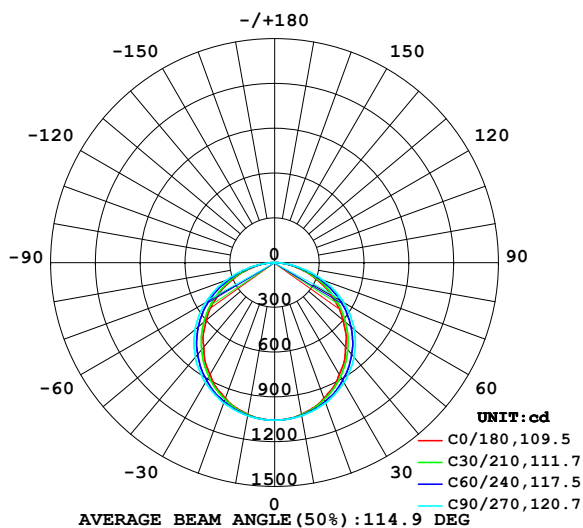


LUMINAIRE PHOTOMETRIC TEST REPORT

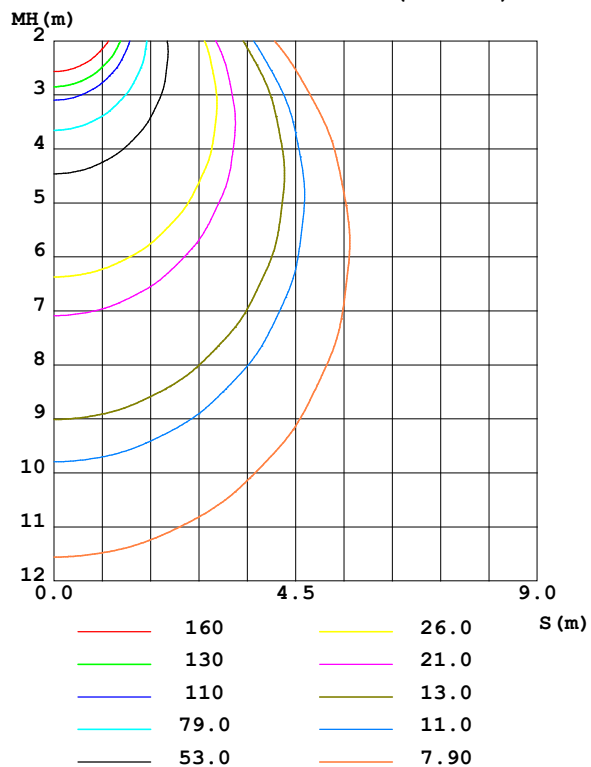
Test:U:119.95V I:0.1966A P:23.297W PF:0.9881 Freq:60.01Hz Lamp Flux:3094.56x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 132.83 lm/W
MODEL		I _{max} (cd)	1056	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)	3094.6	η UP,DN(C0-180)	0.1,49.9	
NOMINAL FLUX(lm)	3094.56	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°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%_4000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

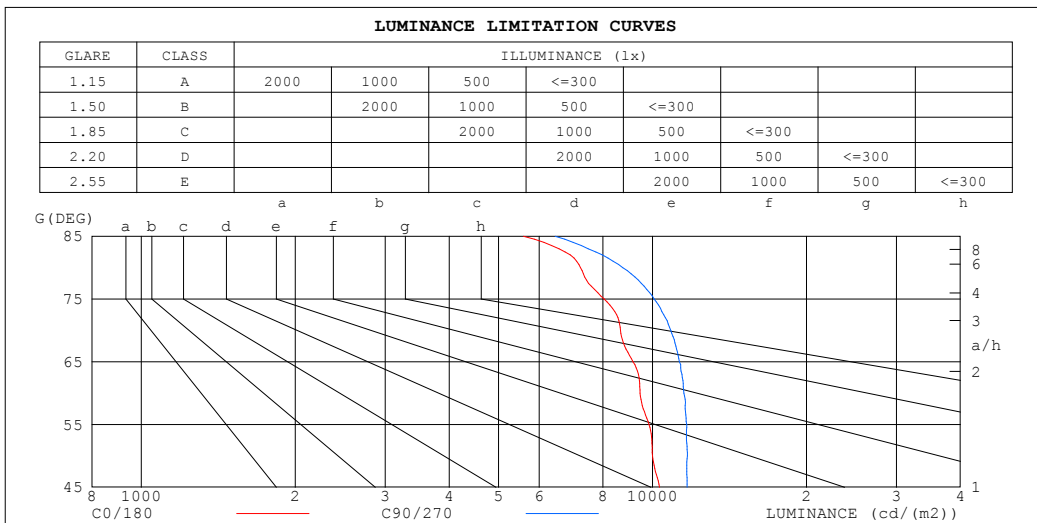
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1032	1037	1041	1037	1032	1037	1041	1037	0- 10	99.87	99.87	3.23,3.23
20	966.9	983.5	999.8	983.5	966.9	983.5	999.8	983.5	10- 20	286.4	386.2	12.5,12.5
30	866.7	898.9	929.2	898.9	866.7	898.9	929.2	898.9	20- 30	435.5	821.7	26.6,26.6
40	740.6	783.0	827.0	783.0	740.6	783.0	827.0	783.0	30- 40	528.3	1350	43.6,43.6
50	596.0	643.0	697.7	643.0	596.0	643.0	697.7	643.0	40- 50	553.4	1903	61.5,61.5
60	438.4	481.6	534.2	481.6	438.4	481.6	534.2	481.6	50- 60	506.8	2410	77.9,77.9
70	274.7	304.3	344.0	304.3	274.7	304.3	344.0	304.3	60- 70	392.6	2803	90.6,90.6
80	116.4	126.8	140.8	126.8	116.4	126.8	140.8	126.8	70- 80	227.9	3031	97.9,97.9
90	3.339	2.677	2.185	2.677	3.339	2.677	2.185	2.677	80- 90	58.82	3090	99.8,99.8
100	0.2609	0.2585	0.2430	0.2585	0.2609	0.2585	0.2430	0.2585	90-100	0.4420	3090	99.9,99.9
110	0.3903	0.3812	0.3578	0.3812	0.3903	0.3812	0.3578	0.3812	100-110	0.3387	3090	99.9,99.9
120	0.5482	0.5181	0.4844	0.5181	0.5482	0.5181	0.4844	0.5181	110-120	0.4453	3091	99.9,99.9
130	0.8287	0.7572	0.7362	0.7572	0.8287	0.7572	0.7362	0.7572	120-130	0.5592	3091	99.9,99.9
140	1.295	1.211	1.155	1.211	1.295	1.211	1.155	1.211	130-140	0.7530	3092	99.9,99.9
150	1.857	1.705	1.628	1.705	1.857	1.705	1.628	1.705	140-150	0.9204	3093	99.9,99.9
160	2.076	1.896	1.828	1.896	2.076	1.896	1.828	1.896	150-160	0.8571	3094	100,100
170	2.046	1.913	1.855	1.913	2.046	1.913	1.855	1.913	160-170	0.5461	3094	100,100
180	2.121	1.961	1.896	1.961	2.121	1.961	1.896	1.961	170-180	0.1856	3095	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%_4000:

LUMINANCE LIMITATION CURVES

Test:U:119.95V I:0.1966A P:23.297W PF:0.9881 Freq:60.01Hz Lamp Flux:3094.56x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	5594	6451
80	7232	8748
75	8037	10074
70	8661	10847
65	9162	11294
60	9457	11523
55	9839	11663
50	10000	11707
45	10323	11689

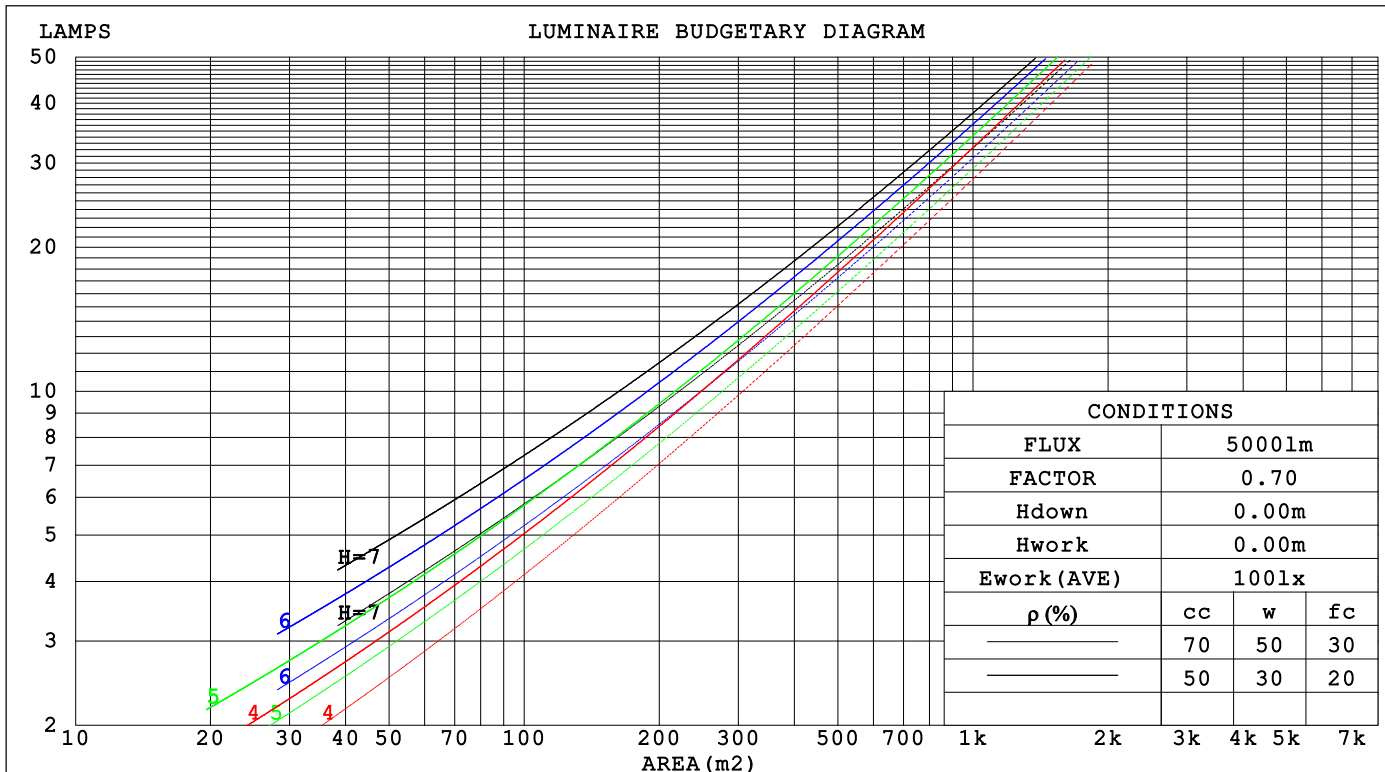
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1°C
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γ Range: 0 - 180DEG
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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.459
Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.95V I:0.1966A P:23.297W PF:0.9881 Freq:60.01Hz Lamp Flux:3094.56x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	.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	.64	.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℃
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%_4000K

WEC AND CCEC

Test:U:119.95V I:0.1966A P:23.297W PF:0.9881 Freq:60.01Hz Lamp Flux:3094.56x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	.313	.178	.056	.306	.175	.055	.293	.168	.054	.280	.162	.052	.269	.156	.050		
2.0	.295	.162	.050	.288	.159	.049	.277	.154	.048	.266	.149	.047	.256	.145	.046		
3.0	.273	.145	.043	.267	.143	.043	.257	.139	.042	.247	.135	.041	.238	.132	.041		
4.0	.251	.131	.038	.246	.129	.038	.237	.126	.038	.228	.123	.037	.220	.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	.104	.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	.116	.106	.093	.081	.061	.054	.047	.020	.017	.015		
2.0	.174	.133	.099	.149	.115	.085	.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	.051	.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	.066	.030	.082	.047	.021	.047	.027	.013	.015	.009	.004		
8.0	.131	.071	.030	.112	.062	.026	.078	.043	.018	.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: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%_4000:

UGR(Unified Glare Rating) Table

Test:U:119.95V I:0.1966A P:23.297W PF:0.9881 Freq:60.01Hz Lamp Flux:3094.56x1 lm											
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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		20.7	22.2	21.0	22.4	22.7	21.6	23.1	21.8	23.3	23.5
3H		22.2	23.6	22.5	23.8	24.1	23.2	24.7	23.5	24.9	25.1
4H		22.8	24.1	23.1	24.4	24.6	23.9	25.3	24.2	25.5	25.8
6H		23.2	24.5	23.5	24.7	25.0	24.4	25.6	24.7	25.9	26.2
8H		23.3	24.5	23.7	24.8	25.1	24.5	25.7	24.8	26.0	26.3
12H		23.4	24.6	23.7	24.9	25.2	24.5	25.7	24.9	26.0	26.3
4H 2H		21.4	22.8	21.7	23.0	23.3	22.1	23.4	22.4	23.7	24.0
3H		23.1	24.3	23.4	24.6	24.9	24.0	25.1	24.3	25.4	25.8
4H		23.8	24.9	24.2	25.2	25.5	24.8	25.8	25.1	26.2	26.5
6H		24.3	25.3	24.7	25.6	26.0	25.3	26.3	25.7	26.7	27.0
8H		24.5	25.4	24.9	25.8	26.1	25.5	26.4	25.9	26.8	27.2
12H		24.6	25.4	25.0	25.8	26.2	25.6	26.4	26.1	26.8	27.2
8H 4H		24.1	25.0	24.5	25.4	25.8	25.0	25.9	25.4	26.2	26.6
6H		24.8	25.5	25.2	25.9	26.4	25.7	26.5	26.2	26.9	27.3
8H		25.0	25.7	25.5	26.1	26.6	26.0	26.6	26.4	27.1	27.5
12H		25.2	25.8	25.7	26.2	26.7	26.1	26.7	26.6	27.2	27.6
12H 4H		24.1	25.0	24.6	25.4	25.8	25.0	25.8	25.4	26.2	26.6
6H		24.9	25.5	25.3	26.0	26.4	25.7	26.4	26.2	26.8	27.3
8H		25.2	25.7	25.6	26.2	26.7	26.0	26.6	26.5	27.1	27.5
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, 3095 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.9)
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%_4000K

UTILIZATION FACTORS TABLE

Test:U:119.95V I:0.1966A P:23.297W PF:0.9881 Freq:60.01Hz Lamp Flux:3094.56x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

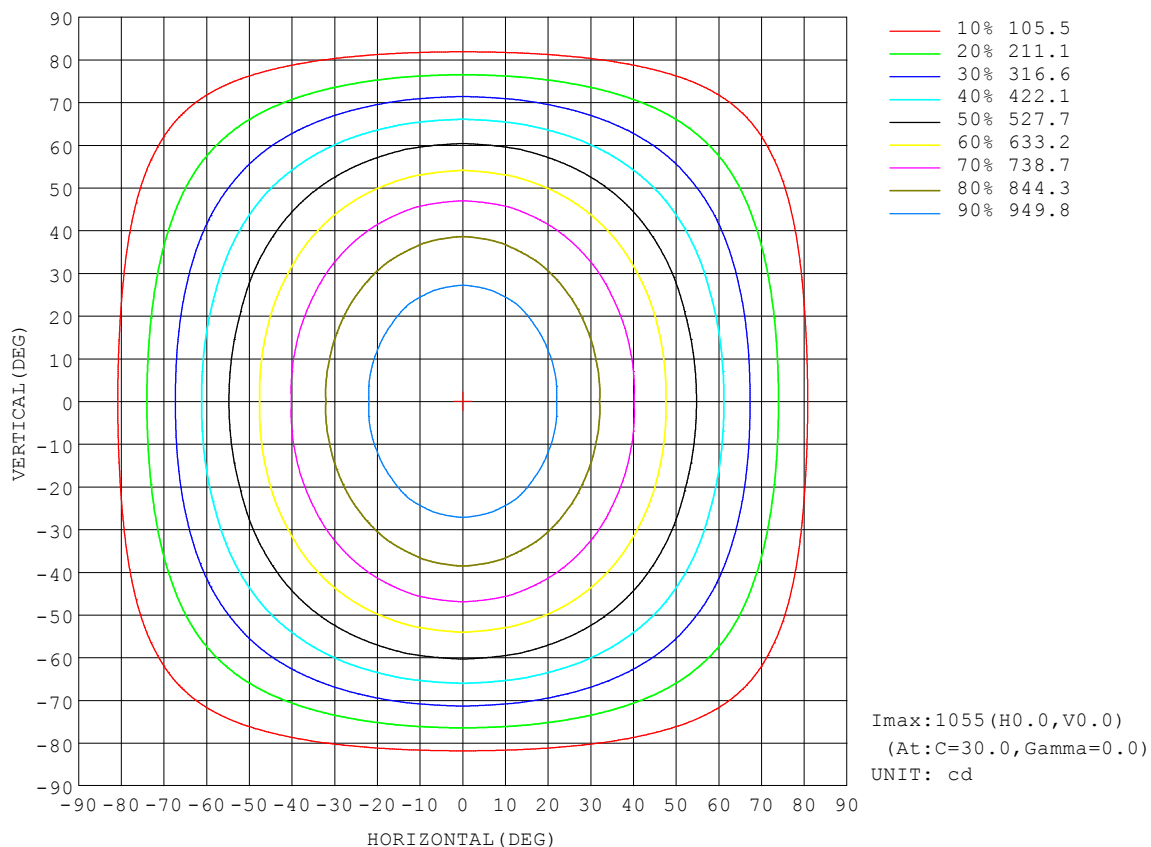
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	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	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: 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%_4000K

ISOCANDELA DIAGRAM

Test:U:119.95V I:0.1966A P:23.297W PF:0.9881 Freq:60.01Hz Lamp Flux:3094.56x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

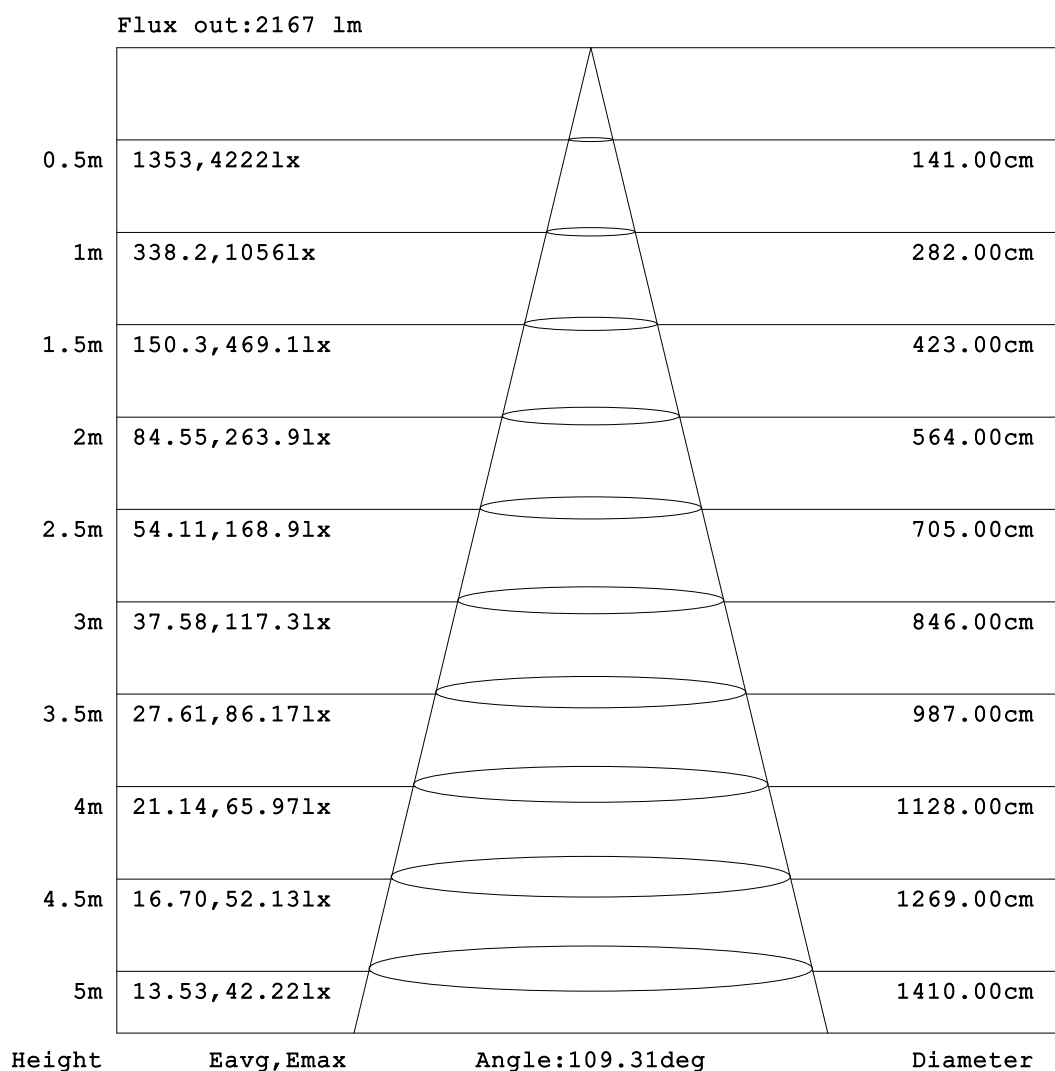


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1°C
Operators:Alan Wang
Test Date:2026-04-29

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%_4000K

AAI Figure

Test:U:119.95V I:0.1966A P:23.297W PF:0.9881 Freq:60.01Hz Lamp Flux:3094.56x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:



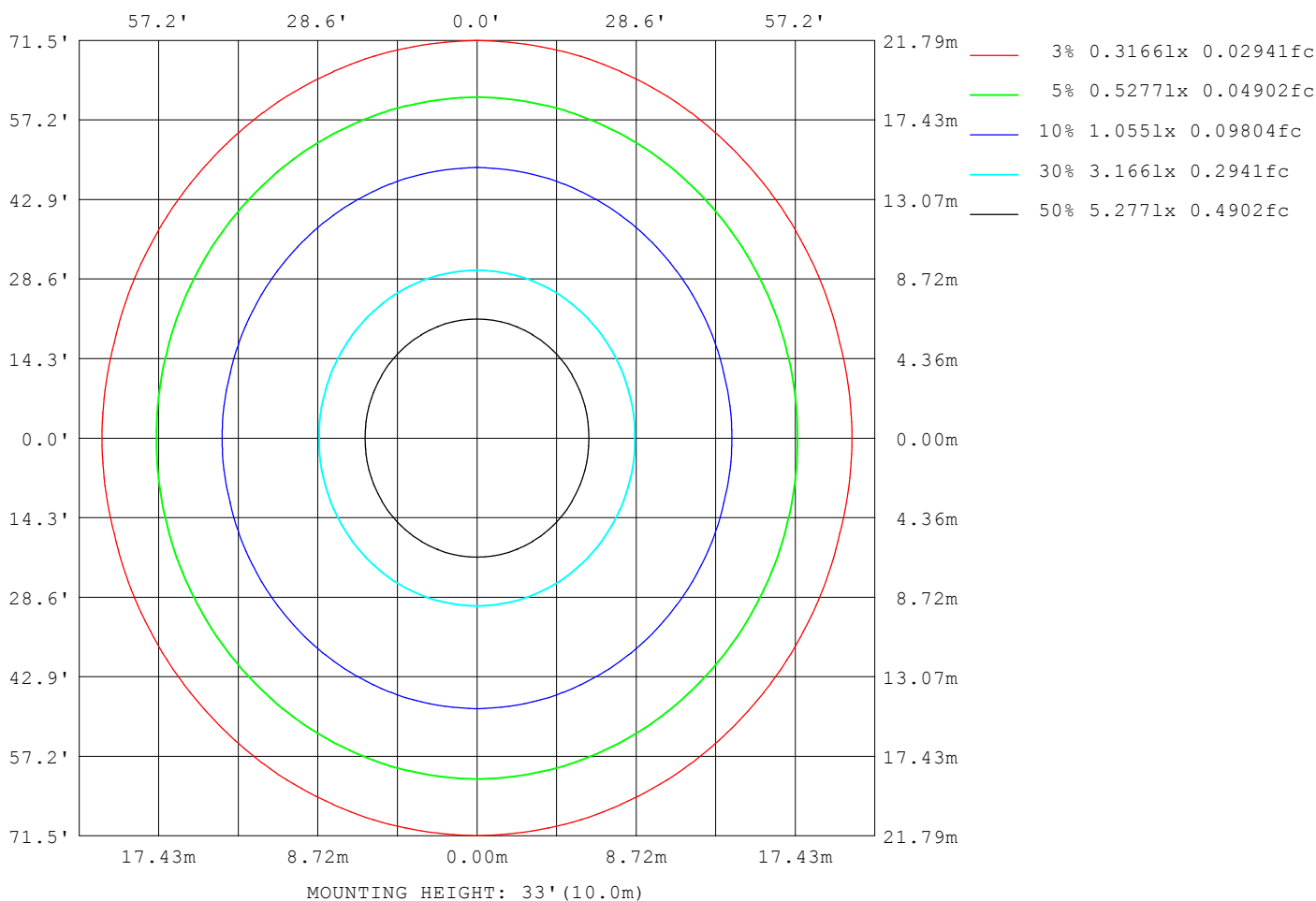
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

ISOLUX DIAGRAM

Test:U:119.95V I:0.1966A P:23.297W PF:0.9881 Freq:60.01Hz Lamp Flux:3094.56x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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: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%_4000K

LED Avg.L Report

Test:U:119.95V I:0.1966A P:23.297W PF:0.9881 Freq:60.01Hz Lamp Flux:3094.56x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

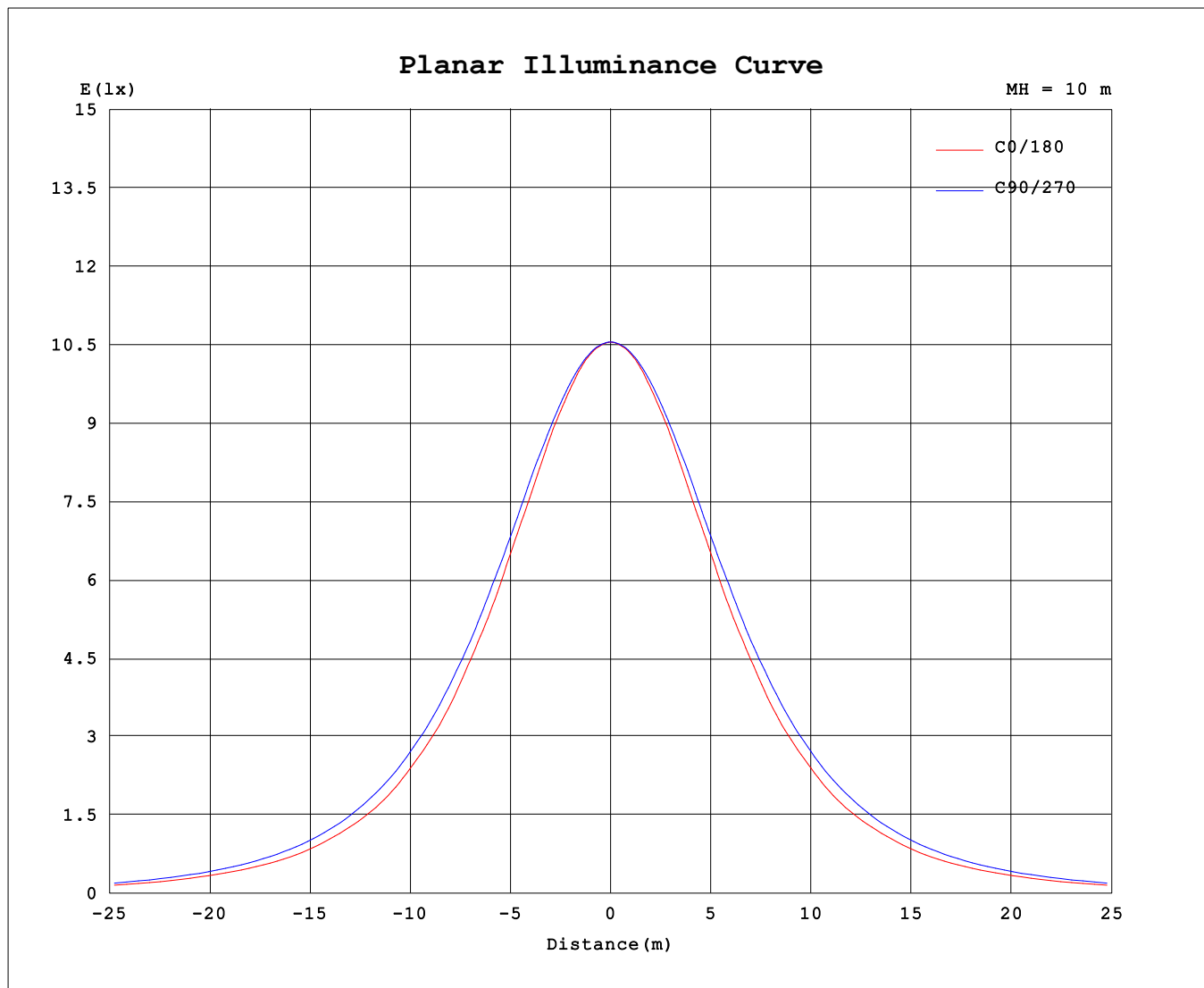
AvgL	cd/m2
L_0~180 (65) av	9162
L_0~180 (75) av	8037
L_0~180 (85) av	5594
L_90~270 (65) av	11294
L_90~270 (75) av	10074
L_90~270 (85) av	6451
L_45 (65) av	10061
L_45 (75) av	8917
L_45 (85) av	6144

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%_4000K

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%_4000:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.95V I:0.1966A P:23.297W PF:0.9881 Freq:60.01Hz Lamp Flux:3094.56x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%-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	1055	1056	1056	1055	1055	1055	1055	1055	1055	1055	1056	1056	1055	1056	1056	1055	1055	1055	1055
5	1050	1050	1050	1051	1051	1052	1052	1052	1051	1051	1050	1050	1050	1050	1050	1051	1051	1052	1052
10	1032	1034	1035	1037	1039	1041	1041	1041	1039	1037	1035	1034	1032	1034	1035	1037	1039	1041	1041
15	1007	1007	1010	1014	1019	1022	1024	1022	1019	1014	1010	1007	1007	1007	1010	1014	1019	1022	1024
20	967	971	976	984	991	997	1000	997	991	984	976	971	967	971	976	984	991	997	1000
25	925	925	934	944	957	964	967	964	957	944	934	925	925	925	934	944	957	964	967
30	867	874	883	899	911	924	929	924	911	899	883	874	867	874	883	899	911	924	929
35	813	813	826	843	863	875	880	875	863	843	826	813	813	813	826	843	863	875	880
40	741	750	762	783	803	822	827	822	803	783	762	750	741	750	762	783	803	822	827
45	677	678	695	715	740	759	766	759	740	715	695	678	677	678	695	715	740	759	766
50	596	605	620	643	669	687	698	687	669	643	620	605	596	605	620	643	669	687	698
55	523	526	542	564	590	610	620	610	590	564	542	526	523	526	542	564	590	610	620
60	438	446	459	482	507	527	534	527	507	482	459	446	438	446	459	482	507	527	534
65	359	362	375	394	417	435	443	435	417	394	375	362	359	362	375	394	417	435	443
70	275	278	289	304	322	338	344	338	322	304	289	278	275	278	289	304	322	338	344
75	193	196	203	214	227	238	242	238	227	214	203	196	193	196	203	214	227	238	242
80	116	117	121	127	134	139	141	139	134	127	121	117	116	117	121	127	134	139	141
85	45.2	46.7	47.6	49.7	51.2	52.2	52.1	52.2	51.2	49.7	47.6	46.7	45.2	46.7	47.6	49.7	51.2	52.2	52.1
90	3.34	3.10	2.99	2.68	2.70	2.28	2.18	2.28	2.70	2.68	2.99	3.10	3.34	3.10	2.99	2.68	2.70	2.28	2.18
95	0.18	0.19	0.17	0.17	0.16	0.16	0.15	0.16	0.16	0.17	0.17	0.19	0.18	0.19	0.17	0.17	0.16	0.16	0.15
100	0.26	0.27	0.26	0.26	0.25	0.25	0.24	0.25	0.25	0.26	0.26	0.27	0.26	0.27	0.26	0.26	0.25	0.25	0.24
105	0.33	0.34	0.32	0.32	0.31	0.31	0.30	0.31	0.31	0.32	0.32	0.34	0.33	0.34	0.32	0.32	0.31	0.31	0.30
110	0.39	0.40	0.38	0.38	0.38	0.37	0.36	0.37	0.38	0.38	0.38	0.40	0.39	0.40	0.38	0.38	0.38	0.37	0.36
115	0.47	0.48	0.46	0.45	0.44	0.43	0.41	0.43	0.44	0.45	0.46	0.48	0.47	0.48	0.46	0.45	0.44	0.43	0.41
120	0.55	0.56	0.53	0.52	0.51	0.49	0.48	0.49	0.51	0.52	0.53	0.56	0.55	0.56	0.53	0.52	0.51	0.49	0.48
125	0.65	0.65	0.62	0.60	0.59	0.59	0.58	0.59	0.59	0.60	0.62	0.65	0.65	0.65	0.62	0.60	0.59	0.59	0.58
130	0.83	0.83	0.78	0.76	0.75	0.75	0.74	0.75	0.75	0.76	0.78	0.83	0.83	0.83	0.78	0.76	0.75	0.75	0.74
135	1.03	1.02	0.97	0.95	0.94	0.93	0.91	0.93	0.94	0.95	0.97	1.02	1.03	1.02	0.97	0.95	0.94	0.93	0.91
140	1.29	1.28	1.23	1.21	1.18	1.18	1.15	1.18	1.18	1.21	1.23	1.28	1.29	1.28	1.23	1.21	1.18	1.18	1.15
145	1.58	1.57	1.53	1.48	1.44	1.42	1.40	1.42	1.44	1.48	1.53	1.57	1.58	1.57	1.53	1.48	1.44	1.42	1.40
150	1.86	1.82	1.77	1.70	1.66	1.64	1.63	1.64	1.66	1.70	1.77	1.82	1.86	1.82	1.77	1.70	1.66	1.64	1.63
155	2.02	1.98	1.92	1.86	1.78	1.79	1.77	1.79	1.78	1.86	1.92	1.98	2.02	1.98	1.92	1.86	1.78	1.79	1.77
160	2.08	2.04	1.97	1.90	1.86	1.84	1.83	1.84	1.86	1.90	1.97	2.04	2.08	2.04	1.97	1.90	1.86	1.84	1.83
165	2.06	2.03	1.96	1.89	1.86	1.85	1.84	1.85	1.86	1.89	1.96	2.03	2.06	2.03	1.96	1.89	1.86	1.85	1.84
170	2.05	2.03	1.97	1.91	1.88	1.86	1.85	1.86	1.88	1.91	1.97	2.03	2.05	2.03	1.97	1.91	1.88	1.86	1.85
175	2.03	2.04	1.98	1.93	1.90	1.88	1.87	1.88	1.90	1.93	1.98	2.04	2.03	2.04	1.98	1.93	1.90	1.88	1.87
180	2.12	2.07	2.00	1.96	1.93	1.91	1.90	1.91	1.93	1.96	2.00	2.07	2.12	2.07	2.00	1.96	1.93	1.91	1.90

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%-4000K

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.95V I:0.1966A P:23.297W PF:0.9881 Freq:60.01Hz Lamp Flux:3094.56x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_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	1055	1055	1055	1056	1056														
5	1052	1051	1051	1050	1050														
10	1041	1039	1037	1035	1034														
15	1022	1019	1014	1010	1007														
20	997	991	984	976	971														
25	964	957	944	934	925														
30	924	911	899	883	874														
35	875	863	843	826	813														
40	822	803	783	762	750														
45	759	740	715	695	678														
50	687	669	643	620	605														
55	610	590	564	542	526														
60	527	507	482	459	446														
65	435	417	394	375	362														
70	338	322	304	289	278														
75	238	227	214	203	196														
80	139	134	127	121	117														
85	52.2	51.2	49.7	47.6	46.7														
90	2.28	2.70	2.68	2.99	3.10														
95	0.16	0.16	0.17	0.17	0.19														
100	0.25	0.25	0.26	0.26	0.27														
105	0.31	0.31	0.32	0.32	0.34														
110	0.37	0.38	0.38	0.38	0.40														
115	0.43	0.44	0.45	0.46	0.48														
120	0.49	0.51	0.52	0.53	0.56														
125	0.59	0.59	0.60	0.62	0.65														
130	0.75	0.75	0.76	0.78	0.83														
135	0.93	0.94	0.95	0.97	1.02														
140	1.18	1.18	1.21	1.23	1.28														
145	1.42	1.44	1.48	1.53	1.57														
150	1.64	1.66	1.70	1.77	1.82														
155	1.79	1.78	1.86	1.92	1.98														
160	1.84	1.86	1.90	1.97	2.04														
165	1.85	1.86	1.89	1.96	2.03														
170	1.86	1.88	1.91	1.97	2.03														
175	1.88	1.90	1.93	1.98	2.04														
180	1.91	1.93	1.96	2.00	2.07														

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%_4000: