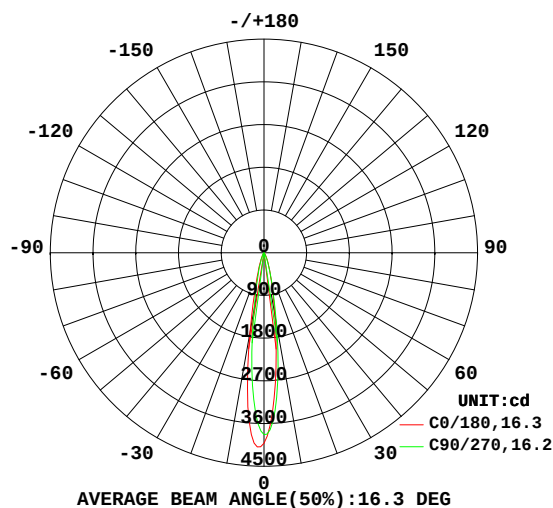


LUMINAIRE PHOTOMETRIC TEST REPORT

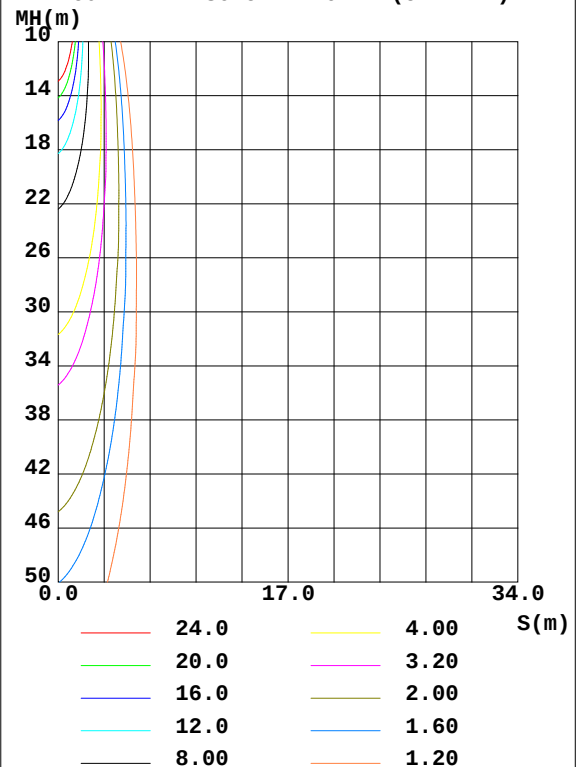
Test:U:231.90V I:0.1022A P:11.227W PF:0.4739 Freq:49.99Hz Lamp Flux:505.757x1 lm		
NAME: CD75C02C-BK4K7C01	TYPE:	WEIGHT:
SPEC.: black RA80	DIM.:	SERIAL No.:
MFR.:	SUR.: 52mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 45.05 lm/W			
MODEL	4000K	I _{max} (cd)	4094	S/MH(C0/180)	0.31
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	0.26
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	505.76	η UP, DN(C0-180)	0.0, 53.6
NOMINAL FLUX(lm)	505.757	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 46.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.00

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:2025-07-04

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:

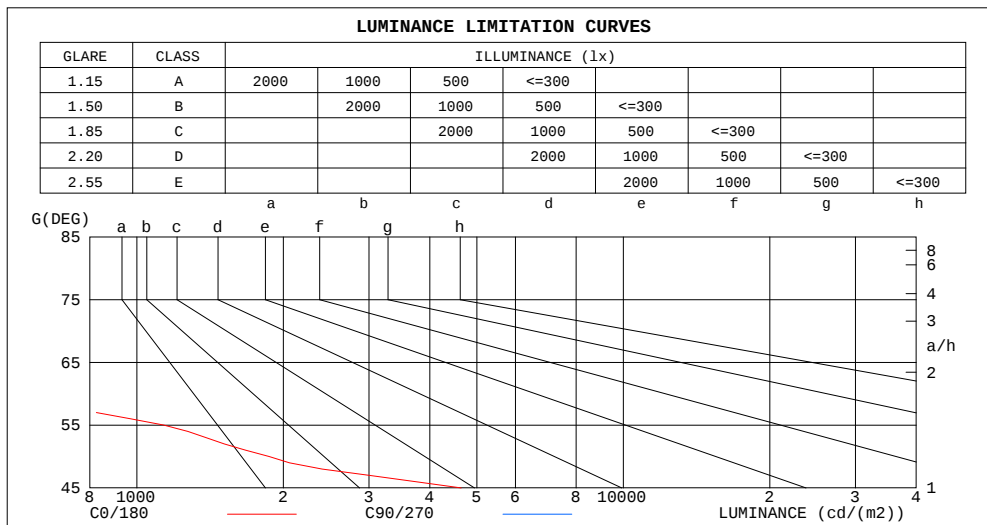
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1336	1462	1496	1942	1720	1341	1217	1080	0- 10	236.4	236.4	46.7, 46.7
20	295.2	285.7	280.3	333.9	280.6	208.0	226.4	249.9	10- 20	174.9	411.3	81.3, 81.3
30	83.90	66.00	55.15	70.77	68.23	55.71	59.18	74.99	20- 30	64.43	475.7	94.1, 94.1
40	24.36	6.741	2.680	6.737	15.70	19.54	23.29	26.03	30- 40	21.88	497.6	98.4, 98.4
50	2.544	1.453	0.9338	1.204	2.211	6.449	8.943	6.288	40- 50	6.055	503.7	99.6, 99.6
60	0.5932	0.1430	0.0230	0.2441	0.7195	1.307	1.486	1.023	50- 60	1.640	505.3	99.9, 99.9
70	0.0324	0	0	0.0000	0.0456	0.3486	0.4862	0.3208	60- 70	0.3623	505.7	100, 100
80	0	0	0	0	0	0	0.0183	0	70- 80	0.0699	505.8	100, 100
90	0	0	0	0	0	0	0	0	80- 90	0.0042	505.8	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: 2025-07-04

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:231.90V I:0.1022A P:11.227W PF:0.4739 Freq:49.99Hz Lamp Flux:505.757x1 lm		
NAME: CD75C02C-BK4K7C01	TYPE:	WEIGHT:
SPEC.: black RA80	DIM.:	SERIAL No.:
MFR.:	SUR.: 52mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	45	0
65	365	0
60	560	22
55	1135	194
50	1867	685
45	4643	782

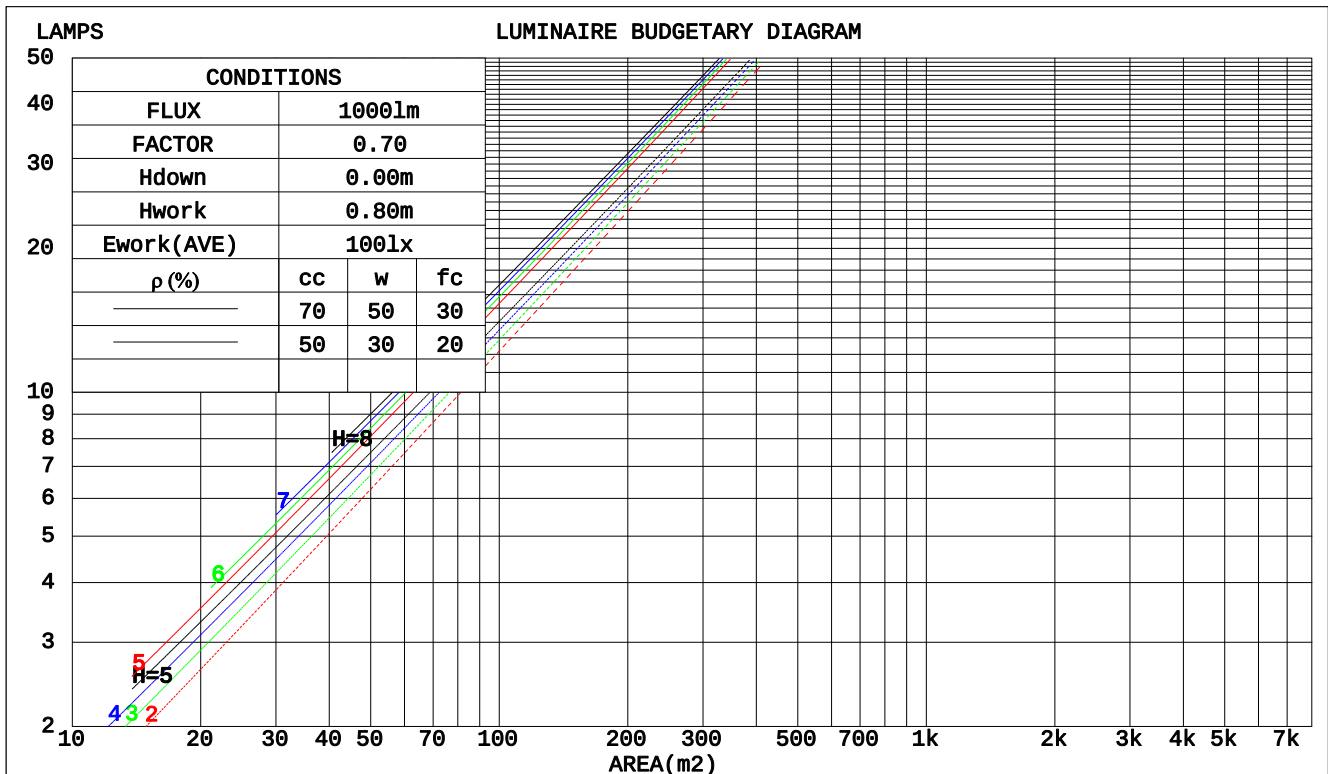
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-07-04

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:231.90V I:0.1022A P:11.227W PF:0.4739 Freq:49.99Hz Lamp Flux:505.757x1 lm		
NAME: CD75C02C-BK4K7C01	TYPE:	WEIGHT:
SPEC.: black RA80	DIM.:	SERIAL No.:
MFR.:	SUR.: 52mm	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	1.13	1.11	1.10	1.11	1.10	1.08	1.07	1.06	1.05	1.04	1.03	1.02	1.00	.99	.99	.97
2.0	1.08	1.05	1.03	1.07	1.04	1.02	1.04	1.02	.00	1.01	.99	.98	.98	.97	.96	.94
3.0	1.04	1.01	.98	1.03	.00	.97	1.00	.98	.96	.98	.96	.94	.96	.94	.93	.92
4.0	1.00	.97	.94	.99	.96	.93	.97	.95	.92	.96	.93	.91	.94	.92	.90	.89
5.0	.97	.93	.90	.96	.93	.90	.95	.92	.89	.93	.91	.89	.92	.90	.88	.87
6.0	.94	.90	.87	.93	.90	.87	.92	.89	.87	.91	.88	.86	.90	.87	.86	.85
7.0	.91	.88	.85	.91	.87	.85	.90	.87	.84	.89	.86	.84	.88	.85	.84	.83
8.0	.89	.85	.83	.89	.85	.82	.88	.84	.82	.87	.84	.82	.86	.84	.82	.81
9.0	.87	.83	.81	.86	.83	.80	.86	.82	.80	.85	.82	.80	.84	.82	.80	.79
10.0	.85	.81	.79	.84	.81	.79	.84	.81	.78	.83	.80	.78	.83	.80	.78	.77



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-07-04

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:231.90V I:0.1022A P:11.227W PF:0.4739 Freq:49.99Hz Lamp Flux:505.757x1 lm					
NAME: CD75C02C-BK4K7C01			TYPE:		WEIGHT:
SPEC.: black RA80			DIM.:		SERIAL No.:
MFR.:			SUR.: 52mm		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	.130	.074	.023	.124	.071	.022	.111	.064	.020	.100	.058	.018	.089	.052	.017	
2.0	.120	.066	.020	.115	.063	.019	.105	.058	.018	.095	.054	.017	.087	.049	.015	
3.0	.112	.059	.018	.107	.057	.017	.099	.054	.016	.091	.050	.015	.084	.046	.014	
4.0	.104	.054	.016	.101	.053	.016	.093	.050	.015	.087	.047	.014	.081	.044	.013	
5.0	.098	.050	.014	.095	.049	.014	.089	.046	.014	.083	.044	.013	.078	.042	.013	
6.0	.092	.046	.013	.090	.045	.013	.084	.043	.013	.080	.041	.012	.075	.040	.012	
7.0	.087	.043	.012	.085	.042	.012	.081	.041	.012	.076	.039	.011	.072	.038	.011	
8.0	.083	.041	.011	.081	.040	.011	.077	.039	.011	.073	.037	.011	.070	.036	.010	
9.0	.079	.038	.011	.077	.038	.011	.074	.037	.010	.071	.035	.010	.068	.034	.010	
10.0	.076	.036	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.009	

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	.168	.158	.149	.144	.135	.128	.098	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.149	.133	.119	.128	.114	.103	.088	.079	.072	.051	.046	.042	.016	.015	.014	
3.0	.134	.113	.097	.115	.098	.084	.079	.068	.059	.046	.040	.035	.015	.013	.011	
4.0	.121	.098	.080	.104	.084	.069	.071	.059	.049	.041	.034	.029	.013	.011	.010	
5.0	.110	.085	.067	.095	.074	.058	.065	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.101	.075	.057	.087	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.093	.067	.048	.080	.058	.042	.055	.041	.030	.032	.024	.018	.010	.008	.006	
8.0	.087	.060	.042	.075	.052	.036	.052	.037	.026	.030	.022	.015	.010	.007	.005	
9.0	.081	.054	.036	.070	.047	.032	.048	.033	.023	.028	.020	.013	.009	.006	.004	
10.0	.076	.049	.032	.065	.043	.028	.045	.030	.020	.026	.018	.012	.009	.006	.004	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-07-04

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:231.90V I:0.1022A P:11.227W PF:0.4739 Freq:49.99Hz Lamp Flux:505.757x1 lm											
NAME: CD75C02C-BK4K7C01					TYPE:			WEIGHT:			
SPEC.: black RA80					DIM.:			SERIAL No.:			
MFR.:					SUR.: 52mm			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		11.8	12.4	12.0	12.6	12.7	6.6	7.2	6.8	7.4	7.5
	3H	11.7	12.2	11.9	12.4	12.6	6.5	7.0	6.7	7.2	7.4
	4H	11.6	12.1	11.8	12.3	12.5	6.4	6.9	6.7	7.1	7.4
	6H	11.5	12.0	11.8	12.3	12.5	6.3	6.8	6.6	7.1	7.3
	8H	11.5	12.0	11.8	12.2	12.5	6.3	6.8	6.6	7.0	7.3
	12H	11.4	11.9	11.7	12.2	12.4	6.2	6.7	6.5	7.0	7.2
4H	2H	11.6	12.1	11.8	12.3	12.5	6.4	7.0	6.7	7.2	7.4
	3H	11.4	11.9	11.7	12.2	12.4	6.2	6.7	6.5	7.0	7.2
	4H	11.3	11.8	11.7	12.1	12.4	6.1	6.6	6.5	6.9	7.2
	6H	11.2	11.6	11.6	11.9	12.3	6.0	6.4	6.4	6.8	7.1
	8H	11.2	11.5	11.6	11.9	12.2	6.0	6.3	6.4	6.7	7.1
	12H	11.1	11.4	11.5	11.8	12.2	5.9	6.3	6.3	6.6	7.0
8H	4H	11.2	11.5	11.6	11.9	12.2	6.0	6.3	6.4	6.7	7.1
	6H	11.1	11.4	11.5	11.7	12.2	5.9	6.2	6.3	6.6	7.0
	8H	11.0	11.3	11.4	11.7	12.1	5.8	6.1	6.2	6.5	6.9
	12H	10.9	11.2	11.4	11.6	12.1	5.7	6.0	6.2	6.4	6.9
12H	4H	11.1	11.4	11.5	11.8	12.2	5.9	6.3	6.3	6.6	7.0
	6H	11.0	11.3	11.4	11.7	12.1	5.8	6.1	6.2	6.5	6.9
	8H	10.9	11.2	11.4	11.6	12.1	5.7	6.0	6.2	6.4	6.9
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 4.9 / -16.4					+ 3.6 / -21.4					
1.5H	+ 7.4 / -14.1					+ 5.5 / - 9.8					
2.0H	+ 8.3 / -17.6					+ 4.6 / -35.0					

CIE Pub.117, 505.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.4)
Area: 0.00212 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-07-04

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:231.90V I:0.1022A P:11.227W PF:0.4739 Freq:49.99Hz Lamp Flux:505.757x1 lm		
NAME: CD75C02C-BK4K7C01	TYPE:	WEIGHT:
SPEC.: black RA80	DIM.:	SERIAL No.:
MFR.:	SUR.: 52mm	Shielding Angle:

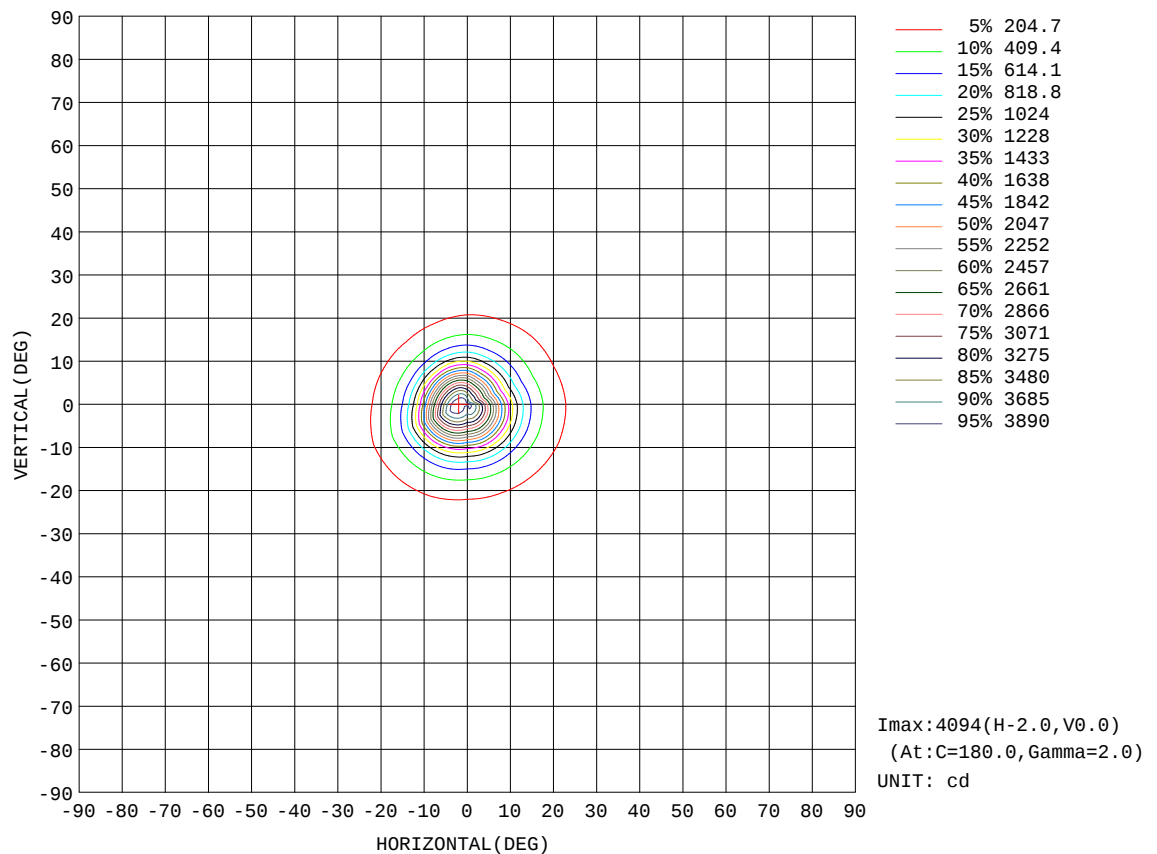
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	81	90	85	81	89	84	81	78
0.80	98	92	89	97	92	89	96	91	88	85
1.00	101	96	93	101	96	93	99	96	92	89
1.25	105	100	97	104	100	97	102	99	96	92
1.50	107	103	100	106	102	100	104	101	99	94
2.00	110	106	103	108	105	102	106	103	101	96
2.50	111	108	105	110	107	104	107	104	102	97
3.00	113	109	107	111	108	106	108	105	104	97
4.00	114	112	110	112	110	109	109	107	106	99
5.00	116	114	112	114	112	110	110	108	107	100
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:2025-07-04

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:

ISOCANDELA DIAGRAM

Test:U:231.90V I:0.1022A P:11.227W PF:0.4739 Freq:49.99Hz Lamp Flux:505.757x1 lm		
NAME: CD75C02C-BK4K7C01	TYPE:	WEIGHT:
SPEC.: black RA80	DIM.:	SERIAL No.:
MFR.:	SUR.: 52mm	Shielding Angle:

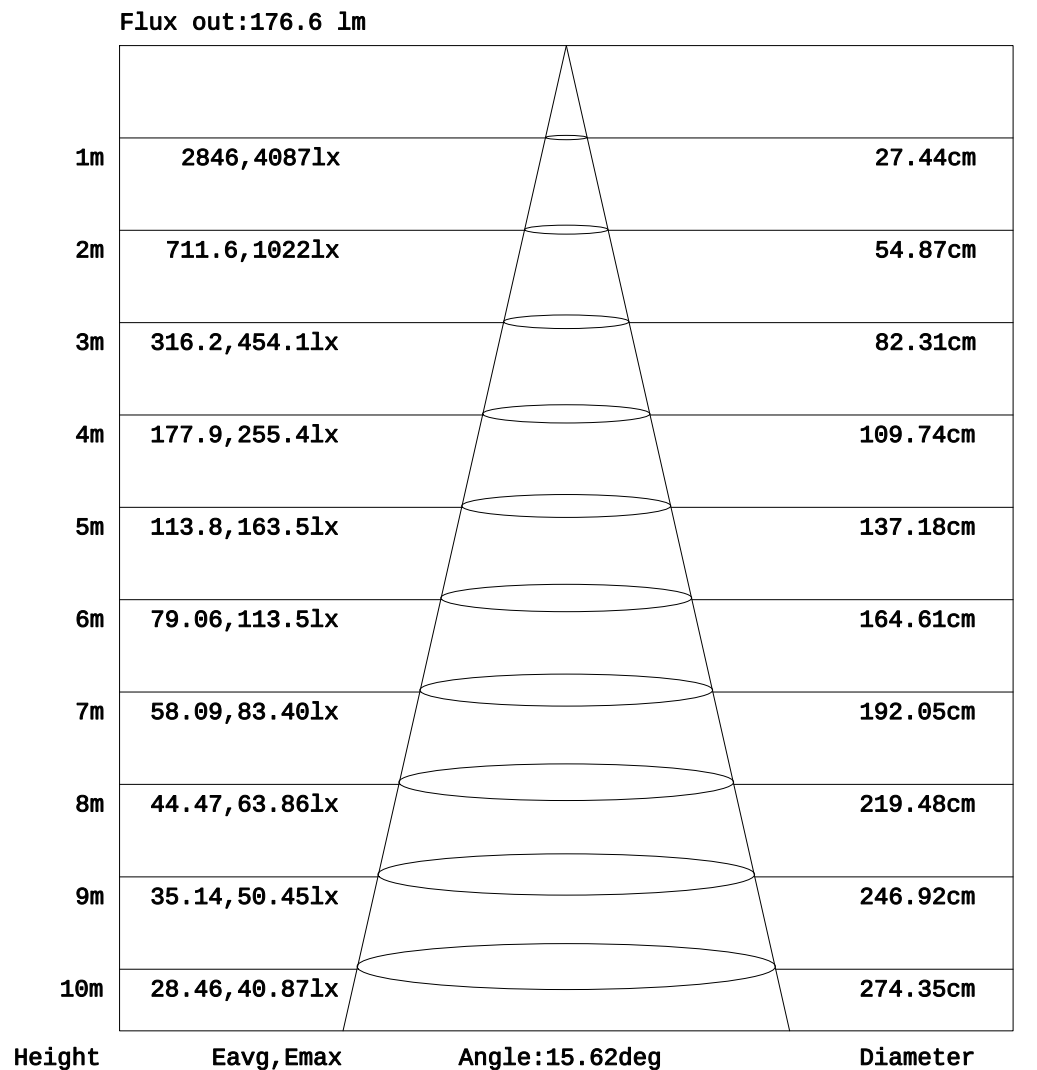


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-07-04

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:231.90V I:0.1022A P:11.227W PF:0.4739 Freq:49.99Hz Lamp Flux:505.757x1 lm		
NAME: CD75C02C-BK4K7C01	TYPE:	WEIGHT:
SPEC.: black RA80	DIM.:	SERIAL No.:
MFR.:	SUR.: 52mm	Shielding Angle:



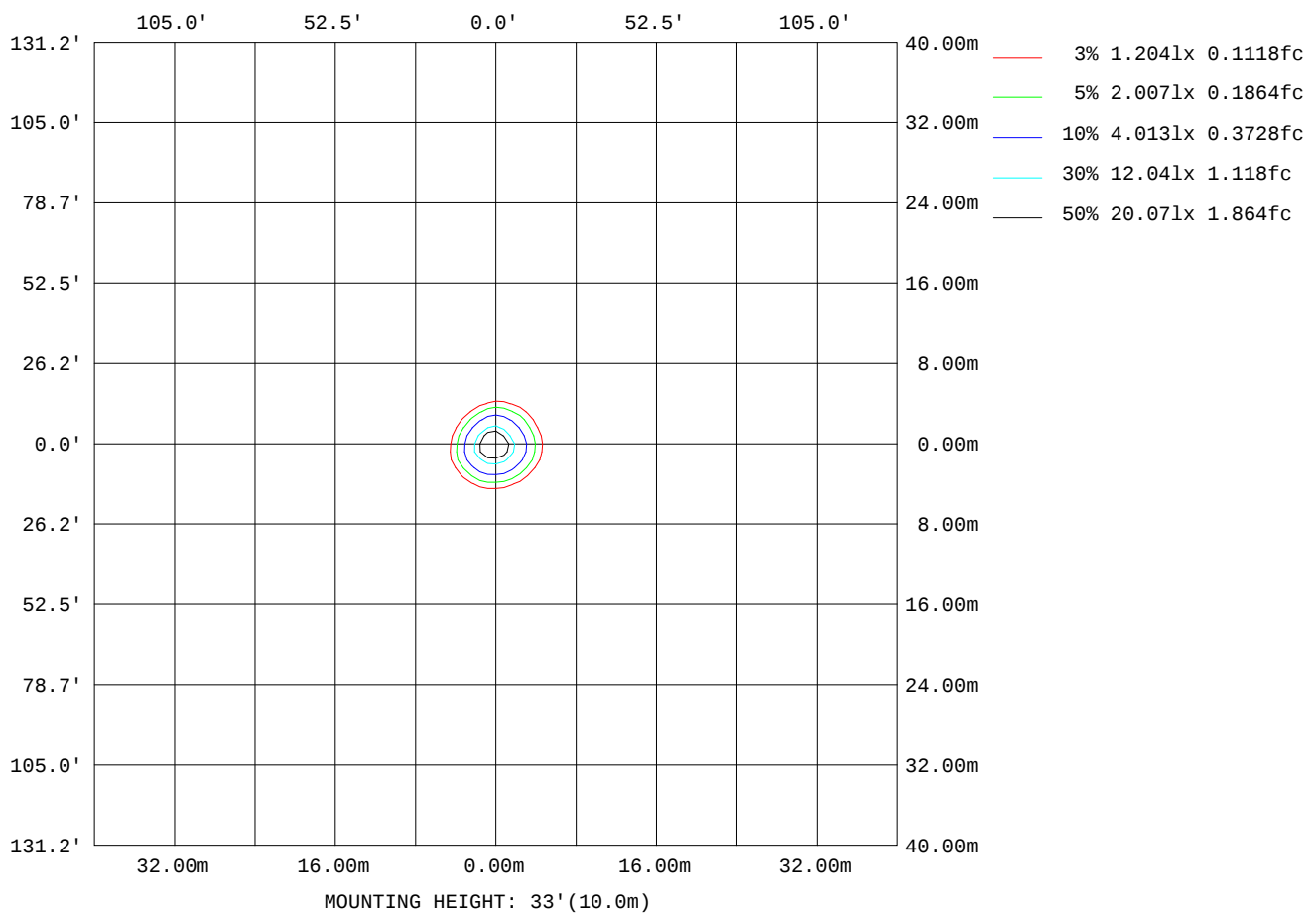
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-07-04

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:231.90V I:0.1022A P:11.227W PF:0.4739 Freq:49.99Hz Lamp Flux:505.757x1 lm		
NAME: CD75C02C-BK4K7C01	TYPE:	WEIGHT:
SPEC.: black RA80	DIM.:	SERIAL No.:
MFR.:	SUR.: 52mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-07-04

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:231.90V I:0.1022A P:11.227W PF:0.4739 Freq:49.99Hz Lamp Flux:505.757x1 lm		
NAME: CD75C02C-BK4K7C01	TYPE:	WEIGHT:
SPEC.: black RA80	DIM.:	SERIAL No.:
MFR.:	SUR.: 52mm	Shielding Angle:

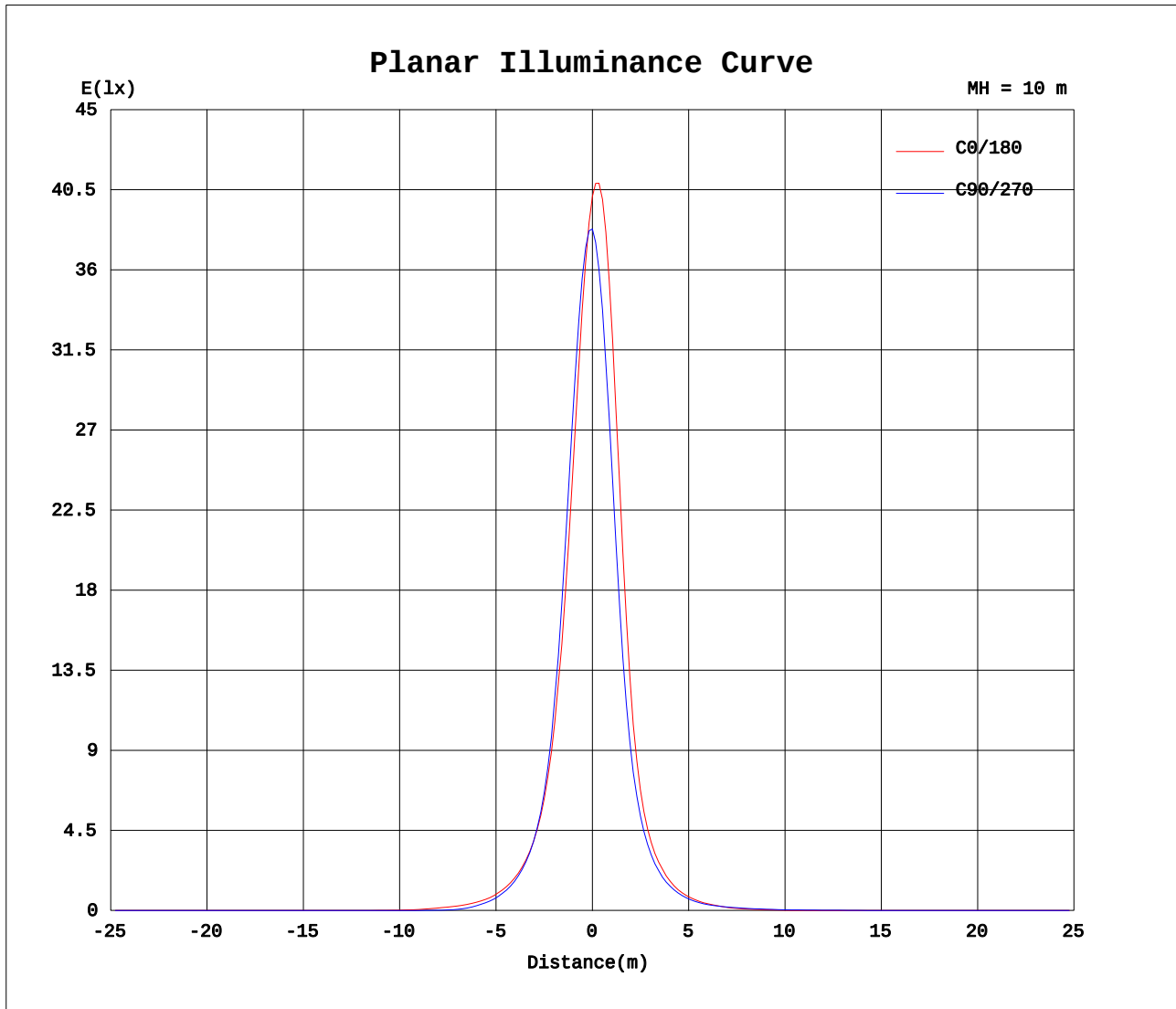
AvgL	cd/m2
L_0~180(65)av	364
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	451
L_90~270(75)av	196
L_90~270(85)av	0
L_45(65)av	355
L_45(75)av	71
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2025-07-04

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: 2025-07-04

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:

```