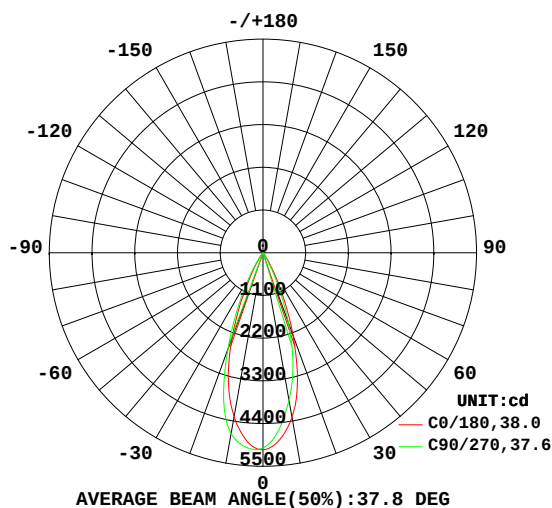


LUMINAIRE PHOTOMETRIC TEST REPORT

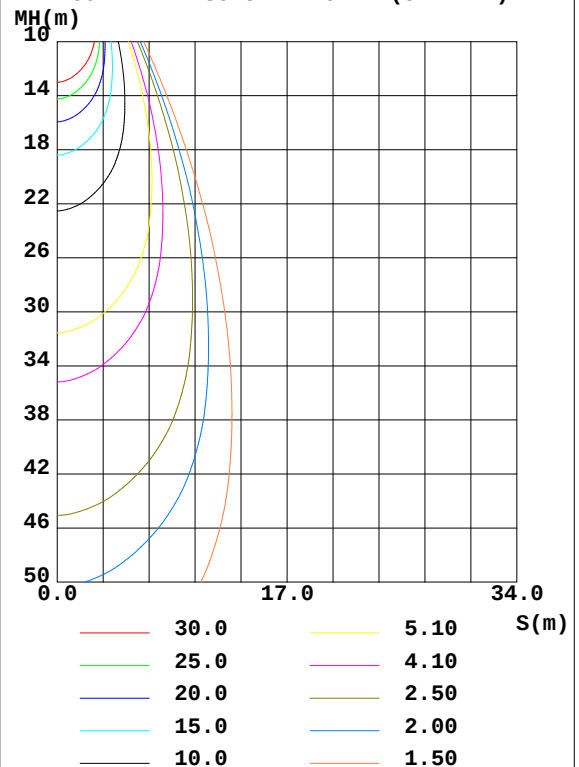
Test:U:230.33V I:0.1314A P:29.558W PF:0.9765 Freq:49.99Hz Lamp Flux:2073.47x1 lm		
NAME: DL694005-3K BK	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 395*30mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.15 lm/W			
MODEL	3535-1-3W 3000K	I _{max} (cd)	5076	S/MH(C0/180)	0.60
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	0.64
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	2073.5	η UP, DN(C0-180)	0.0, 45.0
NOMINAL FLUX(lm)	2073.47	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 55.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	0.60

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: 2025-03-27

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:

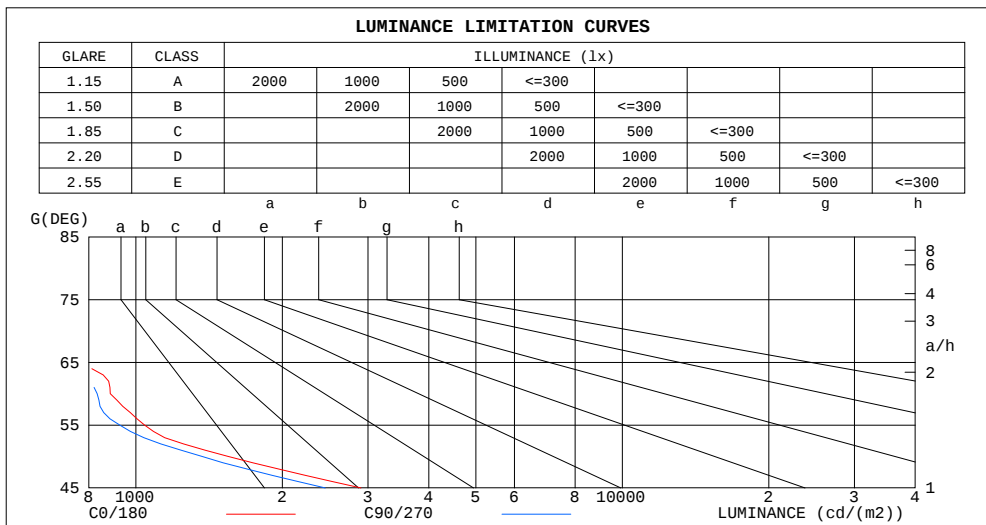
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4301	3997	3862	3919	4291	4574	4729	4581	0- 10	442.4	442.4	21.3, 21.3
20	2265	2014	1917	2006	2335	2535	2650	2574	10- 20	927.2	1370	66.1, 66.1
30	461.2	318.9	295.1	350.1	468.7	547.7	641.4	628.3	20- 30	556.9	1927	92.9, 92.9
40	52.83	47.83	43.47	51.41	51.24	62.60	72.78	84.40	30- 40	110.7	2037	98.3, 98.3
50	11.78	14.32	10.42	15.86	11.62	18.20	14.60	24.93	40- 50	23.78	2061	99.4, 99.4
60	5.249	6.971	4.931	6.788	4.751	8.144	6.947	9.637	50- 60	8.338	2069	99.8, 99.8
70	0.0185	1.258	0.0184	1.003	0	2.602	0	3.484	60- 70	4.064	2073	100, 100
80	0.0046	0	0.0001	0.0046	0	0	0	0	70- 80	0.0628	2073	100, 100
90	0	0	0	0	0	0	0	0	80- 90	0.0001	2073	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:2025-03-27

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:230.33V I:0.1314A P:29.558W PF:0.9765 Freq:49.99Hz Lamp Flux:2073.47x1 lm		
NAME: DL694005-3K BK	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 395*30mm	Shielding Angle:



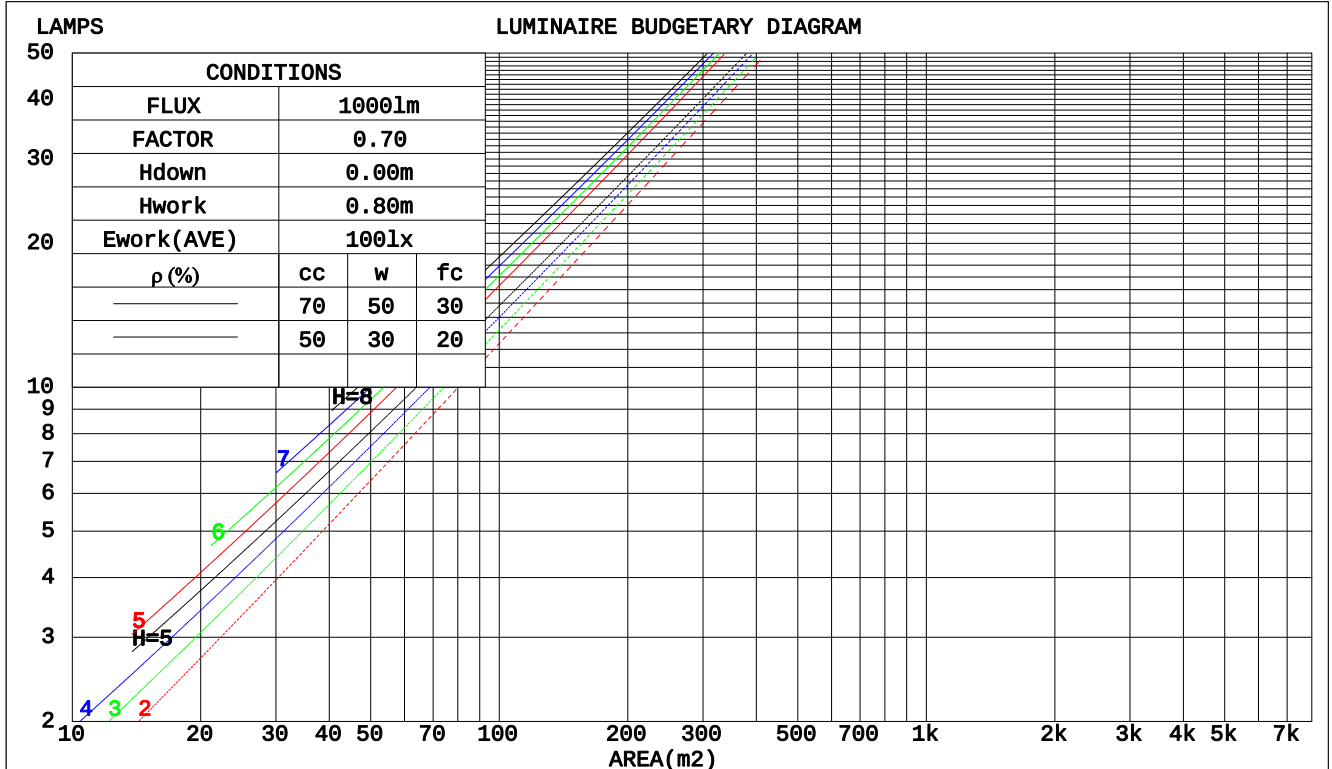
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-03-27

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:230.33V I:0.1314A P:29.558W PF:0.9765 Freq:49.99Hz Lamp Flux:2073.47x1 lm		
NAME: DL694005-3K BK	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 395*30mm	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	Coefficients of Utilization(CU)															
	RCR:Room Cavity Ratio															
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	1.12	1.10	1.08	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.06	1.03	1.00	1.04	1.01	.99	1.01	.99	.97	.98	.96	.95	.96	.94	.93	.91
3.0	1.01	.97	.94	.99	.96	.93	.97	.94	.91	.95	.92	.90	.92	.90	.89	.87
4.0	.96	.92	.88	.95	.91	.88	.93	.89	.87	.91	.88	.86	.89	.87	.85	.83
5.0	.92	.87	.84	.91	.86	.83	.89	.85	.82	.88	.84	.82	.86	.83	.81	.80
6.0	.88	.83	.80	.87	.83	.79	.86	.82	.79	.84	.81	.78	.83	.80	.78	.77
7.0	.84	.79	.76	.83	.79	.76	.82	.78	.75	.81	.78	.75	.80	.77	.75	.73
8.0	.81	.76	.73	.80	.76	.73	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71
9.0	.78	.73	.70	.77	.73	.70	.76	.72	.69	.76	.72	.69	.75	.71	.69	.68
10.0	.75	.70	.67	.74	.70	.67	.74	.70	.67	.73	.69	.67	.72	.69	.66	.65



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-03-27

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:230.33V I:0.1314A P:29.558W PF:0.9765 Freq:49.99Hz Lamp Flux:2073.47x1 lm					
NAME: DL694005-3K BK			TYPE:		WEIGHT:
SPEC.: black RA90			DIM.:		SERIAL No.:
MFR.:			SUR.: 395*30mm		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	.150	.085	.027	.143	.082	.026	.131	.075	.024	.120	.069	.022	.109	.063	.020	
2.0	.141	.077	.024	.135	.075	.023	.125	.069	.022	.115	.065	.020	.107	.060	.019	
3.0	.133	.071	.021	.128	.068	.021	.119	.065	.020	.111	.061	.019	.104	.057	.018	
4.0	.125	.065	.019	.121	.063	.019	.114	.060	.018	.107	.057	.017	.101	.055	.017	
5.0	.119	.061	.018	.115	.059	.017	.109	.057	.017	.103	.054	.016	.098	.052	.016	
6.0	.113	.057	.016	.110	.056	.016	.105	.054	.016	.099	.052	.015	.095	.050	.015	
7.0	.108	.053	.015	.105	.052	.015	.101	.051	.015	.096	.049	.014	.092	.048	.014	
8.0	.103	.050	.014	.101	.050	.014	.097	.048	.014	.093	.047	.014	.089	.046	.013	
9.0	.099	.048	.013	.097	.047	.013	.093	.046	.013	.090	.045	.013	.086	.044	.013	
10.0	.095	.046	.013	.093	.045	.013	.090	.044	.012	.087	.043	.012	.084	.042	.012	

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	.169	.158	.147	.145	.135	.127	.099	.093	.087	.057	.054	.051	.018	.017	.016	
2.0	.152	.133	.116	.130	.114	.101	.089	.079	.070	.051	.046	.041	.017	.015	.013	
3.0	.138	.113	.094	.118	.098	.081	.081	.068	.057	.047	.040	.034	.015	.013	.011	
4.0	.126	.098	.077	.108	.085	.067	.075	.059	.047	.043	.035	.028	.014	.011	.009	
5.0	.116	.086	.064	.100	.075	.055	.069	.052	.039	.040	.031	.023	.013	.010	.008	
6.0	.108	.076	.054	.093	.066	.047	.064	.046	.033	.037	.027	.020	.012	.009	.006	
7.0	.101	.068	.046	.087	.059	.040	.060	.042	.028	.035	.025	.017	.011	.008	.006	
8.0	.095	.062	.039	.082	.054	.034	.057	.038	.024	.033	.022	.014	.011	.007	.005	
9.0	.090	.056	.034	.077	.049	.030	.054	.034	.021	.031	.020	.013	.010	.007	.004	
10.0	.085	.052	.030	.073	.045	.026	.051	.032	.018	.030	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-03-27

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:230.33V I:0.1314A P:29.558W PF:0.9765 Freq:49.99Hz Lamp Flux:2073.47x1 lm											
NAME: DL694005-3K BK					TYPE:			WEIGHT:			
SPEC.: black RA90					DIM.:			SERIAL No.:			
MFR.:					SUR.: 395*30mm			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	3H	5.3	6.1	5.6	6.3	6.4	3.6	4.3	3.8	4.5	4.6
	4H	5.2	5.9	5.5	6.1	6.3	3.4	4.1	3.7	4.3	4.5
	6H	5.2	5.8	5.4	6.0	6.2	3.4	4.0	3.6	4.2	4.4
	8H	5.1	5.7	5.4	5.9	6.2	3.3	3.9	3.6	4.1	4.4
	8H	5.0	5.6	5.3	5.9	6.1	3.2	3.8	3.5	4.1	4.3
	12H	5.0	5.5	5.3	5.8	6.1	3.2	3.8	3.5	4.0	4.3
4H	2H	5.2	5.9	5.5	6.1	6.3	3.5	4.2	3.8	4.4	4.6
	3H	5.1	5.7	5.4	5.9	6.2	3.3	3.9	3.7	4.2	4.5
	4H	5.0	5.5	5.3	5.8	6.1	3.3	3.8	3.6	4.1	4.4
	6H	4.9	5.3	5.3	5.7	6.0	3.2	3.6	3.5	3.9	4.3
	8H	4.8	5.3	5.2	5.6	6.0	3.1	3.5	3.5	3.9	4.2
	12H	4.8	5.2	5.2	5.5	5.9	3.0	3.4	3.5	3.8	4.2
8H	4H	4.8	5.3	5.2	5.6	6.0	3.1	3.5	3.5	3.9	4.2
	6H	4.7	5.1	5.1	5.5	5.9	3.0	3.3	3.4	3.7	4.1
	8H	4.7	5.0	5.1	5.4	5.8	2.9	3.2	3.4	3.7	4.1
	12H	4.6	4.9	5.1	5.3	5.8	2.9	3.1	3.3	3.6	4.1
12H	4H	4.8	5.2	5.2	5.5	5.9	3.0	3.4	3.5	3.8	4.2
	6H	4.7	5.0	5.1	5.4	5.8	2.9	3.2	3.4	3.7	4.1
	8H	4.6	4.9	5.1	5.3	5.8	2.9	3.1	3.3	3.6	4.1
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 3.4 / - 6.0					+ 2.6 / - 5.6				
1.5H		+ 5.4 / - 4.8					+ 4.6 / - 4.3				
2.0H		+ 3.8 / - 2.7					+ 3.2 / - 2.7				

CIE Pub.117, 2073 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.5)
Area: 0.01185 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-03-27

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:230.33V I:0.1314A P:29.558W PF:0.9765 Freq:49.99Hz Lamp Flux:2073.47x1 lm		
NAME: DL694005-3KBK	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 395*30mm	Shielding Angle:

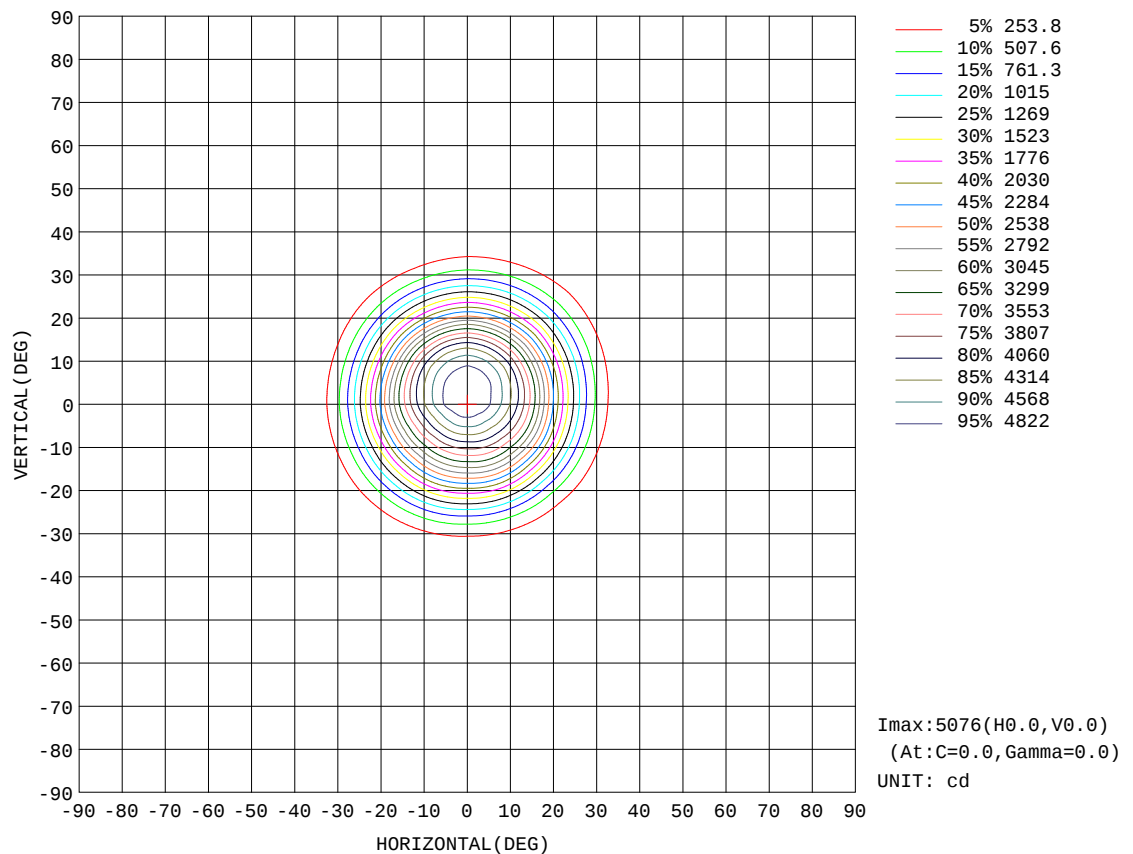
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	90	85	81	90	85	81	89	84	81	78
0.80	97	92	89	97	92	89	96	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	106	104	107	104	102	96
3.00	113	109	107	111	108	106	107	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:2025-03-27

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:230.33V I:0.1314A P:29.558W PF:0.9765 Freq:49.99Hz Lamp Flux:2073.47x1 lm		
NAME: DL694005-3K BK	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 395*30mm	Shielding Angle:

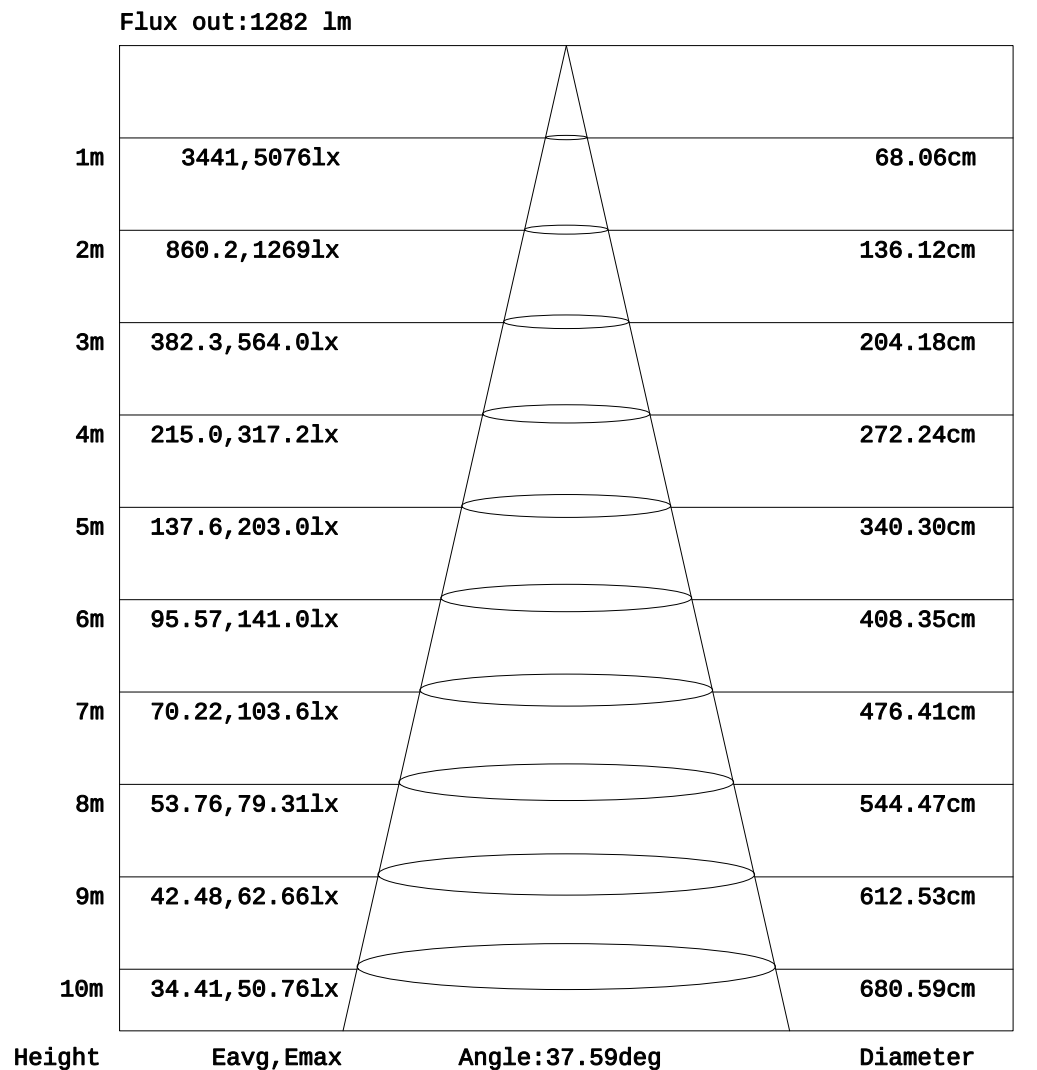


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-03-27

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:230.33V I:0.1314A P:29.558W PF:0.9765 Freq:49.99Hz Lamp Flux:2073.47x1 lm		
NAME: DL694005-3KBK	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 395*30mm	Shielding Angle:



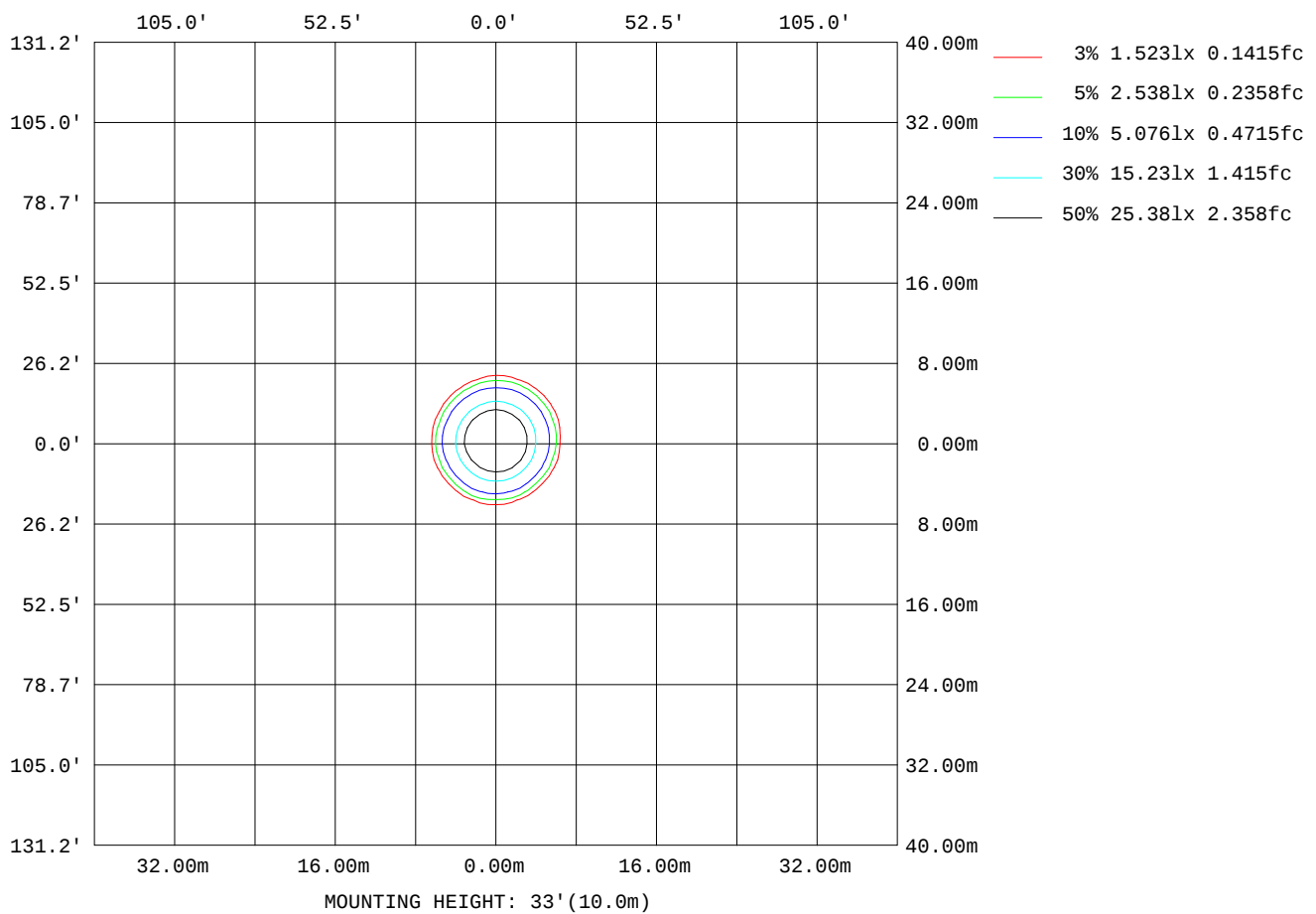
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2025-03-27

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:230.33V I:0.1314A P:29.558W PF:0.9765 Freq:49.99Hz Lamp Flux:2073.47x1 lm		
NAME: DL694005-3KBBK	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 395*30mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-03-27

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:230.33V I:0.1314A P:29.558W PF:0.9765 Freq:49.99Hz Lamp Flux:2073.47x1 lm		
NAME: DL694005-3K BK	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 395*30mm	Shielding Angle:

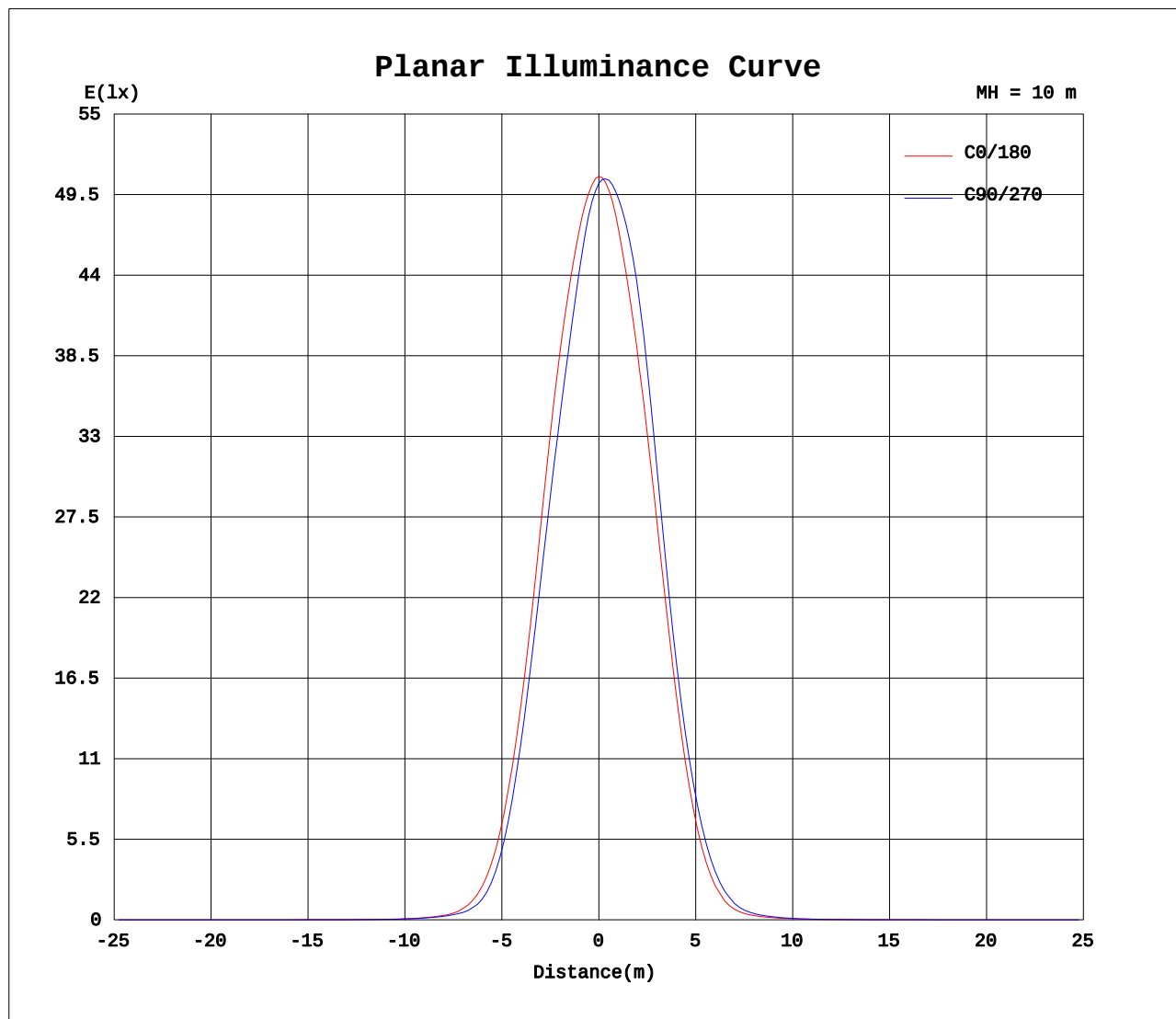
AvgL	cd/m2
L_0~180(65)av	673
L_0~180(75)av	2
L_0~180(85)av	0
L_90~270(65)av	678
L_90~270(75)av	2
L_90~270(85)av	0
L_45(65)av	1134
L_45(75)av	1
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2025-03-27

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: 2025-03-27

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:

```