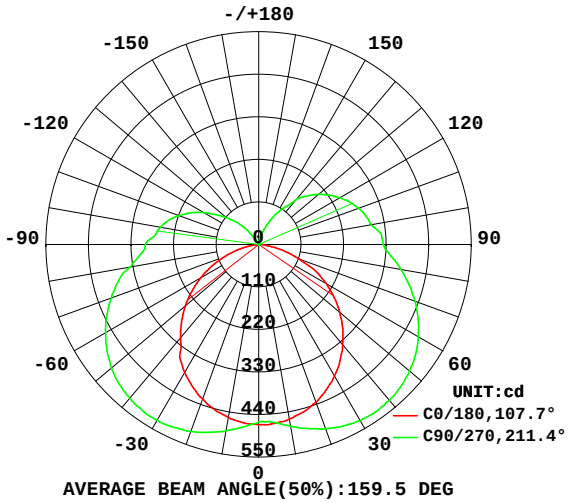
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.3V I:0.2188A P:25.90W PF:0.9838 Lamp Flux:2744.13x1 lm		
NAME: I-VBDF-25W-TD/DV-5CCT-L24"	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL	SUR.:	PROTECTION ANGLE:

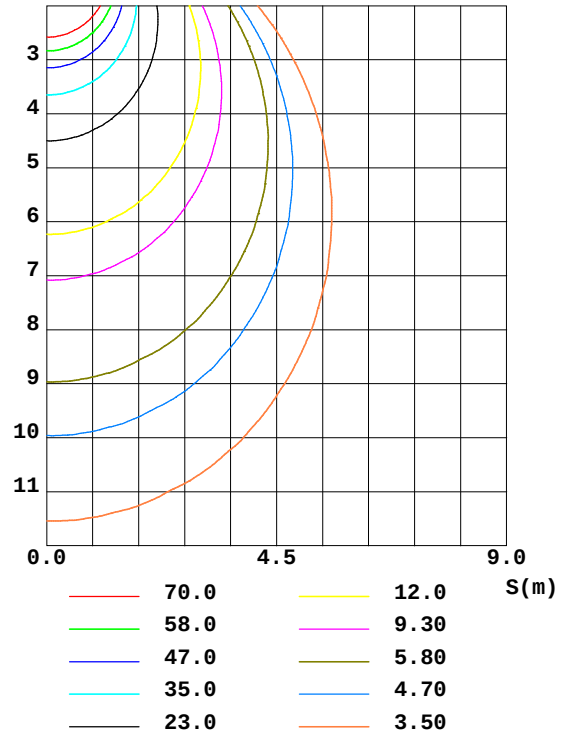
DATA OF LAMP		PHOTOMETRIC DATA Eff: 105.93 lm/W			
MODEL		Imax(cd)	527.9	S/MH(C0/180)	1.25
NOMINAL POWER(W)	26	LOR(%)	100.0	S/MH(C90/270)	1.72
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2744.1	η UP,DN(C0-180)	12.9,38.8
NOMINAL FLUX(lm)	2744.13	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	9.1,39.2
LAMPS INSIDE	1	η up(%)	22.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120.3	η down(%)	78.0	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):159.5 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	458.4	475.6	477.7	454.3	453.8	475.7	489.4	491.3	0- 10	44.73	44.73	1.63,1.63
20	434.4	485.5	507.2	454.0	424.9	476.3	514.0	509.5	10- 20	134.7	179.4	6.54,6.54
30	392.5	482.2	526.1	445.3	382.3	464.2	524.9	512.2	20- 30	218.4	397.8	14.5,14.5
40	337.9	465.1	526.2	423.1	315.0	439.0	518.6	497.6	30- 40	285.3	683.1	24.9,24.9
50	273.9	432.2	509.2	387.2	247.6	399.1	496.7	466.2	40- 50	326.5	1010	36.8,36.8
60	200.8	384.5	476.9	327.6	173.7	346.4	456.8	420.0	50- 60	337.2	1347	49.1,49.1
70	111.1	314.7	430.9	271.6	95.73	284.6	405.7	361.1	60- 70	314.6	1661	60.5,60.5
80	34.17	250.9	373.6	219.2	21.63	225.0	337.4	293.5	70- 80	266.6	1928	70.3,70.3
90	0	194.9	322.4	202.7	0	193.9	293.0	228.9	80- 90	212.4	2140	78,78
100	0	181.7	295.6	161.1	0	155.2	258.1	197.3	90-100	184.4	2325	84.7,84.7
110	0	138.4	274.9	154.0	0	124.4	219.1	112.0	100-110	149.5	2474	90.2,90.2
120	0	125.7	241.8	136.9	0	86.85	165.8	74.28	110-120	115.9	2590	94.4,94.4
130	0	103.1	201.6	109.6	0	20.30	107.5	39.33	120-130	79.70	2670	97.3,97.3
140	0	75.66	153.8	68.55	0	0	54.83	9.199	130-140	45.41	2715	99,99
150	0	45.74	92.11	29.51	0	0	0	3.469	140-150	20.38	2736	99.7,99.7
160	0	22.09	42.43	0	0	0	0	2.831	150-160	7.006	2743	100,100
170	0	0	8.465	0	0	0	0	0	160-170	1.332	2744	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0248	2744	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

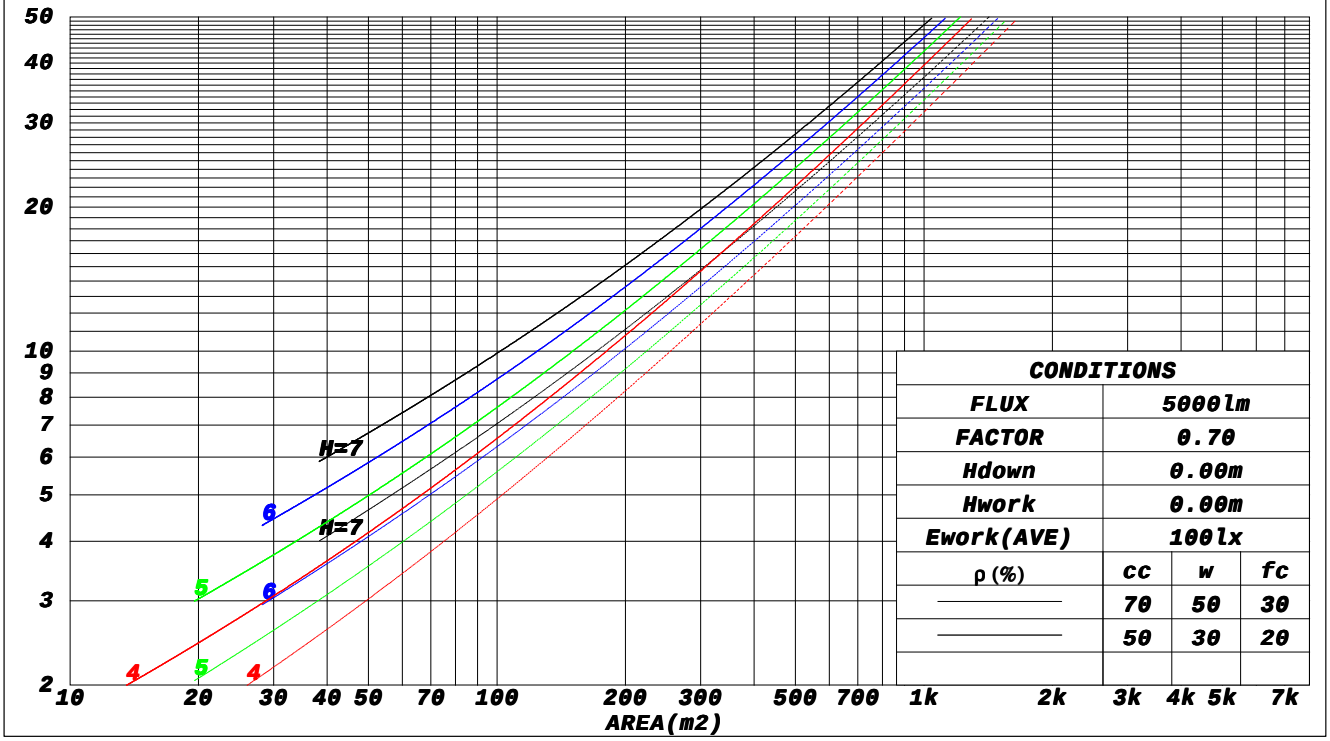
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.2188A P:25.90W PF:0.9838 Lamp Flux:2744.13x1 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	.77	.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:120.3V I:0.2188A P:25.90W PF:0.9838 Lamp Flux:2744.13x1 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	.221	.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	.095	.028	.170	.089	.027	
7.0	.206	.102	.029	.198	.099	.028	.183	.093	.027	.169	.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	.135	.069	.020	
10.0	.166	.080	.022	.160	.077	.022	.148	.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	.297	.304	.278	.255	.208	.192	.177	.120	.111	.103	.038	.036	.033	
2.0	.349	.302	.263	.299	.260	.227	.205	.180	.158	.118	.105	.093	.038	.034	.030	
3.0	.341	.286	.241	.293	.246	.209	.201	.171	.147	.116	.100	.086	.037	.032	.028	
4.0	.334	.273	.227	.286	.236	.197	.197	.165	.139	.114	.096	.082	.037	.031	.027	
5.0	.326	.264	.217	.280	.228	.189	.193	.159	.134	.112	.094	.079	.036	.031	.026	
6.0	.319	.256	.211	.274	.221	.183	.189	.155	.130	.110	.091	.077	.035	.030	.025	
7.0	.312	.249	.206	.268	.216	.179	.185	.151	.127	.108	.089	.076	.035	.029	.025	
8.0	.305	.244	.202	.262	.211	.176	.182	.148	.125	.106	.088	.074	.034	.029	.025	
9.0	.299	.239	.199	.257	.207	.173	.178	.146	.123	.104	.086	.073	.034	.028	.024	
10.0	.293	.235	.196	.252	.204	.171	.175	.143	.122	.102	.085	.073	.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:120.3V I:0.2188A P:25.90W PF:0.9838 Lamp Flux:2744.13x1 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	16.8	18.1	17.3	18.7	19.3	19.7	21.1	20.3	21.6	22.3
3H	18.2	19.4	18.8	20.0	20.7	22.5	23.8	23.1	24.3	25.0
4H	18.7	19.8	19.3	20.5	21.2	24.1	25.2	24.7	25.9	26.6
6H	19.0	20.1	19.6	20.7	21.4	25.8	26.9	26.4	27.5	28.3
8H	19.0	20.1	19.7	20.7	21.5	26.7	27.8	27.4	28.4	29.2
12H	19.0	20.0	19.6	20.7	21.4	27.8	28.9	28.5	29.5	30.3
4H 2H	18.3	19.4	18.9	20.0	20.8	20.3	21.4	20.9	22.0	22.8
3H	20.0	21.0	20.6	21.6	22.4	23.3	24.3	23.9	24.9	25.7
4H	20.7	21.7	21.4	22.3	23.1	25.0	25.9	25.7	26.6	27.4
6H	21.2	22.1	21.9	22.8	23.6	26.9	27.7	27.6	28.4	29.3
8H	21.4	22.2	22.1	22.9	23.7	28.0	28.8	28.7	29.5	30.3
12H	21.5	22.2	22.2	22.9	23.8	29.2	29.9	29.9	30.7	31.5
8H 4H	22.0	22.8	22.7	23.5	24.3	25.3	26.1	26.0	26.8	27.6
6H	23.0	23.7	23.7	24.4	25.3	27.5	28.2	28.2	28.9	29.8
8H	23.4	24.0	24.2	24.8	25.7	28.8	29.4	29.5	30.1	31.0
12H	23.7	24.2	24.5	25.0	25.9	30.2	30.8	31.0	31.5	32.5
12H 4H	22.4	23.1	23.1	23.8	24.7	25.3	26.0	26.0	26.8	27.6
6H	23.7	24.3	24.4	25.0	25.9	27.6	28.2	28.3	29.0	29.8
8H	24.3	24.8	25.1	25.6	26.5	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 2744 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:120.3V I:0.2188A P:25.90W PF:0.9838 Lamp Flux:2744.13x1 lm		
NAME: 24寸方形L+U-BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

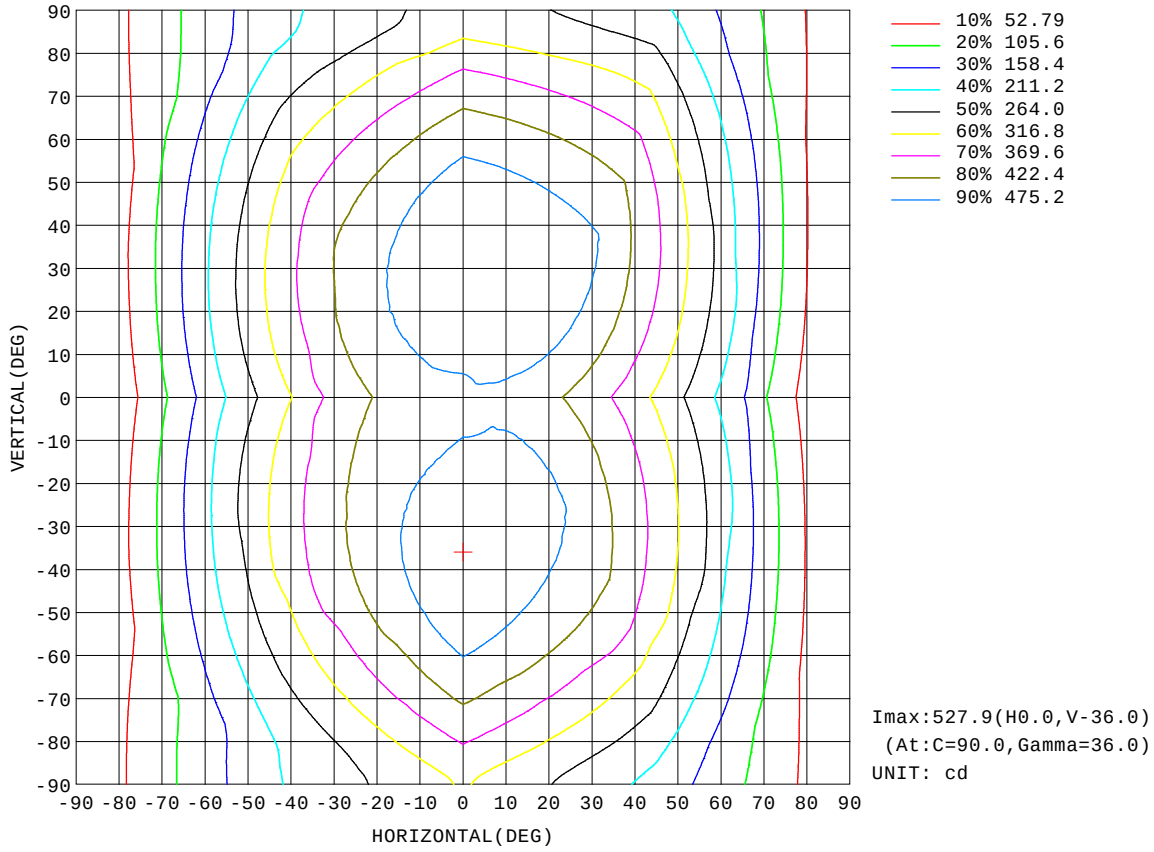
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	45	33	25	44	32	25	42	31	25	18
0.80	54	41	33	53	40	32	50	39	32	23
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:120.3V I:0.2188A P:25.90W PF:0.9838 Lamp Flux:2744.13x1 lm		
NAME: 24寸方形L+U-BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

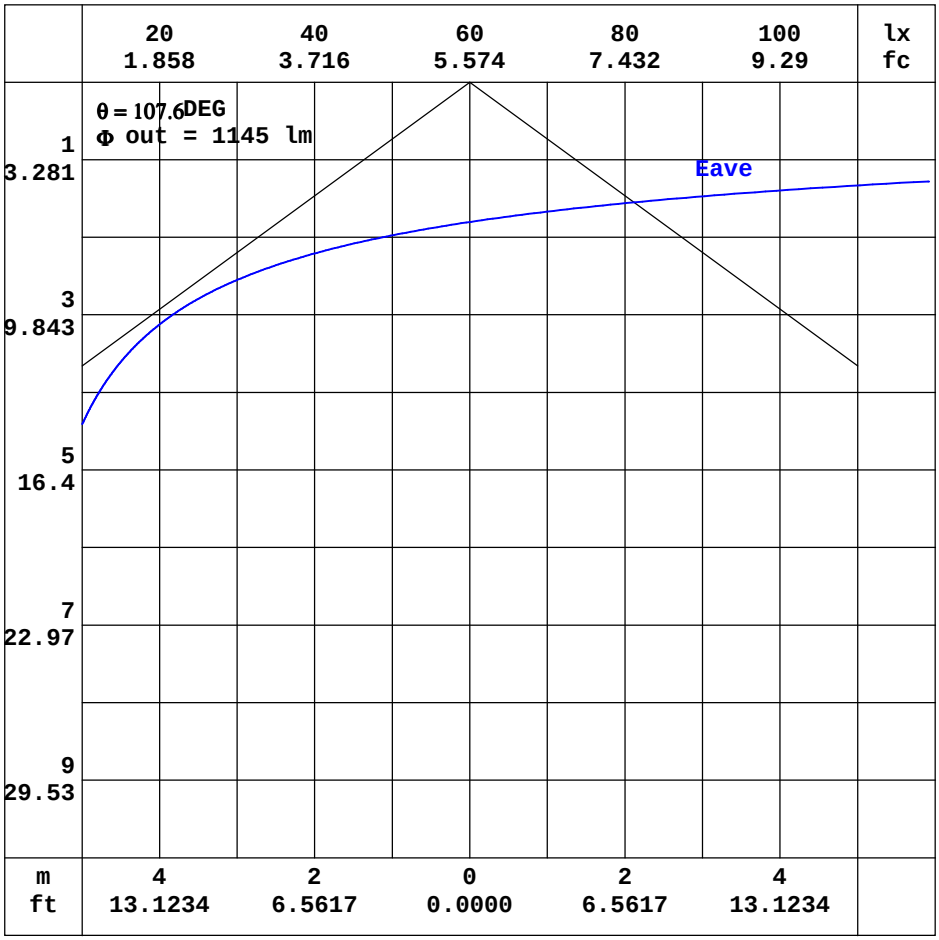


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-14

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:120.3V I:0.2188A P:25.90W PF:0.9838 Lamp Flux:2744.13x1 lm		
NAME: 24寸方形L+U-BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



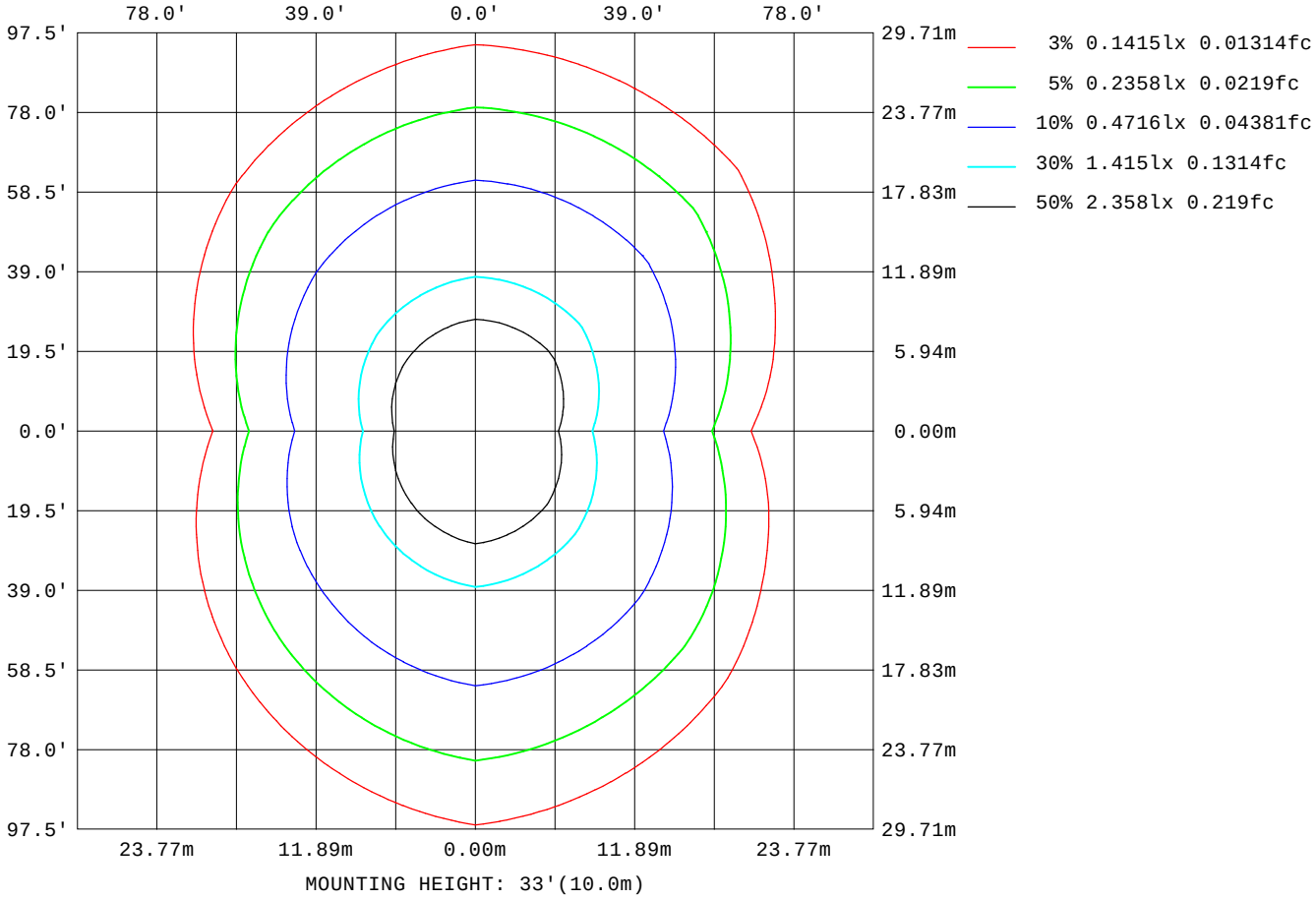
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

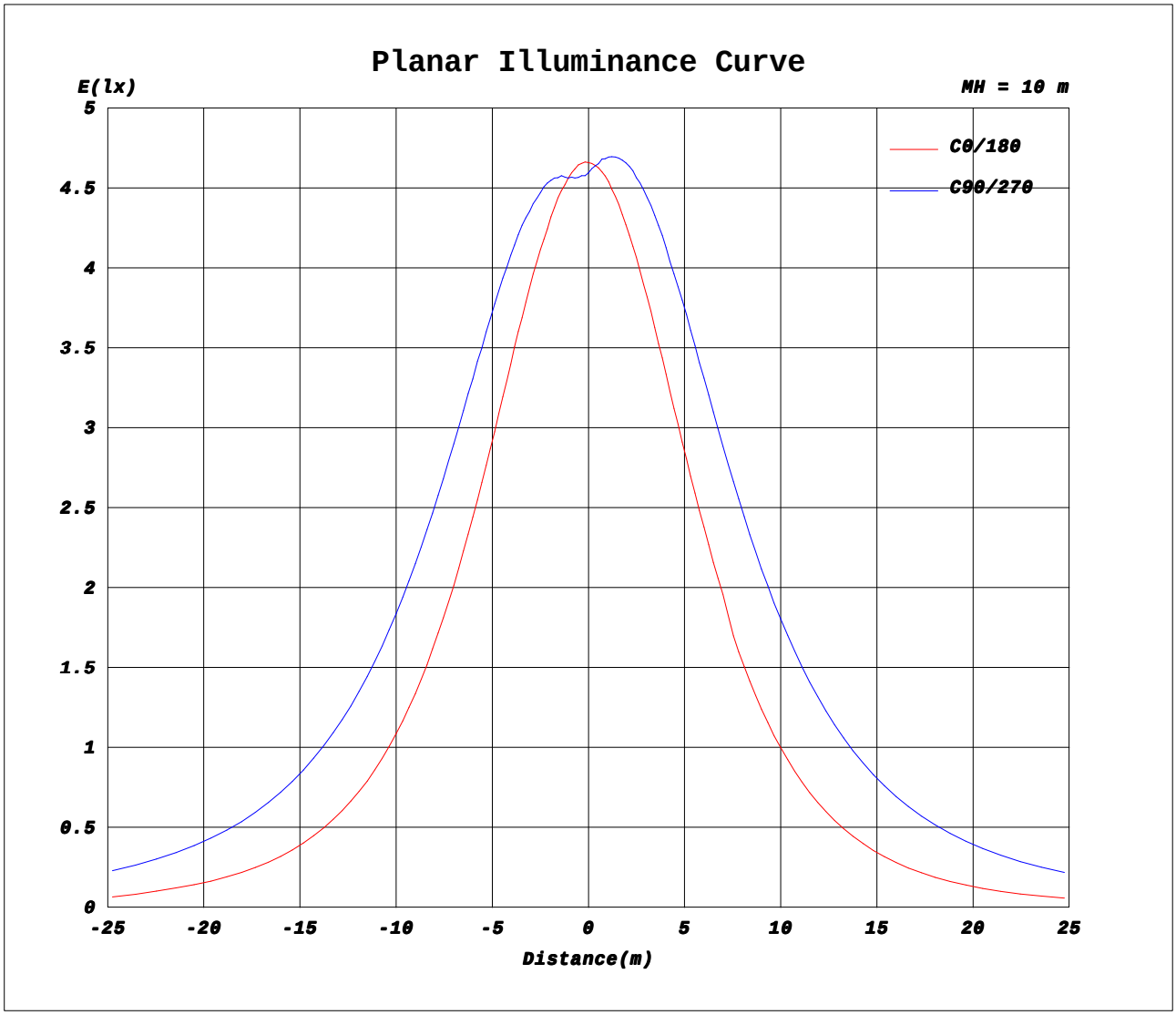
Test:U:120.3V I:0.2188A P:25.90W PF:0.9838 Lamp Flux:2744.13x1 lm		
NAME: 24寸方形L+U-BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



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:120.3V I:0.2188A P:25.90W PF:0.9838 Lamp Flux:2744.13x1 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	466	466	459	461	466	466	459	461
5	465	468	462	453	463	471	474	477
10	458	476	478	454	454	476	489	491
15	449	482	492	455	442	477	503	502
20	434	486	507	454	425	476	514	510
25	415	485	518	452	406	471	522	513
30	392	482	526	445	382	464	525	512
35	367	476	528	436	356	453	525	507
40	338	465	526	423	315	439	519	498
45	308	450	520	406	283	421	510	484
50	274	432	509	387	248	399	497	466
55	238	410	495	364	212	374	479	445
60	201	384	477	328	174	346	457	420
65	162	357	455	300	135	316	433	392
70	111	315	431	272	95.7	285	406	361
75	71.7	283	403	244	57.4	255	378	329
80	34.2	251	374	219	21.6	225	337	294
85	0.86	220	344	205	0.00	200	308	258
90	0.00	195	322	203	0.00	194	293	229
95	0.00	190	318	187	0.00	182	269	211
100	0.00	182	296	161	0.00	155	258	197
105	0.00	153	287	157	0.00	132	242	159
110	0.00	138	275	154	0.00	124	219	112
115	0.00	133	260	147	0.00	109	194	92.7
120	0.00	126	242	137	0.00	86.8	166	74.3
125	0.00	116	223	124	0.00	54.9	134	56.6
130	0.00	103	202	110	0.00	20.3	107	39.3
135	0.00	89.8	178	90.2	0.00	0.00	81.1	23.0
140	0.00	75.7	154	68.5	0.00	0.00	54.8	9.20
145	0.00	60.8	118	48.1	0.00	0.00	24.8	2.16
150	0.00	45.7	92.1	29.5	0.00	0.00	0.00	3.47
155	0.00	33.4	66.6	16.3	0.00	0.00	0.00	4.42
160	0.00	22.1	42.4	0.00	0.00	0.00	0.00	2.83
165	0.00	2.84	24.6	0.00	0.00	0.00	0.00	2.20
170	0.00	0.00	8.46	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