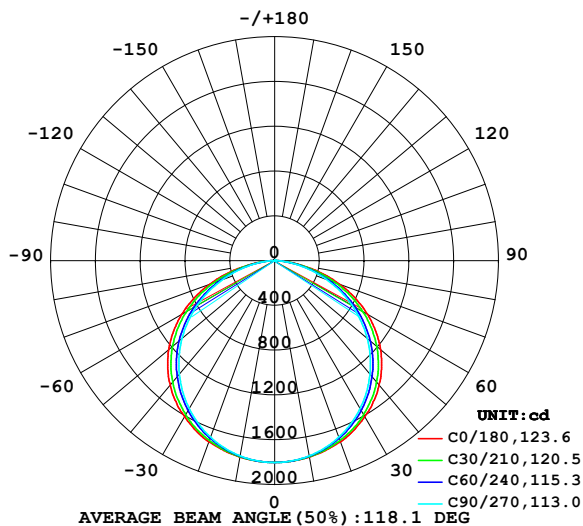


LUMINAIRE PHOTOMETRIC TEST REPORT

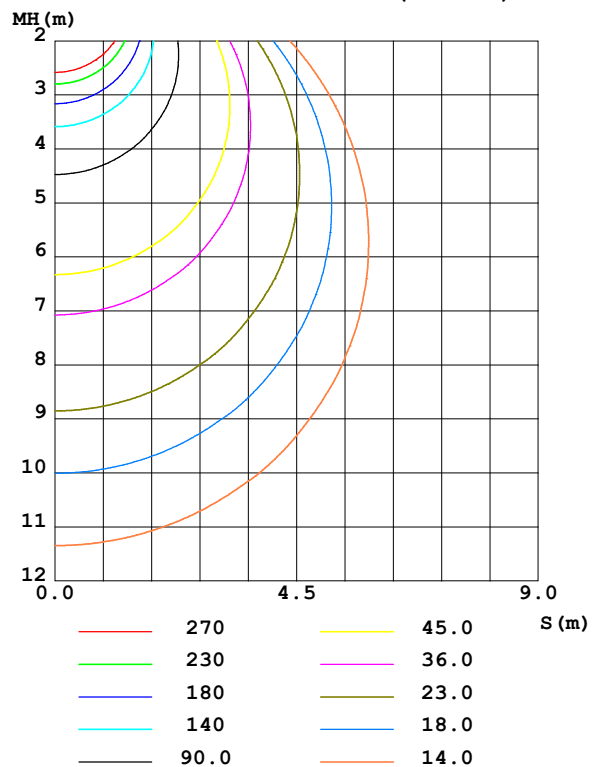
Test:U:277.00V I:0.1831A P:48.423W PF:0.9547 Freq:50.01Hz Lamp Flux:5459.53x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_277V_100%_2700TYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 112.75 lm/W			
MODEL		I _{max} (cd)	1803	S/MH(C0/180)	1.33
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	277	TOTAL FLUX(lm)	5459.5	η UP,DN(C0-180)	0.1,49.9
NOMINAL FLUX(lm)	5459.53	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)	276.968	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_277V_100%

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

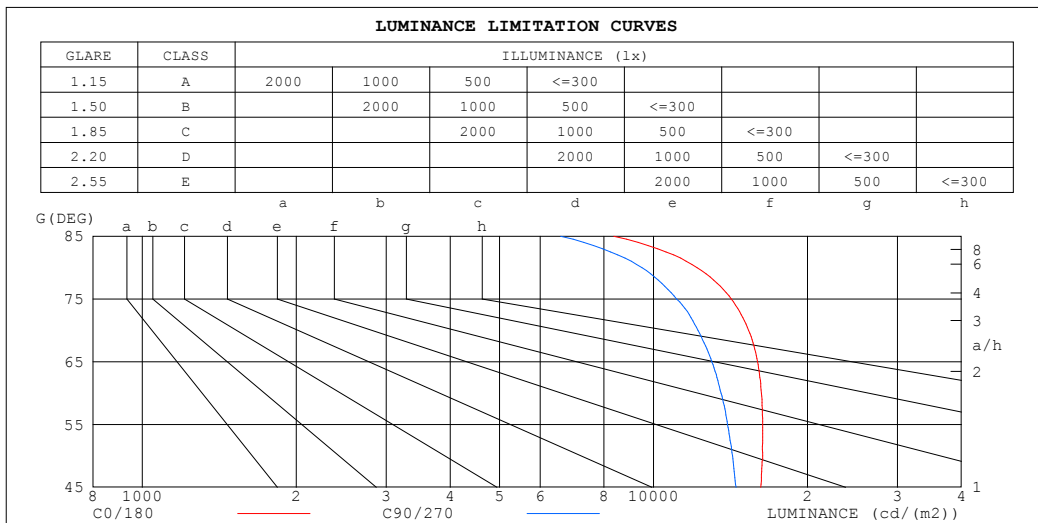
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1781	1777	1771	1777	1781	1777	1771	1777	0- 10	170.8	170.8	3.13,3.13
20	1722	1698	1678	1698	1722	1698	1678	1698	10- 20	492.5	663.3	12.2,12.2
30	1610	1570	1527	1570	1610	1570	1527	1570	20- 30	756.4	1420	26,26
40	1452	1384	1325	1384	1452	1384	1325	1384	30- 40	928.7	2348	43,43
50	1238	1152	1080	1152	1238	1152	1080	1152	40- 50	984.7	3333	61.1,61.1
60	957.2	868.6	798.6	868.6	957.2	868.6	798.6	868.6	50- 60	910.4	4244	77.7,77.7
70	618.2	545.7	492.2	545.7	618.2	545.7	492.2	545.7	60- 70	706.9	4950	90.7,90.7
80	249.0	216.8	194.1	216.8	249.0	216.8	194.1	216.8	70- 80	403.1	5354	98.1,98.1
90	2.075	2.539	1.844	2.539	2.075	2.539	1.844	2.539	80- 90	95.50	5449	99.8,99.8
100	0.4796	0.8266	0.9185	0.8266	0.4796	0.8266	0.9185	0.8266	90-100	0.7650	5450	99.8,99.8
110	0.6960	1.149	1.178	1.149	0.6960	1.149	1.178	1.149	100-110	0.9844	5451	99.8,99.8
120	0.8884	1.382	1.437	1.382	0.8884	1.382	1.437	1.382	110-120	1.175	5452	99.9,99.9
130	1.302	1.711	1.807	1.711	1.302	1.711	1.807	1.711	120-130	1.292	5453	99.9,99.9
140	2.031	2.468	2.616	2.468	2.031	2.468	2.616	2.468	130-140	1.549	5455	99.9,99.9
150	2.852	3.286	3.557	3.286	2.852	3.286	3.557	3.286	140-150	1.774	5457	99.9,99.9
160	3.268	3.572	3.949	3.572	3.268	3.572	3.949	3.572	150-160	1.599	5458	100,100
170	3.389	3.515	3.784	3.515	3.389	3.515	3.784	3.515	160-170	1.010	5459	100,100
180	3.428	3.526	3.759	3.526	3.428	3.526	3.759	3.526	170-180	0.3376	5460	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_277V_100:

LUMINANCE LIMITATION CURVES

Test:U:277.00V I:0.1831A P:48.423W PF:0.9547 Freq:50.01Hz Lamp Flux:5459.53x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_277V_100%_2700KTYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8365	6583
80	12171	9489
75	14194	11100
70	15343	12214
65	15973	13005
60	16249	13557
55	16348	13956
50	16349	14268
45	16217	14495

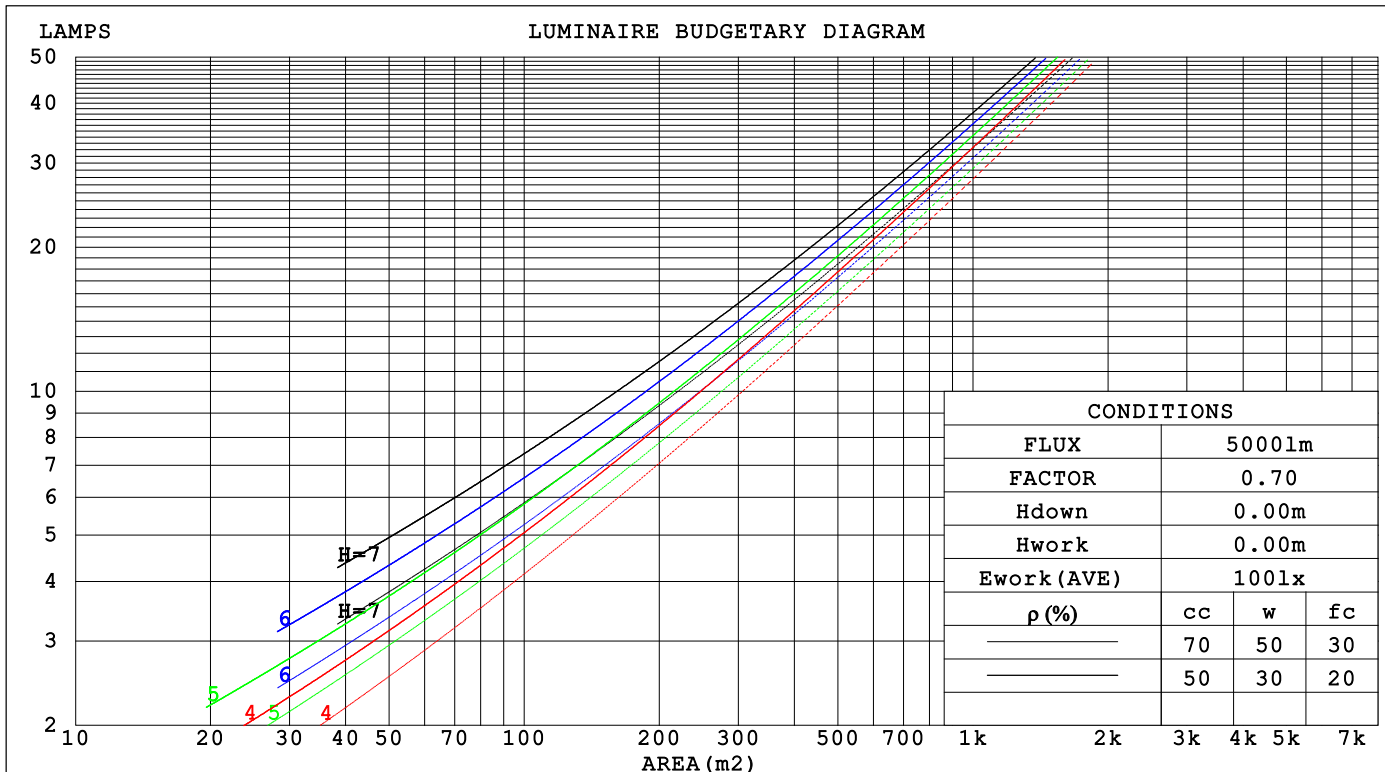
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.2°C
Operators: Alan Wang
Test Date: 2026-02-11

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_277V_100%

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:277.00V I:0.1831A P:48.423W PF:0.9547 Freq:50.01Hz Lamp Flux:5459.53x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_277V_100%_2700TYPE:		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	.58
4.0	.70	.61	.54	.68	.60	.53	.66	.58	.53	.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	.40	.51	.44	.39	.50	.43	.39	.37
7.0	.50	.42	.35	.50	.41	.35	.48	.40	.35	.47	.40	.35	.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	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.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_277V_100%

WEC AND CCEC

Test:U:277.00V I:0.1831A P:48.423W PF:0.9547 Freq:50.01Hz Lamp Flux:5459.53x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_277V_100%_2700K 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	.175	.055	.293	.168	.054	.280	.162	.052	.269	.156	.050		
2.0	.295	.162	.050	.289	.159	.049	.277	.154	.048	.266	.149	.047	.256	.145	.046		
3.0	.273	.146	.044	.268	.143	.043	.257	.140	.042	.248	.136	.042	.239	.132	.041		
4.0	.252	.131	.039	.247	.129	.038	.238	.126	.038	.229	.123	.037	.221	.120	.037		
5.0	.233	.119	.034	.229	.117	.034	.220	.115	.034	.213	.112	.033	.205	.110	.033		
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.191	.101	.030		
7.0	.201	.099	.028	.197	.098	.028	.191	.096	.028	.185	.095	.028	.179	.093	.027		
8.0	.187	.092	.026	.184	.091	.026	.178	.089	.025	.173	.088	.025	.168	.086	.025		
9.0	.176	.085	.024	.173	.084	.024	.167	.083	.023	.162	.081	.023	.158	.080	.023		
10.0	.165	.079	.022	.162	.078	.022	.158	.077	.022	.153	.076	.022	.149	.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	.158	.136	.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	.118	.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	.057	.023	.075	.040	.016	.043	.024	.010	.014	.008	.003		
10.0	.119	.062	.024	.103	.054	.021	.071	.038	.015	.042	.022	.009	.013	.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_277V_100%

UGR(Unified Glare Rating) Table

Test:U:277.00V I:0.1831A P:48.423W PF:0.9547 Freq:50.01Hz Lamp Flux:5459.53x1 lm										
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_277V_100%_2700TYPE:								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	22.8	24.3	23.1	24.5	24.7	22.0	23.5	22.3	23.7	24.0
3H	24.5	25.9	24.8	26.1	26.4	23.5	24.9	23.8	25.1	25.4
4H	25.1	26.5	25.5	26.8	27.0	24.0	25.4	24.3	25.6	25.9
6H	25.6	26.9	25.9	27.1	27.4	24.4	25.7	24.7	26.0	26.2
8H	25.7	26.9	26.0	27.2	27.5	24.5	25.7	24.8	26.0	26.3
12H	25.7	26.9	26.1	27.2	27.5	24.5	25.7	24.9	26.0	26.3
4H 2H	23.3	24.7	23.6	24.9	25.2	22.7	24.1	23.0	24.3	24.6
3H	25.2	26.4	25.6	26.7	27.0	24.4	25.5	24.7	25.8	26.2
4H	26.0	27.1	26.4	27.4	27.7	25.0	26.1	25.4	26.4	26.8
6H	26.6	27.5	27.0	27.9	28.3	25.5	26.5	25.9	26.8	27.2
8H	26.7	27.6	27.1	28.0	28.4	25.6	26.5	26.1	26.9	27.3
12H	26.8	27.6	27.2	28.0	28.4	25.7	26.5	26.1	26.9	27.3
8H 4H	26.2	27.1	26.6	27.5	27.9	25.3	26.2	25.8	26.6	27.0
6H	26.9	27.6	27.3	28.1	28.5	26.0	26.7	26.4	27.1	27.5
8H	27.1	27.8	27.6	28.2	28.7	26.2	26.8	26.6	27.3	27.7
12H	27.3	27.9	27.8	28.3	28.8	26.3	26.9	26.8	27.3	27.8
12H 4H	26.2	27.0	26.6	27.4	27.8	25.4	26.2	25.8	26.6	27.0
6H	26.9	27.6	27.4	28.0	28.5	26.0	26.7	26.5	27.1	27.6
8H	27.2	27.8	27.7	28.2	28.7	26.3	26.8	26.7	27.3	27.8
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, 5460 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.9)
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_277V_100%

UTILIZATION FACTORS TABLE

Test:U:277.00V I:0.1831A P:48.423W PF:0.9547 Freq:50.01Hz Lamp Flux:5459.53x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_277V_100%_2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

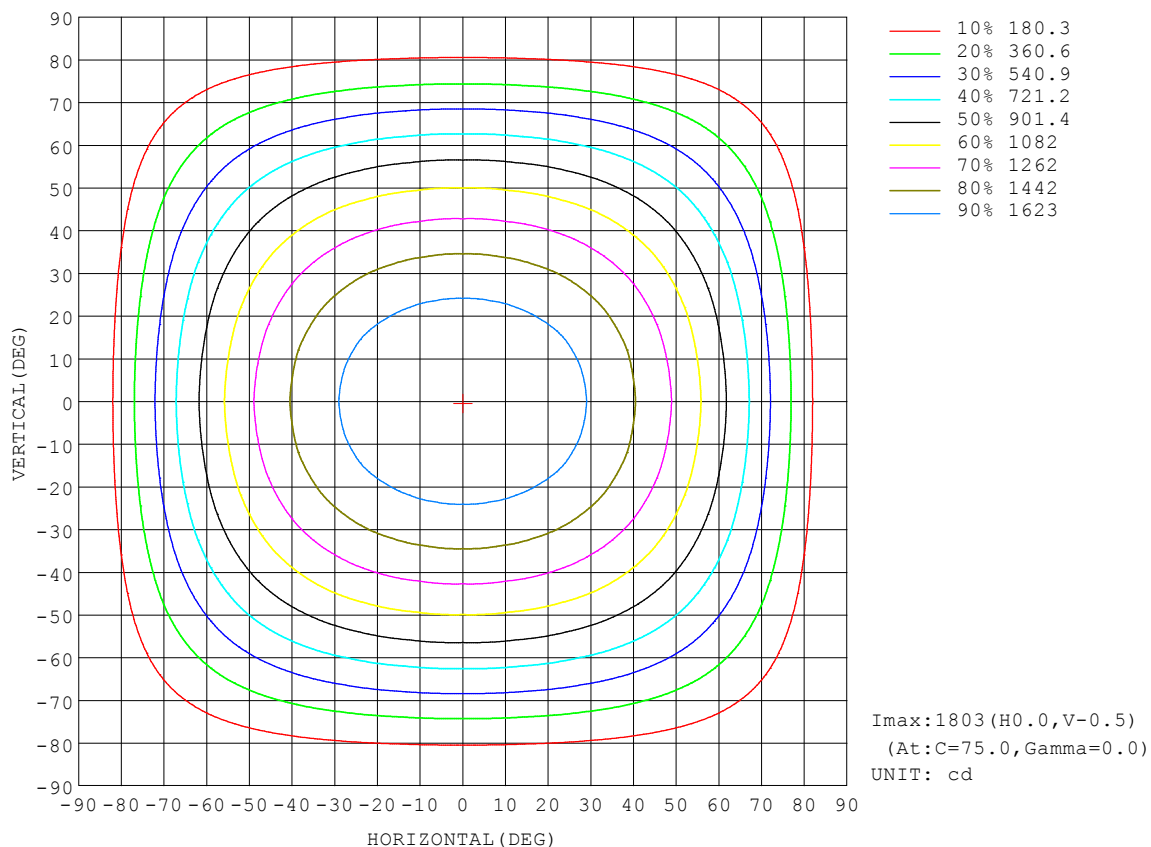
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	37	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	56	48
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	83	75	69	61
2.00	94	86	79	93	85	78	89	82	77	69
2.50	98	91	84	96	89	83	92	86	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	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: 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_277V_100%

ISOCANDELA DIAGRAM

Test:U:277.00V I:0.1831A P:48.423W PF:0.9547 Freq:50.01Hz Lamp Flux:5459.53x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_277V_100%_2700K TYPE:	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

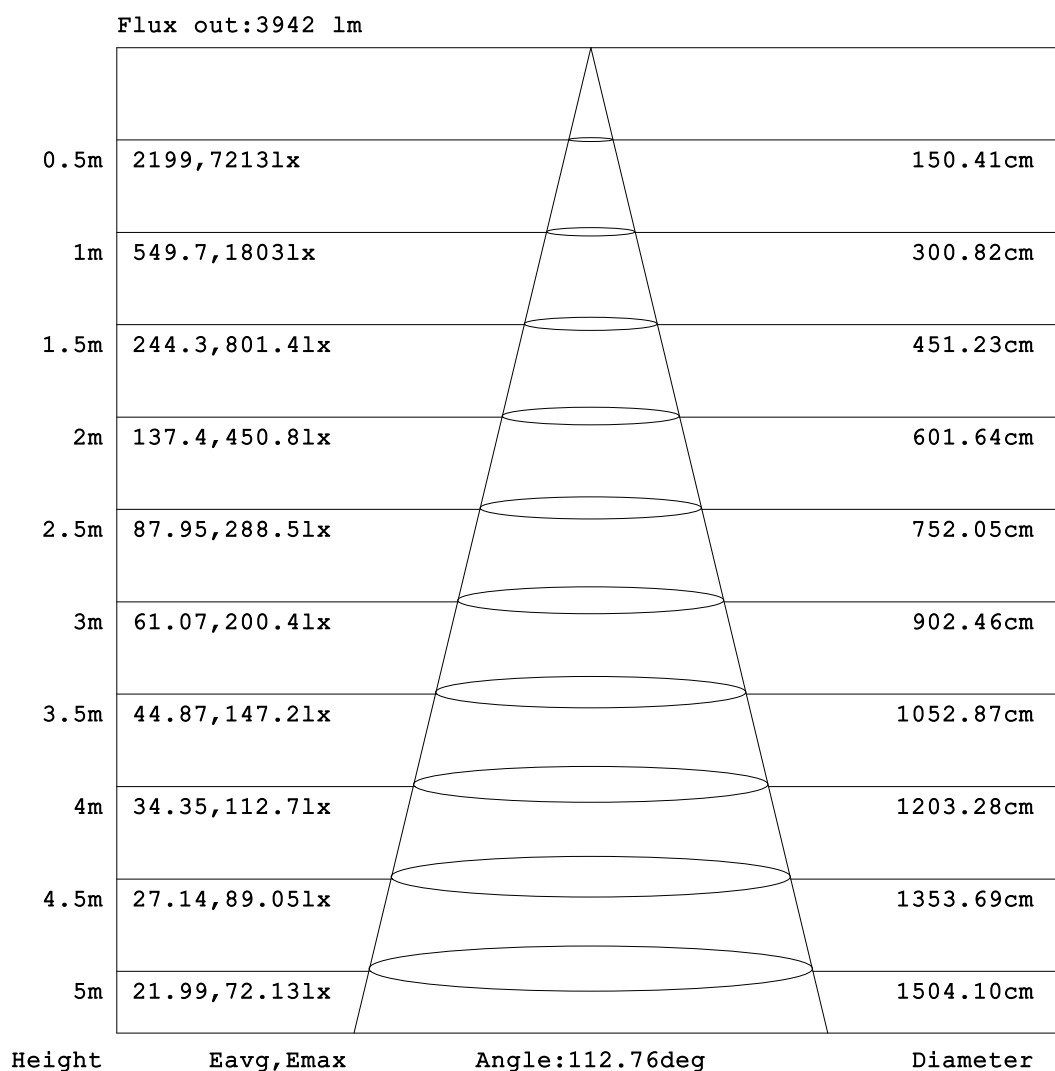


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2°C
Operators:Alan Wang
Test Date:2026-02-11

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_277V_100%

AAI Figure

Test:U:277.00V I:0.1831A P:48.423W PF:0.9547 Freq:50.01Hz Lamp Flux:5459.53x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_277V_100%_2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



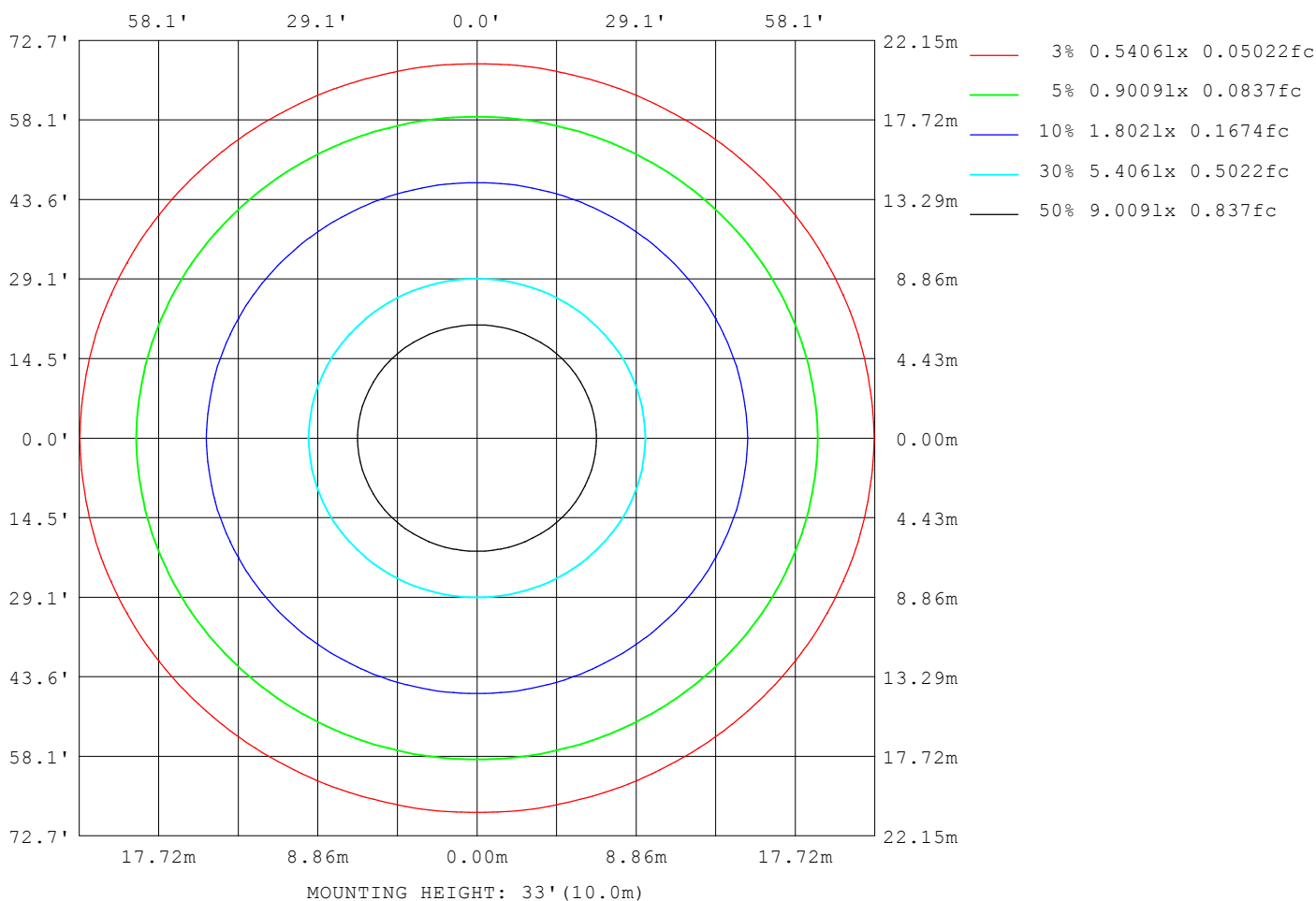
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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_277V_100%

ISOLUX DIAGRAM

Test:U:277.00V I:0.1831A P:48.423W PF:0.9547 Freq:50.01Hz Lamp Flux:5459.53x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_277V_100%_2700TYPE:	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_277V_100%

LED Avg.L Report

Test:U:277.00V I:0.1831A P:48.423W PF:0.9547 Freq:50.01Hz Lamp Flux:5459.53x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_277V_100%_2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

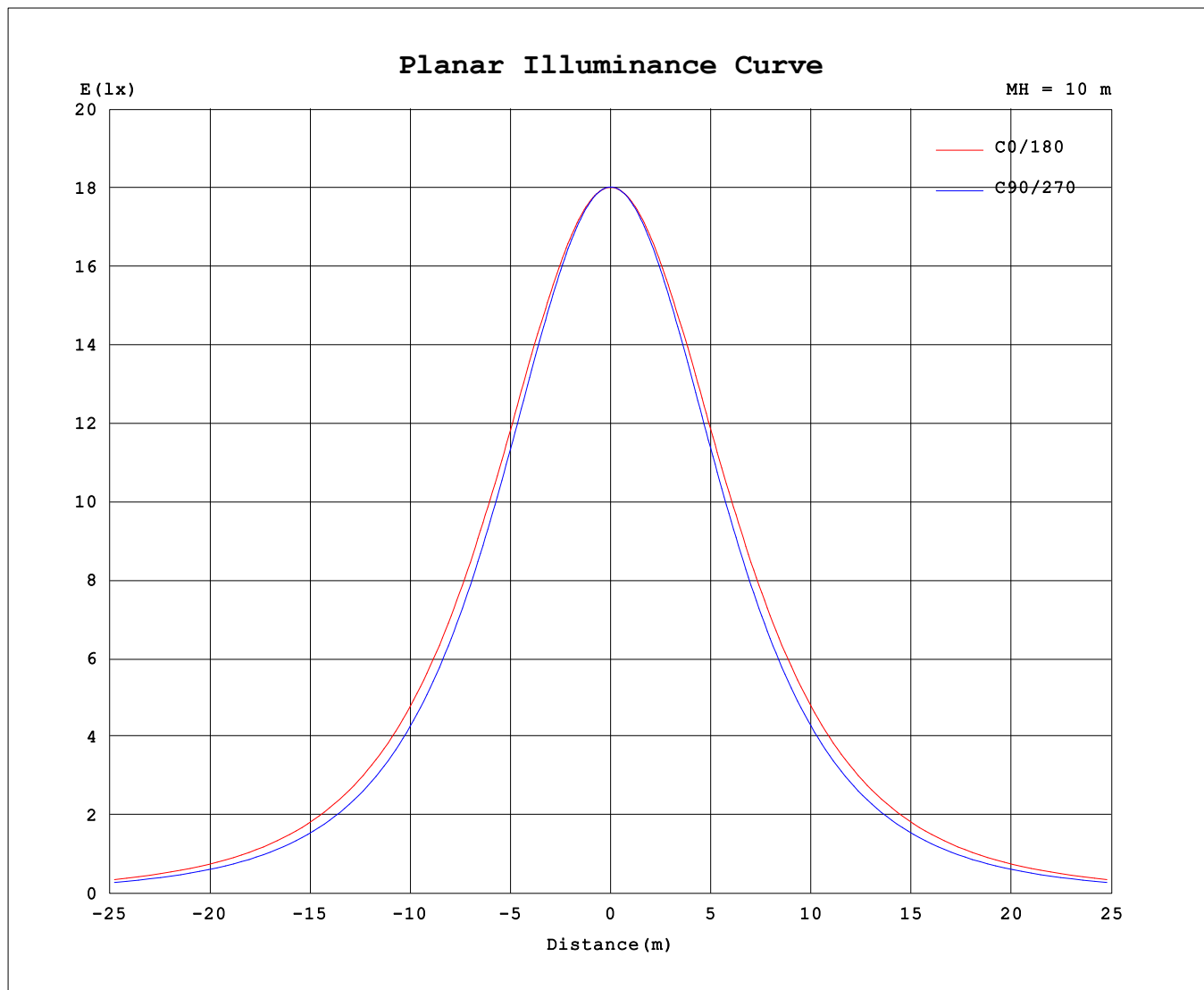
AvgL	cd/m2
L_0~180 (65) av	15973
L_0~180 (75) av	14194
L_0~180 (85) av	8364
L_90~270 (65) av	13005
L_90~270 (75) av	11100
L_90~270 (85) av	6583
L_45 (65) av	14300
L_45 (75) av	12394
L_45 (85) av	7375

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_277V_100%

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_277V_100:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.00V I:0.1831A P:48.423W PF:0.9547 Freq:50.01Hz Lamp Flux:5459.53x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_277V_100%_2700TYPE:	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	1802	1803	1802	1803	1803	1803	1803	1803	1803	1803	1802	1803	1802	1803	1802	1803	1803	1803	1803
5	1797	1797	1797	1796	1796	1795	1795	1795	1796	1796	1797	1797	1797	1797	1797	1796	1796	1795	1795
10	1781	1781	1779	1777	1774	1772	1771	1772	1774	1777	1779	1781	1781	1781	1779	1777	1774	1772	1771
15	1755	1754	1750	1744	1738	1734	1732	1734	1738	1744	1750	1754	1755	1754	1750	1744	1738	1734	1732
20	1722	1717	1708	1698	1688	1681	1678	1681	1688	1698	1708	1717	1722	1717	1708	1698	1688	1681	1678
25	1673	1669	1657	1639	1624	1613	1609	1613	1624	1639	1657	1669	1673	1669	1657	1639	1624	1613	1609
30	1610	1604	1589	1570	1547	1532	1527	1532	1547	1570	1589	1604	1610	1604	1589	1570	1547	1532	1527
35	1538	1532	1509	1485	1457	1439	1432	1439	1457	1485	1509	1532	1538	1532	1509	1485	1457	1439	1432
40	1452	1443	1418	1384	1354	1333	1325	1333	1354	1384	1418	1443	1452	1443	1418	1384	1354	1333	1325
45	1351	1340	1312	1274	1241	1216	1208	1216	1241	1274	1312	1340	1351	1340	1312	1274	1241	1216	1208
50	1238	1222	1192	1152	1116	1089	1080	1089	1116	1152	1192	1222	1238	1222	1192	1152	1116	1089	1080
55	1105	1090	1057	1016	977	952	943	952	977	1016	1057	1090	1105	1090	1057	1016	977	952	943
60	957	942	909	869	832	807	799	807	832	869	909	942	957	942	909	869	832	807	799
65	795	780	750	712	678	655	647	655	678	712	750	780	795	780	750	712	678	655	647
70	618	604	578	546	517	499	492	499	517	546	578	604	618	604	578	546	517	499	492
75	433	422	402	378	357	343	338	343	357	378	402	422	433	422	402	378	357	343	338
80	249	242	231	217	204	196	194	196	204	217	231	242	249	242	231	217	204	196	194
85	85.9	84.5	80.4	75.7	71.8	69.0	67.6	69.0	71.8	75.7	80.4	84.5	85.9	84.5	80.4	75.7	71.8	69.0	67.6
90	2.08	3.06	2.28	2.54	2.55	2.44	1.84	2.44	2.55	2.54	2.28	3.06	2.08	3.06	2.28	2.54	2.55	2.44	1.84
95	0.27	0.32	0.52	0.64	0.68	0.70	0.72	0.70	0.68	0.64	0.52	0.32	0.27	0.32	0.52	0.64	0.68	0.70	0.72
100	0.48	0.55	0.77	0.83	0.87	0.89	0.92	0.89	0.87	0.83	0.77	0.55	0.48	0.55	0.77	0.83	0.87	0.89	0.92
105	0.60	0.71	0.96	1.03	1.04	1.04	1.07	1.04	1.04	1.03	0.96	0.71	0.60	0.71	0.96	1.03	1.04	1.04	1.07
110	0.70	0.84	1.09	1.15	1.18	1.20	1.18	1.20	1.18	1.15	1.09	0.84	0.70	0.84	1.09	1.15	1.18	1.20	1.18
115	0.76	0.97	1.20	1.27	1.31	1.34	1.33	1.34	1.31	1.27	1.20	0.97	0.76	0.97	1.20	1.27	1.31	1.34	1.33
120	0.89	1.06	1.29	1.38	1.43	1.44	1.44	1.44	1.43	1.38	1.29	1.06	0.89	1.06	1.29	1.38	1.43	1.44	1.44
125	1.04	1.23	1.39	1.47	1.55	1.58	1.54	1.58	1.55	1.47	1.39	1.23	1.04	1.23	1.39	1.47	1.55	1.58	1.54
130	1.30	1.49	1.65	1.71	1.80	1.86	1.81	1.86	1.80	1.71	1.65	1.49	1.30	1.49	1.65	1.71	1.80	1.86	1.81
135	1.61	1.77	1.97	2.03	2.09	2.18	2.15	2.18	2.09	2.03	1.97	1.77	1.61	1.77	1.97	2.03	2.09	2.18	2.15
140	2.03	2.16	2.39	2.47	2.52	2.61	2.62	2.61	2.52	2.47	2.39	2.16	2.03	2.16	2.39	2.47	2.52	2.61	2.62
145	2.48	2.56	2.80	2.94	3.03	3.10	3.13	3.10	3.03	2.94	2.80	2.56	2.48	2.56	2.80	2.94	3.03	3.10	3.13
150	2.85	2.89	3.08	3.29	3.45	3.50	3.56	3.50	3.45	3.29	3.08	2.89	2.85	2.89	3.08	3.29	3.45	3.50	3.56
155	3.14	3.17	3.31	3.51	3.69	3.79	3.88	3.79	3.69	3.51	3.31	3.17	3.14	3.17	3.31	3.51	3.69	3.79	3.88
160	3.27	3.29	3.37	3.57	3.73	3.88	3.95	3.88	3.73	3.57	3.37	3.29	3.27	3.29	3.37	3.57	3.73	3.88	3.95
165	3.31	3.34	3.40	3.51	3.68	3.82	3.87	3.82	3.68	3.51	3.40	3.34	3.31	3.34	3.40	3.51	3.68	3.82	3.87
170	3.39	3.40	3.44	3.52	3.63	3.73	3.78	3.73	3.63	3.52	3.44	3.40	3.39	3.40	3.44	3.52	3.63	3.73	3.78
175	3.38	3.41	3.45	3.50	3.59	3.66	3.68	3.66	3.59	3.50	3.45	3.41	3.38	3.41	3.45	3.50	3.59	3.66	3.68
180	3.43	3.43	3.48	3.53	3.60	3.69	3.76	3.69	3.60	3.53	3.48	3.43	3.43	3.43	3.48	3.53	3.60	3.69	3.76

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_277V_100%

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.00V I:0.1831A P:48.423W PF:0.9547 Freq:50.01Hz Lamp Flux:5459.53x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_277V_100%_2700K	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	1803	1803	1803	1802	1803													
5	1795	1796	1796	1797	1797													
10	1772	1774	1777	1779	1781													
15	1734	1738	1744	1750	1754													
20	1681	1688	1698	1708	1717													
25	1613	1624	1639	1657	1669													
30	1532	1547	1570	1589	1604													
35	1439	1457	1485	1509	1532													
40	1333	1354	1384	1418	1443													
45	1216	1241	1274	1312	1340													
50	1089	1116	1152	1192	1222													
55	952	977	1016	1057	1090													
60	807	832	869	909	942													
65	655	678	712	750	780													
70	499	517	546	578	604													
75	343	357	378	402	422													
80	196	204	217	231	242													
85	69.0	71.8	75.7	80.4	84.5													
90	2.44	2.55	2.54	2.28	3.06													
95	0.70	0.68	0.64	0.52	0.32													
100	0.89	0.87	0.83	0.77	0.55													
105	1.04	1.04	1.03	0.96	0.71													
110	1.20	1.18	1.15	1.09	0.84													
115	1.34	1.31	1.27	1.20	0.97													
120	1.44	1.43	1.38	1.29	1.06													
125	1.58	1.55	1.47	1.39	1.23													
130	1.86	1.80	1.71	1.65	1.49													
135	2.18	2.09	2.03	1.97	1.77													
140	2.61	2.52	2.47	2.39	2.16													
145	3.10	3.03	2.94	2.80	2.56													
150	3.50	3.45	3.29	3.08	2.89													
155	3.79	3.69	3.51	3.31	3.17													
160	3.88	3.73	3.57	3.37	3.29													
165	3.82	3.68	3.51	3.40	3.34													
170	3.73	3.63	3.52	3.44	3.40													
175	3.66	3.59	3.50	3.45	3.41													
180	3.69	3.60	3.53	3.48	3.43													

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_277V_100%