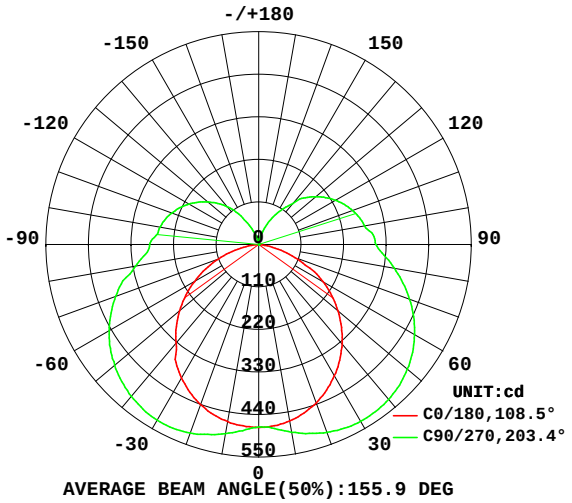
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.3V I:0.2551A P:30.22W PF:0.9847 Lamp Flux:2776.94x1 lm		
NAME:I-VBDF-30W-TD/DV-5CCT-L36"	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL	SUR.:	PROTECTION ANGLE:

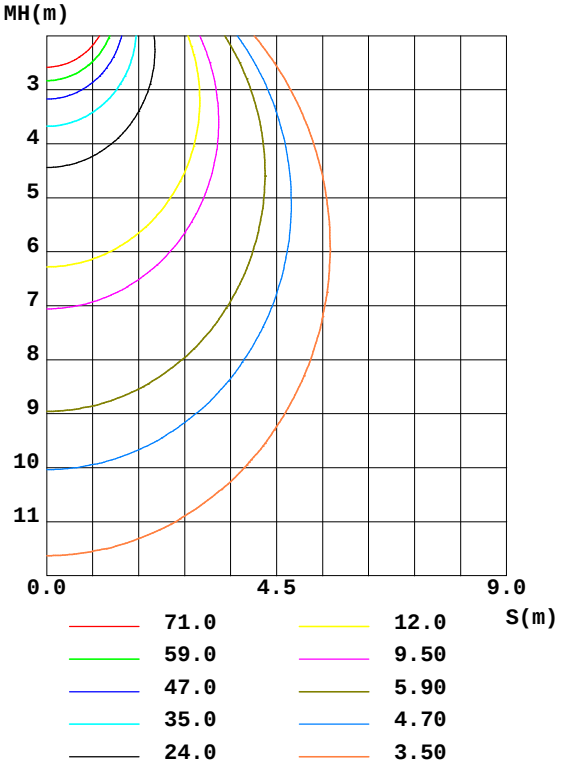
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 91.88 lm/W	
MODEL		Imax(cd)	528.1	S/MH(C0/180)	1.24
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.68
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2776.9	η UP,DN(C0-180)	12.2,38.5
NOMINAL FLUX(lm)	2776.94	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	11.3,38.1
LAMPS INSIDE	1	η up(%)	23.5	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120.3	η down(%)	76.5	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):155.9 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:7.600m [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	463.3	484.8	493.3	474.4	465.1	479.9	497.1	491.0	0- 10	45.62	45.62	1.64,1.64
20	435.9	490.1	517.2	482.1	440.5	485.0	518.7	496.7	10- 20	137.0	182.6	6.58,6.58
30	392.0	481.4	527.9	476.5	399.4	475.4	524.9	483.7	20- 30	220.9	403.5	14.5,14.5
40	335.9	458.3	522.9	457.3	333.2	451.3	512.7	460.2	30- 40	286.8	690.3	24.9,24.9
50	268.3	421.4	501.8	423.3	267.0	413.9	486.3	422.3	40- 50	326.5	1017	36.6,36.6
60	192.2	370.4	465.6	377.1	191.9	362.8	446.7	372.5	50- 60	336.0	1353	48.7,48.7
70	100.1	298.7	415.1	307.6	111.7	298.5	393.7	311.6	60- 70	310.7	1663	59.9,59.9
80	22.88	232.9	356.4	244.9	33.70	231.9	324.1	246.1	70- 80	259.4	1923	69.2,69.2
90	0	185.7	303.5	193.8	0	186.3	282.2	203.8	80- 90	201.8	2125	76.5,76.5
100	0	151.5	278.3	156.6	0	142.3	259.0	163.3	90-100	174.6	2299	82.8,82.8
110	0	143.0	258.4	153.0	0	135.9	239.0	158.7	100-110	148.5	2448	88.1,88.1
120	0	127.4	229.6	137.8	0	114.0	208.8	129.1	110-120	126.6	2574	92.7,92.7
130	0	103.1	192.6	96.31	0	75.50	171.2	103.4	120-130	95.40	2670	96.1,96.1
140	0	74.89	138.2	56.47	0	40.53	128.4	73.29	130-140	61.48	2731	98.4,98.4
150	0	45.47	91.36	24.55	0	12.32	74.46	41.75	140-150	31.84	2763	99.5,99.5
160	0	20.81	45.62	0	0	2.229	30.41	17.31	150-160	11.70	2775	99.9,99.9
170	0	0	8.676	0	0	0	0	0	160-170	2.111	2777	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0249	2777	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

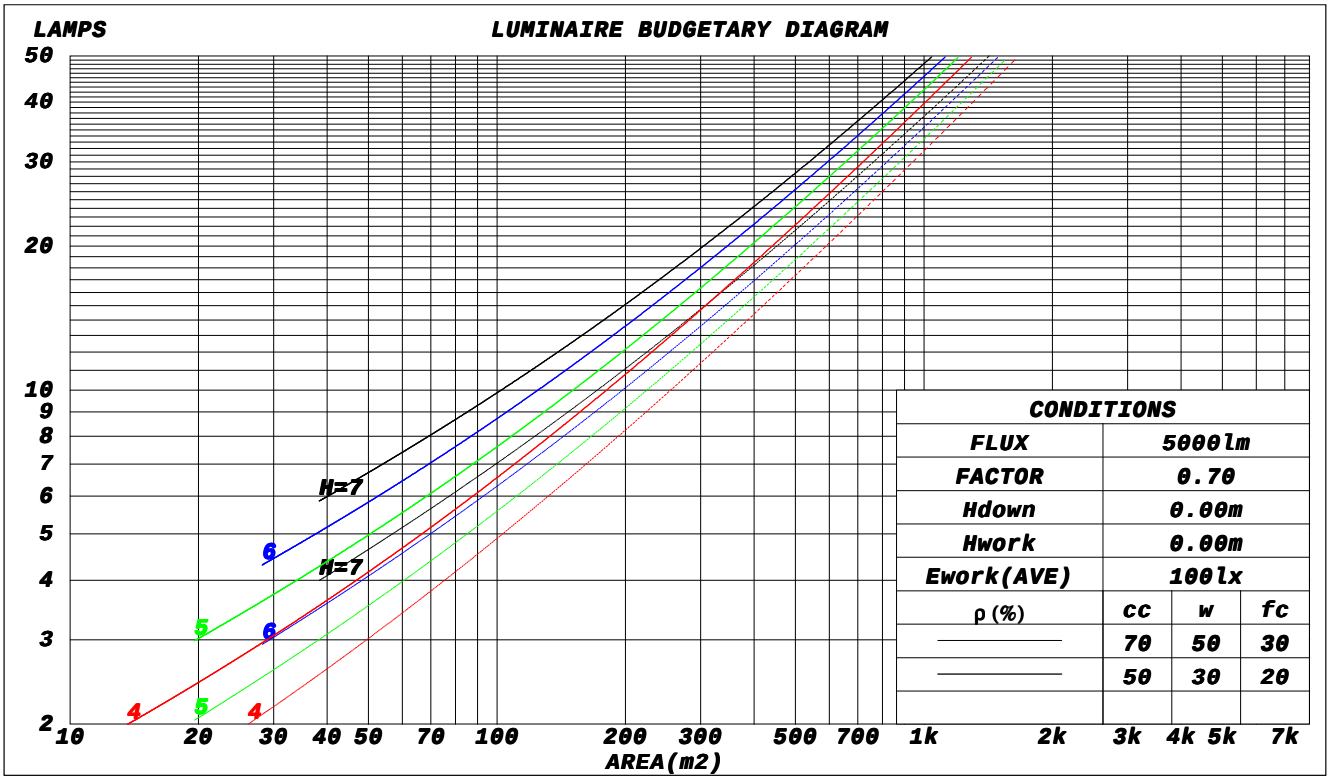
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-14

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

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.2551A P:30.22W PF:0.9847 Lamp Flux:2776.94x1 lm		
NAME: 36寸方形简易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	1.13	1.13	1.13	1.08	1.08	1.08	.98	.98	.98	.89	.89	.89	.80	.80	.80	.77
1.0	.94	.89	.84	.90	.85	.81	.81	.77	.74	.73	.70	.67	.66	.63	.61	.57
2.0	.80	.73	.66	.76	.69	.63	.69	.63	.58	.62	.58	.53	.56	.52	.49	.45
3.0	.70	.61	.53	.66	.58	.51	.60	.53	.47	.54	.48	.44	.48	.44	.40	.37
4.0	.61	.51	.44	.58	.49	.43	.52	.45	.39	.47	.41	.36	.42	.38	.33	.30
5.0	.54	.44	.37	.51	.43	.36	.47	.39	.33	.42	.36	.31	.38	.33	.29	.26
6.0	.48	.39	.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	.38	.29	.24	.34	.27	.22	.31	.25	.21	.28	.23	.19	.17
9.0	.36	.27	.22	.34	.26	.21	.31	.25	.20	.29	.23	.18	.26	.21	.17	.15
10.0	.33	.25	.19	.31	.24	.19	.29	.22	.18	.26	.21	.17	.24	.19	.15	.13



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:7.600m [K=1.0000]
Remarks: LM79

WEC AND CCEC

Test:U:120.3V I:0.2551A P:30.22W PF:0.9847 Lamp Flux:2776.94x1 lm		
NAME: 36寸方形简易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	.385	.219	.069	.371	.211	.067	.344	.197	.063	.319	.184	.059	.296	.172	.055	
2.0	.333	.183	.056	.320	.177	.054	.296	.165	.051	.274	.153	.048	.253	.143	.045	
3.0	.296	.158	.047	.285	.152	.046	.262	.142	.043	.242	.133	.041	.223	.123	.038	
4.0	.267	.139	.041	.256	.134	.040	.236	.125	.037	.217	.117	.035	.200	.109	.033	
5.0	.242	.123	.036	.233	.119	.035	.214	.112	.033	.197	.104	.031	.181	.097	.029	
6.0	.222	.111	.032	.213	.108	.031	.196	.101	.029	.181	.094	.028	.166	.087	.026	
7.0	.205	.101	.029	.197	.098	.028	.181	.092	.026	.167	.085	.025	.153	.080	.023	
8.0	.190	.093	.026	.182	.090	.025	.168	.084	.024	.155	.078	.023	.142	.073	.021	
9.0	.177	.086	.024	.170	.083	.023	.157	.077	.022	.144	.072	.021	.133	.067	.019	
10.0	.165	.079	.022	.159	.077	.021	.147	.072	.020	.135	.067	.019	.124	.063	.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	.369	.369	.369	.316	.316	.316	.216	.216	.216	.124	.124	.124	.040	.040	.040	
1.0	.366	.336	.309	.313	.288	.266	.214	.198	.184	.123	.115	.107	.039	.037	.035	
2.0	.359	.313	.275	.308	.270	.237	.211	.187	.166	.122	.109	.097	.039	.035	.032	
3.0	.352	.297	.253	.302	.256	.220	.207	.178	.154	.120	.104	.091	.038	.034	.030	
4.0	.345	.285	.239	.296	.246	.208	.203	.172	.146	.118	.100	.087	.038	.033	.028	
5.0	.337	.275	.229	.289	.238	.200	.199	.166	.141	.116	.098	.084	.037	.032	.028	
6.0	.330	.267	.223	.283	.232	.194	.196	.162	.137	.113	.095	.082	.037	.031	.027	
7.0	.323	.261	.218	.278	.226	.190	.192	.159	.134	.111	.093	.080	.036	.031	.026	
8.0	.316	.255	.214	.272	.222	.186	.188	.156	.132	.110	.092	.079	.035	.030	.026	
9.0	.310	.251	.211	.267	.218	.184	.185	.153	.130	.108	.090	.078	.035	.030	.026	
10.0	.304	.247	.208	.262	.214	.182	.182	.151	.129	.106	.089	.077	.034	.029	.026	

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:7.600m [K=1.0000]
Remarks: LM79

Uncorrected UGR Table

Test:U:120.3V I:0.2551A P:30.22W PF:0.9847 Lamp Flux:2776.94x1 lm		
NAME: 36寸方形简易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	16.5	17.8	17.0	18.4	19.0	19.4	20.8	20.0	21.3	22.0
	3H	17.7	18.9	18.3	19.6	20.3	22.2	23.4	22.8	24.0	24.7
	4H	18.2	19.3	18.8	19.9	20.7	23.7	24.9	24.4	25.5	26.3
	6H	18.4	19.5	19.0	20.1	20.9	25.4	26.5	26.1	27.2	27.9
	8H	18.4	19.4	19.0	20.1	20.9	26.4	27.4	27.0	28.1	28.8
	12H	18.3	19.3	19.0	20.0	20.8	27.4	28.4	28.1	29.1	29.9
4H	2H	17.9	19.0	18.5	19.7	20.4	20.0	21.1	20.6	21.7	22.5
	3H	19.5	20.5	20.2	21.2	22.0	22.9	23.9	23.6	24.6	25.4
	4H	20.2	21.1	20.9	21.8	22.6	24.6	25.5	25.3	26.2	27.0
	6H	20.6	21.5	21.4	22.2	23.0	26.5	27.3	27.2	28.0	28.9
	8H	20.7	21.5	21.5	22.2	23.1	27.6	28.3	28.3	29.1	29.9
	12H	20.8	21.5	21.5	22.2	23.1	28.8	29.5	29.5	30.2	31.1
8H	4H	21.5	22.2	22.2	23.0	23.8	24.9	25.7	25.6	26.4	27.3
	6H	22.4	23.0	23.1	23.8	24.7	27.1	27.7	27.8	28.5	29.4
	8H	22.7	23.3	23.5	24.1	25.0	28.3	28.9	29.1	29.7	30.6
	12H	23.0	23.5	23.8	24.3	25.2	29.8	30.3	30.6	31.1	32.0
12H	4H	21.9	22.6	22.6	23.3	24.2	24.9	25.6	25.6	26.4	27.2
	6H	23.1	23.7	23.8	24.4	25.3	27.2	27.7	27.9	28.5	29.4
	8H	23.6	24.1	24.4	24.9	25.9	28.5	29.0	29.3	29.8	30.8
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 2777 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:7.600m [K=1.0000]
Remarks: LM79

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.2551A P:30.22W PF:0.9847 Lamp Flux:2776.94x1 lm		
NAME: 36寸方形简易BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

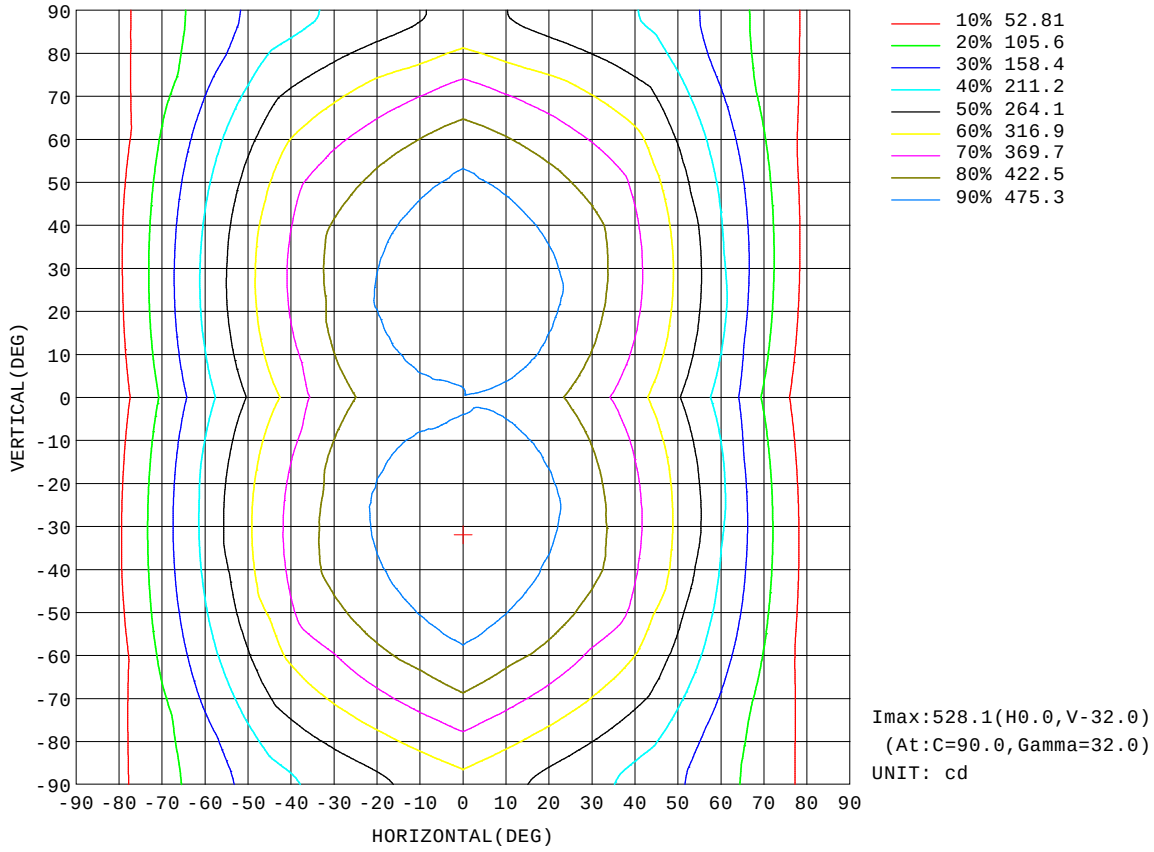
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	45	33	25	44	32	25	42	31	25	18
0.80	54	41	33	53	40	33	49	39	32	23
1.00	62	49	40	60	48	40	56	48	38	29
1.25	69	56	48	67	55	47	62	52	45	34
1.50	74	62	53	71	60	52	66	56	49	38
2.00	82	70	62	78	68	60	72	64	57	44
2.50	86	76	68	83	73	66	76	68	62	48
3.00	90	81	73	86	78	71	79	72	66	51
4.00	95	87	80	91	83	77	83	77	72	56
5.00	98	91	85	94	87	82	85	80	76	59
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:7.600m [K=1.0000]
Remarks: LM79

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.2551A P:30.22W PF:0.9847 Lamp Flux:2776.94x1 lm		
NAME: 36寸方形简易BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

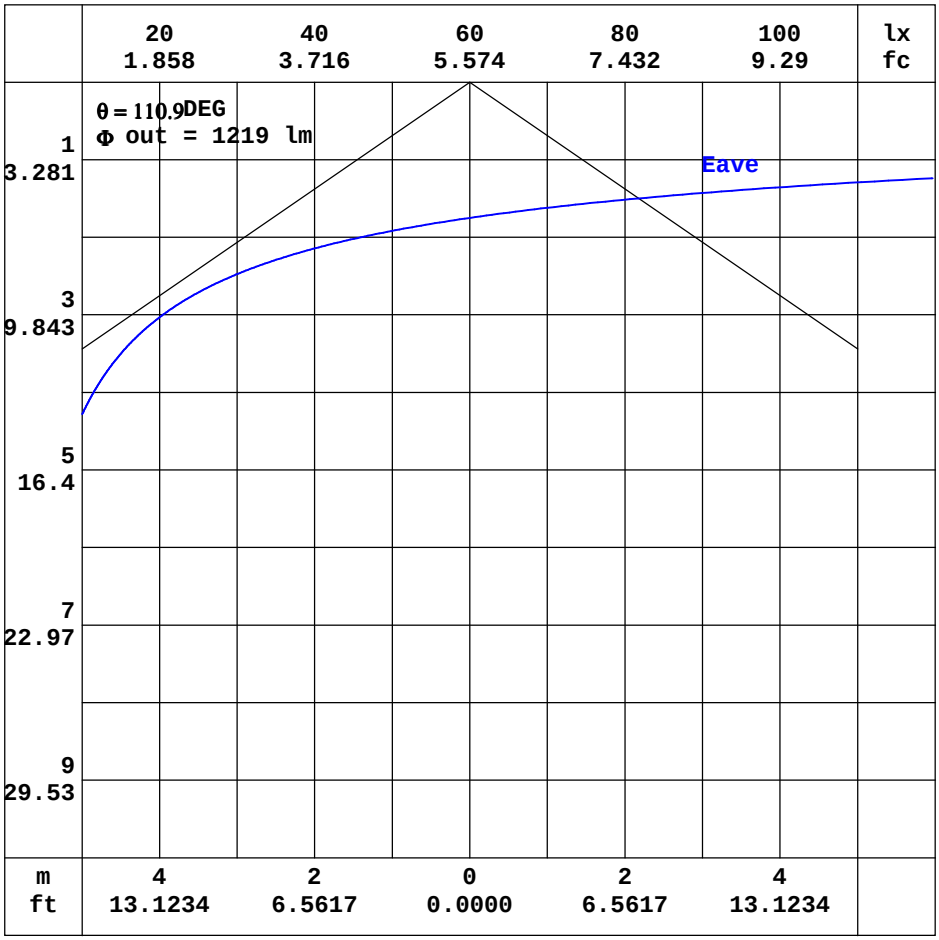


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-14

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

AAI CURVES

Test:U:120.3V I:0.2551A P:30.22W PF:0.9847 Lamp Flux:2776.94x1 lm		
NAME: 36寸方形简易BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



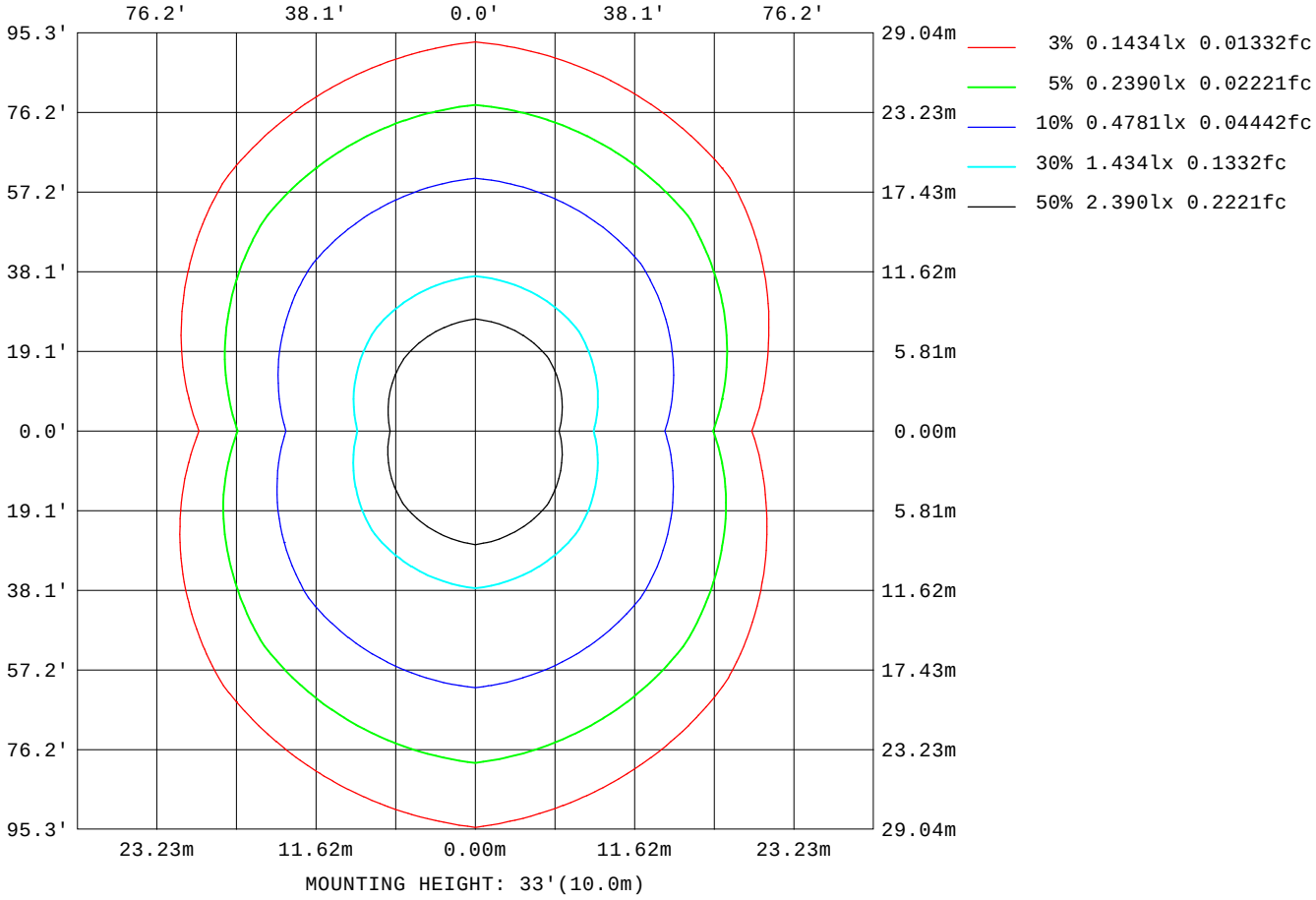
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:7.600m [K=1.0000]
Remarks: LM79

ISOLUX DIAGRAM

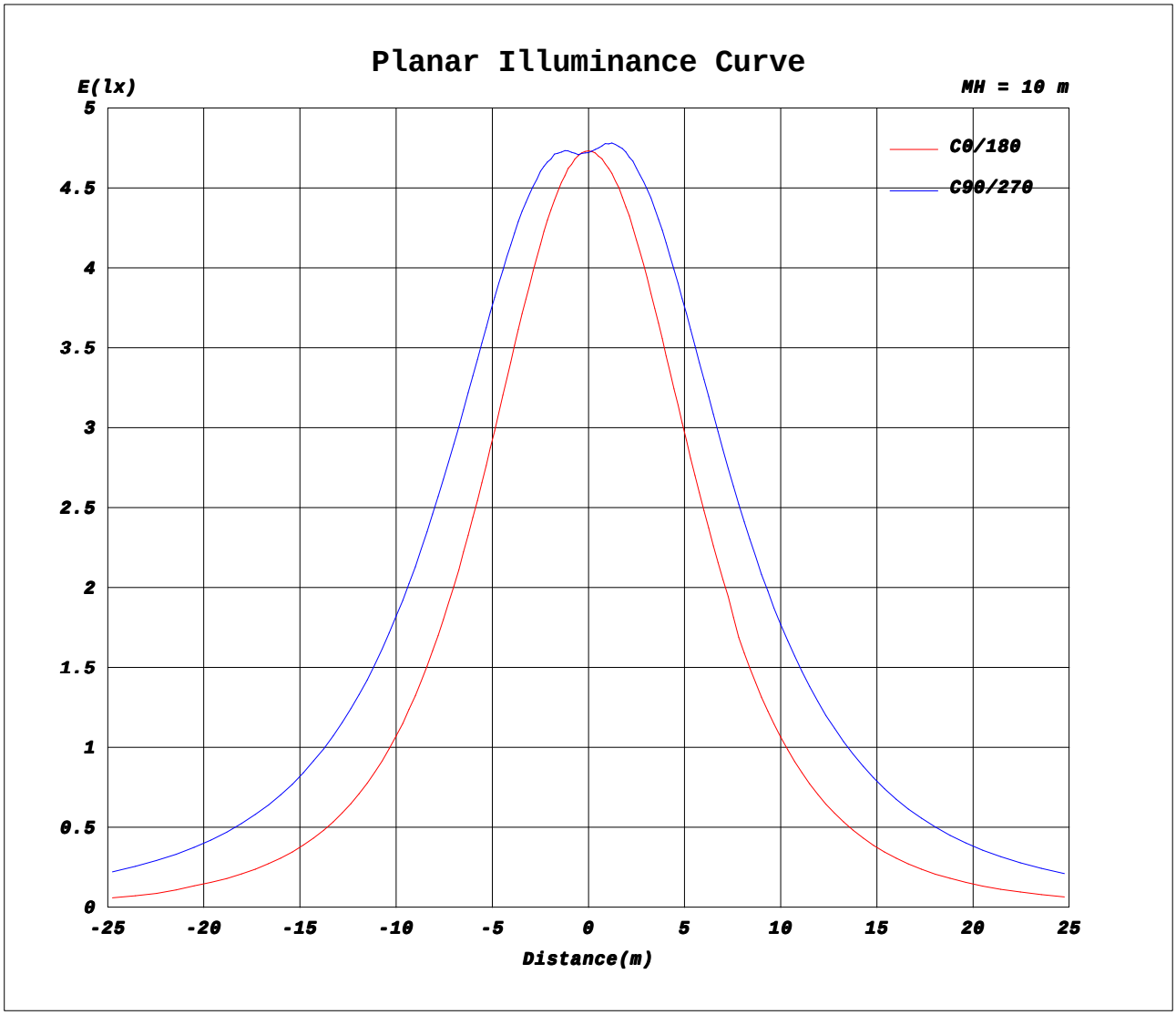
Test:U:120.3V I:0.2551A P:30.22W PF:0.9847 Lamp Flux:2776.94x1 lm		
NAME: 36寸方形简易BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



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:7.600m [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:2026-09-14

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

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.2551A P:30.22W PF:0.9847 Lamp Flux:2776.94x1 lm		
NAME: 36寸方形简易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	473	473	472	474	473	473	472	474
5	470	478	478	471	471	475	483	484
10	463	485	493	474	465	480	497	491
15	451	488	505	479	455	484	509	496
20	436	490	517	482	440	485	519	497
25	416	487	524	480	422	481	524	491
30	392	481	528	476	399	475	525	484
35	366	471	528	469	373	464	521	473
40	336	458	523	457	333	451	513	460
45	304	441	515	442	302	434	501	443
50	268	421	502	423	267	414	486	422
55	231	397	486	402	230	390	468	399
60	192	370	466	377	192	363	447	373
65	147	331	442	338	152	332	421	342
70	100	299	415	308	112	299	394	312
75	60.3	266	386	276	71.6	265	364	279
80	22.9	233	356	245	33.7	232	324	246
85	0.00	203	326	214	0.00	201	294	216
90	0.00	186	303	194	0.00	186	282	204
95	0.00	182	297	190	0.00	176	267	191
100	0.00	152	278	157	0.00	142	259	163
105	0.00	146	270	156	0.00	139	251	163
110	0.00	143	258	153	0.00	136	239	159
115	0.00	136	245	147	0.00	127	225	140
120	0.00	127	230	138	0.00	114	209	129
125	0.00	116	212	119	0.00	94.9	191	117
130	0.00	103	193	96.3	0.00	75.5	171	103
135	0.00	89.4	172	75.2	0.00	57.9	151	88.4
140	0.00	74.9	138	56.5	0.00	40.5	128	73.3
145	0.00	60.2	115	39.8	0.00	25.2	104	57.4
150	0.00	45.5	91.4	24.5	0.00	12.3	74.5	41.7
155	0.00	33.0	67.6	9.43	0.00	5.19	48.8	29.4
160	0.00	20.8	45.6	0.00	0.00	2.23	30.4	17.3
165	0.00	0.42	26.7	0.00	0.00	0.00	16.3	6.50
170	0.00	0.00	8.68	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:7.600m [K=1.0000]
Remarks: LM79