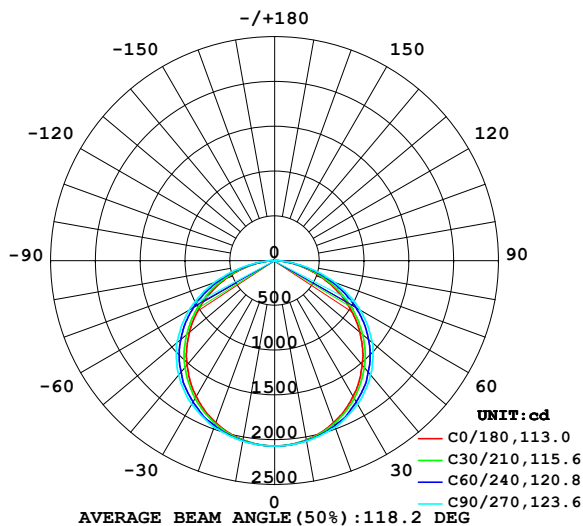


LUMINAIRE PHOTOMETRIC TEST REPORT

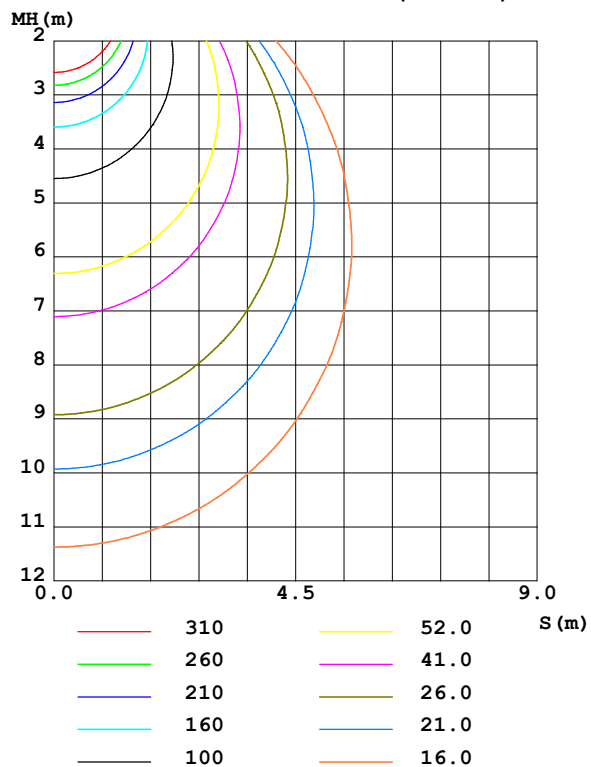
Test:U:119.99V I:0.4337A P:51.763W PF:0.9946 Freq:60.01Hz Lamp Flux:6284.72x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.41 lm/W			
MODEL		I _{max} (cd)	2070	S/MH(C0/180)	1.26
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.33
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	6284.7	η UP,DN(C0-180)	0.1,49.9
NOMINAL FLUX(lm)	6284.72	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)	120.002	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:25.7℃
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_400

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

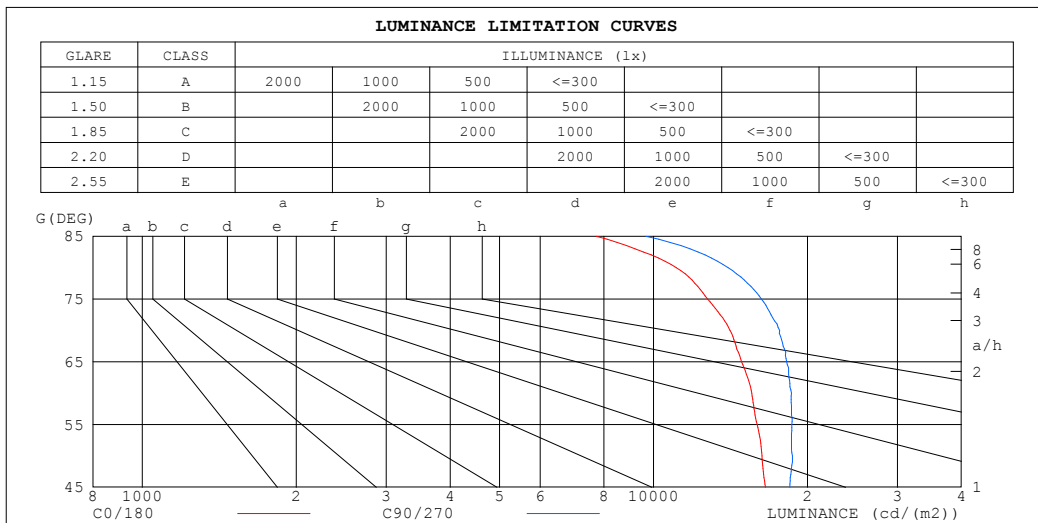
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2033	2040	2046	2040	2033	2040	2046	2040	0- 10	196.1	196.1	3.12,3.12
20	1925	1950	1980	1950	1925	1950	1980	1950	10- 20	565.5	761.7	12.1,12.1
30	1752	1806	1850	1806	1752	1806	1850	1806	20- 30	868.5	1630	25.9,25.9
40	1522	1590	1666	1590	1522	1590	1666	1590	30- 40	1067	2697	42.9,42.9
50	1244	1327	1426	1327	1244	1327	1426	1327	40- 50	1132	3829	60.9,60.9
60	923.3	1001	1104	1001	923.3	1001	1104	1001	50- 60	1048	4877	77.6,77.6
70	573.2	632.3	716.3	632.3	573.2	632.3	716.3	632.3	60- 70	816.3	5694	90.6,90.6
80	228.3	253.2	288.2	253.2	228.3	253.2	288.2	253.2	70- 80	467.8	6161	98,98
90	3.653	3.135	2.790	3.135	3.653	3.135	2.790	3.135	80- 90	111.7	6273	99.8,99.8
100	1.066	0.9107	0.4815	0.9107	1.066	0.9107	0.4815	0.9107	90-100	0.9353	6274	99.8,99.8
110	1.303	1.245	0.7288	1.245	1.303	1.245	0.7288	1.245	100-110	1.055	6275	99.8,99.8
120	1.641	1.533	0.9747	1.533	1.641	1.533	0.9747	1.533	110-120	1.281	6276	99.9,99.9
130	2.091	1.949	1.473	1.949	2.091	1.949	1.473	1.949	120-130	1.457	6278	99.9,99.9
140	2.979	2.771	2.293	2.771	2.979	2.771	2.293	2.771	130-140	1.751	6279	99.9,99.9
150	4.046	3.657	3.207	3.657	4.046	3.657	3.207	3.657	140-150	1.985	6281	99.9,99.9
160	4.335	3.822	3.599	3.822	4.335	3.822	3.599	3.822	150-160	1.770	6283	100,100
170	4.100	3.809	3.694	3.809	4.100	3.809	3.694	3.809	160-170	1.097	6284	100,100
180	4.216	3.892	3.755	3.892	4.216	3.892	3.755	3.892	170-180	0.3691	6285	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.7℃
 Operators:Alan Wang
 Test Date:2026-04-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:42.4%
 Test Distance:1.900m [K=1.0924]
 Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_400

LUMINANCE LIMITATION CURVES

Test:U:119.99V I:0.4337A P:51.763W PF:0.9946 Freq:60.01Hz Lamp Flux:6284.72x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_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	7720	9655
80	11076	13983
75	12763	16247
70	14119	17643
65	14874	18223
60	15557	18607
55	15944	18646
50	16298	18687
45	16556	18475

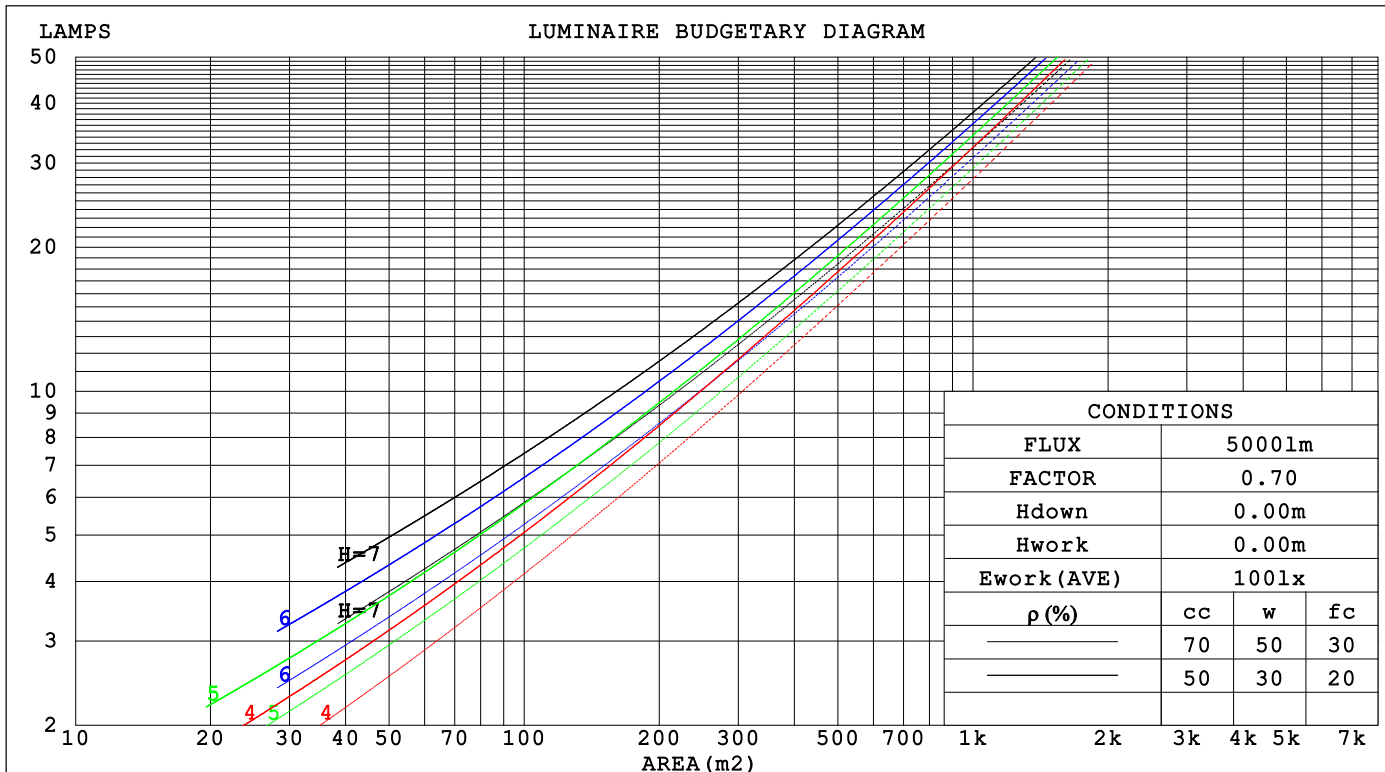
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.7°C
Operators: Alan Wang
Test Date: 2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 42.4%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.99V I:0.4337A P:51.763W PF:0.9946 Freq:60.01Hz Lamp Flux:6284.72x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_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			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	.39	.51	.44	.39	.49	.43	.39	.37
7.0	.50	.41	.35	.50	.41	.35	.48	.40	.35	.46	.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	.33	.28	.40	.33	.28	.39	.32	.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:25.7°C
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K

WEC AND CCEC

Test:U:119.99V I:0.4337A P:51.763W PF:0.9946 Freq:60.01Hz Lamp Flux:6284.72x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_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	.314	.178	.057	.307	.175	.056	.293	.168	.054	.281	.162	.052	.270	.156	.050		
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.257	.145	.046		
3.0	.274	.146	.044	.268	.144	.043	.258	.140	.042	.248	.136	.042	.239	.132	.041		
4.0	.253	.131	.039	.248	.130	.038	.238	.126	.038	.230	.123	.037	.222	.120	.037		
5.0	.233	.119	.034	.229	.117	.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	.197	.098	.028	.191	.097	.028	.185	.095	.028	.179	.093	.027		
8.0	.188	.092	.026	.184	.091	.026	.179	.089	.025	.173	.088	.025	.168	.086	.025		
9.0	.176	.085	.024	.173	.084	.024	.168	.083	.023	.163	.081	.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	.051	.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	.026	.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:25.7℃
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K

UGR(Unified Glare Rating) Table

Test:U:119.99V I:0.4337A P:51.763W PF:0.9946 Freq:60.01Hz Lamp Flux:6284.72x1 lm										
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_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	22.5	24.0	22.7	24.2	24.4	23.3	24.8	23.5	25.0	25.2
3H	23.9	25.4	24.3	25.6	25.9	25.0	26.4	25.3	26.6	26.9
4H	24.5	25.9	24.8	26.1	26.4	25.6	27.0	25.9	27.2	27.5
6H	24.9	26.2	25.2	26.5	26.7	26.1	27.3	26.4	27.6	27.9
8H	25.0	26.2	25.3	26.5	26.8	26.2	27.4	26.5	27.7	28.0
12H	25.0	26.2	25.4	26.5	26.8	26.2	27.4	26.6	27.7	28.0
4H 2H	23.2	24.5	23.5	24.8	25.1	23.8	25.2	24.1	25.4	25.7
3H	24.8	26.0	25.2	26.3	26.6	25.7	26.9	26.0	27.2	27.5
4H	25.5	26.6	25.9	26.9	27.3	26.5	27.6	26.9	27.9	28.2
6H	26.0	27.0	26.4	27.3	27.7	27.0	28.0	27.5	28.4	28.7
8H	26.2	27.1	26.6	27.4	27.8	27.2	28.1	27.6	28.5	28.9
12H	26.2	27.1	26.7	27.4	27.9	27.3	28.1	27.7	28.5	28.9
8H 4H	25.8	26.7	26.3	27.1	27.5	26.7	27.6	27.1	28.0	28.3
6H	26.5	27.2	26.9	27.6	28.1	27.4	28.1	27.8	28.6	29.0
8H	26.7	27.3	27.1	27.8	28.2	27.6	28.3	28.1	28.7	29.2
12H	26.8	27.4	27.3	27.8	28.3	27.8	28.4	28.3	28.8	29.3
12H 4H	25.9	26.7	26.3	27.1	27.5	26.7	27.5	27.1	27.9	28.3
6H	26.5	27.2	27.0	27.6	28.1	27.4	28.1	27.9	28.5	29.0
8H	26.8	27.3	27.3	27.8	28.3	27.7	28.3	28.2	28.7	29.2
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, 6285 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.4)
Area: 0.118701 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7℃
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K

UTILIZATION FACTORS TABLE

Test:U:119.99V I:0.4337A P:51.763W PF:0.9946 Freq:60.01Hz Lamp Flux:6284.72x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

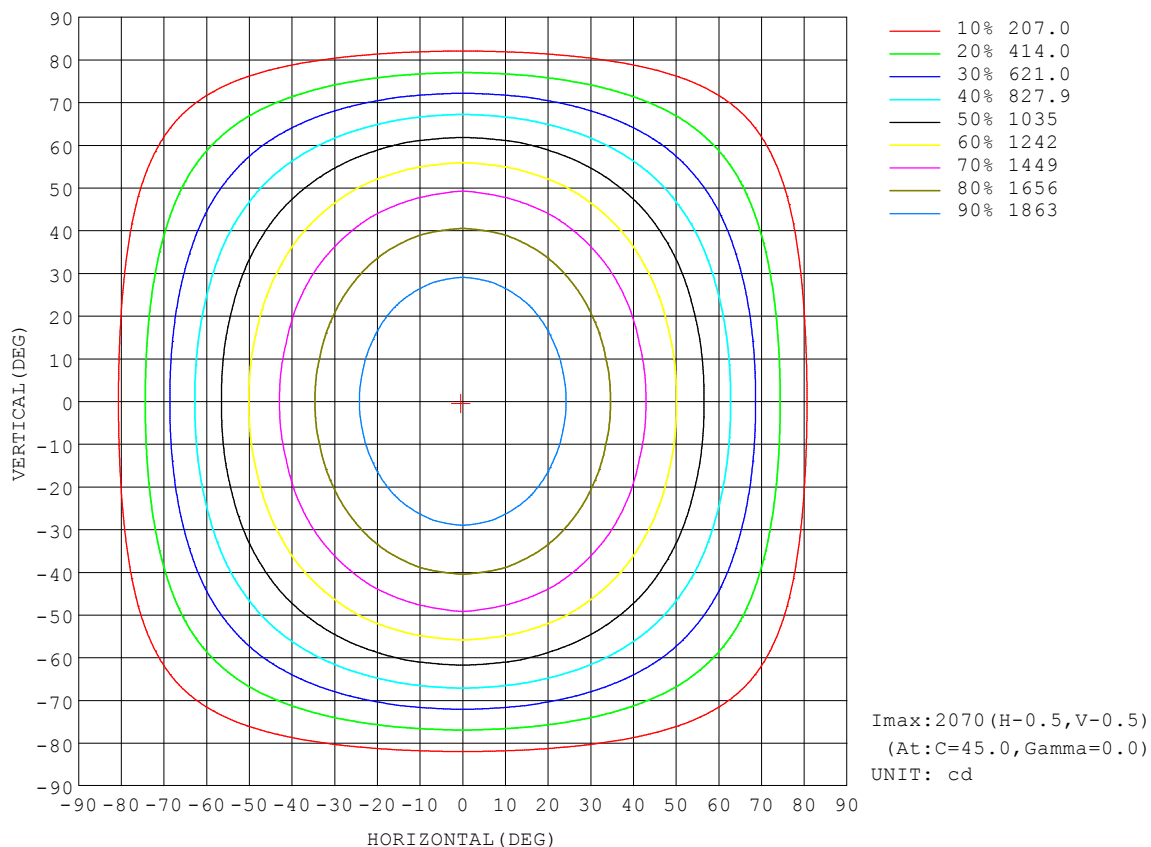
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	44	38	55	44	37	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	56	74	63	56	72	65	55	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	84	78	89	82	77	69
2.50	98	90	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	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: 25.7°C
Operators: Alan Wang
Test Date: 2026-04-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 42.4%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K

ISOCANDELA DIAGRAM

Test:U:119.99V I:0.4337A P:51.763W PF:0.9946 Freq:60.01Hz Lamp Flux:6284.72x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

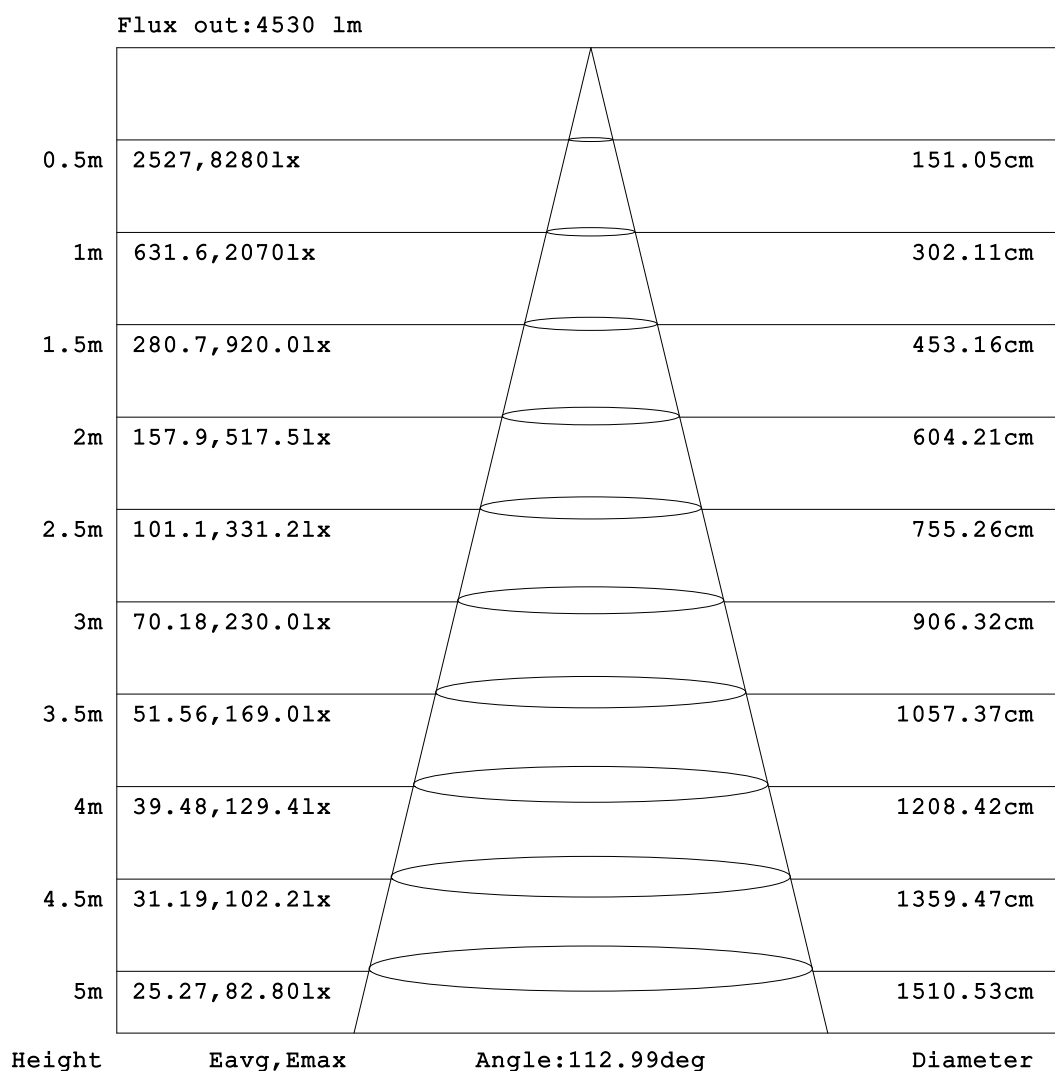


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7°C
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K

AAI Figure

Test:U:119.99V I:0.4337A P:51.763W PF:0.9946 Freq:60.01Hz Lamp Flux:6284.72x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



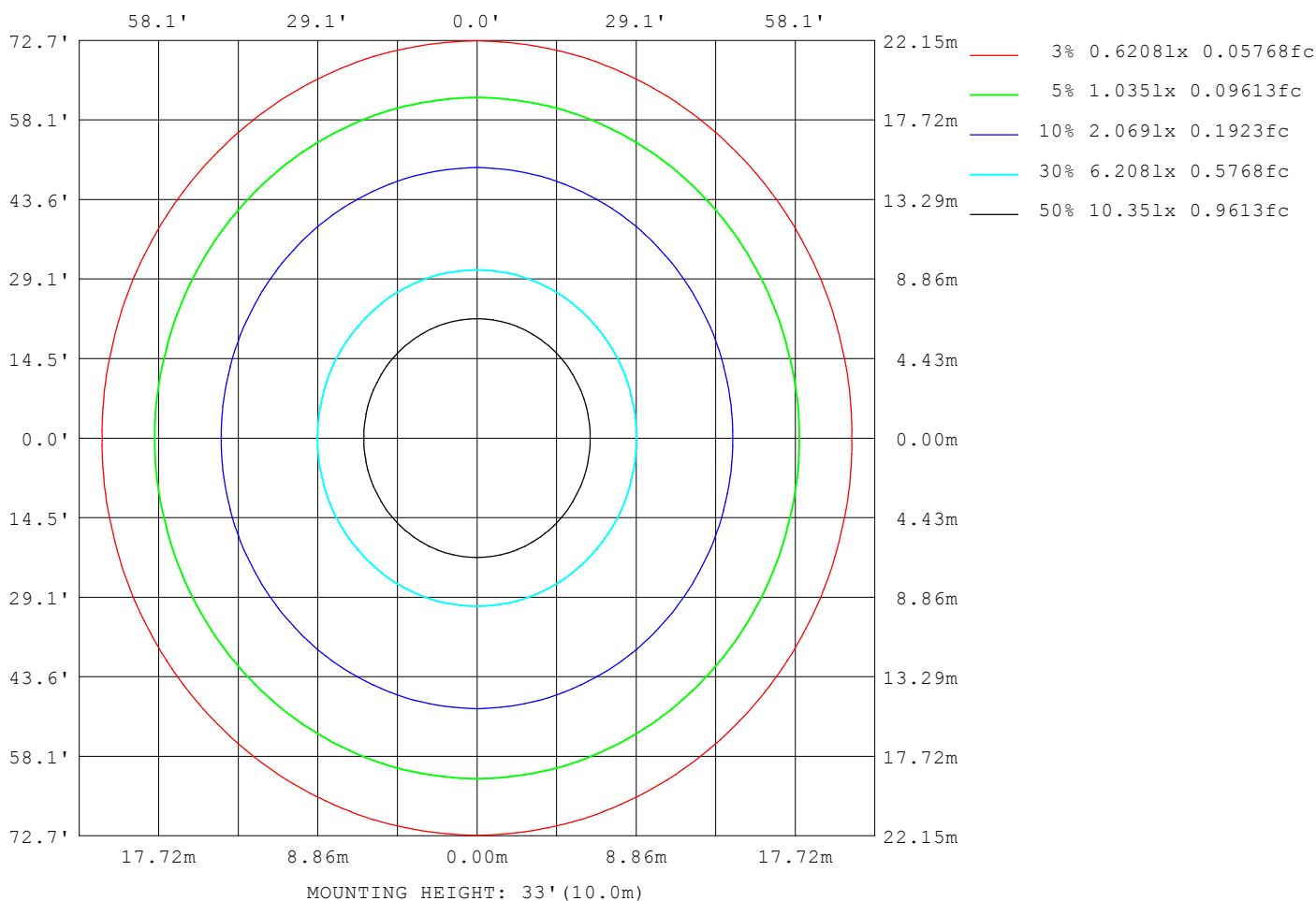
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7°C
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K

ISOLUX DIAGRAM

Test:U:119.99V I:0.4337A P:51.763W PF:0.9946 Freq:60.01Hz Lamp Flux:6284.72x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_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:25.7°C
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K

LED Avg.L Report

Test:U:119.99V I:0.4337A P:51.763W PF:0.9946 Freq:60.01Hz Lamp Flux:6284.72x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

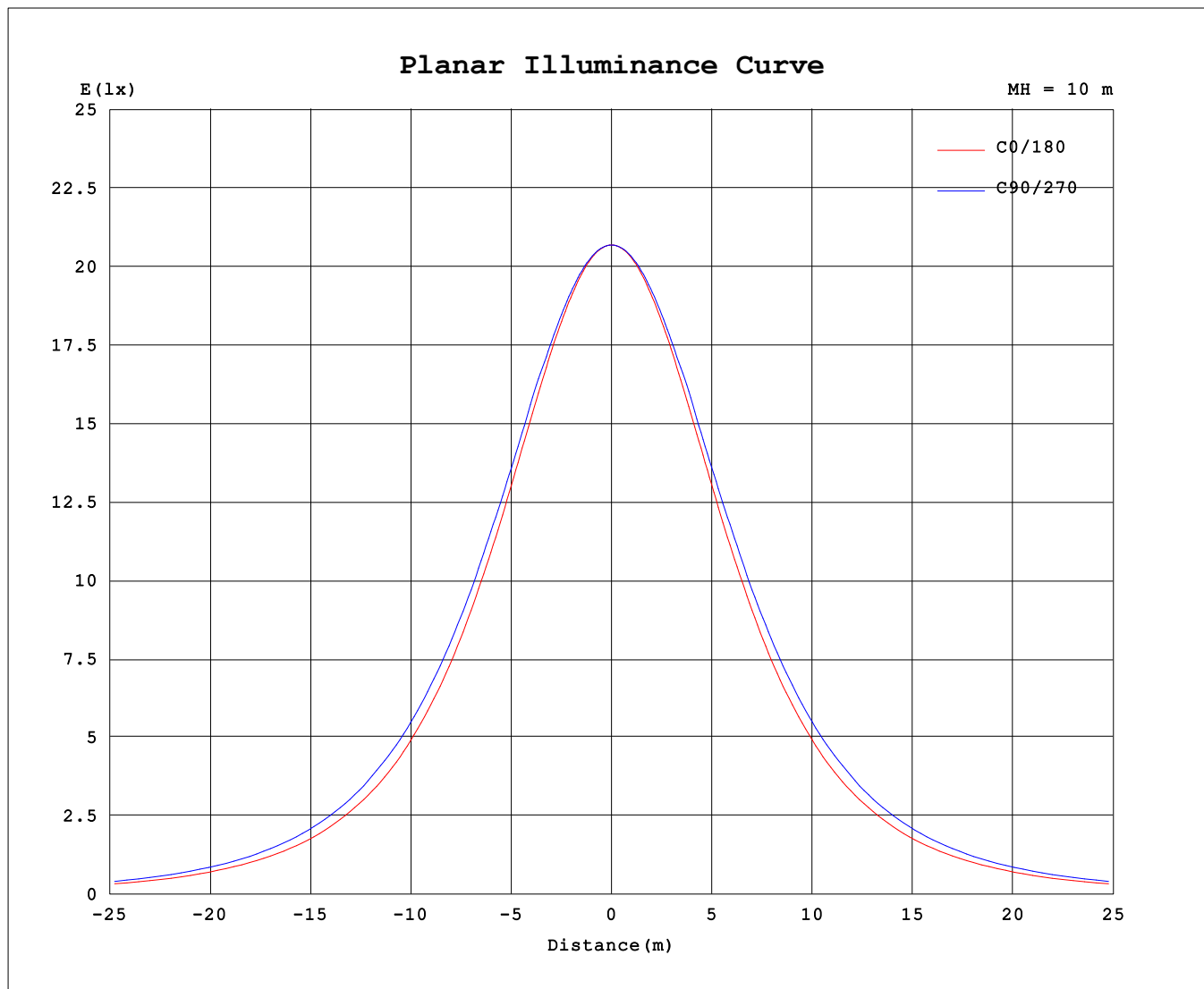
AvgL	cd/m2
L_0~180 (65) av	14874
L_0~180 (75) av	12763
L_0~180 (85) av	7720
L_90~270 (65) av	18223
L_90~270 (75) av	16247
L_90~270 (85) av	9655
L_45 (65) av	16366
L_45 (75) av	14282
L_45 (85) av	8620

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7℃
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.7°C
Operators: Alan Wang
Test Date: 2026-04-30

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 42.4%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_400

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.99V I:0.4337A P:51.763W PF:0.9946 Freq:60.01Hz Lamp Flux:6284.72x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_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	2069	2070	2070	2070	2070	2070	2069	2070	2070	2070	2070	2070	2069	2070	2070	2070	2070	2069	2069
5	2061	2061	2062	2062	2063	2063	2064	2063	2063	2062	2062	2061	2061	2061	2062	2062	2063	2063	2064
10	2033	2034	2037	2040	2043	2045	2046	2045	2043	2040	2037	2034	2033	2034	2037	2040	2043	2045	2046
15	1989	1991	1995	2002	2009	2014	2016	2014	2009	2002	1995	1991	1989	1991	1995	2002	2009	2014	2016
20	1925	1930	1938	1950	1961	1974	1980	1974	1961	1950	1938	1930	1925	1930	1938	1950	1961	1974	1980
25	1849	1852	1865	1882	1906	1913	1918	1913	1906	1882	1865	1852	1849	1852	1865	1882	1906	1913	1918
30	1752	1760	1777	1806	1823	1842	1850	1842	1823	1806	1777	1760	1752	1760	1777	1806	1823	1842	1850
35	1646	1653	1673	1702	1735	1757	1765	1757	1735	1702	1673	1653	1646	1653	1673	1702	1735	1757	1765
40	1522	1532	1558	1590	1627	1657	1666	1657	1627	1590	1558	1532	1522	1532	1558	1590	1627	1657	1666
45	1390	1399	1430	1465	1507	1538	1551	1538	1507	1465	1430	1399	1390	1399	1430	1465	1507	1538	1551
50	1244	1253	1282	1327	1369	1411	1426	1411	1369	1327	1282	1253	1244	1253	1282	1327	1369	1411	1426
55	1086	1097	1126	1170	1220	1253	1269	1253	1220	1170	1126	1097	1086	1097	1126	1170	1220	1253	1269
60	923	931	960	1001	1048	1085	1104	1085	1048	1001	960	931	923	931	960	1001	1048	1085	1104
65	746	757	784	821	865	902	914	902	865	821	784	757	746	757	784	821	865	902	914
70	573	578	599	632	669	699	716	699	669	632	599	578	573	578	599	632	669	699	716
75	392	399	415	439	466	489	499	489	466	439	415	399	392	399	415	439	466	489	499
80	228	229	238	253	269	282	288	282	269	253	238	229	228	229	238	253	269	282	288
85	79.9	81.2	84.6	89.2	94.3	98.4	99.9	98.4	94.3	89.2	84.6	81.2	79.9	81.2	84.6	89.2	94.3	98.4	99.9
90	3.65	3.15	2.91	3.13	2.69	3.03	2.79	3.03	2.69	3.13	2.91	3.15	3.65	3.15	2.91	3.13	2.69	3.03	2.79
95	0.86	0.84	0.80	0.73	0.58	0.34	0.29	0.34	0.58	0.73	0.80	0.84	0.86	0.84	0.80	0.73	0.58	0.34	0.29
100	1.07	1.04	1.00	0.91	0.82	0.56	0.48	0.56	0.82	0.91	1.00	1.04	1.07	1.04	1.00	0.91	0.82	0.56	0.48
105	1.19	1.14	1.14	1.10	0.98	0.71	0.61	0.71	0.98	1.10	1.14	1.14	1.19	1.14	1.14	1.10	0.98	0.71	0.61
110	1.30	1.33	1.30	1.24	1.13	0.85	0.73	0.85	1.13	1.24	1.30	1.33	1.30	1.33	1.30	1.24	1.13	0.85	0.73
115	1.49	1.50	1.45	1.39	1.27	1.00	0.83	1.00	1.27	1.39	1.45	1.50	1.49	1.50	1.45	1.39	1.27	1.00	0.83
120	1.64	1.64	1.60	1.53	1.40	1.13	0.97	1.13	1.40	1.53	1.60	1.64	1.64	1.64	1.60	1.53	1.40	1.13	0.97
125	1.78	1.82	1.77	1.67	1.54	1.34	1.17	1.34	1.54	1.67	1.77	1.82	1.78	1.82	1.77	1.67	1.54	1.34	1.17
130	2.09	2.16	2.06	1.95	1.85	1.61	1.47	1.61	1.85	1.95	2.06	2.16	2.09	2.16	2.06	1.95	1.85	1.61	1.47
135	2.47	2.52	2.39	2.30	2.19	1.93	1.83	1.93	2.19	2.30	2.39	2.52	2.47	2.52	2.39	2.30	2.19	1.93	1.83
140	2.98	2.99	2.87	2.77	2.63	2.36	2.29	2.36	2.63	2.77	2.87	2.99	2.98	2.99	2.87	2.77	2.63	2.36	2.29
145	3.53	3.51	3.45	3.27	3.04	2.83	2.77	2.83	3.04	3.27	3.45	3.51	3.53	3.51	3.45	3.27	3.04	2.83	2.77
150	4.05	3.97	3.86	3.66	3.38	3.25	3.21	3.25	3.38	3.66	3.86	3.97	4.05	3.97	3.86	3.66	3.38	3.25	3.21
155	4.32	4.22	4.07	3.90	3.57	3.52	3.49	3.52	3.57	3.90	4.07	4.22	4.32	4.22	4.07	3.90	3.57	3.52	3.49
160	4.34	4.25	4.06	3.82	3.72	3.63	3.60	3.63	3.72	3.82	4.06	4.25	4.34	4.25	4.06	3.82	3.72	3.63	3.60
165	4.20	4.11	3.94	3.78	3.69	3.65	3.63	3.65	3.69	3.78	3.94	4.11	4.20	4.11	3.94	3.78	3.69	3.65	3.63
170	4.10	4.06	3.94	3.81	3.74	3.70	3.69	3.70	3.74	3.81	3.94	4.06	4.10	4.06	3.94	3.81	3.74	3.70	3.69
175	4.04	4.04	3.94	3.84	3.77	3.73	3.71	3.73	3.77	3.84	3.94	4.04	4.04	4.04	3.94	3.84	3.77	3.73	3.71
180	4.22	4.11	3.98	3.89	3.83	3.78	3.76	3.78	3.83	3.89	3.98	4.11	4.22	4.11	3.98	3.89	3.83	3.78	3.76

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7℃
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_400

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.99V I:0.4337A P:51.763W PF:0.9946 Freq:60.01Hz Lamp Flux:6284.72x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_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	2070	2070	2070	2070	2070													
5	2063	2063	2062	2062	2061													
10	2045	2043	2040	2037	2034													
15	2014	2009	2002	1995	1991													
20	1974	1961	1950	1938	1930													
25	1913	1906	1882	1865	1852													
30	1842	1823	1806	1777	1760													
35	1757	1735	1702	1673	1653													
40	1657	1627	1590	1558	1532													
45	1538	1507	1465	1430	1399													
50	1411	1369	1327	1282	1253													
55	1253	1220	1170	1126	1097													
60	1085	1048	1001	960	931													
65	902	865	821	784	757													
70	699	669	632	599	578													
75	489	466	439	415	399													
80	282	269	253	238	229													
85	98.4	94.3	89.2	84.6	81.2													
90	3.03	2.69	3.13	2.91	3.15													
95	0.34	0.58	0.73	0.80	0.84													
100	0.56	0.82	0.91	1.00	1.04													
105	0.71	0.98	1.10	1.14	1.14													
110	0.85	1.13	1.24	1.30	1.33													
115	1.00	1.27	1.39	1.45	1.50													
120	1.13	1.40	1.53	1.60	1.64													
125	1.34	1.54	1.67	1.77	1.82													
130	1.61	1.85	1.95	2.06	2.16													
135	1.93	2.19	2.30	2.39	2.52													
140	2.36	2.63	2.77	2.87	2.99													
145	2.83	3.04	3.27	3.45	3.51													
150	3.25	3.38	3.66	3.86	3.97													
155	3.52	3.57	3.90	4.07	4.22													
160	3.63	3.72	3.82	4.06	4.25													
165	3.65	3.69	3.78	3.94	4.11													
170	3.70	3.74	3.81	3.94	4.06													
175	3.73	3.77	3.84	3.94	4.04													
180	3.78	3.83	3.89	3.98	4.11													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7℃
Operators:Alan Wang
Test Date:2026-04-30

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:42.4%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_400