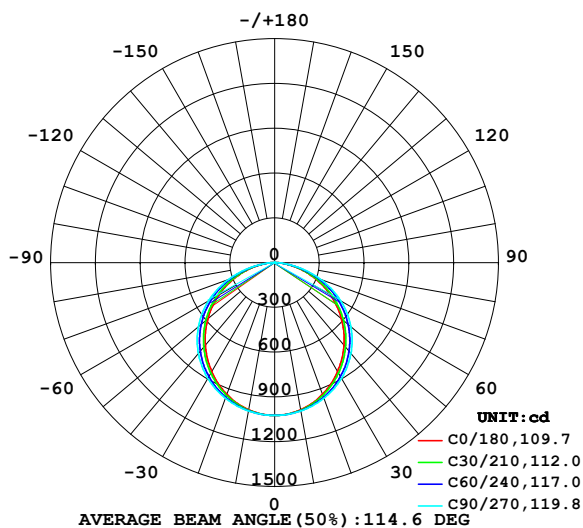


LUMINAIRE PHOTOMETRIC TEST REPORT

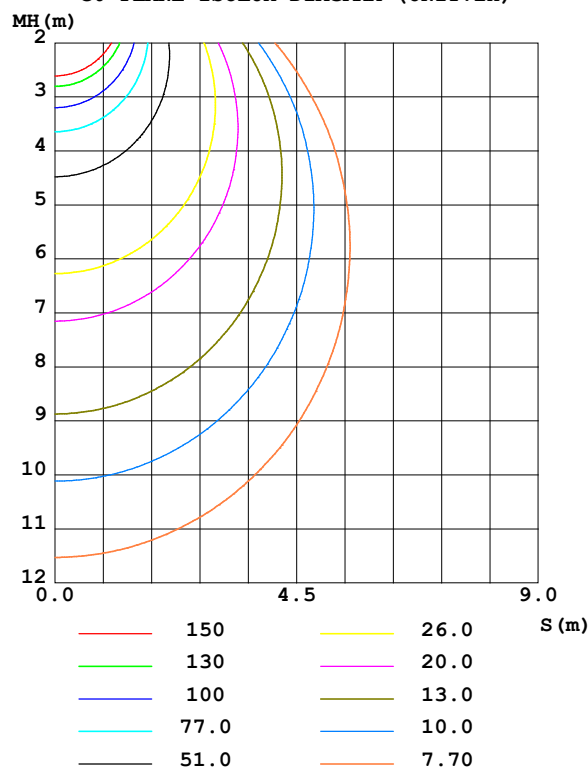
Test:U:120.28V I:0.1924A P:22.891W PF:0.9889 Freq:60.01Hz Lamp Flux:2990.91x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 130.66 lm/W
MODEL		I _{max} (cd)	1024	S/MH(C0/180)	1.23	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.30	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2990.9	η UP,DN(C0-180)	0.1,49.9	
NOMINAL FLUX(lm)	2990.91	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,49.9	
LAMPS INSIDE	1	η up (%)	0.2	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120.251	η down (%)	99.8	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%-3000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

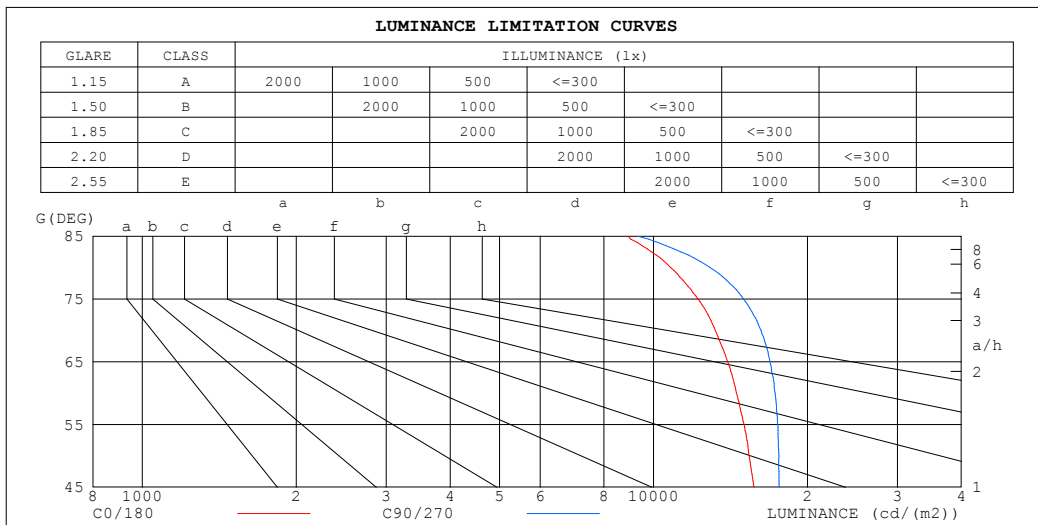
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1001	1006	1010	1006	1001	1006	1010	1006	0- 10	96.87	96.87	3.24,3.24
20	939.2	953.1	966.7	953.1	939.2	953.1	966.7	953.1	10- 20	277.6	374.5	12.5,12.5
30	843.2	868.7	896.1	868.7	843.2	868.7	896.1	868.7	20- 30	421.6	796.1	26.6,26.6
40	722.4	756.6	795.5	756.6	722.4	756.6	795.5	756.6	30- 40	510.9	1307	43.7,43.7
50	584.0	621.9	667.6	621.9	584.0	621.9	667.6	621.9	40- 50	534.9	1842	61.6,61.6
60	429.1	466.6	510.3	466.6	429.1	466.6	510.3	466.6	50- 60	489.9	2332	78,78
70	266.7	293.2	327.7	293.2	266.7	293.2	327.7	293.2	60- 70	378.8	2711	90.6,90.6
80	110.8	120.2	132.4	120.2	110.8	120.2	132.4	120.2	70- 80	218.3	2929	97.9,97.9
90	8.065	5.005	2.461	5.005	8.065	5.005	2.461	5.005	80- 90	56.77	2986	99.8,99.8
100	0.2508	0.2490	0.2244	0.2490	0.2508	0.2490	0.2244	0.2490	90-100	0.7242	2986	99.9,99.9
110	0.3764	0.3720	0.3438	0.3720	0.3764	0.3720	0.3438	0.3720	100-110	0.3259	2987	99.9,99.9
120	0.5236	0.5063	0.4721	0.5063	0.5236	0.5063	0.4721	0.5063	110-120	0.4325	2987	99.9,99.9
130	0.7855	0.7386	0.7207	0.7386	0.7855	0.7386	0.7207	0.7386	120-130	0.5418	2988	99.9,99.9
140	1.228	1.170	1.138	1.170	1.228	1.170	1.138	1.170	130-140	0.7319	2988	99.9,99.9
150	1.762	1.658	1.618	1.658	1.762	1.658	1.618	1.658	140-150	0.8979	2989	99.9,99.9
160	1.979	1.863	1.815	1.863	1.979	1.863	1.815	1.863	150-160	0.8342	2990	100,100
170	1.955	1.856	1.815	1.856	1.955	1.856	1.815	1.856	160-170	0.5305	2991	100,100
180	2.048	1.911	1.856	1.911	2.048	1.911	1.856	1.911	170-180	0.1803	2991	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000:

LUMINANCE LIMITATION CURVES

Test:U:120.28V I:0.1924A P:22.891W PF:0.9889 Freq:60.01Hz Lamp Flux:2990.91x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



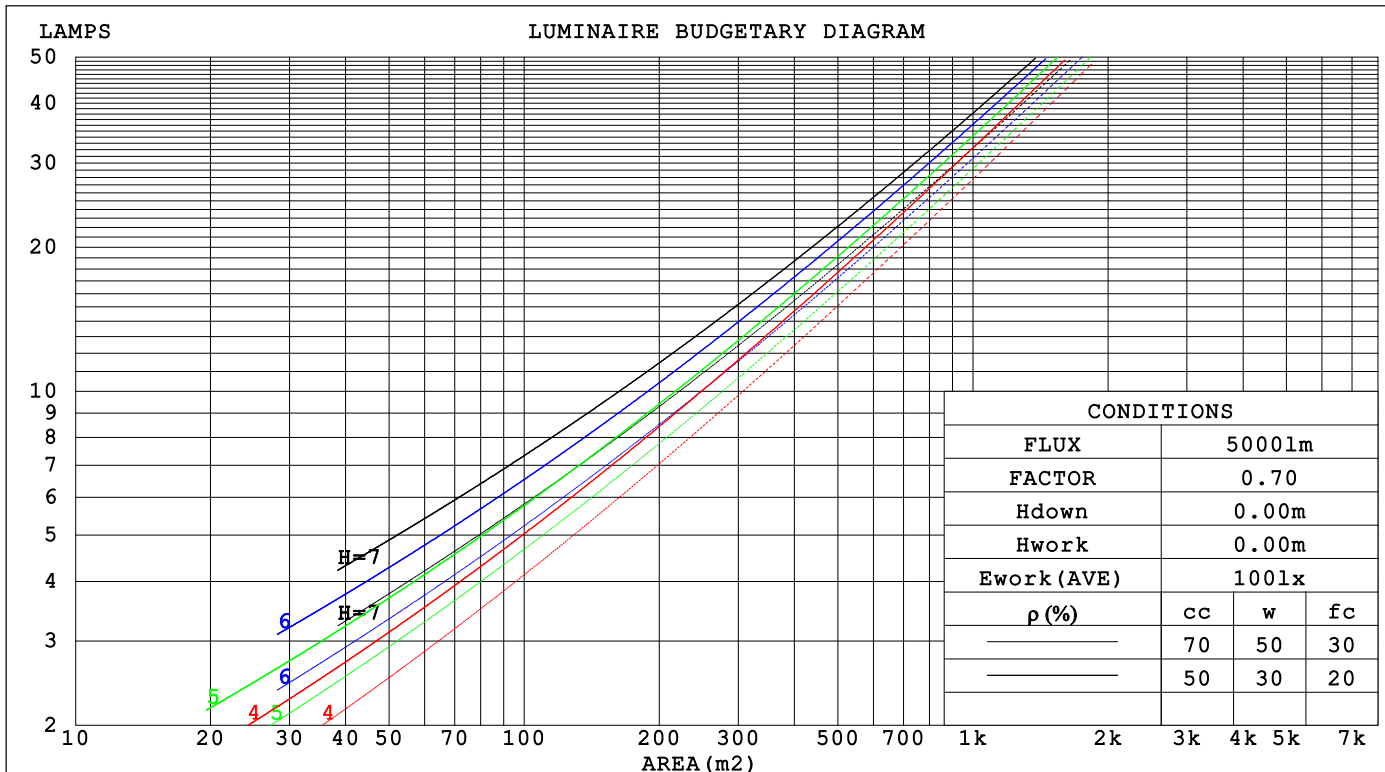
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 27.6°C
Operators: Alan Wang
Test Date: 2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 44.0%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.28V I:0.1924A P:22.891W PF:0.9889 Freq:60.01Hz Lamp Flux:2990.91x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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															



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

WEC AND CCEC

Test:U:120.28V I:0.1924A P:22.891W PF:0.9889 Freq:60.01Hz Lamp Flux:2990.91x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	.313	.178	.056	.306	.174	.055	.292	.168	.054	.280	.162	.052	.269	.156	.050		
2.0	.294	.161	.049	.288	.159	.049	.276	.154	.048	.265	.149	.047	.255	.144	.046		
3.0	.272	.145	.043	.267	.143	.043	.256	.139	.042	.247	.135	.041	.238	.132	.041		
4.0	.251	.130	.038	.246	.129	.038	.237	.126	.038	.228	.123	.037	.220	.120	.036		
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.212	.112	.033	.204	.109	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030		
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027		
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.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	.157	.135	.156	.135	.117	.106	.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	.166	.116	.075	.143	.100	.065	.098	.069	.046	.057	.040	.027	.018	.013	.009		
4.0	.159	.102	.059	.136	.088	.052	.094	.062	.036	.054	.036	.021	.017	.012	.007		
5.0	.151	.092	.048	.130	.080	.042	.089	.056	.030	.052	.033	.018	.017	.011	.006		
6.0	.144	.084	.040	.124	.072	.035	.085	.051	.025	.050	.030	.015	.016	.010	.005		
7.0	.137	.077	.034	.118	.067	.030	.082	.047	.021	.047	.027	.013	.015	.009	.004		
8.0	.131	.071	.030	.113	.062	.026	.078	.043	.019	.045	.025	.011	.015	.008	.004		
9.0	.125	.066	.026	.107	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003		
10.0	.119	.062	.024	.102	.054	.021	.071	.038	.015	.041	.022	.009	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

UGR(Unified Glare Rating) Table

Test:U:120.28V I:0.1924A P:22.891W PF:0.9889 Freq:60.01Hz Lamp Flux:2990.91x1 lm											
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	2H	22.2	23.7	22.5	23.9	24.1	23.0	24.5	23.2	24.7	24.9
	3H	23.7	25.1	24.0	25.3	25.6	24.6	26.0	24.9	26.3	26.5
	4H	24.3	25.6	24.6	25.9	26.1	25.3	26.6	25.6	26.9	27.2
	6H	24.7	25.9	25.0	26.2	26.5	25.7	27.0	26.1	27.3	27.6
	8H	24.8	26.0	25.1	26.3	26.6	25.8	27.1	26.2	27.4	27.7
	12H	24.8	26.0	25.2	26.3	26.6	25.9	27.1	26.3	27.4	27.7
4H	2H	22.9	24.3	23.2	24.5	24.8	23.5	24.9	23.8	25.1	25.4
	3H	24.6	25.7	24.9	26.0	26.3	25.4	26.5	25.7	26.8	27.1
	4H	25.3	26.3	25.6	26.7	27.0	26.1	27.2	26.5	27.5	27.9
	6H	25.8	26.7	26.2	27.1	27.5	26.7	27.7	27.1	28.0	28.4
	8H	25.9	26.8	26.4	27.2	27.6	26.9	27.8	27.3	28.2	28.5
	12H	26.0	26.9	26.5	27.3	27.7	27.0	27.8	27.4	28.2	28.6
8H	4H	25.6	26.5	26.0	26.8	27.2	26.4	27.3	26.8	27.6	28.0
	6H	26.2	27.0	26.7	27.4	27.8	27.1	27.8	27.5	28.2	28.7
	8H	26.5	27.1	26.9	27.6	28.0	27.3	28.0	27.8	28.4	28.9
	12H	26.6	27.2	27.1	27.7	28.1	27.5	28.0	28.0	28.5	29.0
12H	4H	25.6	26.4	26.0	26.8	27.2	26.4	27.2	26.8	27.6	28.0
	6H	26.3	27.0	26.8	27.4	27.8	27.1	27.8	27.6	28.2	28.7
	8H	26.6	27.2	27.1	27.6	28.1	27.4	28.0	27.9	28.4	28.9
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, 2991 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.8)
Area: 0.05905 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

UTILIZATION FACTORS TABLE

Test:U:120.28V I:0.1924A P:22.891W PF:0.9889 Freq:60.01Hz Lamp Flux:2990.91x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

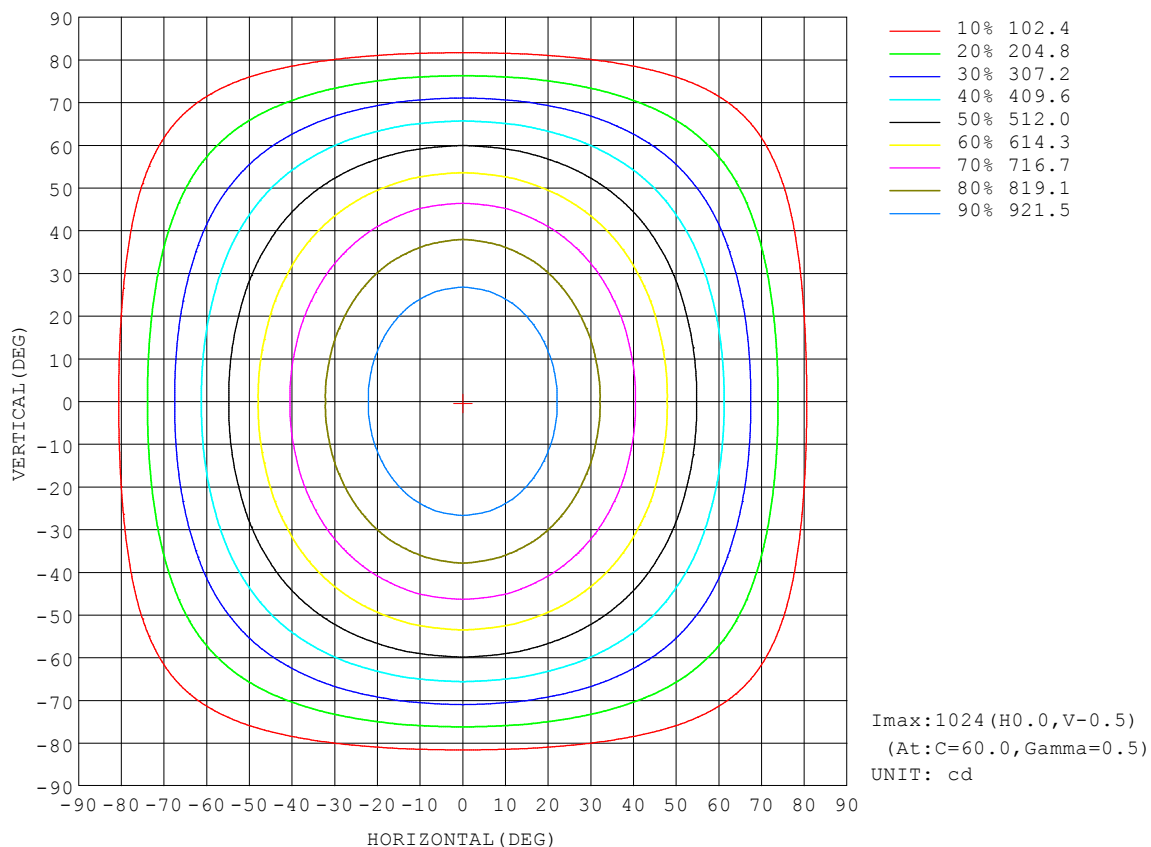
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	78
4.00	106	100	96	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:27.6°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

ISOCANDELA DIAGRAM

Test:U:120.28V I:0.1924A P:22.891W PF:0.9889 Freq:60.01Hz Lamp Flux:2990.91x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

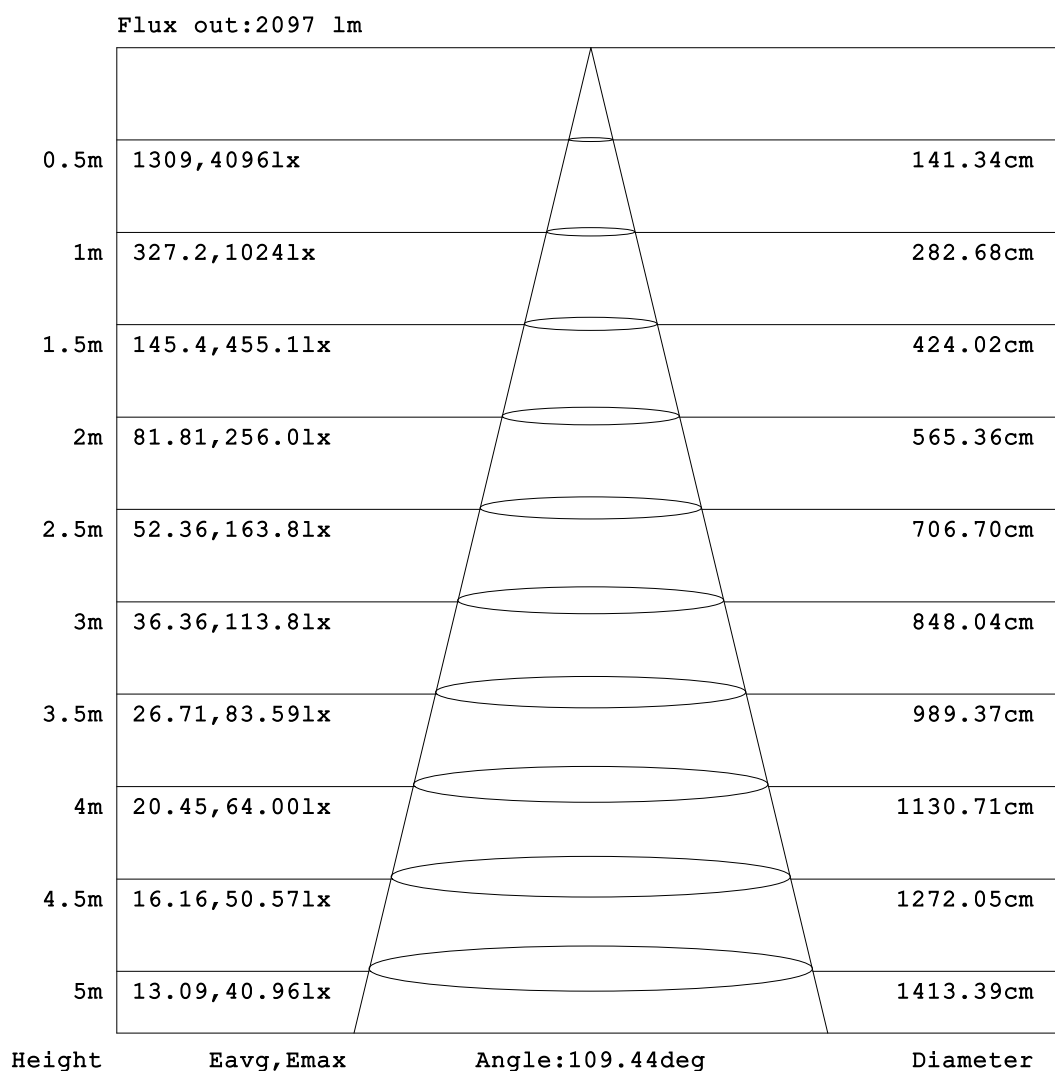


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

AAI Figure

Test:U:120.28V I:0.1924A P:22.891W PF:0.9889 Freq:60.01Hz Lamp Flux:2990.91x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



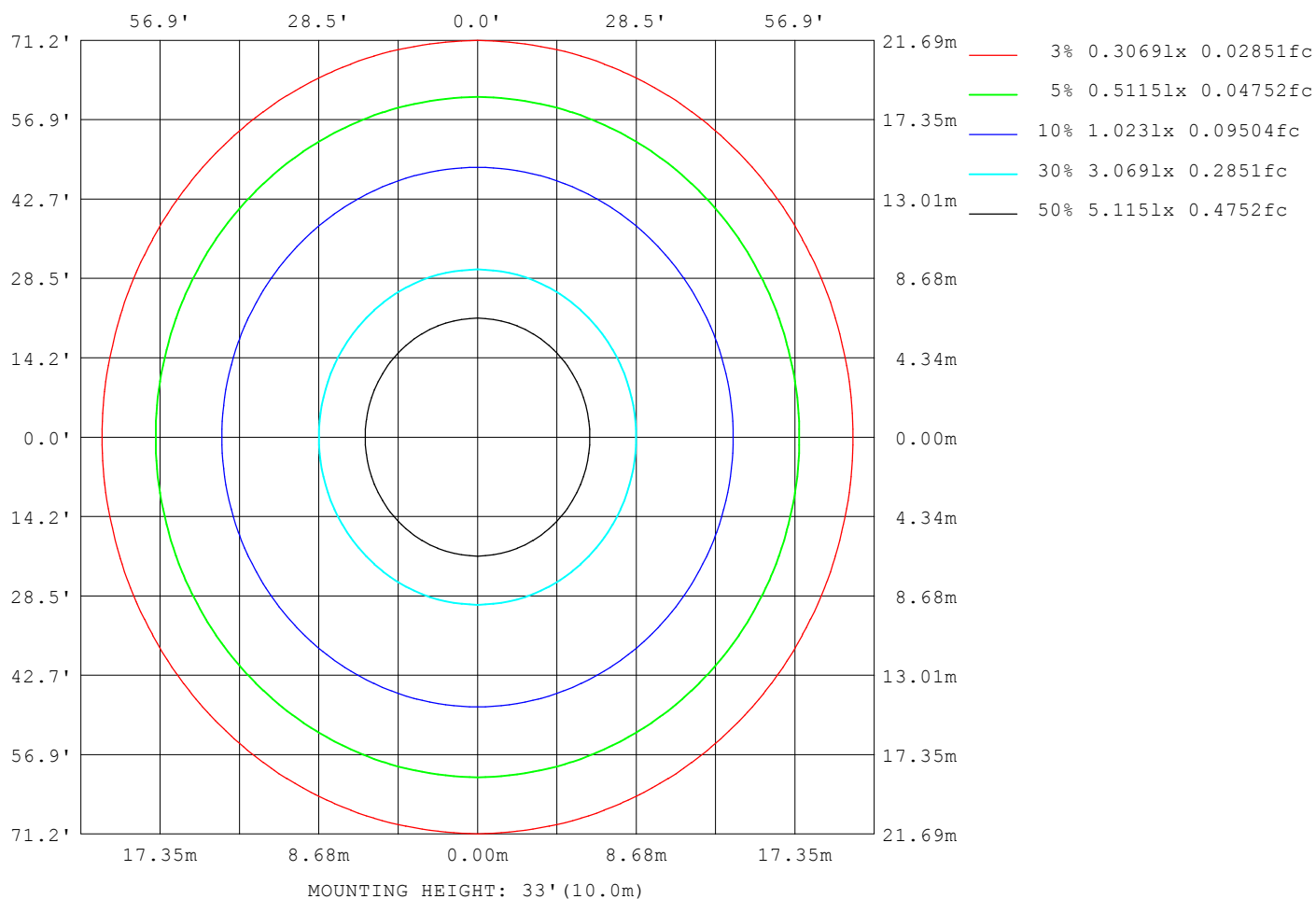
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:27.6°C
 Operators:Alan Wang
 Test Date:2026-04-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity:44.0%
 Test Distance:1.900m [K=1.0924]
 Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

ISOLUX DIAGRAM

Test:U:120.28V I:0.1924A P:22.891W PF:0.9889 Freq:60.01Hz Lamp Flux:2990.9lx1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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:27.6°C
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

LED Avg.L Report

Test:U:120.28V I:0.1924A P:22.891W PF:0.9889 Freq:60.01Hz Lamp Flux:2990.91x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

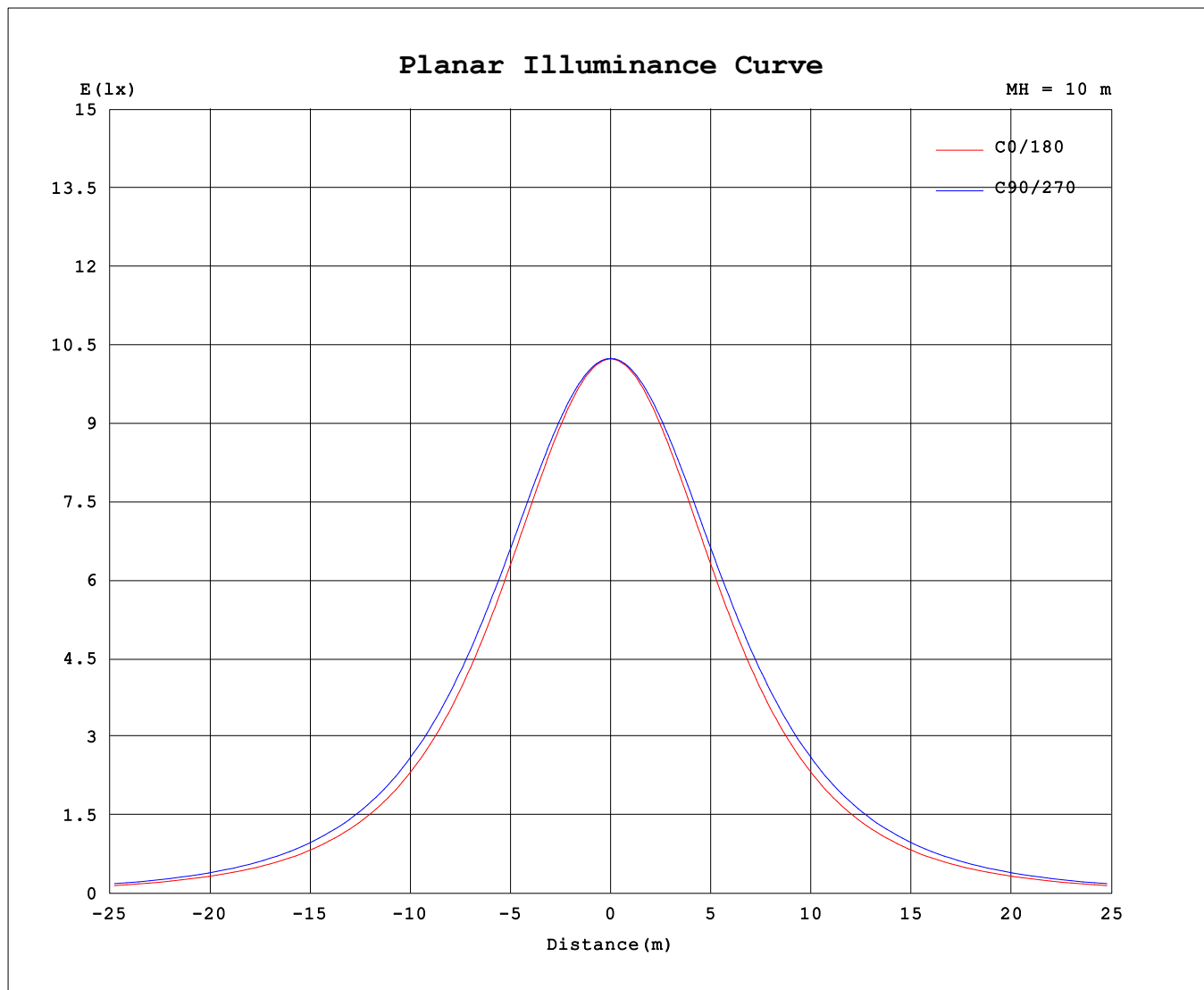
AvgL	cd/m2
L_0~180 (65) av	13969
L_0~180 (75) av	12216
L_0~180 (85) av	8923
L_90~270 (65) av	16910
L_90~270 (75) av	15004
L_90~270 (85) av	9331
L_45 (65) av	15291
L_45 (75) av	13402
L_45 (85) av	9074

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 27.6°C
Operators: Alan Wang
Test Date: 2026-04-27

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 44.0%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.28V I:0.1924A P:22.891W PF:0.9889 Freq:60.01Hz Lamp Flux:2990.91x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	1023	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1023	1024	1024	1024	1024	1024	1024
5	1017	1018	1019	1019	1020	1020	1020	1020	1020	1019	1019	1018	1017	1018	1019	1019	1020	1020	1020
10	1001	1003	1004	1006	1008	1009	1010	1009	1008	1006	1004	1003	1001	1003	1004	1006	1008	1009	1010
15	975	977	980	984	988	991	992	991	988	984	980	977	975	977	980	984	988	991	992
20	939	942	946	953	960	965	967	965	960	953	946	942	939	942	946	953	960	965	967
25	895	898	905	914	925	932	935	932	925	914	905	898	895	898	905	914	925	932	935
30	843	847	856	869	882	892	896	892	882	869	856	847	843	847	856	869	882	892	896
35	786	790	800	816	833	844	849	844	833	816	800	790	786	790	800	816	833	844	849
40	722	727	739	757	775	790	795	790	775	757	739	727	722	727	739	757	775	790	795
45	656	660	673	692	712	729	735	729	712	692	673	660	656	660	673	692	712	729	735
50	584	589	602	622	643	660	668	660	643	622	602	589	584	589	602	622	643	660	668
55	509	513	527	546	568	585	593	585	568	546	527	513	509	513	527	546	568	585	593
60	429	434	447	467	487	504	510	504	487	467	447	434	429	434	447	467	487	504	510
65	349	352	364	382	401	416	422	416	401	382	364	352	349	352	364	382	401	416	422
70	267	269	279	293	310	323	328	323	310	293	279	269	267	269	279	293	310	323	328
75	187	188	195	205	217	226	229	226	217	205	195	188	187	188	195	205	217	226	229
80	111	111	115	120	126	131	132	131	126	120	115	111	111	111	115	120	126	131	132
85	45.9	45.1	46.1	46.7	47.6	48.2	48.0	48.2	47.6	46.7	46.1	45.1	45.9	45.1	46.1	46.7	47.6	48.2	48.0
90	8.07	6.81	6.07	5.01	3.59	2.88	2.46	2.88	3.59	5.01	6.07	6.81	8.07	6.81	6.07	5.01	3.59	2.88	2.46
95	0.18	0.18	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.17	0.18	0.18	0.18	0.17	0.16	0.16	0.16	0.16
100	0.25	0.26	0.25	0.25	0.24	0.23	0.22	0.23	0.24	0.25	0.26	0.25	0.25	0.26	0.25	0.25	0.24	0.23	0.22
105	0.31	0.32	0.31	0.31	0.30	0.29	0.28	0.29	0.30	0.31	0.31	0.32	0.31	0.32	0.31	0.31	0.30	0.29	0.28
110	0.38	0.39	0.37	0.37	0.36	0.35	0.34	0.35	0.36	0.37	0.37	0.39	0.38	0.39	0.37	0.37	0.36	0.35	0.34
115	0.45	0.46	0.45	0.44	0.43	0.42	0.41	0.42	0.43	0.44	0.45	0.46	0.45	0.46	0.45	0.44	0.43	0.42	0.41
120	0.52	0.54	0.52	0.51	0.49	0.47	0.47	0.47	0.49	0.51	0.52	0.54	0.52	0.54	0.52	0.51	0.49	0.47	0.47
125	0.62	0.63	0.60	0.59	0.58	0.57	0.57	0.57	0.58	0.59	0.60	0.63	0.62	0.63	0.60	0.59	0.58	0.57	0.57
130	0.79	0.80	0.76	0.74	0.73	0.73	0.72	0.73	0.73	0.74	0.76	0.80	0.79	0.80	0.76	0.74	0.73	0.73	0.72
135	0.98	1.01	0.94	0.92	0.91	0.91	0.90	0.91	0.91	0.92	0.94	1.01	0.98	1.01	0.94	0.92	0.91	0.91	0.90
140	1.23	1.26	1.20	1.17	1.16	1.15	1.14	1.15	1.16	1.17	1.20	1.26	1.23	1.26	1.20	1.17	1.16	1.15	1.14
145	1.50	1.52	1.47	1.43	1.43	1.42	1.39	1.42	1.43	1.43	1.47	1.52	1.50	1.52	1.47	1.43	1.43	1.42	1.39
150	1.76	1.76	1.72	1.66	1.62	1.62	1.62	1.62	1.62	1.66	1.72	1.76	1.76	1.76	1.72	1.66	1.62	1.62	1.62
155	1.92	1.91	1.86	1.81	1.75	1.75	1.77	1.75	1.75	1.81	1.86	1.91	1.92	1.91	1.86	1.81	1.75	1.75	1.77
160	1.98	1.97	1.91	1.86	1.81	1.81	1.82	1.81	1.81	1.86	1.91	1.97	1.98	1.97	1.91	1.86	1.81	1.81	1.82
165	1.97	1.96	1.89	1.84	1.81	1.82	1.81	1.82	1.81	1.84	1.89	1.96	1.97	1.96	1.89	1.84	1.81	1.82	1.81
170	1.95	1.96	1.90	1.86	1.83	1.82	1.81	1.82	1.83	1.86	1.90	1.96	1.95	1.96	1.90	1.86	1.83	1.82	1.81
175	1.96	1.97	1.92	1.88	1.85	1.83	1.83	1.83	1.85	1.88	1.92	1.97	1.96	1.97	1.92	1.88	1.85	1.83	1.83
180	2.05	2.01	1.95	1.91	1.89	1.86	1.86	1.86	1.89	1.91	1.95	2.01	2.05	2.01	1.95	1.91	1.89	1.86	1.86

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.28V I:0.1924A P:22.891W PF:0.9889 Freq:60.01Hz Lamp Flux:2990.91x1 lm		
NAME: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	1024	1024	1024	1024	1024													
5	1020	1020	1019	1019	1018													
10	1009	1008	1006	1004	1003													
15	991	988	984	980	977													
20	965	960	953	946	942													
25	932	925	914	905	898													
30	892	882	869	856	847													
35	844	833	816	800	790													
40	790	775	757	739	727													
45	729	712	692	673	660													
50	660	643	622	602	589													
55	585	568	546	527	513													
60	504	487	467	447	434													
65	416	401	382	364	352													
70	323	310	293	279	269													
75	226	217	205	195	188													
80	131	126	120	115	111													
85	48.2	47.6	46.7	46.1	45.1													
90	2.88	3.59	5.01	6.07	6.81													
95	0.16	0.16	0.16	0.17	0.18													
100	0.23	0.24	0.25	0.25	0.26													
105	0.29	0.30	0.31	0.31	0.32													
110	0.35	0.36	0.37	0.37	0.39													
115	0.42	0.43	0.44	0.45	0.46													
120	0.47	0.49	0.51	0.52	0.54													
125	0.57	0.58	0.59	0.60	0.63													
130	0.73	0.73	0.74	0.76	0.80													
135	0.91	0.91	0.92	0.94	1.01													
140	1.15	1.16	1.17	1.20	1.26													
145	1.42	1.43	1.43	1.47	1.52													
150	1.62	1.62	1.66	1.72	1.76													
155	1.75	1.75	1.81	1.86	1.91													
160	1.81	1.81	1.86	1.91	1.97													
165	1.82	1.81	1.84	1.89	1.96													
170	1.82	1.83	1.86	1.90	1.96													
175	1.83	1.85	1.88	1.92	1.97													
180	1.86	1.89	1.91	1.95	2.01													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:27.6℃
Operators:Alan Wang
Test Date:2026-04-27

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:44.0%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-2S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000: