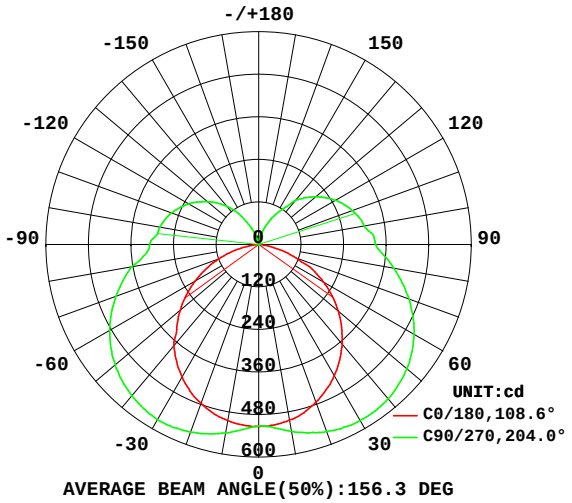
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.3V I:0.2489A P:29.48W PF:0.9842 Lamp Flux:3032.25x1 lm		
NAME:I-VBDF-30W-TD/DV-5CCT-L36"	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: ASL	SUR.:	PROTECTION ANGLE:

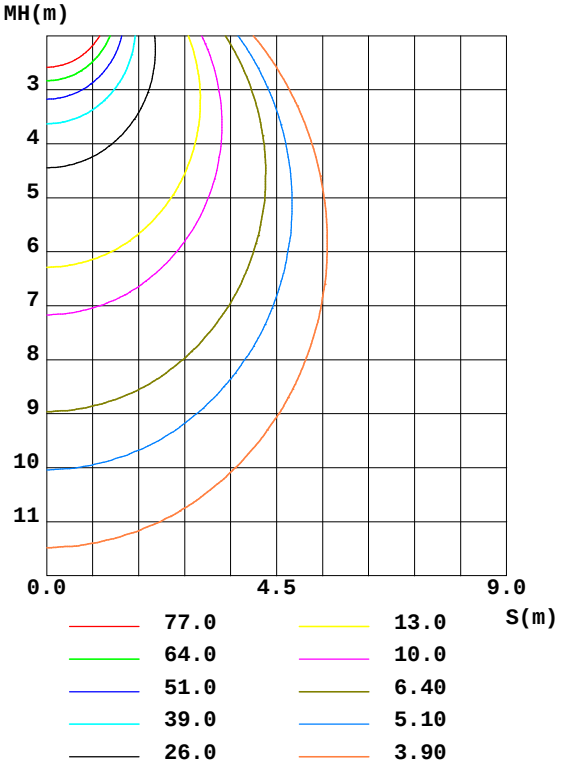
DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.85 lm/W			
MODEL		Imax(cd)	574.0	S/MH(C0/180)	1.24
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.68
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	3032.2	η UP,DN(C0-180)	12.2,38.4
NOMINAL FLUX(lm)	3032.25	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	11.5,37.9
LAMPS INSIDE	1	η up(%)	23.7	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	120.3	η down(%)	76.3	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):156.3 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	502.9	526.5	535.5	515.0	504.5	520.4	539.8	532.7	0- 10	49.52	49.52	1.63,1.63
20	473.2	531.6	561.3	522.8	477.1	524.9	564.1	539.3	10- 20	148.7	198.3	6.54,6.54
30	427.6	522.9	573.1	517.6	432.0	515.2	571.1	525.9	20- 30	240.0	438.2	14.5,14.5
40	367.4	497.9	567.8	496.3	372.3	489.8	557.2	499.9	30- 40	311.9	750.1	24.7,24.7
50	293.3	457.6	546.2	460.4	289.5	449.5	527.9	459.0	40- 50	354.9	1105	36.4,36.4
60	211.4	401.8	506.2	408.9	207.8	395.6	485.9	404.0	50- 60	365.2	1470	48.5,48.5
70	112.5	325.1	451.4	335.4	120.7	325.1	428.4	337.7	60- 70	339.7	1810	59.7,59.7
80	28.51	253.9	387.5	267.3	36.60	253.8	364.9	267.4	70- 80	283.4	2093	69,69
90	0	203.8	330.2	212.2	0	203.4	307.7	221.4	80- 90	220.4	2314	76.3,76.3
100	0	166.8	303.2	171.7	0	167.9	282.6	177.7	90-100	190.7	2504	82.6,82.6
110	0	156.7	281.2	168.1	0	161.5	261.5	172.9	100-110	163.9	2668	88,88
120	0	139.4	250.3	151.4	0	126.3	229.1	141.9	110-120	140.2	2808	92.6,92.6
130	0	112.8	209.9	105.9	0	84.58	187.9	113.4	120-130	104.6	2913	96.1,96.1
140	0	81.90	162.8	62.69	0	46.60	141.2	80.74	130-140	67.73	2981	98.3,98.3
150	0	50.18	100.7	28.36	0	15.80	82.93	46.93	140-150	35.53	3016	99.5,99.5
160	0	23.33	51.04	0.2653	0	4.728	35.03	20.21	150-160	13.38	3030	99.9,99.9
170	0	0	11.07	0	0	0	0	0	160-170	2.578	3032	100,100
180	0	0	0	0	0	0	0	0	170-180	0.0364	3032	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

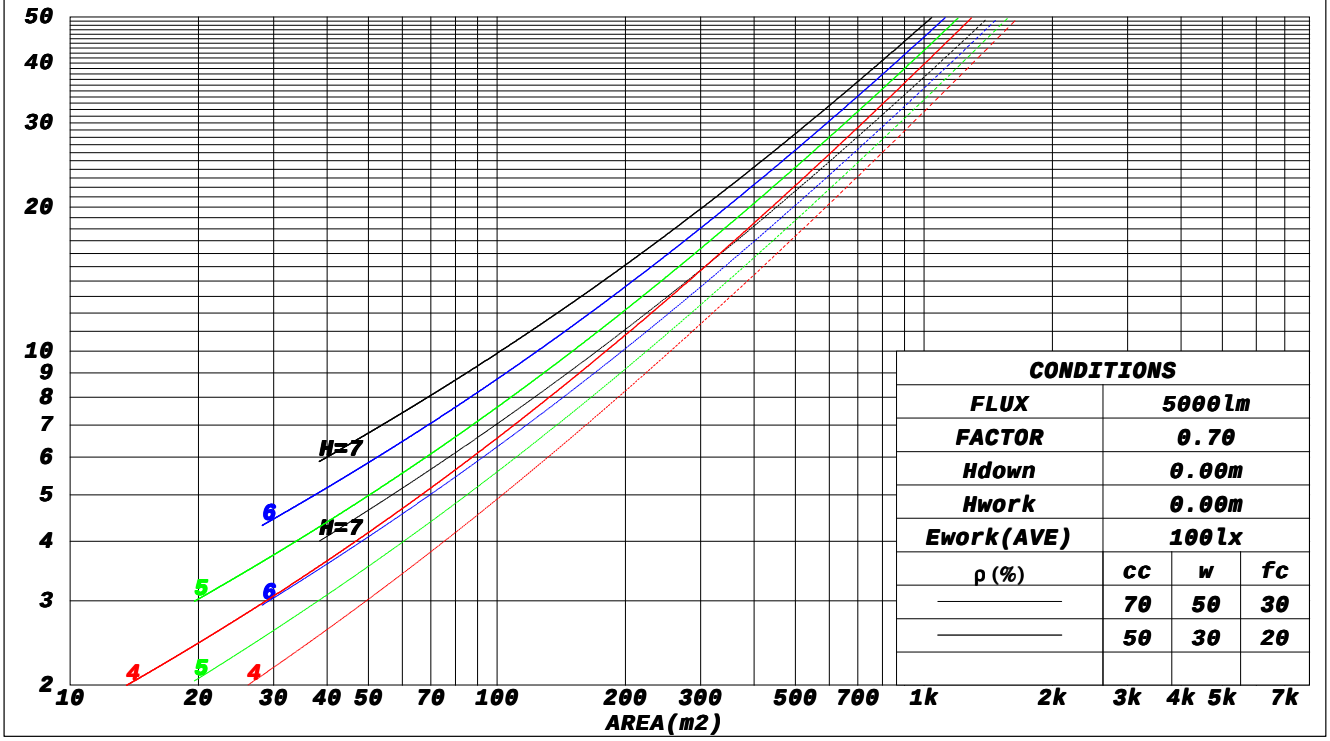
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.2489A P:29.48W PF:0.9842 Lamp Flux:3032.25x1 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	.74	.73	.70	.67	.66	.63	.61	.57
2.0	.80	.72	.66	.76	.69	.63	.69	.63	.58	.62	.57	.53	.56	.52	.49	.45
3.0	.69	.60	.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	.37	.33	.30
5.0	.54	.44	.37	.51	.43	.36	.46	.39	.33	.42	.36	.31	.38	.33	.28	.26
6.0	.48	.39	.32	.46	.37	.31	.42	.34	.29	.38	.31	.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	.24	.34	.27	.22	.31	.25	.21	.28	.23	.19	.17
9.0	.36	.27	.22	.34	.26	.21	.31	.24	.20	.29	.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:0.2489A P:29.48W PF:0.9842 Lamp Flux:3032.25x1 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	.171	.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	.223	.123	.038	
4.0	.267	.139	.041	.256	.134	.040	.236	.125	.037	.217	.116	.035	.199	.108	.033	
5.0	.242	.123	.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	.166	.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	.155	.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	.371	.371	.371	.317	.317	.317	.216	.216	.216	.124	.124	.124	.040	.040	.040	
1.0	.368	.338	.310	.315	.290	.267	.215	.199	.185	.124	.115	.107	.040	.037	.035	
2.0	.361	.315	.276	.309	.271	.239	.212	.188	.167	.122	.109	.098	.039	.035	.032	
3.0	.354	.299	.255	.303	.258	.221	.208	.179	.155	.120	.105	.091	.039	.034	.030	
4.0	.346	.286	.241	.297	.248	.209	.204	.172	.147	.118	.101	.087	.038	.033	.029	
5.0	.339	.277	.231	.291	.239	.201	.200	.167	.142	.116	.098	.084	.037	.032	.028	
6.0	.331	.269	.224	.285	.233	.195	.196	.163	.138	.114	.096	.082	.037	.031	.027	
7.0	.324	.262	.219	.279	.228	.191	.193	.160	.135	.112	.094	.081	.036	.031	.027	
8.0	.318	.257	.215	.274	.223	.188	.189	.157	.133	.110	.092	.079	.036	.030	.026	
9.0	.312	.252	.212	.268	.219	.185	.186	.154	.131	.108	.091	.078	.035	.030	.026	
10.0	.306	.248	.210	.264	.216	.183	.183	.152	.130	.107	.090	.078	.035	.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:0.2489A P:29.48W PF:0.9842 Lamp Flux:3032.25x1 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	16.8	18.1	17.4	18.7	19.4	19.7	21.0	20.3	21.6	22.3
3H	18.1	19.3	18.7	19.9	20.6	22.5	23.7	23.1	24.3	25.0
4H	18.5	19.7	19.2	20.3	21.1	24.0	25.2	24.6	25.8	26.5
6H	18.8	19.9	19.4	20.5	21.3	25.7	26.8	26.3	27.4	28.2
8H	18.8	19.8	19.4	20.5	21.3	26.6	27.7	27.3	28.3	29.1
12H	18.7	19.8	19.4	20.4	21.2	27.7	28.7	28.4	29.4	30.2
4H 2H	18.2	19.4	18.8	20.0	20.7	20.2	21.4	20.9	22.0	22.8
3H	19.8	20.9	20.5	21.5	22.3	23.2	24.2	23.9	24.9	25.7
4H	20.5	21.5	21.2	22.2	23.0	24.9	25.8	25.6	26.5	27.3
6H	21.0	21.8	21.7	22.6	23.4	26.8	27.6	27.5	28.3	29.2
8H	21.1	21.9	21.9	22.6	23.5	27.8	28.6	28.6	29.3	30.2
12H	21.2	21.9	21.9	22.6	23.5	29.1	29.8	29.8	30.5	31.4
8H 4H	21.8	22.6	22.5	23.3	24.2	25.2	26.0	25.9	26.7	27.6
6H	22.7	23.4	23.5	24.1	25.0	27.3	28.0	28.1	28.7	29.7
8H	23.1	23.7	23.9	24.5	25.4	28.6	29.2	29.4	30.0	30.9
12H	23.3	23.9	24.1	24.6	25.6	30.1	30.6	30.9	31.4	32.3
12H 4H	22.2	22.9	22.9	23.6	24.5	25.2	25.9	25.9	26.6	27.5
6H	23.4	24.0	24.2	24.8	25.7	27.4	28.0	28.2	28.8	29.7
8H	24.0	24.5	24.8	25.3	26.2	28.8	29.3	29.6	30.1	31.0
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 3032 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.9)

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:0.2489A P:29.48W PF:0.9842 Lamp Flux:3032.25x1 lm		
NAME: 36寸方形简易BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

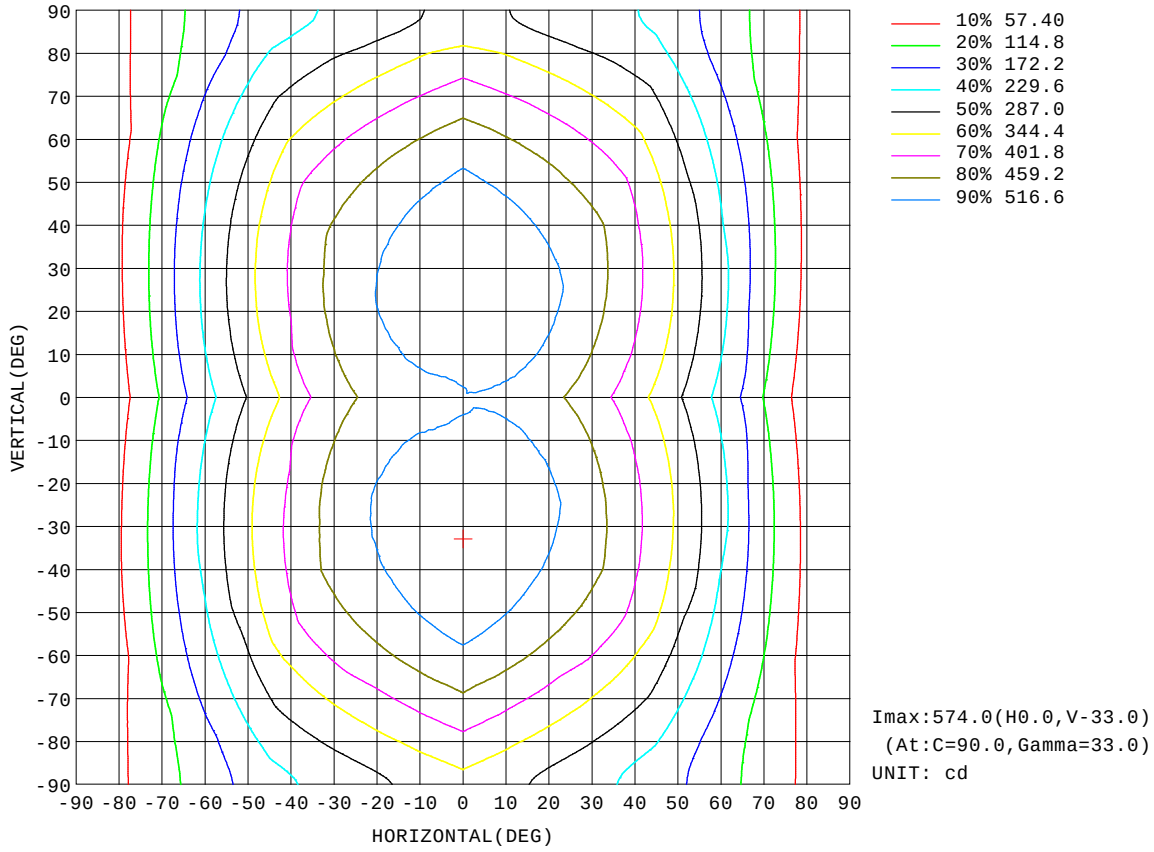
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	45	33	25	44	32	25	42	31	25	18
0.80	54	41	33	53	40	32	49	39	31	23
1.00	62	49	40	60	48	40	56	48	38	29
1.25	69	56	47	66	55	46	62	52	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	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:0.2489A P:29.48W PF:0.9842 Lamp Flux:3032.25x1 lm		
NAME: 36寸方形简易BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:

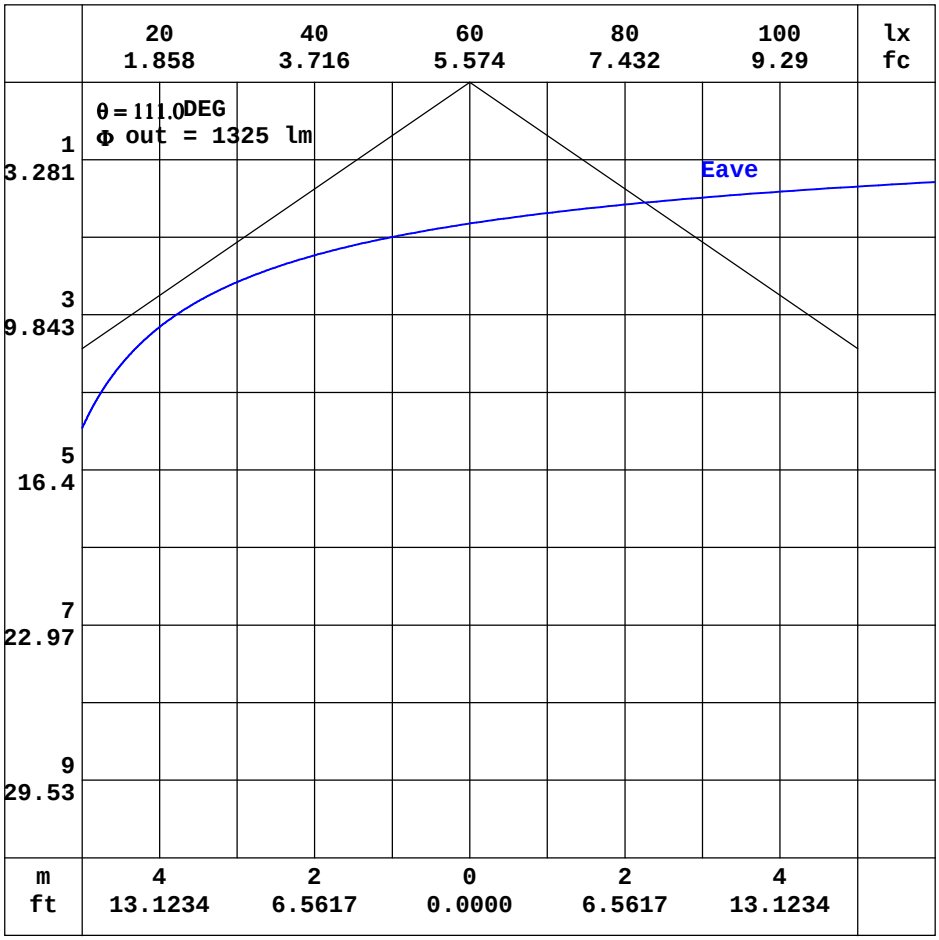


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-09-14

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:0.2489A P:29.48W PF:0.9842 Lamp Flux:3032.25x1 lm		
NAME: 36寸方形简易BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



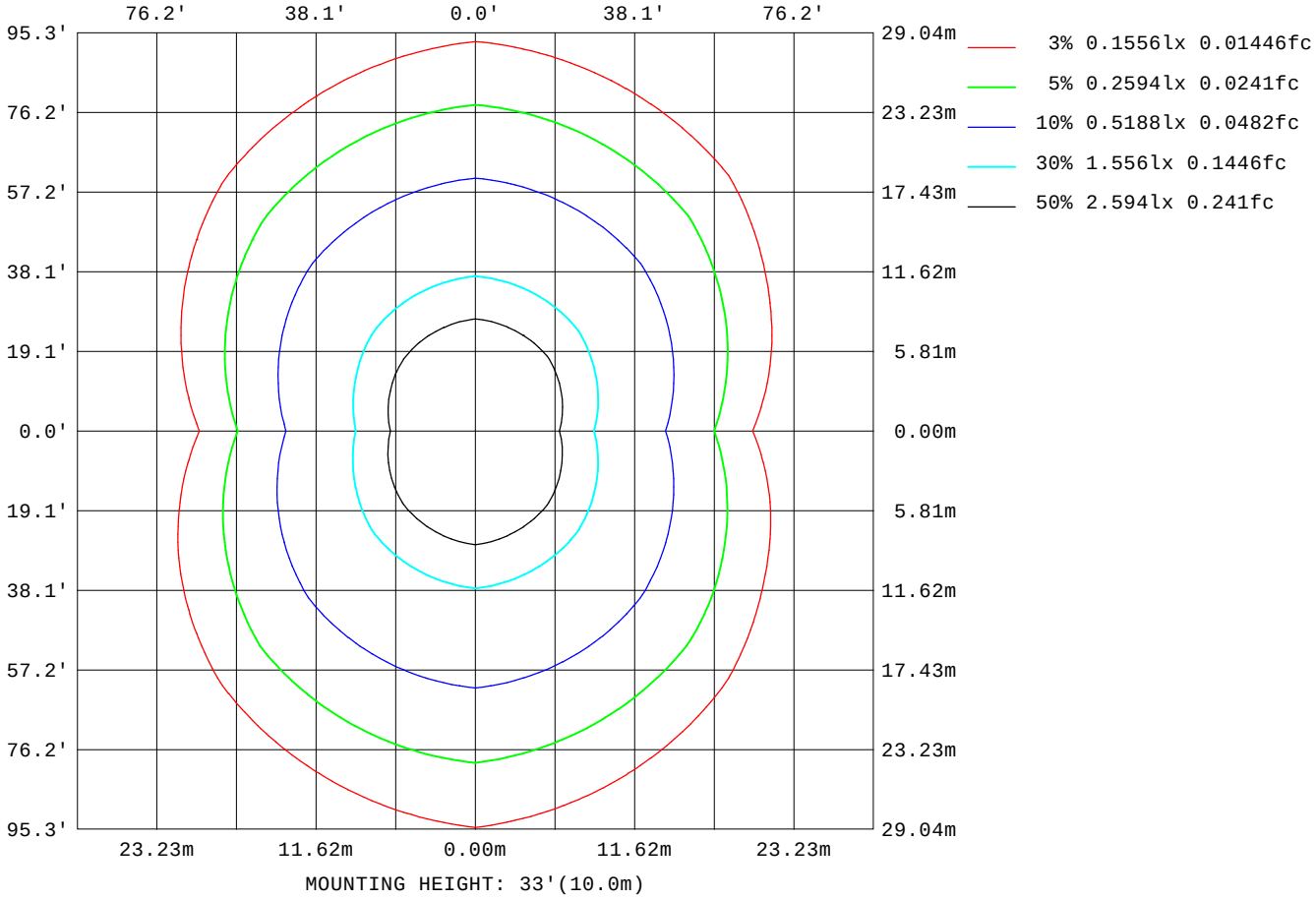
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

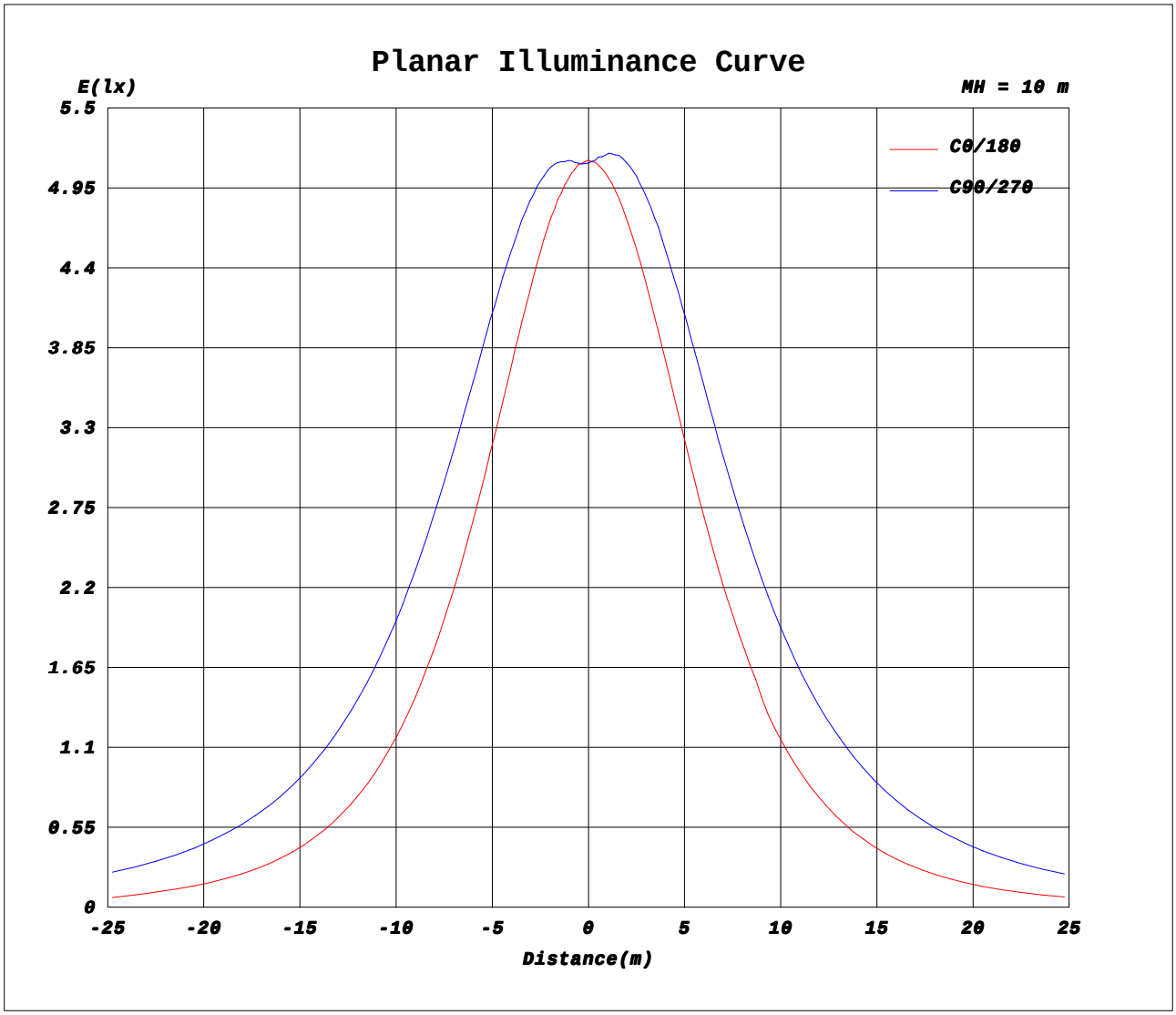
Test:U:120.3V I:0.2489A P:29.48W PF:0.9842 Lamp Flux:3032.25x1 lm		
NAME: 36寸方形简易BN-5CCT	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: WORBEST	SUR.:	PROTECTION ANGLE:



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:0.2489A P:29.48W PF:0.9842 Lamp Flux:3032.25x1 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	514	513	512	515	514	513	512	515
5	511	519	520	511	511	515	524	524
10	503	527	536	515	504	520	540	533
15	492	532	550	521	494	525	553	537
20	473	532	561	523	477	525	564	539
25	452	530	569	522	457	522	570	535
30	428	523	573	518	432	515	571	526
35	398	512	573	509	404	504	566	514
40	367	498	568	496	372	490	557	500
45	331	479	558	479	327	472	545	481
50	293	458	546	460	289	449	528	459
55	253	432	528	436	250	425	509	432
60	211	402	506	409	208	396	486	404
65	168	370	481	379	165	362	458	372
70	113	325	451	335	121	325	428	338
75	69.2	289	419	301	77.6	289	397	303
80	28.5	254	387	267	36.6	254	365	267
85	0.00	221	355	234	0.00	220	321	235
90	0.00	204	330	212	0.00	203	308	221
95	0.00	199	324	207	0.00	192	291	208
100	0.00	167	303	172	0.00	168	283	178
105	0.00	160	294	171	0.00	165	274	178
110	0.00	157	281	168	0.00	162	262	173
115	0.00	149	267	162	0.00	140	246	164
120	0.00	139	250	151	0.00	126	229	142
125	0.00	127	231	131	0.00	106	209	128
130	0.00	113	210	106	0.00	84.6	188	113
135	0.00	97.6	187	83.0	0.00	65.4	166	97.7
140	0.00	81.9	163	62.7	0.00	46.6	141	80.7
145	0.00	66.0	126	44.7	0.00	29.9	115	63.7
150	0.00	50.2	101	28.4	0.00	15.8	82.9	46.9
155	0.00	36.7	75.0	16.3	0.00	8.00	55.4	33.5
160	0.00	23.3	51.0	0.27	0.00	4.73	35.0	20.2
165	0.00	1.89	30.6	0.00	0.00	0.16	19.6	8.77
170	0.00	0.00	11.1	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