	3.35	3.42	3.47	3.60	3.79	3.95	3.99	3.95	3.79	3.60	3.47	3.42	3.35	3.42	3.47	3.60	3.79	3.95	3.99
170	3.41	3.47	3.51	3.60	3.73	3.85	3.88	3.85	3.73	3.60	3.51	3.47	3.41	3.47	3.51	3.60	3.73	3.85	3.88
175	3.41	3.48	3.52	3.59	3.69	3.78	3.79	3.78	3.69	3.59	3.52	3.48	3.41	3.48	3.52	3.59	3.69	3.78	3.79
180	3.45	3.51	3.57	3.63	3.71	3.83	3.88	3.83	3.71	3.63	3.57	3.51	3.45	3.51	3.57	3.63	3.71	3.83	3.88

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:Alan Wang
Test Date:2026-02-11

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_100%_300

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.03V I:0.4041A P:48.311W PF:0.9961 Freq:60.01Hz Lamp Flux:5592.52x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_3000K	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	1839	1838	1838	1837	1837													
5	1831	1831	1831	1831	1831													
10	1807	1809	1811	1814	1815													
15	1769	1773	1778	1784	1787													
20	1715	1722	1732	1745	1754													
25	1647	1658	1676	1689	1698													
30	1565	1579	1602	1620	1637													
35	1471	1490	1513	1542	1561													
40	1363	1388	1415	1448	1472													
45	1244	1268	1302	1340	1367													
50	1115	1140	1179	1217	1251													
55	977	1002	1041	1083	1116													
60	829	854	891	933	966													
65	674	697	732	770	802													
70	514	534	563	596	627													
75	357	370	392	417	438													
80	205	213	226	241	254													
85	76.0	78.6	82.3	86.6	90.8													
90	6.20	4.87	3.88	2.42	2.30													
95	0.71	0.69	0.65	0.53	0.31													
100	0.92	0.89	0.86	0.79	0.57													
105	1.06	1.07	1.05	0.98	0.72													
110	1.23	1.22	1.18	1.11	0.85													
115	1.38	1.35	1.31	1.23	0.98													
120	1.49	1.47	1.41	1.32	1.07													
125	1.63	1.59	1.50	1.42	1.27													
130	1.92	1.85	1.76	1.69	1.53													
135	2.26	2.16	2.09	2.01	1.81													
140	2.72	2.61	2.54	2.44	2.20													
145	3.22	3.15	3.01	2.84	2.62													
150	3.64	3.54	3.37	3.16	2.96													
155	3.90	3.78	3.58	3.35	3.22													
160	4.01	3.83	3.59	3.45	3.35													
165	3.95	3.79	3.60	3.47	3.42													
170	3.85	3.73	3.60	3.51	3.47													
175	3.78	3.69	3.59	3.52	3.48													
180	3.83	3.71	3.63	3.57	3.51													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2℃
Operators:Alan Wang
Test Date:2026-02-11

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_100%_3000K