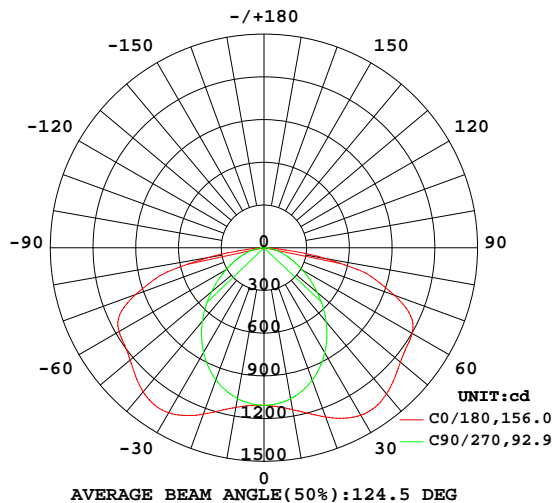


LUMINAIRE PHOTOMETRIC TEST REPORT

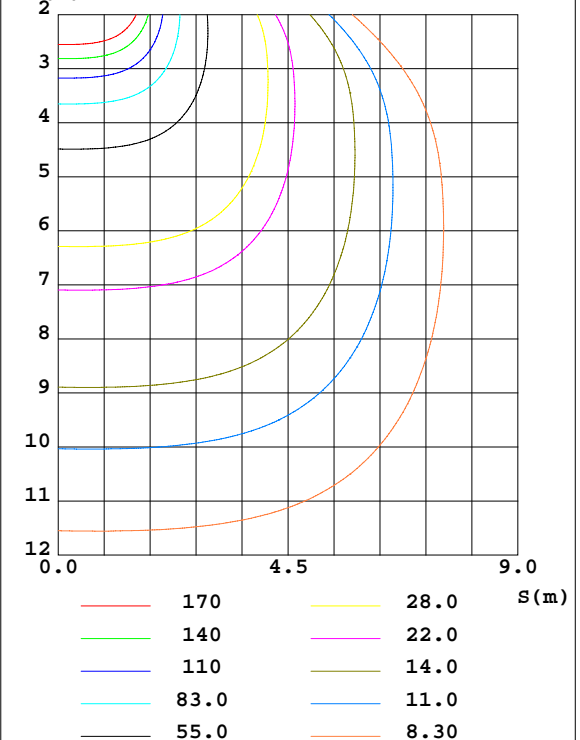
Test:U:229.67V I:0.2538A P:57.361W PF:0.9841 Freq:49.99Hz Lamp Flux:4631.73x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*77	SERIAL No.:
MFR.:	SUR.:1.00*0.021	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.75 lm/W			
MODEL		Imax(cd)	1366	S/MH(C0/180)	1.76
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.15
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	4631.7	η UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	4631.73	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.55

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:2025-08-20

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:

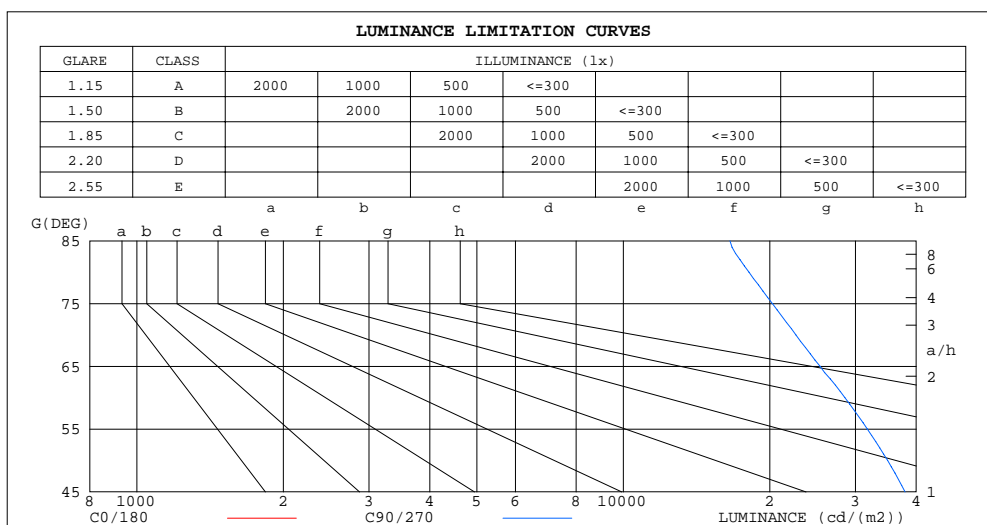
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1155	1117	1077	1103	1138	1103	1075	1114	0- 10	105.7	105.7	2.28,2.28
20	1264	1135	990.1	1117	1244	1110	986.5	1132	10- 20	316.4	422.1	9.11,9.11
30	1358	1154	852.9	1138	1338	1124	849.6	1151	20- 30	519.6	941.7	20.3,20.3
40	1339	1150	679.5	1137	1320	1118	673.2	1144	30- 40	686.9	1629	35.2,35.2
50	1250	1083	489.5	1071	1227	1049	479.9	1072	40- 50	778.0	2407	52,52
60	1202	939.6	311.1	923.7	1175	896.5	307.4	919.6	50- 60	787.8	3194	69,69
70	974.4	763.9	168.8	743.2	959.4	707.4	169.0	739.4	60- 70	730.7	3925	84.7,84.7
80	443.7	531.0	68.62	524.9	402.1	500.2	69.19	517.8	70- 80	542.2	4467	96.5,96.5
90	6.667	9.880	5.378	6.108	8.282	7.466	5.954	10.46	80- 90	164.4	4632	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:2025-08-20

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:229.67V I:0.2538A P:57.361W PF:0.9841 Freq:49.99Hz Lamp Flux:4631.73x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*77	SERIAL No.:
MFR.:	SUR.:1.00*0.021	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	51932	16564
80	117214	18127
75	137857	20256
70	130682	22640
65	123511	25376
60	110232	28543
55	97597	31741
50	89240	34933
45	84064	37952

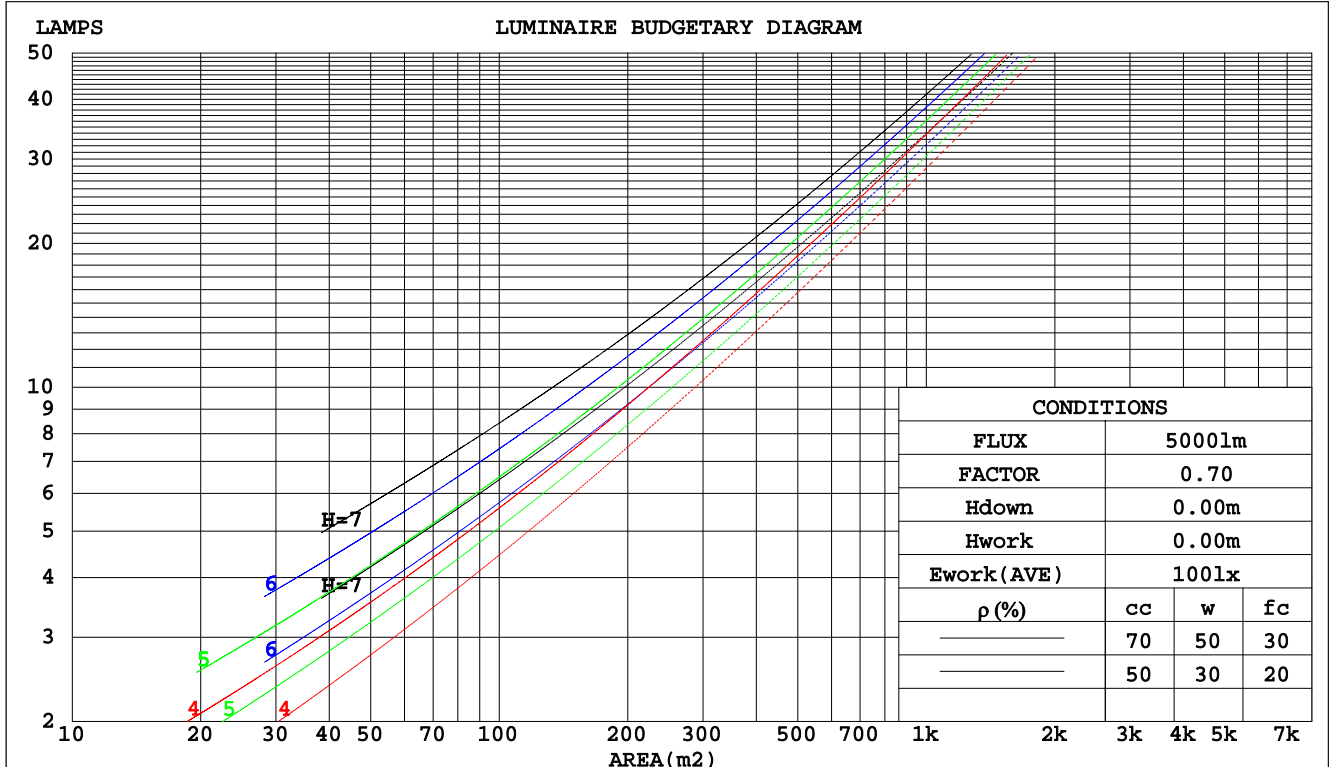
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

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:229.67V I:0.2538A P:57.361W PF:0.9841 Freq:49.99Hz Lamp Flux:4631.73x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*77	SERIAL No.:
MFR.:	SUR.:1.00*0.021	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	1.01	.96	.91	.99	.94	.90	.94	.91	.87	.90	.87	.84	.87	.84	.82	.80
2.0	.86	.78	.72	.84	.77	.71	.81	.74	.69	.77	.72	.67	.74	.70	.66	.64
3.0	.74	.65	.58	.73	.64	.57	.70	.62	.56	.67	.60	.55	.64	.59	.54	.52
4.0	.65	.55	.48	.64	.54	.47	.61	.53	.47	.59	.52	.46	.56	.50	.45	.43
5.0	.57	.48	.40	.56	.47	.40	.54	.46	.40	.52	.45	.39	.50	.44	.39	.36
6.0	.51	.42	.35	.50	.41	.34	.48	.40	.34	.47	.39	.34	.45	.38	.33	.31
7.0	.46	.37	.30	.45	.36	.30	.44	.36	.30	.42	.35	.29	.41	.34	.29	.27
8.0	.42	.33	.27	.41	.32	.26	.40	.32	.26	.38	.31	.26	.37	.31	.26	.24
9.0	.38	.30	.24	.38	.29	.24	.36	.29	.23	.35	.28	.23	.34	.28	.23	.21
10.0	.35	.27	.21	.35	.27	.21	.34	.26	.21	.33	.26	.21	.32	.25	.21	.19



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

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:229.67V I:0.2538A P:57.361W PF:0.9841 Freq:49.99Hz Lamp Flux:4631.73x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 1285*48*77			SERIAL No.:		
MFR.:			SUR.:1.00*0.021			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	.364	.207	.065	.356	.203	.065	.343	.197	.063	.330	.191	.061	.319	.185	.060		
2.0	.333	.183	.056	.327	.180	.055	.315	.175	.054	.303	.170	.053	.293	.166	.052		
3.0	.302	.161	.048	.297	.159	.048	.286	.155	.047	.276	.151	.046	.267	.148	.046		
4.0	.275	.143	.042	.270	.141	.042	.260	.138	.041	.251	.135	.041	.243	.132	.040		
5.0	.251	.128	.037	.246	.126	.037	.238	.124	.036	.230	.121	.036	.223	.119	.036		
6.0	.230	.115	.033	.226	.114	.033	.219	.112	.033	.212	.110	.032	.205	.108	.032		
7.0	.213	.105	.030	.209	.104	.030	.202	.102	.029	.196	.101	.029	.190	.099	.029		
8.0	.197	.096	.027	.194	.096	.027	.188	.094	.027	.183	.092	.027	.177	.091	.026		
9.0	.184	.089	.025	.181	.088	.025	.176	.087	.025	.171	.086	.024	.166	.084	.024		
10.0	.172	.083	.023	.170	.082	.023	.165	.081	.023	.160	.080	.023	.156	.078	.022		

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	.184	.156	.130	.157	.134	.112	.108	.092	.077	.062	.053	.045	.020	.017	.015	
2.0	.178	.132	.093	.152	.113	.080	.104	.078	.056	.060	.046	.033	.019	.015	.011	
3.0	.171	.115	.070	.146	.099	.060	.100	.069	.042	.058	.040	.025	.019	.013	.008	
4.0	.163	.102	.055	.140	.088	.047	.096	.061	.033	.056	.036	.020	.018	.012	.006	
5.0	.155	.091	.044	.134	.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	.012	.016	.009	.004	
8.0	.134	.071	.027	.115	.061	.024	.080	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.127	.066	.024	.110	.057	.021	.076	.040	.015	.044	.024	.009	.014	.008	.003	
10.0	.121	.061	.022	.104	.053	.019	.072	.037	.013	.042	.022	.008	.014	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

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:229.67V I:0.2538A P:57.361W PF:0.9841 Freq:49.99Hz Lamp Flux:4631.73x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 1285*48*77			SERIAL No.:			
MFR.:					SUR.:1.00*0.021			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	30.1	31.8	30.4	32.0	32.2	25.1	26.8	25.4	27.0	27.2	
	32.8	34.4	33.1	34.6	34.9	26.0	27.6	26.3	27.8	28.0	
	34.0	35.5	34.3	35.7	36.0	26.3	27.8	26.7	28.1	28.3	
	34.8	36.2	35.2	36.5	36.8	26.6	27.9	26.9	28.2	28.5	
	35.0	36.3	35.3	36.6	36.9	26.6	28.0	27.0	28.3	28.6	
	35.0	36.3	35.4	36.6	36.9	26.6	27.9	27.0	28.2	28.6	
4H	2H	30.6	32.1	31.0	32.4	32.7	27.4	28.9	27.7	29.1	29.4
	3H	33.7	35.0	34.0	35.3	35.6	28.6	29.9	29.0	30.2	30.6
	4H	35.1	36.3	35.4	36.6	36.9	29.1	30.3	29.4	30.6	30.9
	6H	36.1	37.1	36.5	37.5	37.9	29.3	30.4	29.7	30.7	31.1
	8H	36.3	37.3	36.7	37.7	38.1	29.4	30.4	29.8	30.8	31.2
	12H	36.4	37.3	36.8	37.7	38.1	29.4	30.4	29.9	30.8	31.2
8H	4H	35.4	36.4	35.8	36.8	37.2	30.9	31.9	31.3	32.3	32.7
	6H	36.6	37.5	37.1	37.9	38.3	31.6	32.4	32.0	32.8	33.2
	8H	37.0	37.8	37.5	38.2	38.6	31.7	32.5	32.2	32.9	33.4
	12H	37.2	37.8	37.6	38.3	38.7	31.8	32.5	32.3	32.9	33.4
12H	4H	35.4	36.3	35.8	36.7	37.1	31.3	32.2	31.7	32.6	33.0
	6H	36.7	37.5	37.2	37.9	38.4	32.2	33.0	32.7	33.4	33.9
	8H	37.2	37.8	37.6	38.3	38.8	32.5	33.2	33.0	33.6	34.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2					
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.4					
2.0H	+ 0.2 / - 0.4					+ 0.4 / - 0.5					

CIE Pub.117, 4632 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 5.3$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-08-20

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:229.67V I:0.2538A P:57.361W PF:0.9841 Freq:49.99Hz Lamp Flux:4631.73x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*77	SERIAL No.:
MFR.:	SUR.:1.00*0.021	Shielding Angle:

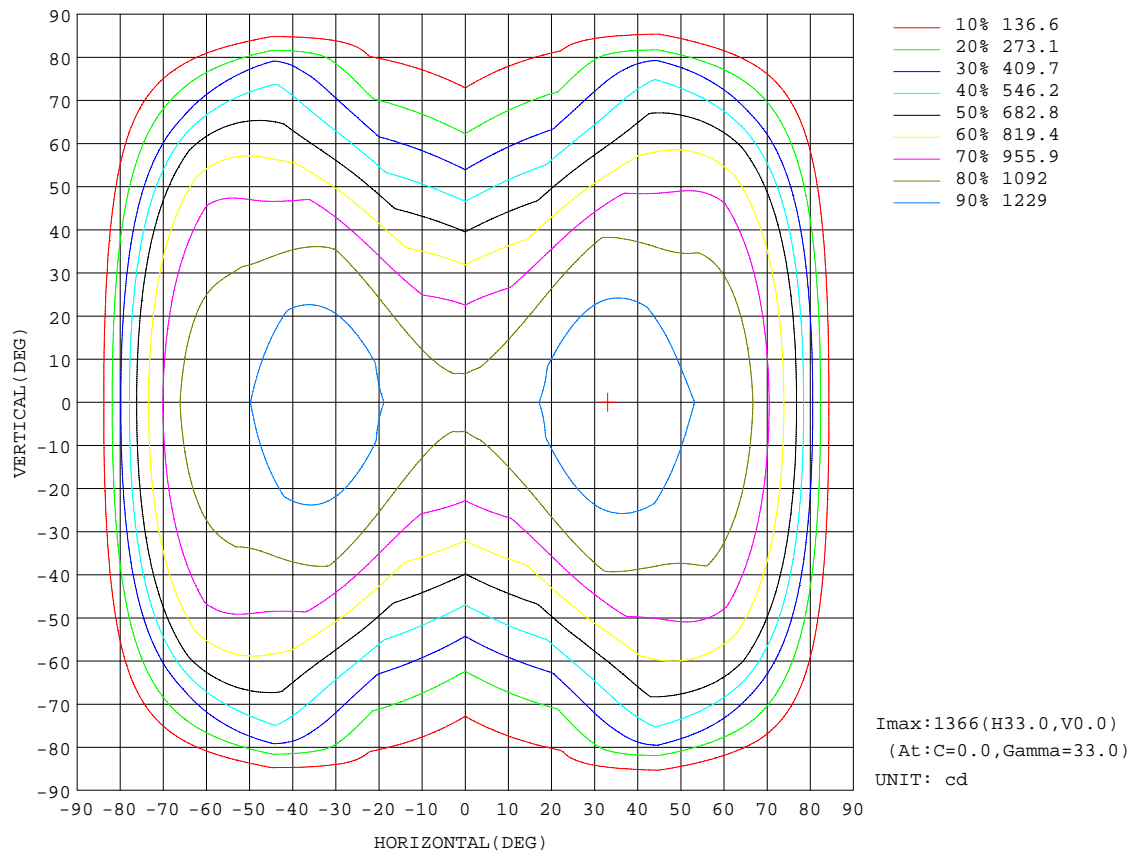
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	40	32	52	40	32	50	39	32	25
0.80	62	49	41	61	49	41	59	48	41	33
1.00	71	58	50	69	57	50	67	59	49	41
1.25	78	66	58	76	65	57	73	64	57	48
1.50	83	72	64	81	71	63	78	69	62	54
2.00	91	81	73	89	80	73	85	77	71	62
2.50	95	86	79	93	85	78	89	82	76	67
3.00	99	91	85	97	89	83	92	86	81	72
4.00	104	97	92	101	95	90	97	92	87	78
5.00	107	101	96	104	99	95	99	95	91	82
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:2025-08-20

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:229.67V I:0.2538A P:57.361W PF:0.9841 Freq:49.99Hz Lamp Flux:4631.73x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*77	SERIAL No.:
MFR.:	SUR.:1.00*0.021	Shielding Angle:

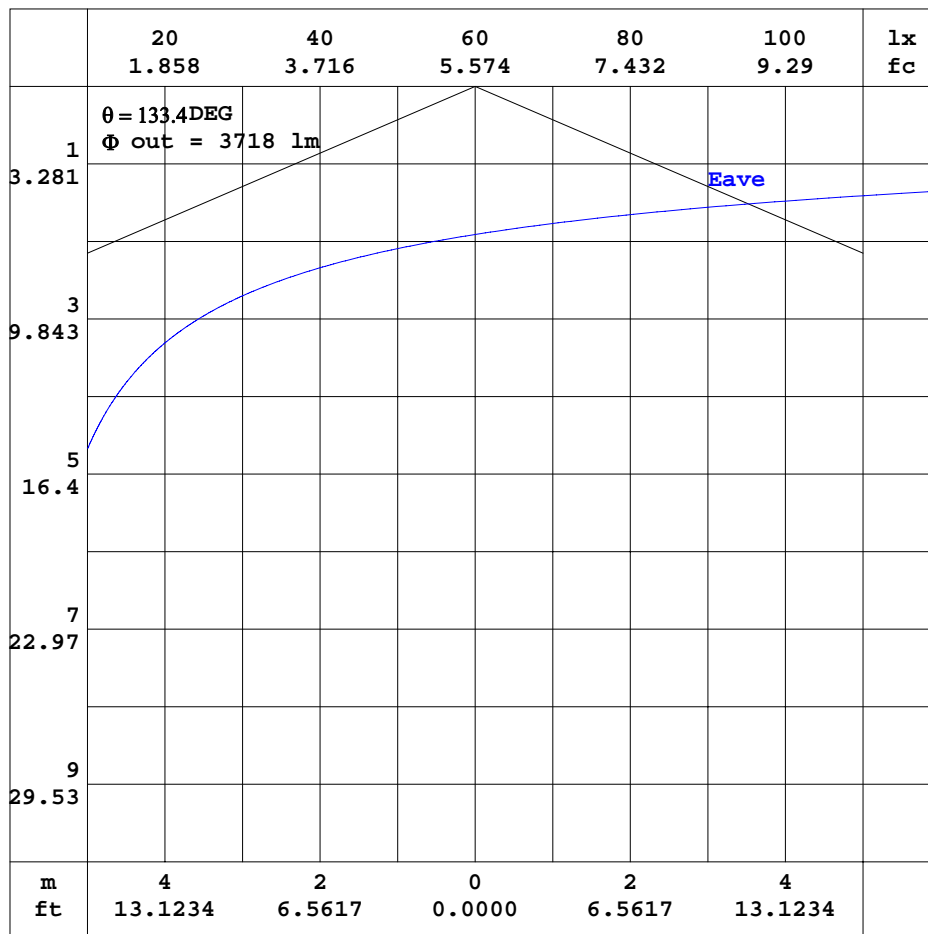


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

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:229.67V I:0.2538A P:57.361W PF:0.9841 Freq:49.99Hz Lamp Flux:4631.73x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*77	SERIAL No.:
MFR.:	SUR.:1.00*0.021	Shielding Angle:



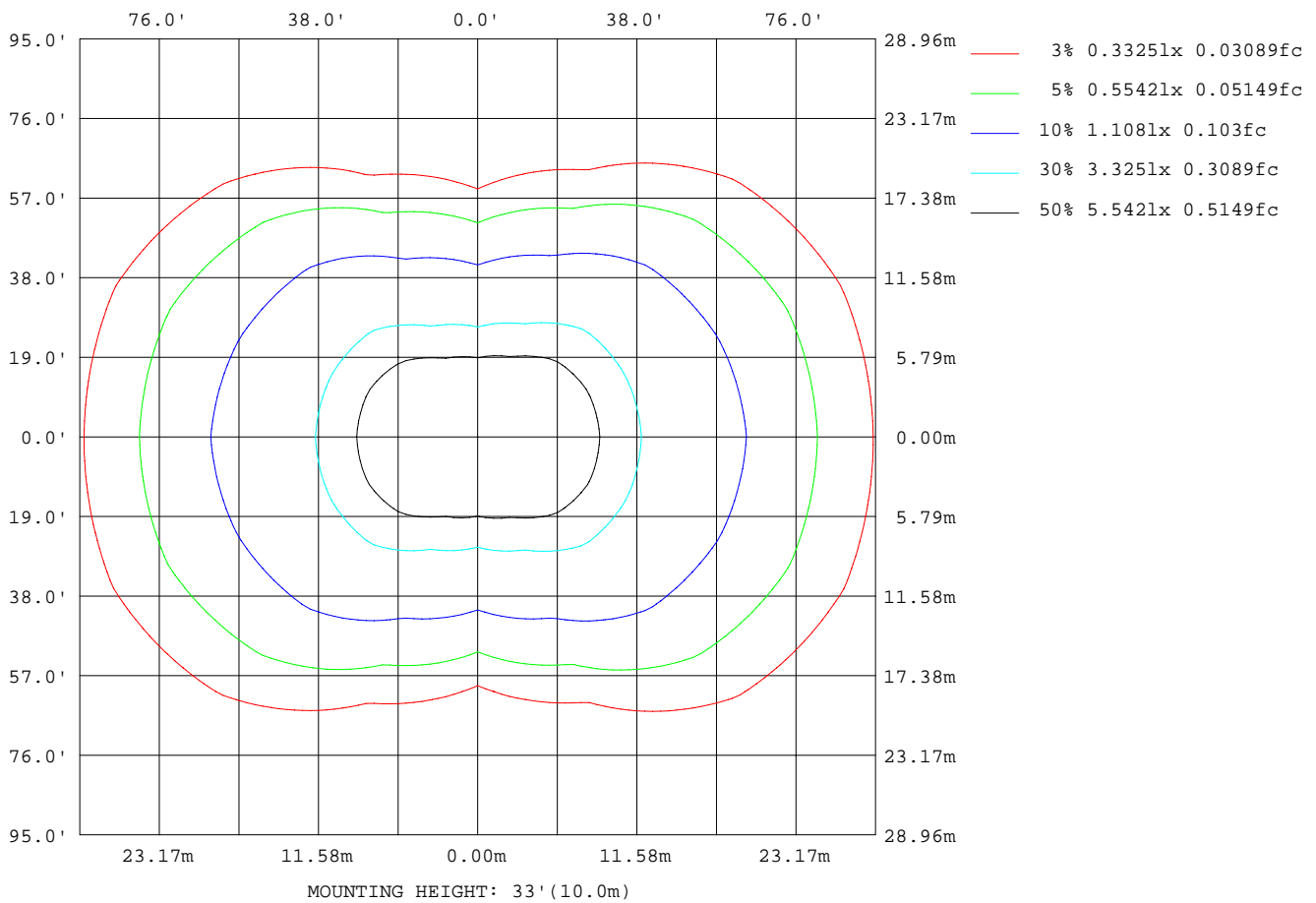
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

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:229.67V I:0.2538A P:57.361W PF:0.9841 Freq:49.99Hz Lamp Flux:4631.73x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*77	SERIAL No.:
MFR.:	SUR.:1.00*0.021	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-08-20

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:229.67V I:0.2538A P:57.361W PF:0.9841 Freq:49.99Hz Lamp Flux:4631.73x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*77	SERIAL No.:
MFR.:	SUR.:1.00*0.021	Shielding Angle:

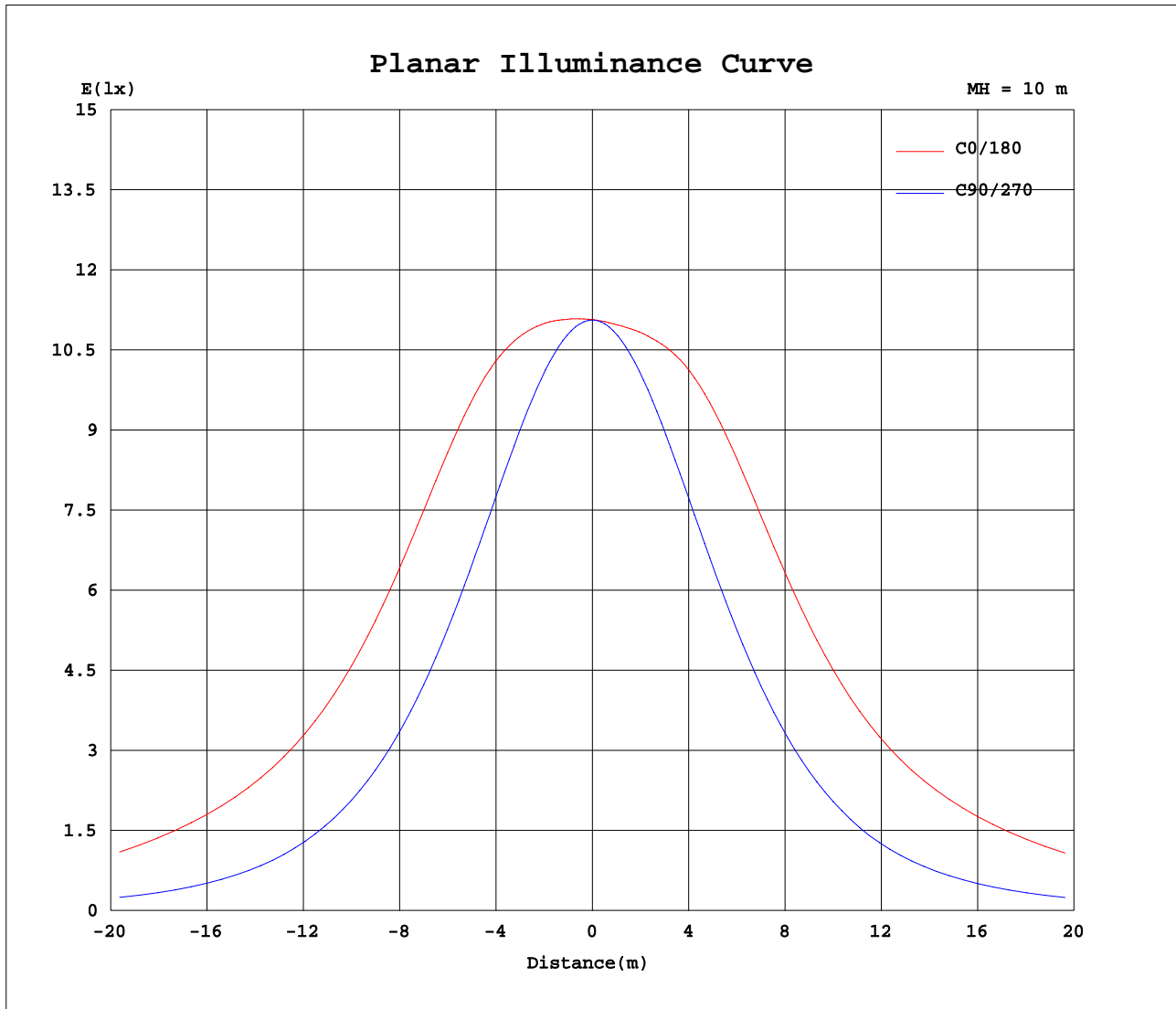
AvgL	cd/m2
L_0~180(65)av	122465
L_0~180(75)av	135763
L_0~180(85)av	46055
L_90~270(65)av	25340
L_90~270(75)av	20289
L_90~270(85)av	16702
L_45(65)av	89907
L_45(75)av	114629
L_45(85)av	111555

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

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: 2025-08-20

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:

```

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:

```