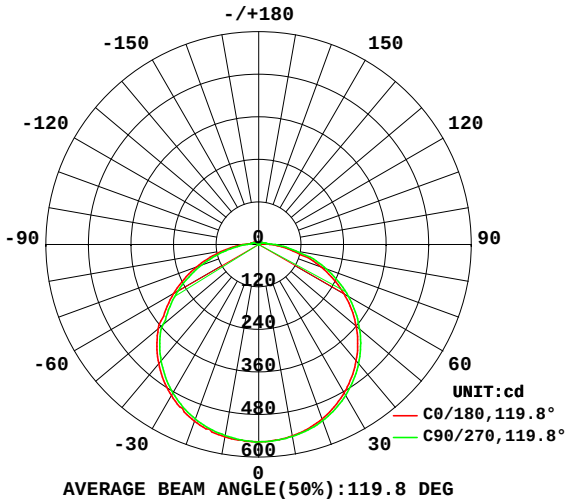
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.3V I:0.2313A P:24.83W PF:0.8918 Lamp Flux:1836.69x1 lm		
NAME:I-HDT-25W-TD-5CCT-D14-FSN	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL	SUR.:	PROTECTION ANGLE:

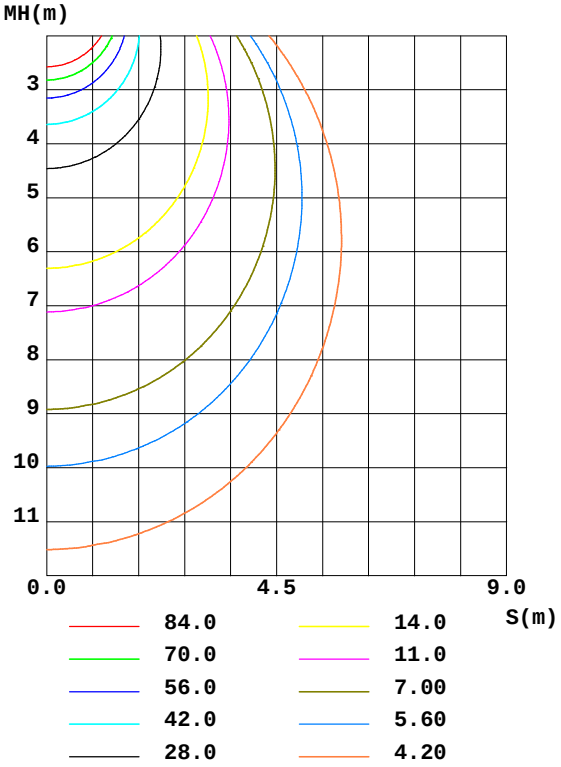
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 73.97 lm/W	
MODEL		Imax(cd)	557.7	S/MH(C0/180)	1.29
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1836.7	η UP,DN(C0-180)	1.5,48.9
NOMINAL FLUX(lm)	1836.69	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.8,47.7
LAMPS INSIDE	1	η up(%)	3.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120.3	η down(%)	96.6	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):119.8 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.600m [K=1.0000]
Remarks: LM79

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	548.0	548.8	549.7	551.4	551.1	550.3	547.2	545.8	0- 10	52.77	52.77	2.87,2.87
20	523.9	525.6	528.7	531.4	530.6	527.7	523.7	520.6	10- 20	152.5	205.2	11.2,11.2
30	483.1	486.7	491.2	494.4	492.6	488.6	484.0	479.6	20- 30	234.7	439.9	24,24
40	428.0	433.1	438.5	441.8	439.2	434.0	428.5	423.5	30- 40	289.3	729.2	39.7,39.7
50	359.5	365.8	371.8	375.7	370.2	364.3	352.2	353.0	40- 50	309.1	1038	56.5,56.5
60	277.6	274.7	292.4	284.5	277.5	281.1	263.0	270.2	50- 60	286.4	1325	72.1,72.1
70	188.5	185.7	204.1	195.4	187.1	190.0	172.1	180.4	60- 70	230.8	1556	84.7,84.7
80	92.06	98.89	106.7	108.0	100.9	91.90	88.07	85.12	70- 80	149.3	1705	92.8,92.8
90	34.51	38.86	43.52	44.80	40.95	38.08	35.35	34.25	80- 90	69.81	1775	96.6,96.6
100	14.54	21.81	21.03	27.07	22.01	27.06	20.70	22.18	90-100	30.88	1806	98.3,98.3
110	5.798	2.854	14.71	16.29	16.65	18.52	15.35	12.71	100-110	18.44	1824	99.3,99.3
120	0.3759	0	10.89	1.472	3.777	12.89	2.563	7.732	110-120	8.546	1833	99.8,99.8
130	0	0	6.548	0	0	7.858	0	4.023	120-130	3.148	1836	99.9,99.9
140	0	0	0.3183	0	0	1.299	0	0	130-140	0.9551	1837	100,100
150	0	0	0	0	0	0	0	0	140-150	0.0123	1837	100,100
160	0	0	0	0	0	0	0	0	150-160	0	1837	100,100
170	0	0	0	0	0	0	0	0	160-170	0	1837	100,100
180	0	0	0	0	0	0	0	0	170-180	0	1837	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.600m [K=1.0000]
Remarks: LM79

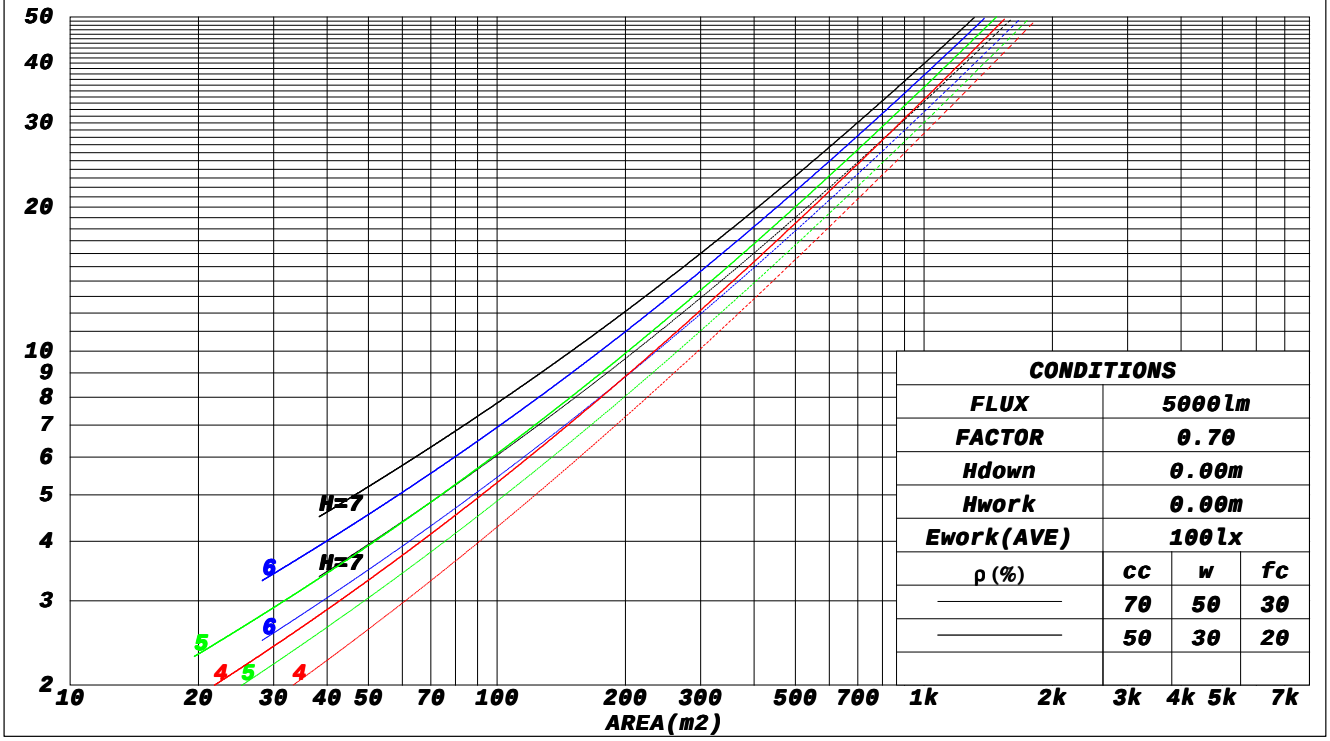
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.2313A P:24.83W PF:0.8918 Lamp Flux:1836.69x1 lm		
NAME: 14寸超薄双边-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.02	.97	.93	.99	.95	.91	.94	.91	.87	.90	.87	.84	.85	.83	.81	.79
2.0	.88	.81	.74	.86	.79	.73	.81	.76	.71	.78	.73	.69	.74	.70	.67	.64
3.0	.77	.68	.61	.75	.67	.60	.71	.65	.59	.68	.62	.58	.65	.60	.56	.54
4.0	.68	.59	.52	.66	.58	.51	.63	.56	.50	.60	.54	.49	.58	.52	.48	.45
5.0	.60	.51	.44	.59	.50	.44	.56	.49	.43	.54	.47	.42	.52	.46	.41	.39
6.0	.54	.45	.38	.53	.44	.38	.51	.43	.37	.49	.42	.37	.47	.41	.36	.34
7.0	.49	.40	.34	.48	.39	.33	.46	.38	.33	.44	.38	.32	.43	.37	.32	.30
8.0	.45	.36	.30	.44	.35	.30	.42	.35	.29	.41	.34	.29	.39	.33	.29	.27
9.0	.41	.32	.27	.40	.32	.27	.39	.31	.26	.37	.31	.26	.36	.30	.26	.24
10.0	.38	.30	.24	.37	.29	.24	.36	.29	.24	.35	.28	.24	.33	.28	.23	.21

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



CONDITIONS			
FLUX	5000lm		
FACTOR	0.70		
Hdown	0.00m		
Hwork	0.00m		
Ework(AVE)	100lx		
ρ(%)	cc	w	fc
———	70	50	30
———	50	30	20

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.600m [K=1.0000]
Remarks: LM79

WEC AND CCEC

Test:U:120.3V I:0.2313A P:24.83W PF:0.8918 Lamp Flux:1836.69x1 lm		
NAME: 14寸超薄双边-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coeffcients(WEC)												
0.0																
1.0	.338	.192	.061	.330	.188	.060	.315	.181	.058	.301	.173	.056	.288	.167	.054	
2.0	.309	.169	.052	.302	.166	.051	.288	.160	.050	.275	.155	.048	.264	.149	.047	
3.0	.282	.150	.045	.275	.147	.044	.263	.143	.043	.252	.138	.042	.241	.134	.041	
4.0	.258	.134	.039	.252	.132	.039	.241	.128	.038	.231	.124	.037	.222	.120	.037	
5.0	.237	.121	.035	.232	.119	.035	.222	.116	.034	.213	.112	.033	.204	.109	.033	
6.0	.219	.110	.031	.214	.108	.031	.205	.105	.031	.197	.102	.030	.190	.100	.030	
7.0	.203	.100	.028	.199	.099	.028	.191	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.189	.092	.026	.185	.091	.026	.178	.089	.025	.171	.087	.025	.165	.085	.025	
9.0	.177	.085	.024	.173	.084	.024	.167	.082	.023	.161	.081	.023	.155	.079	.023	
10.0	.166	.079	.022	.163	.079	.022	.157	.077	.022	.151	.075	.021	.146	.074	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.216	.216	.216	.185	.185	.185	.126	.126	.126	.072	.072	.072	.023	.023	.023	
1.0	.208	.182	.158	.178	.156	.136	.122	.107	.094	.070	.062	.055	.022	.020	.018	
2.0	.201	.158	.122	.172	.136	.105	.118	.094	.074	.068	.055	.043	.022	.018	.014	
3.0	.193	.141	.099	.165	.121	.086	.114	.084	.060	.066	.049	.035	.021	.016	.012	
4.0	.185	.128	.083	.159	.110	.072	.109	.077	.051	.063	.045	.030	.020	.015	.010	
5.0	.178	.117	.073	.153	.101	.063	.105	.071	.045	.061	.042	.026	.020	.014	.009	
6.0	.170	.109	.065	.147	.094	.057	.101	.066	.040	.059	.039	.024	.019	.013	.008	
7.0	.163	.102	.059	.141	.089	.052	.097	.062	.037	.056	.037	.022	.018	.012	.007	
8.0	.157	.096	.055	.135	.084	.048	.093	.059	.034	.054	.035	.020	.018	.011	.007	
9.0	.151	.092	.052	.130	.079	.045	.090	.056	.032	.052	.033	.019	.017	.011	.006	
10.0	.145	.087	.049	.125	.076	.043	.087	.053	.030	.051	.032	.018	.016	.010	.006	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.600m [K=1.0000]
Remarks: LM79

Uncorrected UGR Table

Test:U:120.3V I:0.2313A P:24.83W PF:0.8918 Lamp Flux:1836.69x1 lm		
NAME: 14寸超薄双边-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION 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	18.7	20.2	19.0	20.4	20.7	18.8	20.4	19.2	20.6	20.9
	3H	20.4	21.8	20.8	22.1	22.4	20.7	22.1	21.0	22.4	22.7
	4H	21.2	22.5	21.5	22.8	23.2	21.5	22.9	21.9	23.2	23.5
	6H	21.8	23.0	22.1	23.4	23.7	22.2	23.5	22.6	23.8	24.2
	8H	22.0	23.2	22.4	23.6	24.0	22.5	23.8	22.9	24.1	24.5
	12H	22.3	23.5	22.7	23.8	24.2	22.9	24.0	23.3	24.4	24.8
4H	2H	19.3	20.7	19.7	21.0	21.3	19.5	20.8	19.8	21.1	21.4
	3H	21.3	22.4	21.7	22.8	23.2	21.5	22.7	21.9	23.0	23.4
	4H	22.2	23.2	22.6	23.6	24.0	22.5	23.6	22.9	23.9	24.4
	6H	22.9	23.9	23.4	24.3	24.7	23.3	24.3	23.8	24.7	25.1
	8H	23.2	24.1	23.7	24.6	25.0	23.7	24.6	24.2	25.1	25.5
	12H	23.6	24.4	24.1	24.9	25.3	24.1	25.0	24.6	25.4	25.9
8H	4H	22.5	23.4	23.0	23.8	24.3	22.8	23.7	23.3	24.1	24.6
	6H	23.5	24.2	23.9	24.7	25.2	23.8	24.6	24.3	25.1	25.6
	8H	23.9	24.6	24.4	25.1	25.6	24.4	25.0	24.9	25.5	26.0
	12H	24.4	25.0	24.9	25.5	26.1	24.9	25.5	25.5	26.0	26.6
12H	4H	22.6	23.4	23.0	23.8	24.3	22.8	23.7	23.3	24.1	24.6
	6H	23.6	24.2	24.1	24.7	25.3	23.9	24.6	24.4	25.1	25.6
	8H	24.1	24.7	24.6	25.2	25.8	24.5	25.1	25.1	25.6	26.2
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.1 / - 0.2				
2.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 1837 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.1)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.600m [K=1.0000]
Remarks: LM79

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.2313A P:24.83W PF:0.8918 Lamp Flux:1836.69x1 lm		
NAME: 14寸超薄双边-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

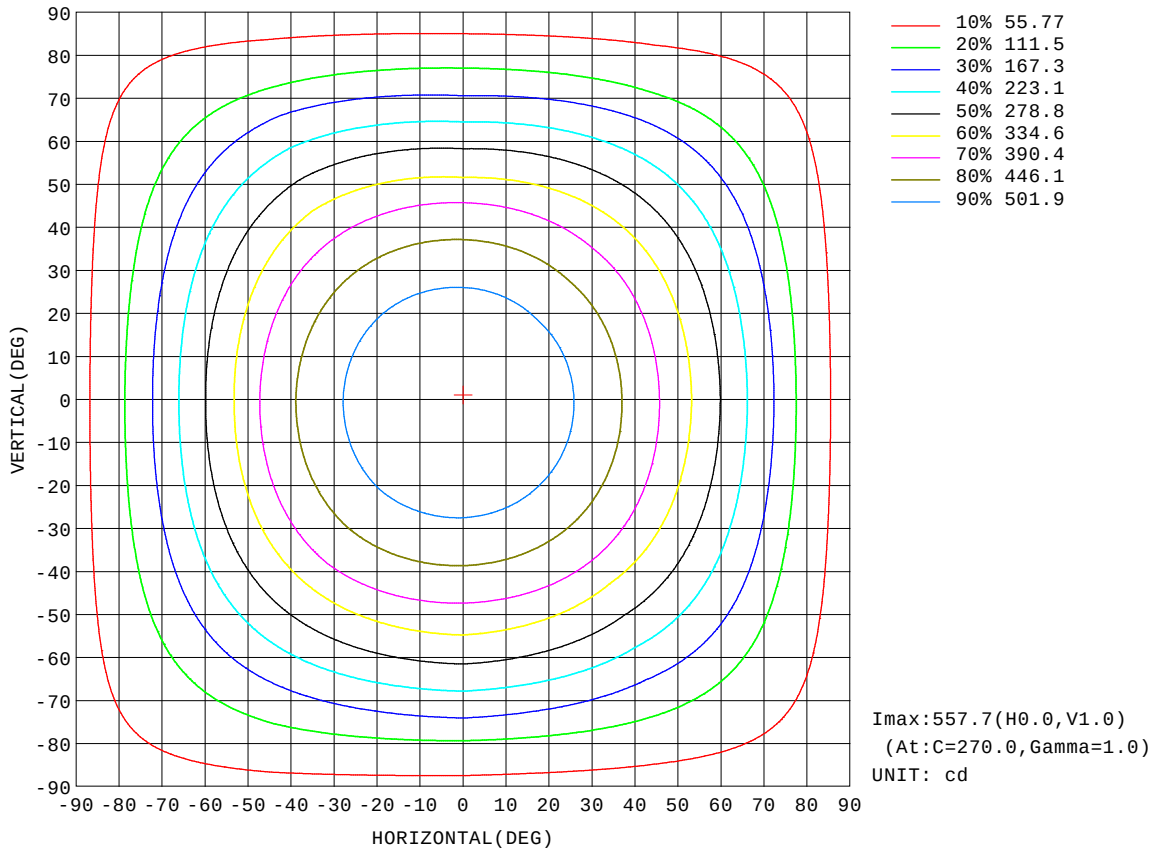
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	55	43	35	54	42	35	52	42	35	29
0.80	64	52	45	63	52	44	61	51	44	37
1.00	73	61	53	71	60	53	69	62	52	45
1.25	80	69	61	78	68	60	75	66	60	52
1.50	85	74	67	83	73	66	80	71	65	57
2.00	92	82	75	90	81	75	86	79	73	64
2.50	96	87	81	94	86	80	89	83	78	68
3.00	99	92	86	97	90	84	93	87	82	73
4.00	104	97	92	101	95	90	96	92	87	78
5.00	106	101	96	104	99	94	99	95	91	81
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.600m [K=1.0000]
Remarks: LM79

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.2313A P:24.83W PF:0.8918 Lamp Flux:1836.69x1 lm		
NAME: 14寸超薄双边-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

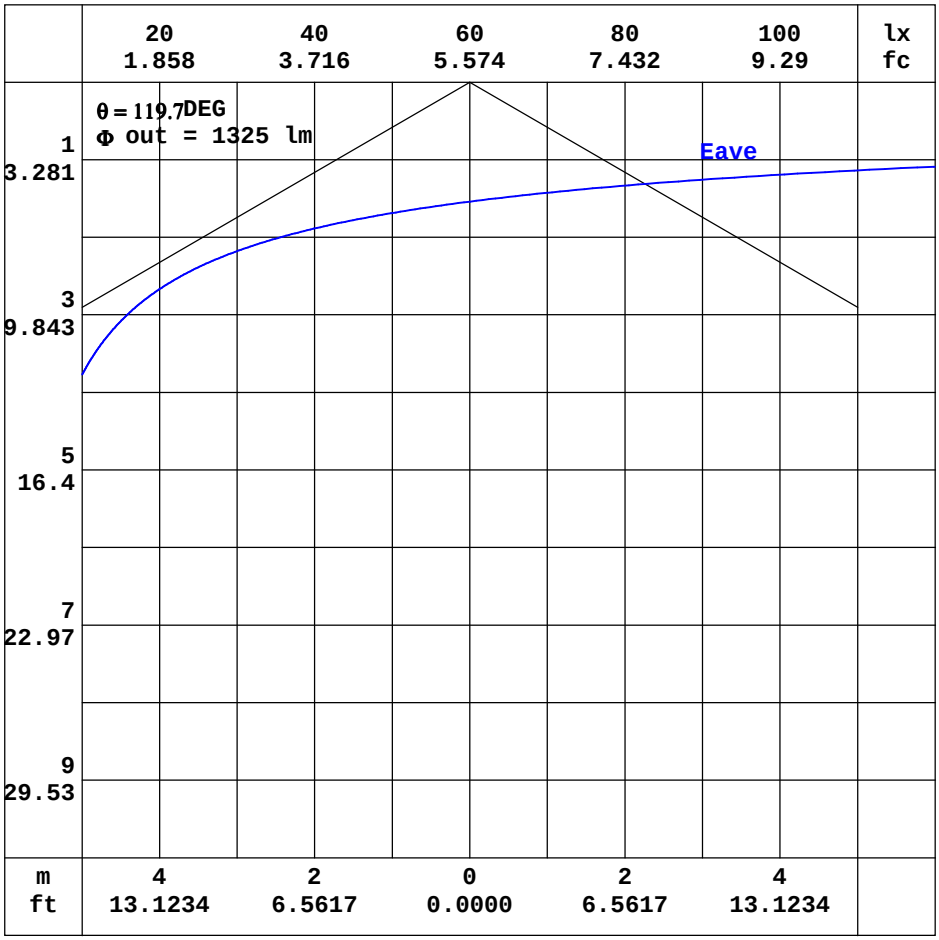


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.600m [K=1.0000]
Remarks: LM79

AAI CURVES

Test:U:120.3V I:0.2313A P:24.83W PF:0.8918 Lamp Flux:1836.69x1 lm		
NAME: 14寸超薄双边-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



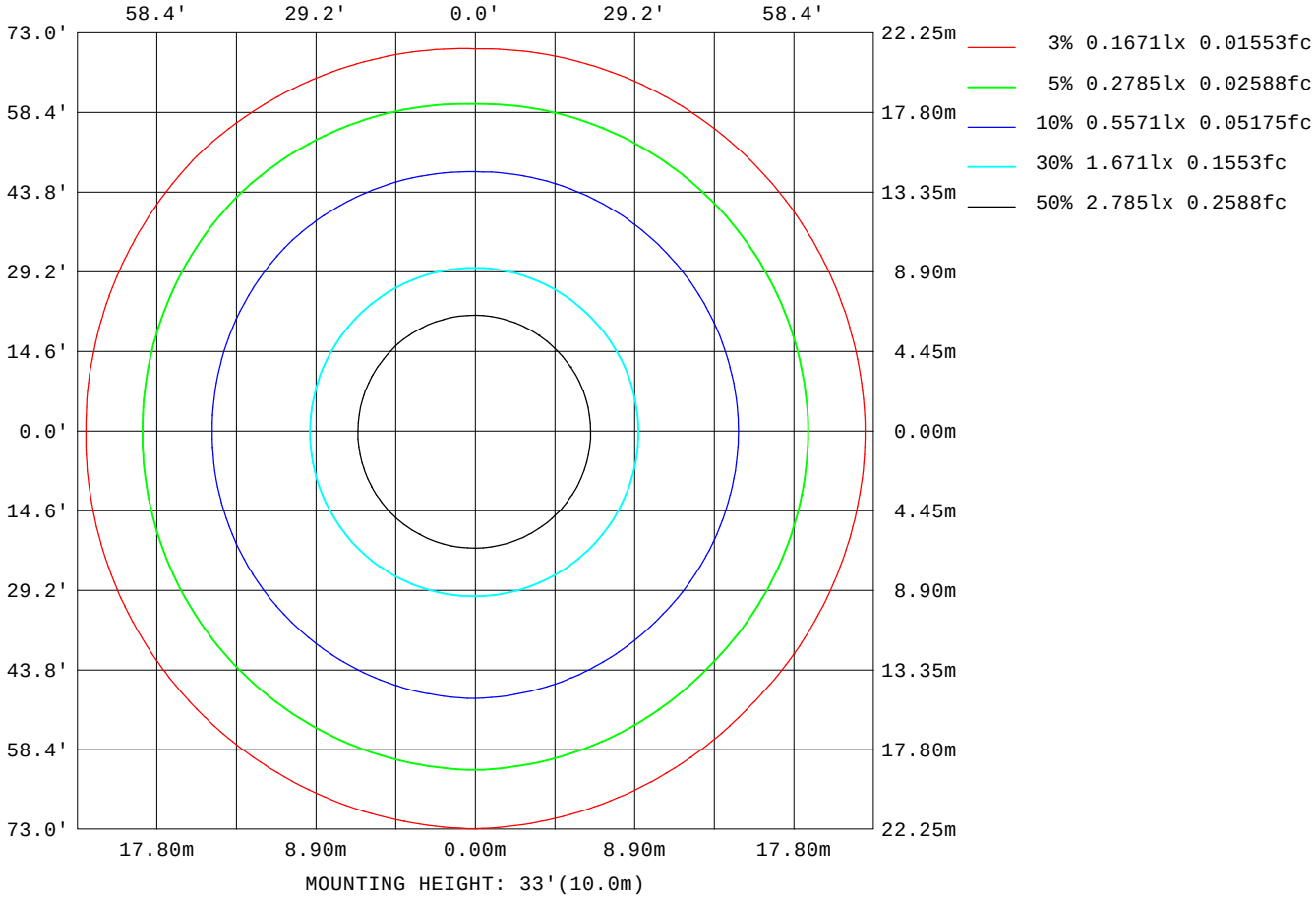
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.600m [K=1.0000]
Remarks: LM79

ISOLUX DIAGRAM

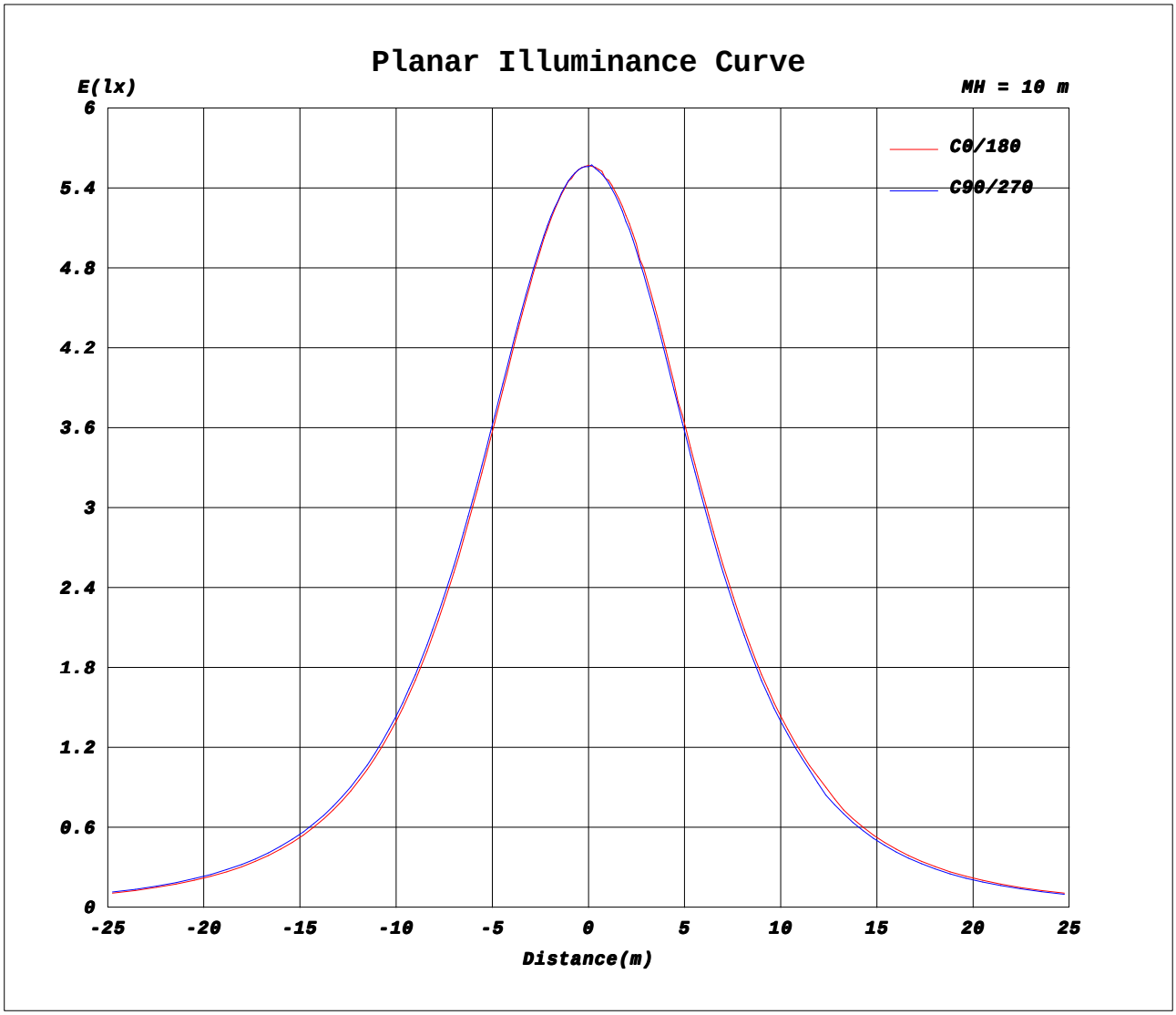
Test:U:120.3V I:0.2313A P:24.83W PF:0.8918 Lamp Flux:1836.69x1 lm		
NAME: 14寸超薄双边-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.600m [K=1.0000]
Remarks: LM79

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.600m [K=1.0000]
Remarks: LM79

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.2313A P:24.83W PF:0.8918 Lamp Flux:1836.69x1 lm		
NAME: 14寸超薄双边-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	45	90	135	180	225	270	315
0	557	558	556	556	557	558	556	556
5	554	555	555	555	554	556	554	553
10	548	549	550	551	551	550	547	546
15	538	539	541	543	540	541	538	535
20	524	526	529	531	531	528	524	521
25	505	508	512	515	510	510	506	502
30	483	487	491	494	493	489	484	480
35	457	462	467	470	468	463	458	454
40	428	433	438	442	439	434	429	424
45	395	401	407	410	406	401	395	390
50	359	366	372	376	370	364	352	353
55	320	316	333	326	320	324	306	313
60	278	275	292	284	277	281	263	270
65	233	231	249	241	233	236	218	225
70	188	186	204	195	187	190	172	180
75	145	141	160	150	142	145	128	125
80	92.1	98.9	107	108	101	91.9	88.1	85.1
85	58.8	63.6	71.1	71.5	66.4	58.4	55.5	53.1
90	34.5	38.9	43.5	44.8	41.0	38.1	35.4	34.3
95	20.4	27.8	27.5	32.7	26.2	30.7	23.1	27.1
100	14.5	21.8	21.0	27.1	22.0	27.1	20.7	22.2
105	5.83	15.8	18.0	21.5	19.3	23.1	18.1	17.0
110	5.80	2.85	14.7	16.3	16.7	18.5	15.4	12.7
115	2.95	0.00	12.4	3.99	14.1	15.4	4.69	9.62
120	0.38	0.00	10.9	1.47	3.78	12.9	2.56	7.73
125	0.00	0.00	8.95	0.00	1.54	10.6	0.25	5.92
130	0.00	0.00	6.55	0.00	0.00	7.86	0.00	4.02
135	0.00	0.00	3.70	0.00	0.00	4.56	0.00	1.12
140	0.00	0.00	0.32	0.00	0.00	1.30	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.600m [K=1.0000]
Remarks: LM79