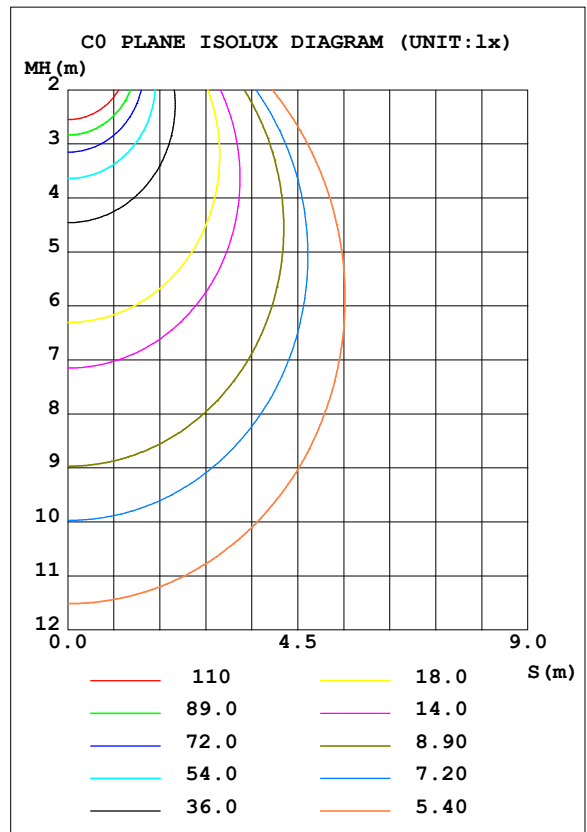
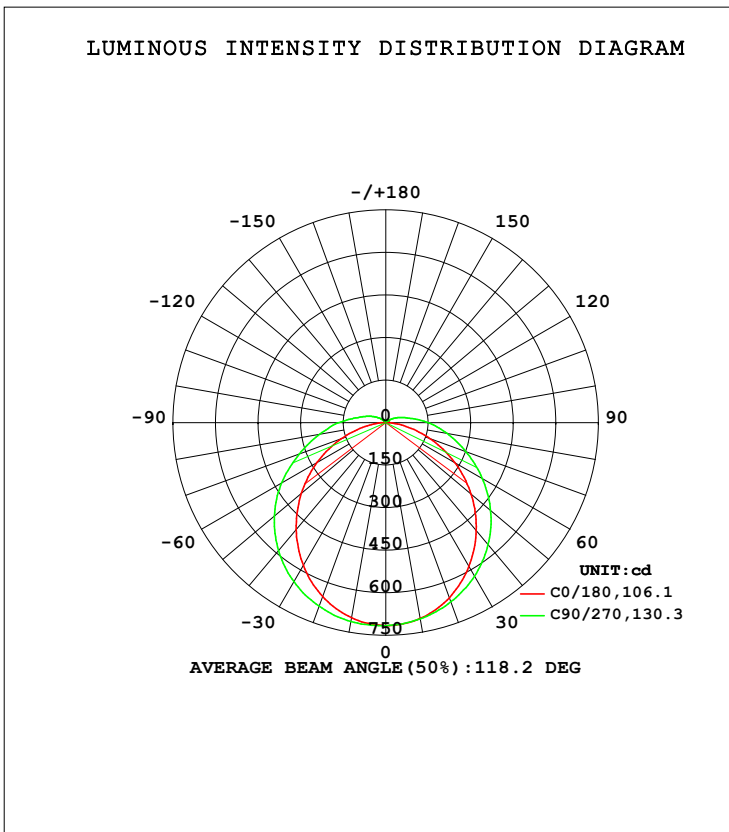


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:222.65V I:0.0860A P:18.672W PF:0.9756 Freq:49.99Hz Lamp Flux:2441.92x1 lm		
NAME: 20W	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*80*74	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.78 lm/W			
MODEL	20W	Imax (cd)	716.0	S/MH (C0/180)	1.22
NOMINAL POWER (W)	20	LOR (%)	100.0	S/MH (C90/270)	1.35
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2441.9	η UP, DN (C0-180)	3.4, 45.6
NOMINAL FLUX (lm)	2441.92	CIE CLASS	DIRECT	η UP, DN (C180-360)	3.9, 47.0
LAMPS INSIDE	1	η up (%)	7.4	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	220	η down (%)	92.6	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2025-08-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 14.600m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

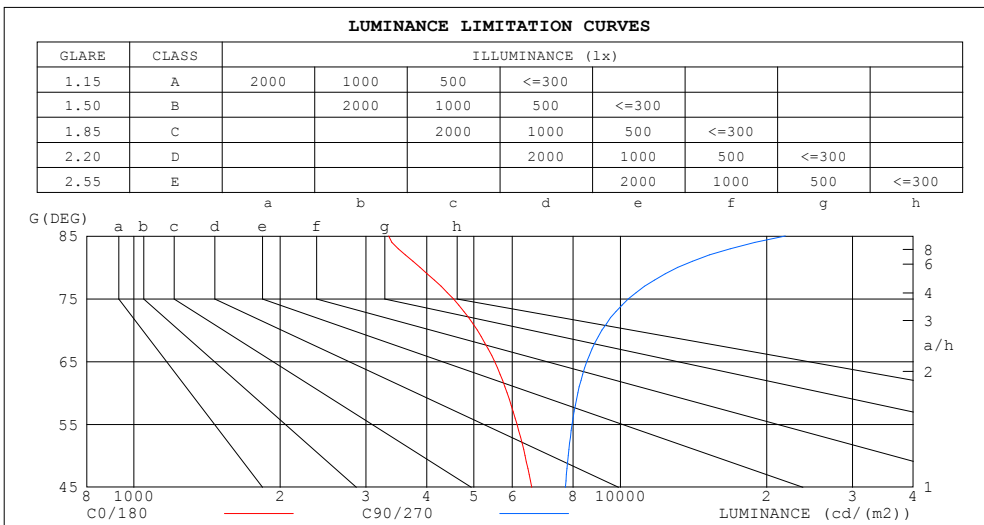
γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum,lamp
10	700.9	702.4	698.0	711.4				0- 10	67.71	67.71	2.77,2.77
20	656.5	672.0	652.2	688.8				10- 20	194.3	262.0	10.7,10.7
30	586.3	625.6	581.4	647.3				20- 30	295.7	557.6	22.8,22.8
40	496.5	561.3	491.4	588.4				30- 40	359.5	917.2	37.6,37.6
50	393.0	482.9	388.8	513.4				40- 50	378.8	1296	53.1,53.1
60	280.8	392.9	278.8	423.6				50- 60	353.4	1649	67.5,67.5
70	166.7	301.2	167.1	324.5				60- 70	288.8	1938	79.4,79.4
80	64.61	218.8	66.64	236.6				70- 80	202.4	2141	87.7,87.7
90	9.065	149.8	9.005	165.9				80- 90	121.8	2262	92.6,92.6
100	7.483	89.33	6.978	103.5				90-100	72.75	2335	95.6,95.6
110	7.331	54.88	7.193	67.04				100-110	44.80	2380	97.5,97.5
120	7.331	29.84	7.377	40.07				110-120	27.25	2407	98.6,98.6
130	7.392	12.26	7.713	19.23				120-130	14.54	2422	99.2,99.2
140	7.621	8.749	7.973	8.950				130-140	7.231	2429	99.5,99.5
150	7.988	8.994	8.448	9.177				140-150	5.320	2434	99.7,99.7
160	8.738	9.117	9.183	9.345				150-160	4.108	2438	99.9,99.9
170	9.365	9.362	9.656	9.423				160-170	2.628	2441	100,100
180	9.687	9.545	9.702	9.499				170-180	0.9090	2442	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:14.600m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:222.65V I:0.0860A P:18.672W PF:0.9756 Freq:49.99Hz Lamp Flux:2441.92x1 lm		
NAME: 20W	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*80*74	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3343	21851
80	3878	13117
75	4536	10400
70	5080	9167
65	5513	8535
60	5854	8181
55	6135	7966
50	6372	7821
45	6579	7715

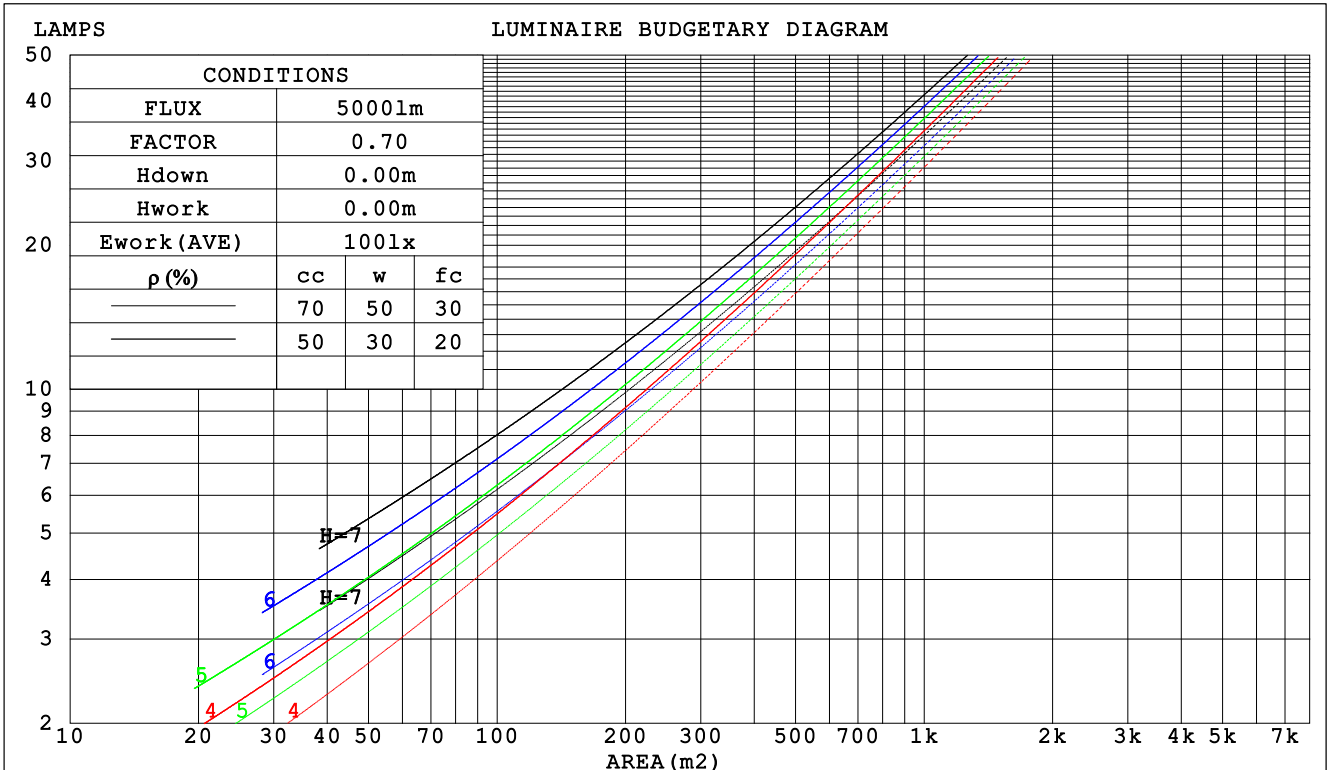
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:14.600m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:222.65V I:0.0860A P:18.672W PF:0.9756 Freq:49.99Hz Lamp Flux:2441.92x1 lm		
NAME: 20W	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*80*74	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															
	Coefficients of Utilization(CU)															
0.0	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.95	.95	.95	.93
1.0	1.00	.95	.91	.97	.93	.89	.91	.88	.84	.86	.83	.80	.81	.79	.77	.74
2.0	.86	.79	.73	.84	.77	.71	.79	.73	.68	.75	.70	.66	.70	.67	.63	.61
3.0	.75	.67	.60	.73	.65	.59	.69	.62	.57	.65	.60	.55	.62	.57	.53	.50
4.0	.67	.57	.50	.65	.56	.50	.61	.54	.48	.58	.52	.47	.55	.50	.45	.43
5.0	.59	.50	.43	.58	.49	.43	.55	.47	.41	.52	.45	.40	.49	.44	.39	.37
6.0	.53	.44	.37	.52	.43	.37	.49	.42	.36	.47	.40	.35	.45	.39	.34	.32
7.0	.48	.39	.33	.47	.39	.33	.45	.37	.32	.43	.36	.31	.41	.35	.30	.28
8.0	.44	.35	.29	.43	.35	.29	.41	.34	.28	.39	.33	.28	.37	.31	.27	.25
9.0	.40	.32	.26	.39	.31	.26	.38	.30	.25	.36	.30	.25	.34	.29	.24	.22
10.0	.37	.29	.24	.36	.29	.23	.35	.28	.23	.33	.27	.23	.32	.26	.22	.20



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:14.600m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:222.65V I:0.0860A P:18.672W PF:0.9756 Freq:49.99Hz Lamp Flux:2441.92x1 lm		
NAME: 20W	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*80*74	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.350	.199	.063	.341	.194	.062	.323	.185	.059	.307	.177	.057	.292	.169	.055	
2.0	.314	.172	.053	.305	.168	.052	.290	.161	.050	.275	.154	.048	.262	.148	.047	
3.0	.284	.151	.045	.276	.148	.045	.262	.142	.043	.249	.137	.042	.237	.131	.041	
4.0	.259	.134	.039	.252	.132	.039	.239	.127	.038	.227	.122	.037	.216	.118	.036	
5.0	.237	.121	.035	.231	.118	.035	.219	.114	.034	.209	.110	.033	.199	.106	.032	
6.0	.218	.109	.031	.213	.108	.031	.203	.104	.030	.193	.100	.029	.184	.097	.029	
7.0	.202	.100	.028	.197	.098	.028	.188	.095	.027	.179	.092	.027	.171	.089	.026	
8.0	.188	.092	.026	.184	.090	.026	.175	.088	.025	.167	.085	.024	.160	.082	.024	
9.0	.176	.085	.024	.172	.084	.023	.164	.081	.023	.157	.079	.023	.150	.076	.022	
10.0	.165	.079	.022	.161	.078	.022	.154	.076	.021	.148	.073	.021	.141	.071	.020	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.246	.246	.246	.211	.211	.211	.144	.144	.144	.083	.083	.083	.026	.026	.026	
1.0	.240	.212	.188	.205	.182	.162	.140	.125	.112	.081	.073	.065	.026	.023	.021	
2.0	.232	.189	.152	.199	.162	.132	.136	.112	.092	.079	.065	.054	.025	.021	.018	
3.0	.224	.172	.129	.192	.148	.112	.132	.103	.079	.076	.060	.046	.025	.019	.015	
4.0	.217	.159	.114	.186	.137	.099	.128	.096	.070	.074	.056	.041	.024	.018	.014	
5.0	.209	.148	.104	.179	.128	.090	.124	.090	.064	.072	.053	.038	.023	.017	.012	
6.0	.202	.140	.096	.173	.121	.084	.120	.085	.059	.069	.050	.035	.022	.016	.012	
7.0	.195	.133	.091	.167	.116	.079	.116	.081	.056	.067	.048	.033	.022	.016	.011	
8.0	.188	.128	.086	.162	.111	.075	.112	.078	.053	.065	.046	.032	.021	.015	.011	
9.0	.182	.123	.083	.157	.107	.073	.109	.075	.051	.063	.044	.031	.020	.015	.010	
10.0	.176	.119	.081	.152	.103	.070	.105	.073	.050	.061	.043	.030	.020	.014	.010	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:14.600m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:222.65V I:0.0860A P:18.672W PF:0.9756 Freq:49.99Hz Lamp Flux:2441.92x1 lm										
NAME: 20W					TYPE:			WEIGHT:		
SPEC.:					DIM.: 1200*80*74			SERIAL No.:		
MFR.: EVERFINE					SUR.:			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	15.4	16.9	15.8	17.2	17.6	16.6	18.0	16.9	18.4	18.7
3H	16.8	18.2	17.2	18.5	18.9	18.7	20.0	19.1	20.4	20.8
4H	17.4	18.6	17.8	19.0	19.4	19.8	21.1	20.2	21.5	21.9
6H	17.7	18.9	18.2	19.3	19.8	21.0	22.2	21.4	22.6	23.1
8H	17.8	19.0	18.3	19.4	19.9	21.7	22.8	22.1	23.2	23.7
12H	17.9	19.0	18.3	19.4	19.9	22.4	23.5	22.9	24.0	24.4
4H 2H	16.2	17.5	16.6	17.9	18.3	17.1	18.4	17.5	18.8	19.2
3H	17.9	19.0	18.3	19.4	19.9	19.4	20.5	19.9	21.0	21.4
4H	18.5	19.6	19.0	20.0	20.5	20.7	21.7	21.2	22.2	22.7
6H	19.1	20.0	19.6	20.5	21.0	22.1	23.0	22.6	23.5	24.0
8H	19.3	20.1	19.8	20.6	21.2	22.8	23.7	23.4	24.2	24.7
12H	19.4	20.2	19.9	20.7	21.3	23.7	24.5	24.3	25.0	25.6
8H 4H	19.1	20.0	19.6	20.5	21.0	20.9	21.8	21.5	22.3	22.8
6H	19.9	20.6	20.5	21.2	21.8	22.5	23.3	23.1	23.8	24.4
8H	20.2	20.9	20.8	21.4	22.0	23.5	24.1	24.1	24.7	25.3
12H	20.5	21.1	21.1	21.6	22.3	24.6	25.2	25.2	25.8	26.4
12H 4H	19.3	20.1	19.8	20.6	21.1	20.9	21.7	21.5	22.3	22.8
6H	20.2	20.8	20.8	21.4	22.0	22.6	23.3	23.2	23.8	24.4
8H	20.6	21.2	21.2	21.8	22.4	23.7	24.2	24.2	24.8	25.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 2442 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.1)
 Area: 0.096 m2

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:14.600m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:222.65V I:0.0860A P:18.672W PF:0.9756 Freq:49.99Hz Lamp Flux:2441.92x1 lm		
NAME: 20W	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*80*74	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

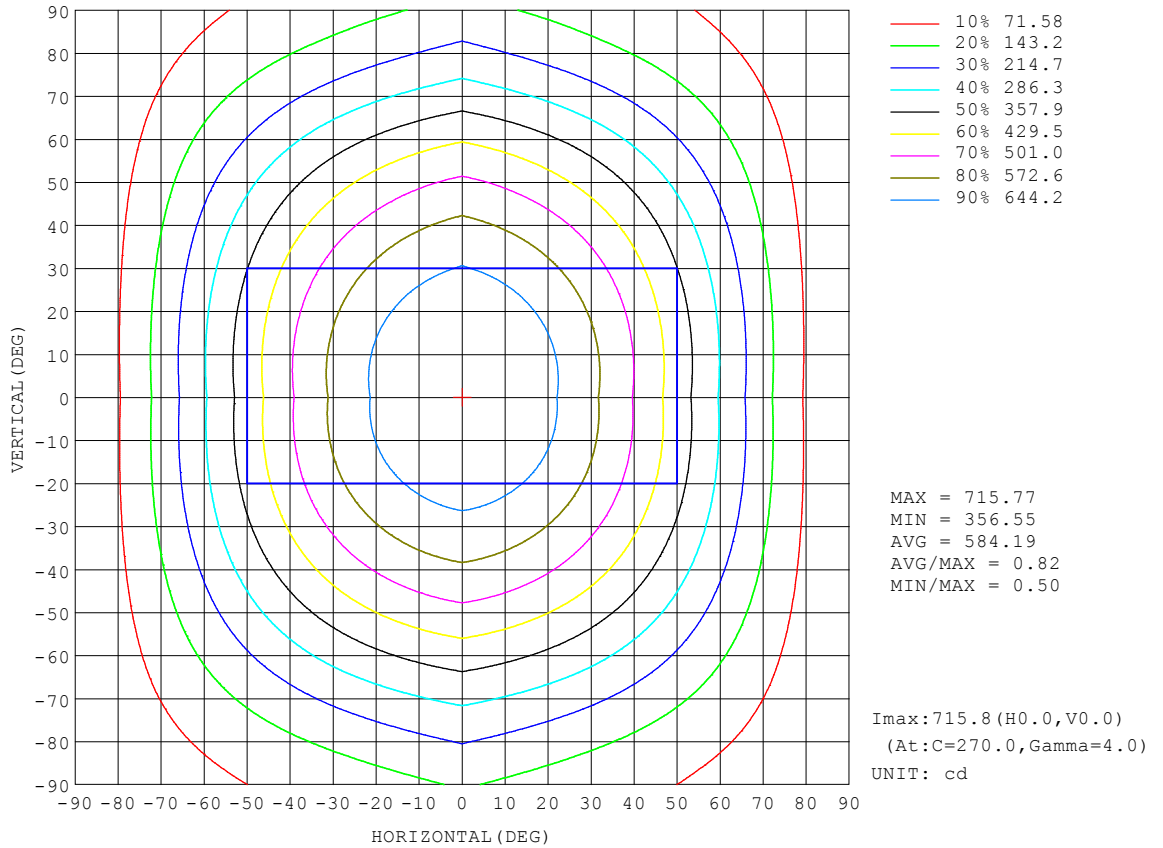
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	52	41	34	51	40	34	27
0.80	63	51	43	62	50	43	59	49	42	35
1.00	71	59	51	69	58	51	67	59	50	42
1.25	78	66	58	76	65	58	73	64	57	49
1.50	83	72	64	81	71	63	77	68	62	53
2.00	90	80	73	88	79	72	83	76	70	60
2.50	94	85	78	92	83	77	87	80	74	64
3.00	98	90	83	95	88	82	90	84	79	68
4.00	102	95	89	99	93	88	94	89	84	73
5.00	105	99	94	102	96	92	96	92	88	76
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:14.600m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:222.65V I:0.0860A P:18.672W PF:0.9756 Freq:49.99Hz Lamp Flux:2441.92x1 lm		
NAME: 20W	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*80*74	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

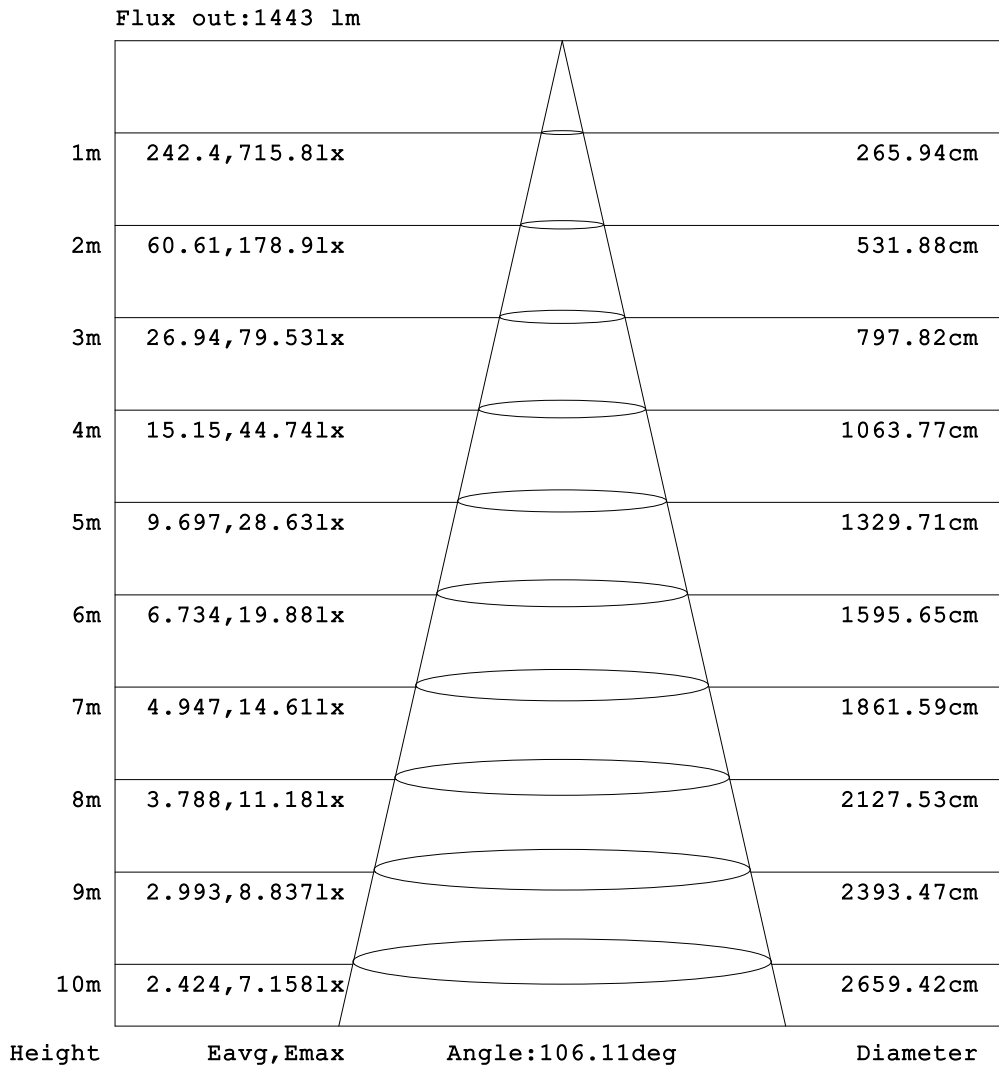


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:14.600m [K=1.0000]
 Remarks:

AAI Figure

Test:U:222.65V I:0.0860A P:18.672W PF:0.9756 Freq:49.99Hz Lamp Flux:2441.92x1 lm		
NAME: 20W	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*80*74	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



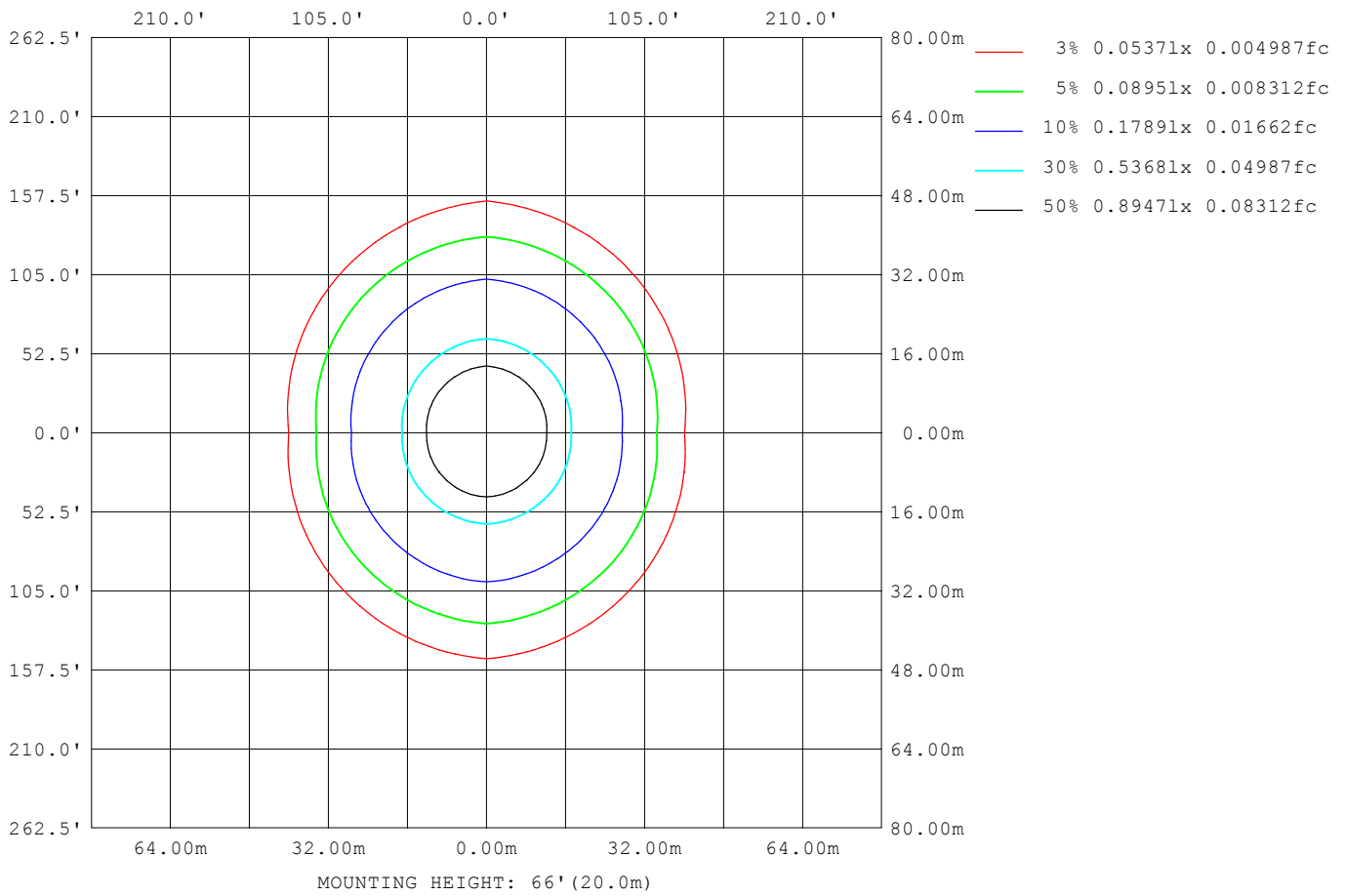
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:14.600m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:222.65V I:0.0860A P:18.672W PF:0.9756 Freq:49.99Hz Lamp Flux:2441.92x1 lm		
NAME: 20W	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*80*74	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:14.600m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:222.65V I:0.0860A P:18.672W PF:0.9756 Freq:49.99Hz Lamp Flux:2441.92x1 lm		
NAME: 20W	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*80*74	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

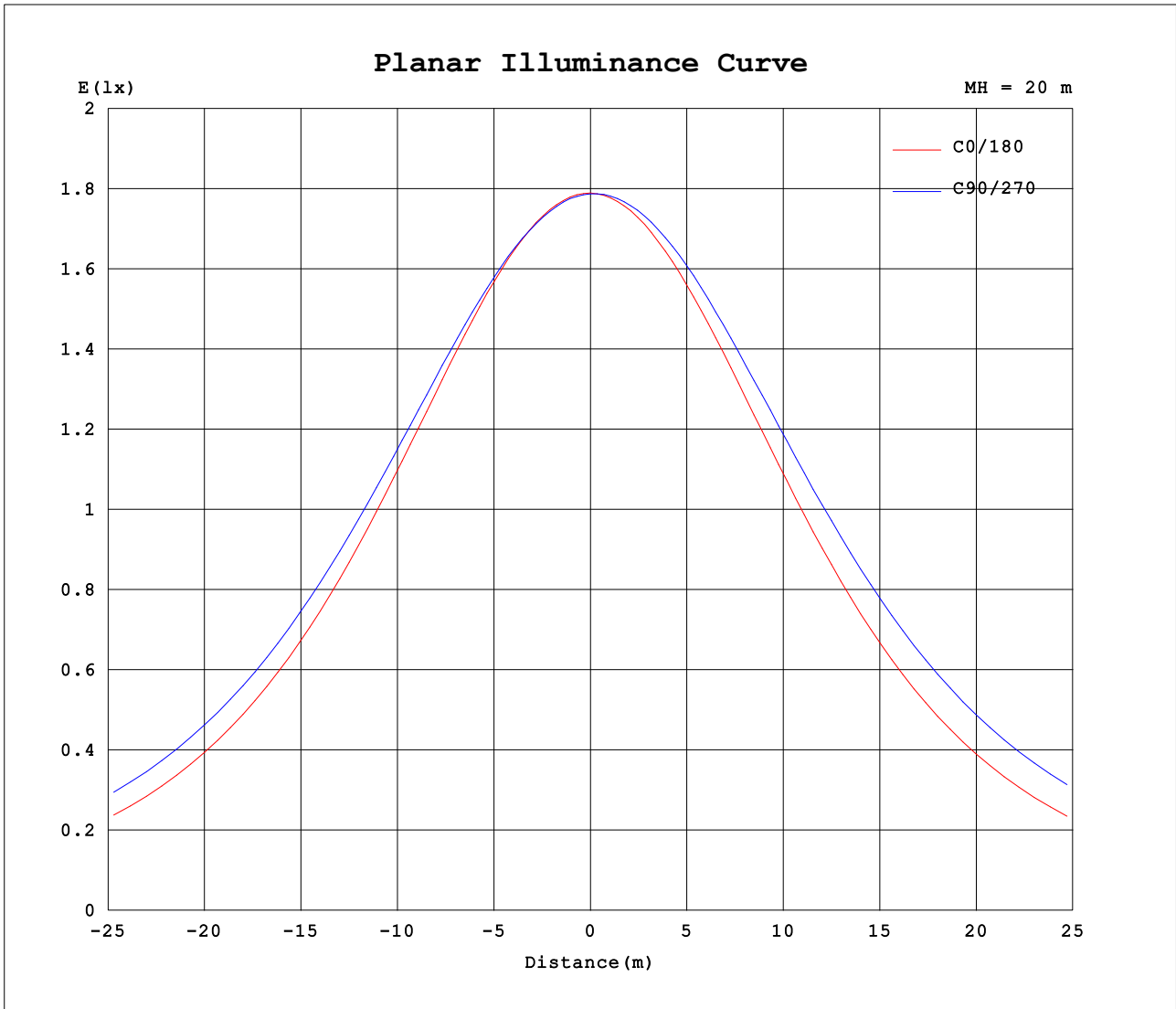
AvgL	cd/m2
L_0~180 (65) av	5499
L_0~180 (75) av	4558
L_0~180 (85) av	3429
L_90~270 (65) av	8877
L_90~270 (75) av	10809
L_90~270 (85) av	22862
L_45 (65) av	7609
L_45 (75) av	8465
L_45 (85) av	15575

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-26

γ Range: 0 - 180DEG
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 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:14.600m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2025-08-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 14.600m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:222.65V I:0.0860A P:18.672W PF:0.9756 Freq:49.99Hz Lamp Flux:2441.92x1 lm		
NAME: 20W	TYPE:	WEIGHT:
SPEC.:	DIM.: 1200*80*74	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	715	715	715	715															
5	712	711	711	715															
10	701	702	698	711															
15	683	689	679	703															
20	657	672	652	689															
25	624	651	620	671															
30	586	626	581	647															
35	543	596	539	621															
40	497	561	491	588															
45	446	524	441	552															
50	393	483	389	513															
55	338	439	335	470															
60	281	393	279	424															
65	224	346	223	374															
70	167	301	167	325															
75	113	259	114	279															
80	64.6	219	66.6	237															
85	28.0	183	29.4	200															
90	9.07	150	9.01	166															
95	7.48	118	6.95	133															
100	7.48	89.3	6.98	104															
105	7.44	70.3	7.07	83.4															
110	7.33	54.9	7.19	67.0															
115	7.35	41.6	7.32	52.9															
120	7.33	29.8	7.38	40.1															
125	7.42	20.0	7.56	28.7															
130	7.39	12.3	7.71	19.2															
135	7.50	8.64	7.82	11.9															
140	7.62	8.75	7.97	8.95															
145	7.77	8.95	8.20	8.95															
150	7.99	8.99	8.45	9.18															
155	8.45	9.10	8.81	9.25															
160	8.74	9.12	9.18	9.35															
165	9.17	9.22	9.44	9.36															
170	9.37	9.36	9.66	9.42															
175	9.56	9.55	9.69	9.51															
180	9.69	9.55	9.70	9.50															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2025-08-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
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 Remarks: