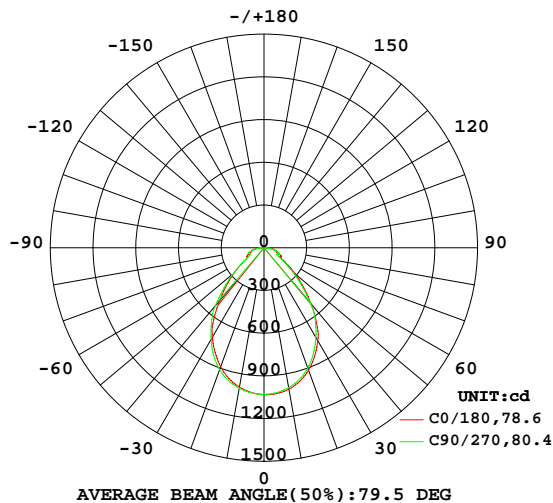


LUMINAIRE PHOTOMETRIC TEST REPORT

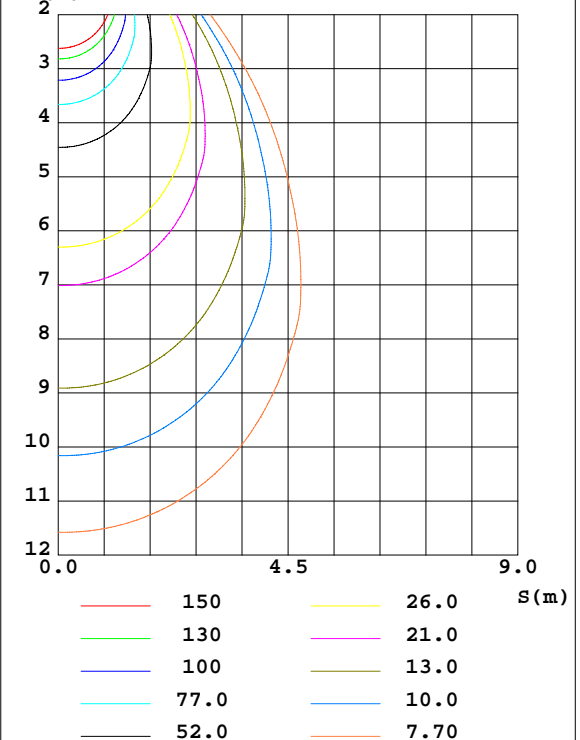
Test:U:229.61V I:0.4446A P:97.435W PF:0.9545 Freq:49.99Hz Lamp Flux:1851.98x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.: 760*240*31		SERIAL No.:	
MFR.:		SUR.:0.710*0.191		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 19.01 lm/W
MODEL		Imax(cd)	1032	S/MH(C0/180)	1.08	
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.10	
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1852.0	η UP,DN(C0-180)	0.0,49.7	
NOMINAL FLUX(lm)	1851.98	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.3	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00	
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.15	

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:2025-05-09

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:

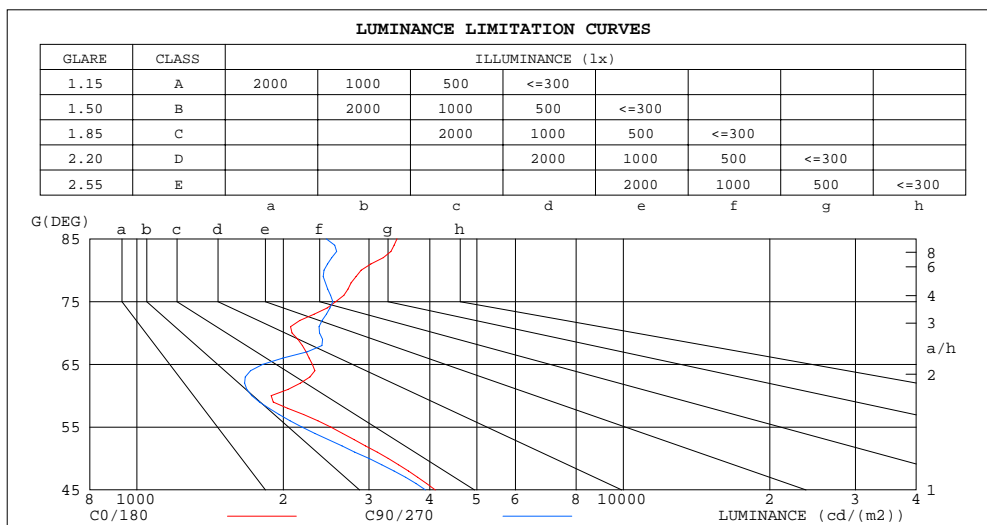
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	1008	1004	997.2	992.7	993.8	996.0	1001	1005	0- 10	96.89	96.89	5.23,5.23
20	915.8	907.8	899.8	887.7	890.2	896.8	910.5	914.1	10- 20	270.0	366.9	19.8,19.8
30	755.4	733.5	728.8	712.8	725.9	728.0	743.5	742.6	20- 30	378.5	745.3	40.2,40.2
40	513.3	524.2	510.5	505.3	483.1	521.0	532.3	532.1	30- 40	393.5	1139	61.5,61.5
50	286.3	307.7	261.5	285.4	272.8	303.5	281.1	305.9	40- 50	306.2	1445	78,78
60	128.0	109.9	116.8	93.57	130.7	115.9	128.5	108.7	50- 60	186.1	1631	88.1,88.1
70	96.61	53.95	110.1	57.93	104.9	58.37	117.4	55.41	60- 70	104.5	1736	93.7,93.7
80	68.08	58.59	57.12	57.10	71.11	66.42	62.28	55.95	70- 80	77.93	1814	97.9,97.9
90	2.930	1.443	1.057	1.143	1.976	4.459	4.682	4.493	80- 90	38.40	1852	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:2025-05-09

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:229.61V I:0.4446A P:97.435W PF:0.9545 Freq:49.99Hz Lamp Flux:1851.98x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.710*0.191	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3427	2450
80	2891	2426
75	2565	2528
70	2083	2373
65	2295	1815
60	1889	1723
55	2503	2185
50	3285	3000
45	4107	3921

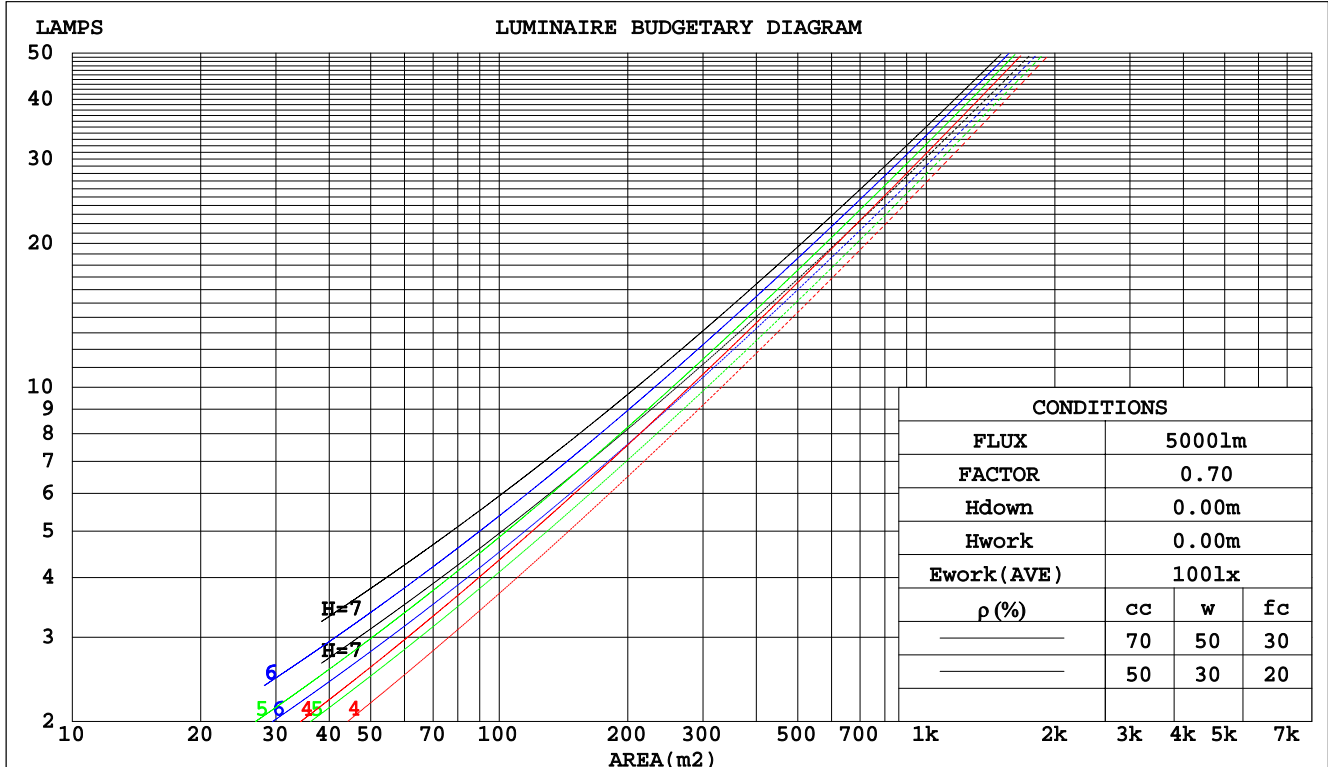
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-05-09

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:229.61V I:0.4446A P:97.435W PF:0.9545 Freq:49.99Hz Lamp Flux:1851.98x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.710*0.191	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						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	.00
1.0	1.06	1.02	.99	1.04	1.01	.97	.00	.97	.94	.96	.94	.92	.92	.91	.89	.87
2.0	.95	.89	.84	.93	.88	.83	.90	.85	.81	.86	.83	.79	.84	.80	.78	.76
3.0	.85	.78	.73	.84	.77	.72	.81	.75	.71	.78	.74	.70	.76	.72	.68	.67
4.0	.77	.70	.64	.76	.69	.63	.74	.67	.62	.71	.66	.62	.69	.65	.61	.59
5.0	.70	.62	.56	.69	.62	.56	.67	.61	.56	.65	.60	.55	.64	.59	.55	.53
6.0	.64	.56	.51	.63	.56	.50	.62	.55	.50	.60	.54	.50	.59	.53	.49	.47
7.0	.59	.51	.46	.58	.51	.45	.57	.50	.45	.55	.49	.45	.54	.49	.45	.43
8.0	.54	.47	.41	.54	.46	.41	.53	.46	.41	.51	.45	.41	.50	.45	.41	.39
9.0	.50	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.37	.47	.41	.37	.36
10.0	.47	.40	.35	.46	.39	.35	.45	.39	.35	.45	.39	.35	.44	.38	.34	.33



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-05-09

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:229.61V I:0.4446A P:97.435W PF:0.9545 Freq:49.99Hz Lamp Flux:1851.98x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 760*240*31			SERIAL No.:		
MFR.:			SUR.:0.710*0.191			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	.267	.152	.048	.260	.148	.047	.247	.142	.045	.235	.135	.043	.224	.130	.042	
2.0	.249	.136	.042	.243	.134	.041	.232	.129	.040	.221	.124	.039	.212	.120	.038	
3.0	.232	.123	.037	.226	.121	.036	.216	.117	.036	.207	.114	.035	.199	.110	.034	
4.0	.216	.112	.033	.211	.110	.033	.202	.107	.032	.194	.104	.031	.187	.102	.031	
5.0	.201	.103	.030	.197	.101	.030	.190	.099	.029	.183	.096	.029	.176	.094	.028	
6.0	.189	.095	.027	.185	.093	.027	.178	.091	.027	.172	.089	.026	.166	.087	.026	
7.0	.177	.088	.025	.174	.087	.025	.168	.085	.024	.162	.083	.024	.157	.082	.024	
8.0	.167	.082	.023	.164	.081	.023	.159	.079	.023	.154	.078	.022	.149	.076	.022	
9.0	.158	.076	.021	.155	.076	.021	.150	.074	.021	.146	.073	.021	.141	.072	.021	
10.0	.149	.072	.020	.147	.071	.020	.143	.070	.020	.138	.069	.020	.134	.068	.019	

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	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.167	.132	.103	.143	.114	.089	.098	.079	.062	.056	.046	.036	.018	.015	.012	
3.0	.157	.114	.080	.135	.098	.069	.092	.068	.048	.053	.040	.029	.017	.013	.009	
4.0	.149	.100	.063	.128	.087	.055	.088	.060	.039	.051	.035	.023	.016	.012	.008	
5.0	.141	.089	.051	.121	.077	.045	.083	.054	.032	.048	.032	.019	.016	.010	.006	
6.0	.134	.081	.043	.115	.070	.037	.079	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.109	.064	.032	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.059	.024	.095	.051	.021	.066	.036	.015	.039	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-09

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:229.61V I:0.4446A P:97.435W PF:0.9545 Freq:49.99Hz Lamp Flux:1851.98x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 760*240*31			SERIAL No.:			
MFR.:					SUR.:0.710*0.191			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	15.5	16.8	15.8	17.0	17.2	15.3	16.6	15.6	16.8	17.0
	3H	16.4	17.6	16.7	17.8	18.0	16.3	17.5	16.5	17.7	17.9
	4H	17.0	18.1	17.3	18.4	18.6	16.9	18.0	17.2	18.3	18.5
	6H	17.7	18.8	18.1	19.1	19.4	17.5	18.6	17.8	18.8	19.1
	8H	18.1	19.2	18.5	19.4	19.7	17.7	18.8	18.1	19.1	19.3
	12H	18.5	19.5	18.8	19.7	20.0	17.9	18.9	18.3	19.2	19.5
4H	2H	15.5	16.7	15.8	16.9	17.2	15.4	16.5	15.7	16.8	17.0
	3H	16.6	17.6	17.0	17.9	18.2	16.5	17.5	16.8	17.8	18.1
	4H	17.4	18.4	17.8	18.7	19.0	17.3	18.2	17.6	18.5	18.8
	6H	18.5	19.3	18.9	19.6	20.0	18.2	19.0	18.6	19.3	19.7
	8H	19.0	19.7	19.4	20.1	20.5	18.6	19.3	19.0	19.7	20.1
	12H	19.4	20.1	19.9	20.5	20.9	18.8	19.5	19.3	19.9	20.3
8H	4H	17.7	18.4	18.1	18.8	19.2	17.5	18.3	17.9	18.6	19.0
	6H	19.0	19.6	19.4	20.0	20.4	18.7	19.3	19.1	19.7	20.1
	8H	19.6	20.1	20.0	20.6	21.0	19.2	19.7	19.6	20.2	20.6
	12H	20.2	20.7	20.6	21.1	21.6	19.6	20.0	20.0	20.5	21.0
12H	4H	17.7	18.4	18.1	18.8	19.2	17.6	18.3	18.0	18.6	19.0
	6H	19.1	19.6	19.5	20.0	20.5	18.8	19.4	19.3	19.8	20.2
	8H	19.7	20.2	20.2	20.7	21.1	19.4	19.8	19.8	20.3	20.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.4					+ 0.3 / - 0.5					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.5					
2.0H	+ 0.7 / - 0.5					+ 0.8 / - 0.8					

CIE Pub.117, 1852 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.1$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-05-09

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:229.61V I:0.4446A P:97.435W PF:0.9545 Freq:49.99Hz Lamp Flux:1851.98x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.710*0.191	Shielding Angle:

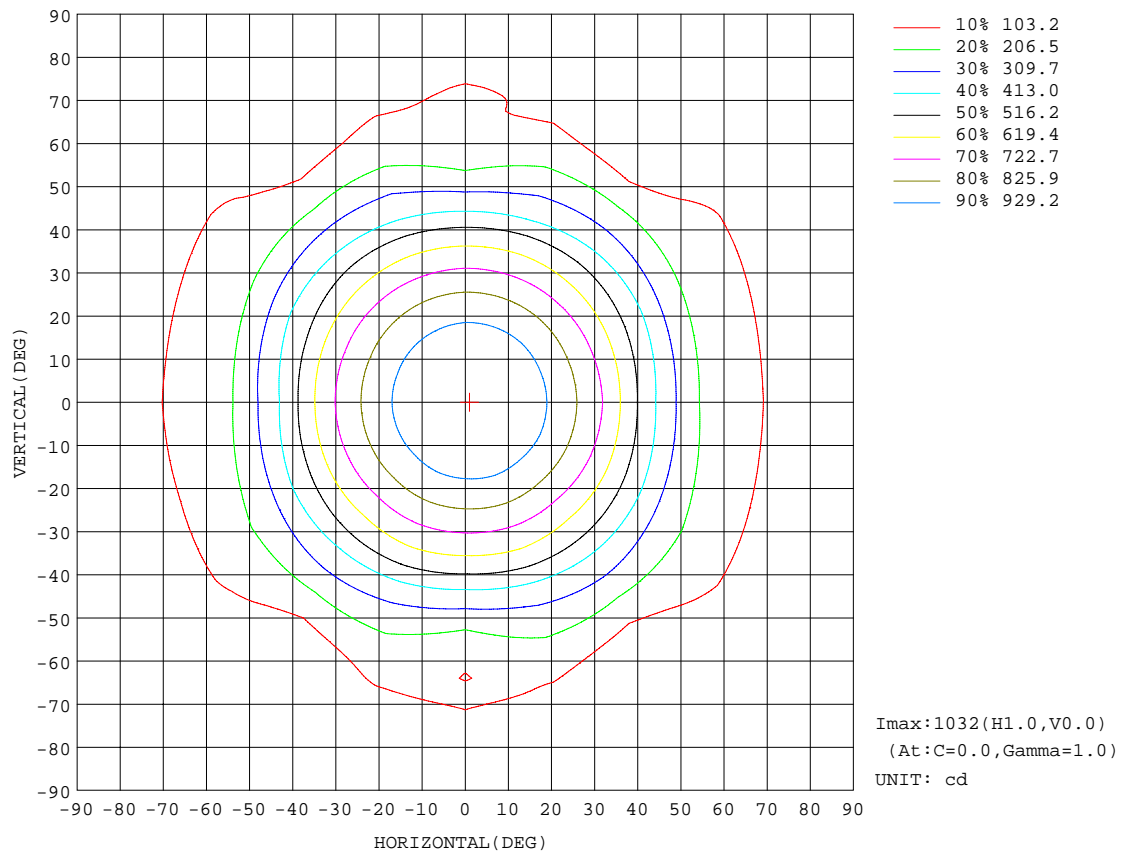
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	68	58	52	67	58	52	66	57	52	46
0.80	77	67	61	76	67	61	75	66	61	55
1.00	84	75	69	83	75	69	81	76	69	63
1.25	91	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	81	90	84	80	73
2.00	100	93	88	98	92	87	95	90	86	79
2.50	103	97	92	101	95	91	98	93	89	81
3.00	106	100	95	104	98	94	100	96	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	107	103	108	105	102	104	101	99	90
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:2025-05-09

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:229.61V I:0.4446A P:97.435W PF:0.9545 Freq:49.99Hz Lamp Flux:1851.98x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.710*0.191	Shielding Angle:

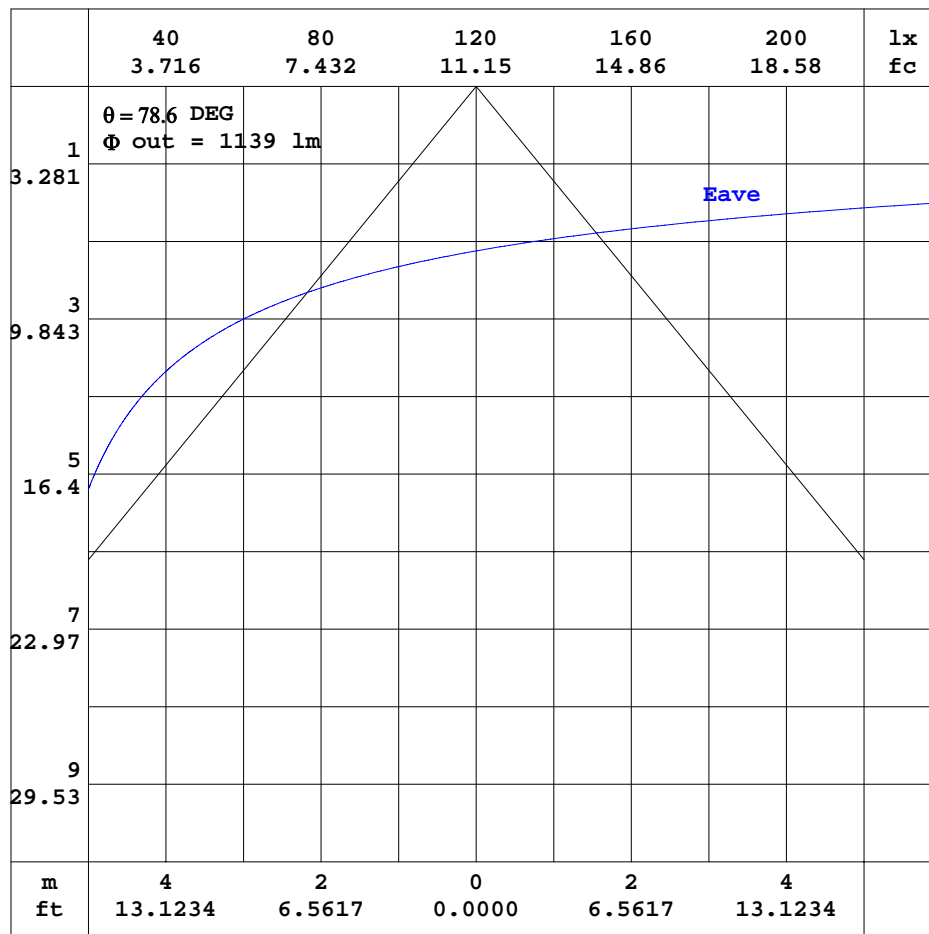


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-05-09

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:229.61V I:0.4446A P:97.435W PF:0.9545 Freq:49.99Hz Lamp Flux:1851.98x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.710*0.191	Shielding Angle:



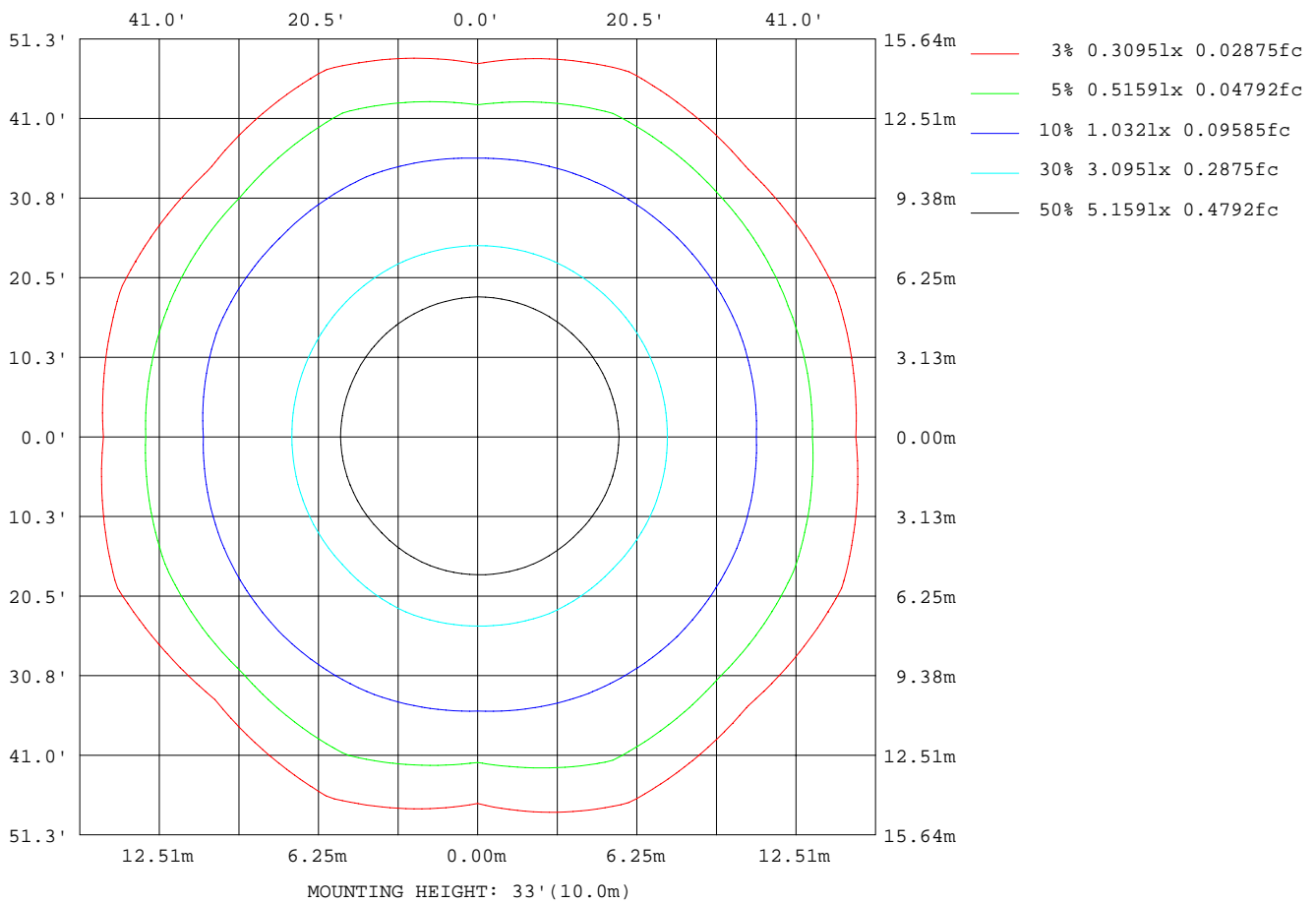
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2025-05-09

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:229.61V I:0.4446A P:97.435W PF:0.9545 Freq:49.99Hz Lamp Flux:1851.98x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.710*0.191	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-05-09

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:229.61V I:0.4446A P:97.435W PF:0.9545 Freq:49.99Hz Lamp Flux:1851.98x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 760*240*31	SERIAL No.:
MFR.:	SUR.:0.710*0.191	Shielding Angle:

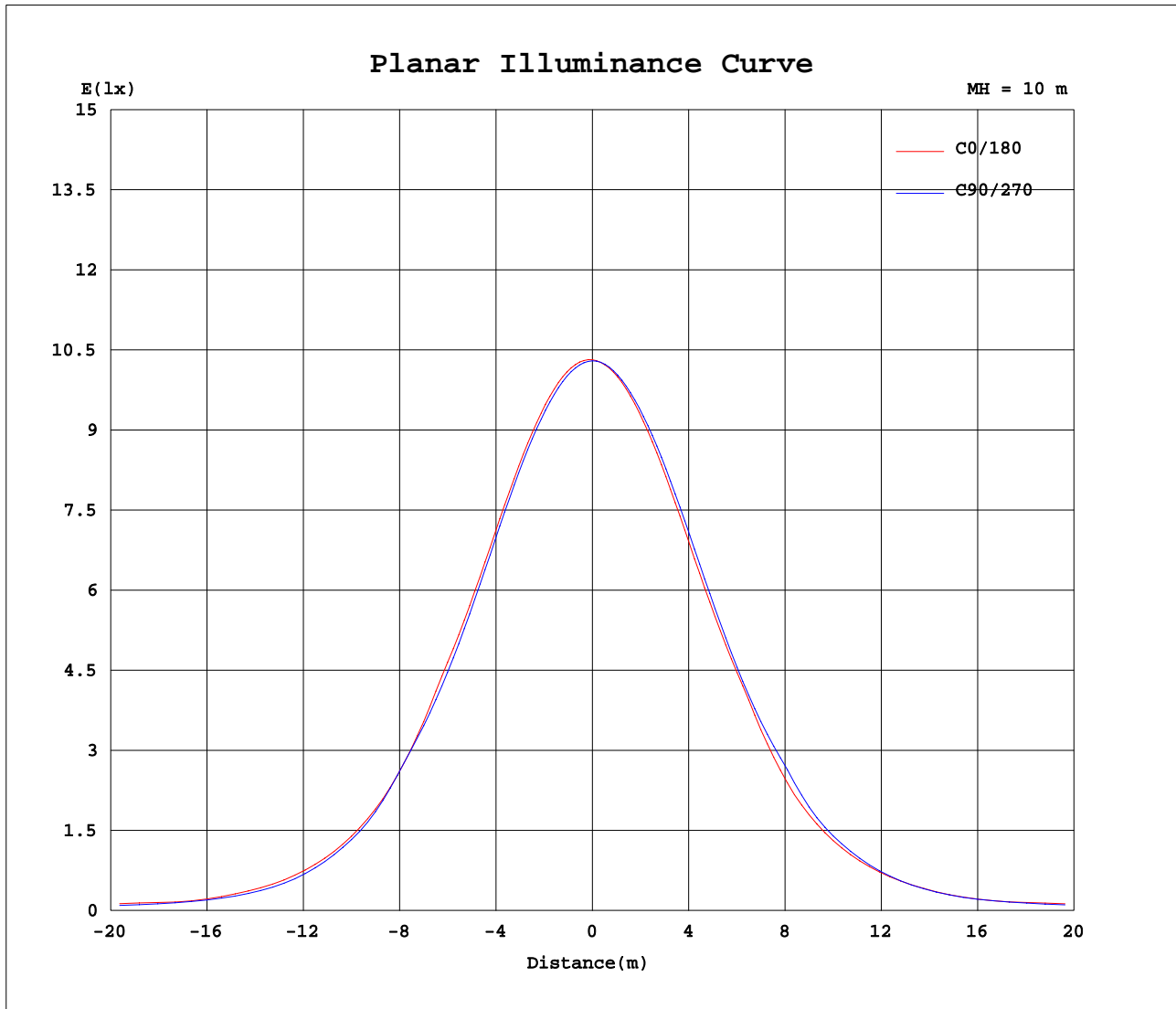
AvgL	cd/m2
L_0~180(65)av	2263
L_0~180(75)av	2568
L_0~180(85)av	3305
L_90~270(65)av	1855
L_90~270(75)av	2597
L_90~270(85)av	2951
L_45(65)av	959
L_45(75)av	1815
L_45(85)av	2677

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-05-09

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: 2025-05-09

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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