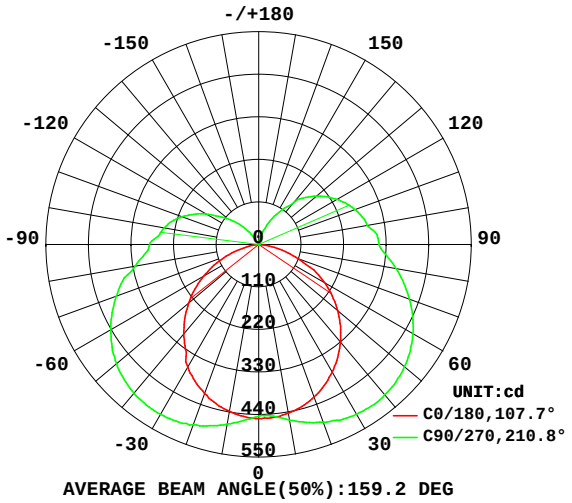
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.4V I:0.2246A P:26.61W PF:0.9844 Lamp Flux:2646.17x1 lm		
NAME: I-VBDF-25W-TD/DV-5CCT-L24"	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL	SUR.:	PROTECTION ANGLE:

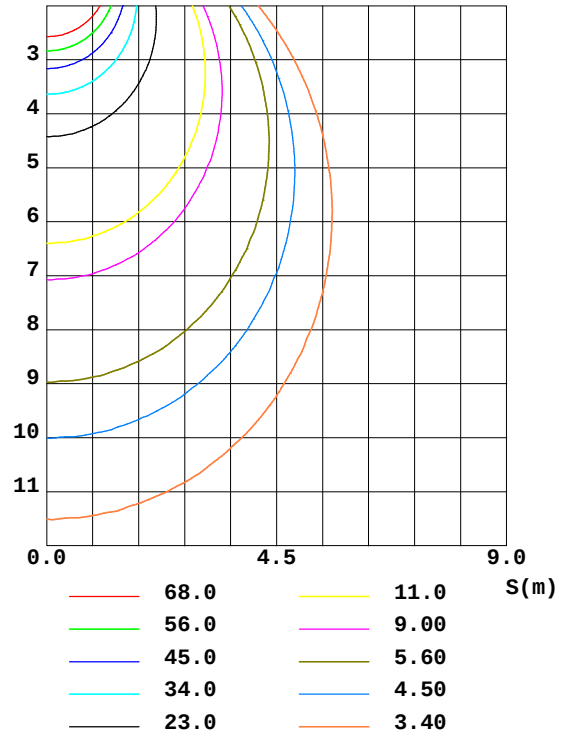
DATA OF LAMP		PHOTOMETRIC DATA Eff: 99.43 lm/W			
MODEL		Imax(cd)	510.6	S/MH(C0/180)	1.26
NOMINAL POWER(W)	26	LOR(%)	100.0	S/MH(C90/270)	1.71
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2646.2	η UP,DN(C0-180)	12.9,39.0
NOMINAL FLUX(lm)	2646.17	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	9.1,39.1
LAMPS INSIDE	1	η up(%)	21.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120.4	η down(%)	78.1	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):159.2 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.500m [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	443.1	460.4	461.5	438.4	437.6	457.1	471.6	474.5	0- 10	43.18	43.18	1.63,1.63
20	419.3	470.1	489.4	437.9	410.2	457.1	496.3	492.1	10- 20	130.0	173.1	6.54,6.54
30	380.6	468.2	507.0	429.3	366.9	446.5	507.7	495.8	20- 30	210.9	384.0	14.5,14.5
40	329.4	452.3	507.3	408.0	301.6	421.3	501.8	482.0	30- 40	275.3	659.4	24.9,24.9
50	266.9	421.5	492.0	372.8	236.5	383.1	479.9	451.3	40- 50	315.4	974.8	36.8,36.8
60	196.3	375.4	461.0	315.3	164.5	331.1	441.5	405.0	50- 60	325.3	1300	49.1,49.1
70	109.0	307.9	415.2	261.3	89.12	272.9	392.2	349.2	60- 70	303.5	1604	60.6,60.6
80	34.73	245.7	360.6	210.5	17.91	214.8	324.7	283.0	70- 80	257.1	1861	70.3,70.3
90	0	190.4	311.4	195.1	0	187.0	282.4	221.0	80- 90	205.2	2066	78.1,78.1
100	0	177.5	285.4	154.7	0	137.6	248.6	190.2	90-100	177.6	2243	84.8,84.8
110	0	133.8	265.5	148.1	0	118.4	210.9	107.3	100-110	144.1	2388	90.2,90.2
120	0	121.2	234.0	131.3	0	82.39	158.3	70.73	110-120	111.3	2499	94.4,94.4
130	0	99.90	195.1	105.0	0	20.00	102.4	36.93	120-130	76.52	2575	97.3,97.3
140	0	72.96	143.3	65.12	0	0	52.35	7.844	130-140	43.57	2619	99,99
150	0	43.66	88.63	27.56	0	0	0	2.542	140-150	19.38	2638	99.7,99.7
160	0	20.65	40.50	0	0	0	0	2.319	150-160	6.617	2645	100,100
170	0	0	7.573	0	0	0	0	0	160-170	1.207	2646	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0208	2646	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:2026-09-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks: LM79

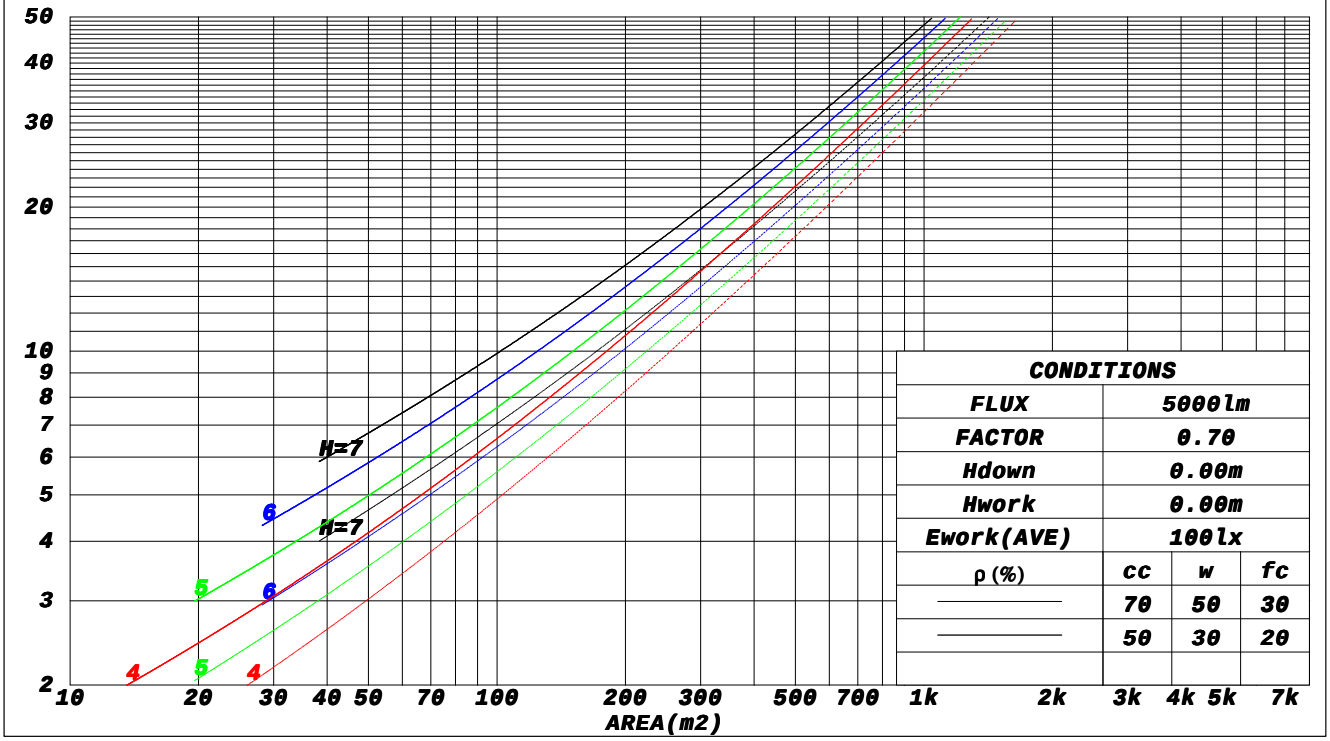
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.4V I:0.2246A P:26.61W PF:0.9844 Lamp Flux:2646.17x1 lm		
NAME: 24寸方形L+U-BN-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	1.14	1.14	1.14	1.09	1.09	1.09	.99	.99	.99	.90	.90	.90	.82	.82	.82	.78
1.0	.94	.89	.84	.90	.85	.80	.81	.78	.74	.74	.71	.68	.67	.64	.62	.58
2.0	.80	.72	.66	.76	.69	.63	.69	.63	.58	.63	.58	.54	.56	.53	.49	.46
3.0	.69	.60	.53	.66	.58	.51	.60	.53	.47	.54	.49	.44	.49	.44	.40	.37
4.0	.61	.51	.44	.58	.49	.42	.53	.45	.39	.48	.41	.36	.43	.38	.34	.31
5.0	.54	.44	.37	.51	.42	.36	.47	.39	.33	.42	.36	.31	.38	.33	.29	.26
6.0	.48	.38	.32	.46	.37	.31	.42	.34	.29	.38	.32	.27	.34	.29	.25	.22
7.0	.43	.34	.28	.41	.33	.27	.38	.30	.25	.34	.28	.23	.31	.26	.22	.19
8.0	.39	.30	.24	.37	.29	.23	.34	.27	.22	.31	.25	.21	.29	.23	.19	.17
9.0	.36	.27	.21	.34	.26	.21	.31	.24	.20	.29	.23	.18	.26	.21	.17	.15
10.0	.33	.25	.19	.31	.24	.19	.29	.22	.18	.27	.21	.17	.24	.19	.15	.14

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:2026-09-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks: LM79

WEC AND CCEC

Test:U:120.4V I:0.2246A P:26.61W PF:0.9844 Lamp Flux:2646.17x1 lm		
NAME: 24寸方形L+U-BN-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	.392	.223	.071	.378	.216	.069	.352	.202	.065	.328	.189	.061	.306	.177	.057	
2.0	.338	.185	.057	.326	.179	.055	.302	.168	.052	.280	.157	.049	.260	.147	.046	
3.0	.300	.160	.048	.288	.154	.046	.267	.145	.044	.247	.135	.042	.229	.127	.039	
4.0	.269	.140	.041	.259	.136	.040	.240	.127	.038	.222	.119	.036	.205	.111	.034	
5.0	.245	.125	.036	.235	.121	.035	.217	.113	.033	.201	.106	.032	.185	.099	.030	
6.0	.224	.112	.032	.215	.109	.031	.199	.102	.030	.184	.096	.028	.170	.089	.027	
7.0	.206	.102	.029	.198	.099	.028	.183	.093	.027	.170	.087	.025	.156	.081	.024	
8.0	.191	.093	.026	.184	.091	.026	.170	.085	.024	.157	.080	.023	.145	.075	.022	
9.0	.178	.086	.024	.171	.083	.023	.159	.078	.022	.147	.074	.021	.136	.069	.020	
10.0	.166	.080	.022	.160	.077	.022	.149	.073	.020	.137	.068	.019	.127	.064	.018	

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	.358	.358	.358	.306	.306	.306	.209	.209	.209	.120	.120	.120	.038	.038	.038	
1.0	.354	.324	.296	.303	.278	.255	.207	.191	.176	.119	.111	.103	.038	.036	.033	
2.0	.348	.301	.262	.298	.259	.226	.204	.179	.158	.118	.104	.093	.038	.034	.030	
3.0	.341	.285	.241	.292	.246	.209	.201	.171	.146	.116	.100	.086	.037	.032	.028	
4.0	.333	.273	.227	.286	.236	.197	.197	.164	.139	.114	.096	.082	.037	.031	.027	
5.0	.325	.263	.217	.280	.228	.189	.193	.159	.133	.112	.093	.079	.036	.030	.026	
6.0	.318	.255	.210	.273	.221	.183	.189	.155	.129	.109	.091	.077	.035	.030	.025	
7.0	.311	.249	.205	.268	.216	.179	.185	.151	.127	.107	.089	.075	.035	.029	.025	
8.0	.304	.243	.201	.262	.211	.175	.181	.148	.124	.105	.087	.074	.034	.029	.025	
9.0	.298	.238	.198	.257	.207	.173	.178	.145	.123	.104	.086	.073	.034	.028	.024	
10.0	.292	.234	.196	.252	.203	.171	.175	.143	.121	.102	.085	.072	.033	.028	.024	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks: LM79

Uncorrected UGR Table

Test:U:120.4V I:0.2246A P:26.61W PF:0.9844 Lamp Flux:2646.17x1 lm		
NAME: 24寸方形L+U-BN-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	16.7	18.1	17.3	18.7	19.3	19.6	21.0	20.2	21.5	22.2
3H	18.1	19.4	18.7	20.0	20.6	22.4	23.7	23.0	24.3	24.9
4H	18.6	19.8	19.2	20.4	21.1	24.0	25.1	24.6	25.8	26.5
6H	19.0	20.1	19.6	20.7	21.4	25.7	26.8	26.3	27.4	28.2
8H	19.0	20.1	19.6	20.7	21.5	26.6	27.7	27.3	28.3	29.1
12H	19.0	20.0	19.6	20.7	21.4	27.7	28.8	28.4	29.4	30.2
4H 2H	18.2	19.4	18.8	20.0	20.7	20.2	21.4	20.8	22.0	22.7
3H	19.9	21.0	20.6	21.6	22.4	23.2	24.2	23.8	24.9	25.6
4H	20.7	21.6	21.3	22.3	23.1	24.9	25.8	25.6	26.5	27.3
6H	21.2	22.1	21.9	22.8	23.6	26.8	27.7	27.5	28.4	29.2
8H	21.4	22.2	22.1	22.9	23.7	27.9	28.7	28.6	29.4	30.2
12H	21.5	22.2	22.2	22.9	23.8	29.1	29.8	29.8	30.6	31.4
8H 4H	22.0	22.8	22.7	23.5	24.3	25.2	26.0	25.9	26.7	27.6
6H	23.0	23.7	23.7	24.4	25.3	27.4	28.1	28.1	28.8	29.7
8H	23.4	24.0	24.2	24.8	25.7	28.7	29.3	29.4	30.0	30.9
12H	23.7	24.2	24.5	25.0	25.9	30.2	30.7	30.9	31.5	32.4
12H 4H	22.4	23.1	23.1	23.8	24.7	25.2	26.0	25.9	26.7	27.5
6H	23.7	24.3	24.4	25.0	25.9	27.5	28.1	28.3	28.9	29.8
8H	24.3	24.8	25.1	25.6	26.5	28.9	29.4	29.7	30.2	31.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
2.0H	+ 0.3 / - 0.5					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 2646 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.4)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks: LM79

UTILIZATION FACTORS TABLE

Test:U:120.4V I:0.2246A P:26.61W PF:0.9844 Lamp Flux:2646.17x1 lm		
NAME: 24寸方形L+U-BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

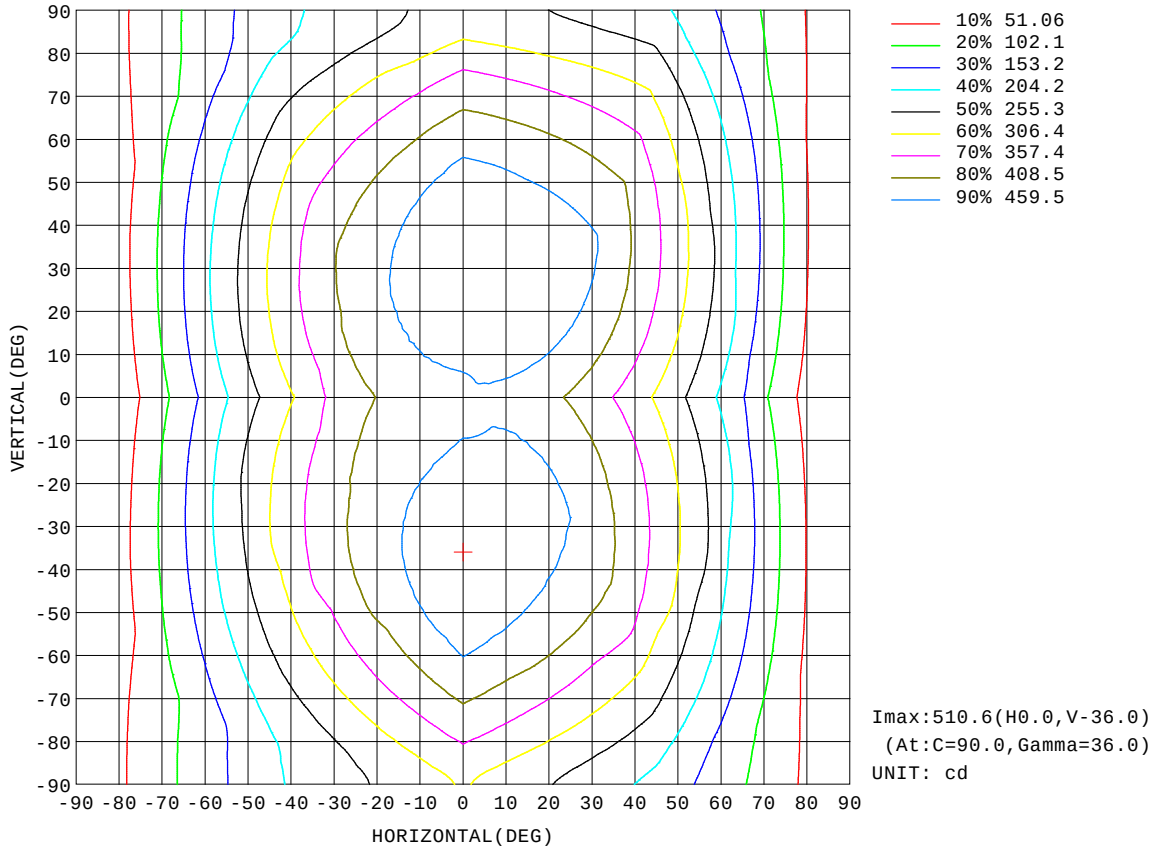
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	45	33	25	44	32	25	42	31	25	18
0.80	54	41	33	53	40	32	50	39	32	23
1.00	62	49	40	60	48	40	56	48	38	29
1.25	69	56	47	67	55	46	62	52	45	34
1.50	74	62	53	72	60	52	66	57	49	38
2.00	82	70	62	79	68	60	72	64	57	45
2.50	87	76	68	83	73	66	76	68	62	48
3.00	90	81	73	86	78	71	79	72	66	52
4.00	95	87	80	91	84	77	83	77	72	57
5.00	98	91	85	94	87	82	86	81	76	60
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:2026-09-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks: LM79

ISOCANDELA DIAGRAM

Test:U:120.4V I:0.2246A P:26.61W PF:0.9844 Lamp Flux:2646.17x1 lm		
NAME: 24寸方形L+U-BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

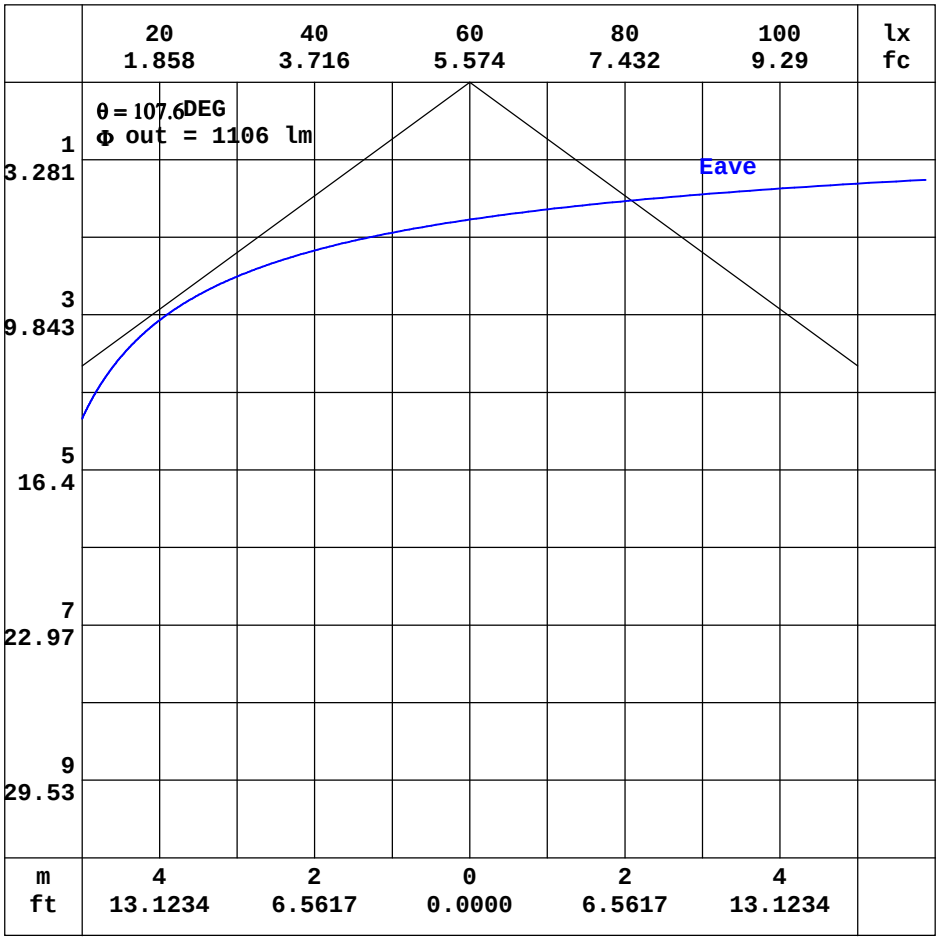


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks: LM79

AAI CURVES

Test:U:120.4V I:0.2246A P:26.61W PF:0.9844 Lamp Flux:2646.17x1 lm		
NAME: 24寸方形L+U-BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



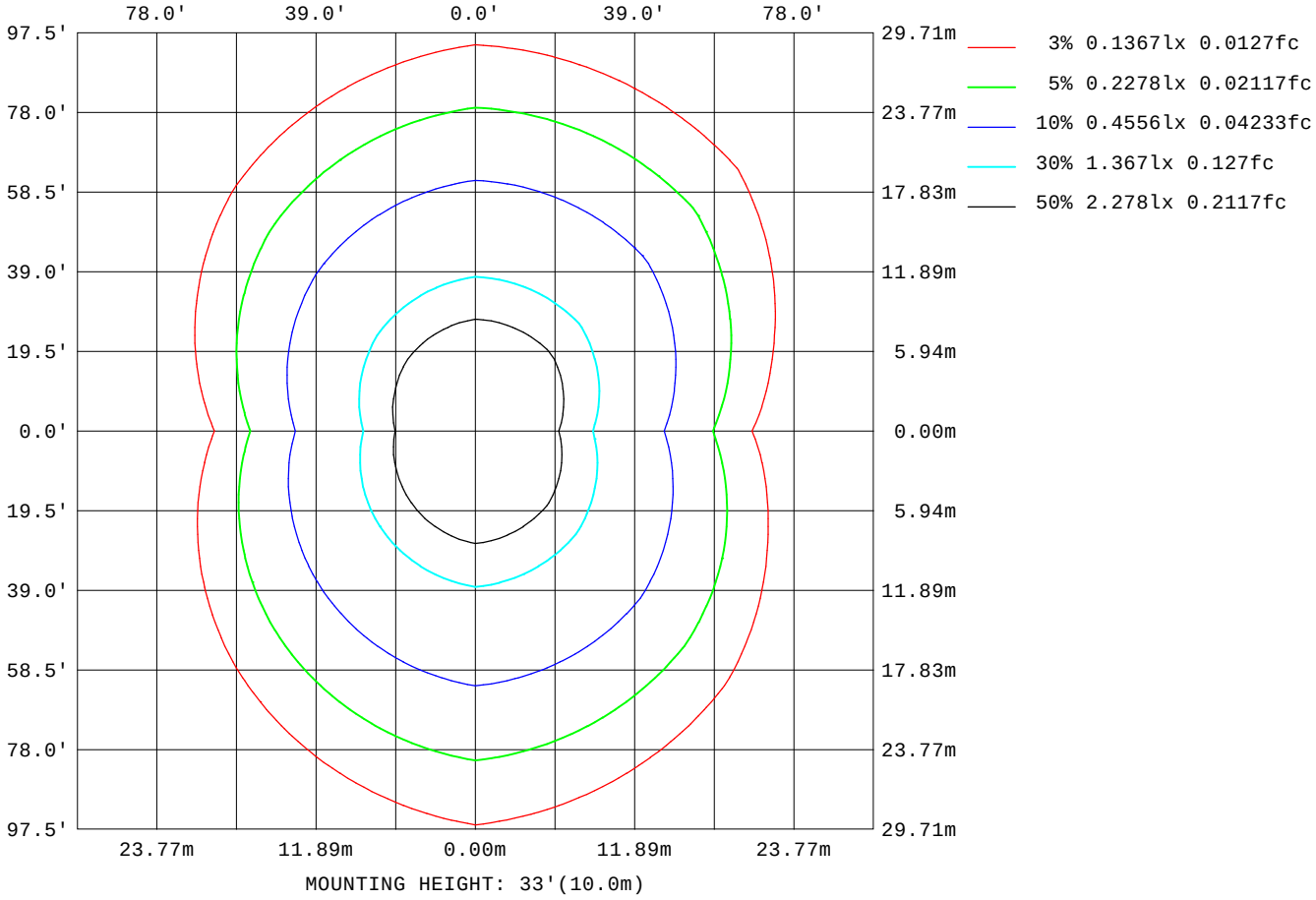
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks: LM79

ISOLUX DIAGRAM

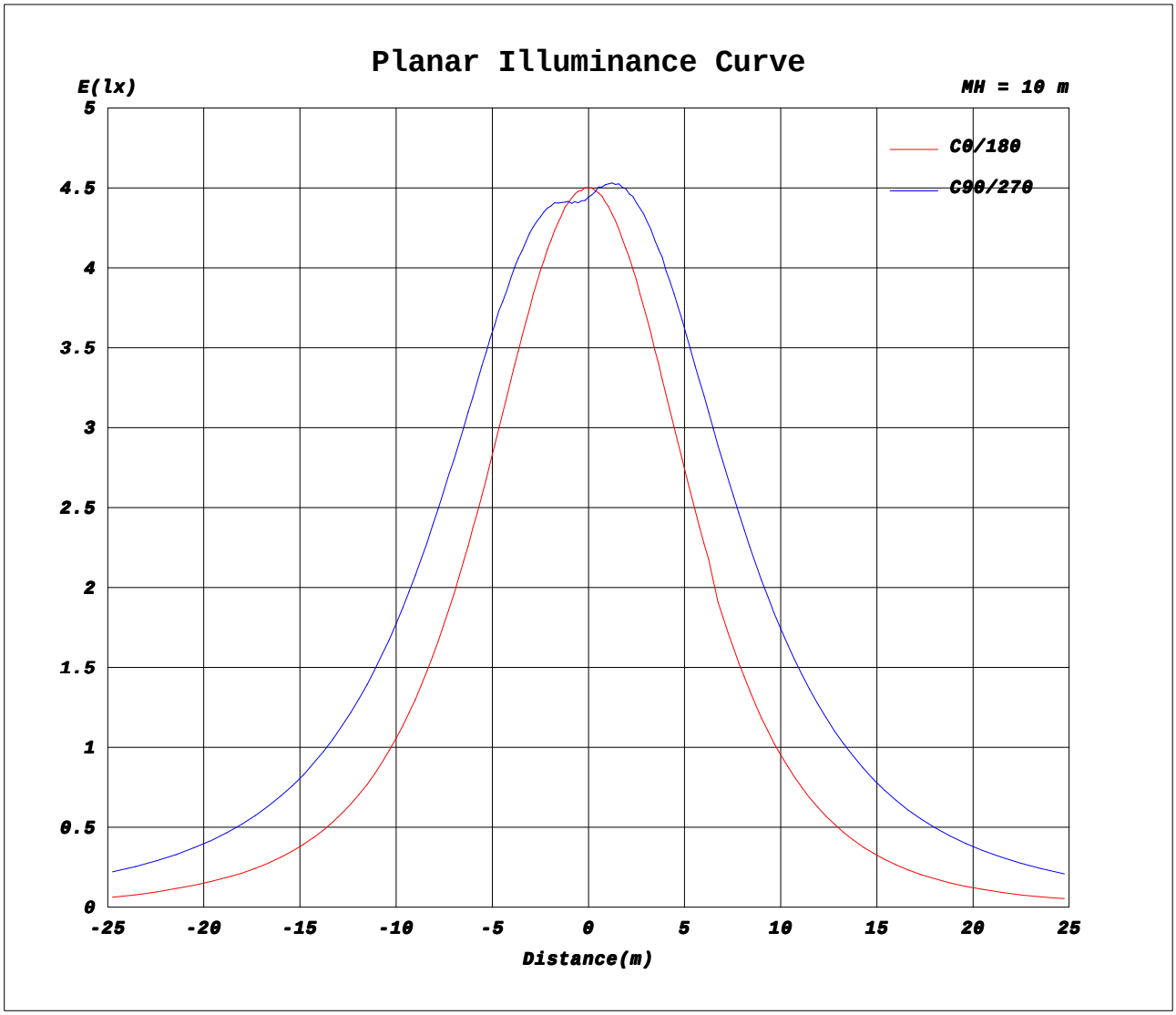
Test:U:120.4V I:0.2246A P:26.61W PF:0.9844 Lamp Flux:2646.17x1 lm		
NAME: 24寸方形L+U-BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.500m [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:2026-09-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks: LM79

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.4V I:0.2246A P:26.61W PF:0.9844 Lamp Flux:2646.17x1 lm		
NAME: 24寸方形L+U-BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

Table--1 UNIT: cd

C(DEG) / γ (DEG)	0	45	90	135	180	225	270	315
0	450	449	444	447	450	449	444	447
5	449	453	446	438	446	453	457	461
10	443	460	461	438	438	457	472	475
15	434	468	476	439	426	459	485	484
20	419	470	489	438	410	457	496	492
25	402	472	501	435	390	453	505	495
30	381	468	507	429	367	447	508	496
35	356	463	509	421	330	436	507	490
40	329	452	507	408	302	421	502	482
45	300	439	502	393	270	405	493	469
50	267	422	492	373	237	383	480	451
55	232	401	479	345	201	358	463	430
60	196	375	461	315	164	331	442	405
65	158	343	440	288	127	303	418	378
70	109	308	415	261	89.1	273	392	349
75	71.2	277	389	235	52.2	243	364	317
80	34.7	246	361	211	17.9	215	325	283
85	2.06	215	332	197	0.00	192	296	249
90	0.00	190	311	195	0.00	187	282	221
95	0.00	184	307	179	0.00	173	260	204
100	0.00	178	285	155	0.00	138	249	190
105	0.00	150	277	151	0.00	128	233	153
110	0.00	134	265	148	0.00	118	211	107
115	0.00	129	251	141	0.00	103	186	88.5
120	0.00	121	234	131	0.00	82.4	158	70.7
125	0.00	112	215	119	0.00	52.7	128	53.6
130	0.00	99.9	195	105	0.00	20.0	102	36.9
135	0.00	86.7	172	86.0	0.00	0.00	77.4	21.2
140	0.00	73.0	143	65.1	0.00	0.00	52.3	7.84
145	0.00	58.6	113	45.4	0.00	0.00	23.3	1.19
150	0.00	43.7	88.6	27.6	0.00	0.00	0.00	2.54
155	0.00	31.7	63.8	14.7	0.00	0.00	0.00	3.72
160	0.00	20.7	40.5	0.00	0.00	0.00	0.00	2.32
165	0.00	1.85	23.2	0.00	0.00	0.00	0.00	1.51
170	0.00	0.00	7.57	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:2026-09-14

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.269
Humidity:65.0%
Test Distance:7.500m [K=1.0000]
Remarks: LM79