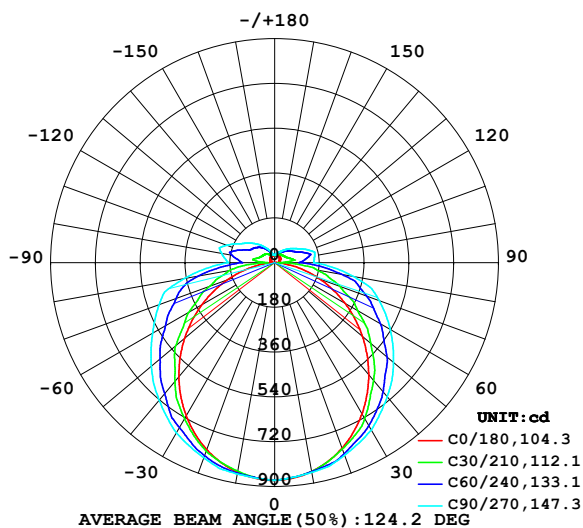


LUMINAIRE PHOTOMETRIC TEST REPORT

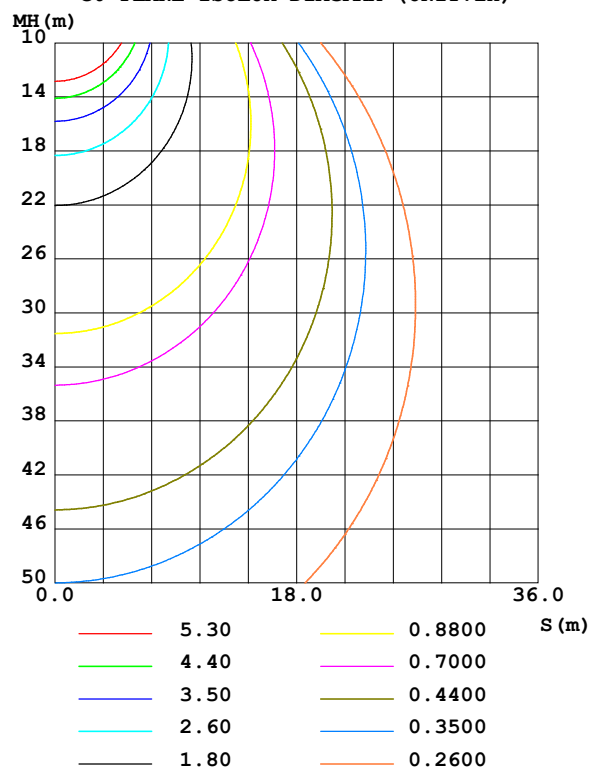
Test:U:120.19V I:0.2148A P:25.617W PF:0.9925 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3363.41x1 lm		
NAME: TS-ST4-2FT25W-TCP(EMS)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.29 lm/W			
MODEL	/	Imax(cd)	875.0	S/MH(C0/180)	1.21
NOMINAL POWER(W)	/	LOR(%)	100.0	S/MH(C90/270)	1.34
RATED VOLTAGE(V)	/	TOTAL FLUX(lm)	3363.4	η UP,DN(C0-180)	6.4,42.1
NOMINAL FLUX(lm)	3363.41	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	8.0,43.6
LAMPS INSIDE	1	η up(%)	14.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	/	η down(%)	85.6	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

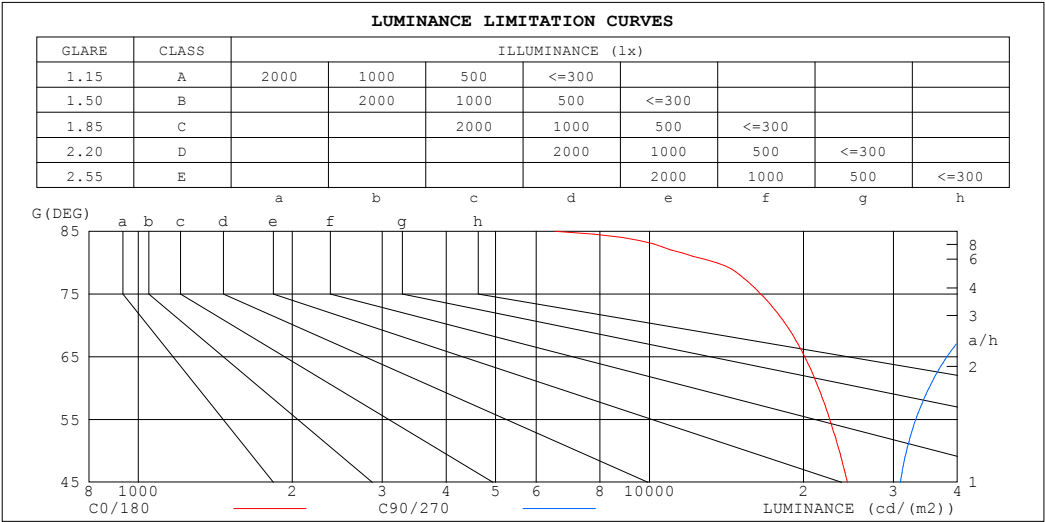
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	853.1	852.4	856.3	850.7	856.0	855.1	862.6	856.5	0- 10	82.39	82.39	2.45,2.45
20	793.3	813.2	823.6	806.6	799.3	815.0	834.5	820.5	10- 20	236.3	318.7	9.47,9.47
30	702.3	736.0	776.9	733.9	710.7	745.1	790.8	745.0	20- 30	359.2	677.8	20.2,20.2
40	588.8	647.4	704.0	650.6	599.0	664.2	722.2	657.1	30- 40	437.7	1116	33.2,33.2
50	460.9	542.0	624.0	545.9	472.2	561.2	647.2	551.8	40- 50	465.4	1581	47,47
60	326.7	437.5	536.9	438.1	337.3	455.0	566.0	447.6	50- 60	444.8	2026	60.2,60.2
70	193.2	337.8	448.0	332.0	201.4	351.9	494.5	351.0	60- 70	387.0	2413	71.7,71.7
80	71.56	237.7	321.5	226.5	76.42	254.8	367.8	260.0	70- 80	303.4	2716	80.8,80.8
90	3.879	53.09	157.3	48.75	3.760	78.72	186.1	74.01	80- 90	164.0	2880	85.6,85.6
100	17.88	120.6	163.5	109.8	14.20	144.7	216.6	151.8	90-100	105.1	2985	88.8,88.8
110	20.54	90.99	148.2	86.42	17.94	106.6	205.8	110.8	100-110	116.1	3101	92.2,92.2
120	23.43	70.78	111.4	69.07	22.76	86.75	153.7	88.39	110-120	85.28	3187	94.7,94.7
130	27.07	58.91	89.07	57.87	25.65	75.18	123.0	75.64	120-130	64.07	3251	96.6,96.6
140	29.13	49.82	69.81	49.02	27.95	63.67	94.53	63.42	130-140	47.47	3298	98.1,98.1
150	30.32	45.13	53.58	44.73	29.75	49.38	68.38	49.42	140-150	32.30	3330	99,99
160	30.98	40.24	45.00	40.01	30.83	34.73	45.85	35.13	150-160	19.74	3350	99.6,99.6
170	30.86	35.59	37.26	34.83	30.39	32.10	33.30	33.15	160-170	10.16	3360	99.9,99.9
180	30.34	30.34	30.34	30.34	30.71	30.71	30.71	30.71	170-180	3.101	3363	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2025-08-29

V(B) Range:-180 - 180DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:10.704m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.19V I:0.2148A P:25.617W PF:0.9925 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3363.41x1 lm		
NAME: TS-ST4-2FT25W-TCP(EMS)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6534	89985
80	13511	60704
75	16501	51109
70	18525	42948
65	20110	38193
60	21423	35204
55	22511	33173
50	23511	31829
45	24386	30951

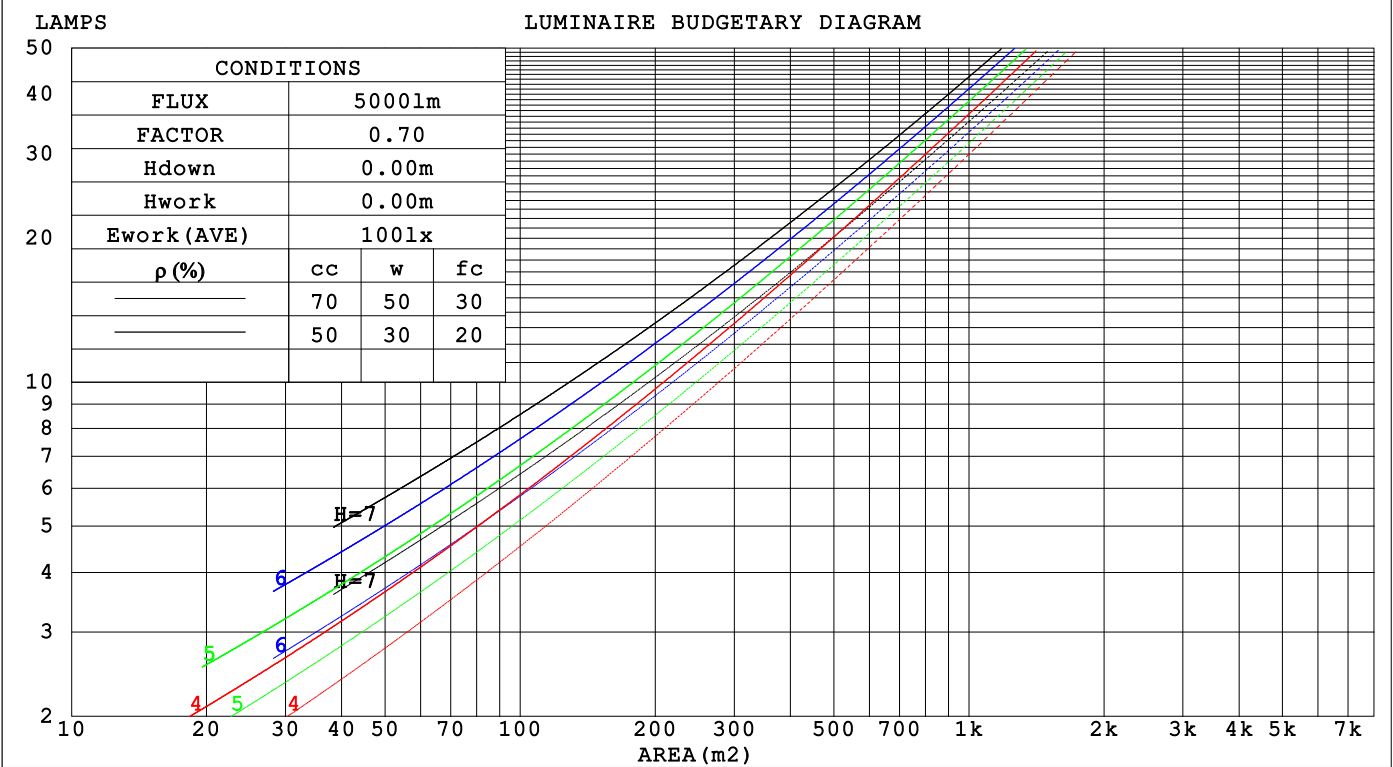
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.19V I:0.2148A P:25.617W PF:0.9925 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3363.41x1 lm		
NAME: TS-ST4-2FT25W-TCP(EMS)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	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	1.16	1.16	1.16	1.11	1.11	1.11	1.03	1.03	1.03	.96	.96	.96	.89	.89	.89	.86
1.0	.98	.93	.89	.94	.90	.86	.87	.84	.81	.81	.78	.76	.75	.73	.71	.68
2.0	.84	.77	.71	.81	.74	.69	.75	.70	.65	.70	.65	.61	.65	.61	.58	.55
3.0	.73	.65	.58	.71	.63	.56	.66	.59	.54	.61	.55	.51	.57	.52	.48	.45
4.0	.65	.55	.48	.62	.54	.47	.58	.51	.45	.54	.48	.43	.50	.45	.41	.38
5.0	.58	.48	.41	.56	.47	.40	.52	.44	.39	.48	.42	.37	.45	.40	.35	.33
6.0	.52	.42	.36	.50	.41	.35	.47	.39	.34	.44	.37	.32	.41	.35	.31	.28
7.0	.47	.38	.31	.45	.37	.31	.42	.35	.30	.40	.33	.28	.37	.32	.27	.25
8.0	.42	.34	.28	.41	.33	.27	.39	.31	.26	.36	.30	.25	.34	.28	.24	.22
9.0	.39	.31	.25	.38	.30	.24	.35	.28	.24	.33	.27	.23	.31	.26	.22	.20
10.0	.36	.28	.22	.35	.27	.22	.33	.26	.21	.31	.25	.21	.29	.24	.20	.18



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.19V I:0.2148A P:25.617W PF:0.9925 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3363.41x1 lm		
NAME: TS-ST4-2FT25W-TCP(EMS)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	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	.354	.201	.064	.343	.195	.062	.321	.184	.059	.301	.174	.056	.283	.164	.053															
2.0	.316	.173	.053	.306	.169	.052	.287	.159	.050	.269	.151	.047	.252	.143	.045															
3.0	.285	.152	.045	.276	.148	.044	.258	.140	.043	.242	.133	.041	.227	.126	.039															
4.0	.259	.135	.040	.251	.131	.039	.235	.125	.037	.220	.118	.036	.206	.112	.034															
5.0	.237	.121	.035	.229	.118	.034	.215	.112	.033	.201	.106	.032	.189	.101	.030															
6.0	.218	.109	.031	.211	.107	.031	.198	.101	.030	.186	.097	.028	.174	.092	.027															
7.0	.202	.100	.028	.195	.097	.028	.183	.093	.027	.172	.088	.026	.162	.084	.025															
8.0	.187	.092	.026	.182	.089	.025	.171	.085	.024	.160	.081	.023	.151	.077	.023															
9.0	.175	.085	.024	.170	.083	.023	.160	.079	.022	.150	.075	.022	.141	.072	.021															
10.0	.164	.079	.022	.159	.077	.021	.150	.073	.021	.141	.070	.020	.133	.067	.019															

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	.300	.300	.300	.256	.256	.256	.175	.175	.175	.101	.101	.101	.032	.032	.032	
1.0	.294	.266	.241	.251	.228	.208	.172	.157	.144	.099	.091	.084	.032	.029	.027	
2.0	.287	.243	.206	.246	.209	.178	.168	.145	.124	.097	.084	.073	.031	.027	.024	
3.0	.279	.226	.184	.239	.195	.159	.164	.136	.112	.095	.079	.066	.030	.026	.022	
4.0	.272	.213	.169	.233	.184	.147	.160	.129	.103	.093	.075	.061	.030	.025	.020	
5.0	.264	.203	.159	.227	.176	.138	.156	.123	.098	.090	.072	.058	.029	.024	.019	
6.0	.257	.195	.151	.221	.169	.132	.152	.118	.093	.088	.070	.055	.028	.023	.018	
7.0	.250	.189	.146	.215	.164	.127	.148	.115	.090	.086	.068	.054	.028	.022	.018	
8.0	.243	.183	.142	.209	.159	.124	.145	.112	.088	.084	.066	.052	.027	.022	.017	
9.0	.237	.178	.139	.204	.155	.121	.141	.109	.086	.082	.064	.051	.027	.021	.017	
10.0	.231	.174	.136	.199	.151	.119	.138	.106	.084	.081	.063	.050	.026	.021	.017	

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2025-08-29

V(B) Range:-180 - 180DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:10.704m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.19V I:0.2148A P:25.617W PF:0.9925 Freq:59.98Hz											
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3363.41x1 lm											
NAME: TS-ST4-2FT25W-TCP(EMS)						TYPE:			WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
MFR.:						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	21.3	22.7	21.9	23.3	23.9	23.7	25.1	24.2	25.6	26.3	
	3H	23.0	24.3	23.6	24.9	25.6	26.5	27.8	27.1	28.4	29.0
	4H	23.6	24.9	24.2	25.5	26.2	27.9	29.1	28.5	29.7	30.4
	6H	24.1	25.2	24.7	25.8	26.5	29.3	30.4	29.9	31.0	31.7
	8H	24.1	25.2	24.8	25.9	26.6	29.9	31.0	30.5	31.6	32.3
	12H	24.2	25.2	24.8	25.8	26.6	30.6	31.6	31.2	32.2	33.0
4H	2H	22.5	23.7	23.1	24.3	25.0	24.2	25.4	24.8	26.0	26.7
	3H	24.5	25.6	25.1	26.2	26.9	27.3	28.3	27.9	29.0	29.7
	4H	25.3	26.3	25.9	26.9	27.7	28.9	29.9	29.6	30.5	31.3
	6H	25.9	26.7	26.6	27.4	28.2	30.5	31.4	31.2	32.0	32.8
	8H	26.1	26.9	26.7	27.5	28.3	31.3	32.0	31.9	32.7	33.5
	12H	26.1	26.9	26.8	27.6	28.3	32.0	32.7	32.7	33.4	34.2
8H	4H	26.4	27.2	27.0	27.8	28.6	29.3	30.1	29.9	30.7	31.5
	6H	27.3	28.0	28.0	28.7	29.5	31.1	31.7	31.8	32.4	33.2
	8H	27.6	28.2	28.3	29.0	29.7	32.0	32.6	32.7	33.3	34.1
	12H	27.9	28.4	28.6	29.1	30.0	33.0	33.5	33.7	34.2	35.0
12H	4H	26.7	27.4	27.3	28.1	28.9	29.3	30.0	30.0	30.7	31.5
	6H	27.7	28.4	28.5	29.0	29.9	31.2	31.8	31.9	32.4	33.3
	8H	28.2	28.8	28.9	29.5	30.3	32.1	32.7	32.8	33.4	34.2
CIE190: 2010											

CIE190: 2010
Area: 0.0305 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.19V I:0.2148A P:25.617W PF:0.9925 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3363.41x1 lm		
NAME: TS-ST4-2FT25W-TCP(EMS)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

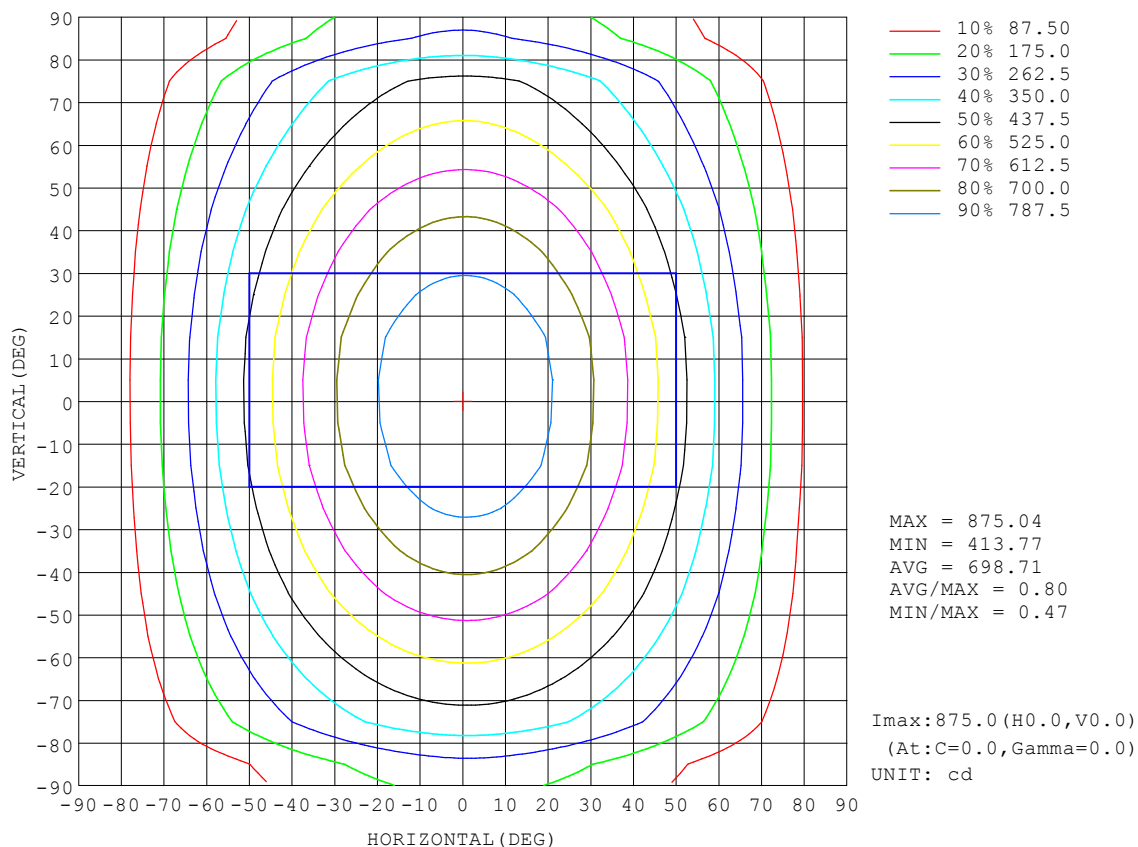
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	51	39	31	49	38	31	48	37	31	24
0.80	60	47	40	58	47	39	56	45	39	31
1.00	68	56	48	66	55	47	63	55	46	37
1.25	75	63	55	73	62	54	69	59	53	43
1.50	80	69	61	77	67	60	73	64	58	48
2.00	87	77	69	84	75	68	79	71	65	54
2.50	91	82	75	88	80	73	82	76	70	58
3.00	95	87	80	92	84	78	86	79	74	62
4.00	100	93	87	96	90	84	89	84	80	67
5.00	102	96	91	99	93	89	92	87	84	70
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2025-08-29

$V(B)$ Range:-180 - 180DEG
 $V(B)$ Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:10.704m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.19V I:0.2148A P:25.617W PF:0.9925 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3363.41x1 lm		
NAME: TS-ST4-2FT25W-TCP(EMS)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

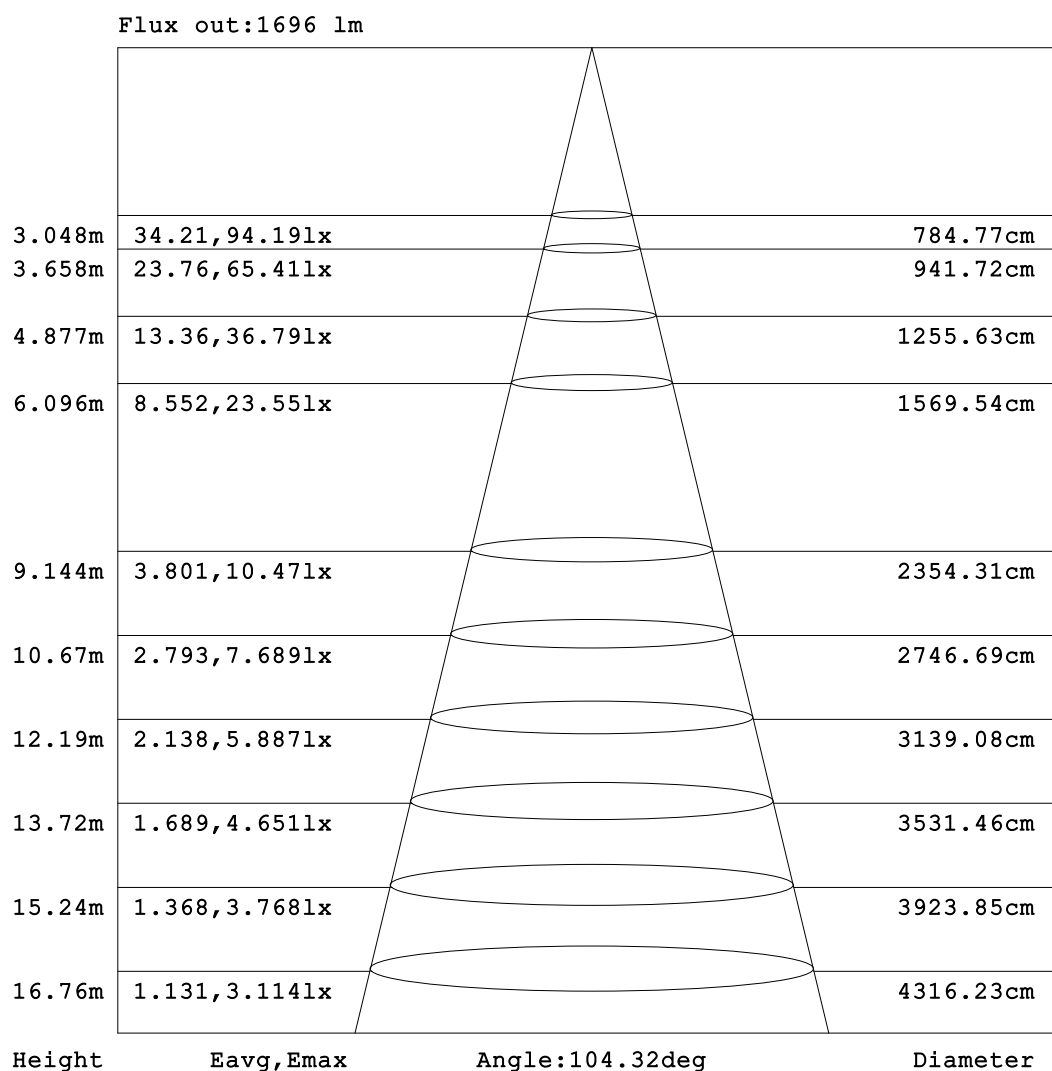


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.19V I:0.2148A P:25.617W PF:0.9925 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3363.41x1 lm		
NAME: TS-ST4-2FT25W-TCP(EMS)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



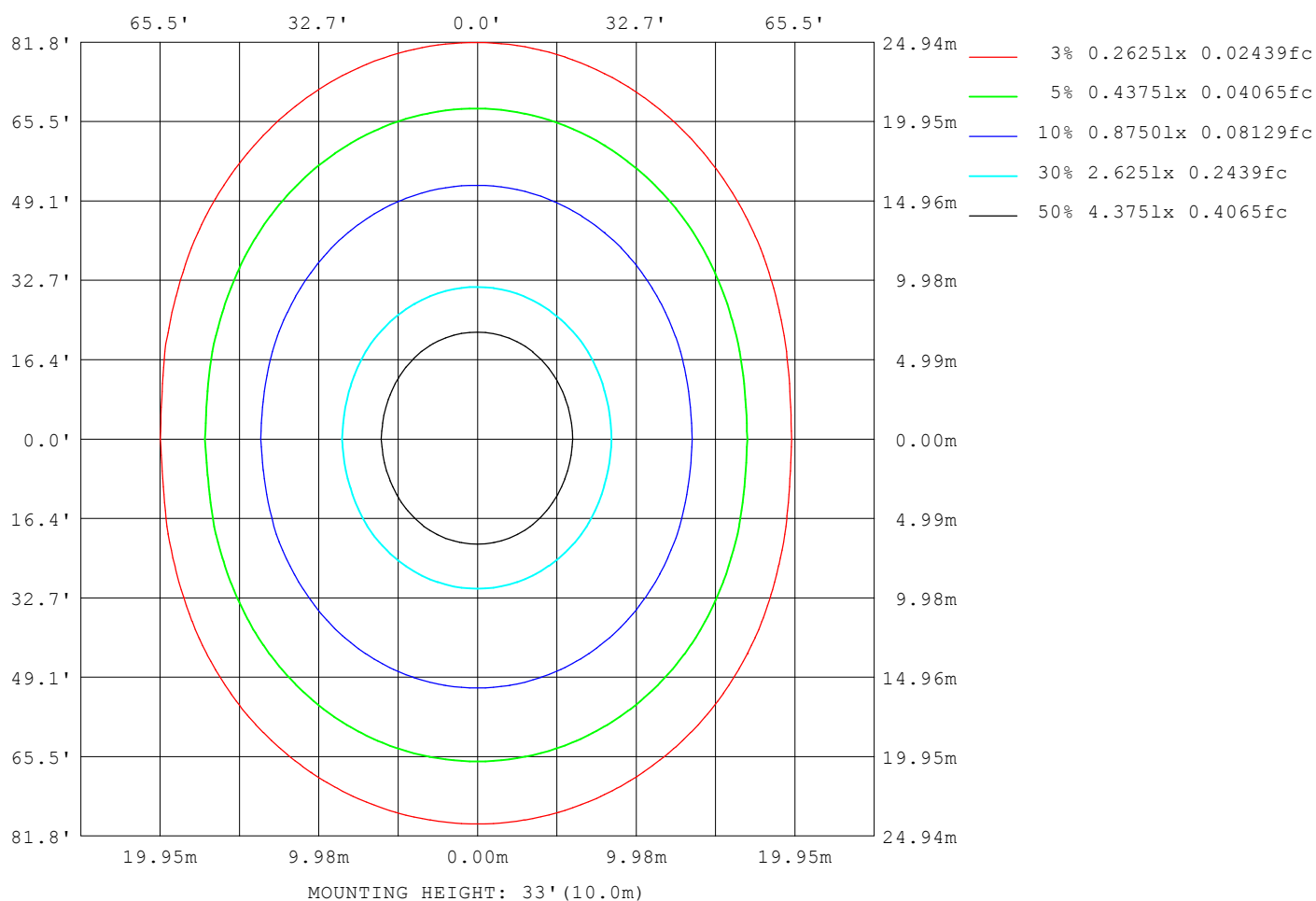
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.19V I:0.2148A P:25.617W PF:0.9925 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3363.41x1 lm		
NAME: TS-ST4-2FT25W-TCP(EMS)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.19V I:0.2148A P:25.617W PF:0.9925 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3363.41x1 lm		
NAME: TS-ST4-2FT25W-TCP(EMS)	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

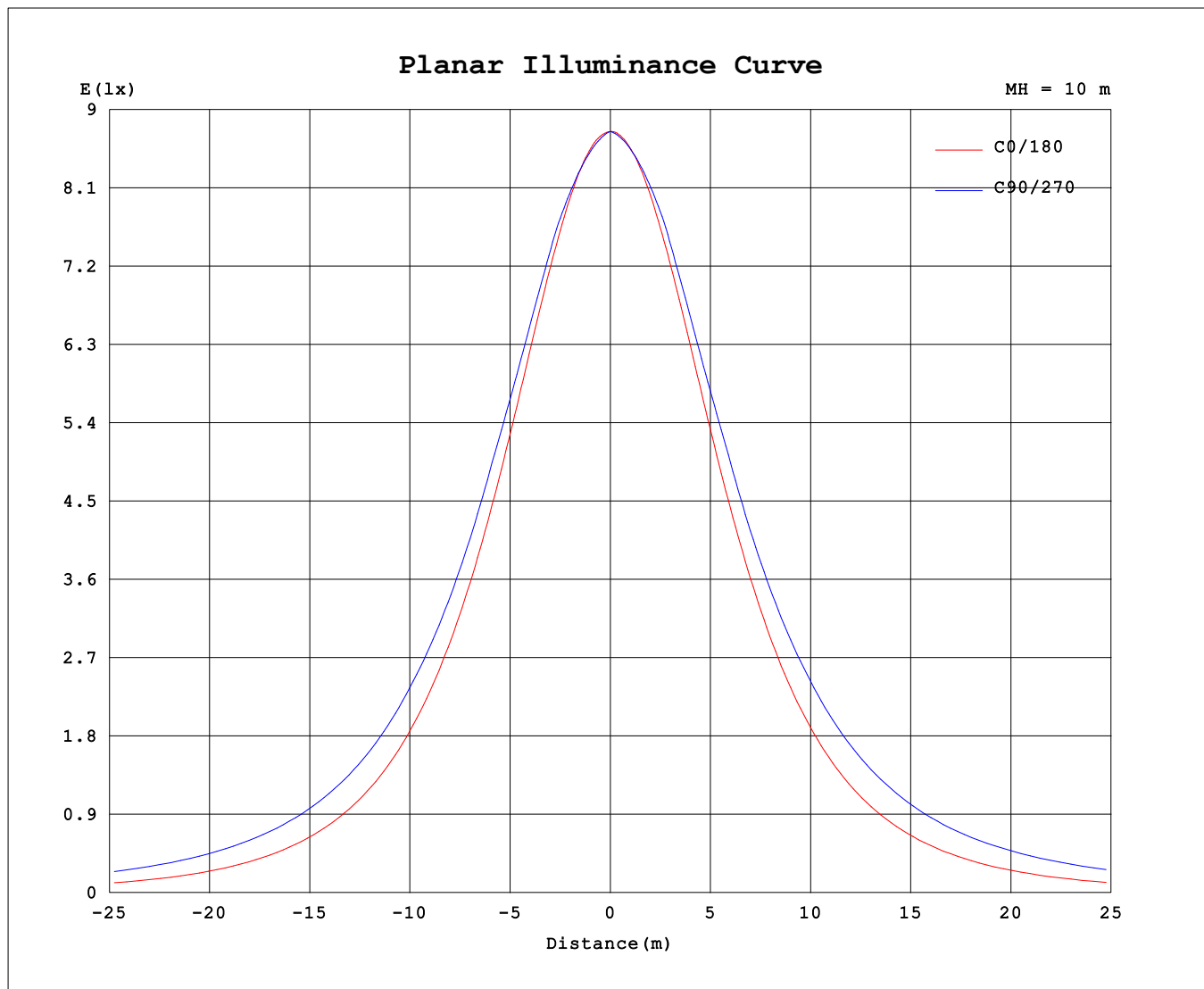
AvgL	cd/m2
L_0~180 (65) av	20493
L_0~180 (75) av	16872
L_0~180 (85) av	7922
L_90~270 (65) av	39666
L_90~270 (75) av	54609
L_90~270 (85) av	97119
L_45 (65) av	30456
L_45 (75) av	37531
L_45 (85) av	57620

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

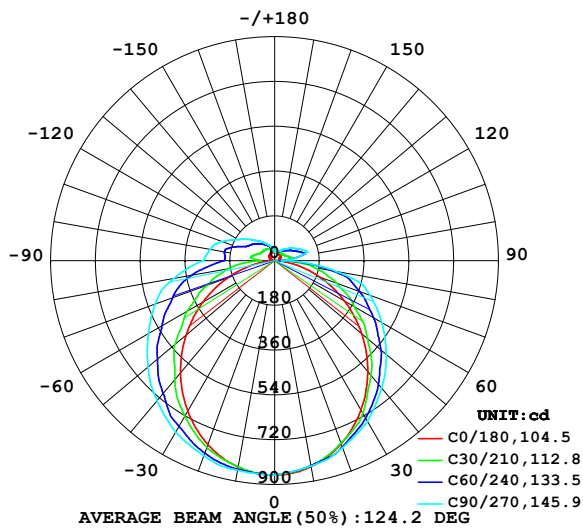
V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

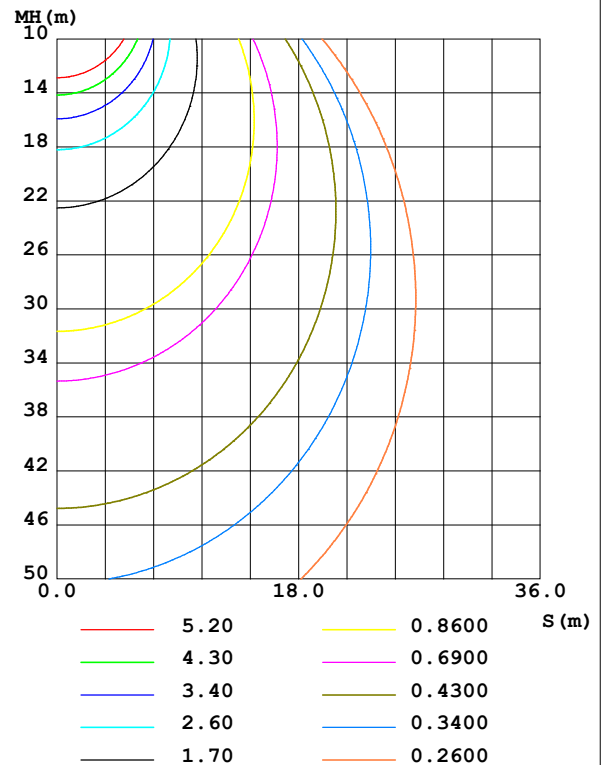
Test:U:120.26V I:0.1967A P:23.554W PF:0.9957 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3322.24x1 lm		
NAME: TS-ST4-2FT25W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.05 lm/W			
MODEL	/	Imax (cd)	862.2	S/MH(C0/180)	1.21
NOMINAL POWER(W)	/	LOR(%)	100.0	S/MH(C90/270)	1.37
RATED VOLTAGE(V)	/	TOTAL FLUX(lm)	3322.2	η UP,DN(C0-180)	5.2,40.1
NOMINAL FLUX(lm)	3322.24	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	9.5,45.2
LAMPS INSIDE	1	η up (%)	14.7	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	/	η down (%)	85.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

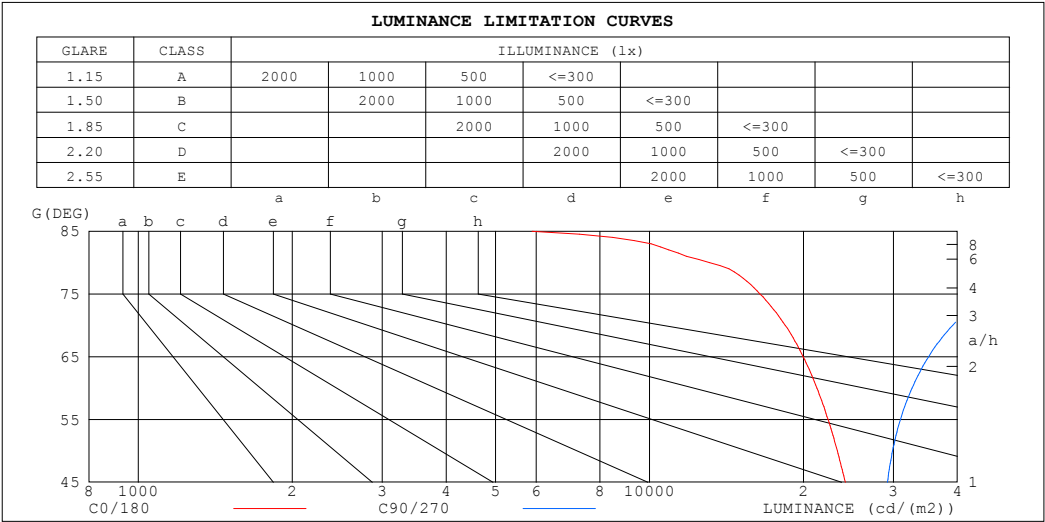
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	841.2	836.5	838.2	833.9	842.9	846.5	855.8	848.4	0- 10	81.19	81.19	2.44,2.44
20	783.0	794.7	799.6	785.9	786.2	811.3	834.0	817.8	10- 20	232.9	314.1	9.45,9.45
30	693.7	715.1	746.3	709.2	698.7	745.8	797.1	746.9	20- 30	353.9	668.0	20.1,20.1
40	582.4	624.6	668.9	622.7	588.8	669.4	735.2	663.5	30- 40	431.3	1099	33.1,33.1
50	456.9	518.5	586.0	516.4	464.7	571.2	664.7	562.3	40- 50	458.6	1558	46.9,46.9
60	324.1	414.3	497.6	408.9	332.3	467.6	585.4	460.1	50- 60	438.1	1996	60.1,60.1
70	192.3	316.3	408.7	304.1	199.2	365.1	511.0	363.0	60- 70	380.5	2377	71.5,71.5
80	69.43	214.9	251.9	198.6	76.59	268.7	411.6	271.2	70- 80	296.6	2673	80.5,80.5
90	3.648	10.70	27.24	14.48	3.833	128.6	287.0	119.9	80- 90	159.4	2833	85.3,85.3
100	17.84	103.8	101.3	88.00	14.77	160.3	263.7	162.7	90-100	102.6	2935	88.3,88.3
110	20.81	81.78	125.0	73.83	18.30	121.4	224.7	124.8	100-110	114.2	3049	91.8,91.8
120	23.20	63.93	98.11	60.73	25.08	97.84	170.0	94.92	110-120	85.83	3135	94.4,94.4
130	28.10	53.08	78.16	51.58	28.71	85.65	134.0	80.37	120-130	64.87	3200	96.3,96.3
140	31.22	44.92	61.28	44.29	32.00	76.01	104.8	72.13	130-140	48.67	3249	97.8,97.8
150	33.32	41.26	47.49	41.35	34.54	66.05	82.32	63.54	140-150	34.77	3284	98.8,98.8
160	34.79	37.58	40.93	38.18	36.00	55.83	65.12	53.98	150-160	22.69	3306	99.5,99.5
170	35.41	36.43	37.05	37.46	35.94	45.82	49.30	44.58	160-170	12.29	3319	99.9,99.9
180	35.82	35.82	35.82	35.82	34.85	34.85	34.85	34.85	170-180	3.704	3322	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2025-08-29

V(B) Range:-180 - 180DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:10.704m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.26V I:0.1967A P:23.554W PF:0.9957 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3322.24x1 lm		
NAME: TS-ST4-2FT25W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5886	52469
80	13109	47565
75	16450	46117
70	18430	39179
65	19969	35136
60	21255	32628
55	22339	30953
50	23305	29891
45	24153	29205

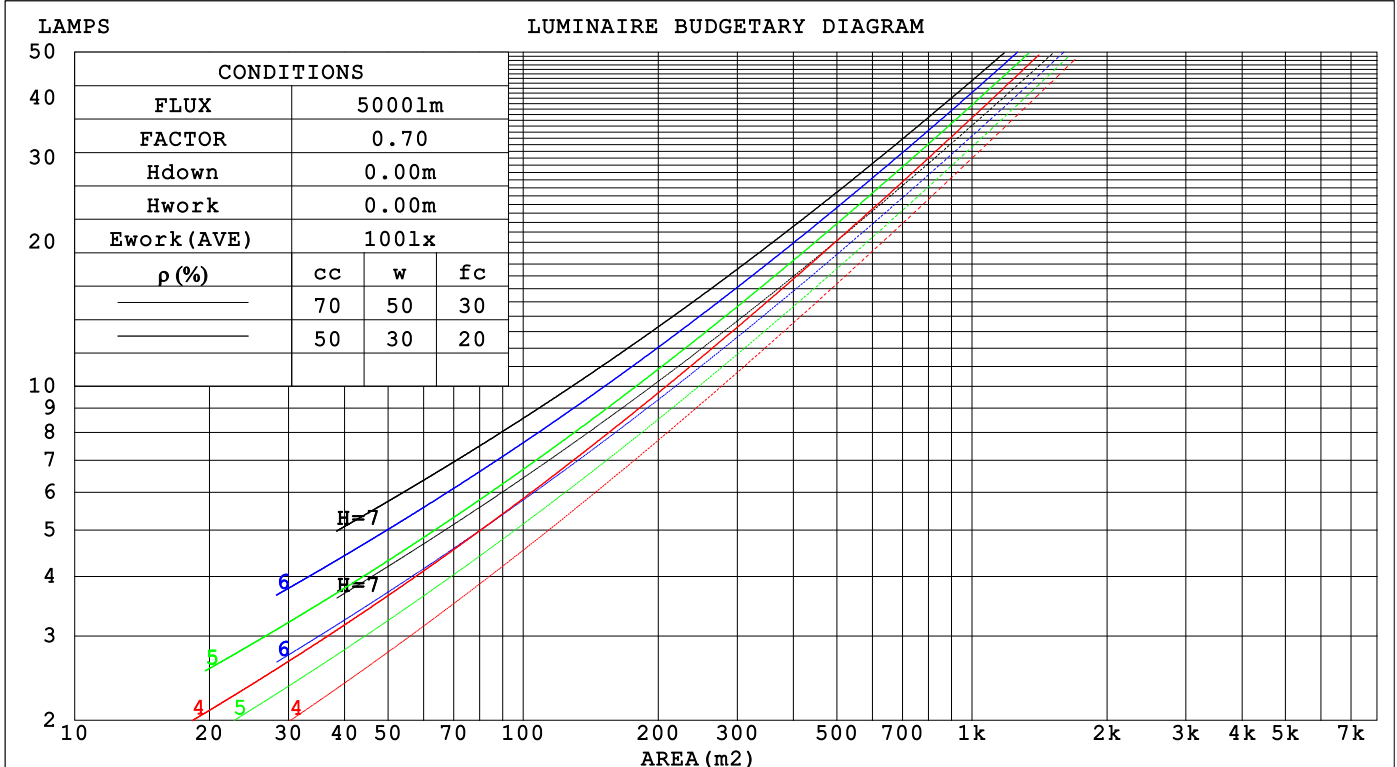
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.26V I:0.1967A P:23.554W PF:0.9957 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3322.24x1 lm		
NAME: TS-ST4-2FT25W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	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															



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:120.26V I:0.1967A P:23.554W PF:0.9957 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3322.24x1 lm		
NAME: TS-ST4-2FT25W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	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	.353	.201	.064	.341	.195	.062	.319	.183	.059	.299	.173	.055	.281	.163	.052															
2.0	.316	.173	.053	.305	.168	.052	.286	.159	.049	.267	.150	.047	.251	.142	.045															
3.0	.285	.152	.045	.275	.147	.044	.258	.140	.042	.241	.132	.041	.226	.125	.039															
4.0	.259	.134	.040	.250	.131	.039	.234	.124	.037	.219	.118	.036	.205	.112	.034															
5.0	.236	.121	.035	.229	.117	.034	.214	.112	.033	.201	.106	.032	.188	.100	.030															
6.0	.218	.109	.031	.211	.106	.031	.197	.101	.029	.185	.096	.028	.173	.091	.027															
7.0	.201	.100	.028	.195	.097	.028	.183	.092	.027	.172	.088	.026	.161	.084	.025															
8.0	.187	.091	.026	.181	.089	.025	.170	.085	.024	.160	.081	.023	.150	.077	.022															
9.0	.175	.085	.024	.169	.083	.023	.159	.079	.022	.150	.075	.021	.141	.071	.021															
10.0	.164	.079	.022	.159	.077	.021	.150	.073	.021	.141	.070	.020	.132	.067	.019															

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	.303	.303	.303	.259	.259	.259	.177	.177	.177	.101	.101	.101	.032	.032	.032	
1.0	.297	.269	.244	.254	.231	.210	.174	.159	.145	.100	.092	.085	.032	.030	.027	
2.0	.289	.246	.209	.248	.212	.181	.170	.146	.126	.098	.085	.074	.031	.028	.024	
3.0	.282	.229	.187	.242	.198	.162	.166	.137	.114	.096	.080	.067	.031	.026	.022	
4.0	.274	.216	.172	.235	.187	.149	.162	.130	.105	.094	.076	.062	.030	.025	.020	
5.0	.267	.206	.162	.229	.179	.141	.158	.125	.099	.091	.073	.059	.029	.024	.019	
6.0	.259	.198	.154	.223	.172	.134	.154	.120	.095	.089	.071	.057	.029	.023	.019	
7.0	.253	.192	.149	.217	.166	.130	.150	.116	.092	.087	.069	.055	.028	.022	.018	
8.0	.246	.186	.145	.212	.161	.126	.146	.113	.090	.085	.067	.053	.028	.022	.018	
9.0	.240	.181	.142	.207	.157	.124	.143	.111	.088	.083	.065	.052	.027	.021	.017	
10.0	.234	.177	.139	.202	.154	.121	.140	.108	.086	.082	.064	.051	.026	.021	.017	

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2025-08-29

V(B) Range:-180 - 180DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:10.704m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.26V I:0.1967A P:23.554W PF:0.9957 Freq:59.98Hz										
UTHDi:0.00% ITHDi:0.00% KDisp:0Lamp Flux:3322.24x1 lm										
NAME: TS-ST4-2FT25W-TCP						TYPE:		WEIGHT:		
SPEC.:						DIM.:		SERIAL No.:		
MFR.:						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	21.2	22.6	21.7	23.1	23.8	23.2	24.6	23.7	25.1	25.8
3H	22.9	24.2	23.5	24.8	25.5	25.9	27.2	26.5	27.8	28.5
4H	23.5	24.7	24.1	25.3	26.0	27.3	28.5	27.9	29.1	29.8
6H	23.9	25.1	24.6	25.7	26.4	28.5	29.6	29.1	30.2	30.9
8H	24.0	25.1	24.7	25.7	26.5	28.9	30.0	29.5	30.6	31.3
12H	24.0	25.1	24.7	25.7	26.5	29.2	30.3	29.9	30.9	31.6
4H 2H	22.3	23.5	22.9	24.1	24.8	23.7	24.9	24.3	25.5	26.2
3H	24.3	25.3	24.9	26.0	26.7	26.7	27.8	27.4	28.4	29.1
4H	25.1	26.0	25.7	26.7	27.5	28.3	29.3	29.0	29.9	30.7
6H	25.7	26.5	26.4	27.2	28.0	29.7	30.5	30.3	31.2	31.9
8H	25.9	26.6	26.5	27.3	28.1	30.2	31.0	30.8	31.6	32.4
12H	25.9	26.6	26.6	27.3	28.1	30.6	31.3	31.3	32.0	32.8
8H 4H	26.1	26.9	26.7	27.5	28.3	28.6	29.4	29.3	30.1	30.9
6H	27.0	27.7	27.7	28.4	29.2	30.2	30.8	30.9	31.6	32.3
8H	27.3	27.9	28.0	28.6	29.4	30.8	31.4	31.5	32.1	32.9
12H	27.6	28.1	28.3	28.8	29.7	31.4	31.9	32.1	32.6	33.5
12H 4H	26.3	27.0	27.0	27.7	28.5	28.7	29.4	29.3	30.1	30.9
6H	27.4	28.0	28.1	28.7	29.5	30.3	30.9	31.0	31.5	32.4
8H	27.8	28.3	28.5	29.1	29.9	31.0	31.5	31.7	32.2	33.1
CIE190: 2010										

CIE190: 2010
Area: 0.0305 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.26V I:0.1967A P:23.554W PF:0.9957 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3322.24x1 lm		
NAME: TS-ST4-2FT25W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

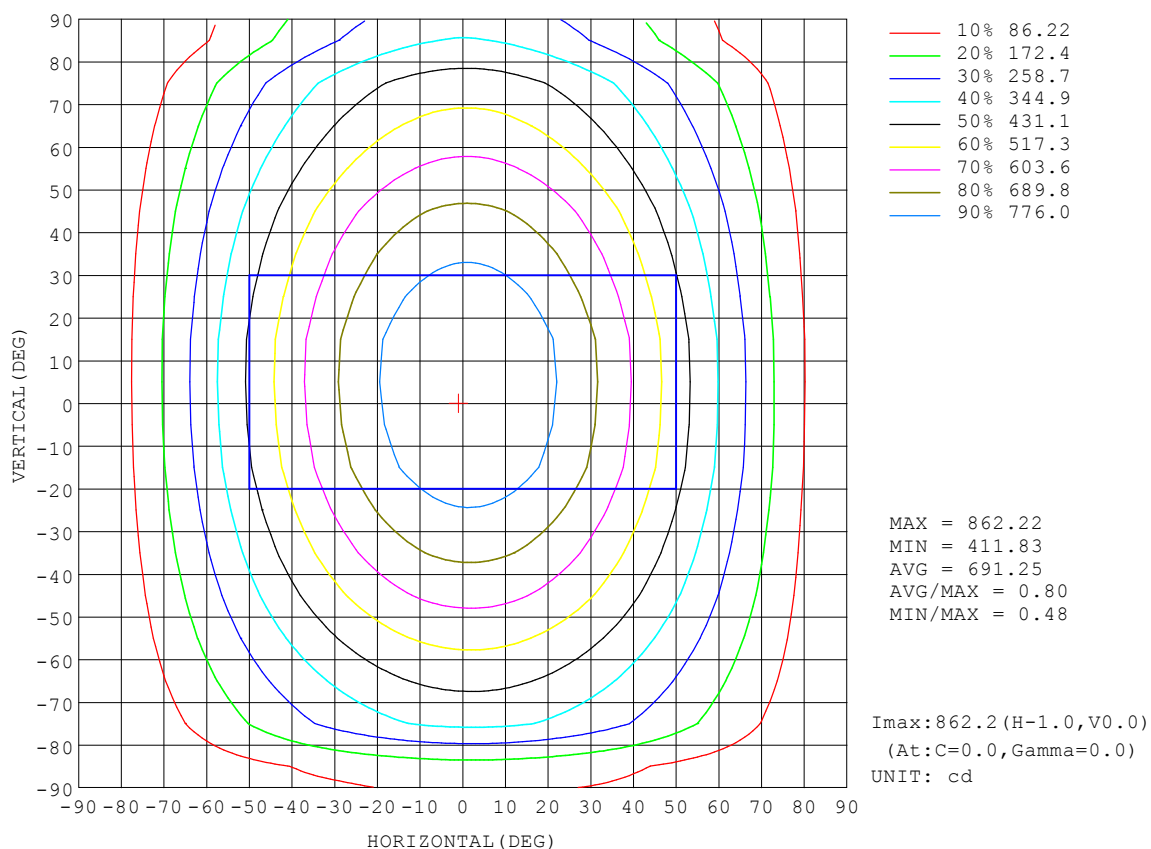
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	51	38	31	49	38	31	48	37	31	24
0.80	60	47	40	58	47	39	56	45	38	31
1.00	68	56	48	66	55	47	63	55	46	37
1.25	75	63	55	73	62	54	68	59	52	43
1.50	80	69	60	77	67	59	73	64	57	48
2.00	87	77	69	84	75	68	79	71	65	54
2.50	91	82	75	88	80	73	82	75	70	58
3.00	95	87	80	92	84	78	85	79	74	62
4.00	100	92	87	96	90	84	89	84	80	66
5.00	102	96	91	99	93	88	92	87	83	69
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2025-08-29

$V(B)$ Range:-180 - 180DEG
 $V(B)$ Interval: 5.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:10.704m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.26V I:0.1967A P:23.554W PF:0.9957 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3322.24x1 lm		
NAME: TS-ST4-2FT25W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

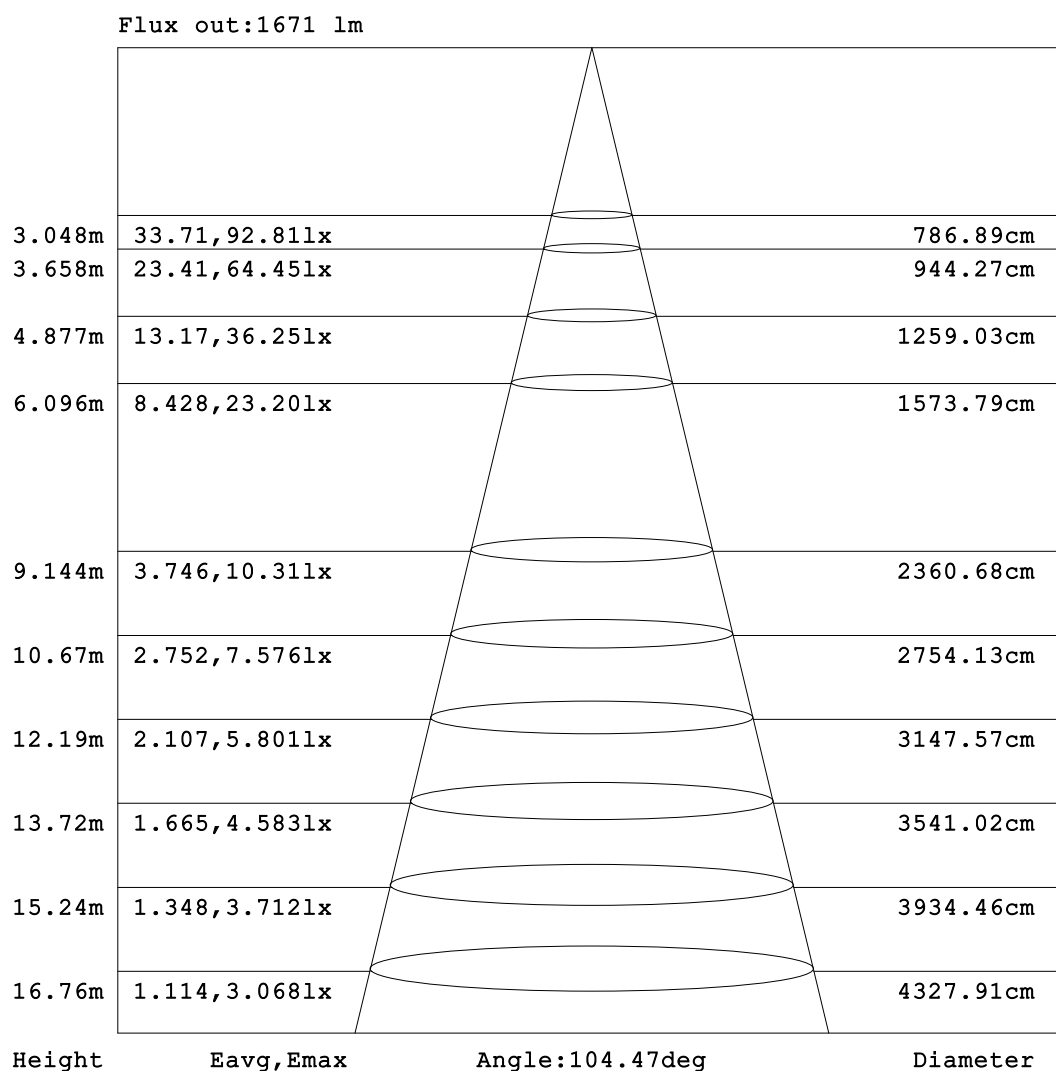


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.26V I:0.1967A P:23.554W PF:0.9957 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3322.24x1 lm		
NAME: TS-ST4-2FT25W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



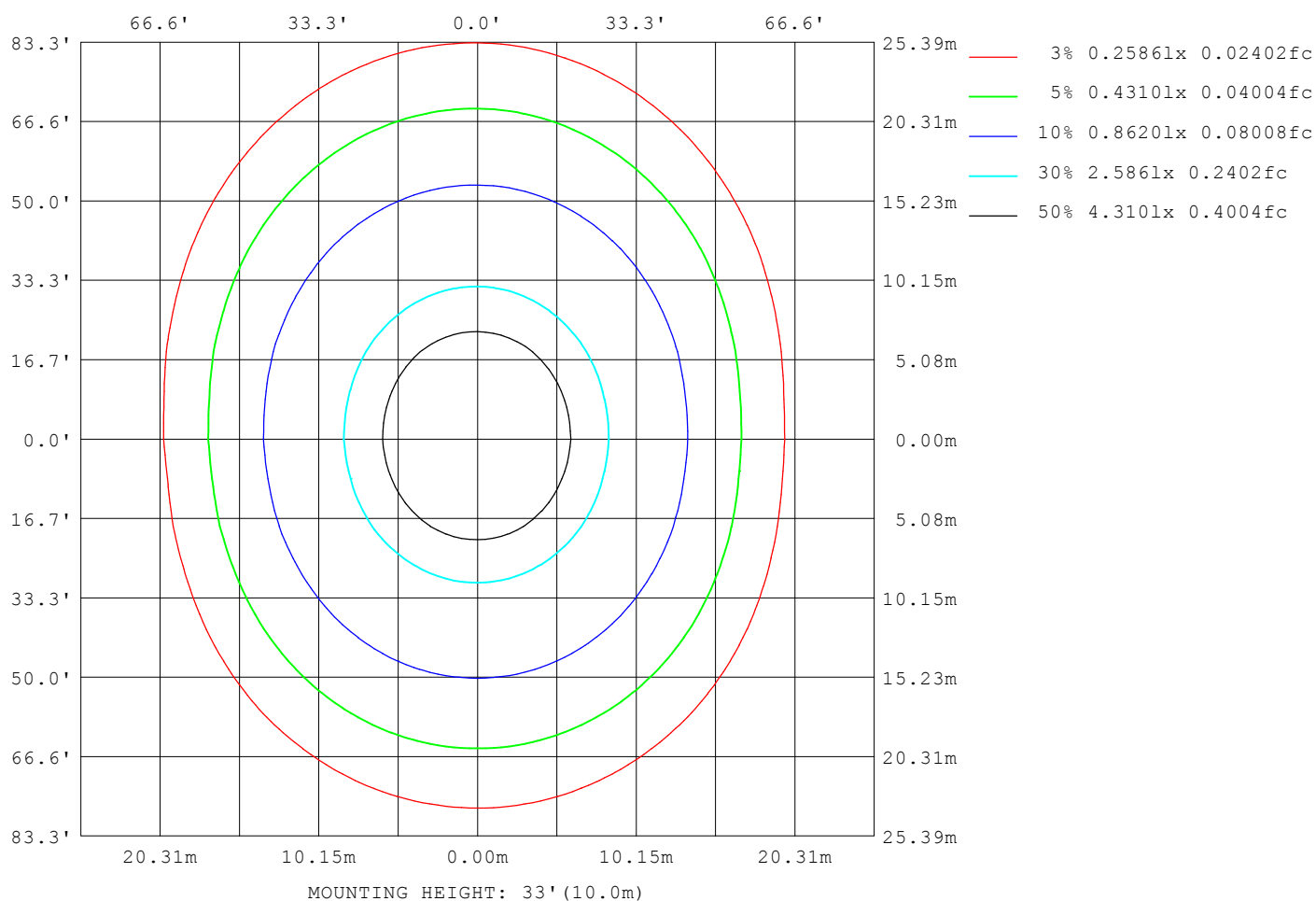
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.26V I:0.1967A P:23.554W PF:0.9957 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3322.24x1 lm		
NAME: TS-ST4-2FT25W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.26V I:0.1967A P:23.554W PF:0.9957 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3322.24x1 lm		
NAME: TS-ST4-2FT25W-TCP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

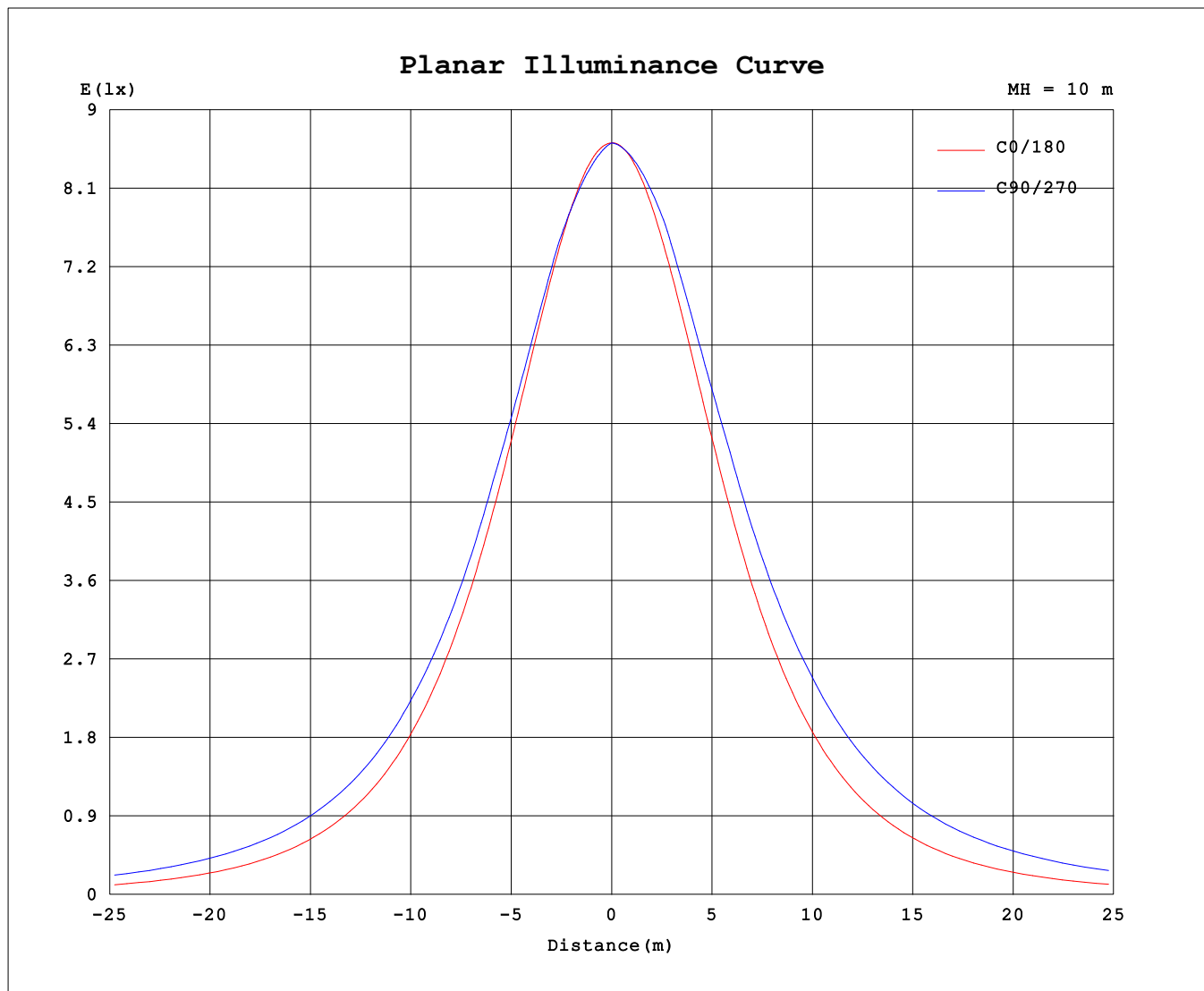
AvgL	cd/m2
L_0~180 (65) av	20282
L_0~180 (75) av	16785
L_0~180 (85) av	7707
L_90~270 (65) av	38835
L_90~270 (75) av	53066
L_90~270 (85) av	91977
L_45 (65) av	29972
L_45 (75) av	36689
L_45 (85) av	57309

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-08-29

V(B) Range:-180 - 180DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:10.704m [K=1.0000]
Remarks: