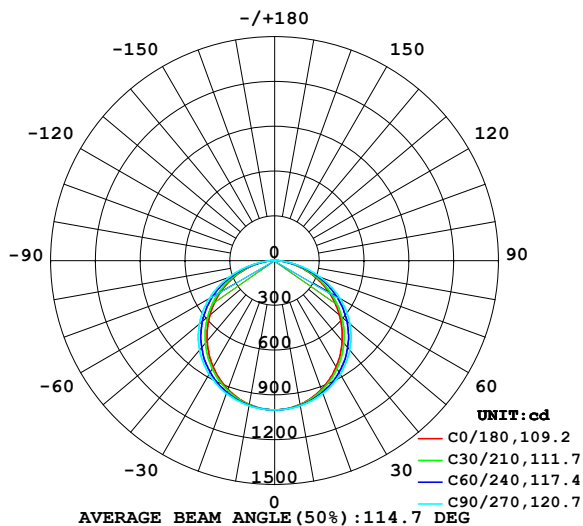


LUMINAIRE PHOTOMETRIC TEST REPORT

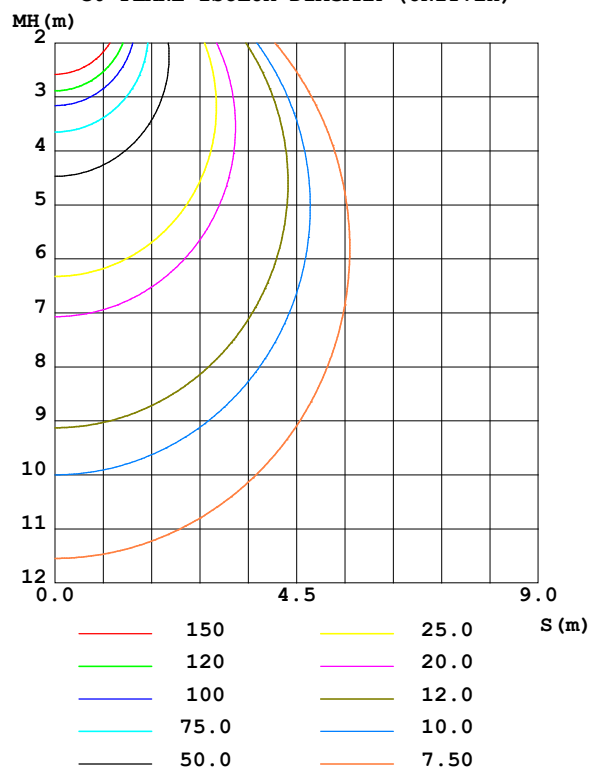
Test:U:119.96V I:0.1975A P:23.409W PF:0.9881 Freq:60.01Hz Lamp Flux:2932.5x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%-2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 125.27 lm/W
MODEL		I _{max} (cd)	1000	S/MH(C0/180)	1.23	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.31	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2932.5	η UP,DN(C0-180)	0.1,49.9	
NOMINAL FLUX(lm)	2932.5	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)	119.885	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:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%-2700K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

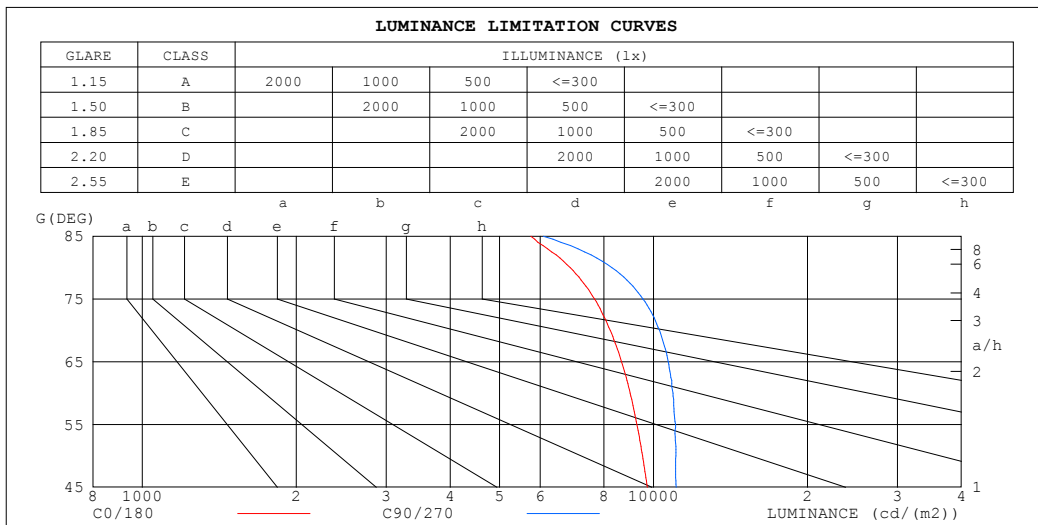
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	978.4	983.0	986.8	983.0	978.4	983.0	986.8	983.0	0- 10	94.65	94.65	3.23,3.23
20	917.4	931.8	946.5	931.8	917.4	931.8	946.5	931.8	10- 20	271.4	366.0	12.5,12.5
30	823.4	850.7	880.4	850.7	823.4	850.7	880.4	850.7	20- 30	412.5	778.5	26.5,26.5
40	704.4	740.9	783.3	740.9	704.4	740.9	783.3	740.9	30- 40	500.3	1279	43.6,43.6
50	567.2	608.7	659.3	608.7	567.2	608.7	659.3	608.7	40- 50	523.9	1803	61.5,61.5
60	417.1	455.8	506.0	455.8	417.1	455.8	506.0	455.8	50- 60	479.7	2282	77.8,77.8
70	260.9	288.1	325.8	288.1	260.9	288.1	325.8	288.1	60- 70	371.7	2654	90.5,90.5
80	110.6	120.5	133.5	120.5	110.6	120.5	133.5	120.5	70- 80	216.1	2870	97.9,97.9
90	8.108	4.548	2.094	4.548	8.108	4.548	2.094	4.548	80- 90	57.20	2927	99.8,99.8
100	0.2392	0.2362	0.2222	0.2362	0.2392	0.2362	0.2222	0.2362	90-100	0.8160	2928	99.9,99.9
110	0.3629	0.3542	0.3347	0.3542	0.3629	0.3542	0.3347	0.3542	100-110	0.3133	2928	99.9,99.9
120	0.5131	0.4839	0.4557	0.4839	0.5131	0.4839	0.4557	0.4839	110-120	0.4157	2929	99.9,99.9
130	0.7772	0.7102	0.6916	0.7102	0.7772	0.7102	0.6916	0.7102	120-130	0.5237	2929	99.9,99.9
140	1.219	1.136	1.089	1.136	1.219	1.136	1.089	1.136	130-140	0.7075	2930	99.9,99.9
150	1.756	1.608	1.538	1.608	1.756	1.608	1.538	1.608	140-150	0.8679	2931	99.9,99.9
160	1.969	1.789	1.729	1.789	1.969	1.789	1.729	1.789	150-160	0.8092	2932	100,100
170	1.944	1.806	1.752	1.806	1.944	1.806	1.752	1.806	160-170	0.5157	2932	100,100
180	2.018	1.850	1.788	1.850	2.018	1.850	1.788	1.850	170-180	0.1754	2932	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700:

LUMINANCE LIMITATION CURVES

Test:U:119.96V I:0.1975A P:23.409W PF:0.9881 Freq:60.01Hz Lamp Flux:2932.5x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	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	5755	6085
80	6868	8290
75	7663	9538
70	8227	10272
65	8659	10677
60	8998	10914
55	9279	11038
50	9517	11062
45	9727	11070

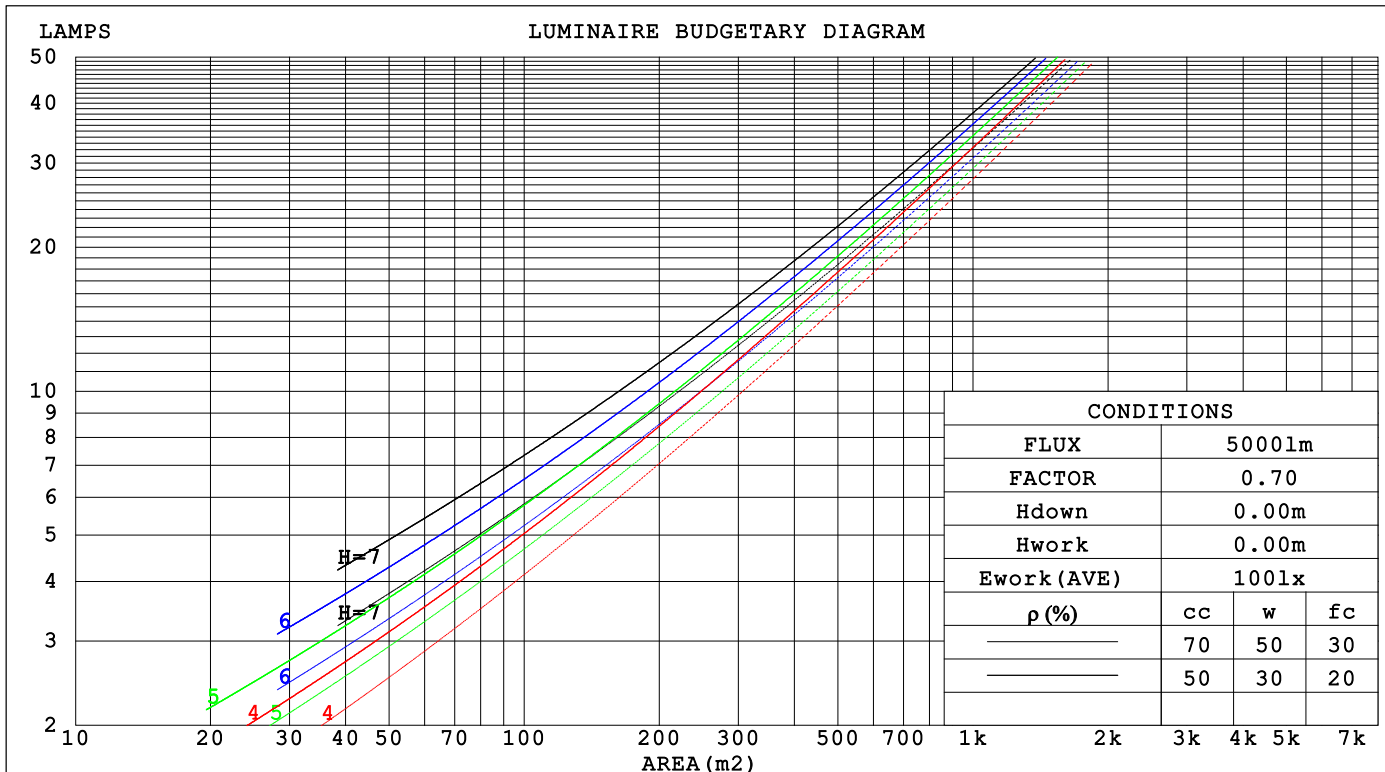
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature: 26.1°C
Operators: Alan Wang
Test Date: 2026-04-29

γ Range: 0 - 180DEG
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Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 49.3%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.96V I:0.1975A P:23.409W PF:0.9881 Freq:60.01Hz Lamp Flux:2932.5x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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															
	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	.85	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.46	.40	.51	.45	.39	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.41	.35	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.41	.33	.28	.40	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.30	.26	.37	.30	.25	.36	.30	.25	.24



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1°C
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K

WEC AND CCEC

Test:U:119.96V I:0.1975A P:23.409W PF:0.9881 Freq:60.01Hz Lamp Flux:2932.5x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	.314	.178	.057	.307	.175	.056	.293	.168	.054	.281	.162	.052	.270	.156	.050		
2.0	.295	.162	.050	.289	.159	.049	.277	.154	.048	.266	.149	.047	.256	.145	.046		
3.0	.273	.145	.043	.267	.143	.043	.257	.139	.042	.247	.135	.042	.238	.132	.041		
4.0	.251	.131	.038	.246	.129	.038	.237	.126	.038	.229	.123	.037	.221	.120	.036		
5.0	.232	.118	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.205	.109	.033		
6.0	.215	.108	.031	.211	.107	.031	.204	.105	.030	.197	.102	.030	.191	.100	.030		
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.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	.083	.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	.090	.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	.026	.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	.103	.054	.021	.071	.038	.015	.041	.022	.009	.013	.007	.003		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K

UGR(Unified Glare Rating) Table

Test:U:119.96V I:0.1975A P:23.409W PF:0.9881 Freq:60.01Hz Lamp Flux:2932.5x1 lm											
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K						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		20.5	22.0	20.8	22.2	22.5	21.4	22.9	21.6	23.1	23.3
3H		22.0	23.4	22.3	23.6	23.9	23.0	24.5	23.3	24.7	24.9
4H		22.6	23.9	22.9	24.2	24.5	23.7	25.1	24.0	25.3	25.6
6H		23.0	24.3	23.3	24.6	24.8	24.2	25.4	24.5	25.7	26.0
8H		23.1	24.4	23.5	24.7	25.0	24.3	25.5	24.6	25.8	26.1
12H		23.2	24.4	23.6	24.7	25.0	24.4	25.5	24.7	25.8	26.1
4H 2H		21.2	22.6	21.6	22.8	23.1	21.9	23.2	22.2	23.5	23.8
3H		22.9	24.1	23.2	24.4	24.7	23.8	24.9	24.1	25.2	25.6
4H		23.6	24.7	24.0	25.0	25.3	24.6	25.6	24.9	26.0	26.3
6H		24.1	25.1	24.5	25.5	25.8	25.1	26.1	25.6	26.5	26.8
8H		24.3	25.2	24.7	25.6	26.0	25.3	26.2	25.7	26.6	27.0
12H		24.4	25.3	24.9	25.6	26.0	25.4	26.3	25.9	26.6	27.1
8H 4H		23.9	24.8	24.3	25.2	25.6	24.8	25.7	25.2	26.0	26.4
6H		24.6	25.4	25.1	25.8	26.2	25.5	26.3	26.0	26.7	27.1
8H		24.9	25.5	25.3	26.0	26.4	25.8	26.4	26.2	26.9	27.3
12H		25.1	25.6	25.5	26.1	26.6	25.9	26.5	26.4	27.0	27.4
12H 4H		24.0	24.8	24.4	25.2	25.6	24.8	25.6	25.2	26.0	26.4
6H		24.7	25.3	25.1	25.8	26.2	25.6	26.2	26.0	26.6	27.1
8H		25.0	25.6	25.5	26.0	26.5	25.9	26.4	26.3	26.9	27.4
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, 2932 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.7)
Area: 0.09272 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K

UTILIZATION FACTORS TABLE

Test:U:119.96V I:0.1975A P:23.409W PF:0.9881 Freq:60.01Hz Lamp Flux:2932.5x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

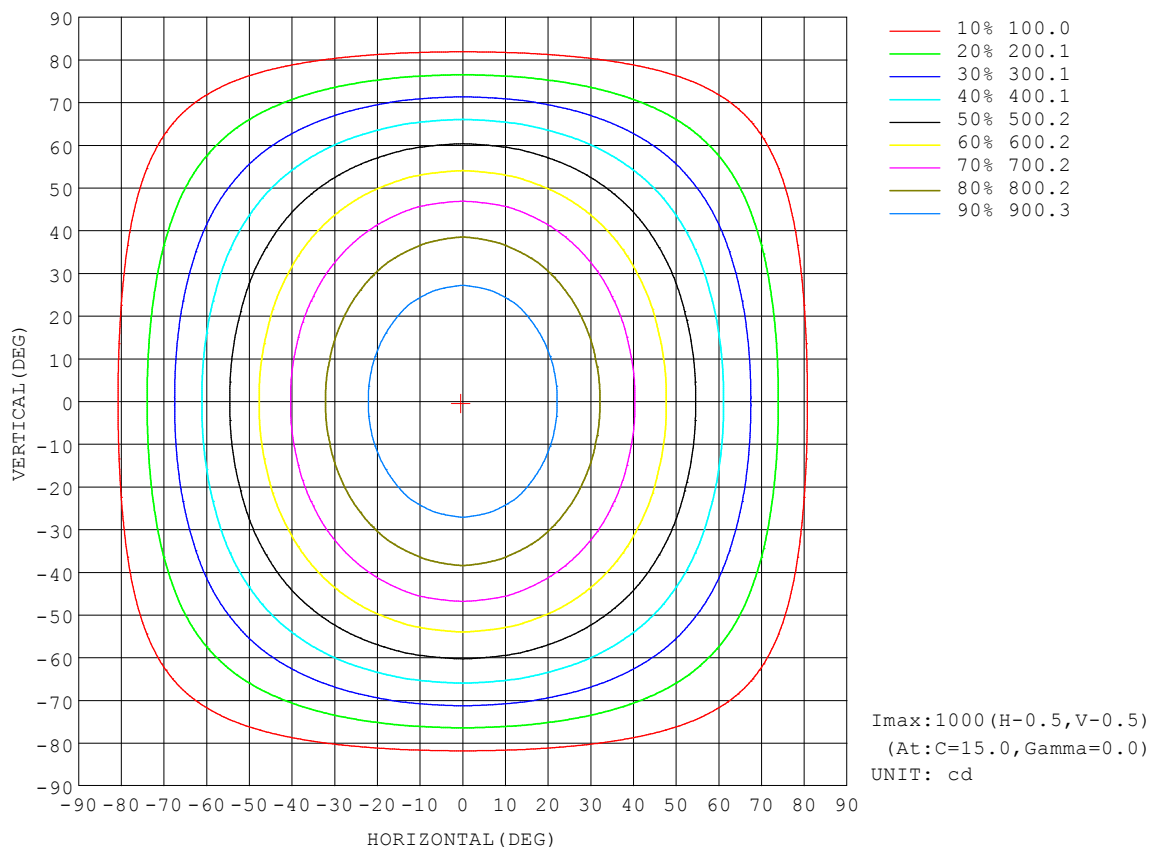
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	56	72	65	56	49
1.25	83	72	65	81	71	64	78	70	63	56
1.50	88	78	70	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	99	91	84	96	89	84	93	87	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: 26.1°C
Operators: Alan Wang
Test Date: 2026-04-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity: 49.3%
Test Distance: 1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K

ISOCANDELA DIAGRAM

Test:U:119.96V I:0.1975A P:23.409W PF:0.9881 Freq:60.01Hz Lamp Flux:2932.5x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

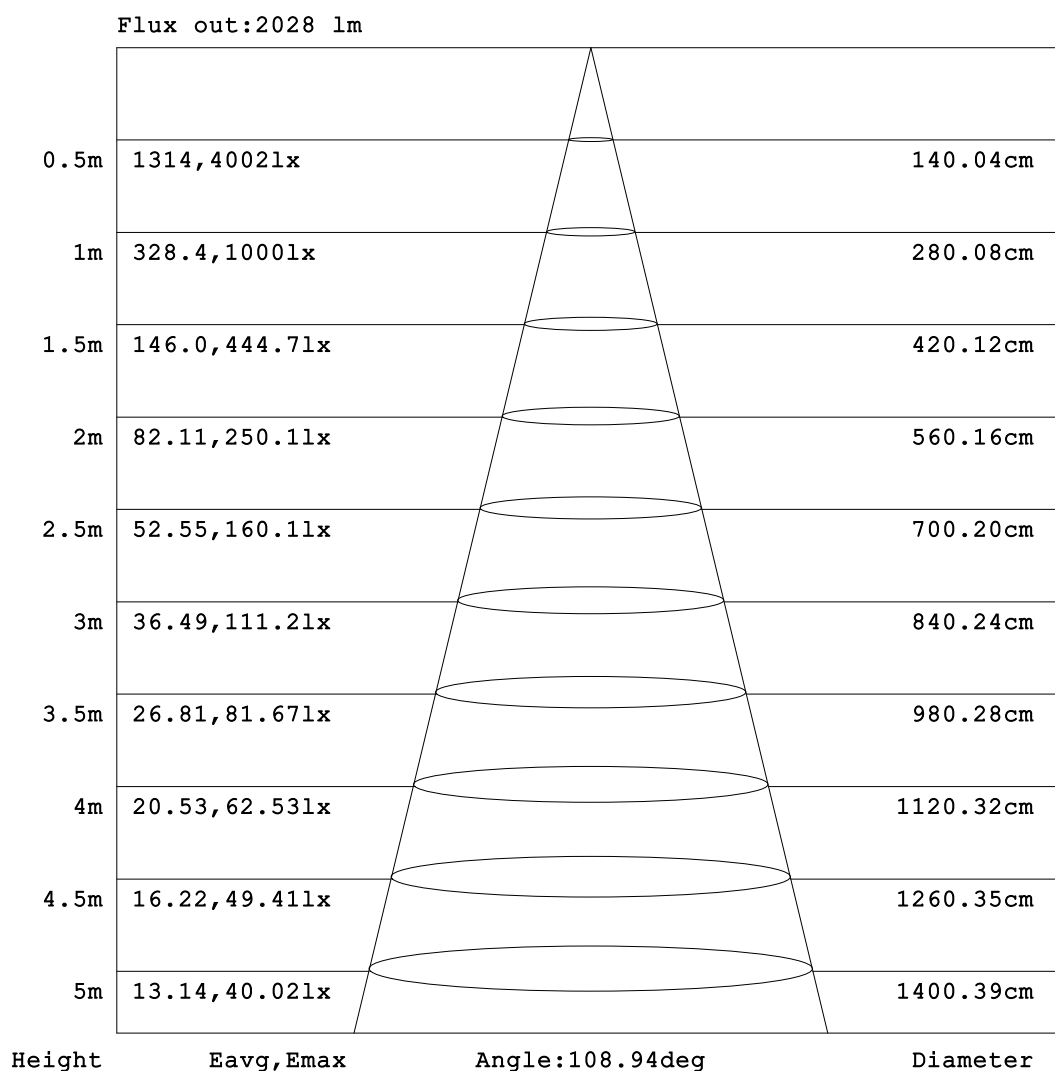


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1°C
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K

AAI Figure

Test:U:119.96V I:0.1975A P:23.409W PF:0.9881 Freq:60.01Hz Lamp Flux:2932.5x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



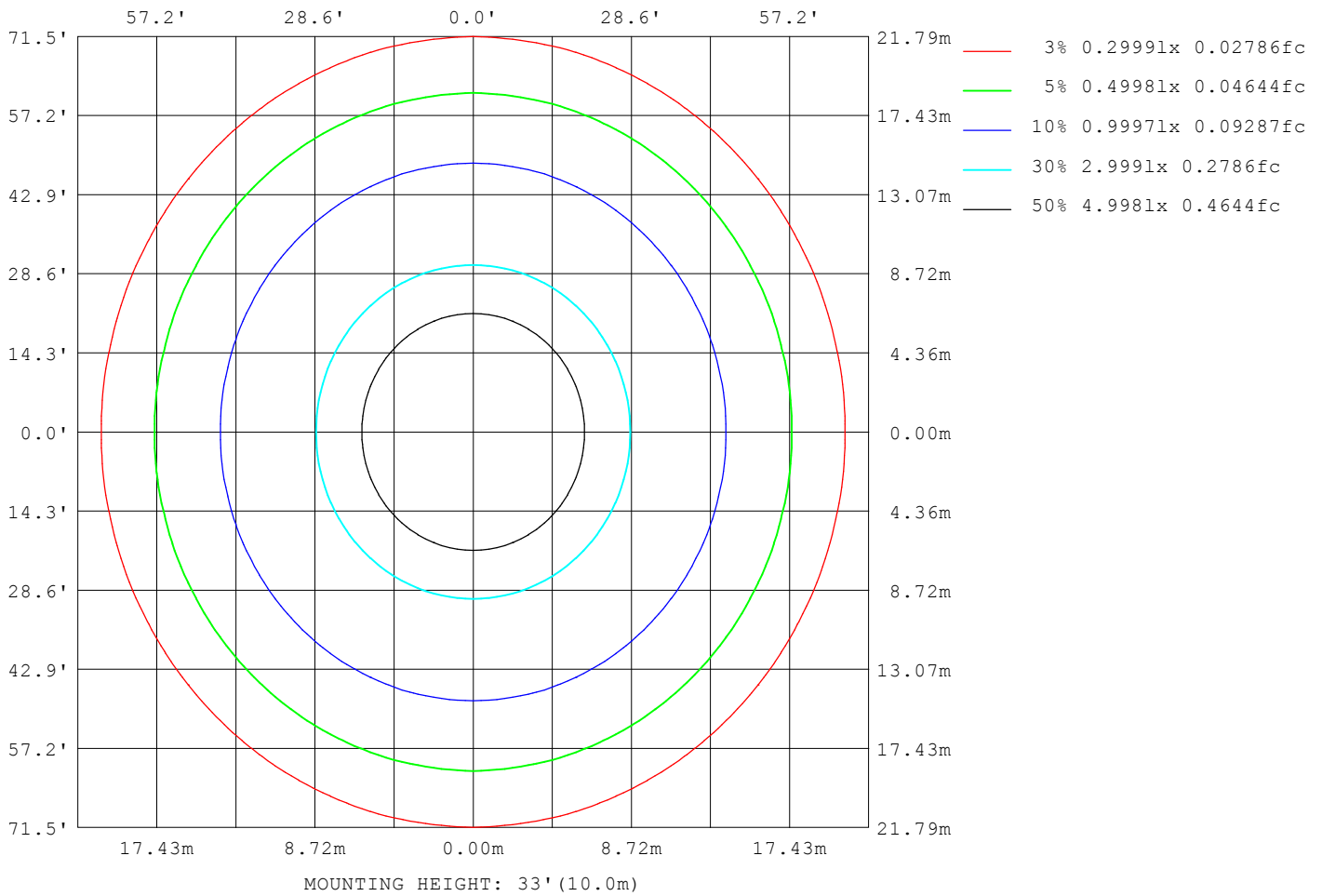
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1°C
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K

ISOLUX DIAGRAM

Test:U:119.96V I:0.1975A P:23.409W PF:0.9881 Freq:60.01Hz Lamp Flux:2932.5x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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:26.1°C
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K

LED Avg.L Report

Test:U:119.96V I:0.1975A P:23.409W PF:0.9881 Freq:60.01Hz Lamp Flux:2932.5x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

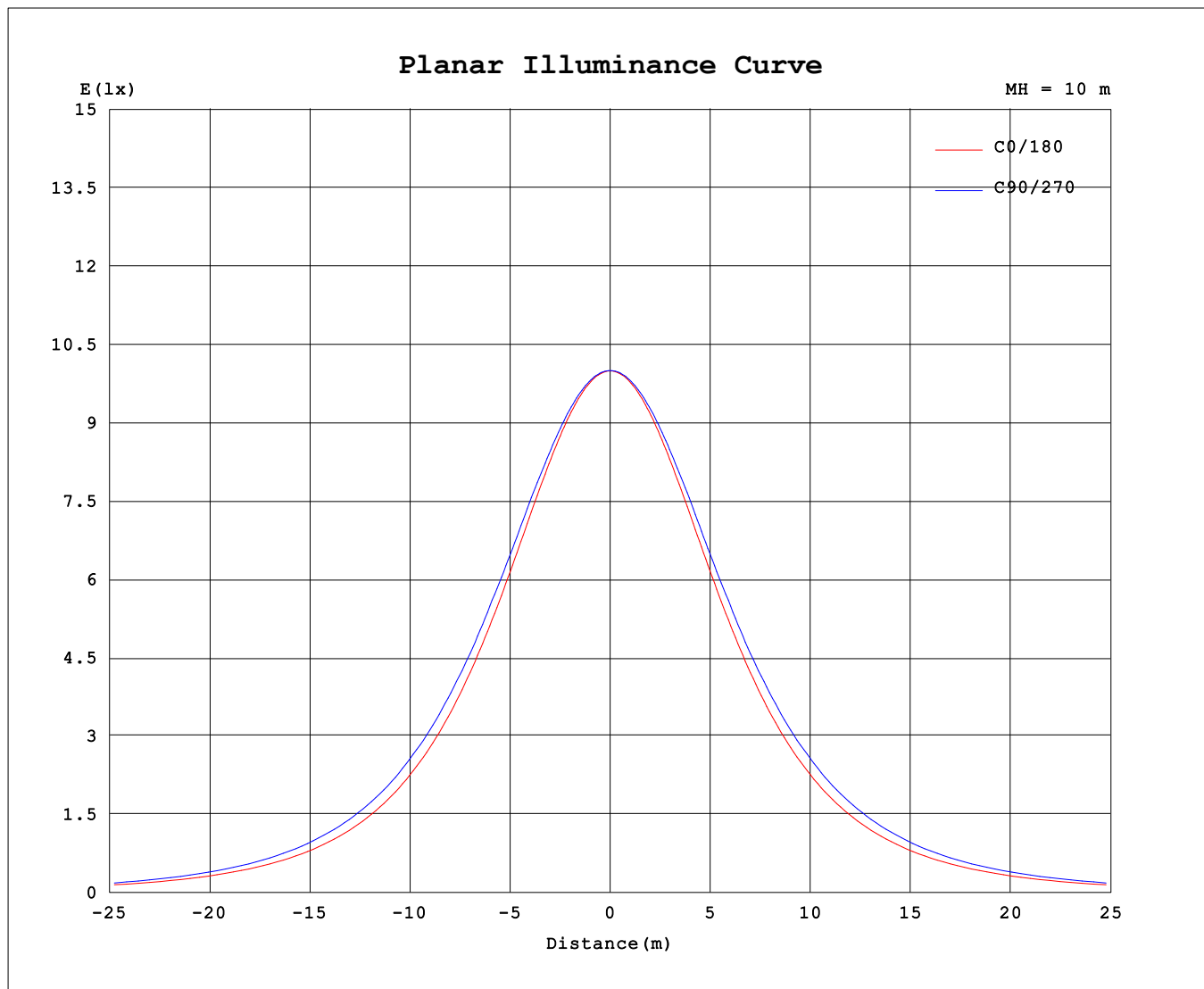
AvgL	cd/m2
L_0~180 (65) av	8659
L_0~180 (75) av	7663
L_0~180 (85) av	5755
L_90~270 (65) av	10677
L_90~270 (75) av	9538
L_90~270 (85) av	6085
L_45 (65) av	9525
L_45 (75) av	8447
L_45 (85) av	5932

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 26.1°C
 Operators: Alan Wang
 Test Date: 2026-04-29

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.459
 Humidity: 49.3%
 Test Distance: 1.900m [K=1.0924]
 Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.96V I:0.1975A P:23.409W PF:0.9881 Freq:60.01Hz Lamp Flux:2932.5x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K	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	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
5	994	995	996	996	997	997	997	997	997	996	996	995	994	995	996	996	997	997	997
10	978	980	981	983	985	986	987	986	985	983	981	980	978	980	981	983	985	986	987
15	953	954	957	962	966	969	970	969	966	962	957	954	953	954	957	962	966	969	970
20	917	920	925	932	939	944	947	944	939	932	925	920	917	920	925	932	939	944	947
25	874	877	884	894	906	913	916	913	906	894	884	877	874	877	884	894	906	913	916
30	823	827	837	851	864	875	880	875	864	851	837	827	823	827	837	851	864	875	880
35	767	771	782	798	818	829	834	829	818	798	782	771	767	771	782	798	818	829	834
40	704	709	722	741	761	778	783	778	761	741	722	709	704	709	722	741	761	778	783
45	638	643	658	678	700	718	726	718	700	678	658	643	638	643	658	678	700	718	726
50	567	572	587	609	633	651	659	651	633	609	587	572	567	572	587	609	633	651	659
55	493	498	513	534	559	578	587	578	559	534	513	498	493	498	513	534	559	578	587
60	417	422	435	456	479	499	506	499	479	456	435	422	417	422	435	456	479	499	506
65	339	343	355	373	394	412	418	412	394	373	355	343	339	343	355	373	394	412	418
70	261	264	273	288	305	320	326	320	305	288	273	264	261	264	273	288	305	320	326
75	184	186	192	203	215	225	229	225	215	203	192	186	184	186	192	203	215	225	229
80	111	111	115	120	127	132	133	132	127	120	115	111	111	111	115	120	127	132	133
85	46.5	45.7	46.7	47.9	49.0	49.4	49.2	49.4	49.0	47.9	46.7	45.7	46.5	45.7	46.7	47.9	49.0	49.4	49.2
90	8.11	6.85	5.80	4.55	3.02	2.34	2.09	2.34	3.02	4.55	5.80	6.85	8.11	6.85	5.80	4.55	3.02	2.34	2.09
95	0.19	0.17	0.15	0.15	0.15	0.14	0.14	0.14	0.15	0.15	0.15	0.17	0.19	0.17	0.15	0.15	0.15	0.14	0.14
100	0.24	0.25	0.23	0.24	0.23	0.22	0.22	0.22	0.23	0.24	0.23	0.25	0.24	0.25	0.23	0.24	0.23	0.22	0.22
105	0.30	0.31	0.29	0.30	0.29	0.28	0.28	0.28	0.29	0.30	0.29	0.31	0.30	0.31	0.29	0.30	0.29	0.28	0.28
110	0.36	0.37	0.36	0.35	0.35	0.34	0.33	0.34	0.35	0.35	0.36	0.37	0.36	0.37	0.36	0.35	0.35	0.34	0.33
115	0.44	0.44	0.42	0.42	0.41	0.40	0.39	0.40	0.41	0.42	0.42	0.44	0.44	0.44	0.42	0.42	0.41	0.40	0.39
120	0.51	0.52	0.50	0.48	0.48	0.46	0.46	0.46	0.48	0.48	0.50	0.52	0.51	0.52	0.50	0.48	0.48	0.46	0.46
125	0.61	0.61	0.58	0.56	0.56	0.55	0.54	0.55	0.56	0.56	0.58	0.61	0.61	0.61	0.58	0.56	0.56	0.55	0.54
130	0.78	0.77	0.73	0.71	0.70	0.71	0.69	0.71	0.70	0.71	0.73	0.77	0.78	0.77	0.73	0.71	0.70	0.71	0.69
135	0.97	0.96	0.91	0.89	0.88	0.88	0.86	0.88	0.88	0.89	0.91	0.96	0.97	0.96	0.91	0.89	0.88	0.88	0.86
140	1.22	1.21	1.16	1.14	1.12	1.11	1.09	1.11	1.12	1.14	1.16	1.21	1.22	1.21	1.16	1.14	1.12	1.11	1.09
145	1.49	1.48	1.44	1.39	1.36	1.34	1.32	1.34	1.36	1.39	1.44	1.48	1.49	1.48	1.44	1.39	1.36	1.34	1.32
150	1.76	1.72	1.67	1.61	1.57	1.55	1.54	1.55	1.57	1.61	1.67	1.72	1.76	1.72	1.67	1.61	1.57	1.55	1.54
155	1.92	1.87	1.81	1.76	1.68	1.69	1.68	1.69	1.68	1.76	1.81	1.87	1.92	1.87	1.81	1.76	1.68	1.69	1.68
160	1.97	1.93	1.86	1.79	1.75	1.74	1.73	1.74	1.75	1.79	1.86	1.93	1.97	1.93	1.86	1.79	1.75	1.74	1.73
165	1.96	1.92	1.85	1.78	1.75	1.74	1.73	1.74	1.75	1.78	1.85	1.92	1.96	1.92	1.85	1.78	1.75	1.74	1.73
170	1.94	1.92	1.86	1.81	1.78	1.76	1.75	1.76	1.78	1.81	1.86	1.92	1.94	1.92	1.86	1.81	1.78	1.76	1.75
175	1.93	1.92	1.87	1.82	1.79	1.77	1.76	1.77	1.79	1.82	1.87	1.92	1.93	1.92	1.87	1.82	1.79	1.77	1.76
180	2.02	1.96	1.89	1.85	1.82	1.80	1.79	1.80	1.82	1.85	1.89	1.96	2.02	1.96	1.89	1.85	1.82	1.80	1.79

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.96V I:0.1975A P:23.409W PF:0.9881 Freq:60.01Hz Lamp Flux:2932.5x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	1000	1000	1000	1000	1000													
5	997	997	996	996	995													
10	986	985	983	981	980													
15	969	966	962	957	954													
20	944	939	932	925	920													
25	913	906	894	884	877													
30	875	864	851	837	827													
35	829	818	798	782	771													
40	778	761	741	722	709													
45	718	700	678	658	643													
50	651	633	609	587	572													
55	578	559	534	513	498													
60	499	479	456	435	422													
65	412	394	373	355	343													
70	320	305	288	273	264													
75	225	215	203	192	186													
80	132	127	120	115	111													
85	49.4	49.0	47.9	46.7	45.7													
90	2.34	3.02	4.55	5.80	6.85													
95	0.14	0.15	0.15	0.15	0.17													
100	0.22	0.23	0.24	0.23	0.25													
105	0.28	0.29	0.30	0.29	0.31													
110	0.34	0.35	0.35	0.36	0.37													
115	0.40	0.41	0.42	0.42	0.44													
120	0.46	0.48	0.48	0.50	0.52													
125	0.55	0.56	0.56	0.58	0.61													
130	0.71	0.70	0.71	0.73	0.77													
135	0.88	0.88	0.89	0.91	0.96													
140	1.11	1.12	1.14	1.16	1.21													
145	1.34	1.36	1.39	1.44	1.48													
150	1.55	1.57	1.61	1.67	1.72													
155	1.69	1.68	1.76	1.81	1.87													
160	1.74	1.75	1.79	1.86	1.93													
165	1.74	1.75	1.78	1.85	1.92													
170	1.76	1.78	1.81	1.86	1.92													
175	1.77	1.79	1.82	1.87	1.92													
180	1.80	1.82	1.85	1.89	1.96													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_2700: