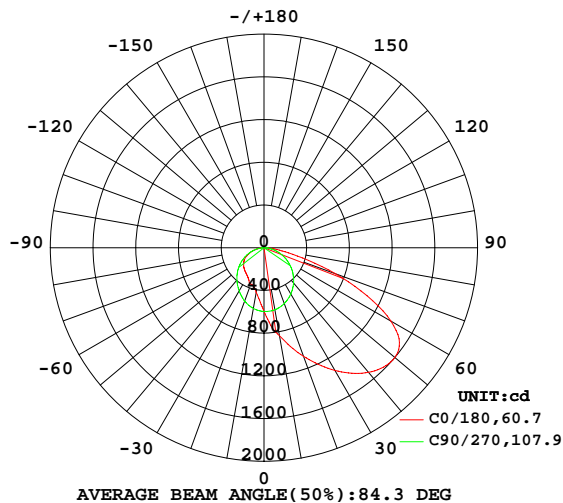


LUMINAIRE PHOTOMETRIC TEST REPORT

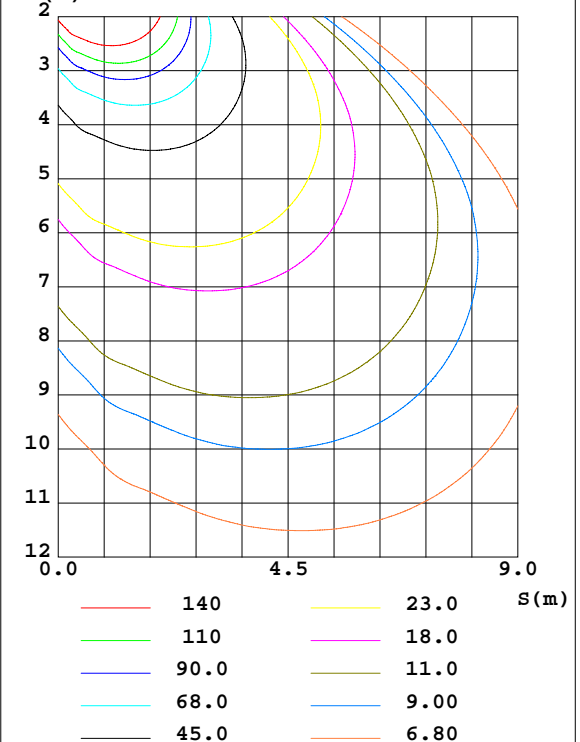
Test:U:229.66V I:0.1038A P:23.192W PF:0.9727 Freq:49.99Hz Lamp Flux:2788.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.22 lm/W			
MODEL		Imax(cd)	1600	S/MH(C0/180)	0.75
NOMINAL POWER(W)	25	LOR(%)	100.0	S/MH(C90/270)	1.17
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	2788.1	η UP,DN(C0-180)	0.0,56.3
NOMINAL FLUX(lm)	2788.09	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,43.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.35

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:2026-01-14

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:

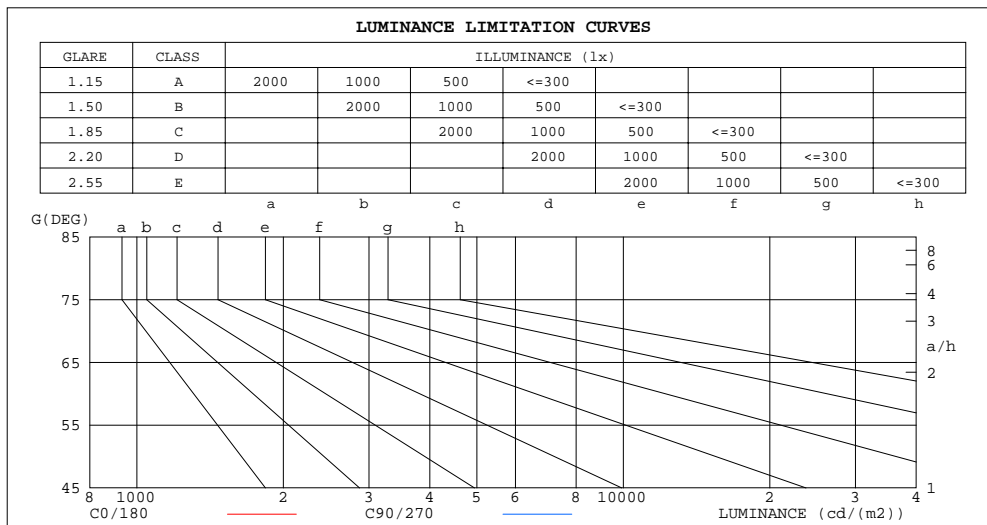
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	836.9	777.4	589.9	460.2	424.3	455.5	577.0	766.5	0- 10	57.77	57.77	2.07,2.07
20	1081	901.5	556.4	371.4	362.8	366.1	532.0	874.1	10- 20	175.9	233.7	8.38,8.38
30	1325	1013	501.7	330.7	309.5	330.0	466.1	964.4	20- 30	298.5	532.2	19.1,19.1
40	1522	1087	431.5	275.8	280.0	273.9	395.3	1009	30- 40	413.4	945.6	33.9,33.9
50	1599	1102	348.9	228.6	249.3	230.5	317.4	997.4	40- 50	502.7	1448	51.9,51.9
60	1371	1057	258.1	177.5	208.3	181.3	234.6	939.4	50- 60	538.2	1987	71.3,71.3
70	712.1	846.7	165.0	120.8	141.7	124.2	148.2	777.9	60- 70	462.3	2449	87.8,87.8
80	173.0	367.5	72.74	54.47	65.87	56.33	63.56	372.9	70- 80	265.3	2714	97.3,97.3
90	6.916	7.921	3.204	7.646	11.42	8.943	3.436	9.485	80- 90	73.91	2788	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:2026-01-14

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:229.66V I:0.1038A P:23.192W PF:0.9727 Freq:49.99Hz Lamp Flux:2788.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	113714	52779
80	144416	60708
75	210282	66184
70	301734	69914
65	365118	72718
60	397450	74820
55	391143	77041
50	360603	78656
45	324012	80192

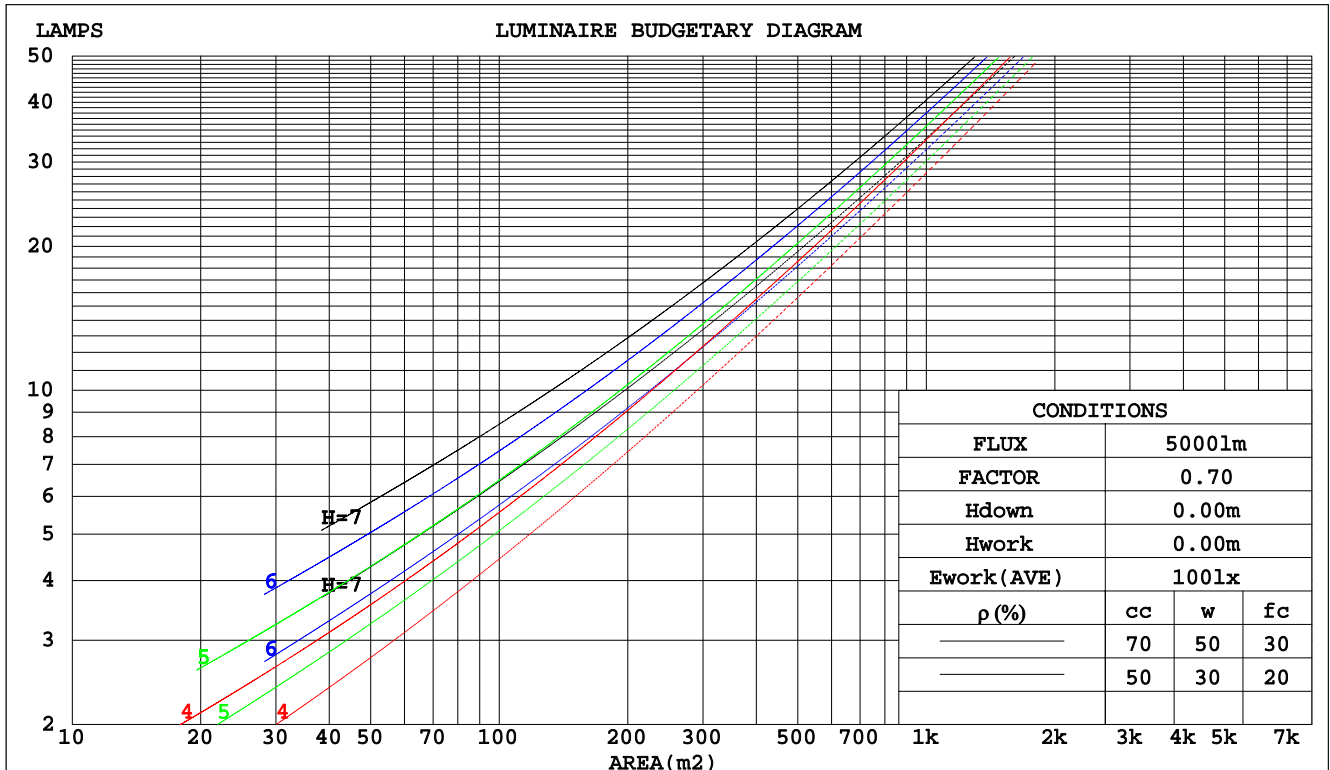
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2026-01-14

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:229.66V I:0.1038A P:23.192W PF:0.9727 Freq:49.99Hz Lamp Flux:2788.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	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						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	1.02	.97	.93	.90	.95	.91	.95	.92	.88	.91	.88	.85	.88	.85	.83	.81
2.0	.87	.79	.73	.85	.78	.72	.81	.75	.70	.78	.73	.69	.75	.71	.67	.65
3.0	.75	.66	.59	.73	.65	.58	.70	.63	.57	.67	.61	.56	.65	.59	.55	.53
4.0	.65	.56	.48	.64	.55	.48	.61	.53	.47	.59	.52	.46	.57	.51	.46	.43
5.0	.58	.48	.40	.56	.47	.40	.54	.46	.40	.52	.45	.39	.50	.44	.39	.36
6.0	.51	.41	.35	.50	.41	.34	.48	.40	.34	.47	.39	.34	.45	.38	.33	.31
7.0	.46	.36	.30	.45	.36	.30	.43	.35	.29	.42	.35	.29	.41	.34	.29	.27
8.0	.42	.32	.26	.41	.32	.26	.39	.32	.26	.38	.31	.26	.37	.30	.25	.23
9.0	.38	.29	.23	.37	.29	.23	.36	.28	.23	.35	.28	.23	.34	.27	.23	.21
10.0	.35	.26	.21	.34	.26	.21	.33	.26	.21	.32	.25	.20	.31	.25	.20	.18



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2026-01-14

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:229.66V I:0.1038A P:23.192W PF:0.9727 Freq:49.99Hz Lamp Flux:2788.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	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	.349	.198	.063	.342	.195	.062	.328	.188	.060	.316	.182	.058	.304	.176	.057		
2.0	.325	.178	.055	.319	.176	.054	.307	.171	.053	.296	.166	.052	.286	.162	.051		
3.0	.298	.159	.048	.293	.157	.047	.282	.153	.046	.272	.149	.046	.263	.146	.045		
4.0	.273	.142	.042	.268	.140	.041	.258	.137	.041	.250	.134	.040	.241	.131	.040		
5.0	.250	.128	.037	.246	.126	.037	.237	.124	.036	.230	.121	.036	.222	.119	.036		
6.0	.231	.116	.033	.227	.114	.033	.219	.112	.033	.212	.110	.032	.205	.108	.032		
7.0	.213	.105	.030	.210	.105	.030	.203	.103	.030	.197	.101	.029	.191	.099	.029		
8.0	.198	.097	.027	.195	.096	.027	.189	.094	.027	.183	.093	.027	.178	.091	.027		
9.0	.185	.089	.025	.182	.089	.025	.177	.087	.025	.171	.086	.025	.167	.085	.024		
10.0	.173	.083	.023	.170	.082	.023	.166	.081	.023	.161	.080	.023	.157	.079	.023		

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	.183	.156	.131	.157	.134	.113	.107	.092	.078	.062	.053	.045	.020	.017	.015	
2.0	.177	.132	.094	.151	.113	.081	.104	.078	.057	.060	.046	.033	.019	.015	.011	
3.0	.170	.114	.070	.146	.099	.061	.100	.069	.043	.058	.040	.025	.019	.013	.008	
4.0	.163	.102	.055	.140	.088	.048	.096	.061	.034	.056	.036	.020	.018	.012	.007	
5.0	.155	.091	.044	.133	.079	.038	.092	.055	.027	.053	.032	.016	.017	.011	.005	
6.0	.148	.083	.037	.127	.072	.032	.088	.050	.023	.051	.030	.013	.016	.010	.004	
7.0	.141	.076	.031	.121	.066	.027	.084	.046	.019	.049	.027	.011	.016	.009	.004	
8.0	.134	.071	.027	.115	.061	.024	.080	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.128	.066	.024	.110	.057	.021	.076	.040	.015	.044	.024	.009	.014	.008	.003	
10.0	.122	.061	.021	.105	.053	.019	.073	.038	.013	.042	.022	.008	.014	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-14

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:229.66V I:0.1038A P:23.192W PF:0.9727 Freq:49.99Hz Lamp Flux:2788.09x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 310*100*27			SERIAL No.:			
MFR.:					SUR.:0.3*0.023			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		37.0	38.6	37.2	38.8	39.1	30.7	32.4	31.0	32.6	32.8
	3H	38.6	40.2	38.9	40.4	40.7	31.8	33.4	32.1	33.6	33.9
	4H	39.0	40.5	39.3	40.7	41.0	32.3	33.7	32.6	34.0	34.3
	6H	39.1	40.5	39.4	40.8	41.1	32.6	34.0	33.0	34.3	34.6
	8H	39.1	40.5	39.5	40.7	41.0	32.7	34.0	33.1	34.3	34.6
	12H	39.1	40.4	39.5	40.7	41.0	32.8	34.0	33.1	34.3	34.7
4H	2H	37.4	38.9	37.8	39.2	39.4	33.6	35.1	33.9	35.3	35.6
	3H	39.4	40.7	39.7	41.0	41.3	34.9	36.2	35.3	36.5	36.8
	4H	39.9	41.1	40.3	41.4	41.7	35.5	36.6	35.8	37.0	37.3
	6H	40.1	41.2	40.5	41.5	41.9	35.8	36.9	36.2	37.3	37.6
	8H	40.1	41.1	40.6	41.5	41.9	36.0	37.0	36.4	37.3	37.7
	12H	40.2	41.1	40.6	41.5	41.9	36.0	36.9	36.5	37.3	37.7
8H	4H	40.2	41.1	40.6	41.5	41.9	36.7	37.7	37.1	38.1	38.5
	6H	40.5	41.4	41.0	41.8	42.2	37.4	38.2	37.8	38.6	39.0
	8H	40.6	41.4	41.1	41.8	42.2	37.6	38.4	38.1	38.8	39.3
	12H	40.7	41.3	41.2	41.8	42.3	37.8	38.5	38.3	38.9	39.4
12H	4H	40.2	41.1	40.6	41.5	41.9	36.8	37.7	37.2	38.1	38.5
	6H	40.6	41.3	41.1	41.8	42.2	37.6	38.3	38.1	38.8	39.2
	8H	40.7	41.4	41.2	41.8	42.3	38.0	38.6	38.5	39.1	39.5
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.3 / - 0.4					+ 0.2 / - 0.3					
2.0H	+ 0.5 / - 0.8					+ 0.5 / - 0.7					

CIE Pub.117, 2788 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.6$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-14

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:229.66V I:0.1038A P:23.192W PF:0.9727 Freq:49.99Hz Lamp Flux:2788.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:

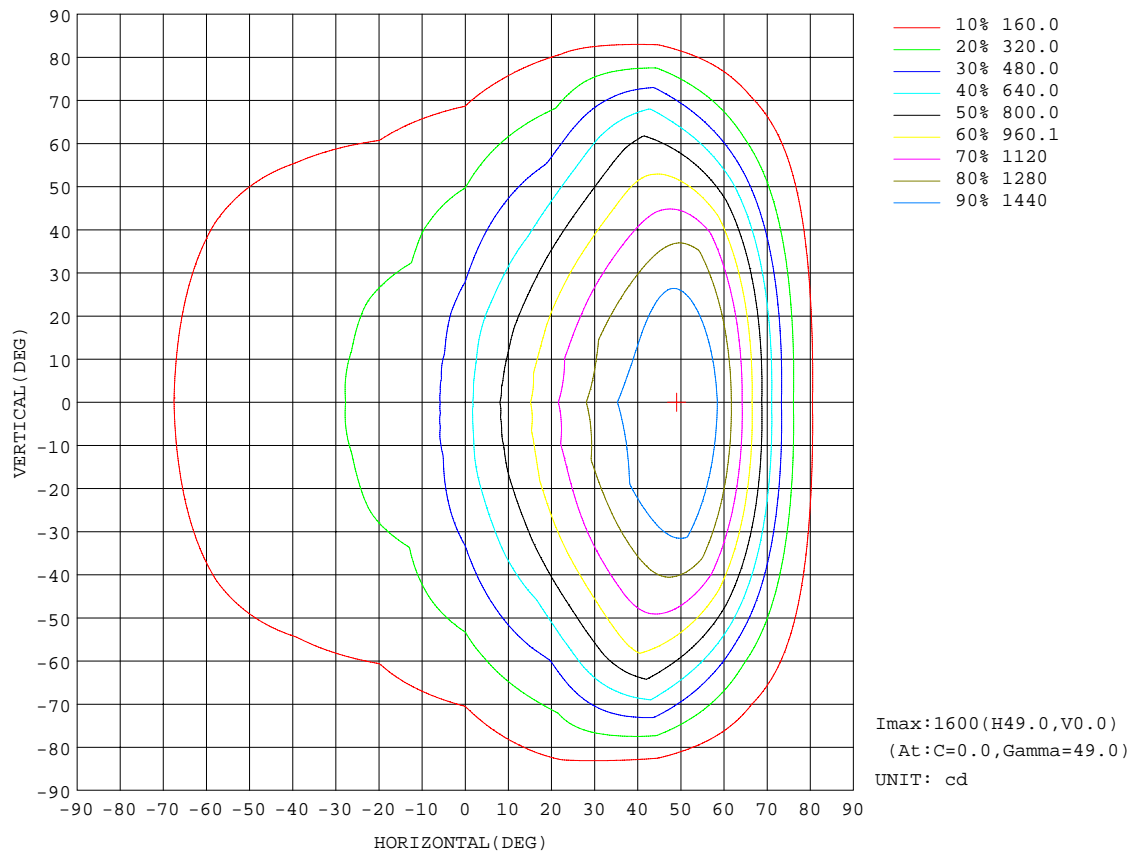
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	51	39	31	51	38	31	49	38	31	24
0.80	61	49	40	60	48	40	58	47	40	32
1.00	70	58	50	69	57	49	67	59	49	41
1.25	78	66	58	76	65	58	74	64	57	49
1.50	83	72	64	82	71	64	78	69	63	54
2.00	91	81	74	89	80	73	86	78	72	63
2.50	96	87	80	94	85	79	90	83	77	68
3.00	100	92	85	97	90	84	93	87	82	73
4.00	104	98	92	102	96	91	97	93	88	79
5.00	107	102	97	105	100	95	100	96	92	83
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:2026-01-14

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:229.66V I:0.1038A P:23.192W PF:0.9727 Freq:49.99Hz Lamp Flux:2788.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:

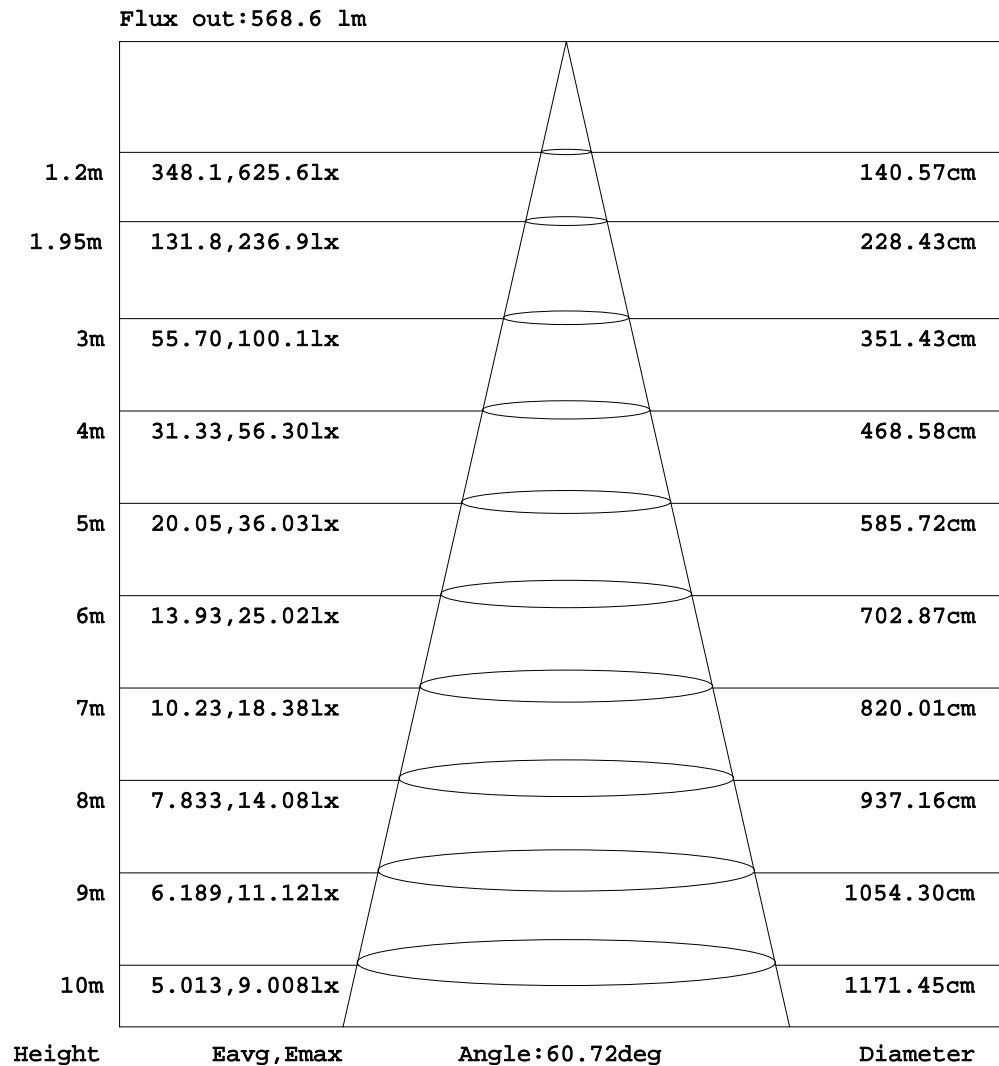


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-14

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 Figure

Test:U:229.66V I:0.1038A P:23.192W PF:0.9727 Freq:49.99Hz Lamp Flux:2788.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:



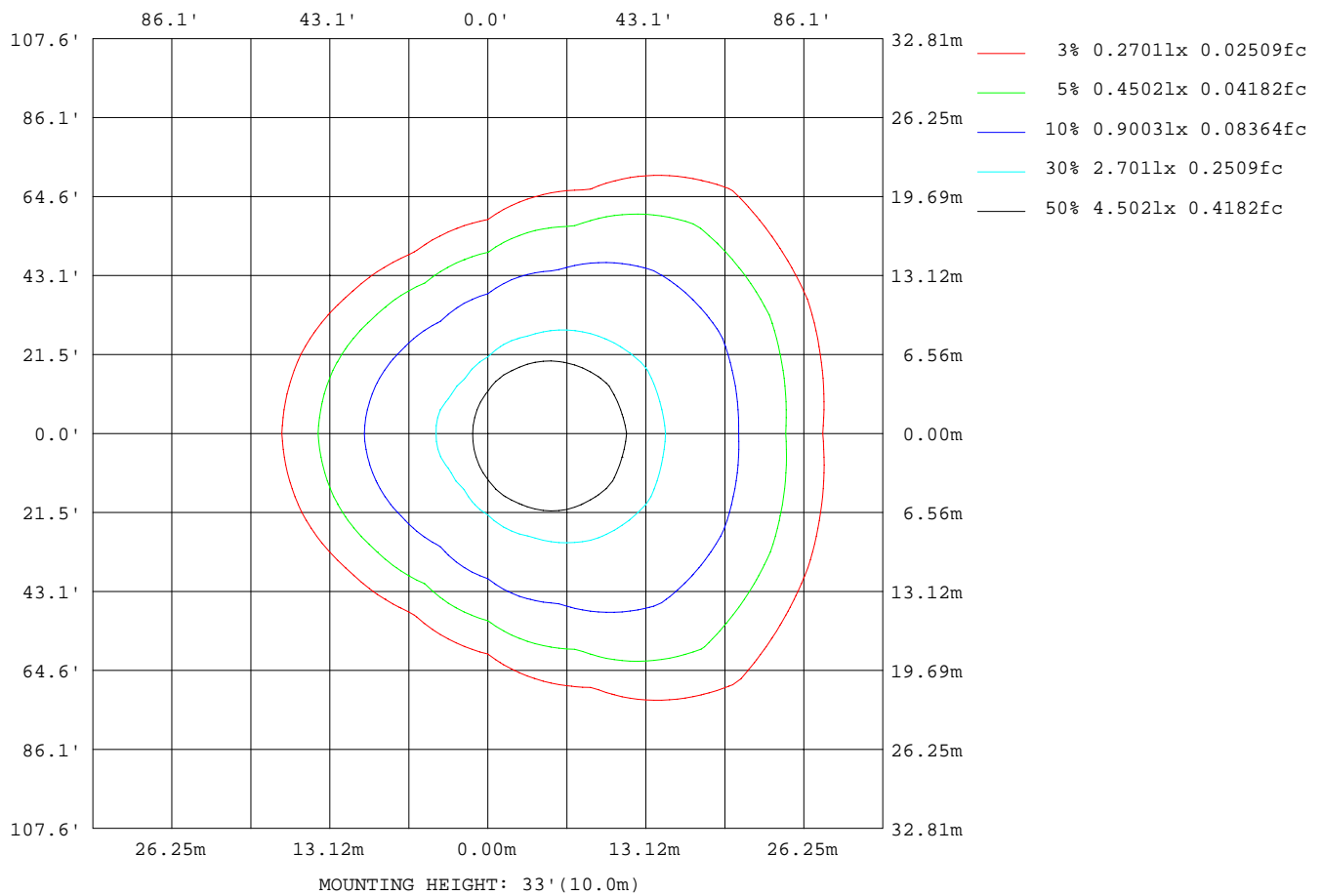
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-14

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:229.66V I:0.1038A P:23.192W PF:0.9727 Freq:49.99Hz Lamp Flux:2788.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-14

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:229.66V I:0.1038A P:23.192W PF:0.9727 Freq:49.99Hz Lamp Flux:2788.09x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 310*100*27	SERIAL No.:
MFR.:	SUR.:0.3*0.023	Shielding Angle:

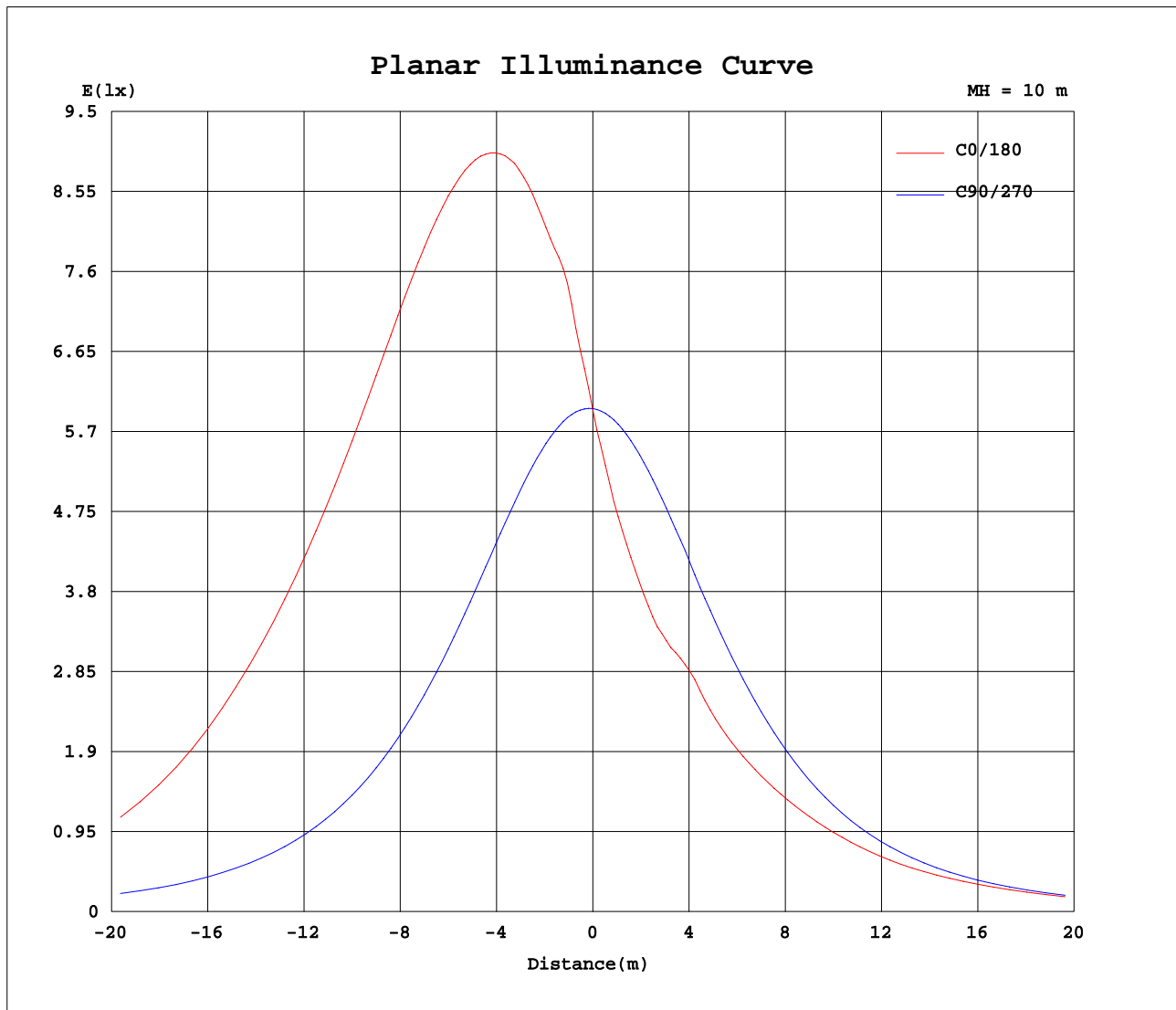
AvgL	cd/m2
L_0~180(65)av	213029
L_0~180(75)av	134269
L_0~180(85)av	84817
L_90~270(65)av	69240
L_90~270(75)av	62432
L_90~270(85)av	48903
L_45(65)av	187500
L_45(75)av	198079
L_45(85)av	148060

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2026-01-14

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: 2026-01-14

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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