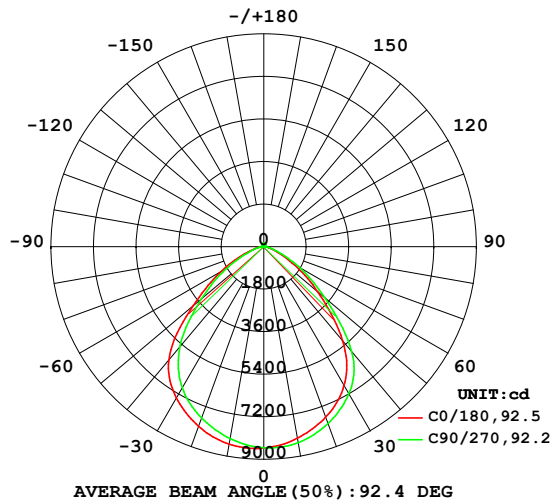


LUMINAIRE PHOTOMETRIC TEST REPORT

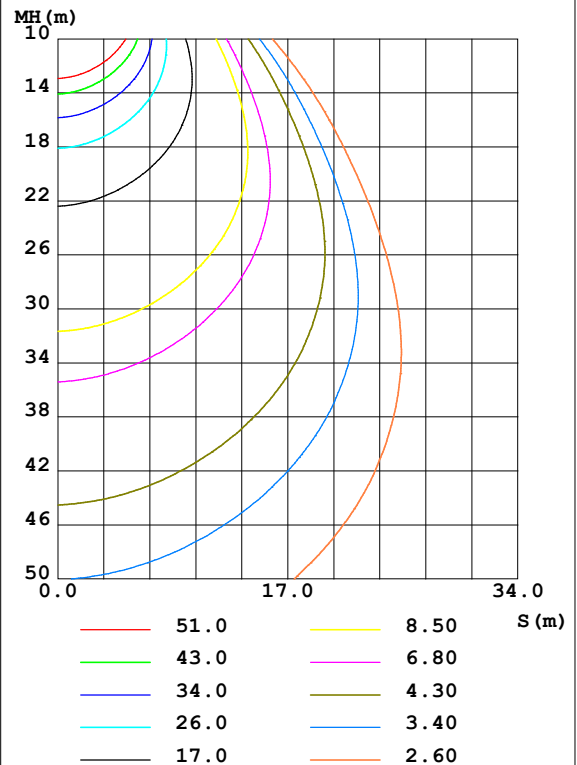
Test:U:218.63V I:0.4824A P:101.08W PF:0.9585 Freq:50.18Hz Lamp Flux:18457.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 182.60 lm/W			
MODEL		I _{max} (cd)	8550	S/MH (C0/180)	1.29
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	18458	η UP, DN (C0-180)	1.2, 46.8
NOMINAL FLUX (lm)	18457.9	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.5, 50.5
LAMPS INSIDE	1	η up (%)	2.7	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	97.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2025-06-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	8228	8421	8483	8240					0- 10	804.7	804.7	4.36,4.36
20	7668	7959	8082	7711					10- 20	2295	3100	16.8,16.8
30	6791	7200	7399	6899					20- 30	3458	6558	35.5,35.5
40	5195	5787	6246	5523					30- 40	4040	10598	57.4,57.4
50	3003	3374	3906	3450					40- 50	3514	14112	76.5,76.5
60	1388	1704	2062	1763					50- 60	2260	16372	88.7,88.7
70	504.1	620.2	794.3	641.2					60- 70	1102	17475	94.7,94.7
80	112.8	165.3	230.4	179.9					70- 80	393.9	17868	96.8,96.8
90	55.60	57.93	41.37	42.94					80- 90	87.53	17956	97.3,97.3
100	49.94	50.36	53.13	55.79					90-100	54.84	18011	97.6,97.6
110	53.83	52.23	68.07	71.53					100-110	59.71	18071	97.9,97.9
120	63.03	60.26	83.11	86.94					110-120	66.62	18137	98.3,98.3
130	75.32	71.93	98.27	102.0					120-130	71.63	18209	98.7,98.7
140	90.10	86.00	113.3	117.2					130-140	72.84	18282	99,99
150	105.3	101.2	126.7	129.7					140-150	68.15	18350	99.4,99.4
160	120.5	117.1	138.3	139.9					150-160	56.47	18406	99.7,99.7
170	135.2	132.2	146.1	145.9					160-170	38.02	18444	99.9,99.9
180	145.9	144.1	146.5	143.7					170-180	13.59	18458	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 12502 lm

%lum = 67.7%

%lamp = 67.7%

Conical surface Flux(120deg): 16372 lm

%lum = 88.7%

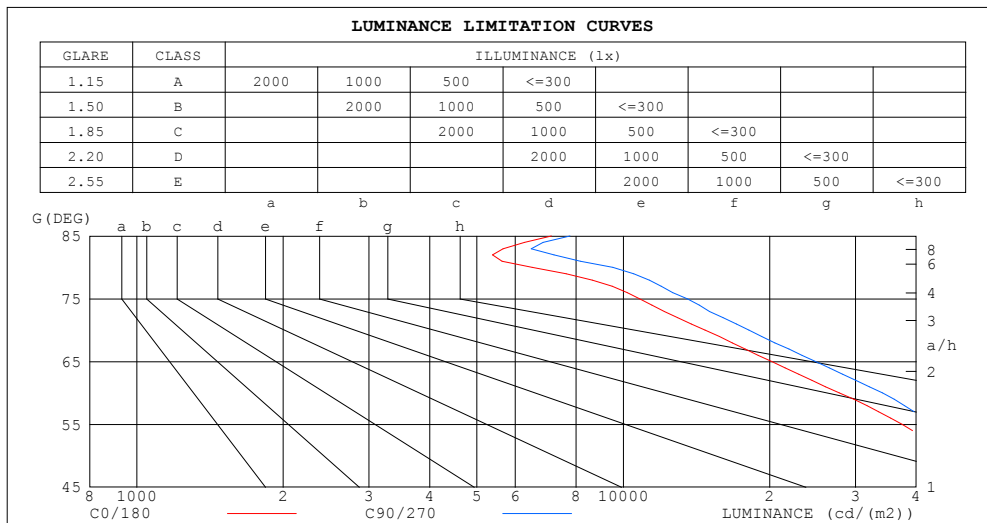
%lamp = 88.7%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-06-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.63V I:0.4824A P:101.08W PF:0.9585 Freq:50.18Hz Lamp Flux:18457.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	7121	7768
80	6494	9518
75	10802	13532
70	14738	18134
65	20197	24855
60	27767	34080
55	37371	43129
50	46722	52497
45	57239	64387

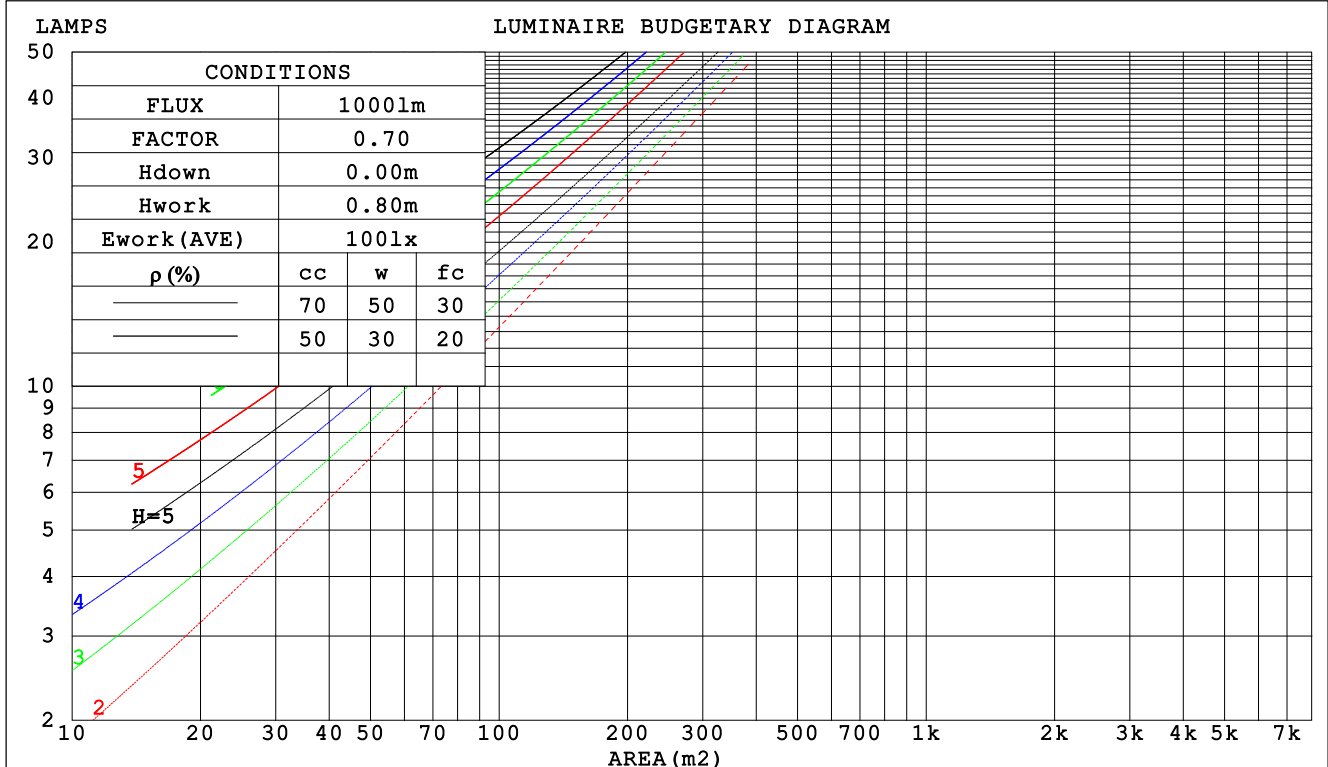
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2025-06-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:218.63V I:0.4824A P:101.08W PF:0.9585 Freq:50.18Hz Lamp Flux:18457.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	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	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.04	1.04	1.04	.00	.00	.00	.97
1.0	1.06	1.03	.00	1.04	1.01	.98	.99	.97	.94	.95	.93	.91	.91	.89	.88	.86
2.0	.95	.89	.85	.93	.88	.83	.89	.85	.81	.86	.82	.79	.82	.79	.77	.75
3.0	.85	.78	.73	.83	.77	.72	.80	.75	.70	.77	.73	.69	.74	.71	.67	.65
4.0	.77	.69	.63	.75	.68	.63	.72	.66	.62	.70	.65	.60	.68	.63	.59	.57
5.0	.69	.61	.56	.68	.61	.55	.66	.59	.54	.64	.58	.54	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.49	.60	.53	.48	.58	.52	.48	.56	.51	.47	.45
7.0	.58	.50	.44	.57	.49	.44	.55	.48	.43	.53	.47	.43	.52	.46	.42	.41
8.0	.53	.45	.40	.52	.45	.39	.51	.44	.39	.49	.43	.39	.48	.42	.38	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.35	.45	.39	.35	.44	.39	.35	.33
10.0	.45	.38	.33	.44	.37	.33	.43	.37	.32	.42	.36	.32	.41	.36	.32	.30



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-06-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.63V I:0.4824A P:101.08W PF:0.9585 Freq:50.18Hz Lamp Flux:18457.9x1 lm									
NAME:				TYPE:				WEIGHT:	
SPEC.:				DIM.:				SERIAL No.:	
MFR.: EVERFINE				SUR.:				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	.248	.141	.045	.241	.137	.044	.226	.130	.041	.213	.123	.039	.200	.116	.037		
2.0	.241	.132	.040	.234	.129	.040	.221	.123	.038	.209	.118	.037	.199	.112	.035		
3.0	.228	.121	.036	.222	.119	.036	.211	.114	.035	.201	.110	.034	.191	.106	.033		
4.0	.215	.112	.033	.210	.110	.032	.200	.106	.032	.191	.102	.031	.182	.099	.030		
5.0	.202	.103	.030	.198	.101	.030	.189	.098	.029	.181	.095	.028	.173	.092	.028		
6.0	.190	.095	.027	.186	.094	.027	.178	.091	.027	.171	.089	.026	.164	.086	.026		
7.0	.179	.089	.025	.176	.088	.025	.168	.085	.025	.162	.083	.024	.155	.081	.024		
8.0	.169	.083	.023	.166	.082	.023	.159	.080	.023	.153	.078	.022	.148	.076	.022		
9.0	.160	.077	.022	.157	.076	.021	.151	.075	.021	.146	.073	.021	.140	.071	.021		
10.0	.152	.073	.020	.149	.072	.020	.143	.070	.020	.138	.069	.020	.134	.067	.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	.211	.211	.211	.180	.180	.180	.123	.123	.123	.071	.071	.071	.023	.023	.023	
1.0	.197	.178	.160	.169	.152	.138	.115	.105	.095	.066	.061	.055	.021	.020	.018	
2.0	.186	.153	.125	.160	.132	.108	.109	.091	.076	.063	.053	.044	.020	.017	.014	
3.0	.178	.135	.101	.152	.117	.088	.105	.081	.062	.060	.047	.036	.019	.015	.012	
4.0	.170	.121	.085	.146	.105	.074	.100	.073	.052	.058	.043	.031	.019	.014	.010	
5.0	.162	.111	.073	.140	.096	.063	.096	.067	.045	.056	.039	.026	.018	.013	.009	
6.0	.156	.102	.064	.134	.089	.056	.092	.062	.039	.054	.036	.023	.017	.012	.008	
7.0	.150	.095	.057	.129	.083	.050	.089	.058	.035	.052	.034	.021	.017	.011	.007	
8.0	.144	.089	.052	.124	.078	.046	.086	.054	.032	.050	.032	.019	.016	.011	.006	
9.0	.138	.085	.048	.119	.073	.042	.082	.052	.030	.048	.030	.018	.016	.010	.006	
10.0	.133	.080	.045	.115	.070	.039	.080	.049	.028	.046	.029	.017	.015	.010	.006	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-06-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:218.63V I:0.4824A P:101.08W PF:0.9585 Freq:50.18Hz Lamp Flux:18457.9x1 lm										
NAME:					TYPE:			WEIGHT:		
SPEC.:					DIM.:			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	14.4	15.7	14.7	15.9	16.2	14.9	16.2	15.2	16.5	16.7
3H	14.6	15.8	15.0	16.1	16.4	15.2	16.4	15.6	16.7	17.0
4H	14.7	15.8	15.0	16.1	16.4	15.3	16.4	15.6	16.7	17.0
6H	14.6	15.7	15.0	16.0	16.3	15.3	16.3	15.7	16.7	17.0
8H	14.6	15.6	15.0	15.9	16.3	15.3	16.3	15.6	16.6	16.9
12H	14.6	15.5	14.9	15.9	16.2	15.2	16.2	15.6	16.5	16.9
4H 2H	14.5	15.7	14.9	16.0	16.3	15.0	16.1	15.4	16.4	16.7
3H	14.9	15.9	15.3	16.2	16.5	15.4	16.4	15.8	16.7	17.1
4H	15.0	15.8	15.4	16.2	16.6	15.5	16.4	15.9	16.8	17.2
6H	15.0	15.7	15.4	16.1	16.5	15.6	16.3	16.0	16.7	17.2
8H	14.9	15.7	15.4	16.1	16.5	15.6	16.3	16.0	16.7	17.1
12H	14.9	15.6	15.4	16.0	16.5	15.5	16.2	16.0	16.6	17.1
8H 4H	14.9	15.6	15.4	16.1	16.5	15.5	16.2	15.9	16.6	17.0
6H	15.0	15.6	15.4	16.0	16.5	15.6	16.1	16.0	16.6	17.1
8H	15.0	15.5	15.5	15.9	16.4	15.6	16.1	16.0	16.5	17.0
12H	15.0	15.4	15.5	15.9	16.4	15.5	16.0	16.1	16.5	17.0
12H 4H	14.9	15.5	15.4	16.0	16.4	15.4	16.1	15.9	16.5	17.0
6H	14.9	15.5	15.4	15.9	16.4	15.5	16.0	16.0	16.5	17.0
8H	14.9	15.4	15.4	15.9	16.4	15.5	16.0	16.0	16.5	17.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.2					+ 0.8 / - 1.0				
1.5H	+ 0.4 / - 0.6					+ 0.4 / - 0.5				
2.0H	+ 1.7 / - 1.8					+ 1.7 / - 1.9				

CIE Pub.117, 18458 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.1)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-06-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.63V I:0.4824A P:101.08W PF:0.9585 Freq:50.18Hz Lamp Flux:18457.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

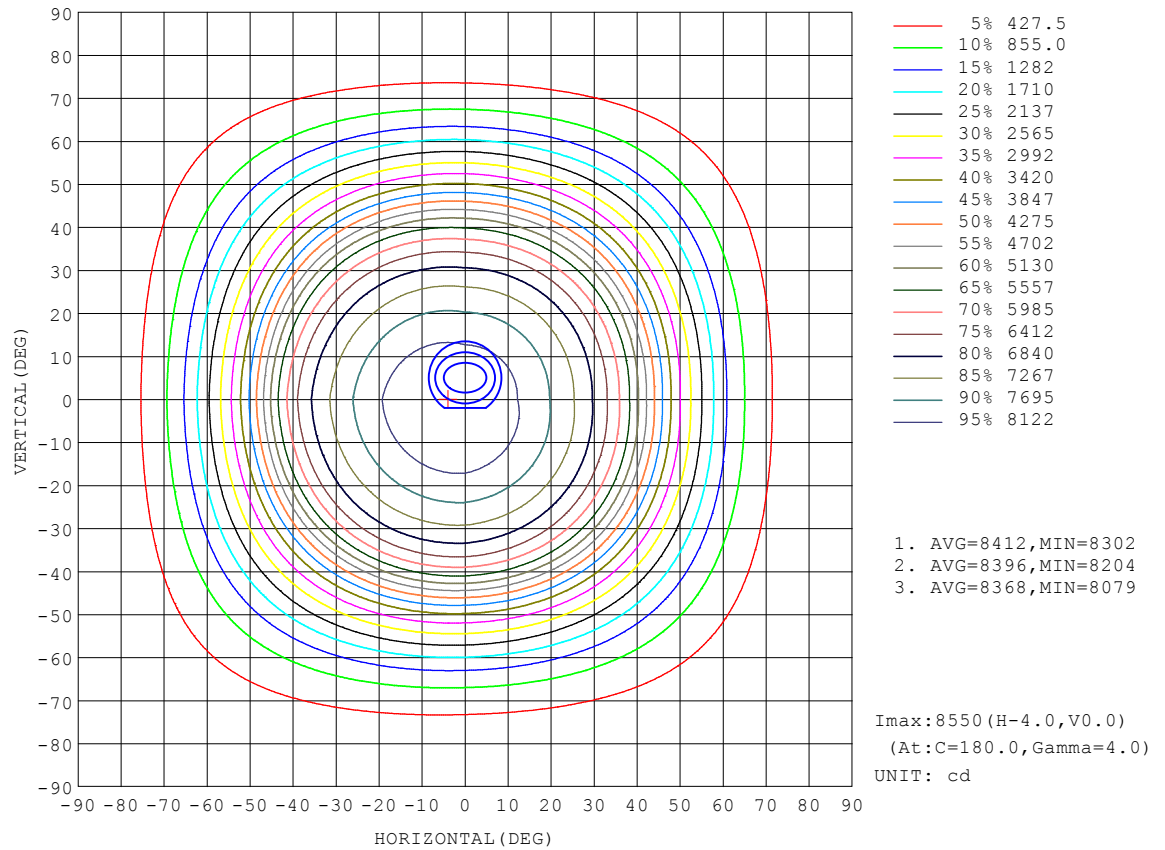
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	54	48	64	54	48	63	54	48	42
0.80	75	65	58	74	64	58	72	63	58	52
1.00	83	74	67	82	73	67	79	74	66	60
1.25	89	81	75	88	80	74	85	78	73	67
1.50	94	86	80	92	85	80	89	83	78	71
2.00	100	93	88	98	91	87	94	89	85	78
2.50	103	96	92	101	95	90	97	92	88	80
3.00	105	100	95	103	98	94	99	95	92	83
4.00	108	104	100	106	102	99	102	98	96	87
5.00	110	106	103	108	104	101	103	100	98	88
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:Jason
Test Date:2025-06-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:218.63V I:0.4824A P:101.08W PF:0.9585 Freq:50.18Hz Lamp Flux:18457.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

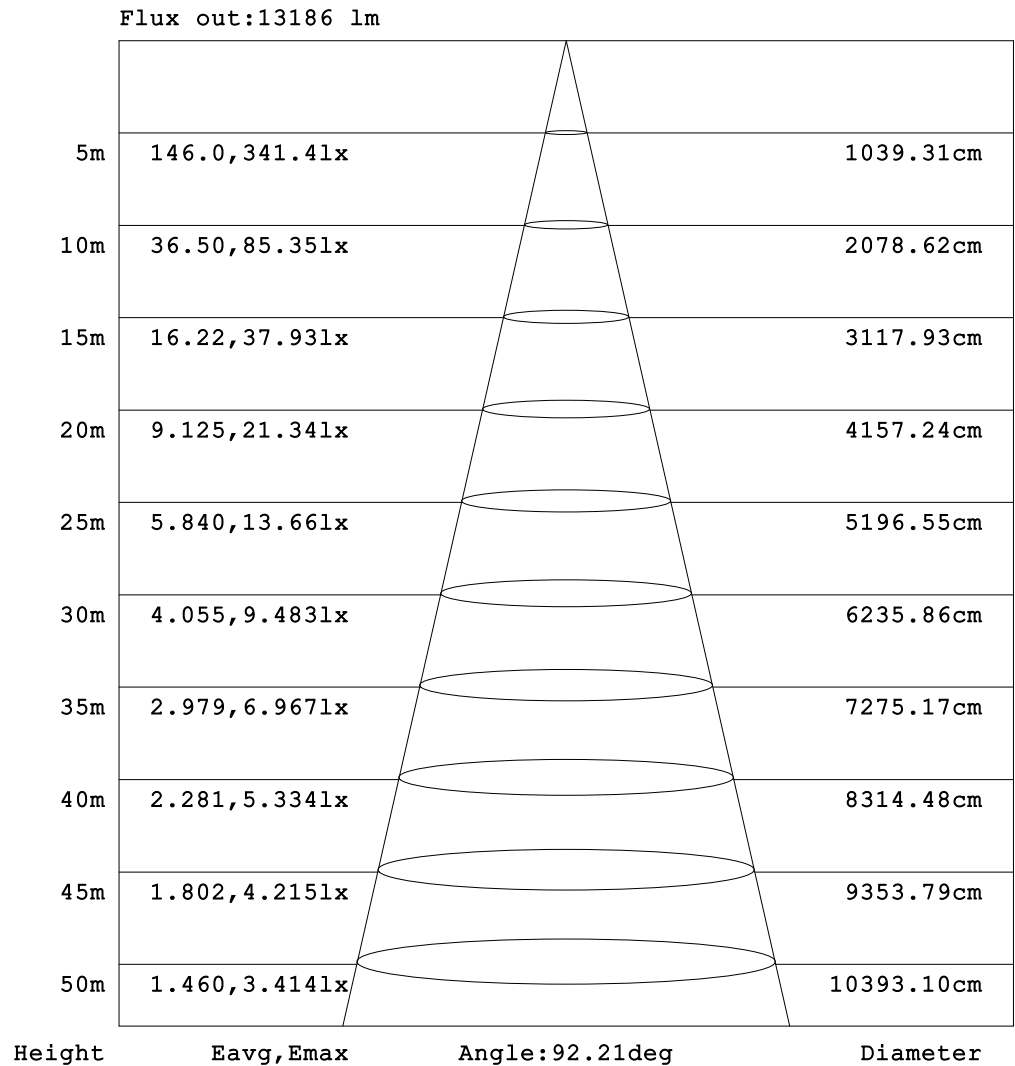


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-06-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:218.63V I:0.4824A P:101.08W PF:0.9585 Freq:50.18Hz Lamp Flux:18457.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



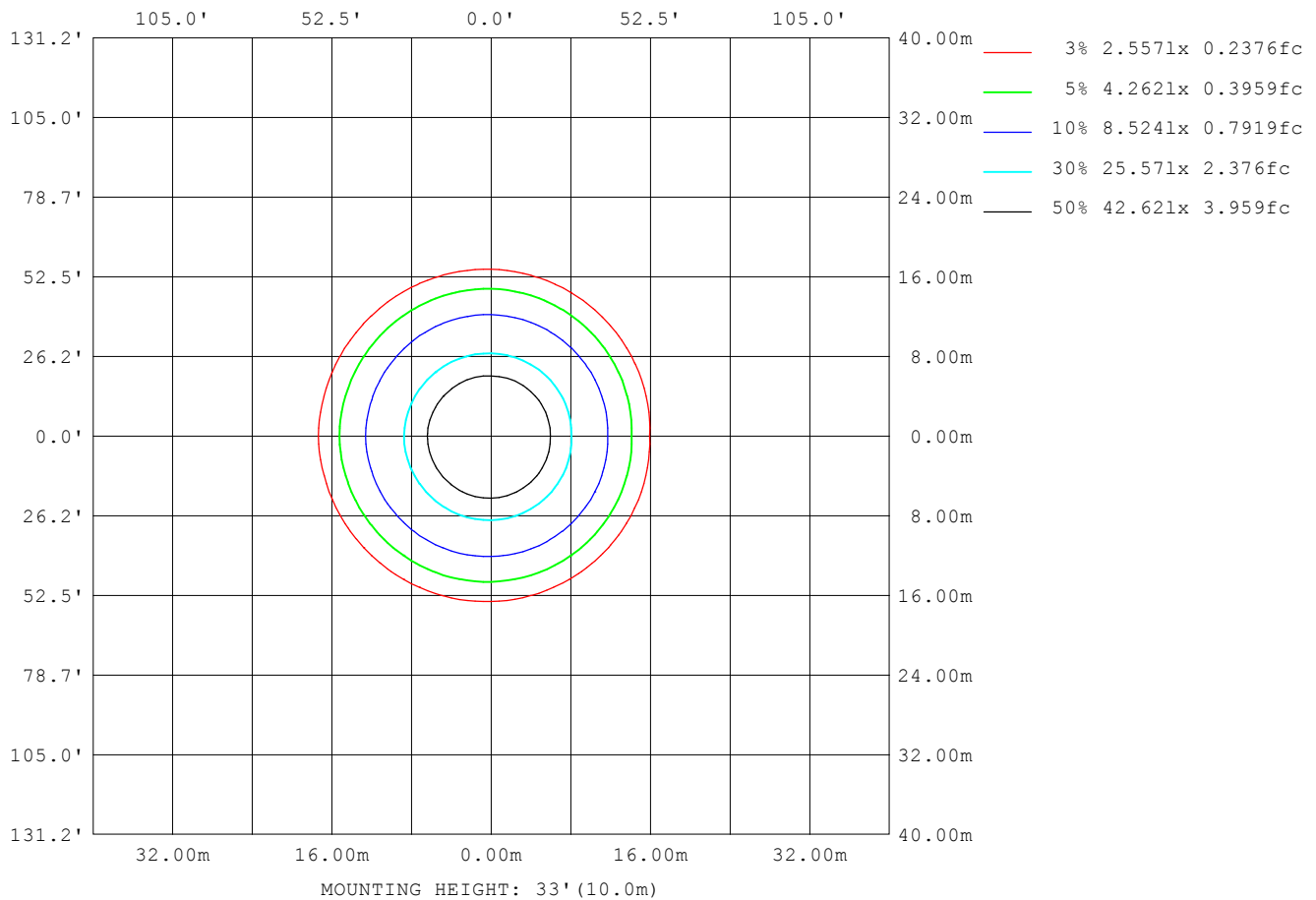
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2025-06-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.250m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:218.63V I:0.4824A P:101.08W PF:0.9585 Freq:50.18Hz Lamp Flux:18457.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-06-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:218.63V I:0.4824A P:101.08W PF:0.9585 Freq:50.18Hz Lamp Flux:18457.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

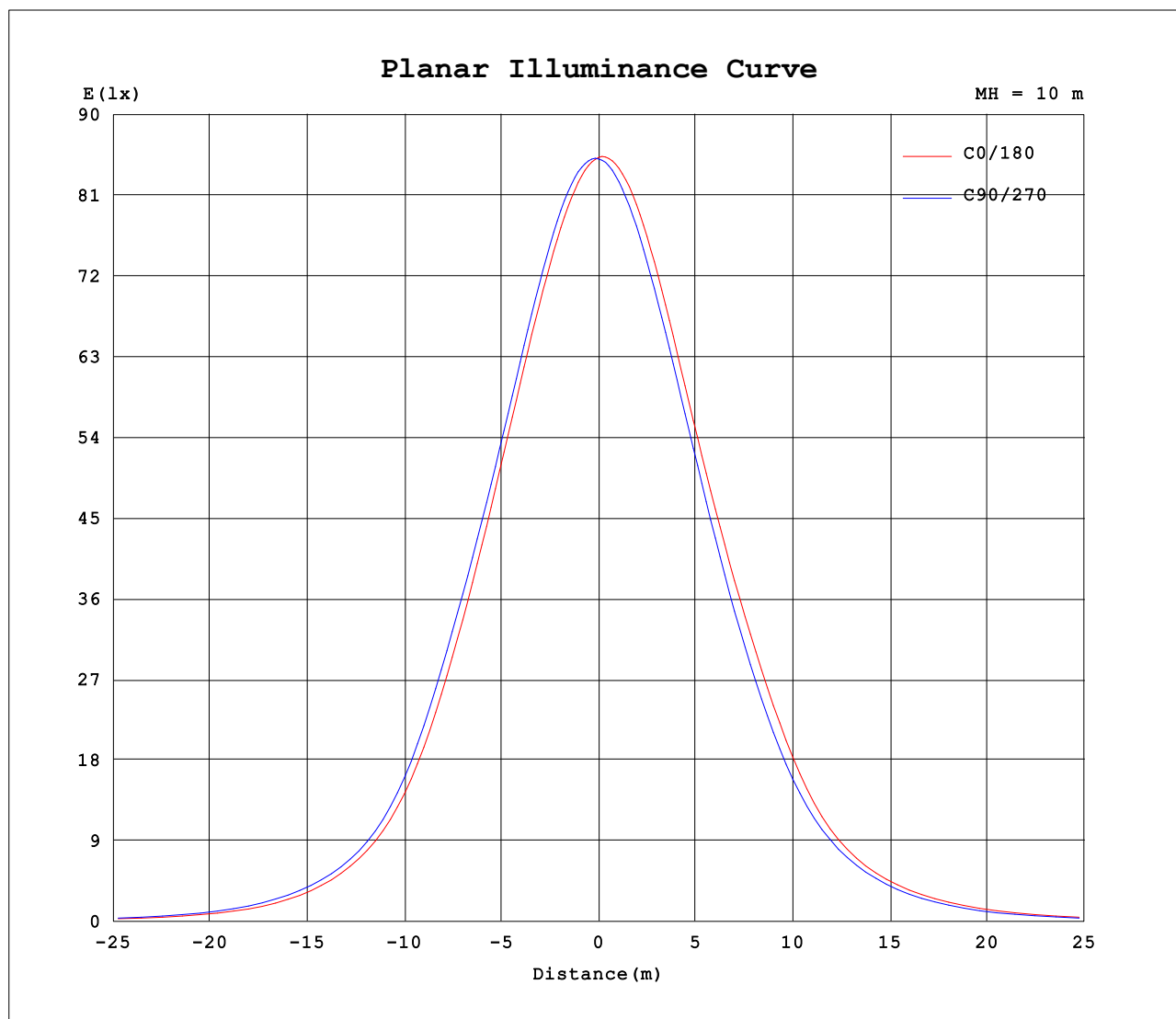
AvgL	cd/m2
L_0~180 (65) av	25830
L_0~180 (75) av	14023
L_0~180 (85) av	7735
L_90~270 (65) av	25354
L_90~270 (75) av	13584
L_90~270 (85) av	6653
L_45 (65) av	25885
L_45 (75) av	13950
L_45 (85) av	7097

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2025-06-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2025-06-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.63V I:0.4824A P:101.08W PF:0.9585 Freq:50.18Hz Lamp Flux:18457.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	8524	8505	8524	8505															
5	8416	8509	8547	8414															
10	8228	8421	8483	8240															
15	7976	8229	8325	8003															
20	7668	7959	8082	7711															
25	7296	7614	7768	7357															
30	6791	7200	7399	6899															
35	6124	6649	6923	6300															
40	5195	5787	6246	5523															
45	4047	4553	5194	4502															
50	3003	3374	3906	3450															
55	2144	2474	2877	2563															
60	1388	1704	2062	1763															
65	854	1050	1330	1093															
70	504	620	794	641															
75	280	350	446	353															
80	113	165	230	180															
85	62.1	67.7	72.8	48.3															
90	55.6	57.9	41.4	42.9															
95	51.6	53.0	46.5	48.7															
100	49.9	50.4	53.1	55.8															
105	50.9	50.3	60.3	63.5															
110	53.8	52.2	68.1	71.5															
115	57.9	55.6	75.6	79.2															
120	63.0	60.3	83.1	86.9															
125	68.8	65.7	90.7	94.5															
130	75.3	71.9	98.3	102															
135	82.5	78.8	106	110															
140	90.1	86.0	113	117															
145	97.6	93.6	120	124															
150	105	101	127	130															
155	113	109	133	135															
160	121	117	138	140															
165	128	125	143	144															
170	135	132	146	146															
175	142	139	148	146															
180	146	144	146	144															

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