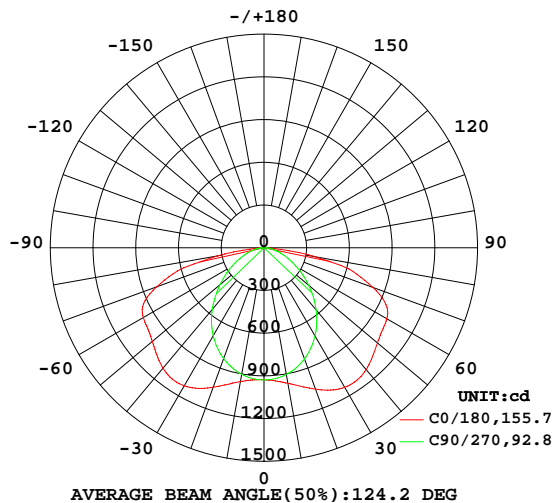


LUMINAIRE PHOTOMETRIC TEST REPORT

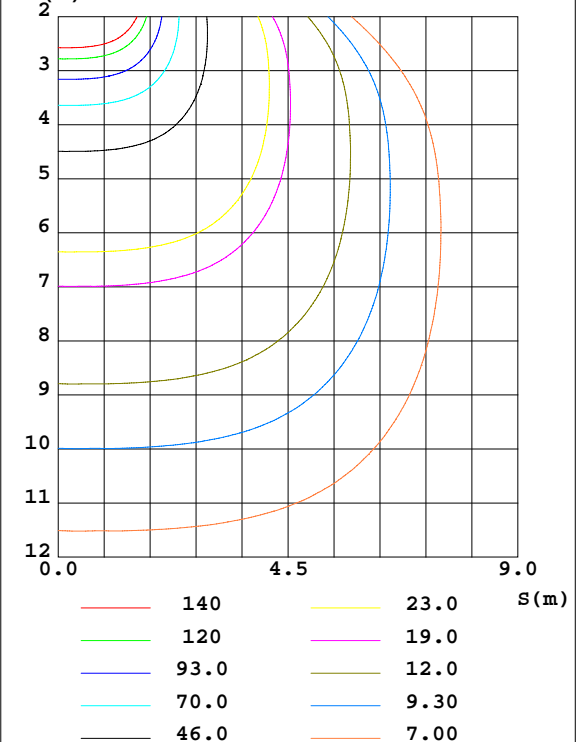
Test:U:229.63V I:0.2088A P:47.664W PF:0.9941 Freq:49.99Hz Lamp Flux:3878.63x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*77	SERIAL No.:
MFR.:	SUR.:1.00*0.021	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.37 lm/W			
MODEL		Imax(cd)	1138	S/MH(C0/180)	1.76
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	1.15
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	3878.6	η UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	3878.63	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:

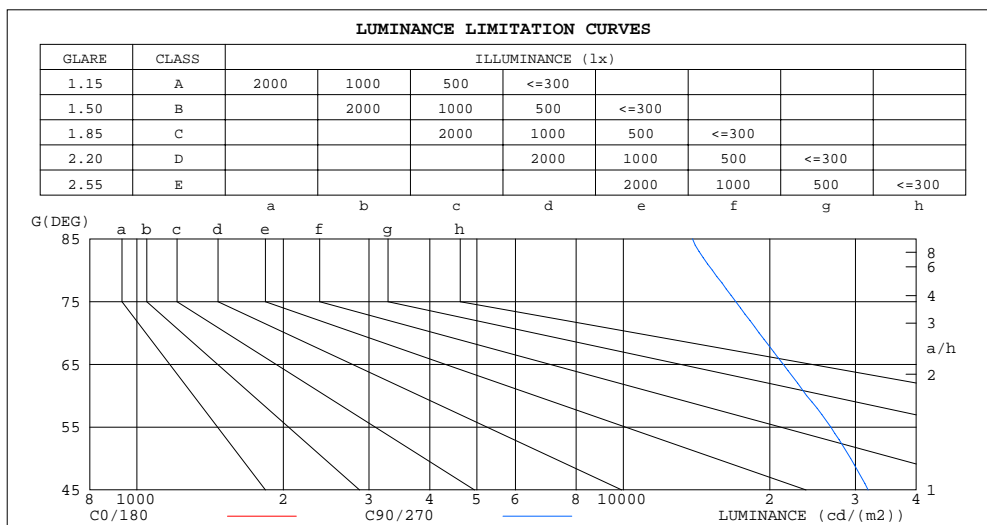
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	966.7	937.0	904.1	927.6	954.4	925.4	902.6	936.9	0- 10	88.77	88.77	2.29,2.29
20	1056	951.5	831.1	938.8	1042	931.3	828.5	951.5	10- 20	265.6	354.4	9.14,9.14
30	1132	966.9	716.2	956.9	1120	942.7	713.6	966.8	20- 30	436.0	790.4	20.4,20.4
40	1116	962.7	570.4	956.0	1104	937.0	565.7	961.0	30- 40	576.0	1366	35.2,35.2
50	1041	905.8	411.1	899.8	1024	877.9	403.1	900.7	40- 50	651.9	2018	52,52
60	996.4	785.3	259.5	775.4	979.2	750.1	258.3	772.5	50- 60	659.4	2678	69,69
70	813.2	637.9	141.8	624.1	801.9	590.9	142.0	621.1	60- 70	611.4	3289	84.8,84.8
80	367.0	444.0	57.67	440.2	333.8	420.0	58.07	435.0	70- 80	453.1	3742	96.5,96.5
90	5.447	7.766	4.502	4.485	6.332	5.799	4.957	8.709	80- 90	136.4	3879	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:229.63V I:0.2088A P:47.664W PF:0.9941 Freq:49.99Hz Lamp Flux:3878.63x1 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	42089	13879
80	96938	15235
75	115057	17021
70	109066	19018
65	102616	21317
60	91411	23805
55	81071	26692
50	74259	29338
45	69981	31855

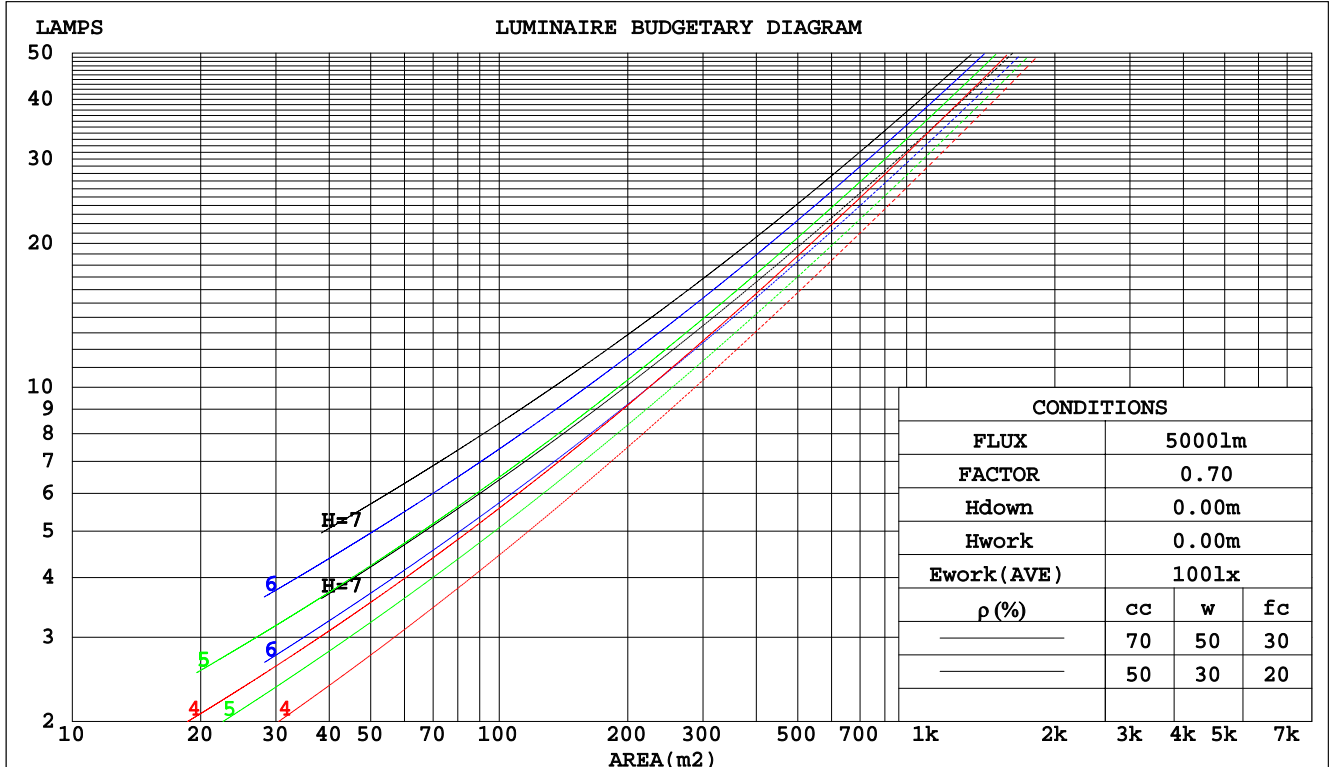
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

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:229.63V I:0.2088A P:47.664W PF:0.9941 Freq:49.99Hz Lamp Flux:3878.63x1 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	.92	.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	.68	.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	.55	.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	.39	.33	.31
7.0	.46	.37	.30	.45	.36	.30	.44	.36	.30	.42	.35	.30	.41	.34	.29	.27
8.0	.42	.33	.27	.41	.33	.26	.40	.32	.26	.39	.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:229.63V I:0.2088A P:47.664W PF:0.9941 Freq:49.99Hz Lamp Flux:3878.63x1 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	.363	.206	.065	.356	.203	.064	.342	.196	.063	.330	.190	.061	.318	.185	.059	
2.0	.333	.182	.056	.326	.180	.055	.314	.175	.054	.303	.170	.053	.293	.166	.052	
3.0	.302	.161	.048	.296	.159	.048	.286	.155	.047	.276	.151	.046	.266	.147	.046	
4.0	.274	.143	.042	.269	.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	.222	.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	.100	.029	.190	.099	.029	
8.0	.197	.096	.027	.194	.096	.027	.188	.094	.027	.182	.092	.027	.177	.091	.026	
9.0	.184	.089	.025	.181	.088	.025	.176	.087	.025	.171	.085	.024	.166	.084	.024	
10.0	.172	.083	.023	.170	.082	.023	.165	.081	.023	.160	.079	.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	.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	.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:229.63V I:0.2088A P:47.664W PF:0.9941 Freq:49.99Hz Lamp Flux:3878.63x1 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	29.4	31.1	29.7	31.3	31.5	24.5	26.1	24.8	26.4	26.6	
	3H	32.2	33.7	32.5	34.0	34.2	25.4	26.9	25.7	27.2	27.4
	4H	33.4	34.8	33.7	35.1	35.4	25.7	27.2	26.1	27.5	27.7
	6H	34.1	35.5	34.5	35.8	36.1	25.9	27.3	26.3	27.6	27.9
	8H	34.3	35.7	34.7	36.0	36.3	26.0	27.4	26.4	27.6	27.9
	12H	34.3	35.7	34.7	36.0	36.3	26.0	27.3	26.4	27.6	27.9
4H	2H	30.0	31.5	30.3	31.7	32.0	26.8	28.2	27.1	28.5	28.8
	3H	33.0	34.3	33.4	34.6	34.9	28.0	29.3	28.4	29.6	29.9
	4H	34.4	35.6	34.8	35.9	36.3	28.4	29.6	28.8	30.0	30.3
	6H	35.4	36.5	35.8	36.8	37.2	28.7	29.8	29.1	30.1	30.5
	8H	35.6	36.6	36.0	37.0	37.4	28.8	29.8	29.2	30.1	30.5
	12H	35.7	36.6	36.1	37.0	37.4	28.8	29.7	29.2	30.1	30.5
8H	4H	34.7	35.7	35.2	36.1	36.5	30.3	31.3	30.7	31.7	32.1
	6H	35.9	36.8	36.4	37.2	37.6	30.9	31.8	31.4	32.2	32.6
	8H	36.3	37.1	36.8	37.5	38.0	31.1	31.8	31.6	32.3	32.7
	12H	36.5	37.1	37.0	37.6	38.1	31.2	31.8	31.7	32.3	32.8
12H	4H	34.7	35.7	35.2	36.1	36.5	30.6	31.6	31.1	31.9	32.4
	6H	36.0	36.8	36.5	37.2	37.7	31.6	32.3	32.0	32.8	33.2
	8H	36.5	37.1	37.0	37.6	38.1	31.9	32.5	32.4	33.0	33.5
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	+ 0.3 / - 0.4					+ 0.4 / - 0.5					

CIE Pub.117, 3879 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 4.7$)

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:229.63V I:0.2088A P:47.664W PF:0.9941 Freq:49.99Hz Lamp Flux:3878.63x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*77	SERIAL No.:
MFR.:	SUR.:1.00*0.021	Shielding Angle:

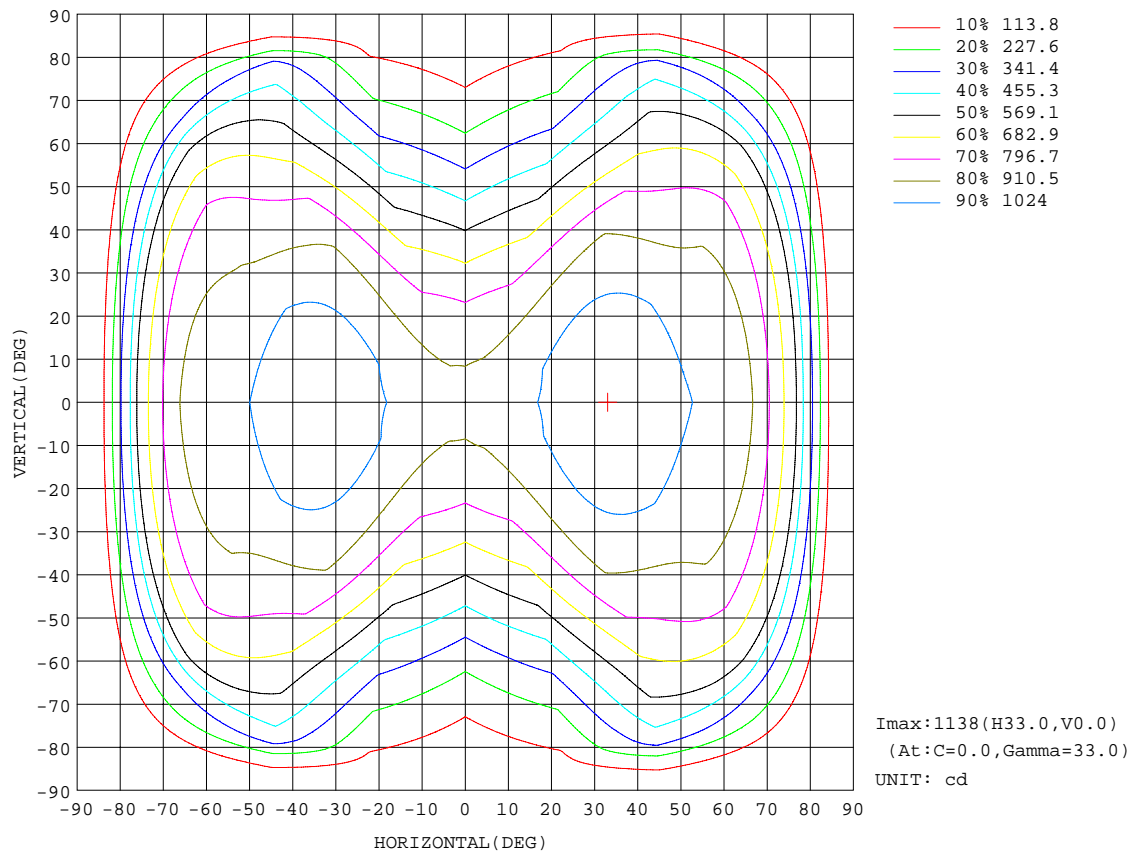
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	52	40	32	52	40	32	50	39	32	25
0.80	62	49	41	61	49	41	59	48	41	33
1.00	71	58	50	69	58	50	67	59	49	41
1.25	78	66	58	76	65	57	73	64	57	49
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	84	92	86	81	72
4.00	104	97	92	101	95	90	97	92	88	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:229.63V I:0.2088A P:47.664W PF:0.9941 Freq:49.99Hz Lamp Flux:3878.63x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*77	SERIAL No.:
MFR.:	SUR.:1.00*0.021	Shielding Angle:

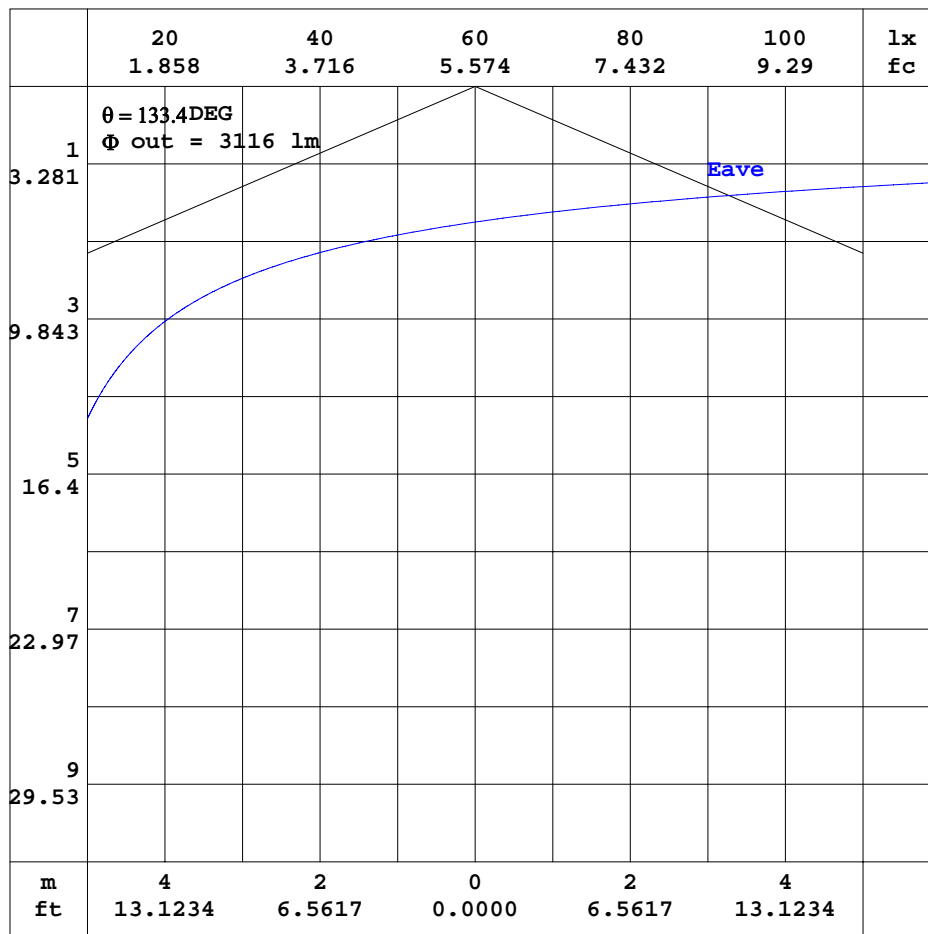


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-08-20

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:229.63V I:0.2088A P:47.664W PF:0.9941 Freq:49.99Hz Lamp Flux:3878.63x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*77	SERIAL No.:
MFR.:	SUR.:1.00*0.021	Shielding Angle:



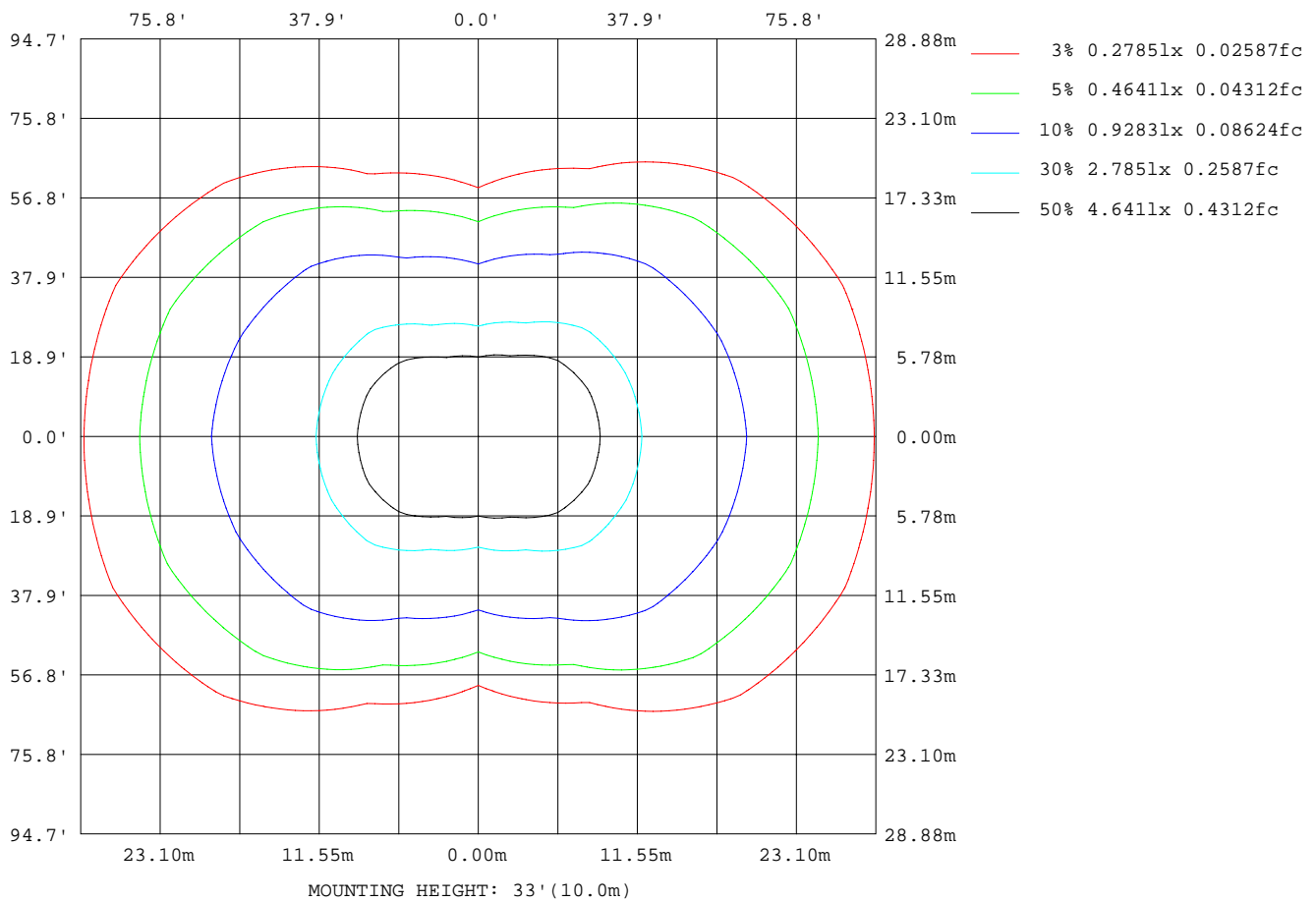
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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
 γ 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:229.63V I:0.2088A P:47.664W PF:0.9941 Freq:49.99Hz Lamp Flux:3878.63x1 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:229.63V I:0.2088A P:47.664W PF:0.9941 Freq:49.99Hz Lamp Flux:3878.63x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1285*48*77	SERIAL No.:
MFR.:	SUR.:1.00*0.021	Shielding Angle:

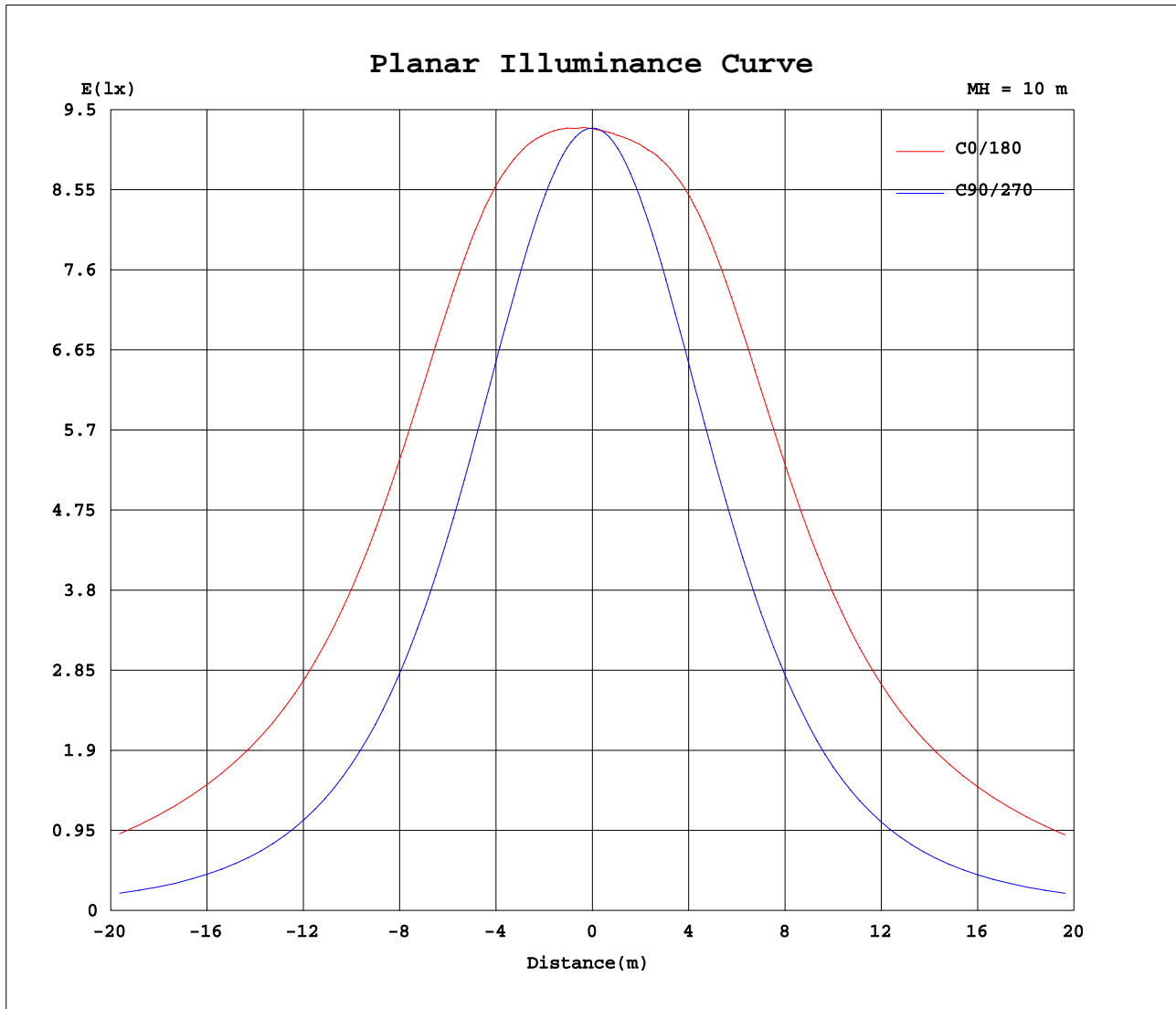
AvgL	cd/m2
L_0~180(65)av	101945
L_0~180(75)av	113315
L_0~180(85)av	37106
L_90~270(65)av	21289
L_90~270(75)av	17054
L_90~270(85)av	13996
L_45(65)av	75344
L_45(75)av	95928
L_45(85)av	92382

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:

```

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