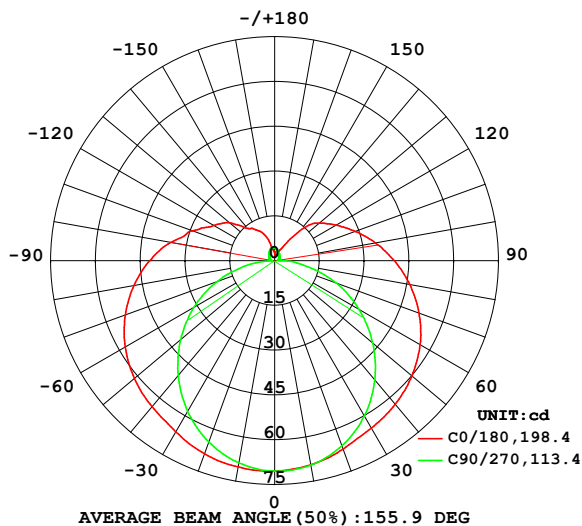


LUMINAIRE PHOTOMETRIC TEST REPORT

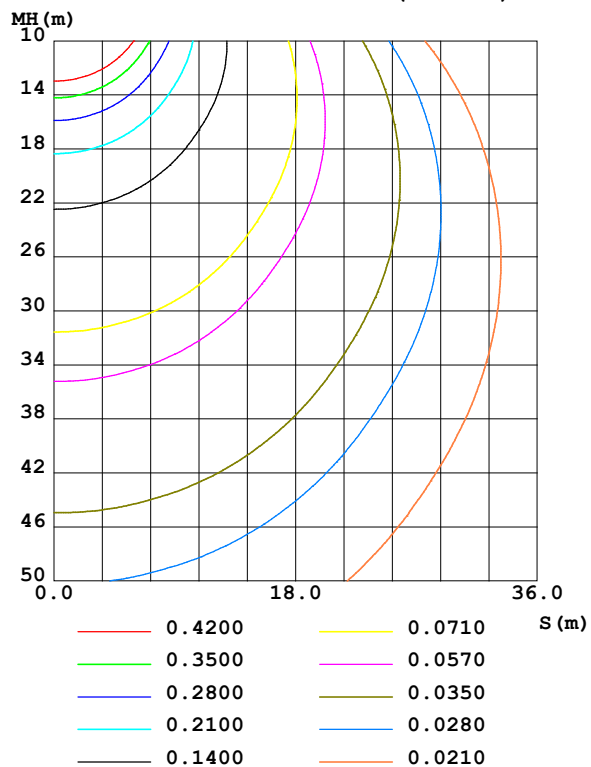
Test:U:101.40V I:0.1140A P:10.700W PF:0.9250 Freq:50.00Hz Lamp Flux:360.154x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 33.66 lm/W
MODEL	80003-27MP	I _{max} (cd)	70.55	S/MH(C0/180)	1.40	
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	1.27	
RATED VOLTAGE(V)	100	TOTAL FLUX(lm)	360.15	η UP,DN(C0-180)	11.5,38.9	
NOMINAL FLUX(lm)	360.154	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	10.6,39.0	
LAMPS INSIDE	1	η up (%)	22.1	CIBSE SHR NOM	1.50	
TEST VOLTAGE(V)	100	η down (%)	77.9	CIBSE SHR MAX	1.50	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 06 January 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 8.186m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	70.17	68.82	69.44	69.57					0- 10	6.680	6.680	1.85,1.85
20	68.85	64.61	67.17	65.99					10- 20	19.30	25.98	7.21,7.21
30	66.25	58.29	64.77	60.08					20- 30	29.83	55.81	15.5,15.5
40	63.91	50.25	62.83	52.21					30- 40	37.56	93.37	25.9,25.9
50	61.35	41.10	60.05	42.88					40- 50	42.08	135.4	37.6,37.6
60	57.79	31.20	56.25	32.65					50- 60	43.01	178.5	49.5,49.5
70	53.20	20.52	51.51	22.01					60- 70	40.40	218.9	60.8,60.8
80	47.83	9.669	45.96	10.65					70- 80	34.54	253.4	70.4,70.4
90	41.88	1.555	40.10	2.759					80- 90	27.10	280.5	77.9,77.9
100	35.33	1.594	34.34	1.020					90-100	21.56	302.1	83.9,83.9
110	29.43	1.951	28.76	1.359					100-110	17.64	319.7	88.8,88.8
120	23.64	2.305	23.87	1.669					110-120	13.98	333.7	92.6,92.6
130	19.70	2.609	19.60	1.973					120-130	10.76	344.4	95.6,95.6
140	14.13	2.874	12.89	2.313					130-140	7.518	351.9	97.7,97.7
150	11.80	3.585	5.045	2.724					140-150	4.301	356.2	98.9,98.9
160	8.820	4.269	1.983	3.192					150-160	2.421	358.7	99.6,99.6
170	3.985	4.525	1.742	3.871					160-170	1.150	359.8	99.9,99.9
180	2.817	4.468	2.843	4.472					170-180	0.3339	360.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 114.06 lm

%lum = 31.7%

%lamp = 31.7%

Conical surface Flux(130deg): 199.19 lm

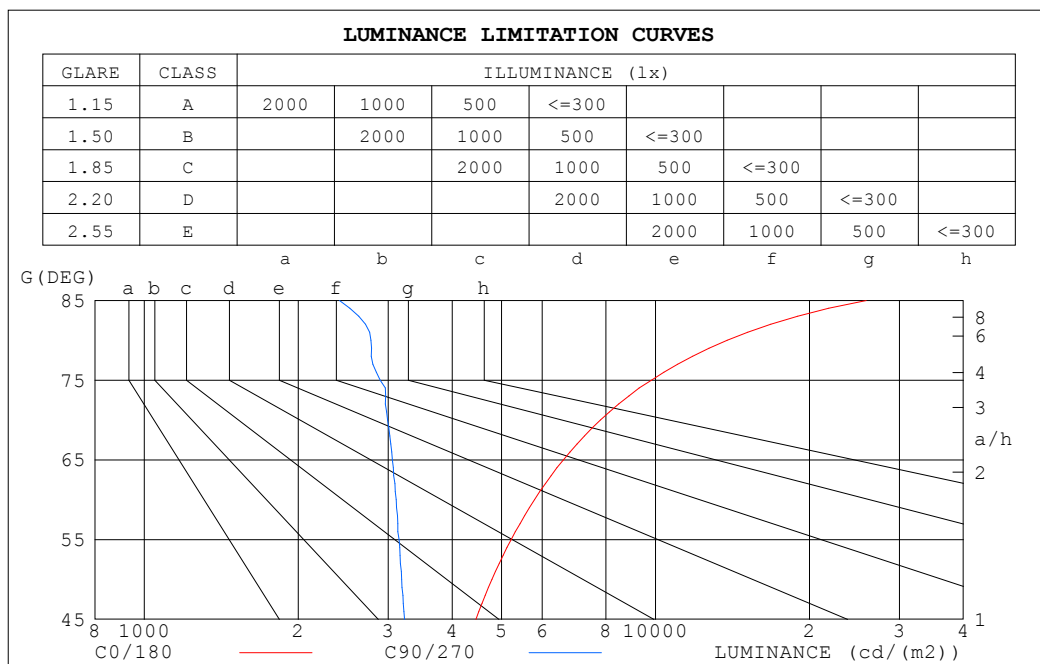
%lum = 55.3%

%lamp = 55.3%

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:06 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:8.186m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



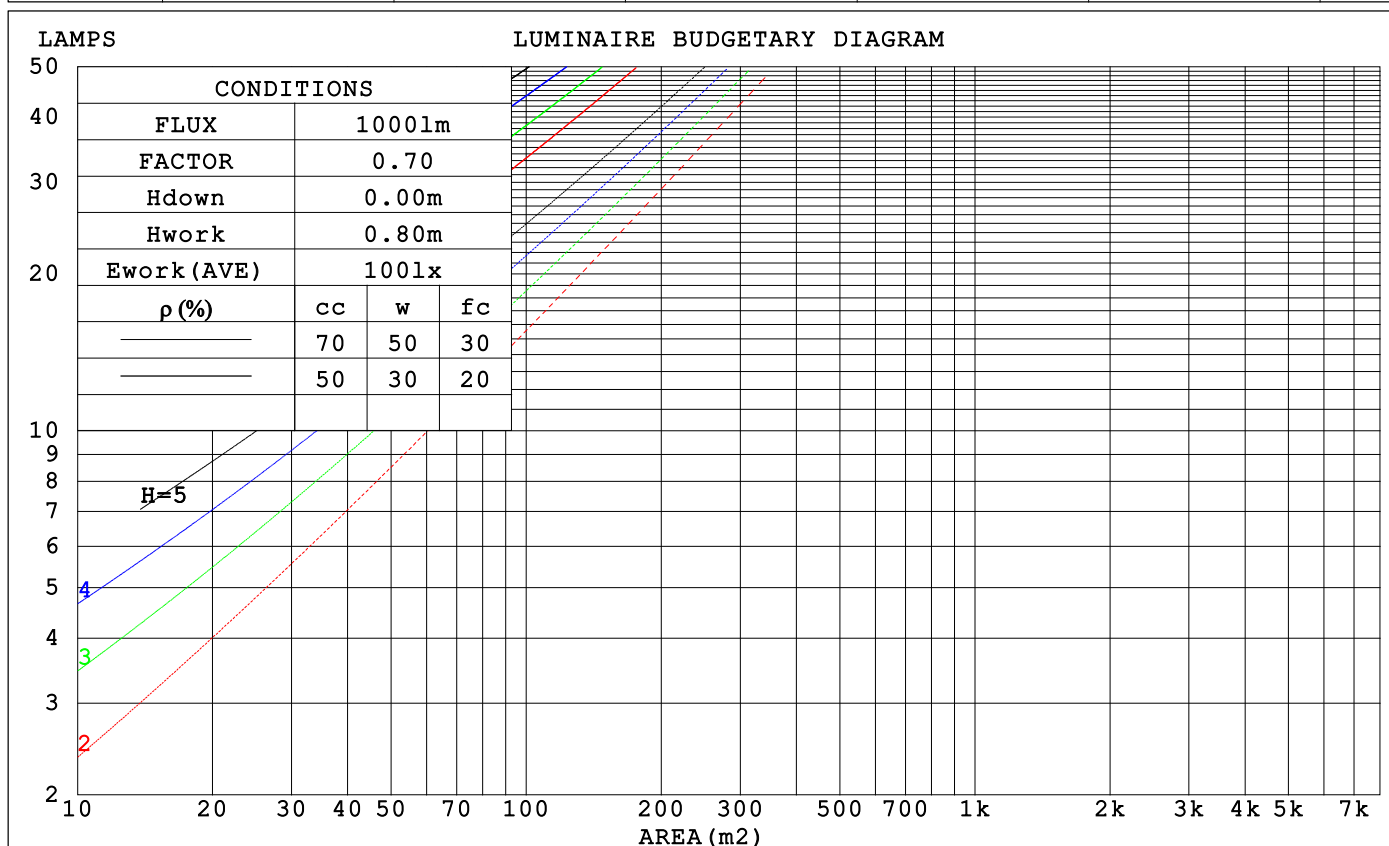
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	25831	2408
80	13815	2776
75	9808	2895
70	7802	2991
65	6603	3057
60	5797	3111
55	5220	3152
50	4787	3187
45	4450	3227

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 06 January 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 8.186m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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	1.14	1.14	1.14	1.09	1.09	1.09	.99	.99	.99	.90	.90	.90	.82	.82	.82	.78
1.0	.95	.89	.84	.90	.85	.81	.82	.78	.74	.74	.71	.68	.67	.64	.62	.58
2.0	.81	.73	.66	.77	.70	.64	.70	.64	.59	.63	.58	.54	.57	.53	.50	.46
3.0	.70	.61	.54	.66	.58	.52	.60	.53	.48	.55	.49	.44	.49	.45	.41	.38
4.0	.61	.52	.44	.58	.50	.43	.53	.46	.40	.48	.42	.37	.43	.38	.34	.31
5.0	.54	.45	.38	.52	.43	.36	.47	.40	.34	.43	.37	.32	.39	.33	.29	.26
6.0	.48	.39	.32	.46	.38	.31	.42	.35	.29	.38	.32	.27	.35	.30	.25	.23
7.0	.44	.35	.28	.42	.33	.27	.38	.31	.26	.35	.29	.24	.32	.26	.22	.20
8.0	.40	.31	.25	.38	.30	.24	.35	.28	.23	.32	.26	.21	.29	.24	.20	.18
9.0	.36	.28	.22	.35	.27	.22	.32	.25	.20	.29	.23	.19	.27	.22	.18	.16
10.0	.33	.25	.20	.32	.24	.19	.29	.23	.18	.27	.21	.17	.25	.20	.16	.14



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:06 January 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:8.186m [K=1.0000]
Remarks:

WEC AND CCEC

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						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.388	.220	.070	.374	.213	.068	.347	.199	.064	.323	.187	.060	.301	.175	.056		
2.0	.335	.183	.056	.322	.177	.055	.298	.166	.052	.277	.155	.049	.256	.145	.046		
3.0	.297	.158	.047	.285	.153	.046	.264	.143	.043	.244	.134	.041	.226	.125	.039		
4.0	.267	.139	.041	.257	.134	.040	.237	.126	.038	.219	.118	.035	.202	.110	.033		
5.0	.242	.124	.036	.233	.120	.035	.215	.112	.033	.199	.105	.031	.183	.098	.029		
6.0	.222	.111	.032	.213	.108	.031	.197	.101	.029	.182	.095	.028	.168	.088	.026		
7.0	.205	.101	.029	.197	.098	.028	.182	.092	.026	.168	.086	.025	.155	.080	.024		
8.0	.190	.093	.026	.182	.090	.025	.169	.084	.024	.156	.079	.023	.144	.074	.021		
9.0	.177	.085	.024	.170	.083	.023	.157	.078	.022	.145	.073	.021	.134	.068	.020		
10.0	.165	.079	.022	.159	.077	.021	.147	.072	.020	.136	.068	.019	.126	.063	.018		

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						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.359	.359	.359	.307	.307	.307	.209	.209	.209	.120	.120	.120	.038	.038	.038		
1.0	.356	.325	.298	.304	.279	.257	.208	.192	.177	.120	.111	.103	.038	.036	.033		
2.0	.349	.303	.264	.299	.261	.228	.205	.180	.159	.118	.105	.093	.038	.034	.030		
3.0	.342	.286	.242	.293	.247	.210	.201	.172	.147	.116	.100	.087	.037	.033	.028		
4.0	.334	.274	.228	.287	.237	.198	.197	.165	.140	.114	.097	.083	.037	.031	.027		
5.0	.326	.264	.219	.280	.229	.190	.193	.160	.134	.112	.094	.080	.036	.031	.026		
6.0	.319	.257	.212	.274	.222	.184	.189	.156	.131	.110	.091	.078	.035	.030	.026		
7.0	.312	.250	.207	.268	.217	.180	.185	.152	.128	.108	.090	.076	.035	.029	.025		
8.0	.305	.245	.203	.263	.212	.177	.182	.149	.125	.106	.088	.075	.034	.029	.025		
9.0	.299	.240	.200	.258	.208	.174	.178	.146	.124	.104	.086	.074	.034	.028	.024		
10.0	.293	.236	.197	.253	.205	.172	.175	.144	.122	.102	.085	.073	.033	.028	.024		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 06 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 8.186m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

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	17.6	18.9	18.2	19.5	20.2	15.4	16.7	15.9	17.3	17.9
3H	20.5	21.7	21.1	22.3	23.0	17.1	18.3	17.7	18.9	19.6
4H	22.1	23.3	22.7	23.9	24.6	17.8	19.0	18.4	19.6	20.3
6H	23.9	25.0	24.6	25.7	26.4	18.4	19.4	19.0	20.1	20.8
8H	24.9	26.0	25.6	26.7	27.4	18.6	19.6	19.2	20.3	21.0
12H	26.1	27.1	26.8	27.8	28.5	18.7	19.7	19.3	20.3	21.1
4H 2H	18.1	19.3	18.7	19.9	20.6	16.5	17.7	17.1	18.3	19.0
3H	21.2	22.2	21.9	22.9	23.7	18.5	19.5	19.1	20.2	20.9
4H	23.0	23.9	23.7	24.6	25.4	19.4	20.4	20.1	21.0	21.8
6H	25.0	25.9	25.7	26.6	27.4	20.2	21.0	20.9	21.7	22.5
8H	26.2	26.9	26.9	27.7	28.5	20.5	21.3	21.2	22.0	22.8
12H	27.5	28.2	28.2	28.9	29.8	20.7	21.4	21.4	22.1	23.0
8H 4H	23.3	24.1	24.0	24.8	25.6	20.4	21.2	21.1	21.9	22.8
6H	25.6	26.2	26.3	27.0	27.8	21.6	22.2	22.3	23.0	23.8
8H	26.9	27.5	27.7	28.2	29.1	22.1	22.7	22.8	23.4	24.3
12H	28.5	29.0	29.2	29.8	30.7	22.5	23.0	23.3	23.8	24.7
12H 4H	23.3	24.0	24.0	24.8	25.6	20.8	21.5	21.5	22.2	23.1
6H	25.7	26.3	26.4	27.0	27.9	22.1	22.7	22.9	23.4	24.3
8H	27.1	27.6	27.9	28.4	29.3	22.8	23.3	23.5	24.1	25.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.5				

CIE Pub.117, 360.2 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -3.5$)
Area: 0.02 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:06 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:8.186m [K=1.0000]
Remarks:

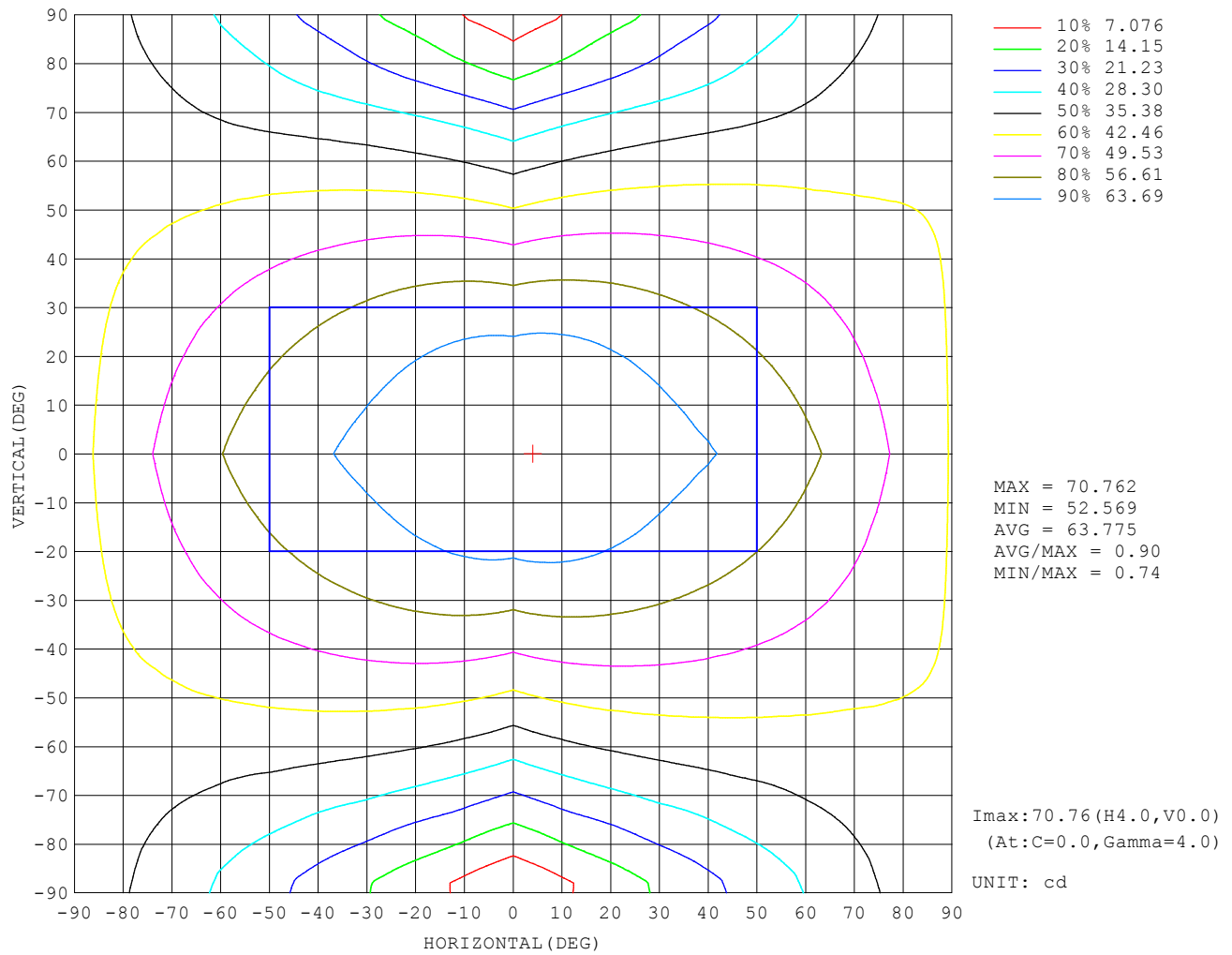
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	46	34	26	45	33	26	43	32	26	19
0.80	55	42	34	53	41	33	50	40	32	24
1.00	63	50	41	61	49	41	57	49	39	30
1.25	70	57	48	67	55	47	62	52	45	35
1.50	75	62	54	72	61	53	67	57	50	39
2.00	82	71	63	79	69	61	73	64	58	45
2.50	87	76	68	83	74	66	76	69	62	49
3.00	91	81	74	87	78	71	79	73	67	52
4.00	96	87	81	91	84	78	83	78	73	57
5.00	99	91	85	94	88	82	86	81	76	60
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: 25.3°C
 Operators: DAMIN
 Test Date: 06 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 8.186m [K=1.0000]
 Remarks:

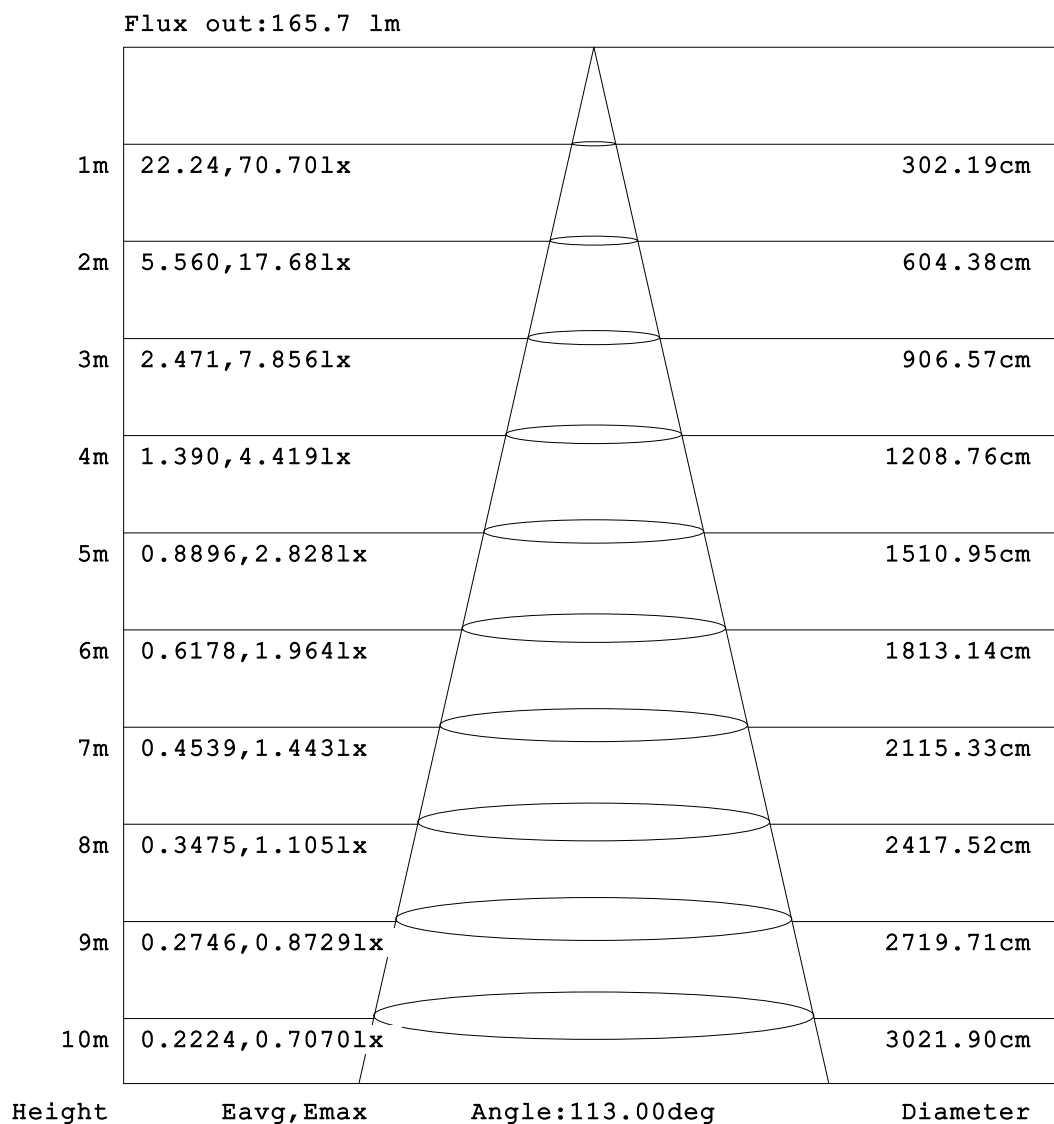
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 06 January 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 8.186m [K=1.0000]
Remarks:

AAI Figure

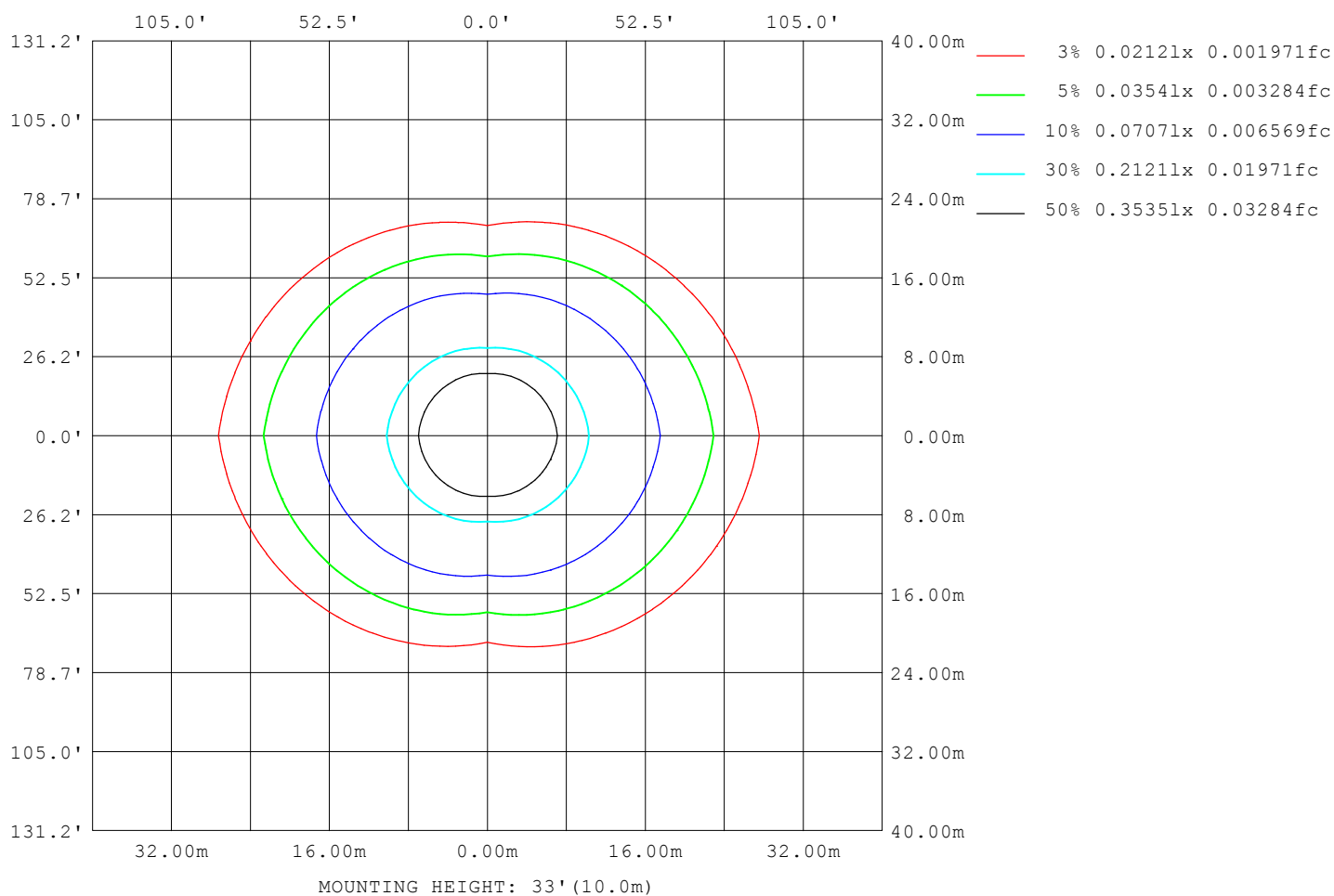


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:06 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity:65.0%
 Test Distance:8.186m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 06 January 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity: 65.0%
Test Distance: 8.186m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:101.40V I:0.1140A P:10.700W PF:0.9250 Freq:50.00Hz Lamp Flux:360.154x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

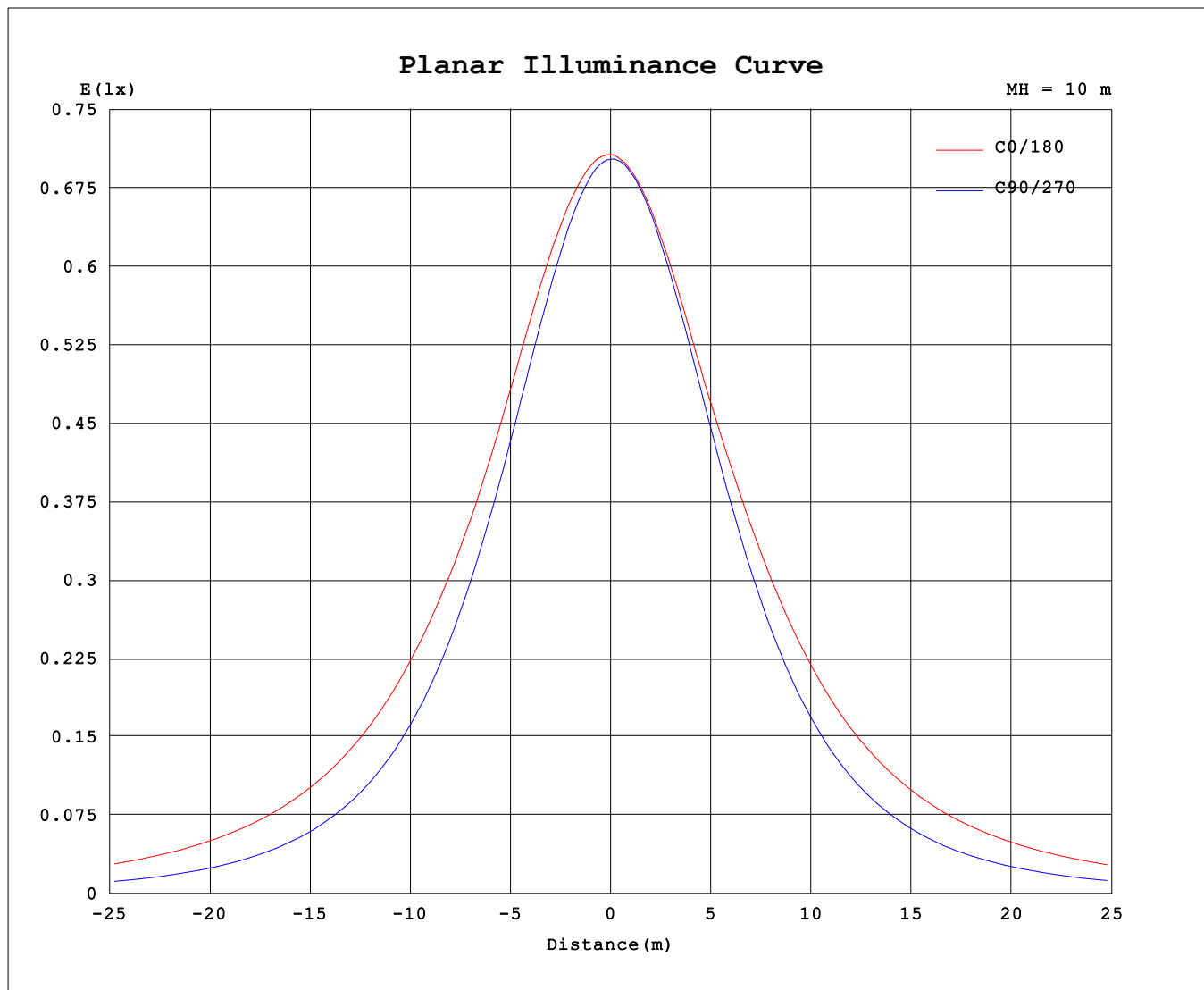
AvgL	cd/m2
L_0~180 (65) av	6485
L_0~180 (75) av	9603
L_0~180 (85) av	25215
L_90~270 (65) av	3155
L_90~270 (75) av	3004
L_90~270 (85) av	3160
L_45 (65) av	4402
L_45 (75) av	5476
L_45 (85) av	11427

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:06 January 2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:65.0%
Test Distance:8.186m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 06 January 2025

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.459
 Humidity: 65.0%
 Test Distance: 8.186m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	70.5	70.5	70.5	70.5															
5	70.5	70.0	70.1	70.3															
10	70.2	68.8	69.4	69.6															
15	69.7	67.0	68.5	68.1															
20	68.8	64.6	67.2	66.0															
25	67.7	61.7	65.7	63.4															
30	66.2	58.3	64.8	60.1															
35	64.9	54.5	63.9	56.4															
40	63.9	50.2	62.8	52.2															
45	62.7	45.8	61.6	47.7															
50	61.3	41.1	60.0	42.9															
55	59.7	36.3	58.3	37.8															
60	57.8	31.2	56.3	32.6															
65	55.6	25.9	54.0	27.4															
70	53.2	20.5	51.5	22.0															
75	50.6	15.0	48.8	16.1															
80	47.8	9.67	46.0	10.7															
85	44.9	4.21	43.0	6.81															
90	41.9	1.56	40.1	2.76															
95	38.8	0.99	37.2	1.47															
100	35.3	1.59	34.3	1.02															
105	31.6	1.71	31.5	1.19															
110	29.4	1.95	28.8	1.36															
115	26.2	2.15	26.2	1.55															
120	23.6	2.30	23.9	1.67															
125	21.8	2.48	21.7	1.82															
130	19.7	2.61	19.6	1.97															
135	16.8	2.73	17.3	2.14															
140	14.1	2.87	12.9	2.31															
145	13.2	3.23	7.98	2.48															
150	11.8	3.58	5.04	2.72															
155	10.6	3.92	3.37	2.89															
160	8.82	4.27	1.98	3.19															
165	6.13	4.50	1.81	3.56															
170	3.99	4.52	1.74	3.87															
175	3.21	4.53	1.85	4.20															
180	2.82	4.47	2.84	4.47															

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:06 January 2025

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459

Humidity:65.0%

Test Distance:8.186m [K=1.0000]

Remarks: