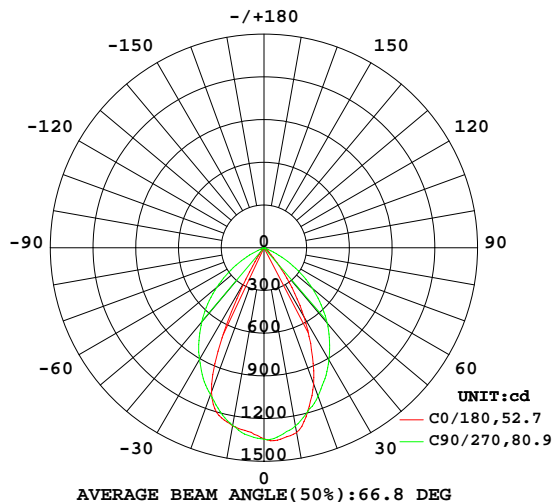


LUMINAIRE PHOTOMETRIC TEST REPORT

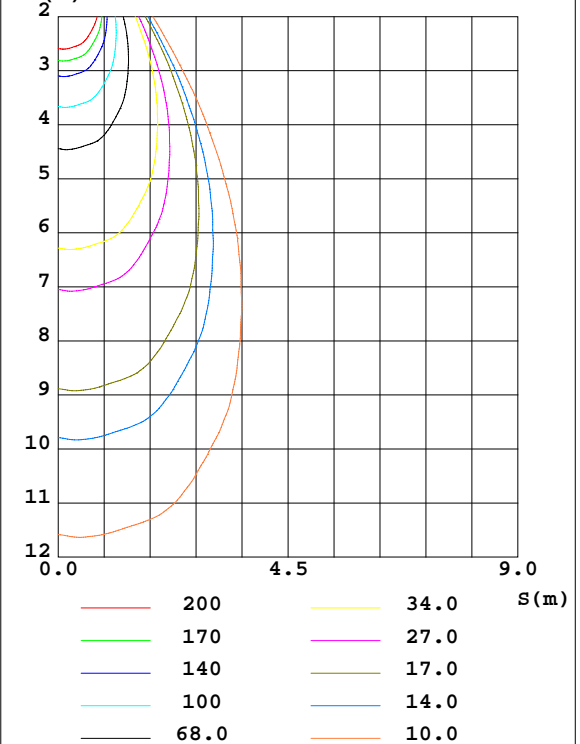
Test:U:229.60V I:0.2887A P:64.375W PF:0.9712 Freq:49.99Hz Lamp Flux:1478.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 22.96 lm/W			
MODEL		Imax(cd)	1362	S/MH(C0/180)	0.73
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.04
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1478.2	η UP,DN(C0-180)	0.0,50.9
NOMINAL FLUX(lm)	1478.24	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

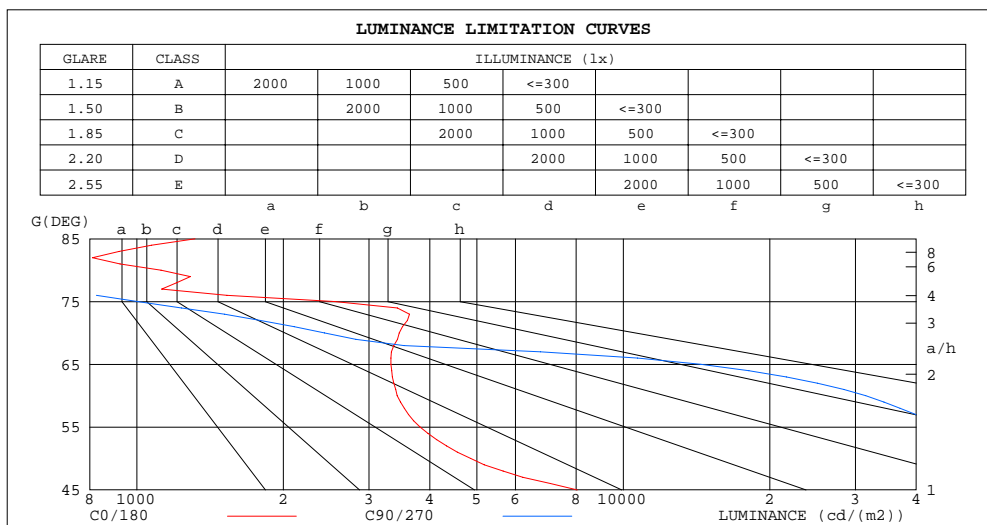
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1319	1293	1270	1241	1271	1245	1268	1300	0- 10	124.7	124.7	8.43,8.43
20	1021	1075	1110	1090	1078	1091	1100	1083	10- 20	334.6	459.3	31.1,31.1
30	567.9	729.8	910.5	764.0	255.4	743.1	906.0	741.7	20- 30	412.3	871.5	59,59
40	166.9	361.7	691.2	172.1	35.78	157.6	679.1	372.4	30- 40	314.7	1186	80.2,80.2
50	38.05	94.39	443.0	24.37	11.40	22.21	431.6	93.92	40- 50	185.1	1371	92.8,92.8
60	20.91	18.49	192.1	6.490	7.034	5.882	183.7	15.69	50- 60	81.67	1453	98.3,98.3
70	14.44	5.946	10.14	2.398	6.606	2.084	11.62	4.828	60- 70	20.28	1473	99.7,99.7
80	2.374	2.235	0.8355	1.160	2.927	1.095	1.087	1.958	70- 80	3.646	1477	99.9,99.9
90	0.9880	0.7732	0.3608	0.7216	1.821	1.340	0.6014	0.9107	80- 90	1.223	1478	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:25.3DEG
 Operators:
 Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.60V I:0.2887A P:64.375W PF:0.9712 Freq:49.99Hz Lamp Flux:1478.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1317	453
80	1121	394
75	2552	1004
70	3461	2430
65	3330	14426
60	3428	31489
55	3821	45427
50	4853	56490
45	8037	65830

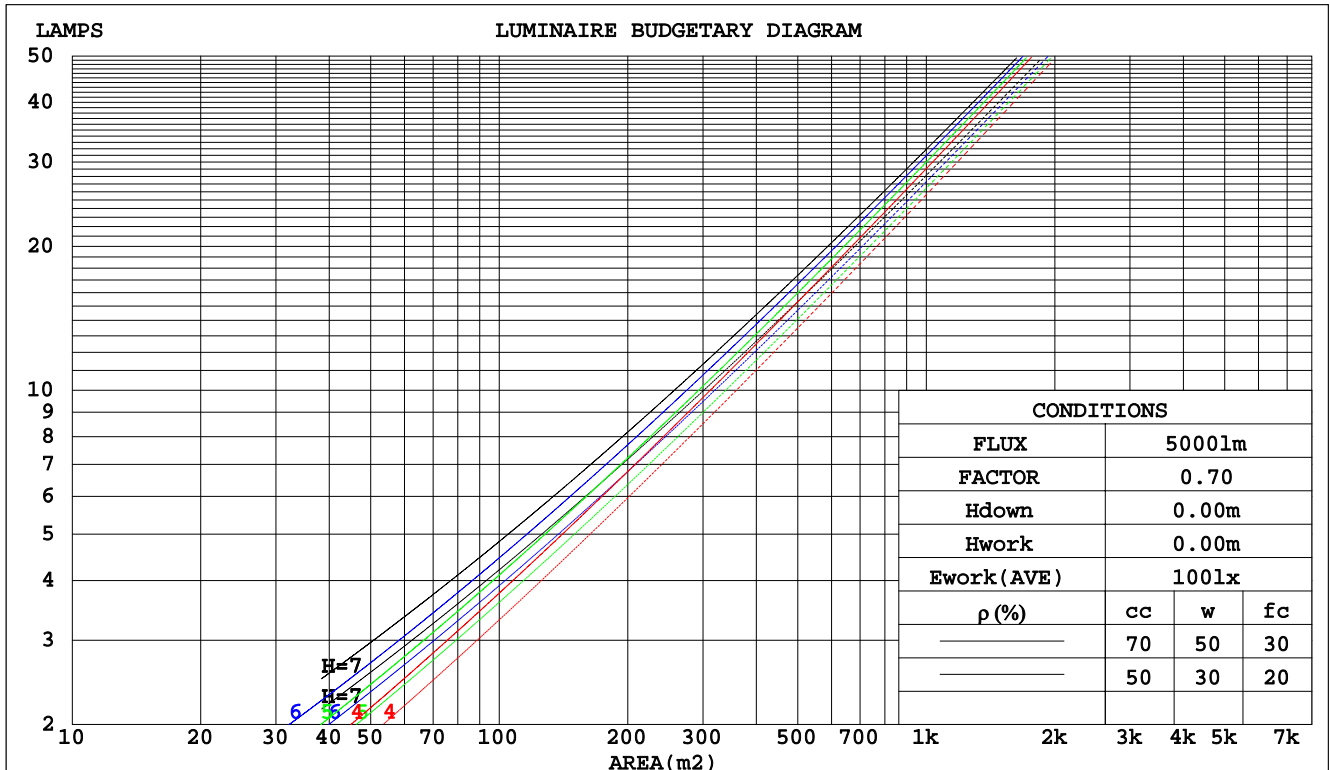
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.60V I:0.2887A P:64.375W PF:0.9712 Freq:49.99Hz Lamp Flux:1478.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	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)															
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	1.10	1.07	1.05	1.08	1.05	1.03	1.03	1.02	.00	.00	.98	.97	.96	.95	.94	.92
2.0	1.01	.96	.93	.99	.95	.92	.96	.92	.90	.93	.90	.88	.90	.88	.86	.84
3.0	.93	.87	.83	.92	.86	.82	.89	.84	.81	.86	.83	.80	.84	.81	.78	.77
4.0	.86	.80	.75	.85	.79	.74	.82	.77	.74	.80	.76	.73	.78	.75	.72	.70
5.0	.79	.73	.68	.78	.72	.68	.77	.71	.67	.75	.70	.67	.73	.69	.66	.64
6.0	.74	.67	.62	.73	.67	.62	.71	.66	.62	.70	.65	.61	.69	.64	.61	.59
7.0	.69	.62	.57	.68	.62	.57	.67	.61	.57	.65	.60	.57	.64	.60	.56	.55
8.0	.64	.58	.53	.64	.57	.53	.62	.57	.53	.61	.56	.53	.60	.56	.52	.51
9.0	.60	.54	.49	.60	.53	.49	.59	.53	.49	.58	.53	.49	.57	.52	.49	.47
10.0	.57	.50	.46	.56	.50	.46	.55	.50	.46	.54	.49	.46	.54	.49	.46	.44



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:229.60V I:0.2887A P:64.375W PF:0.9712 Freq:49.99Hz Lamp Flux:1478.24x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 780*62*42			SERIAL No.:		
MFR.:			SUR.:0.72*0.017			Shielding Angle:		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.197	.112	.036	.190	.109	.035	.178	.102	.033	.166	.096	.031	.155	.090	.029	
2.0	.191	.105	.032	.185	.102	.031	.175	.097	.030	.165	.092	.029	.156	.088	.028	
3.0	.183	.097	.029	.178	.095	.029	.169	.091	.028	.160	.088	.027	.152	.084	.026	
4.0	.174	.091	.027	.170	.089	.026	.162	.086	.026	.154	.083	.025	.147	.080	.024	
5.0	.166	.085	.024	.162	.083	.024	.155	.081	.024	.148	.078	.023	.142	.076	.023	
6.0	.158	.079	.023	.154	.078	.022	.148	.076	.022	.142	.074	.022	.137	.072	.021	
7.0	.150	.074	.021	.147	.073	.021	.142	.072	.021	.136	.070	.020	.132	.068	.020	
8.0	.143	.070	.020	.141	.069	.020	.136	.068	.019	.131	.066	.019	.126	.065	.019	
9.0	.137	.066	.018	.134	.065	.018	.130	.064	.018	.126	.063	.018	.122	.062	.018	
10.0	.131	.063	.017	.128	.062	.017	.124	.061	.017	.120	.060	.017	.117	.059	.017	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016	
2.0	.159	.132	.110	.136	.114	.095	.093	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.148	.114	.087	.127	.098	.075	.087	.068	.053	.050	.040	.031	.016	.013	.010	
4.0	.138	.099	.069	.119	.086	.060	.082	.060	.042	.047	.035	.025	.015	.011	.008	
5.0	.130	.088	.057	.112	.076	.049	.077	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.123	.079	.047	.106	.068	.041	.073	.048	.029	.042	.028	.017	.014	.009	.006	
7.0	.117	.072	.040	.101	.062	.035	.070	.044	.025	.040	.026	.015	.013	.008	.005	
8.0	.111	.066	.034	.096	.057	.030	.066	.040	.021	.039	.024	.013	.012	.008	.004	
9.0	.106	.061	.030	.092	.053	.026	.063	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.102	.056	.026	.088	.049	.023	.061	.034	.016	.035	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.60V I:0.2887A P:64.375W PF:0.9712 Freq:49.99Hz Lamp Flux:1478.24x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 780*62*42			SERIAL No.:			
MFR.:					SUR.:0.72*0.017			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	16.9	18.0	17.1	18.1	18.3	24.7	25.8	25.0	26.0	26.2
	3H	16.9	17.9	17.2	18.1	18.3	24.6	25.6	24.9	25.8	26.0
	4H	16.9	17.9	17.2	18.1	18.3	24.5	25.5	24.8	25.7	25.9
	6H	16.9	17.7	17.2	18.0	18.2	24.4	25.3	24.7	25.5	25.8
	8H	16.8	17.6	17.1	17.9	18.2	24.4	25.2	24.7	25.5	25.7
	12H	16.8	17.6	17.1	17.8	18.1	24.3	25.1	24.7	25.4	25.7
4H	2H	17.0	17.9	17.3	18.1	18.4	24.5	25.4	24.8	25.6	25.9
	3H	17.0	17.8	17.3	18.1	18.4	24.3	25.1	24.7	25.4	25.7
	4H	17.1	17.8	17.4	18.1	18.4	24.3	25.0	24.6	25.3	25.6
	6H	17.0	17.6	17.4	18.0	18.3	24.2	24.8	24.5	25.1	25.5
	8H	17.0	17.6	17.4	17.9	18.3	24.1	24.7	24.5	25.1	25.4
	12H	16.9	17.5	17.3	17.8	18.2	24.1	24.6	24.5	25.0	25.4
8H	4H	16.9	17.5	17.3	17.9	18.3	24.1	24.7	24.5	25.1	25.4
	6H	16.9	17.4	17.3	17.8	18.2	24.0	24.5	24.4	24.9	25.3
	8H	16.9	17.3	17.3	17.7	18.1	24.0	24.4	24.4	24.8	25.3
	12H	16.8	17.2	17.3	17.6	18.1	23.9	24.3	24.4	24.7	25.2
12H	4H	16.9	17.4	17.3	17.8	18.2	24.1	24.6	24.5	25.0	25.4
	6H	16.8	17.3	17.3	17.7	18.1	24.0	24.4	24.4	24.8	25.3
	8H	16.8	17.2	17.3	17.6	18.1	23.9	24.3	24.4	24.7	25.2
Variations with the observer position at spacings:											
S = 1.0H		+ 2.1 / - 5.3					+ 1.6 / - 2.4				
1.5H		+ 3.2 / - 4.9					+ 2.1 / - 6.6				
2.0H		+ 2.7 / - 2.7					+ 4.2 / -12.6				

CIE Pub.117, 1478 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.4$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:229.60V I:0.2887A P:64.375W PF:0.9712 Freq:49.99Hz Lamp Flux:1478.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:

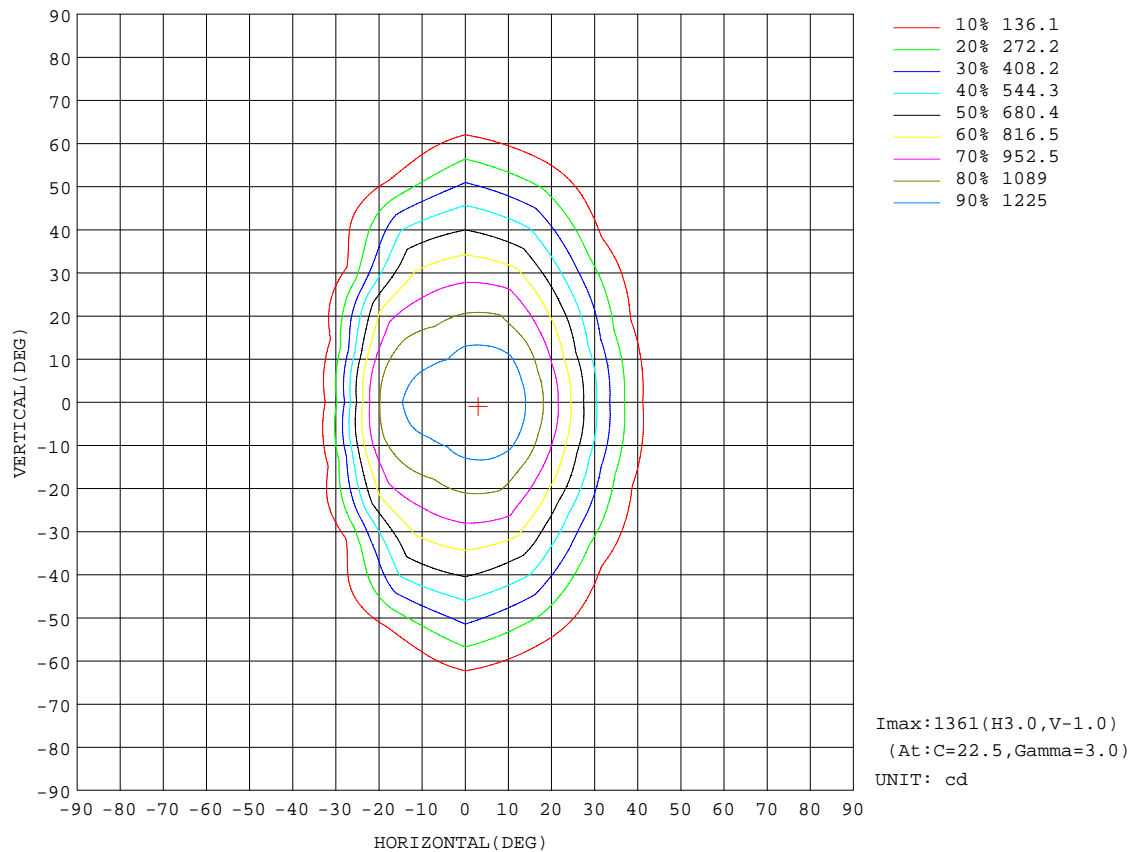
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	79	71	66	78	71	66	77	70	66	62
0.80	88	80	76	87	80	75	86	79	75	70
1.00	94	87	82	93	86	82	91	87	82	77
1.25	99	93	88	98	92	88	96	91	87	82
1.50	102	96	92	101	96	92	99	94	91	86
2.00	106	101	97	105	100	97	102	98	95	89
2.50	108	104	100	106	102	99	103	100	97	91
3.00	110	106	103	108	105	102	105	102	99	93
4.00	112	109	106	110	107	105	106	104	102	95
5.00	114	111	109	111	109	107	107	106	104	96
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:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:229.60V I:0.2887A P:64.375W PF:0.9712 Freq:49.99Hz Lamp Flux:1478.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:

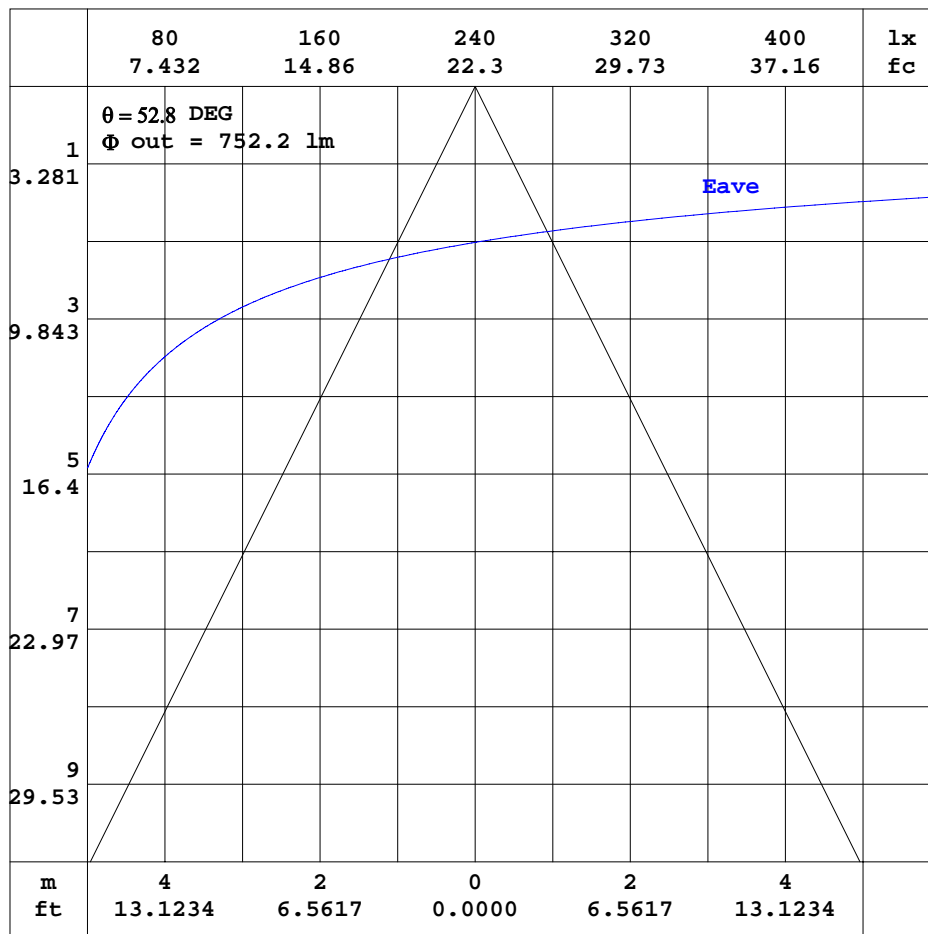


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

AAI CURVES

Test:U:229.60V I:0.2887A P:64.375W PF:0.9712 Freq:49.99Hz Lamp Flux:1478.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:



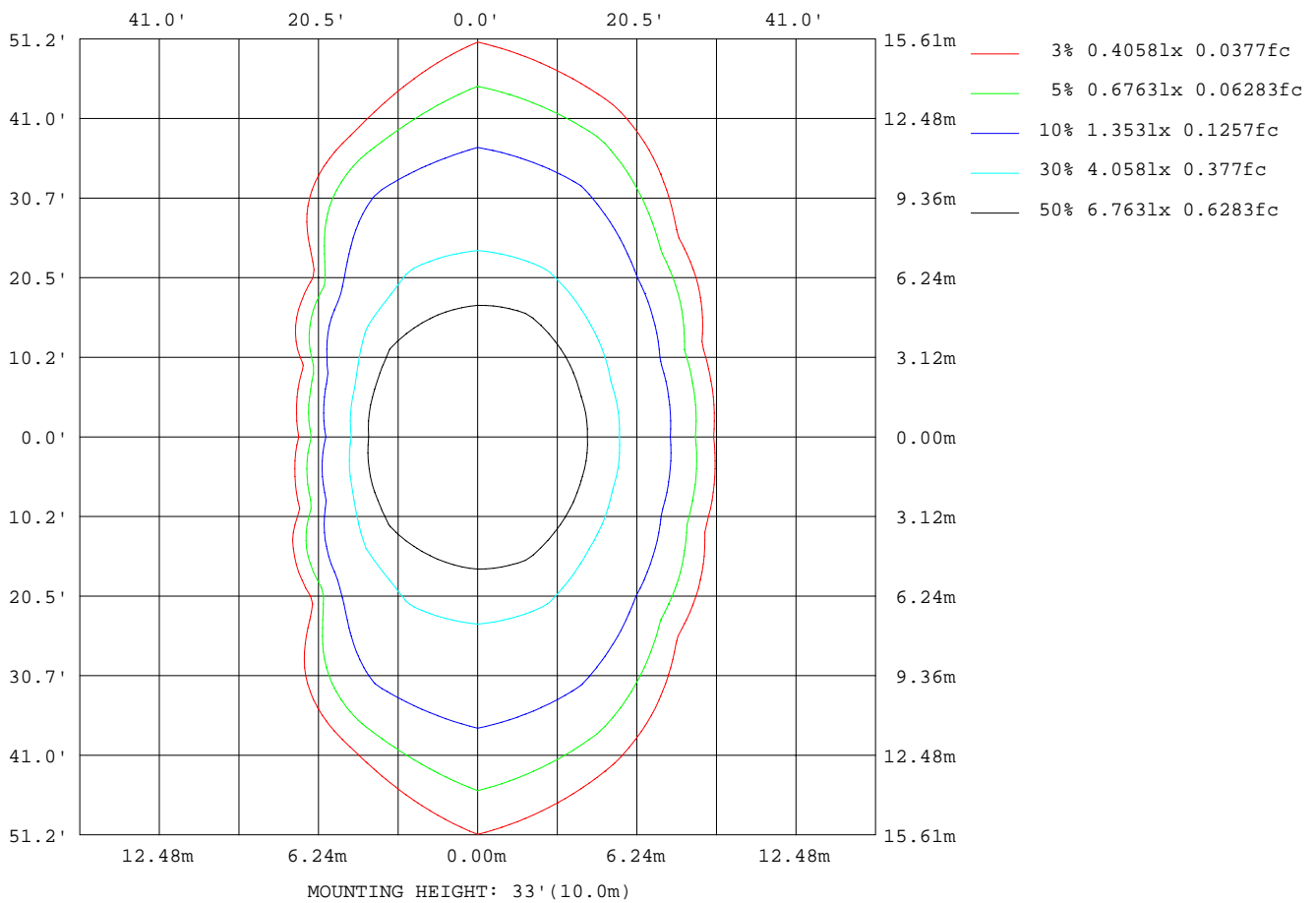
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:229.60V I:0.2887A P:64.375W PF:0.9712 Freq:49.99Hz Lamp Flux:1478.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:229.60V I:0.2887A P:64.375W PF:0.9712 Freq:49.99Hz Lamp Flux:1478.24x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 780*62*42	SERIAL No.:
MFR.:	SUR.:0.72*0.017	Shielding Angle:

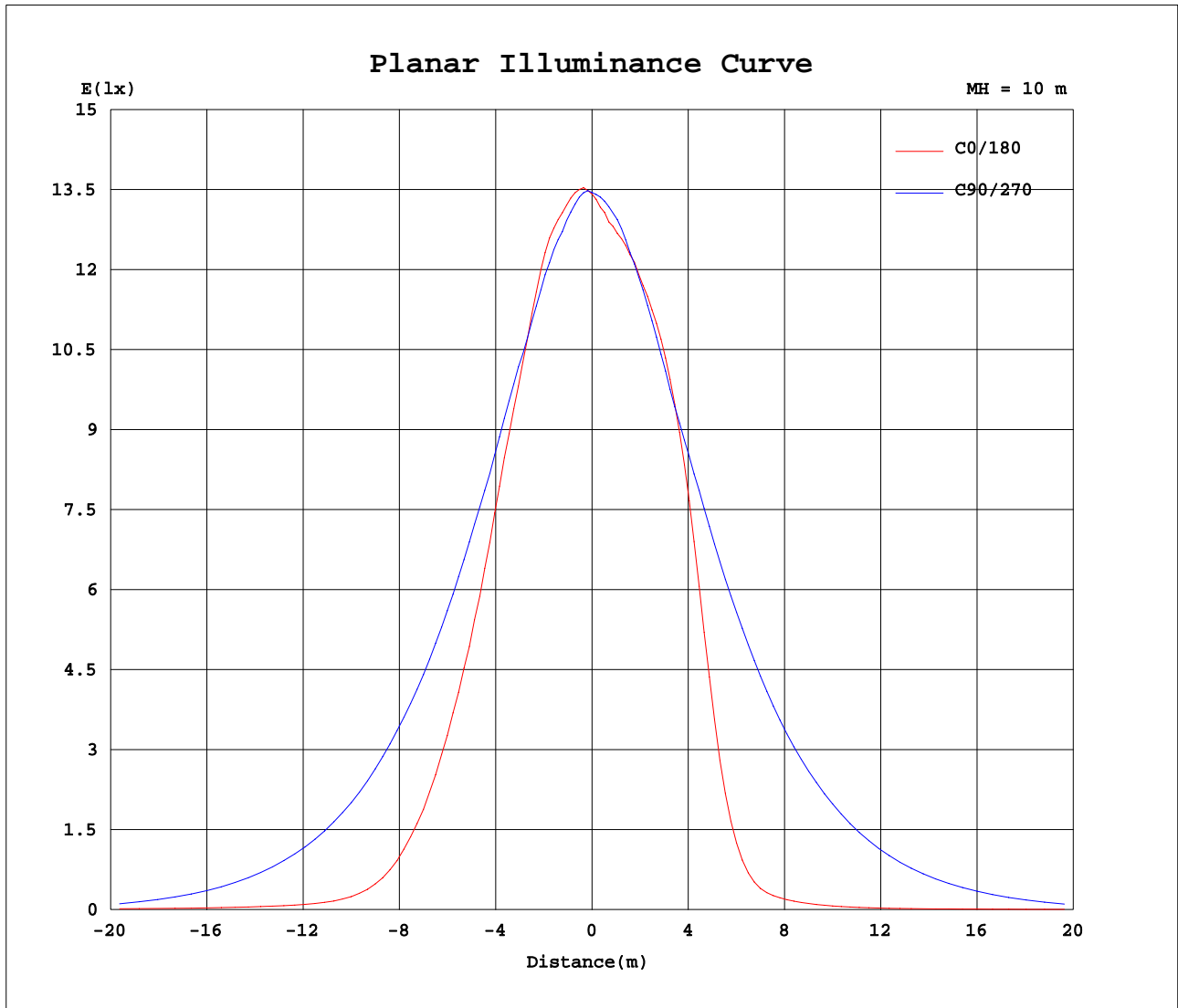
AvgL	cd/m2
L_0~180(65)av	2317
L_0~180(75)av	1967
L_0~180(85)av	1417
L_90~270(65)av	13921
L_90~270(75)av	1121
L_90~270(85)av	501
L_45(65)av	1311
L_45(75)av	686
L_45(85)av	1006

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-10

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-07-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
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Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
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