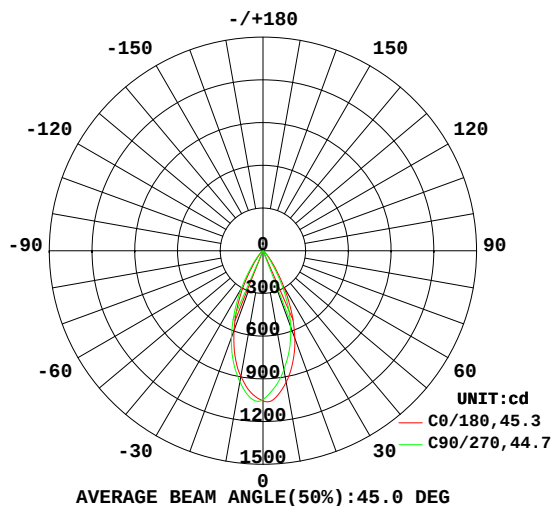


LUMINAIRE PHOTOMETRIC TEST REPORT

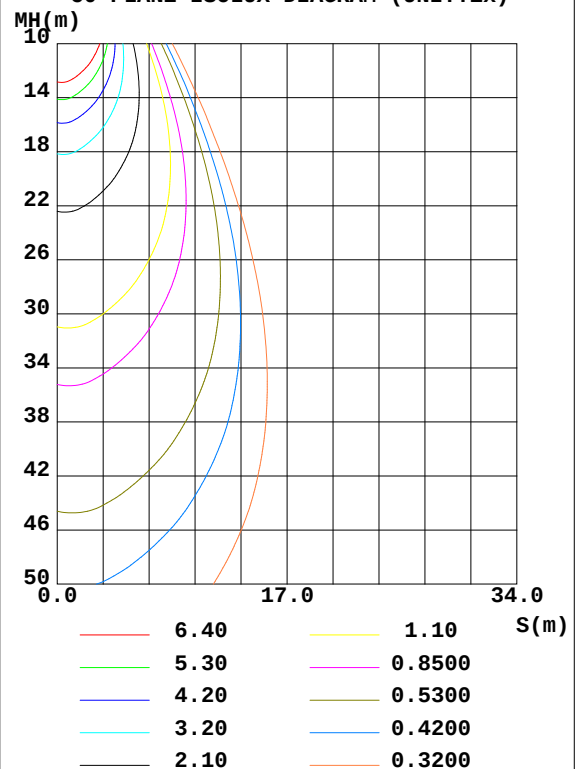
Test:U:232.06V I:0.0601A P:12.870W PF:0.9233 Freq:49.99Hz Lamp Flux:632.24x1 lm		
NAME: DLV325-BKTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 57mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 49.13 lm/W			
MODEL	5700K	I _{max} (cd)	1063	S/MH(C0/180)	0.70
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.75
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	632.24	η UP, DN(C0-180)	0.0, 48.3
NOMINAL FLUX(lm)	632.24	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 51.7
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

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-07-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

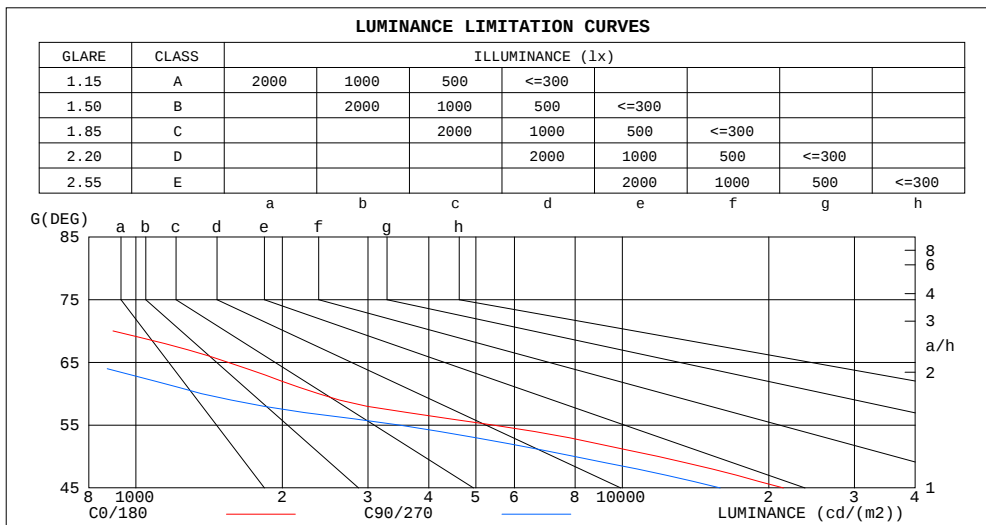
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	938.0	880.1	847.8	861.9	896.7	893.4	936.2	955.5	0- 10	92.51	92.51	14.6, 14.6
20	655.1	606.6	567.8	569.6	595.6	596.8	649.9	676.9	10- 20	212.4	304.9	48.2, 48.2
30	294.0	290.6	239.8	227.4	247.3	266.3	302.1	304.6	20- 30	200.1	505.0	79.9, 79.9
40	76.60	75.08	55.89	52.21	58.54	69.71	81.14	77.55	30- 40	91.00	596.0	94.3, 94.3
50	19.40	17.69	13.05	11.46	12.67	16.30	20.46	19.12	40- 50	28.12	624.1	98.7, 98.7
60	3.027	2.301	1.740	1.661	1.583	2.118	3.488	3.248	50- 60	6.668	630.8	99.8, 99.8
70	0.7825	0.5156	0.3316	0.3316	0.3161	0.4076	0.6463	0.8709	60- 70	1.260	632.1	100, 100
80	0.0001	0	0	0	0	0	0	0	70- 80	0.1775	632.2	100, 100
90	0	0	0	0	0	0	0	0	80- 90	0.0000	632.2	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:2025-07-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:232.06V I:0.0601A P:12.870W PF:0.9233 Freq:49.99Hz Lamp Flux:632.24x1 lm		
NAME: DLV325-BKTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 57mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	0	0
80	0	0
75	370	98
70	897	380
65	1545	777
60	2374	1364
55	5420	3477
50	11837	7961
45	21428	15895

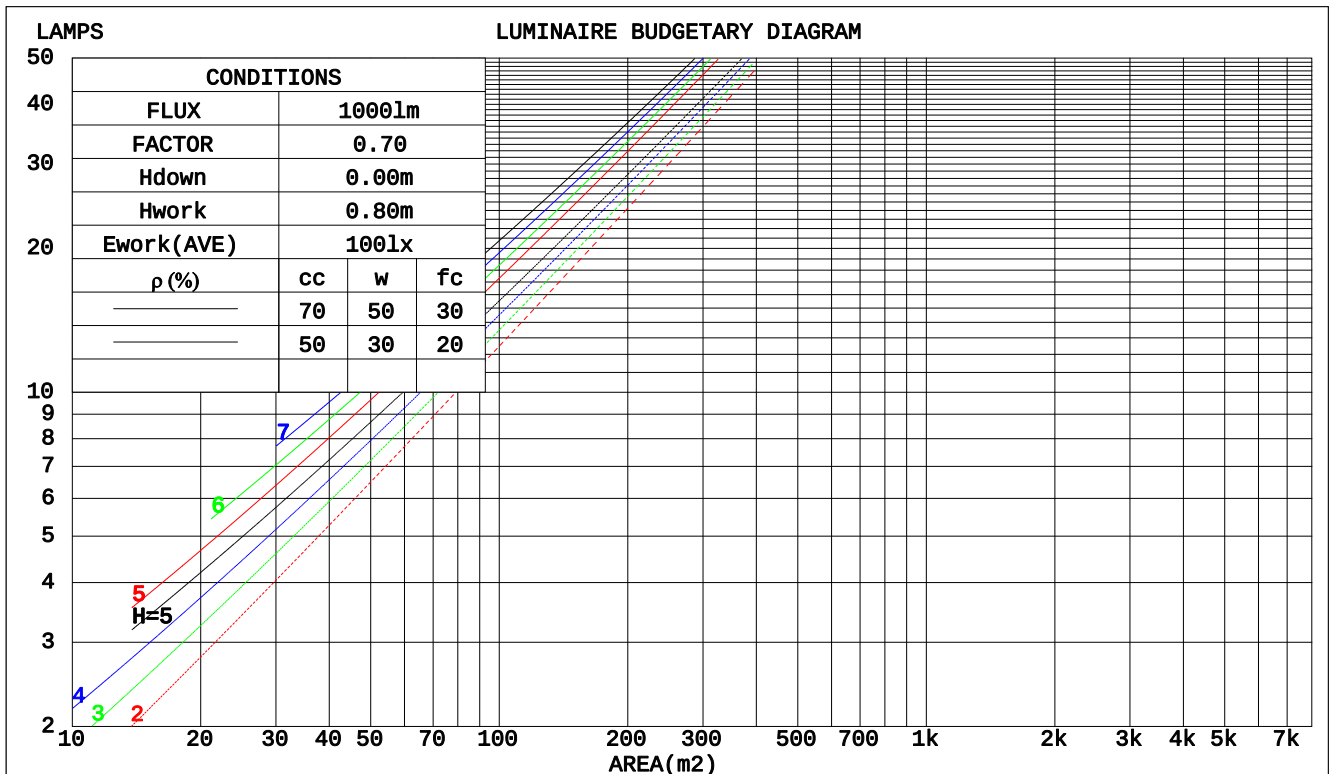
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-07-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_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:0.0601A P:12.870W PF:0.9233 Freq:49.99Hz Lamp Flux:632.24x1 lm		
NAME: DLV325-BKTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 57mm	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.03	.99	.96	.99	.97	.94	.96	.94	.92	.94	.92	.90	.89
3.0	.98	.93	.90	.96	.92	.89	.94	.90	.87	.92	.89	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.86	.83	.89	.85	.82	.87	.83	.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	.72	.80	.75	.72	.79	.75	.71	.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: 2025-07-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.880m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:232.06V I:0.0601A P:12.870W PF:0.9233 Freq:49.99Hz Lamp Flux:632.24x1 lm					
NAME: DLV325-BKTC12C02			TYPE:		WEIGHT:
SPEC.: white RA90 3000K+5700K			DIM.:		SERIAL No.:
MFR.:			SUR.: 57mm		Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.167	.095	.030	.160	.092	.029	.148	.085	.027	.136	.079	.025	.126	.073	.024	
2.0	.159	.087	.027	.154	.085	.026	.143	.080	.025	.134	.075	.023	.125	.070	.022	
3.0	.151	.081	.024	.147	.079	.024	.138	.075	.023	.130	.071	.022	.122	.067	.021	
4.0	.144	.075	.022	.140	.073	.022	.132	.070	.021	.125	.067	.020	.119	.064	.020	
5.0	.137	.070	.020	.134	.069	.020	.127	.066	.019	.121	.064	.019	.115	.061	.018	
6.0	.131	.066	.019	.128	.065	.019	.122	.063	.018	.117	.061	.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	.109	.055	.016	.105	.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	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	.037	.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:2025-07-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_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:0.0601A P:12.870W PF:0.9233 Freq:49.99Hz Lamp Flux:632.24x1 lm											
NAME: DLV325-BKTC12C02						TYPE:		WEIGHT:			
SPEC.: white RA90 3000K+5700K						DIM.:		SERIAL No.:			
MFR.:						SUR.: 57mm		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	2H	19.7	20.6	19.9	20.7	20.9	18.4	19.3	18.6	19.4	19.6
	3H	19.5	20.3	19.8	20.5	20.7	18.2	19.0	18.5	19.2	19.4
	4H	19.4	20.2	19.7	20.4	20.6	18.1	18.9	18.4	19.1	19.3
	6H	19.3	20.1	19.6	20.3	20.5	18.0	18.8	18.3	19.0	19.2
	8H	19.3	20.0	19.6	20.2	20.5	18.0	18.7	18.3	18.9	19.2
	12H	19.3	19.9	19.6	20.2	20.5	17.9	18.6	18.3	18.9	19.1
4H	2H	19.4	20.2	19.7	20.4	20.6	18.1	18.9	18.4	19.1	19.3
	3H	19.3	19.9	19.6	20.2	20.5	18.0	18.6	18.3	18.9	19.2
	4H	19.2	19.8	19.5	20.1	20.4	17.9	18.5	18.2	18.8	19.1
	6H	19.1	19.6	19.4	19.9	20.3	17.8	18.3	18.2	18.6	19.0
	8H	19.0	19.5	19.4	19.9	20.2	17.7	18.2	18.1	18.6	18.9
	12H	19.0	19.4	19.4	19.8	20.2	17.7	18.1	18.1	18.5	18.9
8H	4H	19.0	19.5	19.4	19.9	20.2	17.7	18.2	18.1	18.6	18.9
	6H	18.9	19.3	19.3	19.7	20.1	17.6	18.0	18.1	18.4	18.8
	8H	18.9	19.2	19.3	19.6	20.1	17.6	17.9	18.0	18.3	18.8
	12H	18.8	19.1	19.3	19.6	20.0	17.5	17.8	18.0	18.3	18.7
12H	4H	19.0	19.4	19.4	19.8	20.2	17.7	18.1	18.1	18.5	18.9
	6H	18.9	19.2	19.3	19.6	20.1	17.6	17.9	18.0	18.3	18.8
	8H	18.8	19.1	19.3	19.6	20.0	17.5	17.8	18.0	18.3	18.7
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 3.1 / -11.3					+ 2.6 / -12.7					
1.5H	+ 4.8 / - 8.0					+ 4.2 / - 8.5					
2.0H	+ 6.0 / -10.6					+ 5.7 / -10.4					

CIE Pub.117, 632.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.6)
Area: 0.00255 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-07-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:232.06V I:0.0601A P:12.870W PF:0.9233 Freq:49.99Hz Lamp Flux:632.24x1 lm		
NAME: DLV325-BKTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 57mm	Shielding Angle:

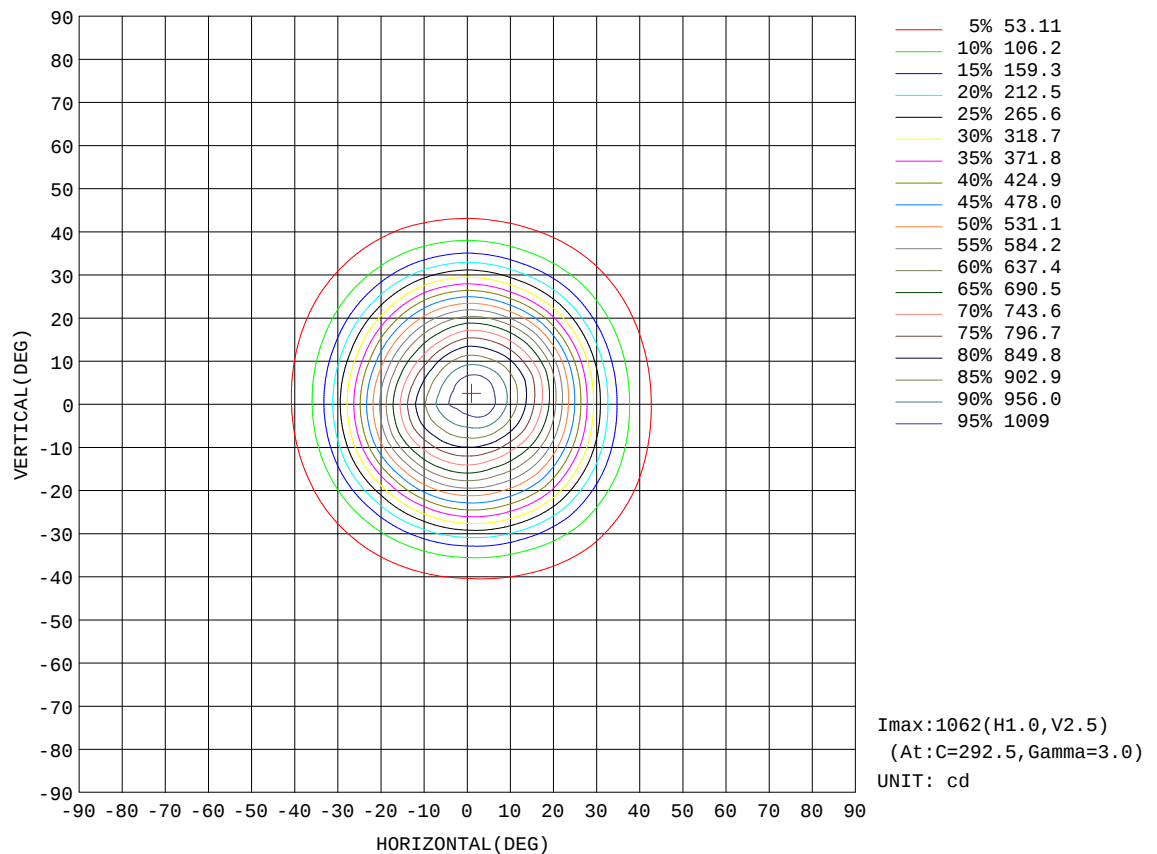
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	88	82	78	87	81	78	87	81	78	74
0.80	95	90	86	95	89	86	94	89	85	82
1.00	100	94	91	99	94	90	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	99	105	101	98	103	100	97	93
2.00	109	105	102	108	104	101	105	102	100	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	105	103	96
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:2025-07-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:232.06V I:0.0601A P:12.870W PF:0.9233 Freq:49.99Hz Lamp Flux:632.24x1 lm		
NAME: DLV325-BKTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 57mm	Shielding Angle:

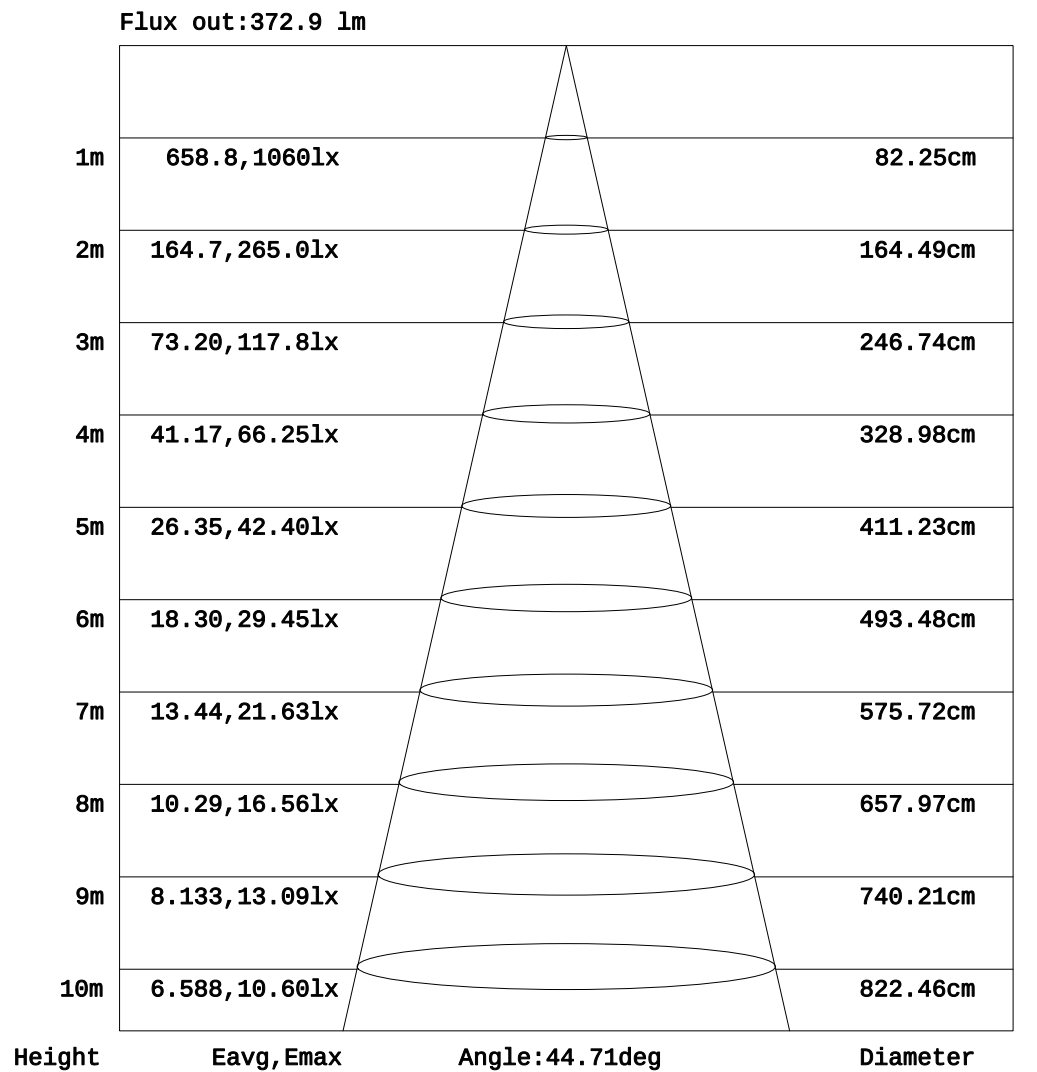


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-07-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

AAI Figure

Test:U:232.06V I:0.0601A P:12.870W PF:0.9233 Freq:49.99Hz Lamp Flux:632.24x1 lm		
NAME: DLV325-BKTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 57mm	Shielding Angle:



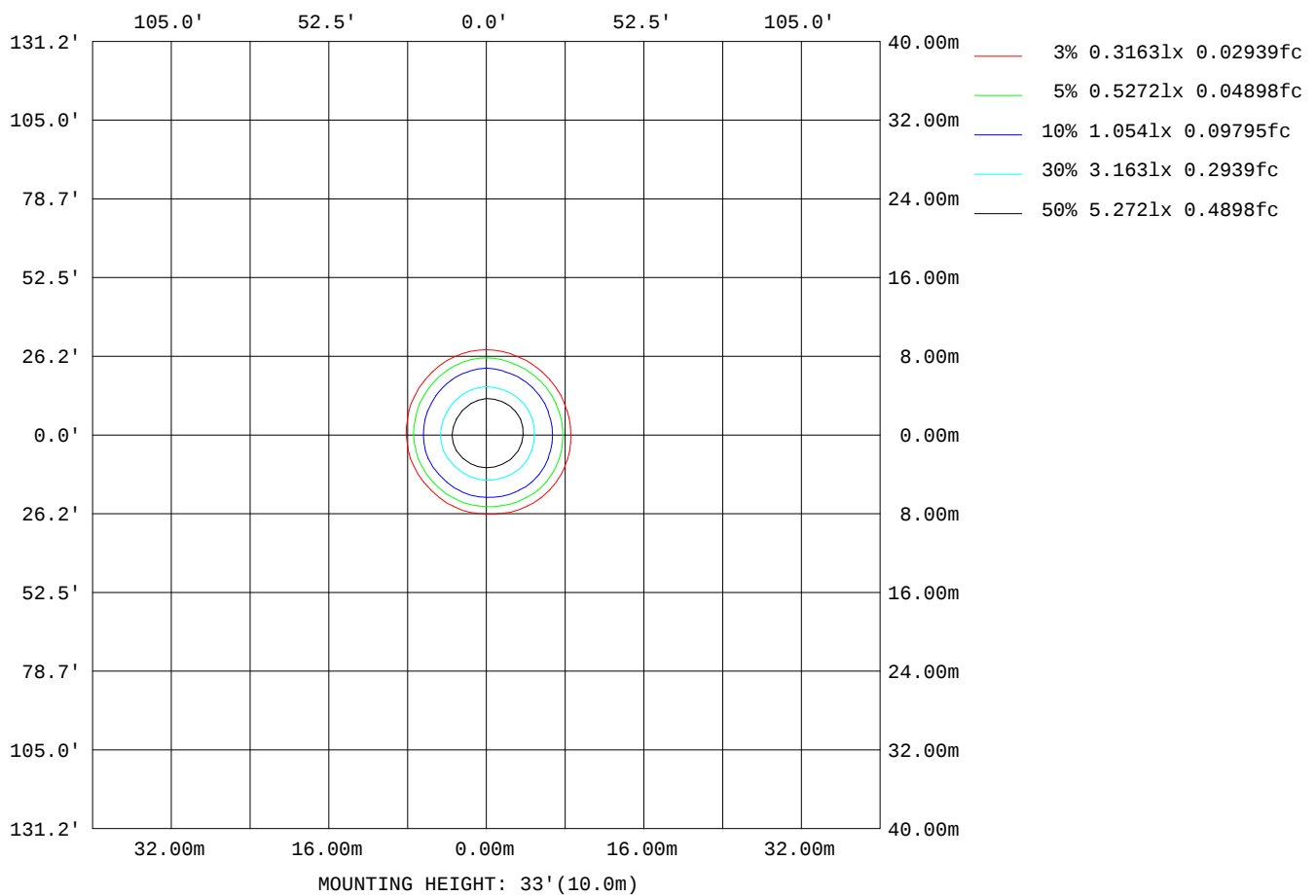
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-07-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:232.06V I:0.0601A P:12.870W PF:0.9233 Freq:49.99Hz Lamp Flux:632.24x1 lm		
NAME: DLV325-BKTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 57mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-07-21

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_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:0.0601A P:12.870W PF:0.9233 Freq:49.99Hz Lamp Flux:632.24x1 lm		
NAME: DLV325-BKTC12C02	TYPE:	WEIGHT:
SPEC.: white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 57mm	Shielding Angle:

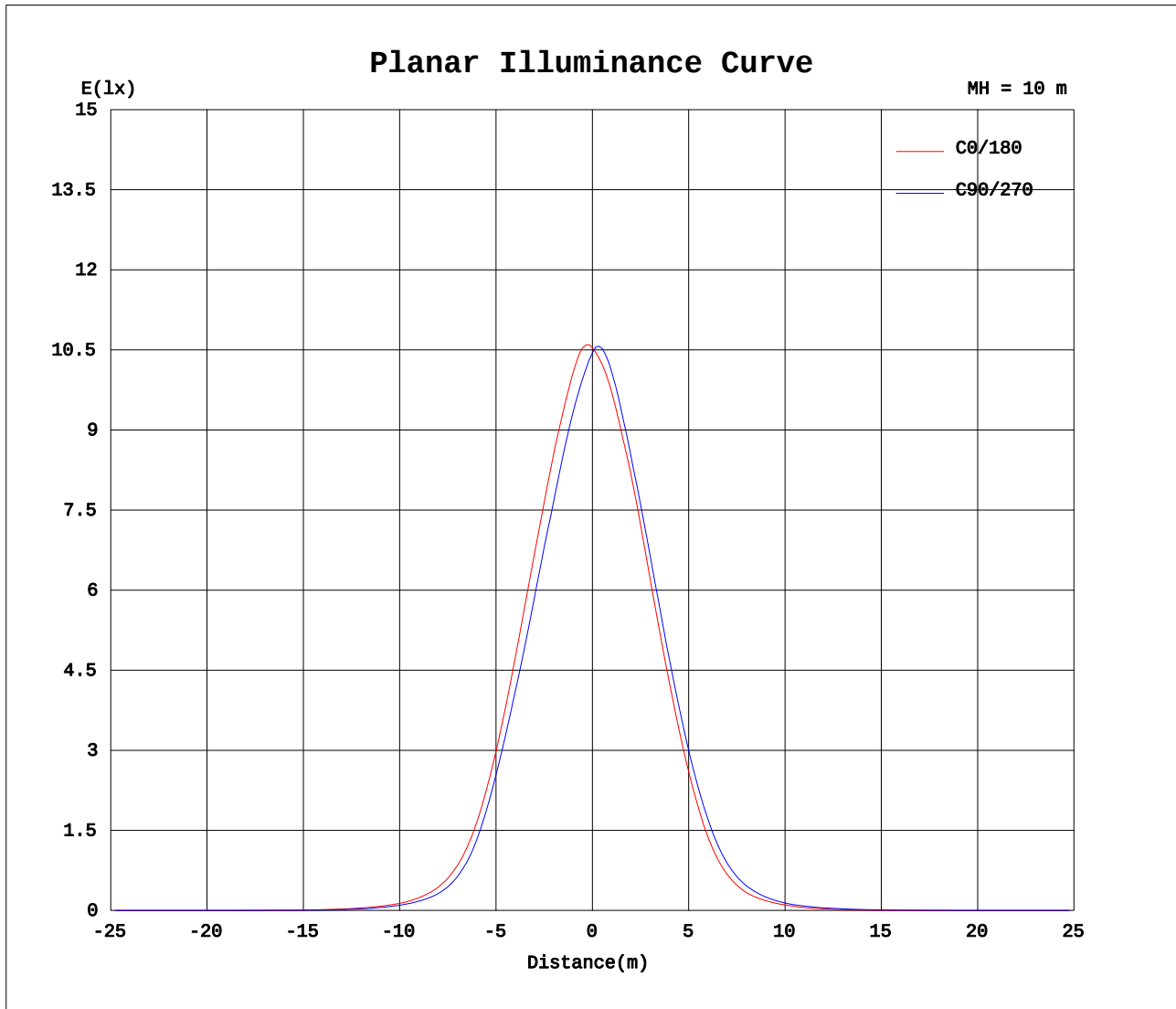
AvgL	cd/m2
L_0~180(65)av	1147
L_0~180(75)av	220
L_0~180(85)av	0
L_90~270(65)av	1070
L_90~270(75)av	170
L_90~270(85)av	0
L_45(65)av	1123
L_45(75)av	191
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2025-07-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_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: 2025-07-21

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.880m [K=1.0000]
 Remarks:

```

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

```