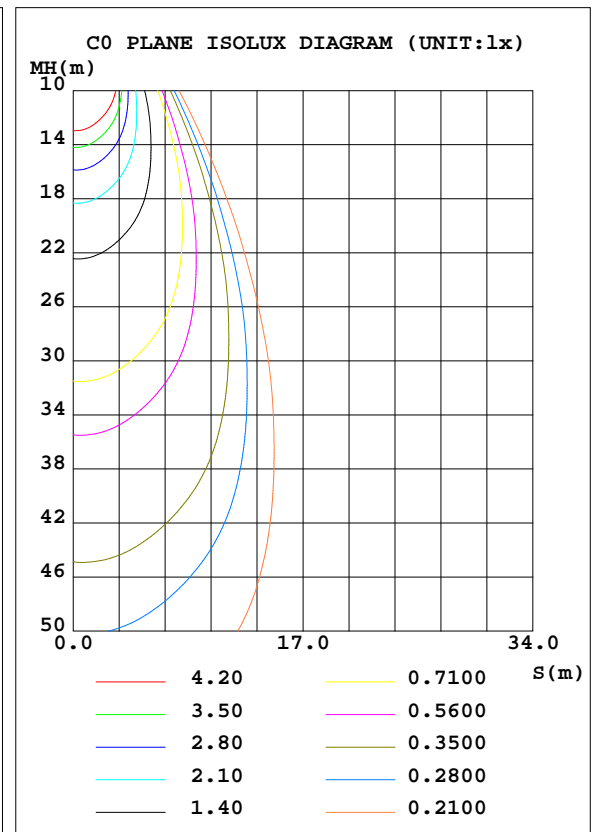
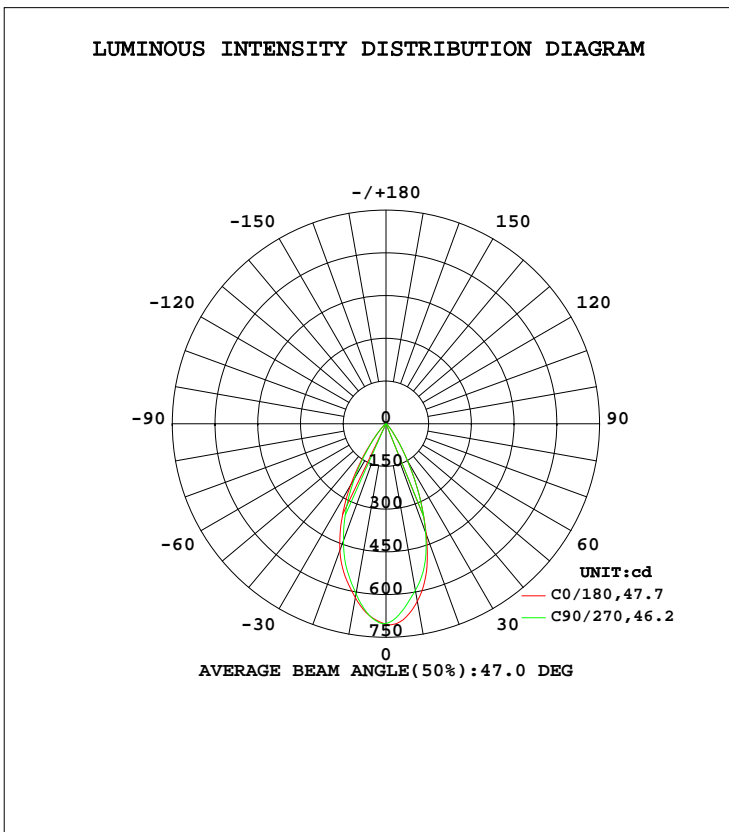


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:232.06V I:0.0422A P:9.3251W PF:0.9522 Freq:49.99Hz Lamp Flux:443.348x1 lm		
NAME: DL324-BKTC7C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 42mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 47.54 lm/W			
MODEL	TB1307 5700K	I _{max} (cd)	706.5	S/MH(C0/180)	0.79
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	0.75
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	443.35	η UP, DN(C0-180)	0.0,47.1
NOMINAL FLUX(lm)	443.348	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,52.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.75



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2025-07-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
 Humidity:65.0%
 Test Distance:7.880m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

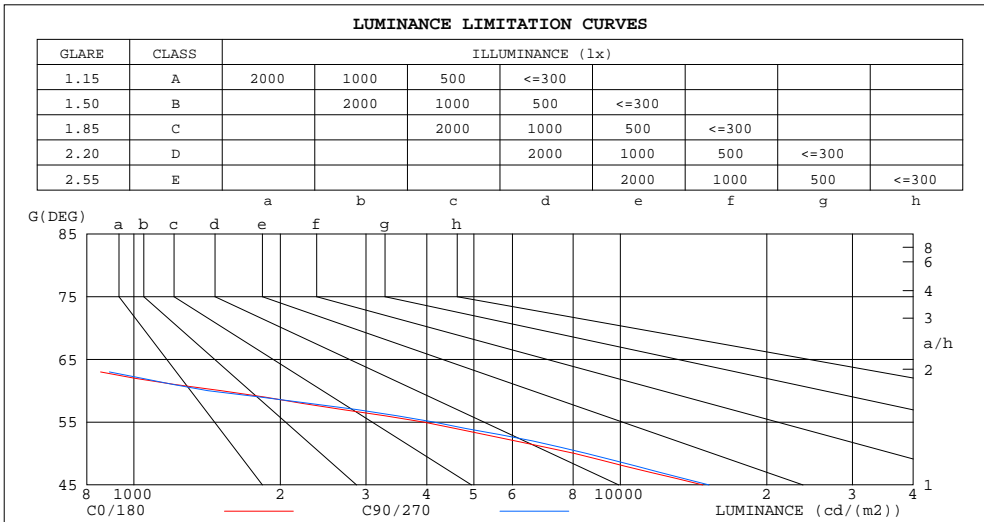
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	633.4	621.6	594.3	641.4	620.3	617.8	606.4	644.5	0- 10	62.82	62.82	14.2,14.2
20	414.3	401.0	407.5	470.1	473.6	461.1	436.2	442.0	10- 20	150.1	212.9	48,48
30	154.6	146.5	155.1	211.5	248.0	250.8	221.7	193.4	20- 30	142.5	355.4	80.2,80.2
40	30.90	29.06	31.83	47.03	61.10	68.34	55.79	43.65	30- 40	66.51	422.0	95.2,95.2
50	7.189	7.374	7.612	9.325	11.32	12.19	10.58	9.388	40- 50	16.82	438.8	99,99
60	1.050	1.045	0.9863	1.175	1.993	1.822	1.727	1.462	50- 60	4.000	442.8	99.9,99.9
70	0.0556	0.0786	0.0969	0.1613	0.1279	0.1923	0.1877	0.1372	60- 70	0.5399	443.3	100,100
80	0	0	0	0	0	0	0	0	70- 80	0.0267	443.3	100,100
90	0	0	0	0	0	0	0	0	80- 90	0	443.3	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2025-07-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
 Humidity:65.0%
 Test Distance:7.880m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:232.06V I:0.0422A P:9.3251W PF:0.9522 Freq:49.99Hz Lamp Flux:443.348x1 lm		
NAME: DL324-BKTC7C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 42mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	117	204
65	604	651
60	1511	1419
55	3938	4134
50	8046	8520
45	14775	15220

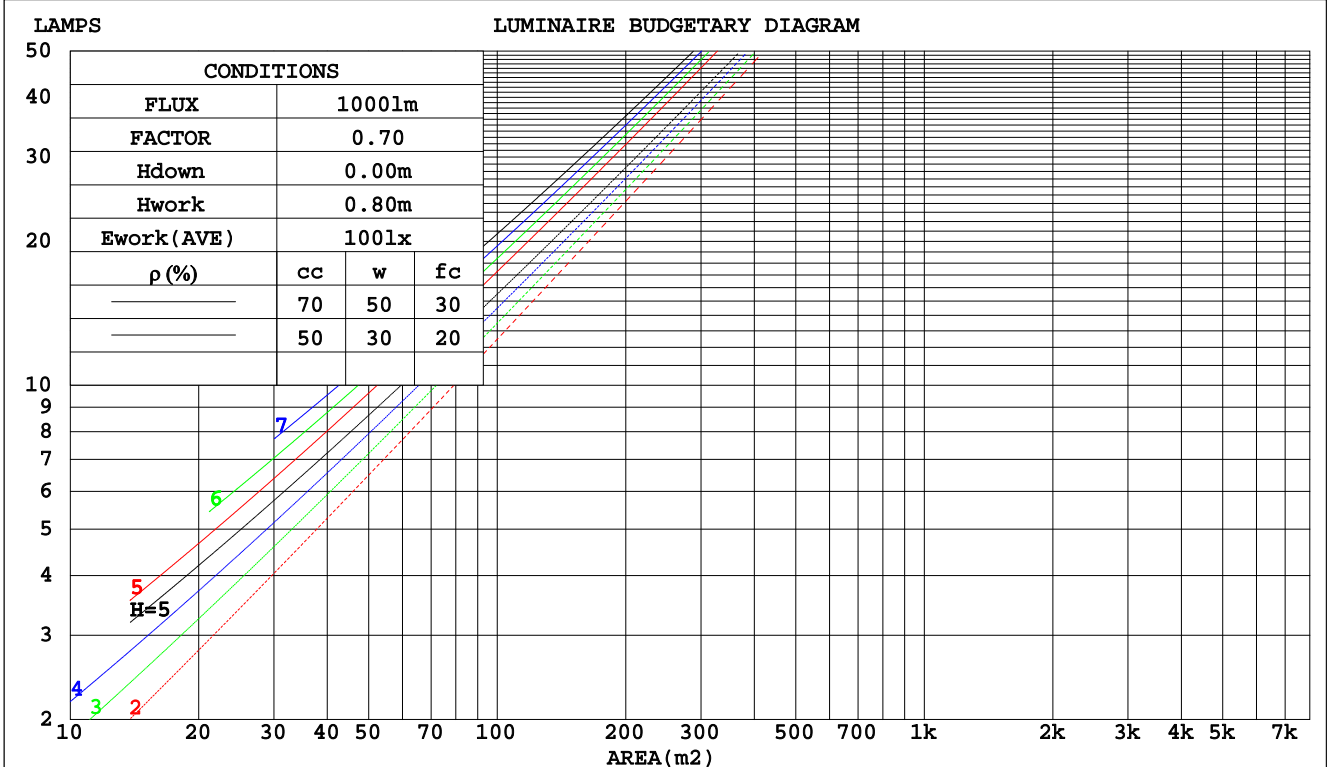
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2025-07-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.880m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:232.06V I:0.0422A P:9.3251W PF:0.9522 Freq:49.99Hz Lamp Flux:443.348x1 lm		
NAME: DL324-BKTC7C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 42mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.01	.97	1.03	.99	.96	.99	.97	.94	.96	.94	.92	.94	.92	.90	.89
3.0	.98	.93	.90	.97	.92	.89	.94	.90	.88	.92	.89	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.81	.85	.82	.80	.78
5.0	.87	.82	.78	.86	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.75	.74
6.0	.82	.77	.73	.81	.76	.73	.80	.75	.72	.79	.75	.72	.77	.74	.71	.70
7.0	.78	.72	.68	.77	.72	.68	.76	.71	.68	.75	.71	.68	.74	.70	.67	.66
8.0	.74	.68	.65	.73	.68	.64	.72	.68	.64	.71	.67	.64	.70	.67	.64	.62
9.0	.70	.65	.61	.70	.65	.61	.69	.64	.61	.68	.64	.61	.67	.63	.60	.59
10.0	.67	.62	.58	.67	.61	.58	.66	.61	.58	.65	.61	.58	.64	.60	.57	.56



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2025-07-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.880m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:232.06V I:0.0422A P:9.3251W PF:0.9522 Freq:49.99Hz Lamp Flux:443.348x1 lm		
NAME: DL324-BKTC7C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 42mm	Shielding 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 Coefficients(WEC)									
0.0																
1.0	.167	.095	.030	.160	.091	.029	.147	.085	.027	.136	.078	.025	.125	.073	.023	
2.0	.159	.087	.027	.153	.084	.026	.143	.079	.025	.133	.075	.023	.124	.070	.022	
3.0	.151	.080	.024	.146	.078	.024	.137	.074	.023	.129	.071	.022	.121	.067	.021	
4.0	.144	.075	.022	.140	.073	.022	.132	.070	.021	.125	.067	.020	.118	.064	.020	
5.0	.137	.070	.020	.133	.068	.020	.127	.066	.019	.121	.064	.019	.115	.061	.018	
6.0	.131	.066	.019	.128	.064	.019	.122	.062	.018	.116	.060	.018	.111	.059	.017	
7.0	.125	.062	.018	.122	.061	.017	.117	.059	.017	.112	.058	.017	.108	.056	.016	
8.0	.120	.059	.016	.117	.058	.016	.113	.056	.016	.108	.055	.016	.104	.054	.016	
9.0	.115	.056	.016	.113	.055	.015	.109	.054	.015	.105	.053	.015	.101	.051	.015	
10.0	.110	.053	.015	.108	.052	.015	.105	.051	.014	.101	.050	.014	.098	.049	.014	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.170	.157	.146	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.113	.091	.121	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.131	.099	.074	.112	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.122	.087	.061	.105	.075	.053	.072	.053	.038	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.067	.044	.068	.047	.031	.039	.028	.019	.013	.009	.006	
7.0	.108	.070	.043	.093	.060	.038	.064	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.102	.063	.037	.088	.055	.032	.061	.039	.023	.035	.023	.014	.011	.007	.005	
9.0	.097	.058	.032	.083	.050	.028	.058	.035	.020	.034	.021	.012	.011	.007	.004	
10.0	.092	.054	.028	.079	.047	.025	.055	.033	.017	.032	.019	.010	.010	.006	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2025-07-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
 Humidity:65.0%
 Test Distance:7.880m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:232.06V I:0.0422A P:9.3251W PF:0.9522 Freq:49.99Hz Lamp Flux:443.348x1 lm										
NAME: DL324-BKTC7C02					TYPE:			WEIGHT:		
SPEC.: black RA90 3000K+5700K					DIM.:			SERIAL No.:		
MFR.:					SUR.: 42mm			Shielding 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	18.5	19.4	18.8	19.6	19.7	18.7	19.6	18.9	19.7	19.9
3H	18.4	19.2	18.6	19.4	19.6	18.5	19.3	18.8	19.5	19.7
4H	18.3	19.0	18.6	19.3	19.5	18.4	19.2	18.7	19.4	19.6
6H	18.2	18.9	18.5	19.1	19.4	18.3	19.0	18.6	19.3	19.5
8H	18.1	18.8	18.5	19.1	19.3	18.3	19.0	18.6	19.2	19.5
12H	18.1	18.8	18.4	19.0	19.3	18.2	18.9	18.6	19.2	19.4
4H 2H	18.3	19.1	18.6	19.3	19.5	18.4	19.2	18.7	19.4	19.6
3H	18.1	18.8	18.4	19.0	19.3	18.3	18.9	18.6	19.2	19.5
4H	18.0	18.6	18.4	18.9	19.2	18.2	18.8	18.5	19.1	19.4
6H	17.9	18.4	18.3	18.8	19.1	18.1	18.6	18.4	18.9	19.3
8H	17.9	18.4	18.3	18.7	19.1	18.0	18.5	18.4	18.8	19.2
12H	17.8	18.3	18.2	18.6	19.0	18.0	18.4	18.4	18.8	19.2
8H 4H	17.9	18.4	18.3	18.7	19.1	18.0	18.5	18.4	18.8	19.2
6H	17.8	18.2	18.2	18.6	19.0	17.9	18.3	18.3	18.7	19.1
8H	17.7	18.1	18.2	18.5	18.9	17.9	18.2	18.3	18.6	19.1
12H	17.7	18.0	18.1	18.4	18.9	17.8	18.1	18.3	18.5	19.0
12H 4H	17.8	18.3	18.2	18.6	19.0	18.0	18.4	18.4	18.8	19.2
6H	17.7	18.1	18.2	18.5	18.9	17.9	18.2	18.3	18.6	19.1
8H	17.7	18.0	18.1	18.4	18.9	17.8	18.1	18.3	18.5	19.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.7 / -12.0					+ 3.8 / -11.3				
1.5H	+ 5.6 / - 8.5					+ 5.7 / - 8.3				
2.0H	+ 6.0 / -11.9					+ 5.9 / -11.2				

CIE Pub.117, 443.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.8)
 Area: 0.00139 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2025-07-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
 Humidity:65.0%
 Test Distance:7.880m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:232.06V I:0.0422A P:9.3251W PF:0.9522 Freq:49.99Hz Lamp Flux:443.348x1 lm		
NAME: DL324-BKTC7C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 42mm	Shielding Angle:

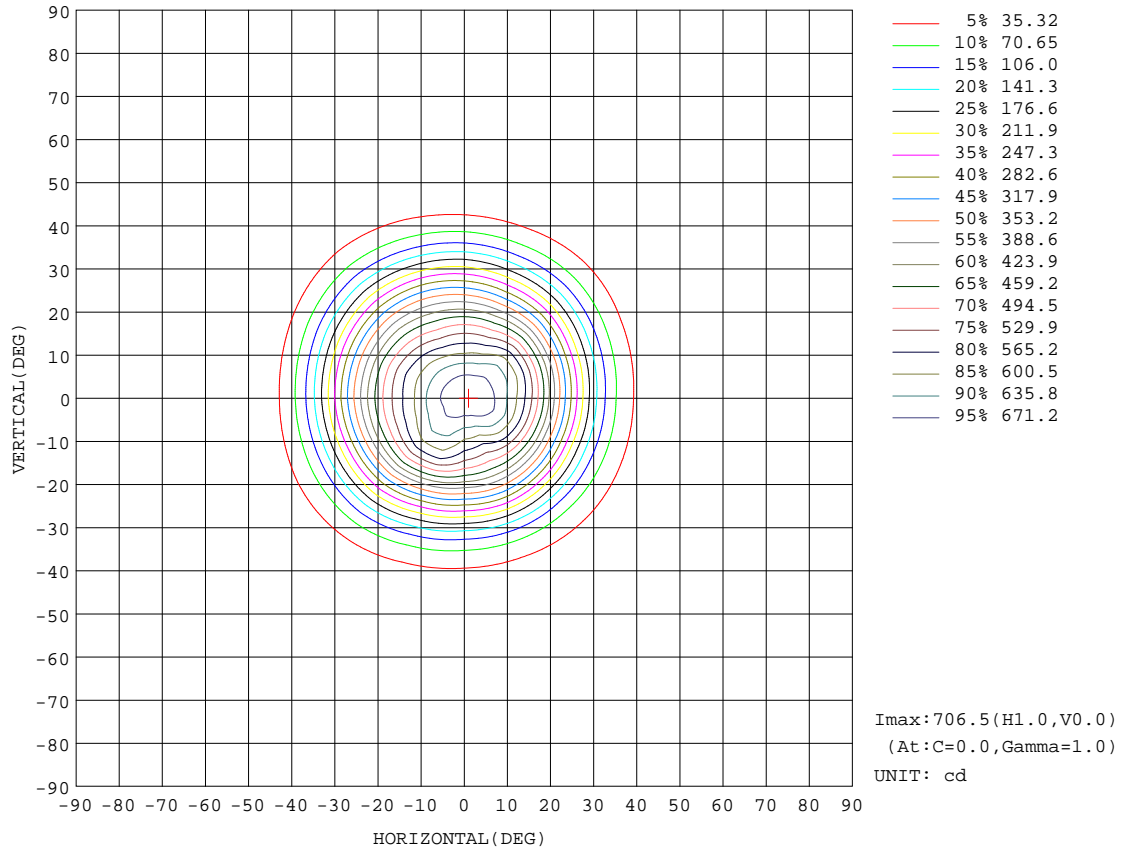
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	88	82	79	88	82	79	87	82	78	75
0.80	96	90	87	95	90	87	94	89	86	83
1.00	100	95	91	99	94	91	98	94	91	87
1.25	104	99	96	103	98	95	101	97	95	91
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	95
2.50	111	107	104	109	106	103	106	103	101	96
3.00	112	109	106	110	107	105	107	105	103	97
4.00	114	111	109	112	110	108	108	107	105	98
5.00	115	113	111	113	111	110	109	108	107	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2025-07-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
 Humidity:65.0%
 Test Distance:7.880m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:232.06V I:0.0422A P:9.3251W PF:0.9522 Freq:49.99Hz Lamp Flux:443.348x1 lm		
NAME: DL324-BKTC7C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 42mm	Shielding Angle:

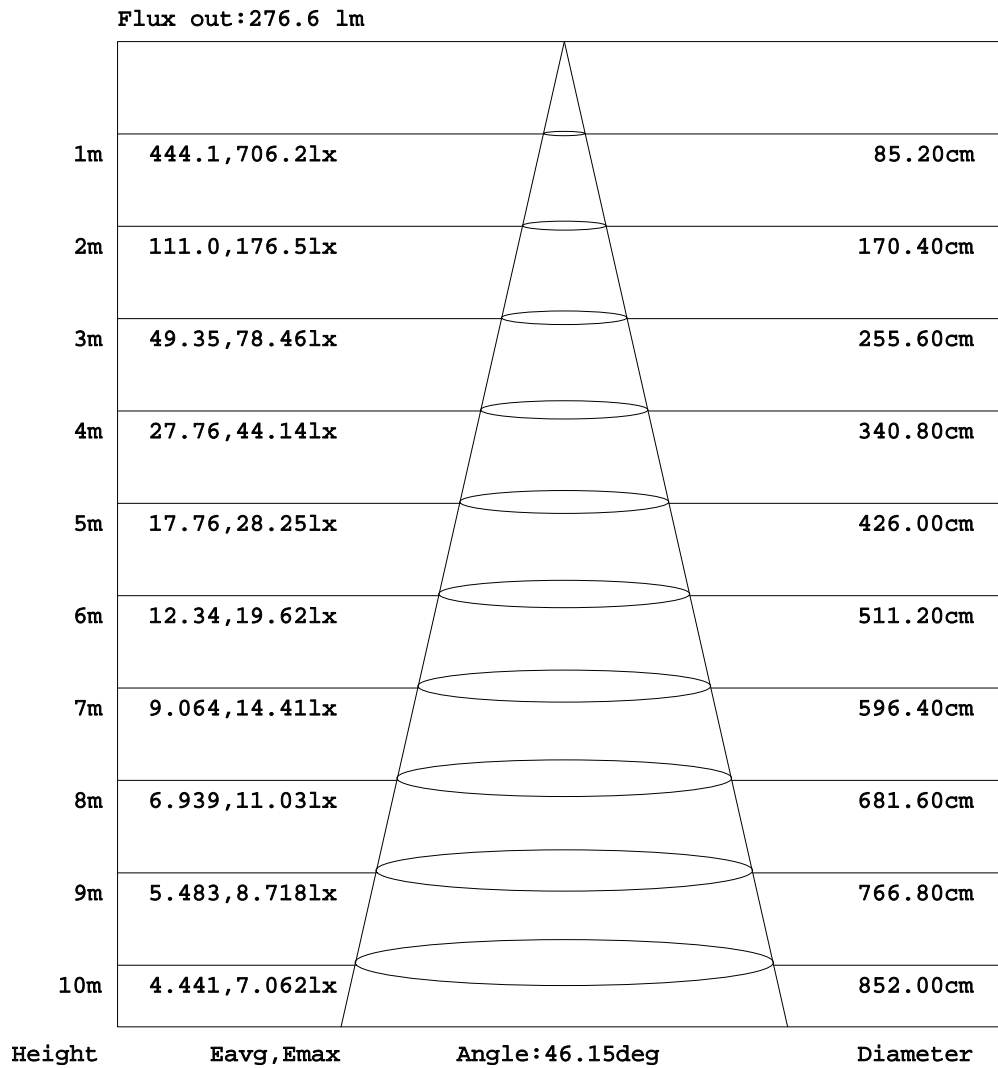


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2025-07-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.880m [K=1.0000]
 Remarks:

AAI Figure

Test:U:232.06V I:0.0422A P:9.3251W PF:0.9522 Freq:49.99Hz Lamp Flux:443.348x1 lm		
NAME: DL324-BKTC7C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 42mm	Shielding Angle:



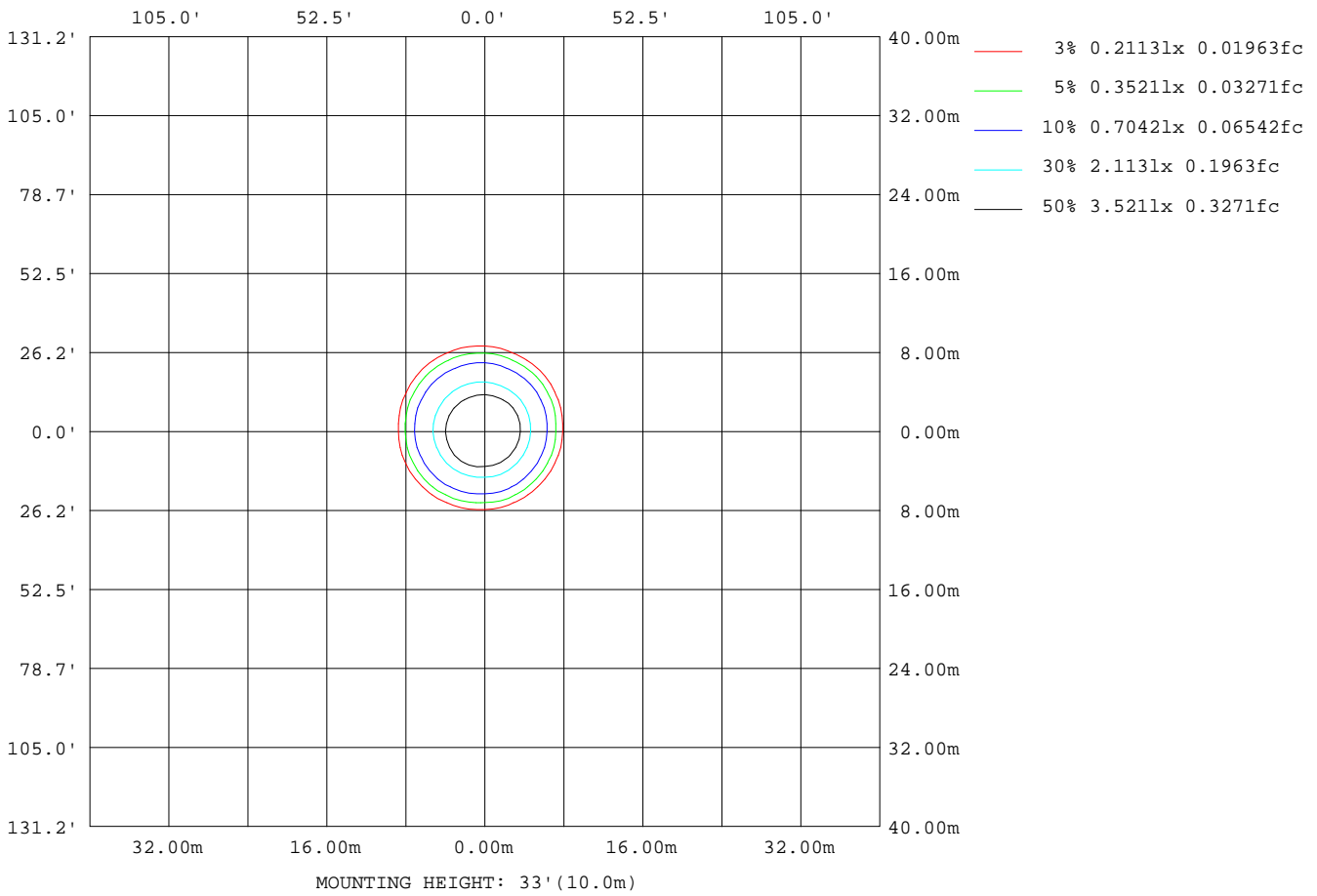
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2025-07-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
 Humidity:65.0%
 Test Distance:7.880m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:232.06V I:0.0422A P:9.3251W PF:0.9522 Freq:49.99Hz Lamp Flux:443.348x1 lm		
NAME: DL324-BKTC7C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 42mm	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2025-07-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.880m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:232.06V I:0.0422A P:9.3251W PF:0.9522 Freq:49.99Hz Lamp Flux:443.348x1 lm		
NAME: DL324-BKTC7C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 42mm	Shielding Angle:

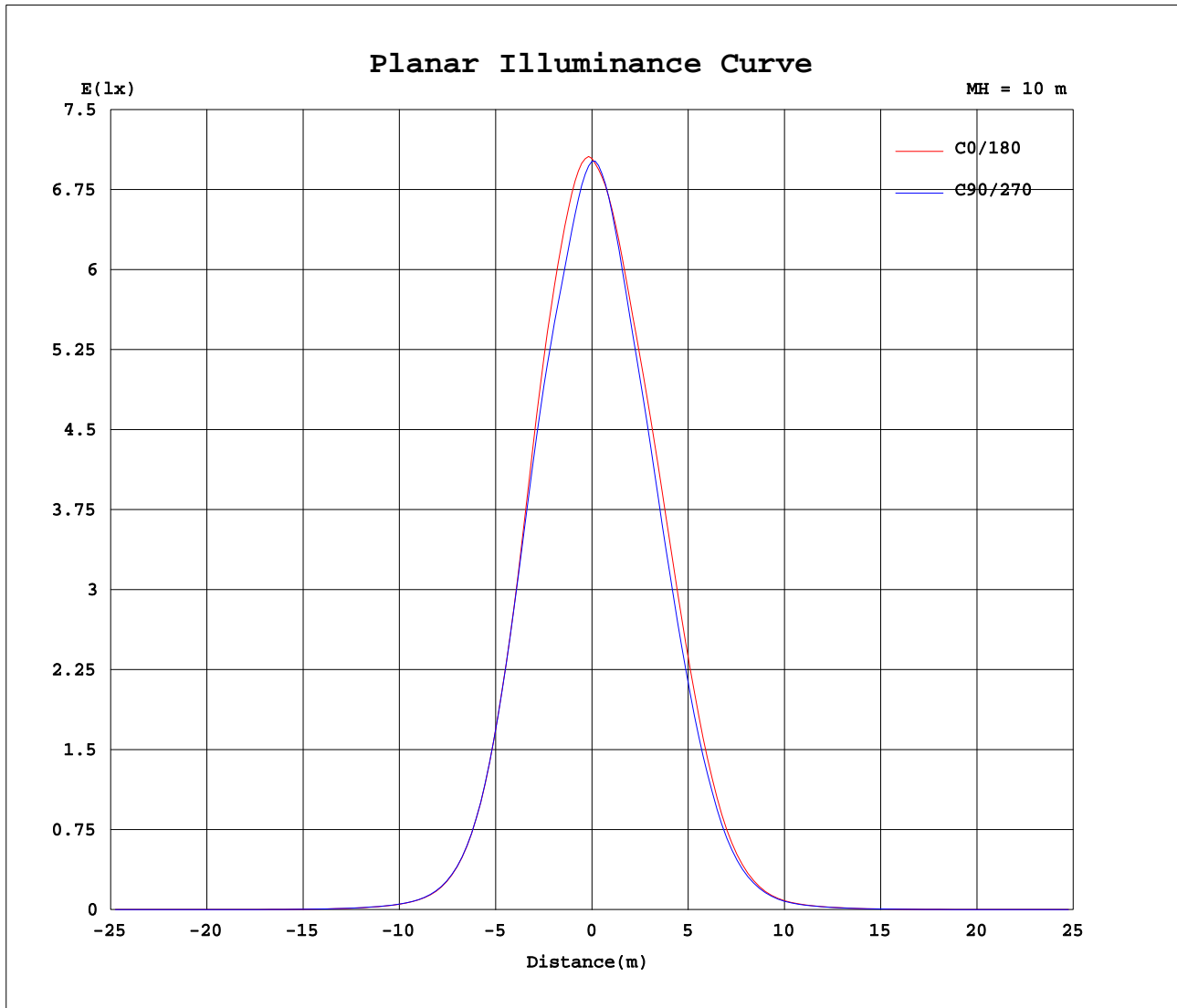
AvgL	cd/m2
L_0~180(65)av	731
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	774
L_90~270(75)av	0
L_90~270(85)av	0
L_45(65)av	823
L_45(75)av	16
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2025-07-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
 Humidity:65.0%
 Test Distance:7.880m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2025-07-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.880m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:232.06V I:0.0422A P:9.3251W PF:0.9522 Freq:49.99Hz Lamp Flux:443.348x1 lm		
NAME: DL324-BKTC7C02	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 42mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	704	703	703	702	702	703	702	702	704	703	703	702	702	703	702	702			
5	691	692	678	663	659	670	677	673	676	674	673	673	675	679	686	687			
10	633	638	622	588	594	632	641	624	620	621	618	609	606	617	645	643			
15	546	537	524	505	520	568	580	560	555	561	547	529	530	532	566	563			
20	414	403	401	404	408	439	470	468	474	473	461	443	436	431	442	431			
25	277	267	268	276	276	298	335	350	367	366	361	348	331	314	311	293			
30	155	146	146	152	155	177	212	227	248	252	251	237	222	202	193	172			
35	73.1	68.9	66.0	69.4	73.7	86.1	109	122	136	144	145	133	122	107	98.3	84.7			
40	30.9	29.3	29.1	29.6	31.8	36.8	47.0	55.5	61.1	66.6	68.3	62.4	55.8	47.3	43.7	35.1			
45	14.5	14.1	14.6	14.9	15.0	16.7	19.5	23.2	24.0	25.8	27.5	25.6	22.3	19.4	18.7	16.7			
50	7.19	6.97	7.37	7.46	7.61	8.17	9.33	10.7	11.3	11.8	12.2	11.1	10.6	9.91	9.39	8.55			
55	3.14	3.00	2.94	3.15	3.30	3.44	3.86	4.86	5.07	5.24	5.61	4.89	4.93	4.50	4.15	3.70			
60	1.05	0.91	1.04	1.12	0.99	1.10	1.18	1.47	1.99	2.00	1.82	1.71	1.73	1.64	1.46	1.13			
65	0.35	0.29	0.41	0.41	0.38	0.33	0.46	0.42	0.50	0.47	0.51	0.63	0.53	0.60	0.56	0.48			
70	0.06	0.00	0.08	0.04	0.10	0.06	0.16	0.13	0.13	0.17	0.19	0.25	0.19	0.20	0.14	0.13			
75	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.06	0.00	0.00	0.00	0.00			
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2025-07-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
 Humidity:65.0%
 Test Distance:7.880m [K=1.0000]
 Remarks: