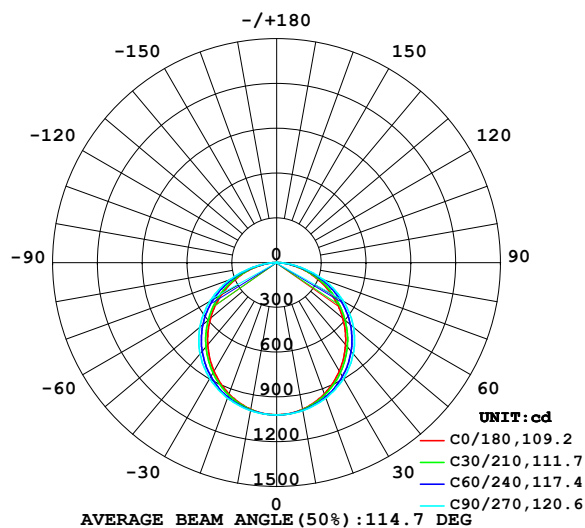


LUMINAIRE PHOTOMETRIC TEST REPORT

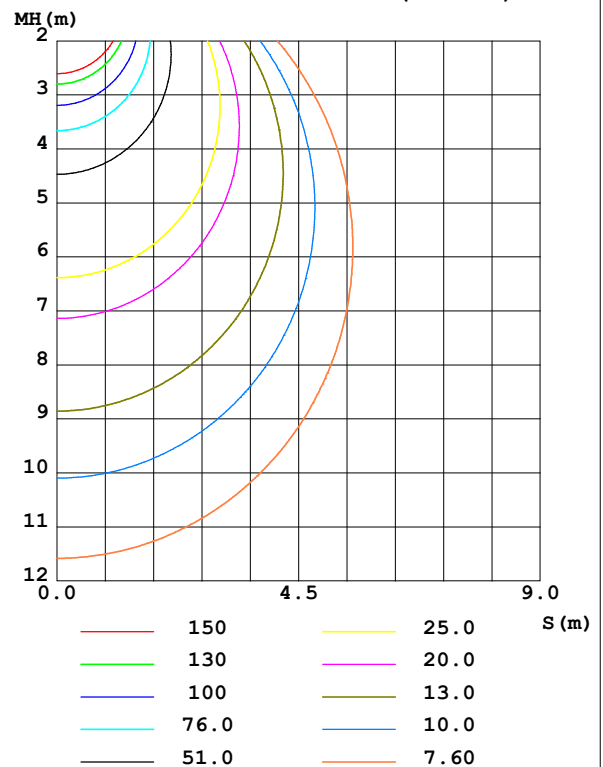
Test:U:119.96V I:0.1956A P:23.177W PF:0.9880 Freq:60.01Hz Lamp Flux:2991.76x1 lm		
NAME: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ETi Solid State lighting, Inc.	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 129.09 lm/W
MODEL		I _{max} (cd)	1021	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)	2991.8	η UP,DN(C0-180)	0.1,49.9	
NOMINAL FLUX(lm)	2991.76	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%_3000K

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

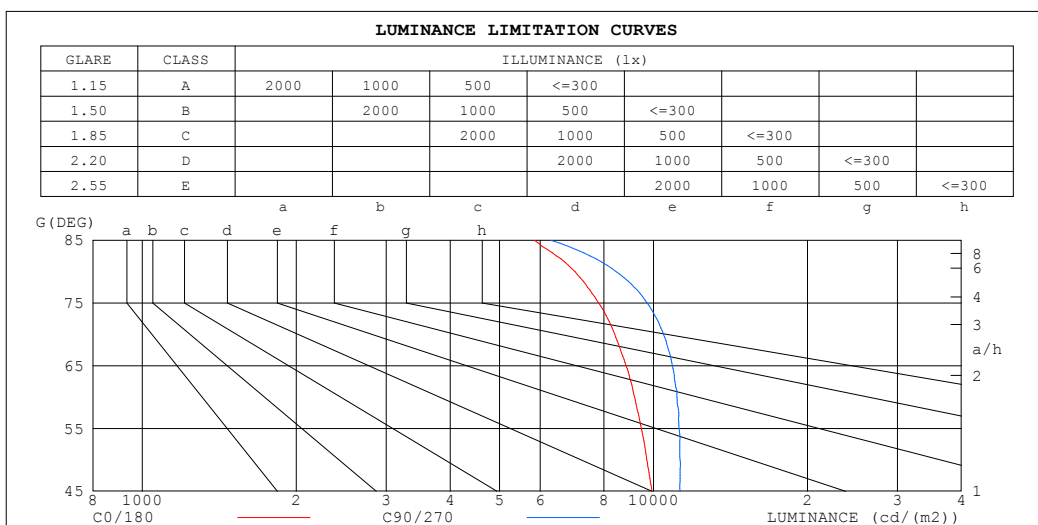
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	997.6	1003	1006	1003	997.6	1003	1006	1003	0- 10	96.54	96.54	3.23,3.23
20	935.4	950.5	966.4	950.5	935.4	950.5	966.4	950.5	10- 20	276.8	373.3	12.5,12.5
30	839.7	867.9	897.1	867.9	839.7	867.9	897.1	867.9	20- 30	420.8	794.1	26.5,26.5
40	718.4	756.1	798.0	756.1	718.4	756.1	798.0	756.1	30- 40	510.3	1304	43.6,43.6
50	578.4	621.3	671.5	621.3	578.4	621.3	671.5	621.3	40- 50	534.5	1839	61.5,61.5
60	425.5	464.9	514.9	464.9	425.5	464.9	514.9	464.9	50- 60	489.3	2328	77.8,77.8
70	266.2	294.1	331.7	294.1	266.2	294.1	331.7	294.1	60- 70	379.1	2707	90.5,90.5
80	113.0	123.0	136.1	123.0	113.0	123.0	136.1	123.0	70- 80	220.4	2928	97.9,97.9
90	8.137	5.280	3.651	5.280	8.137	5.280	3.651	5.280	80- 90	58.78	2986	99.8,99.8
100	0.2429	0.2277	0.2093	0.2277	0.2429	0.2277	0.2093	0.2277	90-100	0.9501	2987	99.9,99.9
110	0.3686	0.3601	0.3413	0.3601	0.3686	0.3601	0.3413	0.3601	100-110	0.3161	2988	99.9,99.9
120	0.5210	0.4967	0.4712	0.4967	0.5210	0.4967	0.4712	0.4967	110-120	0.4247	2988	99.9,99.9
130	0.7911	0.7155	0.6957	0.7155	0.7911	0.7155	0.6957	0.7155	120-130	0.5311	2989	99.9,99.9
140	1.241	1.147	1.097	1.147	1.241	1.147	1.097	1.147	130-140	0.7120	2989	99.9,99.9
150	1.786	1.628	1.556	1.628	1.786	1.628	1.556	1.628	140-150	0.8769	2990	99.9,99.9
160	2.001	1.827	1.761	1.827	2.001	1.827	1.761	1.827	150-160	0.8219	2991	100,100
170	1.977	1.856	1.801	1.856	1.977	1.856	1.801	1.856	160-170	0.5283	2992	100,100
180	2.034	1.892	1.828	1.892	2.034	1.892	1.828	1.892	170-180	0.1803	2992	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%_3000:

LUMINANCE LIMITATION CURVES

Test:U:119.96V I:0.1956A P:23.177W PF:0.9880 Freq:60.01Hz Lamp Flux:2991.76x1 lm		
NAME: VLTG-3S-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:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5851	6291
80	7021	8452
75	7812	9717
70	8393	10459
65	8836	10881
60	9178	11106
55	9468	11220
50	9705	11267
45	9928	11262

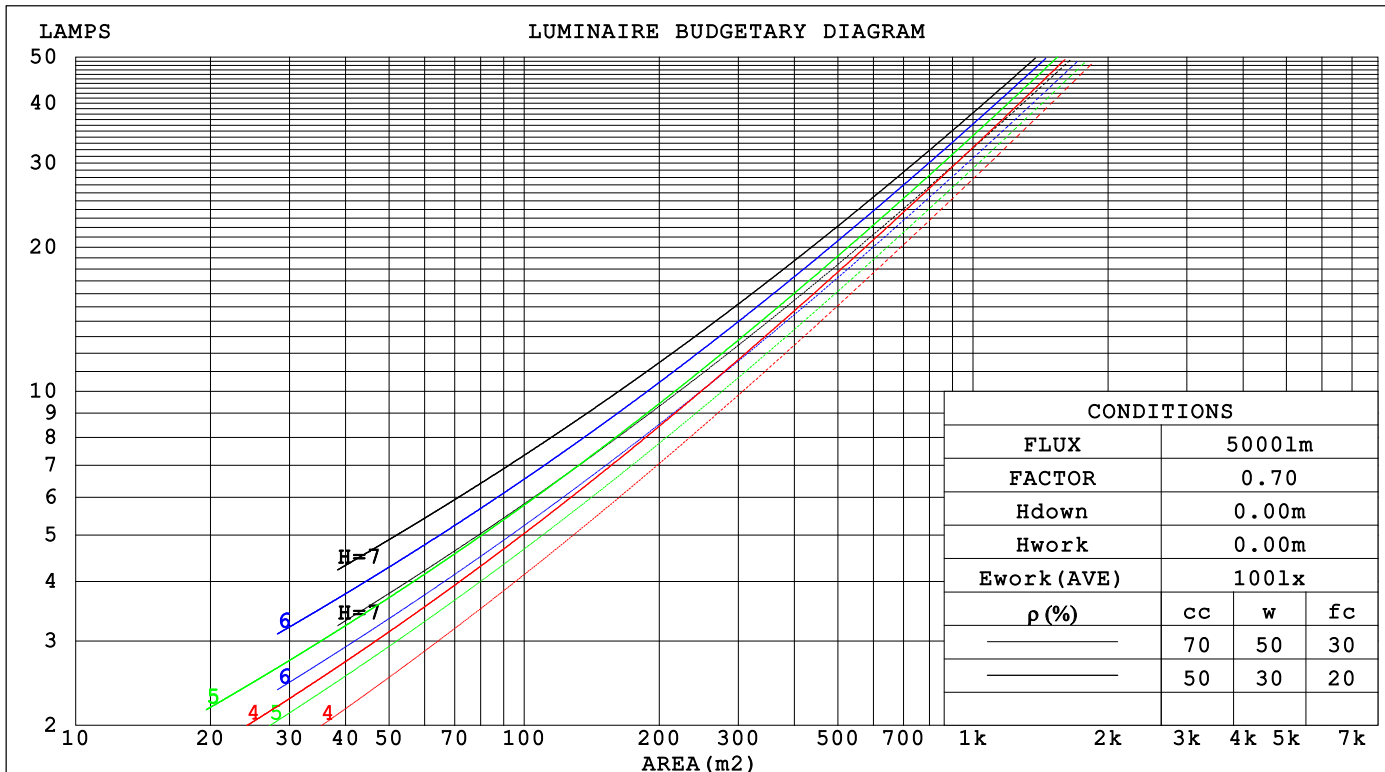
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1°C
Operators:Alan Wang
Test Date:2026-04-29

γ Range: 0 - 180DEG
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Humidity:49.3%
Test Distance:1.900m [K=1.0924]
Remarks: VLTG-3S-4-WH-VL3-VT4-DW-UNV-D01-T_60%_3000K

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.96V I:0.1956A P:23.177W PF:0.9880 Freq:60.01Hz Lamp Flux:2991.76x1 lm		
NAME: VLTG-3S-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: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%_3000K

WEC AND CCEC

Test:U:119.96V I:0.1956A P:23.177W PF:0.9880 Freq:60.01Hz Lamp Flux:2991.76x1 lm		
NAME: VLTG-3S-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	.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	.089	.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	.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	.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%_3000K

UGR(Unified Glare Rating) Table

Test:U:119.96V I:0.1956A P:23.177W PF:0.9880 Freq:60.01Hz Lamp Flux:2991.76x1 lm											
NAME: VLTG-3S-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	20.6	22.1	20.9	22.3	22.5	21.4	23.0	21.7	23.2	23.4
	3H	22.1	23.5	22.4	23.7	24.0	23.1	24.5	23.4	24.8	25.0
	4H	22.7	24.0	23.0	24.3	24.5	23.8	25.1	24.1	25.4	25.6
	6H	23.1	24.4	23.4	24.6	24.9	24.2	25.5	24.6	25.8	26.1
	8H	23.2	24.4	23.6	24.7	25.0	24.4	25.6	24.7	25.9	26.2
	12H	23.3	24.5	23.6	24.8	25.1	24.4	25.6	24.8	25.9	26.2
4H	2H	21.3	22.7	21.6	22.9	23.2	22.0	23.3	22.3	23.6	23.8
	3H	23.0	24.1	23.3	24.4	24.8	23.8	25.0	24.2	25.3	25.6
	4H	23.7	24.8	24.0	25.1	25.4	24.6	25.7	25.0	26.0	26.4
	6H	24.2	25.2	24.6	25.5	25.9	25.2	26.2	25.6	26.5	26.9
	8H	24.4	25.3	24.8	25.7	26.0	25.4	26.3	25.8	26.7	27.1
	12H	24.5	25.3	24.9	25.7	26.1	25.5	26.3	25.9	26.7	27.1
8H	4H	24.0	24.9	24.4	25.3	25.7	24.8	25.7	25.3	26.1	26.5
	6H	24.7	25.4	25.1	25.8	26.3	25.6	26.3	26.0	26.7	27.2
	8H	24.9	25.6	25.4	26.0	26.5	25.8	26.5	26.3	26.9	27.4
	12H	25.1	25.7	25.6	26.1	26.6	26.0	26.6	26.5	27.0	27.5
12H	4H	24.0	24.8	24.5	25.2	25.6	24.8	25.7	25.3	26.1	26.5
	6H	24.8	25.4	25.2	25.8	26.3	25.6	26.3	26.1	26.7	27.2
	8H	25.1	25.6	25.5	26.1	26.6	25.9	26.5	26.4	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, 2992 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.8)
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%_3000K

UTILIZATION FACTORS TABLE

Test:U:119.96V I:0.1956A P:23.177W PF:0.9880 Freq:60.01Hz Lamp Flux:2991.76x1 lm		
NAME: VLTG-3S-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:

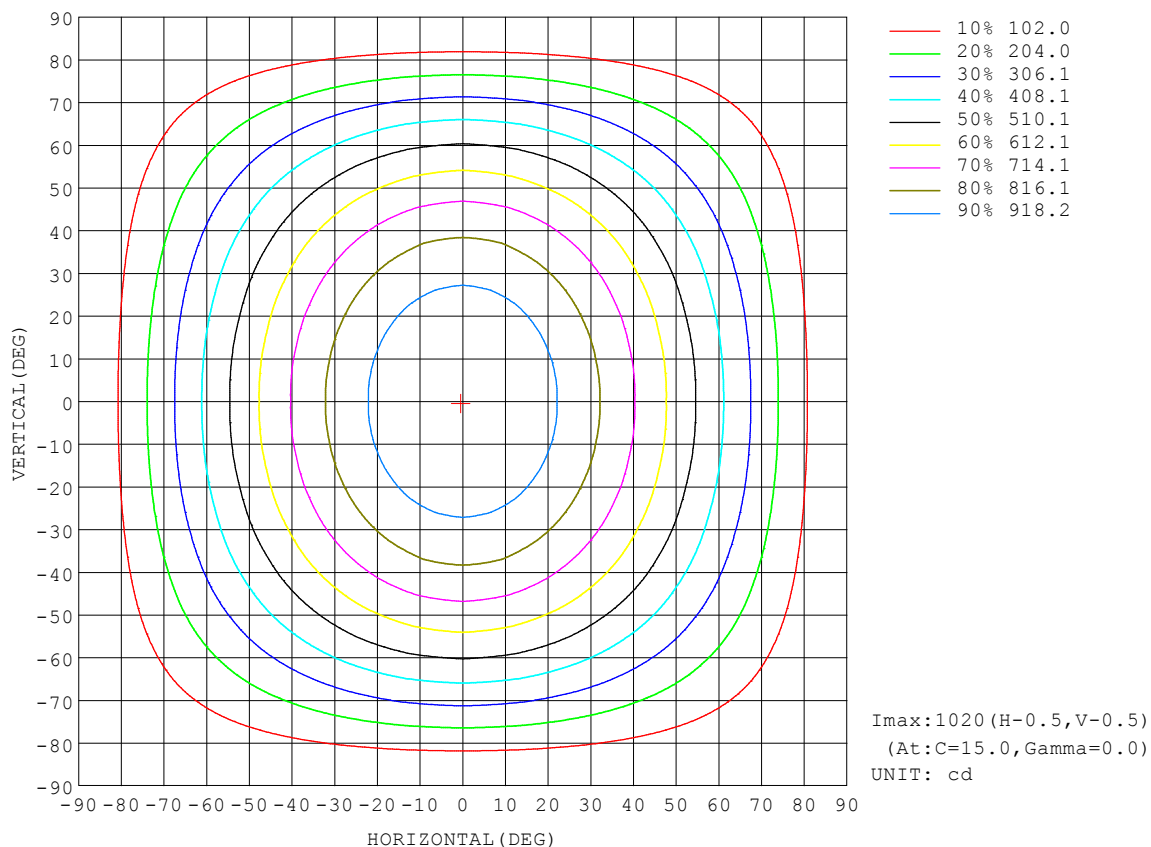
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	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	98	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	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: 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%_3000K

ISOCANDELA DIAGRAM

Test:U:119.96V I:0.1956A P:23.177W PF:0.9880 Freq:60.01Hz Lamp Flux:2991.76x1 lm		
NAME: VLTG-3S-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:

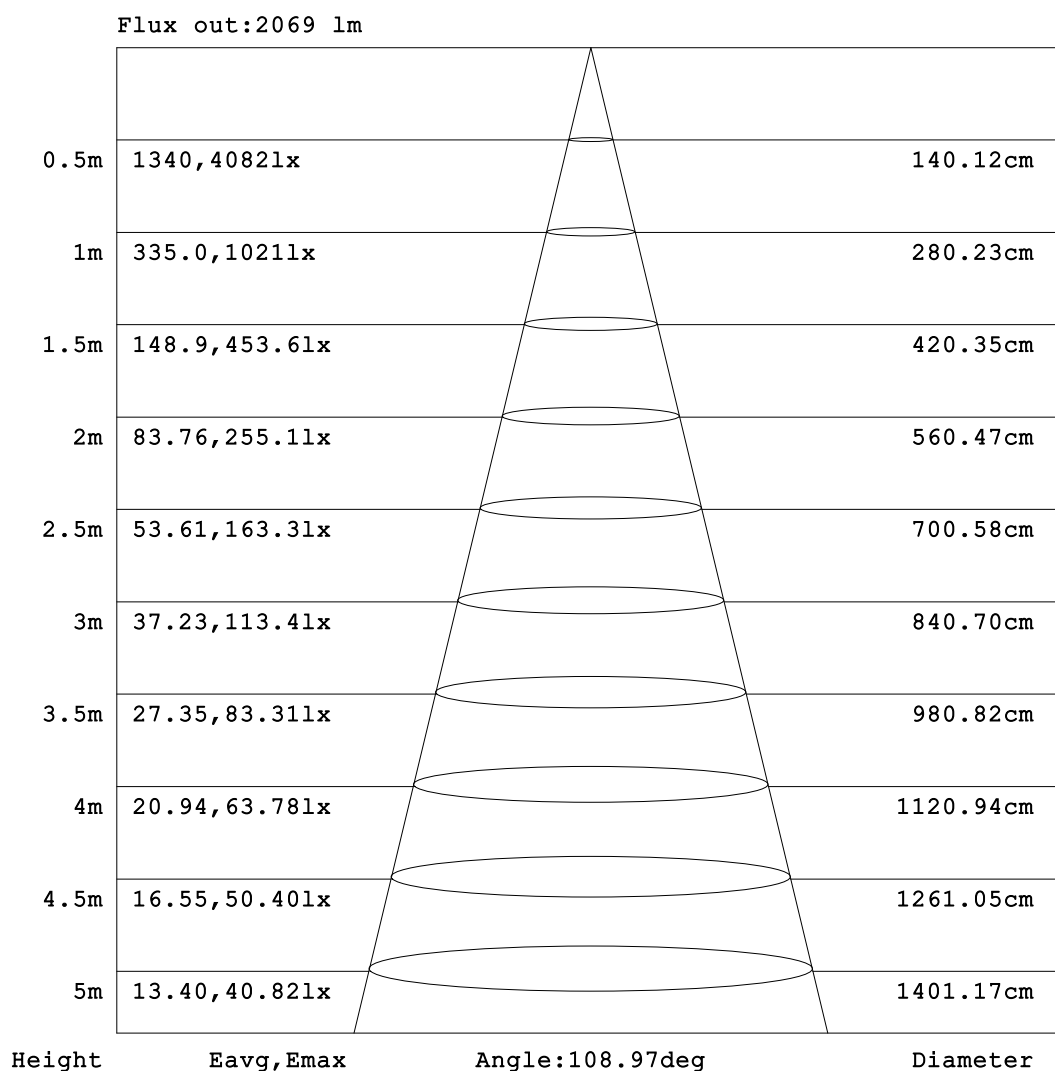


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:26.1℃
Operators:Alan Wang
Test Date:2026-04-29

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%_3000K

AAI Figure

Test:U:119.96V I:0.1956A P:23.177W PF:0.9880 Freq:60.01Hz Lamp Flux:2991.76x1 lm		
NAME: VLTG-3S-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:



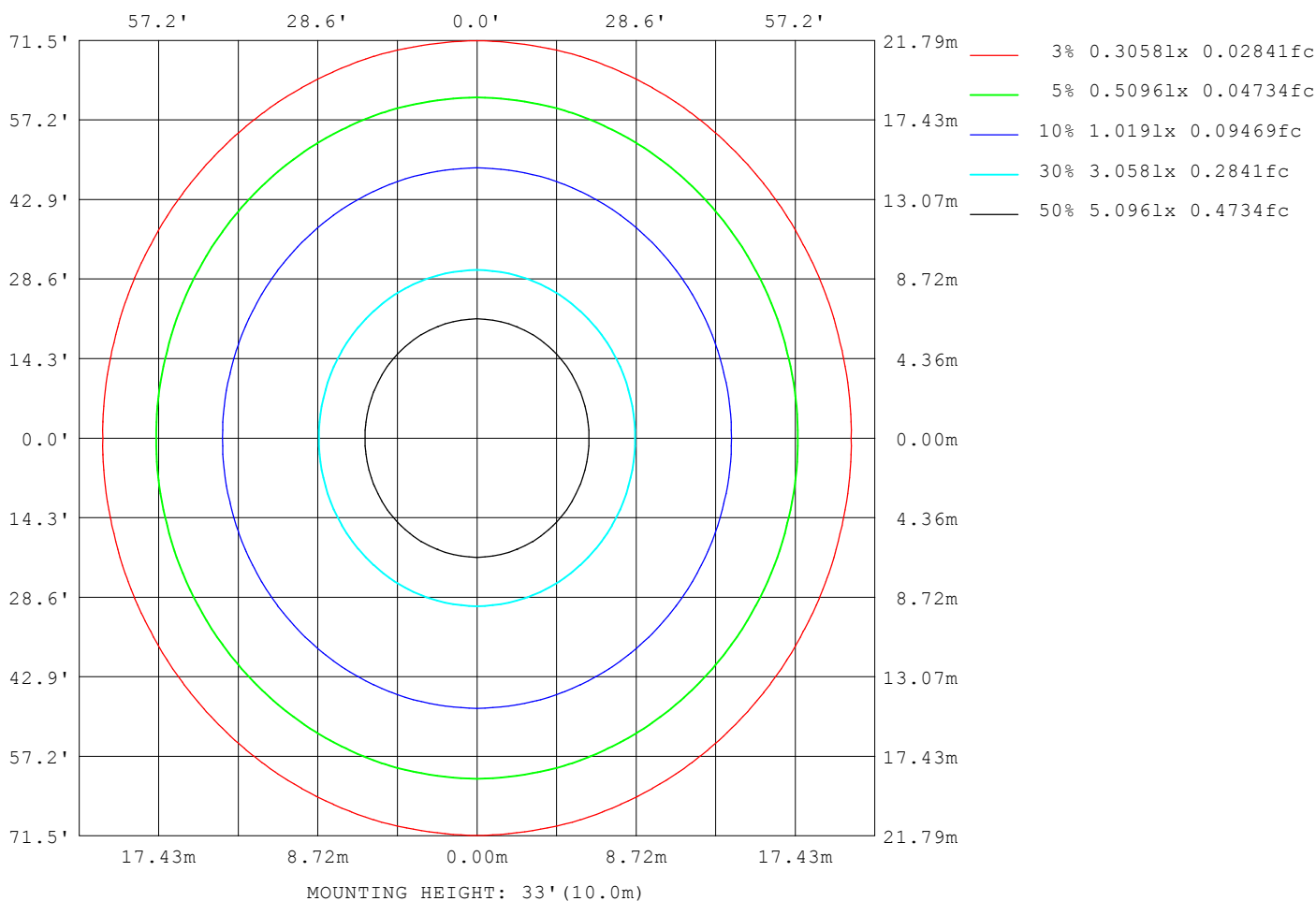
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

ISOLUX DIAGRAM

Test:U:119.96V I:0.1956A P:23.177W PF:0.9880 Freq:60.01Hz Lamp Flux:2991.76x1 lm		
NAME: VLTG-3S-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: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%_3000K

LED Avg.L Report

Test:U:119.96V I:0.1956A P:23.177W PF:0.9880 Freq:60.01Hz Lamp Flux:2991.76x1 lm		
NAME: VLTG-3S-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:

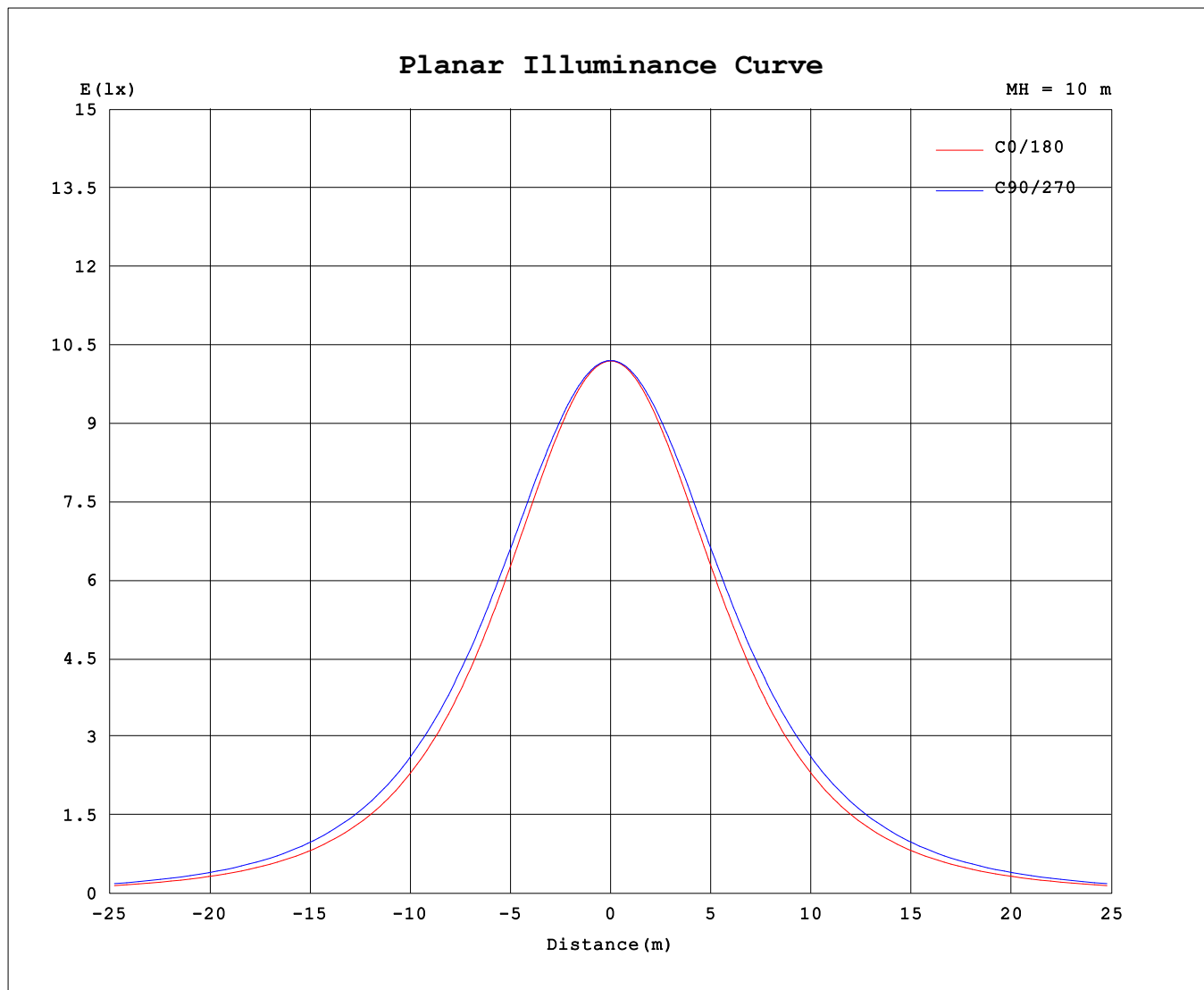
AvgL	cd/m2
L_0~180 (65) av	8836
L_0~180 (75) av	7812
L_0~180 (85) av	5851
L_90~270 (65) av	10881
L_90~270 (75) av	9717
L_90~270 (85) av	6291
L_45 (65) av	9718
L_45 (75) av	8619
L_45 (85) av	6089

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%_3000:

Planar Illuminance Curve



C Range: 0 - 360DEG
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Test Speed: MEDIUM
Temperature: 26.1°C
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γ Range: 0 - 180DEG
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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.96V I:0.1956A P:23.177W PF:0.9880 Freq:60.01Hz Lamp Flux:2991.76x1 lm		
NAME: VLTG-3S-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	1019	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1021	1019	1021	1020	1020	1020	1020	1020
5	1014	1015	1015	1016	1016	1017	1017	1017	1016	1016	1015	1015	1014	1015	1015	1016	1016	1017	1017
10	998	999	1001	1003	1005	1006	1006	1006	1005	1003	1001	999	998	999	1001	1003	1005	1006	1006
15	971	974	976	981	985	988	989	988	985	981	976	974	971	974	976	981	985	988	989
20	935	938	943	950	957	964	966	964	957	950	943	938	935	938	943	950	957	964	966
25	892	895	902	912	924	931	934	931	924	912	902	895	892	895	902	912	924	931	934
30	840	844	853	868	881	894	897	894	881	868	853	844	840	844	853	868	881	894	897
35	782	787	798	815	833	845	850	845	833	815	798	787	782	787	798	815	833	845	850
40	718	724	737	756	776	792	798	792	776	756	737	724	718	724	737	756	776	792	798
45	651	656	670	691	714	733	738	733	714	691	670	656	651	656	670	691	714	733	738
50	578	584	599	621	645	665	672	665	645	621	599	584	578	584	599	621	645	665	672
55	504	508	523	545	570	591	597	591	570	545	523	508	504	508	523	545	570	591	597
60	425	430	444	465	489	508	515	508	489	465	444	430	425	430	444	465	489	508	515
65	346	350	362	381	402	420	426	420	402	381	362	350	346	350	362	381	402	420	426
70	266	269	279	294	311	326	332	326	311	294	279	269	266	269	279	294	311	326	332
75	187	189	196	207	219	229	233	229	219	207	196	189	187	189	196	207	219	229	233
80	113	113	117	123	129	134	136	134	129	123	117	113	113	113	117	123	129	134	136
85	47.3	46.2	47.7	49.2	51.1	51.3	50.8	51.3	51.1	49.2	47.7	46.2	47.3	46.2	47.7	49.2	51.1	51.3	50.8
90	8.14	5.38	6.24	5.28	5.49	4.35	3.65	4.35	5.49	5.28	6.24	5.38	8.14	5.38	6.24	5.28	5.49	4.35	3.65
95	0.19	0.17	0.16	0.15	0.16	0.16	0.14	0.16	0.16	0.15	0.16	0.17	0.19	0.17	0.16	0.15	0.16	0.16	0.14
100	0.24	0.25	0.23	0.23	0.22	0.21	0.21	0.21	0.22	0.23	0.23	0.25	0.24	0.25	0.23	0.23	0.22	0.21	0.21
105	0.31	0.32	0.30	0.30	0.30	0.29	0.28	0.29	0.30	0.30	0.30	0.32	0.31	0.32	0.30	0.30	0.30	0.29	0.28
110	0.37	0.38	0.36	0.36	0.35	0.35	0.34	0.35	0.35	0.36	0.36	0.38	0.37	0.38	0.36	0.36	0.35	0.35	0.34
115	0.44	0.45	0.43	0.43	0.42	0.41	0.41	0.41	0.42	0.43	0.43	0.45	0.44	0.45	0.43	0.43	0.42	0.41	0.41
120	0.52	0.53	0.51	0.50	0.49	0.47	0.47	0.47	0.49	0.50	0.51	0.53	0.52	0.53	0.51	0.50	0.49	0.47	0.47
125	0.62	0.62	0.59	0.57	0.56	0.56	0.56	0.56	0.56	0.57	0.59	0.62	0.62	0.62	0.59	0.57	0.56	0.56	0.56
130	0.79	0.78	0.74	0.72	0.71	0.71	0.70	0.71	0.71	0.72	0.74	0.78	0.79	0.78	0.74	0.72	0.71	0.71	0.70
135	0.98	0.97	0.92	0.89	0.88	0.88	0.87	0.88	0.88	0.89	0.92	0.97	0.98	0.97	0.92	0.89	0.88	0.88	0.87
140	1.24	1.22	1.17	1.15	1.11	1.11	1.10	1.11	1.11	1.15	1.17	1.22	1.24	1.22	1.17	1.15	1.11	1.11	1.10
145	1.52	1.49	1.45	1.40	1.38	1.36	1.34	1.36	1.38	1.40	1.45	1.49	1.52	1.49	1.45	1.40	1.38	1.36	1.34
150	1.79	1.74	1.69	1.63	1.57	1.56	1.56	1.56	1.57	1.63	1.69	1.74	1.79	1.74	1.69	1.63	1.57	1.56	1.56
155	1.95	1.90	1.84	1.78	1.71	1.71	1.70	1.71	1.71	1.78	1.84	1.90	1.95	1.90	1.84	1.78	1.71	1.71	1.70
160	2.00	1.97	1.90	1.83	1.78	1.77	1.76	1.77	1.78	1.83	1.90	1.97	2.00	1.97	1.90	1.83	1.78	1.77	1.76
165	1.99	1.96	1.90	1.83	1.80	1.79	1.78	1.79	1.80	1.83	1.90	1.96	1.99	1.96	1.90	1.83	1.80	1.79	1.78
170	1.98	1.97	1.91	1.86	1.83	1.81	1.80	1.81	1.83	1.86	1.91	1.97	1.98	1.97	1.91	1.86	1.83	1.81	1.80
175	1.97	1.97	1.93	1.88	1.84	1.82	1.81	1.82	1.84	1.88	1.93	1.97	1.97	1.97	1.93	1.88	1.84	1.82	1.81
180	2.03	2.00	1.94	1.89	1.86	1.84	1.83	1.84	1.86	1.89	1.94	2.00	2.03	2.00	1.94	1.89	1.86	1.84	1.83

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%_3000K

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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	1020	1020	1020	1020	1021													
5	1017	1016	1016	1015	1015													
10	1006	1005	1003	1001	999													
15	988	985	981	976	974													
20	964	957	950	943	938													
25	931	924	912	902	895													
30	894	881	868	853	844													
35	845	833	815	798	787													
40	792	776	756	737	724													
45	733	714	691	670	656													
50	665	645	621	599	584													
55	591	570	545	523	508													
60	508	489	465	444	430													
65	420	402	381	362	350													
70	326	311	294	279	269													
75	229	219	207	196	189													
80	134	129	123	117	113													
85	51.3	51.1	49.2	47.7	46.2													
90	4.35	5.49	5.28	6.24	5.38													
95	0.16	0.16	0.15	0.16	0.17													
100	0.21	0.22	0.23	0.23	0.25													
105	0.29	0.30	0.30	0.30	0.32													
110	0.35	0.35	0.36	0.36	0.38													
115	0.41	0.42	0.43	0.43	0.45													
120	0.47	0.49	0.50	0.51	0.53													
125	0.56	0.56	0.57	0.59	0.62													
130	0.71	0.71	0.72	0.74	0.78													
135	0.88	0.88	0.89	0.92	0.97													
140	1.11	1.11	1.15	1.17	1.22													
145	1.36	1.38	1.40	1.45	1.49													
150	1.56	1.57	1.63	1.69	1.74													
155	1.71	1.71	1.78	1.84	1.90													
160	1.77	1.78	1.83	1.90	1.97													
165	1.79	1.80	1.83	1.90	1.96													
170	1.81	1.83	1.86	1.91	1.97													
175	1.82	1.84	1.88	1.93	1.97													
180	1.84	1.86	1.89	1.94	2.00													

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]
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