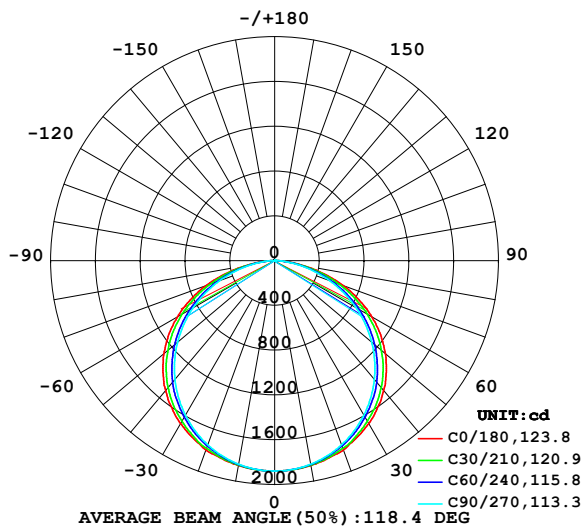


LUMINAIRE PHOTOMETRIC TEST REPORT

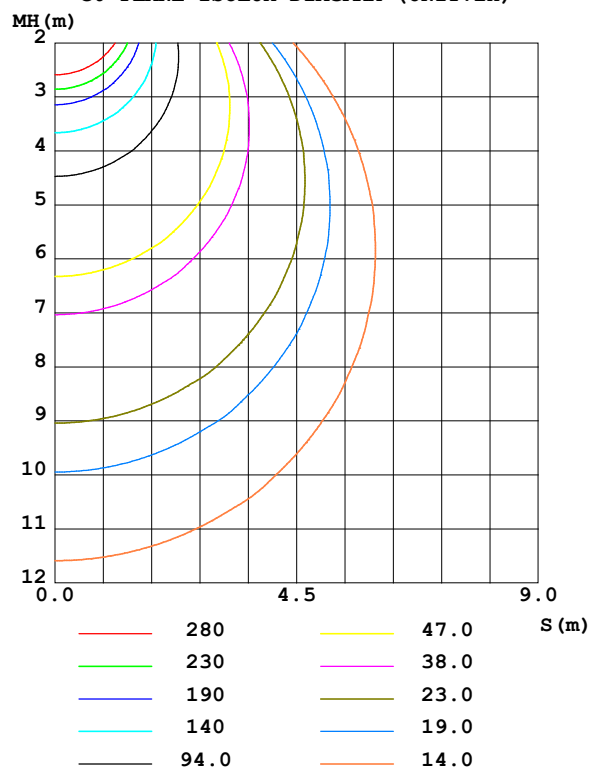
Test:U:120.03V I:0.4095A P:48.956W PF:0.9960 Freq:60.01Hz Lamp Flux:5720.92x1 lm		
NAME: VLTG-4S-4-WH-VL3-VT4-DW-UNV-D01-T_100%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 116.86 lm/W
MODEL		I _{max} (cd)	1880	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)	5720.9	η UP,DN(C0-180)	0.1,49.9	
NOMINAL FLUX(lm)	5720.92	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℃
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%_400

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

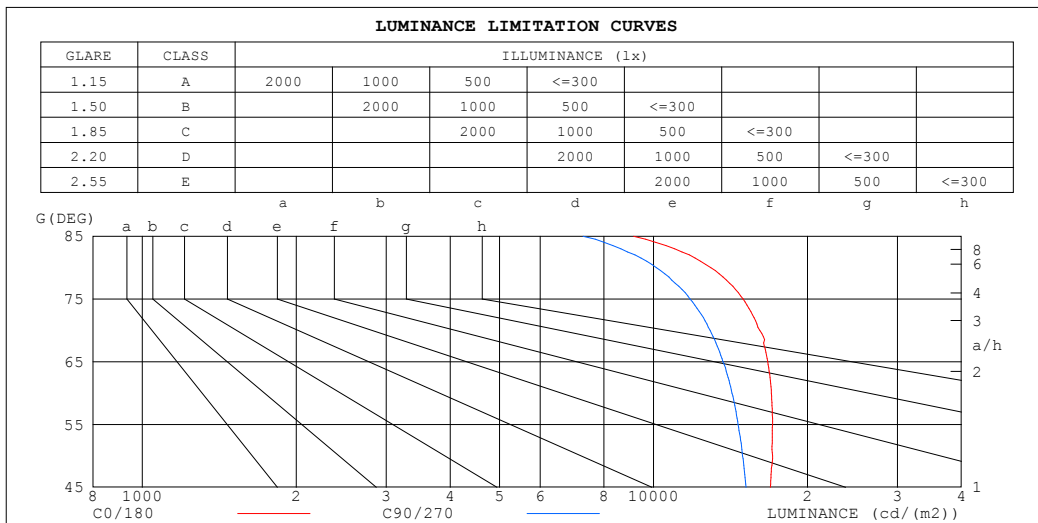
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1858	1852	1847	1852	1858	1852	1847	1852	0- 10	178.1	178.1	3.11,3.11
20	1799	1771	1751	1771	1799	1771	1751	1771	10- 20	513.7	691.9	12.1,12.1
30	1681	1638	1595	1638	1681	1638	1595	1638	20- 30	789.2	1481	25.9,25.9
40	1515	1448	1386	1448	1515	1448	1386	1448	30- 40	969.9	2451	42.8,42.8
50	1294	1206	1131	1206	1294	1206	1131	1206	40- 50	1030	3481	60.8,60.8
60	1001	911.4	838.6	911.4	1001	911.4	838.6	911.4	50- 60	954.0	4435	77.5,77.5
70	650.4	576.1	520.0	576.1	650.4	576.1	520.0	576.1	60- 70	743.7	5179	90.5,90.5
80	264.8	232.4	207.3	232.4	264.8	232.4	207.3	232.4	70- 80	427.4	5606	98,98
90	1.976	2.578	3.835	2.578	1.976	2.578	3.835	2.578	80- 90	103.9	5710	99.8,99.8
100	0.4950	0.8844	0.9999	0.8844	0.4950	0.8844	0.9999	0.8844	90-100	0.9156	5711	99.8,99.8
110	0.7273	1.202	1.236	1.202	0.7273	1.202	1.236	1.202	100-110	1.032	5712	99.8,99.8
120	0.9216	1.437	1.503	1.437	0.9216	1.437	1.503	1.437	110-120	1.225	5713	99.9,99.9
130	1.370	1.805	1.944	1.805	1.370	1.805	1.944	1.805	120-130	1.359	5714	99.9,99.9
140	2.140	2.601	2.814	2.601	2.140	2.601	2.814	2.601	130-140	1.641	5716	99.9,99.9
150	2.998	3.459	3.815	3.459	2.998	3.459	3.815	3.459	140-150	1.877	5718	99.9,99.9
160	3.385	3.684	4.169	3.684	3.385	3.684	4.169	3.684	150-160	1.676	5720	100,100
170	3.514	3.659	3.967	3.659	3.514	3.659	3.967	3.659	160-170	1.057	5721	100,100
180	3.563	3.711	3.991	3.711	3.563	3.711	3.991	3.711	170-180	0.3533	5721	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%_400

LUMINANCE LIMITATION CURVES

Test:U:120.03V I:0.4095A P:48.956W PF:0.9960 Freq:60.01Hz Lamp Flux:5720.92x1 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	9138	7281
80	12946	10135
75	14962	11782
70	16141	12904
65	16720	13682
60	17001	14236
55	17089	14636
50	17089	14938
45	16929	15173

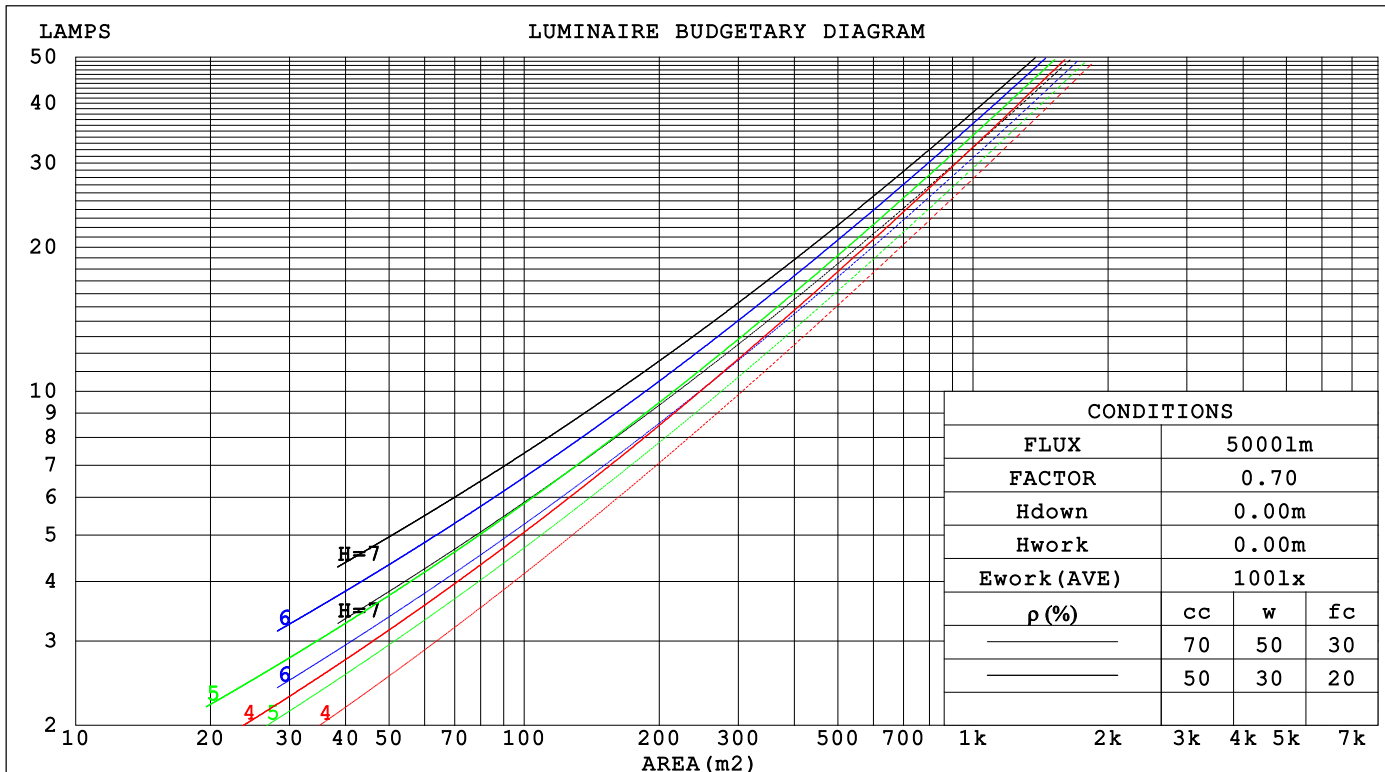
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 25.2°C
Operators: Alan Wang
Test Date: 2026-02-11

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%_4000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.03V I:0.4095A P:48.956W PF:0.9960 Freq:60.01Hz Lamp Flux:5720.92x1 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	.57
4.0	.69	.60	.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%_4000K

WEC AND CCEC

Test:U:120.03V I:0.4095A P:48.956W PF:0.9960 Freq:60.01Hz Lamp Flux:5720.92x1 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	.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%_400

UGR(Unified Glare Rating) Table

Test:U:120.03V I:0.4095A P:48.956W PF:0.9960 Freq:60.01Hz Lamp Flux:5720.92x1 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	23.0	24.5	23.2	24.7	24.9	22.2	23.7	22.4	23.9	24.1
3H	24.7	26.1	25.0	26.3	26.6	23.6	25.1	24.0	25.3	25.6
4H	25.3	26.7	25.6	26.9	27.2	24.2	25.6	24.5	25.8	26.1
6H	25.8	27.1	26.1	27.3	27.6	24.6	25.9	24.9	26.2	26.4
8H	25.9	27.1	26.3	27.4	27.7	24.7	25.9	25.1	26.2	26.5
12H	26.0	27.1	26.3	27.4	27.8	24.7	25.9	25.1	26.2	26.5
4H 2H	23.5	24.9	23.8	25.1	25.4	22.9	24.3	23.2	24.5	24.8
3H	25.4	26.6	25.7	26.9	27.2	24.5	25.7	24.9	26.0	26.3
4H	26.2	27.3	26.6	27.6	27.9	25.2	26.3	25.6	26.6	27.0
6H	26.8	27.7	27.2	28.1	28.5	25.7	26.7	26.1	27.0	27.4
8H	26.9	27.8	27.4	28.2	28.6	25.9	26.8	26.3	27.1	27.5
12H	27.0	27.9	27.5	28.3	28.7	25.9	26.8	26.4	27.2	27.6
8H 4H	26.4	27.3	26.8	27.7	28.1	25.6	26.5	26.0	26.8	27.2
6H	27.1	27.9	27.6	28.3	28.7	26.2	26.9	26.6	27.3	27.8
8H	27.4	28.0	27.8	28.5	28.9	26.4	27.1	26.9	27.5	27.9
12H	27.5	28.1	28.0	28.6	29.0	26.5	27.1	27.0	27.6	28.0
12H 4H	26.4	27.2	26.8	27.6	28.0	25.6	26.4	26.0	26.8	27.2
6H	27.2	27.8	27.6	28.2	28.7	26.3	26.9	26.7	27.3	27.8
8H	27.4	28.0	27.9	28.5	28.9	26.5	27.1	27.0	27.5	28.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 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, 5721 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 6.1)
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%_4000K

UTILIZATION FACTORS TABLE

Test:U:120.03V I:0.4095A P:48.956W PF:0.9960 Freq:60.01Hz Lamp Flux:5720.92x1 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:

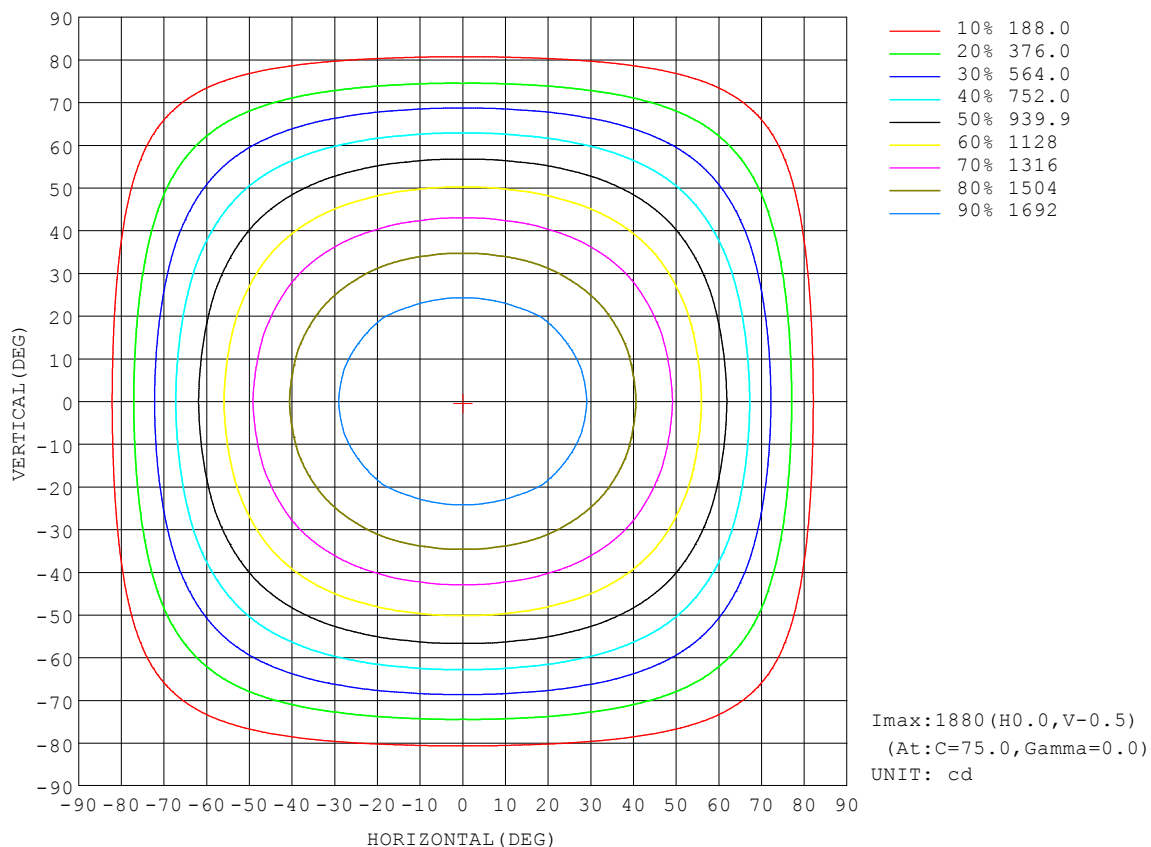
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	44	38	55	44	37	31
0.80	67	55	47	66	54	47	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%_4000K

ISOCANDELA DIAGRAM

Test:U:120.03V I:0.4095A P:48.956W PF:0.9960 Freq:60.01Hz Lamp Flux:5720.92x1 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:

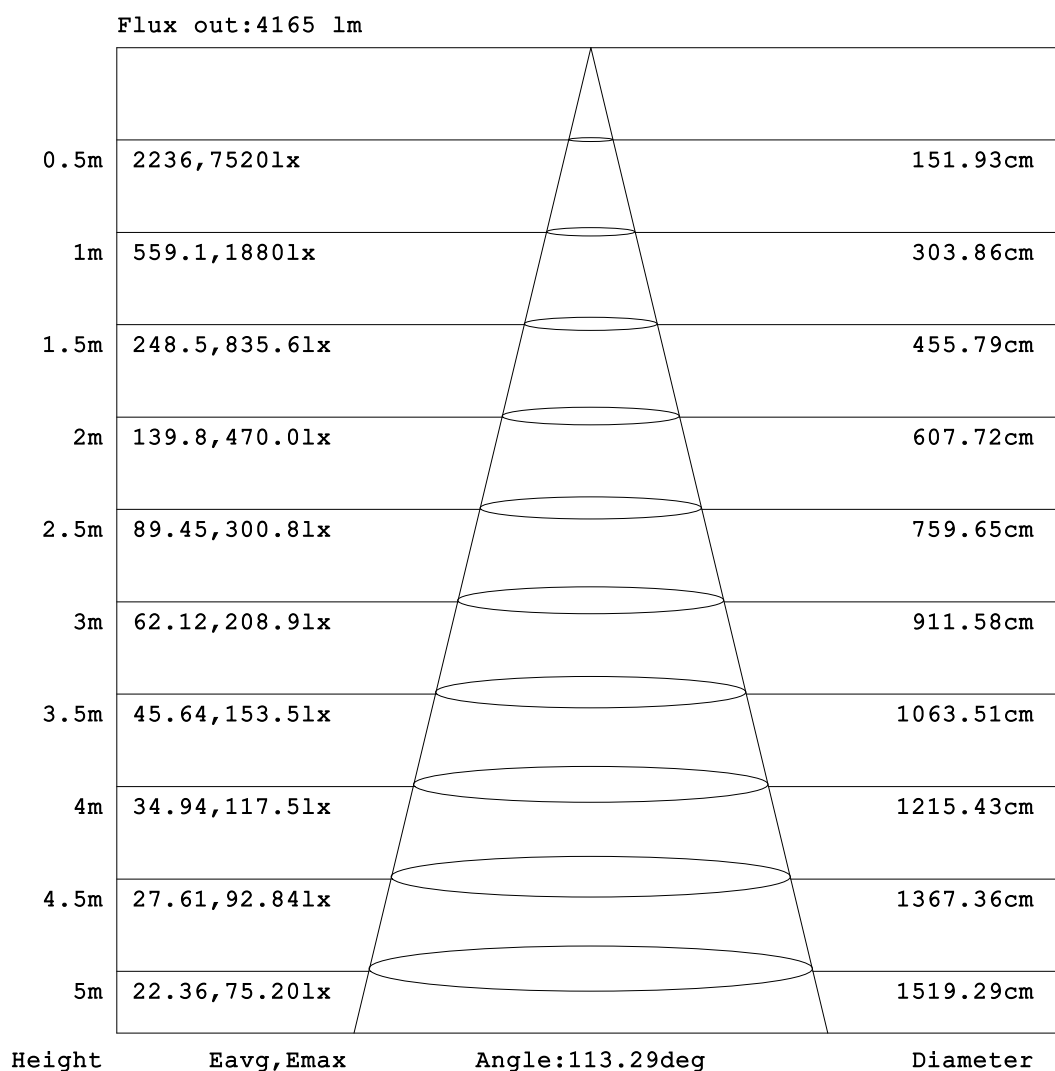


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2°C
Operators:Alan Wang
Test Date:2026-02-11

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%_400

AAI Figure

Test:U:120.03V I:0.4095A P:48.956W PF:0.9960 Freq:60.01Hz Lamp Flux:5720.92x1 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:



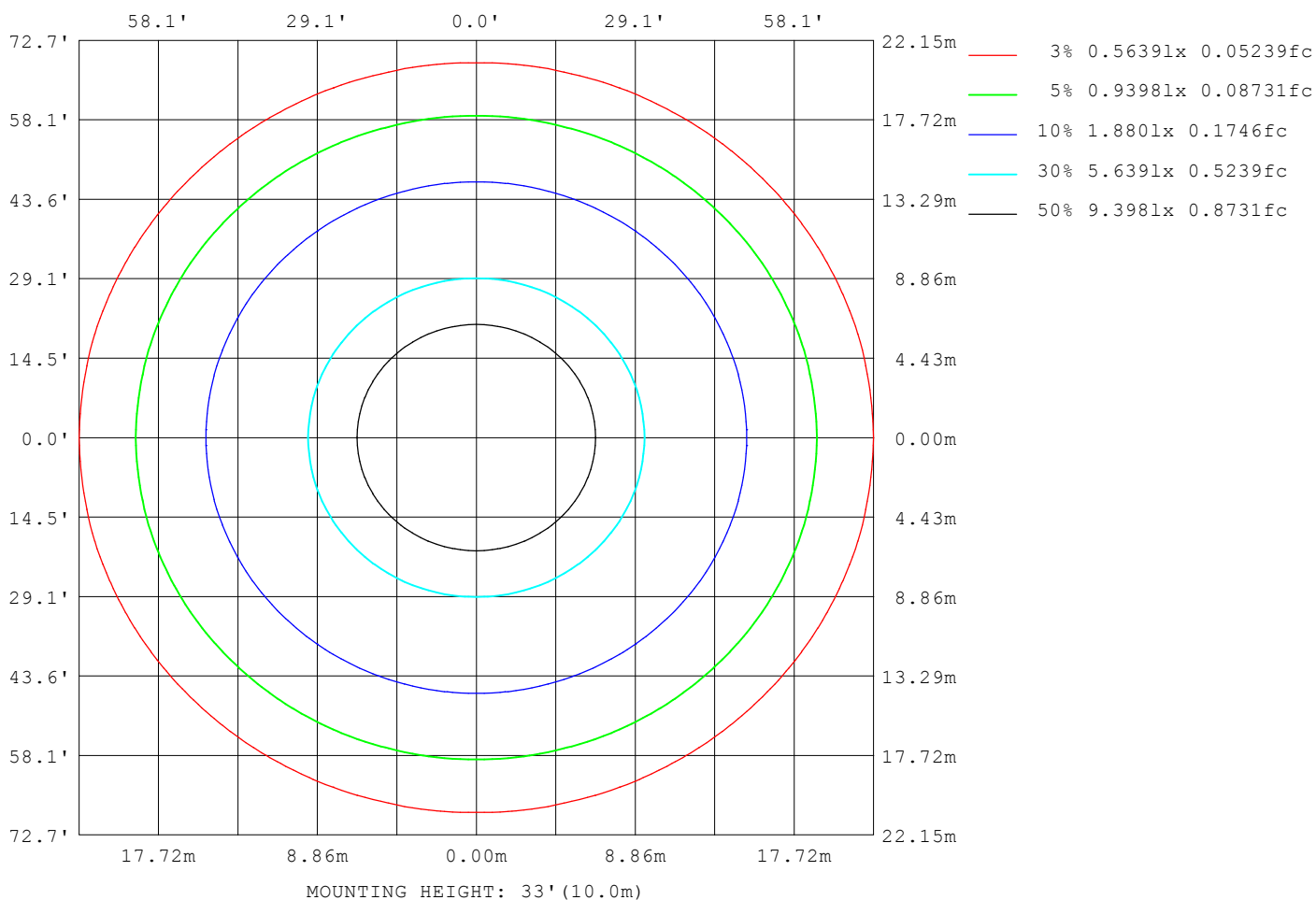
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.2°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%_4000K

ISOLUX DIAGRAM

Test:U:120.03V I:0.4095A P:48.956W PF:0.9960 Freq:60.01Hz Lamp Flux:5720.92x1 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:25.2°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%_400

LED Avg.L Report

Test:U:120.03V I:0.4095A P:48.956W PF:0.9960 Freq:60.01Hz Lamp Flux:5720.92x1 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:

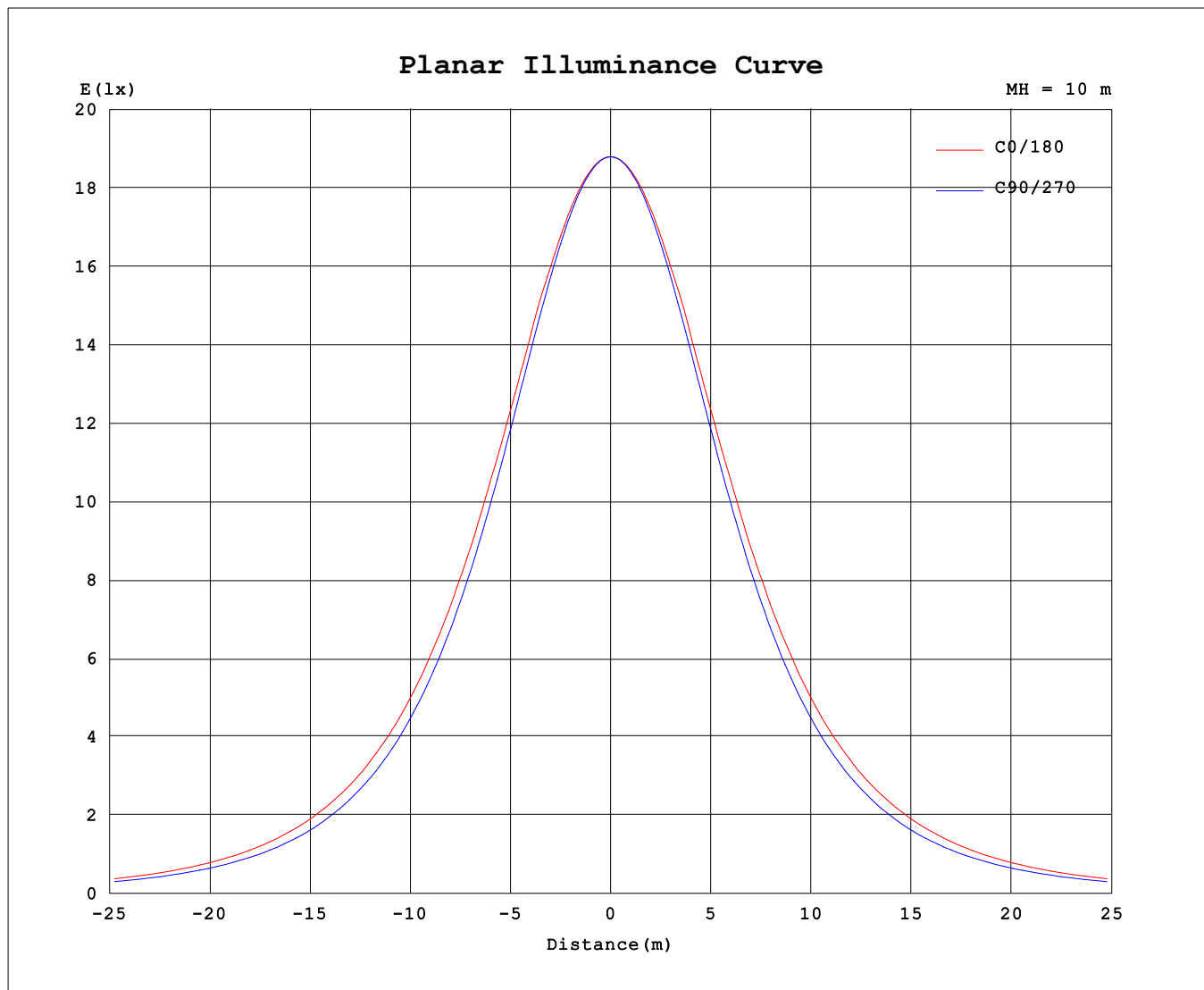
AvgL	cd/m2
L_0~180 (65) av	16720
L_0~180 (75) av	14962
L_0~180 (85) av	9138
L_90~270 (65) av	13682
L_90~270 (75) av	11782
L_90~270 (85) av	7281
L_45 (65) av	15030
L_45 (75) av	13147
L_45 (85) av	8158

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%_4000K

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%_400

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.03V I:0.4095A P:48.956W PF:0.9960 Freq:60.01Hz Lamp Flux:5720.92x1 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	1880	1879	1880	1880	1880	1880	1880	1880	1880	1880	1880	1879	1880	1879	1880	1880	1880	1880	1880
5	1874	1874	1873	1873	1872	1872	1872	1872	1872	1873	1873	1874	1874	1874	1873	1873	1872	1872	1872
10	1858	1857	1855	1852	1850	1848	1847	1848	1850	1852	1855	1857	1858	1857	1855	1852	1850	1848	1847
15	1831	1829	1825	1818	1813	1808	1807	1808	1813	1818	1825	1829	1831	1829	1825	1818	1813	1808	1807
20	1799	1796	1785	1771	1761	1753	1751	1753	1761	1771	1785	1796	1799	1796	1785	1771	1761	1753	1751
25	1742	1737	1727	1713	1695	1684	1680	1684	1695	1713	1727	1737	1742	1737	1727	1713	1695	1684	1680
30	1681	1674	1657	1638	1615	1600	1595	1600	1615	1638	1657	1674	1681	1674	1657	1638	1615	1600	1595
35	1604	1596	1578	1548	1523	1503	1497	1503	1523	1548	1578	1596	1604	1596	1578	1548	1523	1503	1497
40	1515	1506	1481	1448	1419	1394	1386	1394	1419	1448	1481	1506	1515	1506	1481	1448	1419	1394	1386
45	1410	1399	1371	1333	1297	1273	1264	1273	1297	1333	1371	1399	1410	1399	1371	1333	1297	1273	1264
50	1294	1281	1246	1206	1166	1141	1131	1141	1166	1206	1246	1281	1294	1281	1246	1206	1166	1141	1131
55	1155	1142	1109	1064	1025	999	989	999	1025	1064	1109	1142	1155	1142	1109	1064	1025	999	989
60	1001	989	954	911	874	848	839	848	874	911	954	989	1001	989	954	911	874	848	839
65	832	821	788	748	714	690	681	690	714	748	788	821	832	821	788	748	714	690	681
70	650	640	610	576	546	527	520	527	546	576	610	640	650	640	610	576	546	527	520
75	456	448	427	401	379	364	359	364	379	401	427	448	456	448	427	401	379	364	359
80	265	260	247	232	219	210	207	210	219	232	247	260	265	260	247	232	219	210	207
85	93.8	92.9	89.0	83.8	79.1	75.9	74.8	75.9	79.1	83.8	89.0	92.9	93.8	92.9	89.0	83.8	79.1	75.9	74.8
90	1.98	2.83	2.97	2.58	3.53	3.61	3.83	3.61	3.53	2.58	2.97	2.83	1.98	2.83	2.97	2.58	3.53	3.61	3.83
95	0.28	0.33	0.55	0.68	0.72	0.74	0.77	0.74	0.72	0.68	0.55	0.33	0.28	0.33	0.55	0.68	0.72	0.74	0.77
100	0.50	0.60	0.83	0.88	0.94	0.96	1.00	0.96	0.94	0.88	0.83	0.60	0.50	0.60	0.83	0.88	0.94	0.96	1.00
105	0.62	0.74	1.00	1.07	1.09	1.08	1.12	1.08	1.09	1.07	1.00	0.74	0.62	0.74	1.00	1.07	1.09	1.08	1.12
110	0.73	0.87	1.13	1.20	1.24	1.25	1.24	1.25	1.24	1.20	1.13	0.87	0.73	0.87	1.13	1.20	1.24	1.25	1.24
115	0.80	0.98	1.25	1.33	1.37	1.40	1.39	1.40	1.37	1.33	1.25	0.98	0.80	0.98	1.25	1.33	1.37	1.40	1.39
120	0.92	1.10	1.34	1.44	1.49	1.51	1.50	1.51	1.49	1.44	1.34	1.10	0.92	1.10	1.34	1.44	1.49	1.51	1.50
125	1.09	1.31	1.46	1.54	1.63	1.67	1.64	1.67	1.63	1.54	1.46	1.31	1.09	1.31	1.46	1.54	1.63	1.67	1.64
130	1.37	1.58	1.74	1.80	1.90	1.98	1.94	1.98	1.90	1.80	1.74	1.58	1.37	1.58	1.74	1.80	1.90	1.98	1.94
135	1.70	1.86	2.07	2.14	2.21	2.33	2.32	2.33	2.21	2.14	2.07	1.86	1.70	1.86	2.07	2.14	2.21	2.33	2.32
140	2.14	2.25	2.51	2.60	2.67	2.78	2.81	2.78	2.67	2.60	2.51	2.25	2.14	2.25	2.51	2.60	2.67	2.78	2.81
145	2.61	2.68	2.90	3.09	3.25	3.31	3.37	3.31	3.25	3.09	2.90	2.68	2.61	2.68	2.90	3.09	3.25	3.31	3.37
150	3.00	3.03	3.24	3.46	3.63	3.73	3.81	3.73	3.63	3.46	3.24	3.03	3.00	3.03	3.24	3.46	3.63	3.73	3.81
155	3.26	3.29	3.43	3.67	3.87	3.99	4.10	3.99	3.87	3.67	3.43	3.29	3.26	3.29	3.43	3.67	3.87	3.99	4.10
160	3.39	3.41	3.52	3.68	3.91	4.09	4.17	4.09	3.91	3.68	3.52	3.41	3.39	3.41	3.52	3.68	3.91	4.09	4.17
165	3.45	3.47	3.53	3.66	3.86	4.04	4.09	4.04	3.86	3.66	3.53	3.47	3.45	3.47	3.53	3.66	3.86	4.04	4.09
170	3.51	3.53	3.57	3.66	3.80	3.93	3.97	3.93	3.80	3.66	3.57	3.53	3.51	3.53	3.57	3.66	3.80	3.93	3.97
175	3.52	3.55	3.59	3.67	3.77	3.86	3.88	3.86	3.77	3.67	3.59	3.55	3.52	3.55	3.59	3.67	3.77	3.86	3.88
180	3.56	3.58	3.64	3.71	3.80	3.92	3.99	3.92	3.80	3.71	3.64	3.58	3.56	3.58	3.64	3.71	3.80	3.92	3.99

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%_400

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.03V I:0.4095A P:48.956W PF:0.9960 Freq:60.01Hz Lamp Flux:5720.92x1 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	1880	1880	1880	1880	1879													
5	1872	1872	1873	1873	1874													
10	1848	1850	1852	1855	1857													
15	1808	1813	1818	1825	1829													
20	1753	1761	1771	1785	1796													
25	1684	1695	1713	1727	1737													
30	1600	1615	1638	1657	1674													
35	1503	1523	1548	1578	1596													
40	1394	1419	1448	1481	1506													
45	1273	1297	1333	1371	1399													
50	1141	1166	1206	1246	1281													
55	999	1025	1064	1109	1142													
60	848	874	911	954	989													
65	690	714	748	788	821													
70	527	546	576	610	640													
75	364	379	401	427	448													
80	210	219	232	247	260													
85	75.9	79.1	83.8	89.0	92.9													
90	3.61	3.53	2.58	2.97	2.83													
95	0.74	0.72	0.68	0.55	0.33													
100	0.96	0.94	0.88	0.83	0.60													
105	1.08	1.09	1.07	1.00	0.74													
110	1.25	1.24	1.20	1.13	0.87													
115	1.40	1.37	1.33	1.25	0.98													
120	1.51	1.49	1.44	1.34	1.10													
125	1.67	1.63	1.54	1.46	1.31													
130	1.98	1.90	1.80	1.74	1.58													
135	2.33	2.21	2.14	2.07	1.86													
140	2.78	2.67	2.60	2.51	2.25													
145	3.31	3.25	3.09	2.90	2.68													
150	3.73	3.63	3.46	3.24	3.03													
155	3.99	3.87	3.67	3.43	3.29													
160	4.09	3.91	3.68	3.52	3.41													
165	4.04	3.86	3.66	3.53	3.47													
170	3.93	3.80	3.66	3.57	3.53													
175	3.86	3.77	3.67	3.59	3.55													
180	3.92	3.80	3.71	3.64	3.58													

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%_4000K