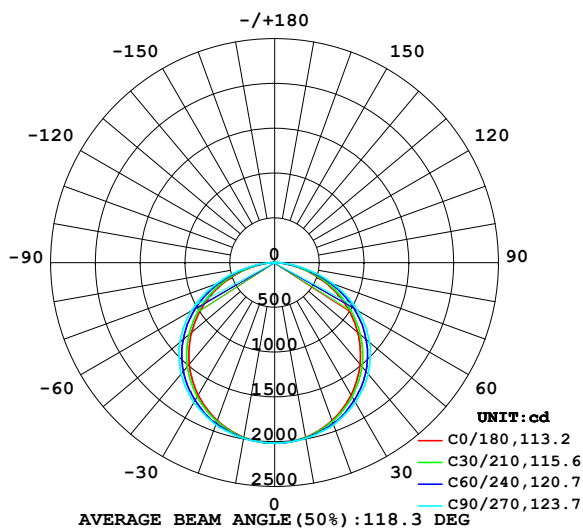


LUMINAIRE PHOTOMETRIC TEST REPORT

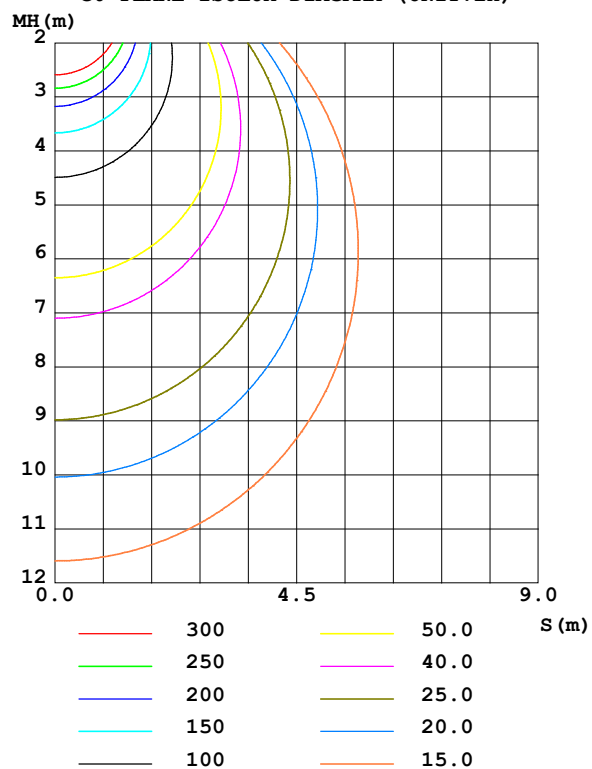
Test:U:120.02V I:0.4274A P:51.022W PF:0.9946 Freq:60.01Hz Lamp Flux:6121.39x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.98 lm/W			
MODEL		I _{max} (cd)	2016	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)	6121.4	η UP,DN(C0-180)	0.1,49.9
NOMINAL FLUX(lm)	6121.39	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%_3000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

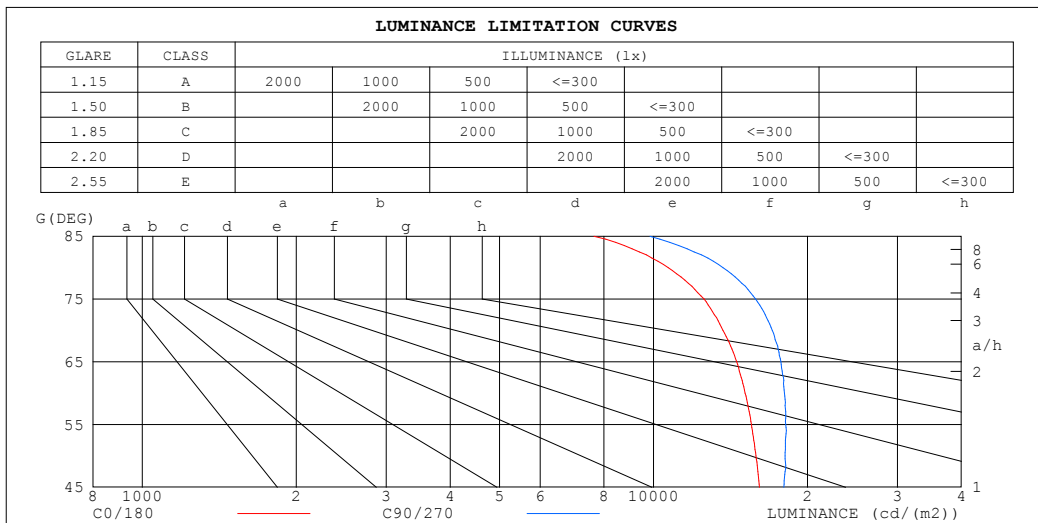
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1980	1986	1992	1986	1980	1986	1992	1986	0- 10	191.0	191.0	3.12,3.12
20	1876	1898	1927	1898	1876	1898	1927	1898	10- 20	550.7	741.7	12.1,12.1
30	1708	1757	1803	1757	1708	1757	1803	1757	20- 30	845.6	1587	25.9,25.9
40	1484	1549	1626	1549	1484	1549	1626	1549	30- 40	1038	2626	42.9,42.9
50	1210	1291	1380	1291	1210	1291	1380	1291	40- 50	1102	3728	60.9,60.9
60	896.9	974.5	1070	974.5	896.9	974.5	1070	974.5	50- 60	1020	4748	77.6,77.6
70	555.0	614.7	693.2	614.7	555.0	614.7	693.2	614.7	60- 70	794.6	5543	90.5,90.5
80	220.3	246.8	281.8	246.8	220.3	246.8	281.8	246.8	70- 80	455.8	5998	98,98
90	3.865	5.973	7.270	5.973	3.865	5.973	7.270	5.973	80- 90	111.3	6110	99.8,99.8
100	1.037	0.8697	0.4174	0.8697	1.037	0.8697	0.4174	0.8697	90-100	1.173	6111	99.8,99.8
110	1.264	1.209	0.7105	1.209	1.264	1.209	0.7105	1.209	100-110	1.019	6112	99.8,99.8
120	1.597	1.503	0.9495	1.503	1.597	1.503	0.9495	1.503	110-120	1.251	6113	99.9,99.9
130	2.035	1.873	1.400	1.873	2.035	1.873	1.400	1.873	120-130	1.413	6115	99.9,99.9
140	2.902	2.654	2.194	2.654	2.902	2.654	2.194	2.654	130-140	1.683	6116	99.9,99.9
150	3.946	3.530	3.102	3.530	3.946	3.530	3.102	3.530	140-150	1.917	6118	99.9,99.9
160	4.231	3.762	3.529	3.762	4.231	3.762	3.529	3.762	150-160	1.720	6120	100,100
170	4.004	3.765	3.658	3.765	4.004	3.765	3.658	3.765	160-170	1.080	6121	100,100
180	4.115	3.833	3.693	3.833	4.115	3.833	3.693	3.833	170-180	0.3647	6121	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%_300

LUMINANCE LIMITATION CURVES

Test:U:120.02V I:0.4274A P:51.022W PF:0.9946 Freq:60.01Hz Lamp Flux:6121.39x1 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	7651	9846
80	10688	13669
75	12555	15831
70	13671	17074
65	14537	17743
60	15112	18029
55	15538	18126
50	15864	18089
45	16111	17984

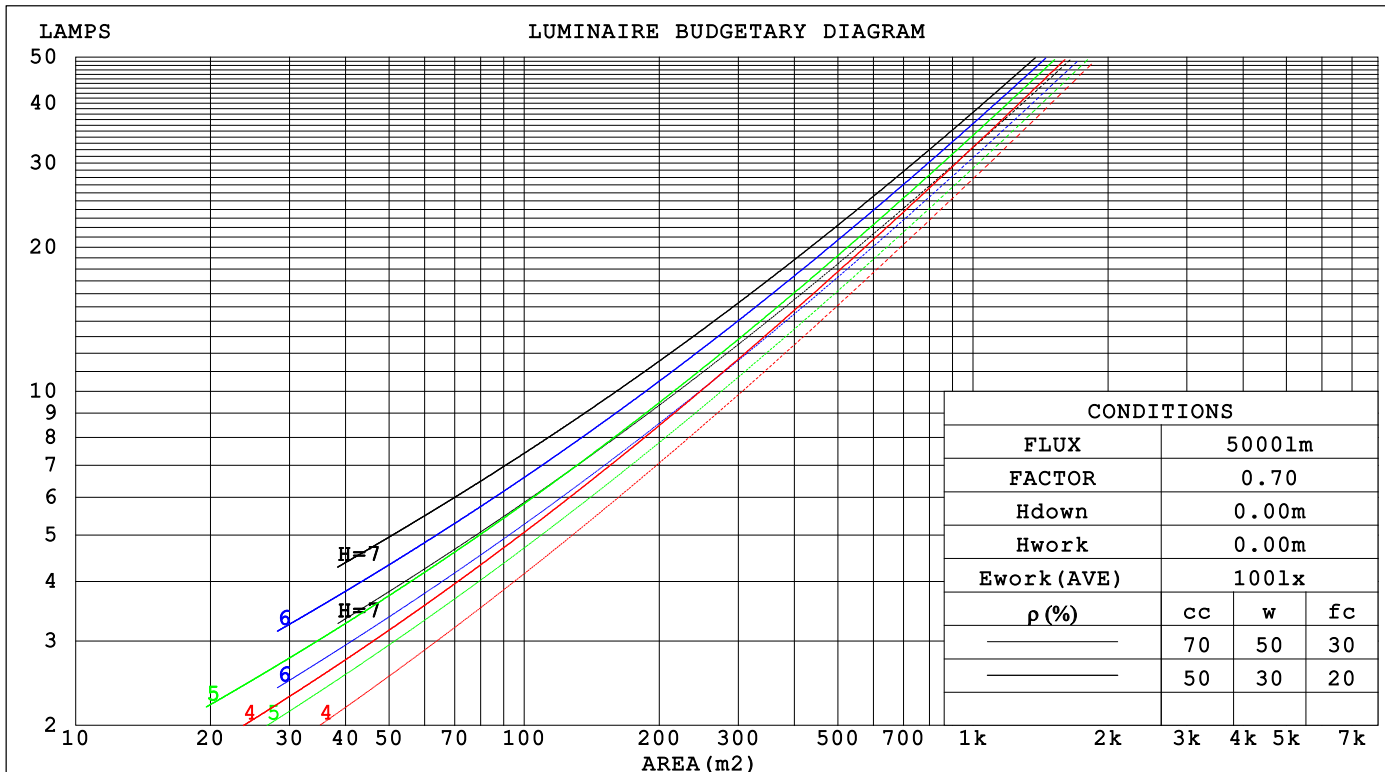
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.7°C
Operators: Alan Wang
Test Date: 2026-04-30

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%_3000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.02V I:0.4274A P:51.022W PF:0.9946 Freq:60.01Hz Lamp Flux:6121.39x1 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
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	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	.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	.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	.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%_3000K

WEC AND CCEC

Test:U:120.02V I:0.4274A P:51.022W PF:0.9946 Freq:60.01Hz Lamp Flux:6121.39x1 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	.314	.179	.057	.307	.175	.056	.294	.169	.054	.281	.162	.052	.270	.157	.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	.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	.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	.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:25.7℃
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%_3000K

UGR(Unified Glare Rating) Table

Test:U:120.02V I:0.4274A P:51.022W PF:0.9946 Freq:60.01Hz Lamp Flux:6121.39x1 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		22.4	23.9	22.6	24.1	24.3	23.2	24.7	23.4	24.9	25.1
3H		23.9	25.3	24.2	25.5	25.8	24.9	26.3	25.2	26.5	26.8
4H		24.4	25.8	24.7	26.0	26.3	25.5	26.9	25.8	27.1	27.4
6H		24.8	26.1	25.1	26.4	26.6	26.0	27.3	26.3	27.5	27.8
8H		24.9	26.1	25.3	26.4	26.7	26.1	27.3	26.4	27.6	27.9
12H		24.9	26.1	25.3	26.4	26.7	26.1	27.3	26.5	27.6	27.9
4H 2H		23.1	24.5	23.4	24.7	25.0	23.7	25.1	24.0	25.3	25.6
3H		24.7	25.9	25.1	26.2	26.5	25.6	26.8	25.9	27.1	27.4
4H		25.4	26.5	25.8	26.8	27.2	26.4	27.5	26.8	27.8	28.1
6H		25.9	26.9	26.3	27.2	27.6	27.0	27.9	27.4	28.3	28.6
8H		26.1	27.0	26.5	27.3	27.7	27.1	28.0	27.6	28.4	28.8
12H		26.1	27.0	26.6	27.4	27.8	27.2	28.1	27.7	28.4	28.9
8H 4H		25.8	26.7	26.2	27.0	27.4	26.6	27.5	27.0	27.9	28.3
6H		26.4	27.1	26.8	27.5	28.0	27.3	28.1	27.8	28.5	28.9
8H		26.6	27.3	27.1	27.7	28.1	27.6	28.2	28.0	28.6	29.1
12H		26.7	27.3	27.2	27.7	28.2	27.7	28.3	28.2	28.7	29.2
12H 4H		25.8	26.6	26.2	27.0	27.4	26.6	27.4	27.0	27.8	28.2
6H		26.4	27.1	26.9	27.5	28.0	27.3	28.0	27.8	28.4	28.9
8H		26.7	27.3	27.2	27.7	28.2	27.6	28.2	28.1	28.6	29.1
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, 6121 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.3)
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%_3000K

UTILIZATION FACTORS TABLE

Test:U:120.02V I:0.4274A P:51.022W PF:0.9946 Freq:60.01Hz Lamp Flux:6121.39x1 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:

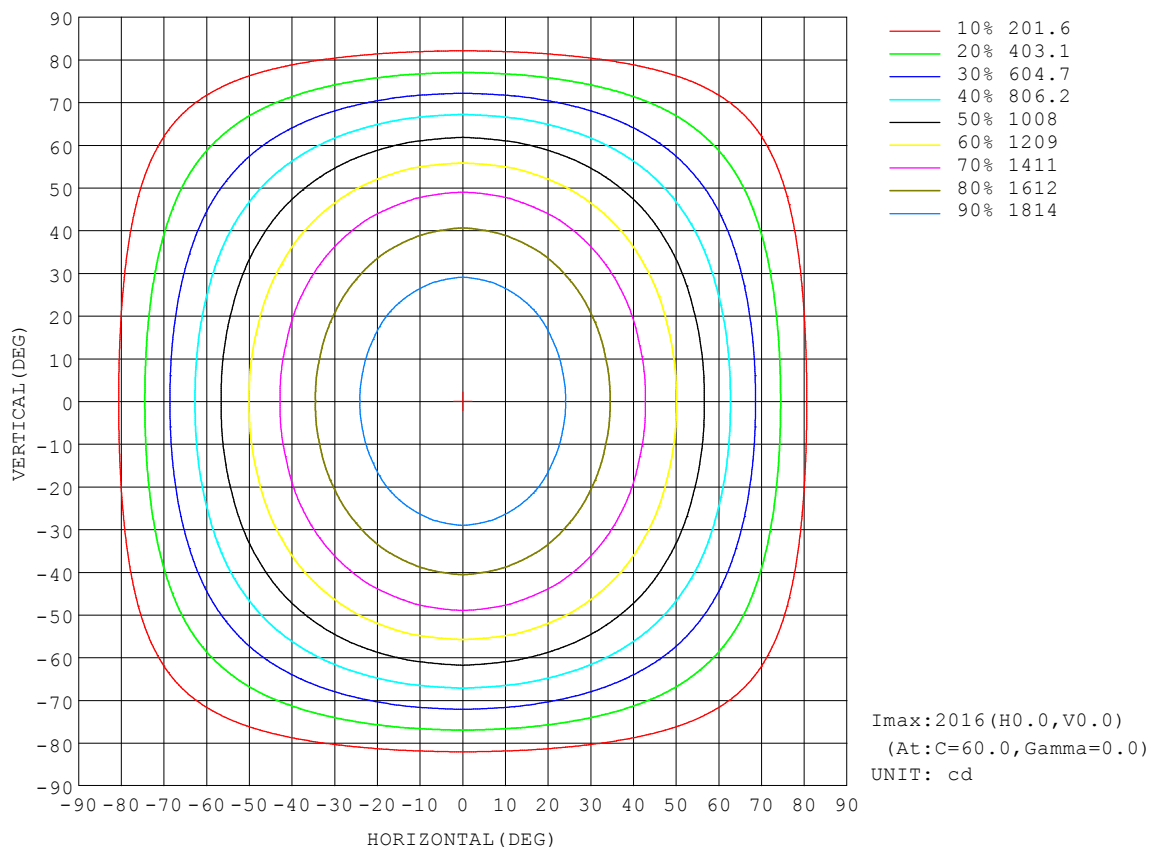
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	44	38	55	44	37	31
0.80	67	55	47	66	54	47	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	75	69	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: 25.7°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%_3000K

ISOCANDELA DIAGRAM

Test:U:120.02V I:0.4274A P:51.022W PF:0.9946 Freq:60.01Hz Lamp Flux:6121.39x1 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:

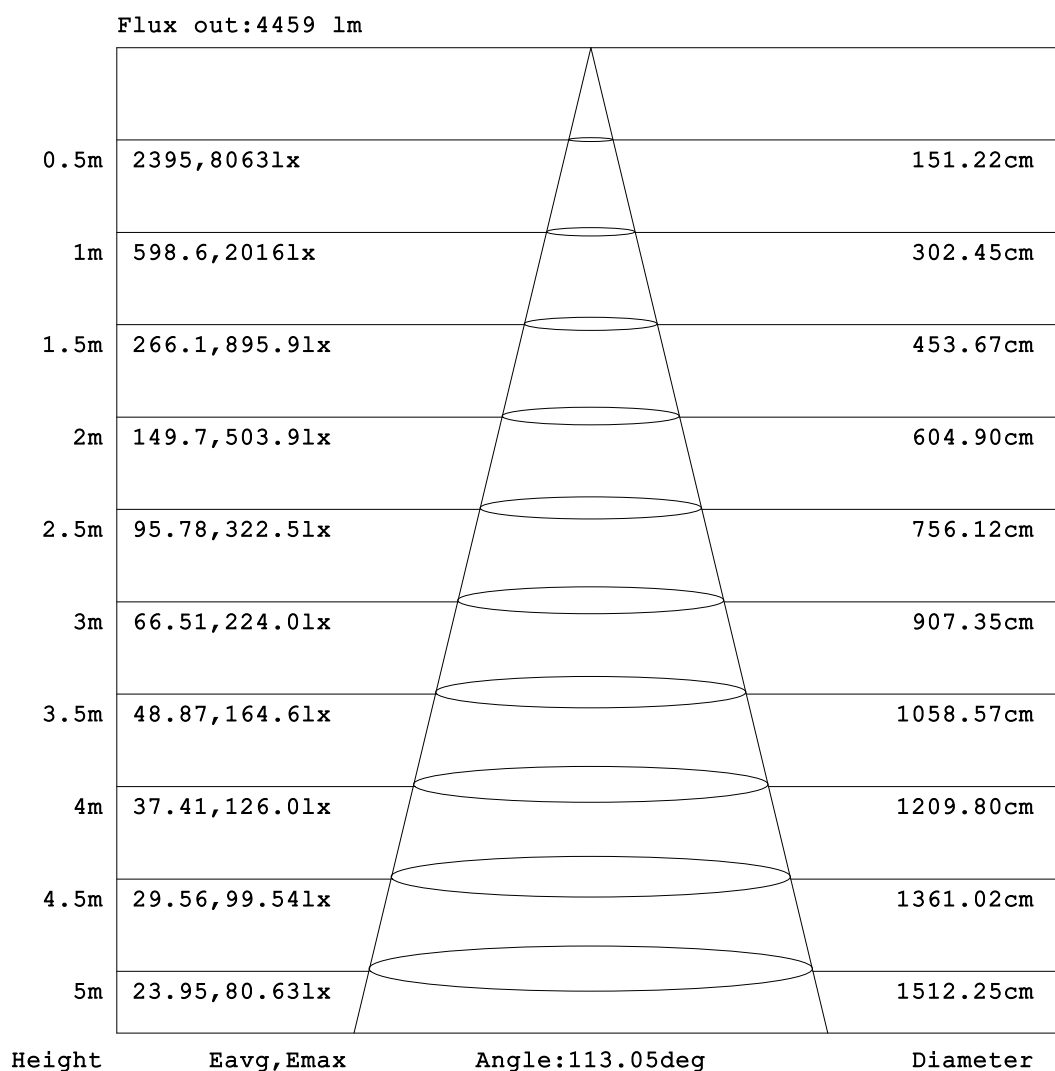


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7°C
Operators:Alan Wang
Test Date:2026-04-30

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%_3000K

AAI Figure

Test:U:120.02V I:0.4274A P:51.022W PF:0.9946 Freq:60.01Hz Lamp Flux:6121.39x1 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:



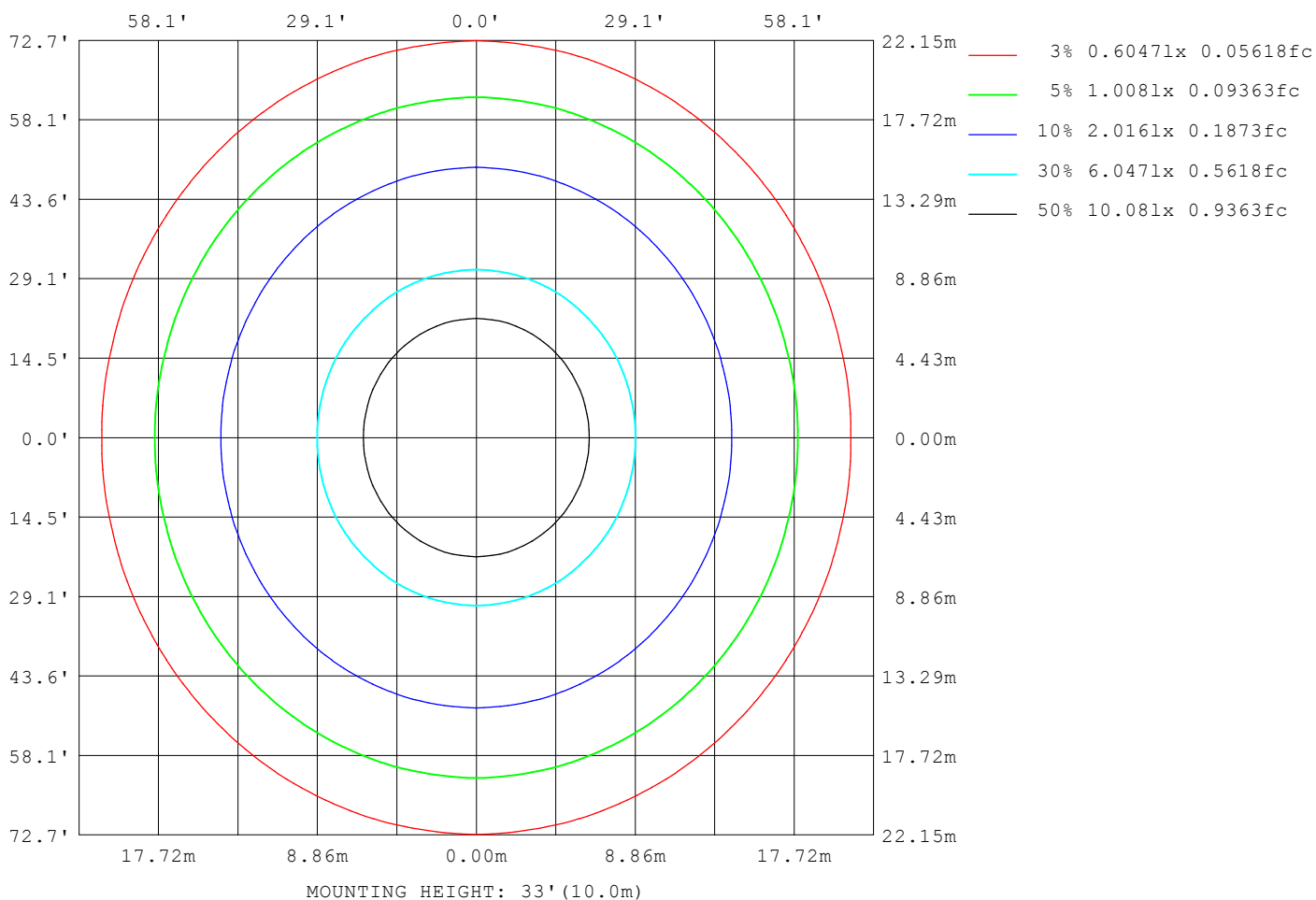
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.7°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%_3000K

ISOLUX DIAGRAM

Test:U:120.02V I:0.4274A P:51.022W PF:0.9946 Freq:60.01Hz Lamp Flux:6121.39x1 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:25.7°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%_3000K

LED Avg.L Report

Test:U:120.02V I:0.4274A P:51.022W PF:0.9946 Freq:60.01Hz Lamp Flux:6121.39x1 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:

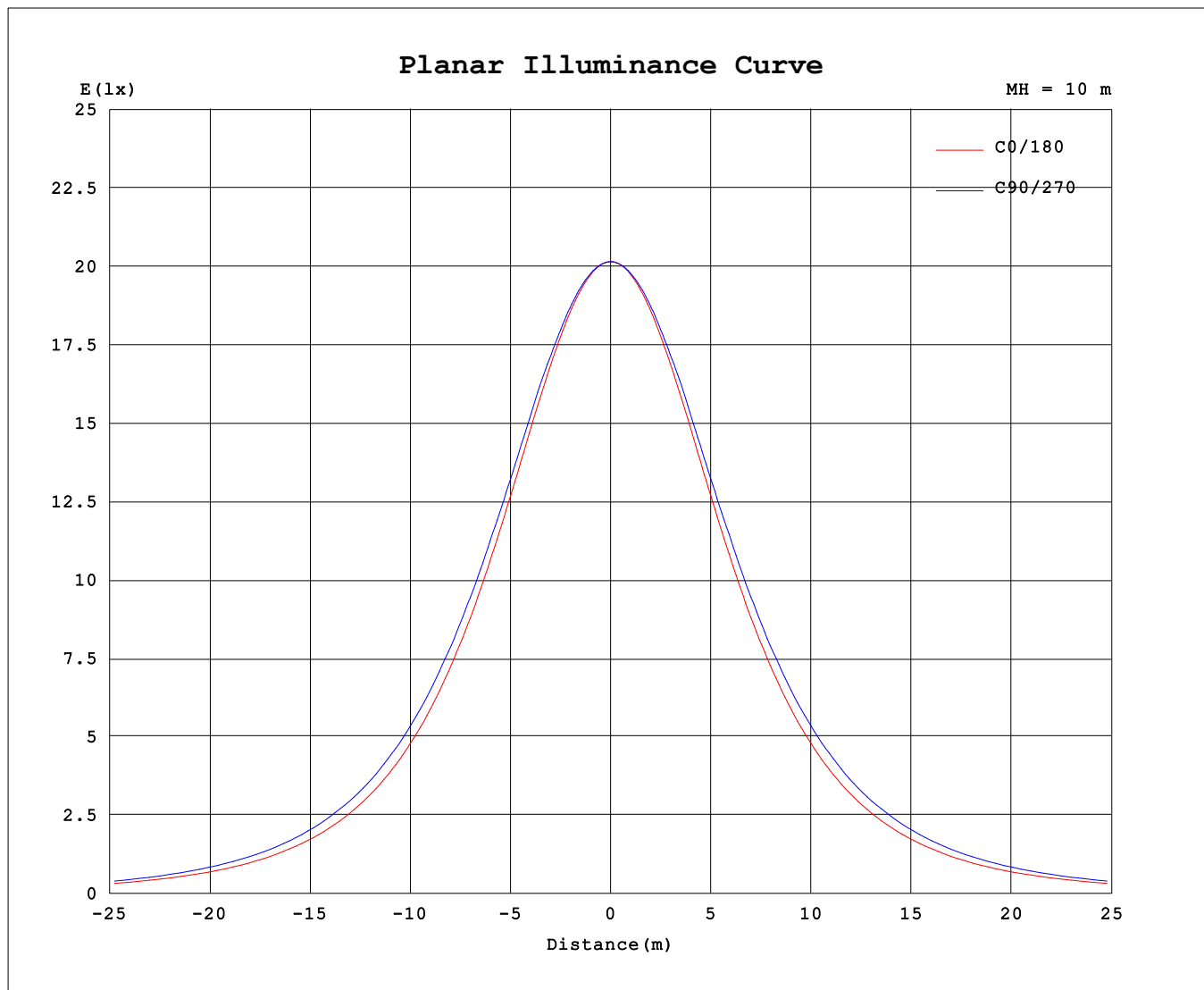
AvgL	cd/m2
L_0~180 (65) av	14537
L_0~180 (75) av	12555
L_0~180 (85) av	7651
L_90~270 (65) av	17743
L_90~270 (75) av	15831
L_90~270 (85) av	9846
L_45 (65) av	15940
L_45 (75) av	13929
L_45 (85) av	8605

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%_3000K

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%_300

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.02V I:0.4274A P:51.022W PF:0.9946 Freq:60.01Hz Lamp Flux:6121.39x1 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	2016	2015	2016	2015	2016	2015	2015	2015	2016	2015	2016	2015	2016	2015	2016	2015	2016	2015	2015
5	2007	2007	2007	2008	2009	2009	2010	2009	2009	2008	2007	2007	2007	2007	2007	2008	2009	2009	2010
10	1980	1981	1983	1986	1990	1992	1992	1992	1990	1986	1983	1981	1980	1981	1983	1986	1990	1992	1992
15	1936	1938	1943	1950	1957	1961	1963	1961	1957	1950	1943	1938	1936	1938	1943	1950	1957	1961	1963
20	1876	1879	1887	1898	1911	1925	1927	1925	1911	1898	1887	1879	1876	1879	1887	1898	1911	1925	1927
25	1799	1803	1815	1833	1853	1863	1868	1863	1853	1833	1815	1803	1799	1803	1815	1833	1853	1863	1868
30	1708	1713	1729	1757	1776	1794	1803	1794	1776	1757	1729	1713	1708	1713	1729	1757	1776	1794	1803
35	1601	1609	1629	1658	1689	1710	1721	1710	1689	1658	1629	1609	1601	1609	1629	1658	1689	1710	1721
40	1484	1492	1517	1549	1586	1612	1626	1612	1586	1549	1517	1492	1484	1492	1517	1549	1586	1612	1626
45	1352	1362	1390	1426	1468	1498	1509	1498	1468	1426	1390	1362	1352	1362	1390	1426	1468	1498	1509
50	1210	1220	1248	1291	1333	1372	1380	1372	1333	1291	1248	1220	1210	1220	1248	1291	1333	1372	1380
55	1058	1068	1096	1138	1186	1222	1234	1222	1186	1138	1096	1068	1058	1068	1096	1138	1186	1222	1234
60	897	906	935	975	1020	1058	1070	1058	1020	975	935	906	897	906	935	975	1020	1058	1070
65	729	738	763	800	842	876	890	876	842	800	763	738	729	738	763	800	842	876	890
70	555	563	584	615	652	681	693	681	652	615	584	563	555	563	584	615	652	681	693
75	386	390	404	428	454	477	486	477	454	428	404	390	386	390	404	428	454	477	486
80	220	224	233	247	262	276	282	276	262	247	233	224	220	224	233	247	262	276	282
85	79.2	81.1	84.0	89.0	93.2	98.9	102	98.9	93.2	89.0	84.0	81.1	79.2	81.1	84.0	89.0	93.2	98.9	102
90	3.87	5.34	5.24	5.97	4.22	5.75	7.27	5.75	4.22	5.97	5.24	5.34	3.87	5.34	5.24	5.97	4.22	5.75	7.27
95	0.84	0.81	0.77	0.71	0.56	0.32	0.27	0.32	0.56	0.71	0.77	0.81	0.84	0.81	0.77	0.71	0.56	0.32	0.27
100	1.04	0.98	0.93	0.87	0.77	0.51	0.42	0.51	0.77	0.87	0.93	0.98	1.04	0.98	0.93	0.87	0.77	0.51	0.42
105	1.16	1.11	1.10	1.07	0.96	0.69	0.59	0.69	0.96	1.07	1.10	1.11	1.16	1.11	1.10	1.07	0.96	0.69	0.59
110	1.26	1.29	1.26	1.21	1.10	0.82	0.71	0.82	1.10	1.21	1.26	1.29	1.26	1.29	1.26	1.21	1.10	0.82	0.71
115	1.45	1.46	1.41	1.36	1.24	0.98	0.82	0.98	1.24	1.36	1.41	1.46	1.45	1.46	1.41	1.36	1.24	0.98	0.82
120	1.60	1.61	1.57	1.50	1.37	1.11	0.95	1.11	1.37	1.50	1.57	1.61	1.60	1.61	1.57	1.50	1.37	1.11	0.95
125	1.73	1.77	1.72	1.61	1.50	1.31	1.13	1.31	1.50	1.61	1.72	1.77	1.73	1.77	1.72	1.61	1.50	1.31	1.13
130	2.04	2.07	1.98	1.87	1.79	1.55	1.40	1.55	1.79	1.87	1.98	2.07	2.04	2.07	1.98	1.87	1.79	1.55	1.40
135	2.41	2.42	2.29	2.21	2.11	1.85	1.75	1.85	2.11	2.21	2.29	2.42	2.41	2.42	2.29	2.21	2.11	1.85	1.75
140	2.90	2.87	2.75	2.65	2.53	2.27	2.19	2.27	2.53	2.65	2.75	2.87	2.90	2.87	2.75	2.65	2.53	2.27	2.19
145	3.44	3.37	3.34	3.14	2.93	2.74	2.68	2.74	2.93	3.14	3.34	3.37	3.44	3.37	3.34	3.14	2.93	2.74	2.68
150	3.95	3.83	3.74	3.53	3.28	3.13	3.10	3.13	3.28	3.53	3.74	3.83	3.95	3.83	3.74	3.53	3.28	3.13	3.10
155	4.21	4.09	3.95	3.76	3.48	3.43	3.40	3.43	3.48	3.76	3.95	4.09	4.21	4.09	3.95	3.76	3.48	3.43	3.40
160	4.23	4.15	3.96	3.76	3.64	3.55	3.53	3.55	3.64	3.76	3.96	4.15	4.23	4.15	3.96	3.76	3.64	3.55	3.53
165	4.10	4.06	3.89	3.73	3.64	3.63	3.62	3.63	3.64	3.73	3.89	4.06	4.10	4.06	3.89	3.73	3.64	3.63	3.62
170	4.00	4.02	3.89	3.77	3.68	3.67	3.66	3.67	3.68	3.77	3.89	4.02	4.00	4.02	3.89	3.77	3.68	3.67	3.66
175	3.94	4.00	3.90	3.80	3.72	3.70	3.68	3.70	3.72	3.80	3.90	4.00	3.94	4.00	3.90	3.80	3.72	3.70	3.68
180	4.11	4.05	3.92	3.83	3.76	3.71	3.69	3.71	3.76	3.83	3.92	4.05	4.11	4.05	3.92	3.83	3.76	3.71	3.69

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%_300

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.02V I:0.4274A P:51.022W PF:0.9946 Freq:60.01Hz Lamp Flux:6121.39x1 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	2015	2016	2015	2016	2015													
5	2009	2009	2008	2007	2007													
10	1992	1990	1986	1983	1981													
15	1961	1957	1950	1943	1938													
20	1925	1911	1898	1887	1879													
25	1863	1853	1833	1815	1803													
30	1794	1776	1757	1729	1713													
35	1710	1689	1658	1629	1609													
40	1612	1586	1549	1517	1492													
45	1498	1468	1426	1390	1362													
50	1372	1333	1291	1248	1220													
55	1222	1186	1138	1096	1068													
60	1058	1020	975	935	906													
65	876	842	800	763	738													
70	681	652	615	584	563													
75	477	454	428	404	390													
80	276	262	247	233	224													
85	98.9	93.2	89.0	84.0	81.1													
90	5.75	4.22	5.97	5.24	5.34													
95	0.32	0.56	0.71	0.77	0.81													
100	0.51	0.77	0.87	0.93	0.98													
105	0.69	0.96	1.07	1.10	1.11													
110	0.82	1.10	1.21	1.26	1.29													
115	0.98	1.24	1.36	1.41	1.46													
120	1.11	1.37	1.50	1.57	1.61													
125	1.31	1.50	1.61	1.72	1.77													
130	1.55	1.79	1.87	1.98	2.07													
135	1.85	2.11	2.21	2.29	2.42													
140	2.27	2.53	2.65	2.75	2.87													
145	2.74	2.93	3.14	3.34	3.37													
150	3.13	3.28	3.53	3.74	3.83													
155	3.43	3.48	3.76	3.95	4.09													
160	3.55	3.64	3.76	3.96	4.15													
165	3.63	3.64	3.73	3.89	4.06													
170	3.67	3.68	3.77	3.89	4.02													
175	3.70	3.72	3.80	3.90	4.00													
180	3.71	3.76	3.83	3.92	4.05													

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%_300