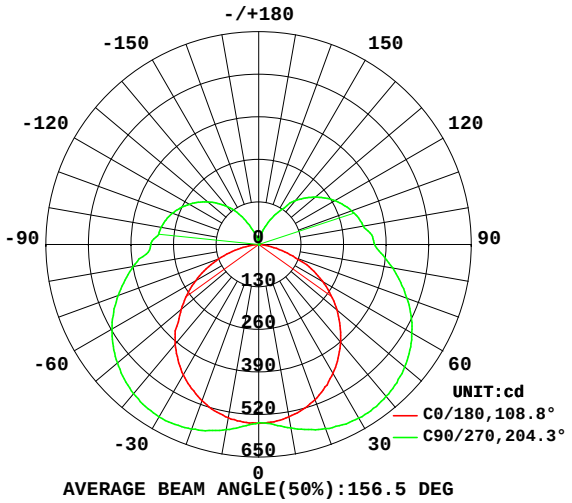
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.3V I:0.2422A P:28.67W PF:0.9836 Lamp Flux:3249.58x1 lm		
NAME:I-VBDF-30W-TD/DV-5CCT-L36"	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL	SUR.:	PROTECTION ANGLE:

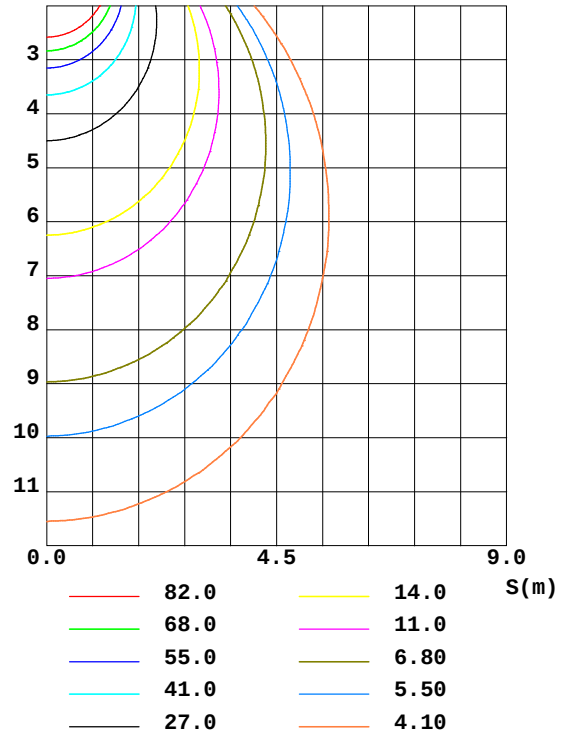
DATA OF LAMP		PHOTOMETRIC DATA Eff: 113.36 lm/W			
MODEL		Imax(cd)	613.7	S/MH(C0/180)	1.24
NOMINAL POWER(W)	28	LOR(%)	100.0	S/MH(C90/270)	1.68
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3249.6	η UP,DN(C0-180)	12.3,38.5
NOMINAL FLUX(lm)	3249.58	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	11.5,37.6
LAMPS INSIDE	1	η up(%)	23.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120.4	η down(%)	76.1	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):156.5 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:7.600m [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	534.8	561.0	569.7	550.2	537.8	552.7	574.2	568.2	0- 10	52.72	52.72	1.62,1.62
20	504.8	569.3	598.3	557.7	508.6	556.1	600.3	575.2	10- 20	158.4	211.1	6.5,6.5
30	454.0	562.2	612.6	550.7	460.6	545.9	608.6	561.5	20- 30	255.7	466.8	14.4,14.4
40	390.5	538.4	605.7	530.2	397.2	517.2	594.6	532.4	30- 40	332.7	799.5	24.6,24.6
50	312.6	495.7	582.3	491.8	309.2	472.4	563.4	491.4	40- 50	379.1	1179	36.3,36.3
60	224.7	439.3	540.5	437.2	223.0	412.1	517.6	431.8	50- 60	390.0	1569	48.3,48.3
70	120.2	369.3	481.9	370.7	130.4	337.0	456.8	361.1	60- 70	364.1	1933	59.5,59.5
80	30.97	281.7	415.9	287.0	40.50	263.4	390.1	286.3	70- 80	304.0	2237	68.8,68.8
90	0	221.0	354.1	228.2	0	218.7	329.4	236.8	80- 90	237.2	2474	76.1,76.1
100	0	187.1	325.1	184.9	0	180.8	302.7	190.4	90-100	205.0	2679	82.4,82.4
110	0	169.8	302.6	181.2	0	173.1	280.7	184.6	100-110	176.3	2855	87.9,87.9
120	0	152.0	268.8	163.3	0	134.0	245.3	164.2	110-120	151.3	3006	92.5,92.5
130	0	124.3	225.1	114.6	0	89.23	202.5	122.6	120-130	113.1	3120	96,96
140	0	91.39	175.3	68.47	0	49.44	152.4	87.72	130-140	73.17	3193	98.2,98.2
150	0	56.60	109.4	31.38	0	17.30	91.02	51.66	140-150	38.91	3232	99.4,99.4
160	0	27.83	56.30	2.073	0	5.742	38.97	22.95	150-160	14.91	3246	99.9,99.9
170	0	0	13.42	0	0	0	0	0.0024	160-170	3.039	3250	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0497	3250	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

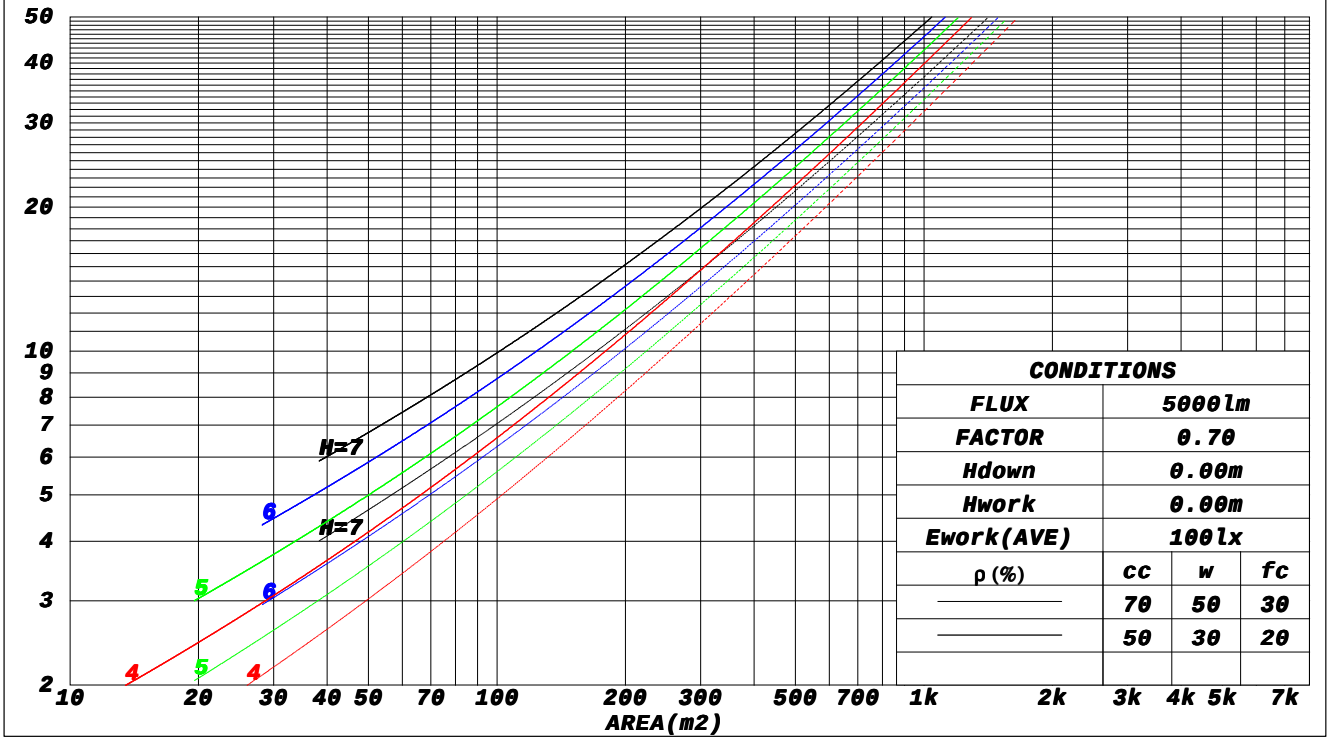
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.2422A P:28.67W PF:0.9836 Lamp Flux:3249.58x1 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	.76
1.0	.94	.89	.84	.90	.85	.80	.81	.77	.73	.73	.70	.67	.65	.63	.61	.57
2.0	.80	.72	.66	.76	.69	.63	.69	.63	.58	.62	.57	.53	.55	.52	.49	.45
3.0	.69	.60	.53	.66	.58	.51	.60	.53	.47	.54	.48	.43	.48	.44	.40	.36
4.0	.61	.51	.44	.58	.49	.42	.52	.45	.39	.47	.41	.36	.42	.37	.33	.30
5.0	.54	.44	.37	.51	.42	.36	.46	.39	.33	.42	.36	.31	.38	.32	.28	.25
6.0	.48	.39	.32	.46	.37	.31	.42	.34	.29	.38	.31	.27	.34	.29	.24	.22
7.0	.43	.34	.28	.41	.33	.27	.37	.30	.25	.34	.28	.23	.31	.25	.21	.19
8.0	.39	.30	.24	.37	.29	.24	.34	.27	.22	.31	.25	.21	.28	.23	.19	.17
9.0	.36	.27	.22	.34	.26	.21	.31	.24	.20	.28	.23	.18	.26	.21	.17	.15
10.0	.33	.25	.19	.31	.24	.19	.29	.22	.18	.26	.21	.16	.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:7.600m [K=1.0000]
Remarks: LM79

WEC AND CCEC

Test:U:120.3V I:0.2422A P:28.67W PF:0.9836 Lamp Flux:3249.58x1 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	.386	.219	.069	.371	.212	.067	.344	.197	.063	.319	.184	.059	.296	.172	.055	
2.0	.334	.183	.056	.321	.177	.054	.296	.165	.051	.273	.153	.048	.252	.143	.045	
3.0	.296	.158	.047	.285	.152	.046	.262	.142	.043	.242	.132	.041	.222	.123	.038	
4.0	.267	.139	.041	.256	.134	.040	.236	.125	.037	.217	.116	.035	.199	.108	.033	
5.0	.242	.124	.036	.233	.119	.035	.214	.111	.033	.197	.104	.031	.181	.097	.029	
6.0	.222	.111	.032	.213	.108	.031	.196	.101	.029	.180	.094	.028	.165	.087	.026	
7.0	.205	.101	.029	.196	.098	.028	.181	.091	.026	.166	.085	.025	.153	.079	.023	
8.0	.190	.093	.026	.182	.090	.025	.168	.084	.024	.154	.078	.023	.142	.073	.021	
9.0	.177	.085	.024	.170	.083	.023	.157	.077	.022	.144	.072	.021	.132	.067	.019	
10.0	.165	.079	.022	.159	.077	.021	.147	.072	.020	.135	.067	.019	.124	.062	.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	.372	.372	.372	.318	.318	.318	.217	.217	.217	.125	.125	.125	.040	.040	.040	
1.0	.369	.339	.312	.316	.291	.268	.216	.200	.186	.124	.116	.108	.040	.037	.035	
2.0	.362	.316	.278	.310	.272	.240	.213	.188	.167	.123	.110	.098	.039	.035	.032	
3.0	.355	.300	.256	.305	.259	.222	.209	.180	.156	.121	.105	.092	.039	.034	.030	
4.0	.348	.288	.242	.298	.249	.210	.205	.173	.148	.119	.102	.088	.038	.033	.029	
5.0	.340	.278	.232	.292	.241	.202	.201	.168	.143	.117	.099	.085	.038	.032	.028	
6.0	.333	.270	.226	.286	.234	.196	.197	.164	.139	.114	.096	.083	.037	.032	.027	
7.0	.326	.264	.220	.280	.229	.192	.194	.160	.136	.112	.094	.081	.036	.031	.027	
8.0	.319	.258	.217	.275	.224	.189	.190	.157	.134	.111	.093	.080	.036	.030	.026	
9.0	.313	.254	.214	.270	.220	.186	.187	.155	.132	.109	.091	.079	.035	.030	.026	
10.0	.307	.250	.211	.265	.217	.184	.184	.152	.131	.107	.090	.078	.035	.030	.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:0.2422A P:28.67W PF:0.9836 Lamp Flux:3249.58x1 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	17.1	18.4	17.6	19.0	19.6	20.0	21.3	20.6	21.9	22.6
3H	18.4	19.6	19.0	20.3	21.0	22.8	24.0	23.4	24.6	25.3
4H	18.9	20.0	19.5	20.7	21.4	24.3	25.4	24.9	26.1	26.8
6H	19.1	20.2	19.8	20.9	21.6	26.0	27.0	26.6	27.7	28.5
8H	19.1	20.2	19.8	20.8	21.6	26.9	27.9	27.5	28.6	29.4
12H	19.1	20.1	19.8	20.8	21.6	28.0	29.0	28.6	29.6	30.4
4H 2H	18.6	19.7	19.2	20.3	21.1	20.6	21.7	21.2	22.3	23.1
3H	20.2	21.3	20.9	21.9	22.7	23.5	24.5	24.2	25.2	26.0
4H	20.9	21.9	21.6	22.6	23.4	25.2	26.1	25.9	26.8	27.6
6H	21.4	22.2	22.1	23.0	23.8	27.1	27.9	27.8	28.6	29.5
8H	21.5	22.3	22.3	23.0	23.9	28.1	28.9	28.9	29.6	30.5
12H	21.6	22.3	22.3	23.0	23.9	29.3	30.1	30.1	30.8	31.7
8H 4H	22.2	23.0	22.9	23.7	24.6	25.5	26.3	26.2	27.0	27.9
6H	23.2	23.8	23.9	24.6	25.5	27.7	28.3	28.4	29.1	30.0
8H	23.5	24.1	24.3	24.9	25.8	28.9	29.5	29.7	30.3	31.2
12H	23.8	24.3	24.6	25.1	26.0	30.4	30.9	31.2	31.7	32.6
12H 4H	22.6	23.3	23.3	24.1	24.9	25.5	26.2	26.3	27.0	27.9
6H	23.8	24.4	24.6	25.2	26.1	27.8	28.3	28.5	29.1	30.0
8H	24.4	24.9	25.2	25.7	26.7	29.1	29.6	29.9	30.4	31.4
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 3250 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.1)

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:0.2422A P:28.67W PF:0.9836 Lamp Flux:3249.58x1 lm		
NAME: 36寸方形简易BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

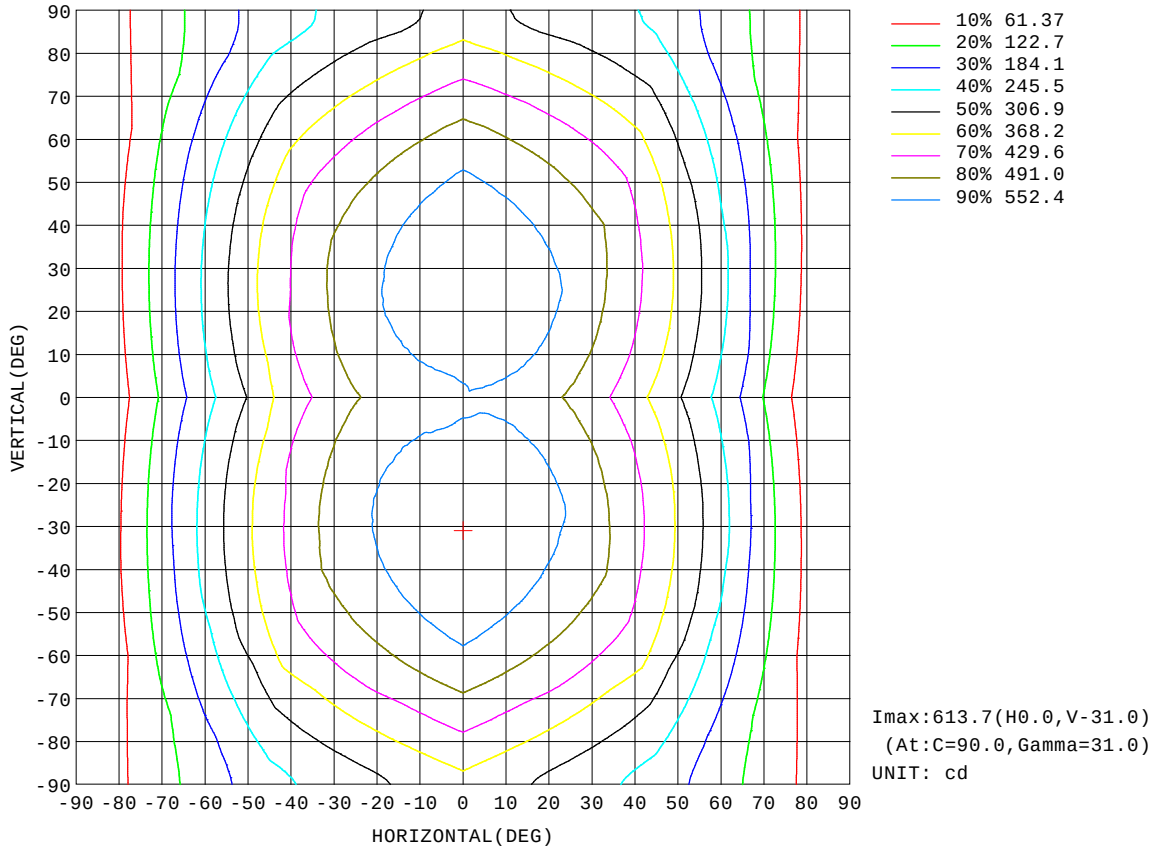
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	45	33	25	44	32	25	42	31	24	18
0.80	54	41	33	52	40	32	49	38	31	23
1.00	62	49	40	60	48	40	56	48	38	29
1.25	69	56	47	66	54	46	61	51	44	34
1.50	74	62	53	71	60	52	66	56	49	38
2.00	82	70	62	78	68	60	72	63	57	44
2.50	86	76	68	82	73	66	75	68	61	47
3.00	90	81	73	86	77	71	79	72	66	51
4.00	95	87	80	91	83	77	82	77	72	56
5.00	98	91	85	93	87	82	85	80	75	58
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:0.2422A P:28.67W PF:0.9836 Lamp Flux:3249.58x1 lm		
NAME: 36寸方形简易BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

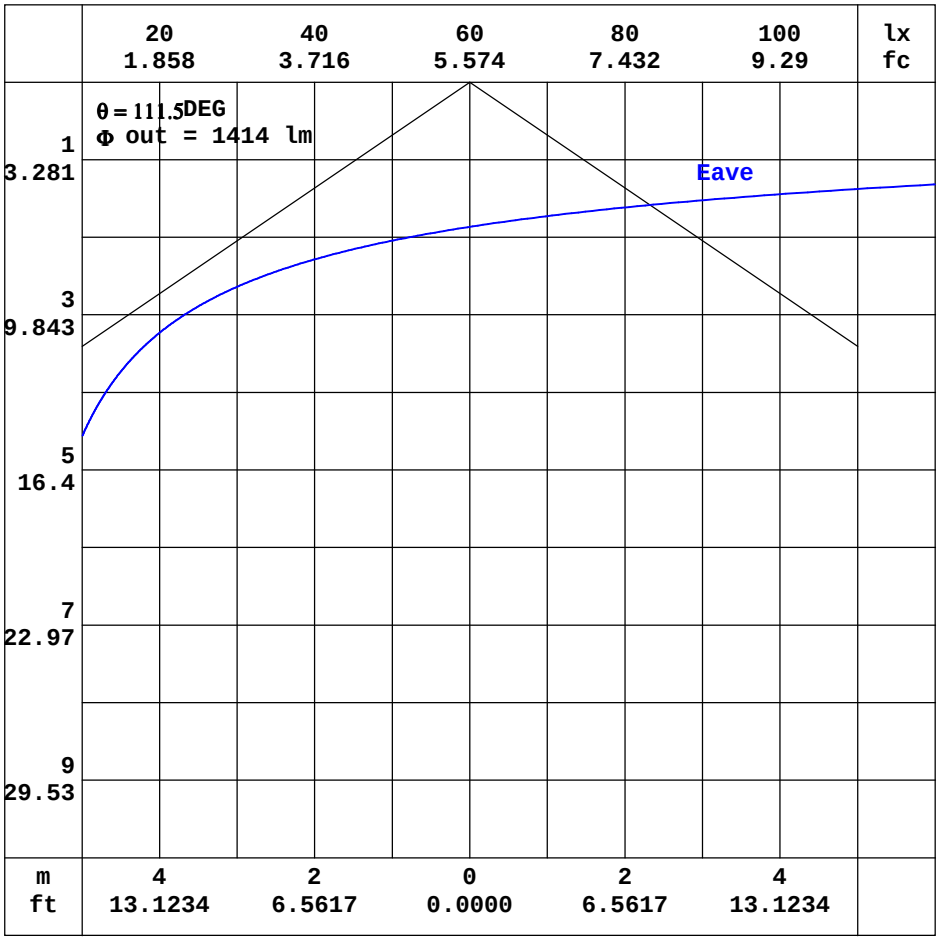


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-14

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:0.2422A P:28.67W PF:0.9836 Lamp Flux:3249.58x1 lm		
NAME: 36寸方形简易BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



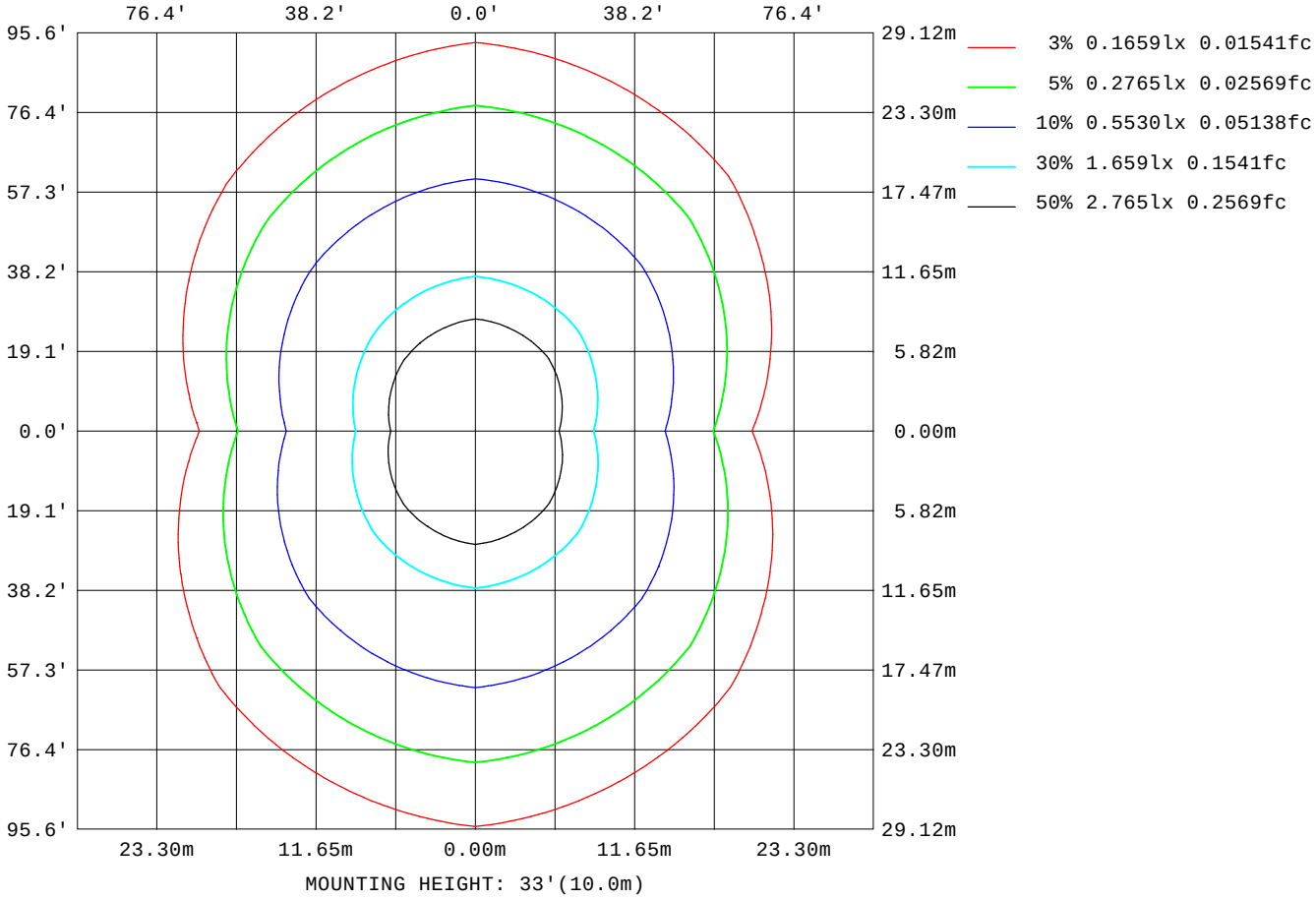
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

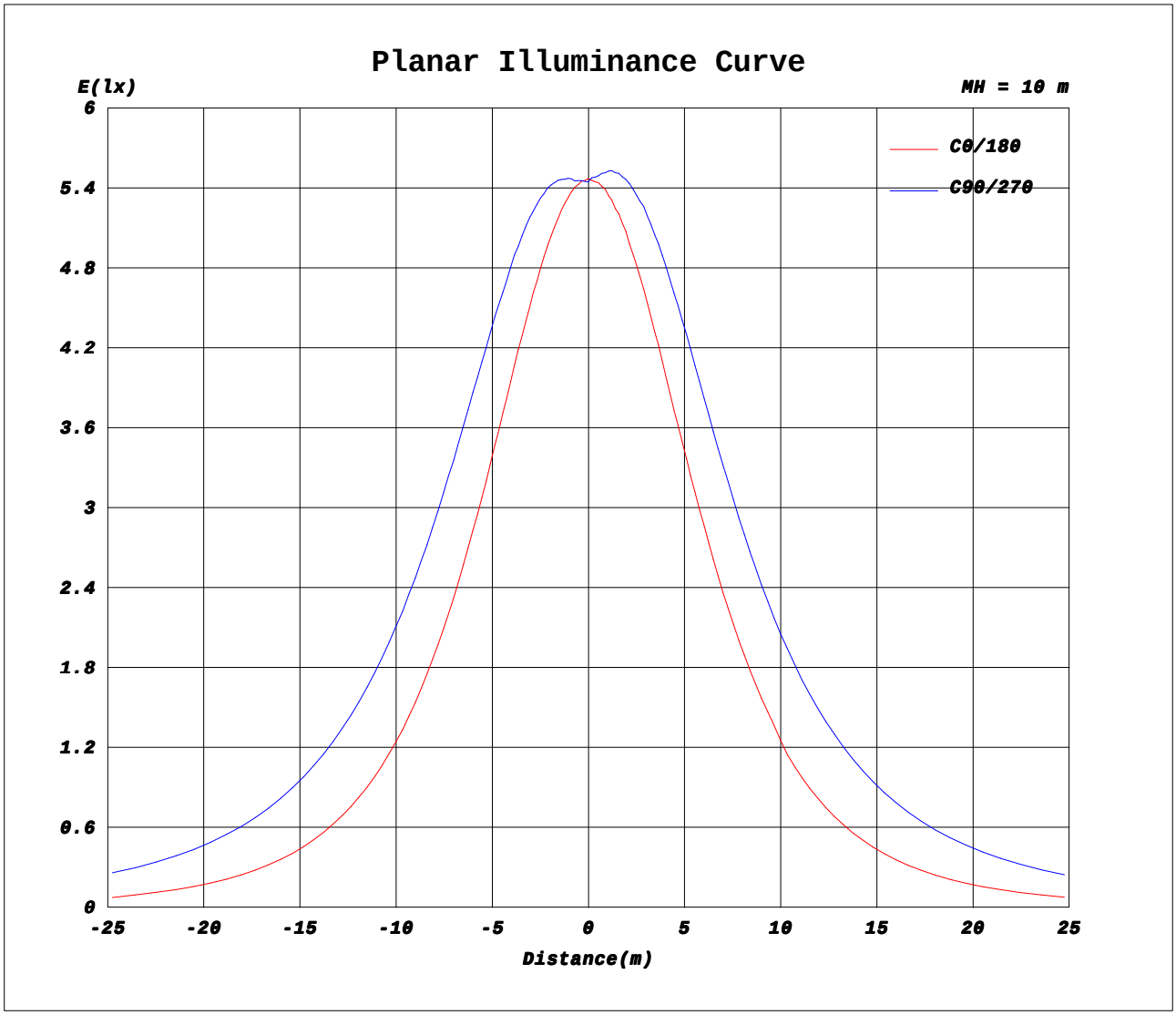
Test:U:120.3V I:0.2422A P:28.67W PF:0.9836 Lamp Flux:3249.58x1 lm		
NAME: 36寸方形简易BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



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:0.2422A P:28.67W PF:0.9836 Lamp Flux:3249.58x1 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	547	547	545	548	547	547	545	548
5	544	552	553	545	545	546	558	559
10	535	561	570	550	538	553	574	568
15	522	566	586	555	526	556	588	574
20	505	569	598	558	509	556	600	575
25	481	567	608	557	486	553	607	570
30	454	562	613	551	461	546	609	561
35	424	552	612	542	430	533	604	549
40	391	538	606	530	397	517	595	532
45	352	519	598	512	354	496	581	514
50	313	496	582	492	309	472	563	491
55	269	469	564	466	267	445	543	462
60	225	439	541	437	223	412	518	432
65	179	405	514	406	177	376	489	398
70	120	369	482	371	130	337	457	361
75	74.3	320	450	324	84.3	300	423	324
80	31.0	282	416	287	40.5	263	390	286
85	0.28	246	381	252	0.00	230	345	251
90	0.00	221	354	228	0.00	219	329	237
95	0.00	217	347	223	0.00	200	311	223
100	0.00	187	325	185	0.00	181	303	190
105	0.00	173	316	184	0.00	178	293	190
110	0.00	170	303	181	0.00	173	281	185
115	0.00	162	287	174	0.00	161	264	176
120	0.00	152	269	163	0.00	134	245	164
125	0.00	139	248	141	0.00	111	226	139
130	0.00	124	225	115	0.00	89.2	202	123
135	0.00	108	201	90.1	0.00	69.1	178	106
140	0.00	91.4	175	68.5	0.00	49.4	152	87.7
145	0.00	74.0	137	49.0	0.00	31.8	125	69.6
150	0.00	56.6	109	31.4	0.00	17.3	91.0	51.7
155	0.00	42.1	82.1	18.7	0.00	8.94	61.1	37.3
160	0.00	27.8	56.3	2.07	0.00	5.74	39.0	23.0
165	0.00	9.51	34.4	0.00	0.00	1.58	21.9	10.8
170	0.00	0.00	13.4	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