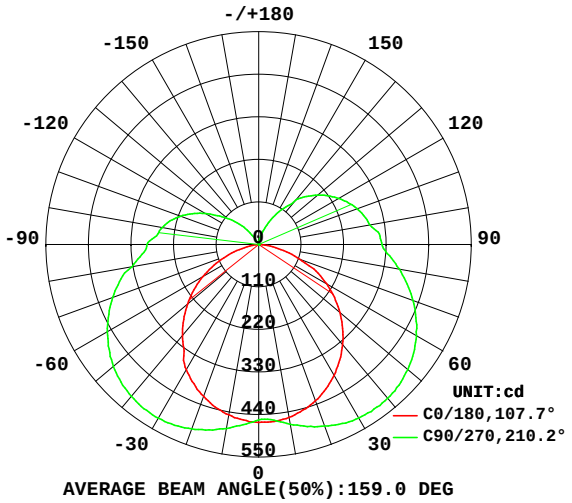
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.4V I:0.2201A P:26.07W PF:0.9839 Lamp Flux:2707.03x1 lm		
NAME: I-VBDF-25W-TD/DV-5CCT-L24"	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL	SUR.:	PROTECTION ANGLE:

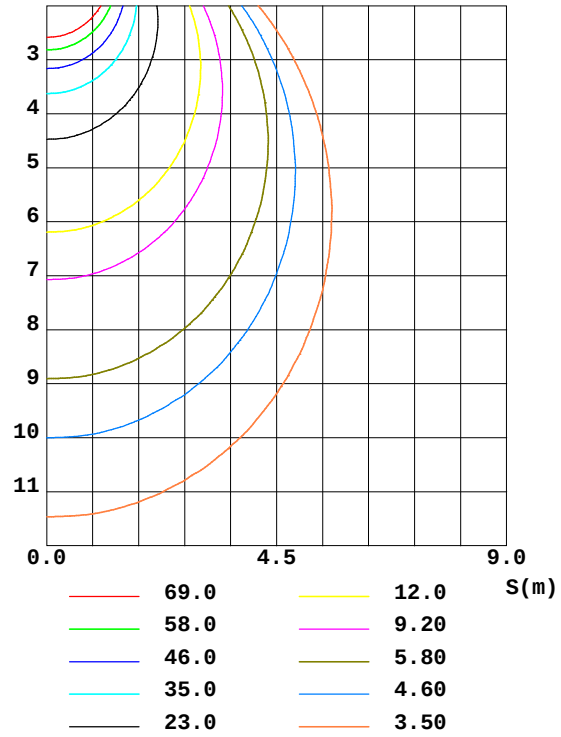
DATA OF LAMP		PHOTOMETRIC DATA Eff: 103.84 lm/W			
MODEL		Imax(cd)	521.6	S/MH(C0/180)	1.26
NOMINAL POWER(W)	26	LOR(%)	100.0	S/MH(C90/270)	1.72
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2707.0	η UP,DN(C0-180)	12.9,39.0
NOMINAL FLUX(lm)	2707.03	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	9.1,39.0
LAMPS INSIDE	1	η up(%)	21.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120.3	η down(%)	78.1	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):159.0 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	453.7	471.3	472.3	447.8	447.4	467.2	483.2	485.4	0- 10	44.15	44.15	1.63,1.63
20	429.8	481.9	499.4	448.3	417.9	465.8	507.7	503.3	10- 20	132.9	177.1	6.54,6.54
30	390.5	479.1	518.3	438.7	374.3	454.7	518.9	506.7	20- 30	215.6	392.6	14.5,14.5
40	337.9	463.1	519.0	416.5	307.5	429.8	512.3	493.1	30- 40	281.4	674.0	24.9,24.9
50	274.5	432.2	503.4	380.8	240.6	389.7	490.6	461.4	40- 50	322.4	996.4	36.8,36.8
60	202.7	385.0	470.9	322.0	166.9	337.1	452.1	415.7	50- 60	332.7	1329	49.1,49.1
70	113.4	316.2	424.9	266.5	89.52	277.7	401.3	357.4	60- 70	310.7	1640	60.6,60.6
80	37.48	252.6	369.8	215.2	17.31	218.7	332.4	290.0	70- 80	263.3	1903	70.3,70.3
90	0	195.4	318.8	199.5	0	190.9	288.7	225.9	80- 90	210.0	2113	78.1,78.1
100	0	181.8	292.0	158.5	0	151.8	253.6	194.4	90-100	181.5	2295	84.8,84.8
110	0	136.5	271.2	151.6	0	120.8	215.0	109.7	100-110	147.4	2442	90.2,90.2
120	0	124.3	238.7	134.7	0	84.34	161.1	72.92	110-120	113.7	2556	94.4,94.4
130	0	102.3	199.0	107.8	0	21.47	105.2	38.68	120-130	78.41	2634	97.3,97.3
140	0	74.78	151.5	67.31	0	0	54.95	8.778	130-140	44.84	2679	99,99
150	0	44.90	90.67	28.70	0	0	0	2.747	140-150	20.02	2699	99.7,99.7
160	0	21.39	41.56	0	0	0	0	2.488	150-160	6.831	2706	100,100
170	0	0	7.983	0	0	0	0	0	160-170	1.290	2707	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0226	2707	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

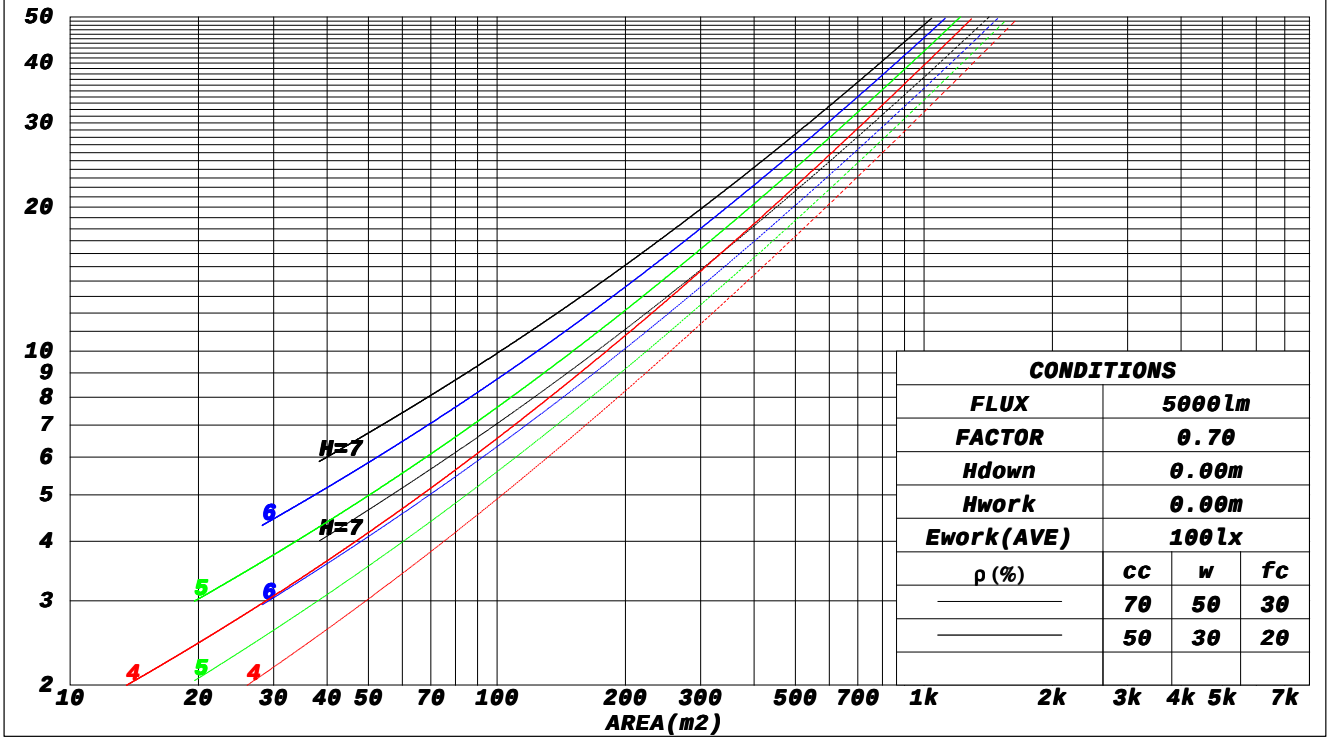
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.4V I:0.2201A P:26.07W PF:0.9839 Lamp Flux:2707.03x1 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	.48	.44	.49	.44	.40	.37
4.0	.61	.51	.44	.58	.49	.42	.52	.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	.13

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:0.2201A P:26.07W PF:0.9839 Lamp Flux:2707.03x1 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	.178	.057	
2.0	.338	.185	.057	.326	.179	.055	.302	.168	.052	.280	.157	.049	.260	.147	.046	
3.0	.300	.160	.048	.288	.155	.047	.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	.355	.324	.296	.303	.278	.255	.208	.191	.176	.119	.111	.103	.038	.036	.033	
2.0	.348	.301	.262	.298	.259	.227	.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	.326	.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	.239	.198	.257	.207	.173	.178	.146	.123	.104	.086	.073	.034	.028	.024	
10.0	.292	.234	.196	.252	.204	.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:0.2201A P:26.07W PF:0.9839 Lamp Flux:2707.03x1 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	16.9	18.2	17.4	18.8	19.4	19.7	21.0	20.2	21.6	22.3
3H	18.3	19.5	18.8	20.1	20.8	22.5	23.7	23.1	24.3	25.0
4H	18.8	20.0	19.4	20.6	21.3	24.0	25.2	24.7	25.8	26.5
6H	19.1	20.2	19.7	20.9	21.6	25.8	26.9	26.4	27.5	28.2
8H	19.2	20.2	19.8	20.9	21.6	26.7	27.8	27.3	28.4	29.2
12H	19.2	20.2	19.8	20.8	21.6	27.8	28.8	28.4	29.5	30.2
4H 2H	18.3	19.5	18.9	20.1	20.8	20.3	21.4	20.9	22.1	22.8
3H	20.0	21.1	20.7	21.7	22.5	23.3	24.3	23.9	24.9	25.7
4H	20.8	21.8	21.5	22.4	23.2	25.0	25.9	25.6	26.6	27.4
6H	21.4	22.2	22.1	22.9	23.7	26.9	27.7	27.6	28.4	29.3
8H	21.5	22.3	22.3	23.1	23.9	28.0	28.8	28.7	29.5	30.3
12H	21.6	22.4	22.3	23.1	23.9	29.2	29.9	29.9	30.7	31.5
8H 4H	22.1	22.9	22.8	23.6	24.4	25.3	26.1	26.0	26.8	27.6
6H	23.1	23.8	23.9	24.5	25.4	27.5	28.2	28.2	28.9	29.8
8H	23.5	24.1	24.3	24.9	25.8	28.8	29.4	29.5	30.1	31.0
12H	23.8	24.4	24.6	25.1	26.0	30.2	30.8	31.0	31.5	32.5
12H 4H	22.5	23.2	23.2	23.9	24.8	25.3	26.1	26.0	26.8	27.6
6H	23.8	24.4	24.5	25.1	26.0	27.6	28.2	28.4	29.0	29.9
8H	24.4	24.9	25.2	25.7	26.6	29.0	29.5	29.7	30.3	31.2
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 2707 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.5)

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:0.2201A P:26.07W PF:0.9839 Lamp Flux:2707.03x1 lm		
NAME: 24寸方形L+U-BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

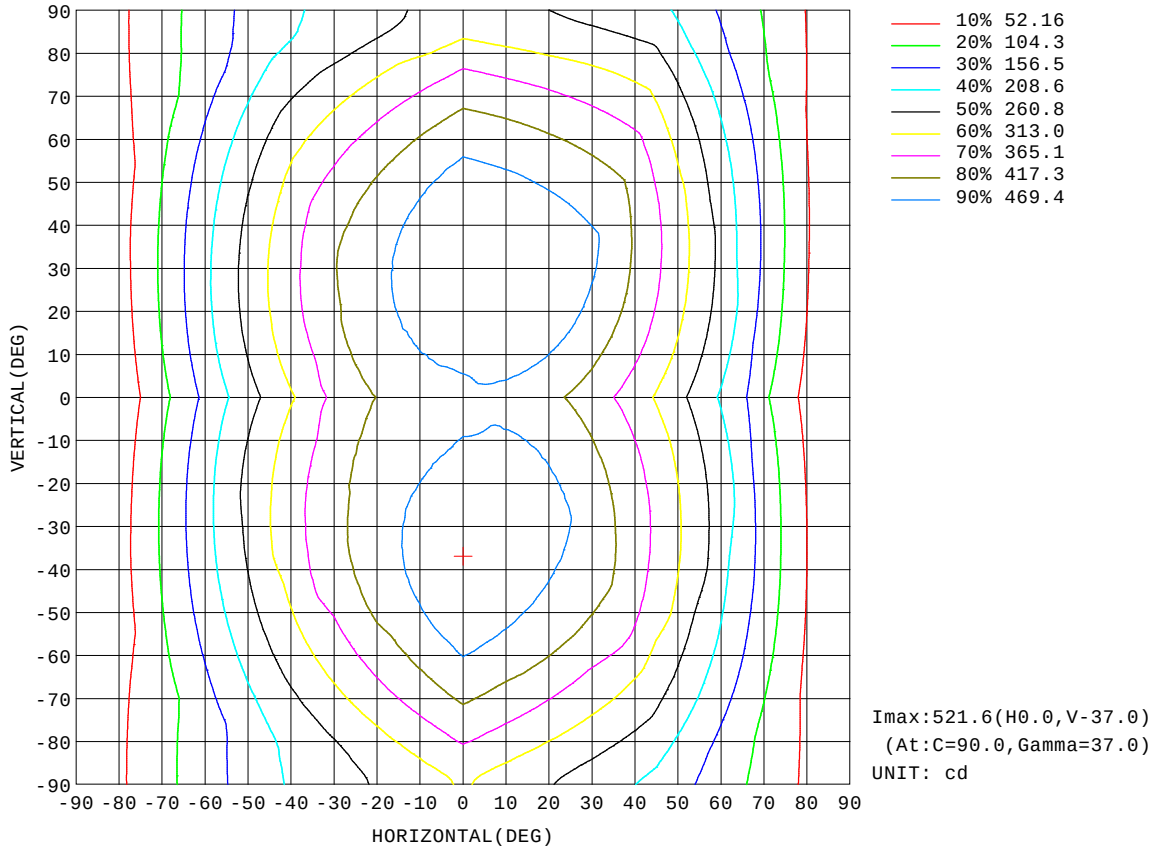
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	45	33	25	44	32	25	42	31	25	18
0.80	54	41	33	53	40	32	50	39	32	23
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	71	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:0.2201A P:26.07W PF:0.9839 Lamp Flux:2707.03x1 lm		
NAME: 24寸方形L+U-BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

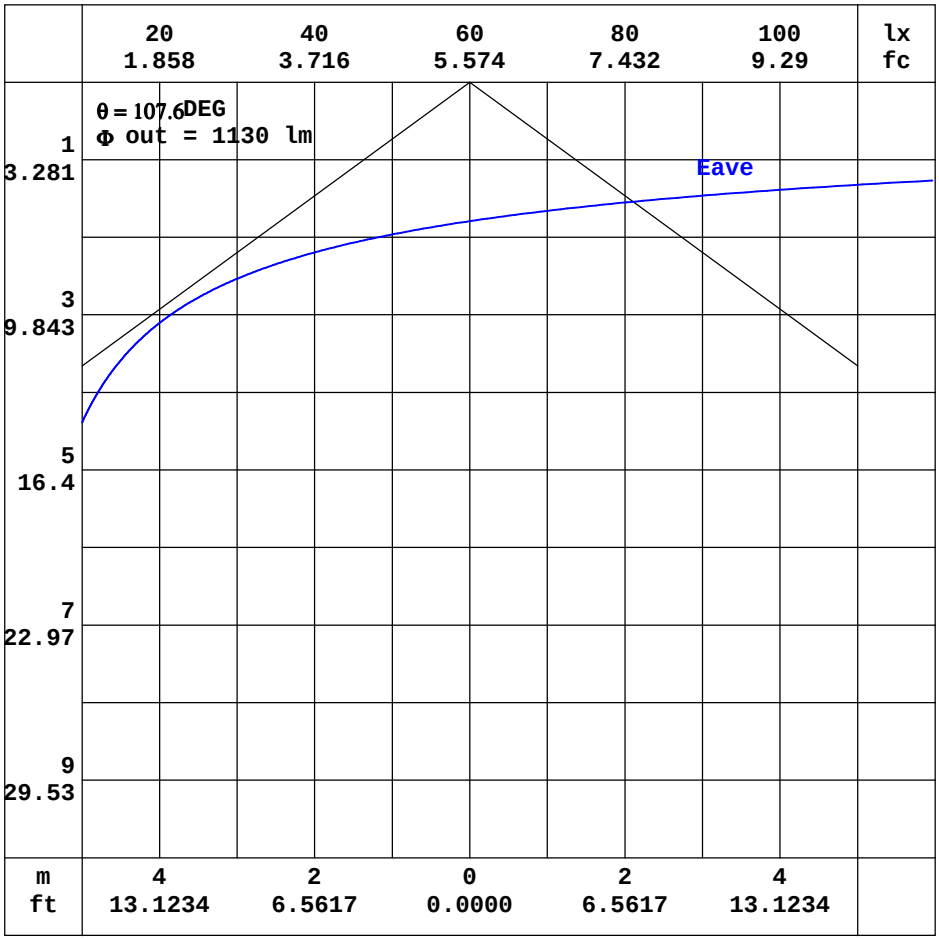


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-14

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:0.2201A P:26.07W PF:0.9839 Lamp Flux:2707.03x1 lm		
NAME: 24寸方形L+U-BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



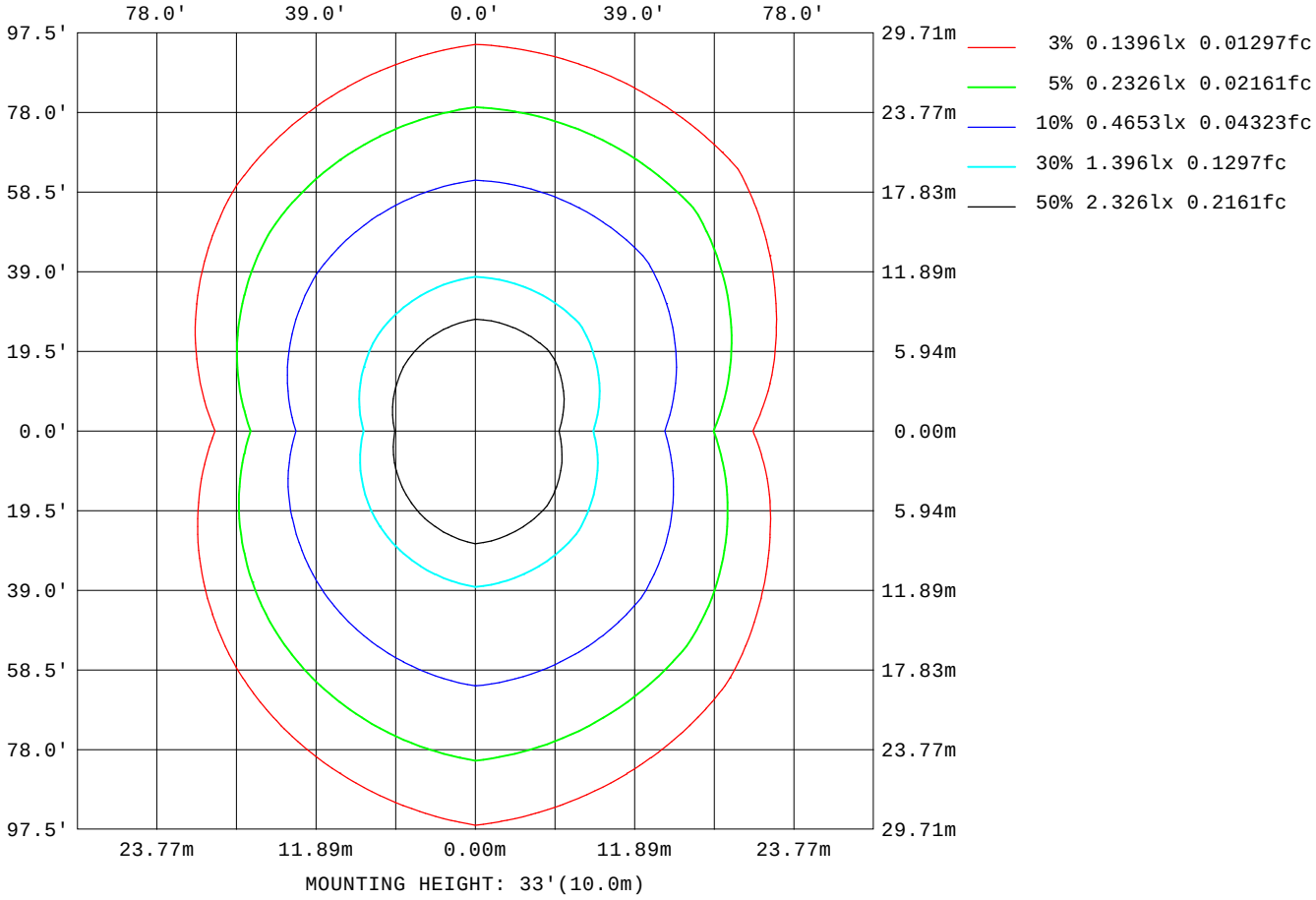
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

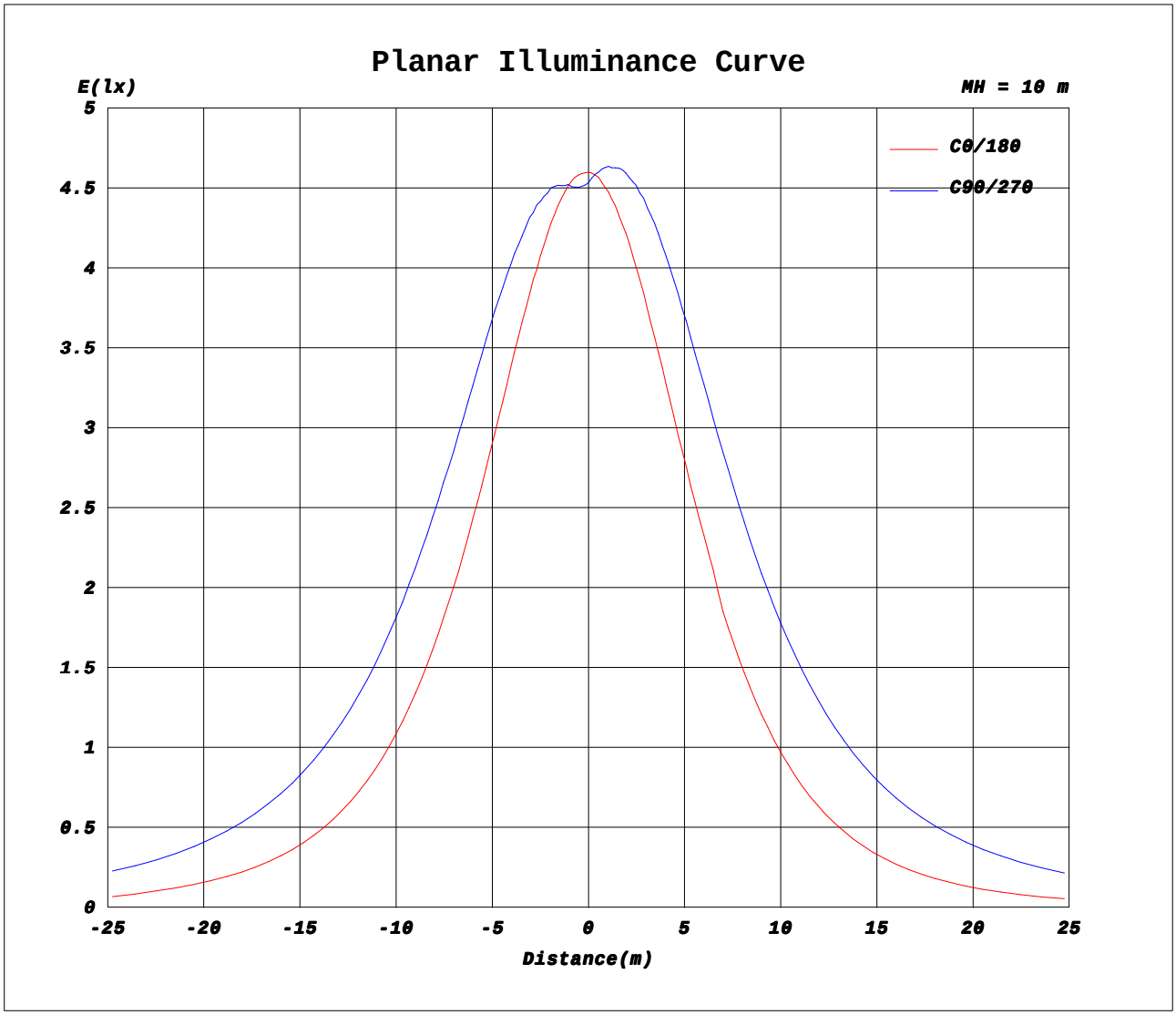
Test:U:120.4V I:0.2201A P:26.07W PF:0.9839 Lamp Flux:2707.03x1 lm		
NAME: 24寸方形L+U-BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



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:0.2201A P:26.07W PF:0.9839 Lamp Flux:2707.03x1 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

γ (DEG) \ C(DEG)	0	45	90	135	180	225	270	315
0	460	459	453	457	460	459	453	457
5	460	463	456	448	456	463	468	471
10	454	471	472	448	447	467	483	485
15	443	478	488	449	436	468	496	496
20	430	482	499	448	418	466	508	503
25	412	482	511	445	397	462	516	507
30	390	479	518	439	374	455	519	507
35	365	474	520	430	337	444	518	502
40	338	463	519	417	307	430	512	493
45	308	449	514	401	275	411	503	479
50	274	432	503	381	241	390	491	461
55	239	410	489	359	204	365	472	440
60	203	385	471	322	167	337	452	416
65	164	358	449	295	128	307	428	388
70	113	316	425	267	89.5	278	401	357
75	74.8	285	398	240	52.1	248	373	325
80	37.5	253	370	215	17.3	219	332	290
85	3.89	221	340	202	0.00	196	303	255
90	0.00	195	319	199	0.00	191	289	226
95	0.00	188	314	184	0.00	176	265	208
100	0.00	182	292	159	0.00	152	254	194
105	0.00	154	283	155	0.00	131	237	156
110	0.00	137	271	152	0.00	121	215	110
115	0.00	131	256	145	0.00	105	190	90.9
120	0.00	124	239	135	0.00	84.3	161	72.9
125	0.00	114	219	122	0.00	54.7	131	55.6
130	0.00	102	199	108	0.00	21.5	105	38.7
135	0.00	89.0	176	88.3	0.00	0.19	80.3	22.7
140	0.00	74.8	152	67.3	0.00	0.00	55.0	8.78
145	0.00	60.1	116	47.0	0.00	0.00	25.4	1.58
150	0.00	44.9	90.7	28.7	0.00	0.00	0.00	2.75
155	0.00	32.6	65.3	15.7	0.00	0.00	0.00	3.95
160	0.00	21.4	41.6	0.00	0.00	0.00	0.00	2.49
165	0.00	2.43	24.0	0.00	0.00	0.00	0.00	1.92
170	0.00	0.00	7.98	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