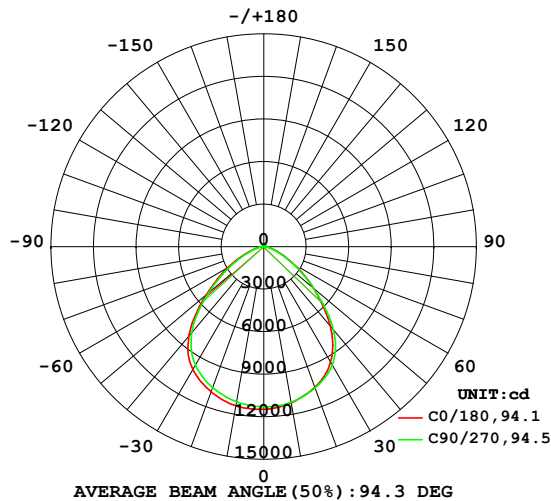


LUMINAIRE PHOTOMETRIC TEST REPORT

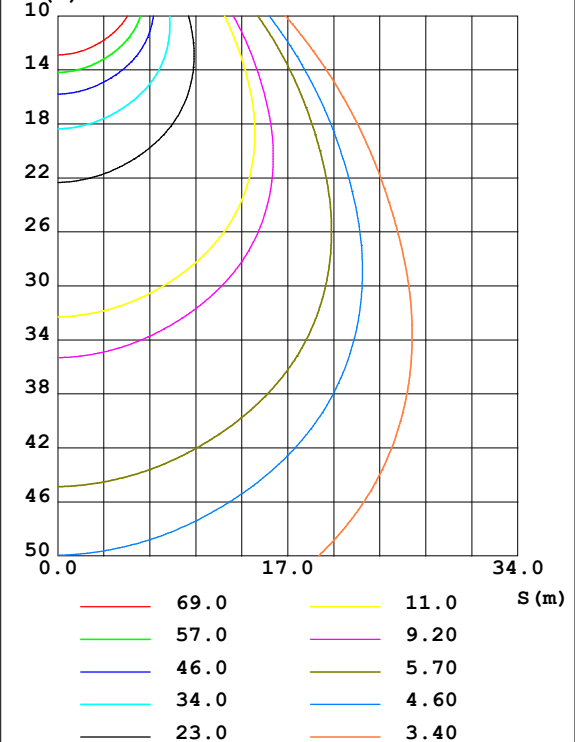
Test:U:218.34V I:0.9408A P:197.53W PF:0.9615 Freq:49.99Hz Lamp Flux:25722.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.22 lm/W			
MODEL		I _{max} (cd)	11484	S/MH (C0/180)	1.29
NOMINAL POWER(W)	200W	LOR(%)	100.0	S/MH (C90/270)	1.26
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	25723	η UP,DN(C0-180)	1.2,47.2
NOMINAL FLUX(lm)	25722.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,50.6
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down (%)	97.7	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:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_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	1118	1115	1140	1111					0- 10	1078	1078	4.19,4.19
20	1055	1060	1089	1057					10- 20	3097	4176	16.2,16.2
30	942.5	964.9	1001	965.3					20- 30	4716	8891	34.6,34.6
40	730.2	764.2	821.4	791.2					30- 40	5520	14411	56,56
50	460.8	462.3	528.3	508.3					40- 50	4883	19294	75,75
60	240.0	229.4	288.2	261.2					50- 60	3267	22562	87.7,87.7
70	98.58	93.87	117.3	105.8					60- 70	1686	24247	94.3,94.3
80	31.43	31.88	37.36	34.56					70- 80	677.1	24925	96.9,96.9
90	8.585	8.499	8.527	8.210					80- 90	209.8	25134	97.7,97.7
100	7.351	7.262	5.443	5.363					90-100	71.35	25206	98,98
110	7.690	7.586	6.725	6.634					100-110	70.87	25277	98.3,98.3
120	8.756	8.625	8.364	8.283					110-120	77.34	25354	98.6,98.6
130	10.15	9.982	10.17	10.09					120-130	83.19	25437	98.9,98.9
140	11.68	11.49	11.96	11.87					130-140	84.47	25522	99.2,99.2
150	13.16	12.95	13.58	13.41					140-150	78.46	25600	99.5,99.5
160	14.53	14.35	14.97	14.74					150-160	64.49	25665	99.8,99.8
170	15.66	15.52	16.01	15.69					160-170	42.99	25708	99.9,99.9
180	16.15	16.13	16.39	15.94					170-180	15.19	25723	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 17029 lm

%lum = 66.2%

%lamp = 66.2%

Conical surface Flux(120deg): 22562 lm

%lum = 87.7%

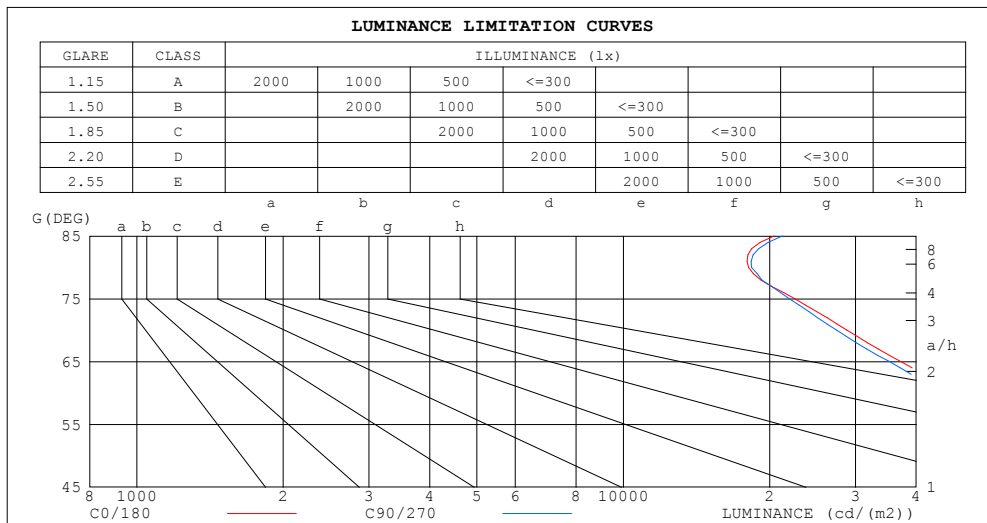
%lamp = 87.7%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.34V I:0.9408A P:197.53W PF:0.9615 Freq:49.99Hz Lamp Flux:25722.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	20440	21219
80	18098	18358
75	22497	21940
70	28823	27446
65	37165	35228
60	48006	45872
55	59880	58449
50	71689	71914
45	83520	86231

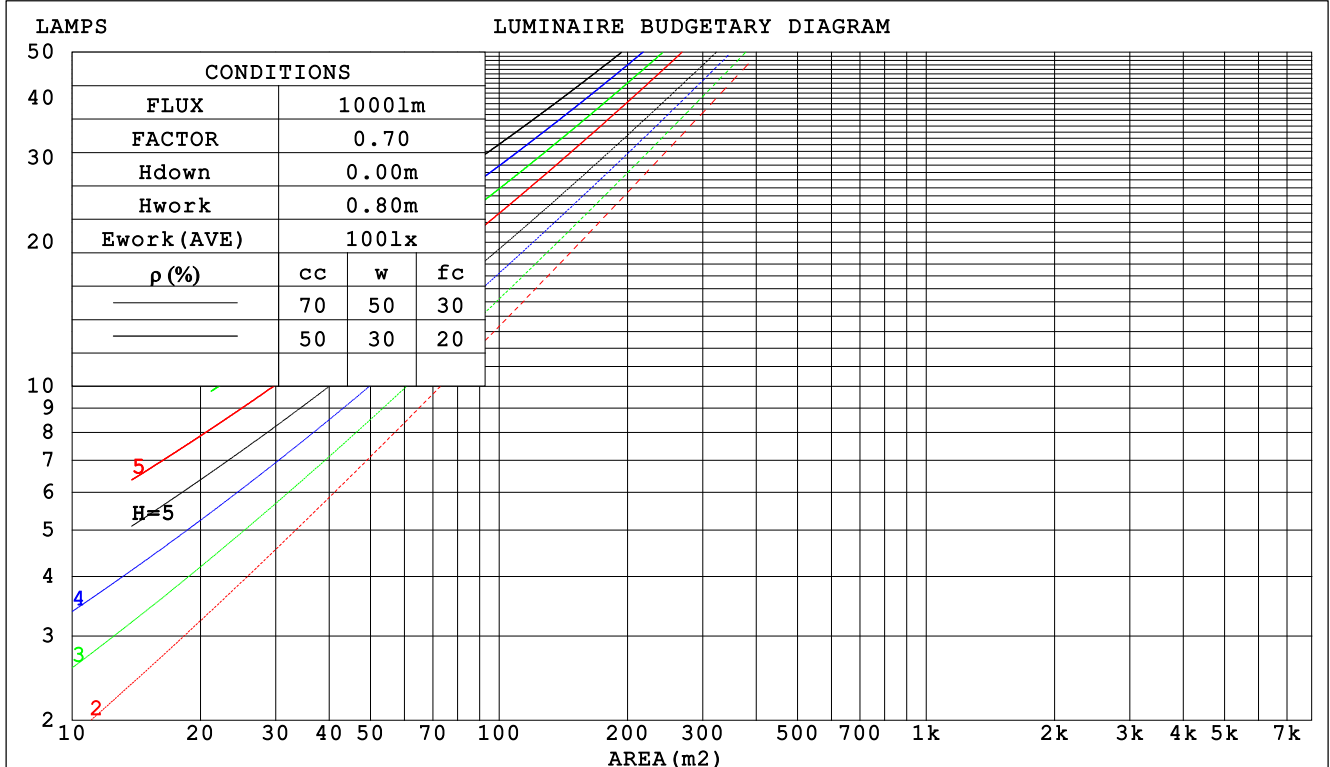
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:218.34V I:0.9408A P:197.53W PF:0.9615 Freq:49.99Hz Lamp Flux:25722.7x1 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	Coefficients of Utilization(CU)															
	RCR:Room Cavity Ratio															
0.0	1.19	1.19	1.19	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.06	1.03	.99	1.04	1.00	.98	.99	.96	.94	.95	.93	.91	.91	.89	.88	.86
2.0	.95	.89	.84	.93	.87	.83	.89	.84	.80	.85	.82	.78	.82	.79	.76	.74
3.0	.85	.77	.72	.83	.76	.71	.80	.74	.69	.77	.72	.68	.74	.70	.67	.65
4.0	.76	.68	.62	.75	.67	.62	.72	.66	.61	.69	.64	.60	.67	.62	.59	.57
5.0	.69	.60	.55	.67	.60	.54	.65	.58	.53	.63	.57	.53	.61	.56	.52	.50
6.0	.62	.54	.48	.61	.54	.48	.59	.52	.47	.57	.51	.47	.56	.50	.46	.44
7.0	.57	.49	.43	.56	.48	.43	.54	.47	.42	.53	.47	.42	.51	.46	.42	.40
8.0	.52	.44	.39	.51	.44	.39	.50	.43	.38	.48	.42	.38	.47	.42	.38	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.34	.44	.38	.34	.32
10.0	.44	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.41	.35	.31	.30



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.34V I:0.9408A P:197.53W PF:0.9615 Freq:49.99Hz Lamp Flux:25722.7x1 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	.257	.146	.046	.249	.142	.045	.235	.135	.043	.222	.128	.041	.209	.121	.039	
2.0	.247	.135	.042	.240	.132	.041	.228	.127	.039	.216	.121	.038	.206	.116	.037	
3.0	.233	.124	.037	.227	.122	.037	.216	.117	.036	.206	.113	.035	.197	.109	.034	
4.0	.219	.114	.033	.214	.112	.033	.204	.108	.032	.195	.105	.032	.187	.101	.031	
5.0	.206	.105	.030	.201	.103	.030	.192	.100	.029	.184	.097	.029	.177	.094	.028	
6.0	.193	.097	.028	.189	.096	.027	.181	.093	.027	.174	.090	.027	.167	.088	.026	
7.0	.182	.090	.025	.178	.089	.025	.171	.086	.025	.164	.084	.025	.158	.082	.024	
8.0	.171	.084	.024	.168	.083	.023	.162	.081	.023	.156	.079	.023	.150	.077	.022	
9.0	.162	.078	.022	.159	.077	.022	.153	.076	.021	.148	.074	.021	.142	.072	.021	
10.0	.153	.073	.020	.150	.073	.020	.145	.071	.020	.140	.070	.020	.136	.068	.020	

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	.208	.208	.208	.178	.178	.178	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.194	.174	.156	.166	.149	.134	.114	.103	.093	.065	.060	.054	.021	.019	.017	
2.0	.184	.150	.121	.158	.129	.105	.108	.089	.073	.062	.052	.043	.020	.017	.014	
3.0	.175	.132	.097	.150	.114	.084	.103	.079	.059	.060	.046	.035	.019	.015	.011	
4.0	.167	.118	.081	.144	.102	.070	.099	.071	.049	.057	.042	.029	.018	.014	.010	
5.0	.160	.108	.069	.137	.093	.060	.095	.065	.042	.055	.038	.025	.018	.012	.008	
6.0	.153	.099	.060	.132	.086	.052	.091	.060	.037	.053	.035	.022	.017	.012	.007	
7.0	.147	.092	.054	.126	.080	.047	.087	.056	.033	.051	.033	.020	.016	.011	.007	
8.0	.141	.086	.049	.121	.075	.042	.084	.053	.030	.049	.031	.018	.016	.010	.006	
9.0	.136	.081	.045	.117	.071	.039	.081	.050	.028	.047	.029	.017	.015	.010	.005	
10.0	.130	.077	.042	.112	.067	.036	.078	.047	.026	.045	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.250m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:218.34V I:0.9408A P:197.53W PF:0.9615 Freq:49.99Hz Lamp Flux:25722.7x1 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	26.2	27.6	26.5	27.8	28.0	26.2	27.5	26.5	27.8	28.0	
	3H	26.7	27.9	27.0	28.2	28.4	26.6	27.8	26.9	28.1	28.4
	4H	26.8	27.9	27.1	28.2	28.5	26.7	27.9	27.0	28.1	28.4
	6H	26.8	27.9	27.2	28.2	28.5	26.8	27.8	27.1	28.1	28.5
	8H	26.8	27.9	27.2	28.2	28.5	26.8	27.8	27.1	28.1	28.4
12H	26.8	27.8	27.2	28.2	28.5	26.8	27.8	27.1	28.1	28.4	
4H	2H	26.4	27.6	26.7	27.8	28.1	26.4	27.5	26.7	27.8	28.1
	3H	27.0	28.0	27.3	28.3	28.6	26.9	27.9	27.3	28.2	28.6
	4H	27.2	28.1	27.6	28.4	28.8	27.1	28.0	27.5	28.3	28.7
	6H	27.3	28.1	27.7	28.4	28.9	27.2	28.0	27.6	28.4	28.8
	8H	27.3	28.0	27.7	28.4	28.9	27.2	28.0	27.7	28.4	28.8
12H	27.3	28.0	27.8	28.4	28.9	27.3	28.0	27.7	28.4	28.8	
8H	4H	27.2	27.9	27.6	28.3	28.7	27.1	27.8	27.5	28.2	28.7
	6H	27.3	27.9	27.8	28.4	28.9	27.3	27.9	27.8	28.3	28.8
	8H	27.4	28.0	27.9	28.4	28.9	27.4	27.9	27.9	28.4	28.9
	12H	27.5	28.0	28.0	28.5	29.0	27.5	27.9	28.0	28.4	28.9
12H	4H	27.1	27.8	27.6	28.2	28.7	27.1	27.7	27.5	28.2	28.6
	6H	27.3	27.9	27.8	28.3	28.8	27.3	27.8	27.8	28.3	28.8
	8H	27.4	27.9	28.0	28.4	28.9	27.4	27.8	27.9	28.3	28.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.8					+ 0.7 / - 0.8					
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.4					
2.0H	+ 1.2 / - 1.3					+ 1.3 / - 1.3					

CIE Pub.117, 25723 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 11.3$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.34V I:0.9408A P:197.53W PF:0.9615 Freq:49.99Hz Lamp Flux:25722.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

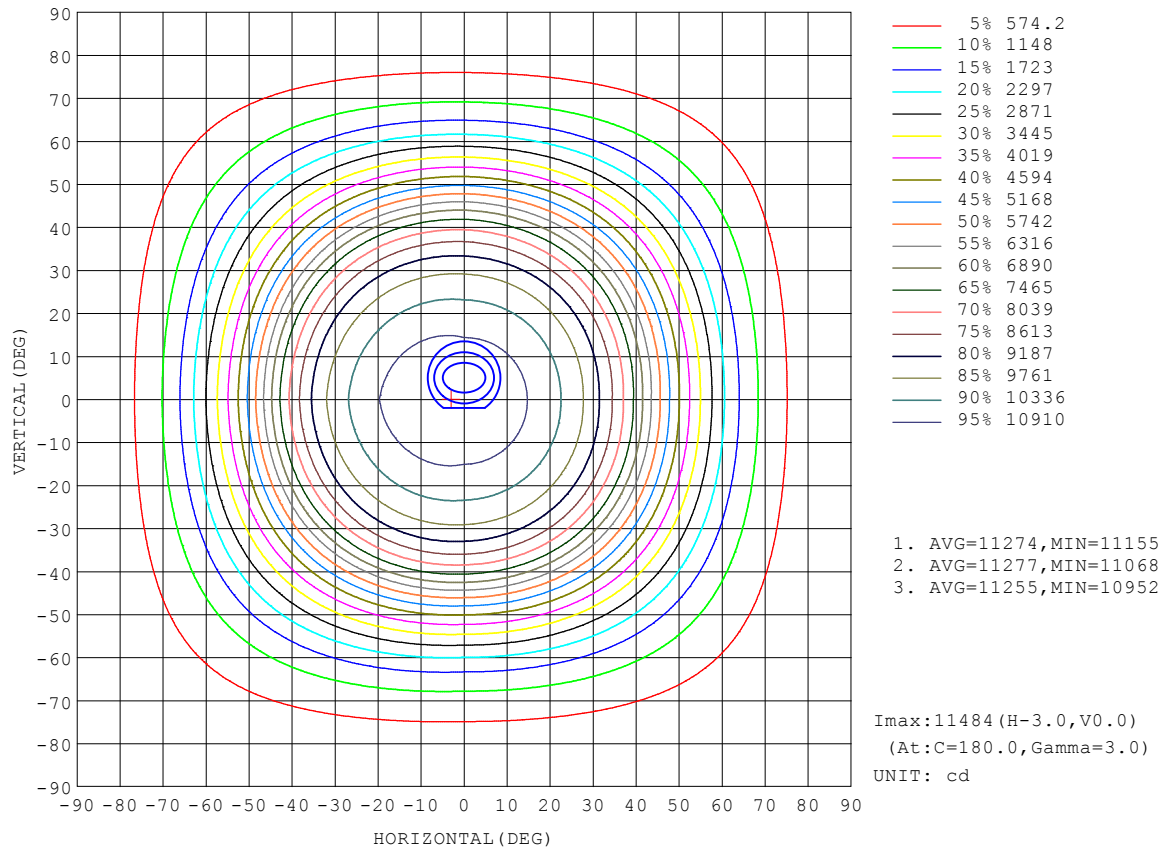
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	53	47	63	53	47	62	53	47	41
0.80	74	64	57	73	63	57	71	62	57	50
1.00	82	73	66	81	72	66	79	73	65	59
1.25	89	80	74	87	79	73	85	78	72	66
1.50	93	85	79	92	84	79	89	82	77	70
2.00	99	92	87	97	91	86	94	88	84	77
2.50	102	96	91	100	94	90	96	91	88	80
3.00	105	99	95	103	98	94	99	95	91	83
4.00	108	103	100	106	102	98	101	98	95	86
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: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:218.34V I:0.9408A P:197.53W PF:0.9615 Freq:49.99Hz Lamp Flux:25722.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

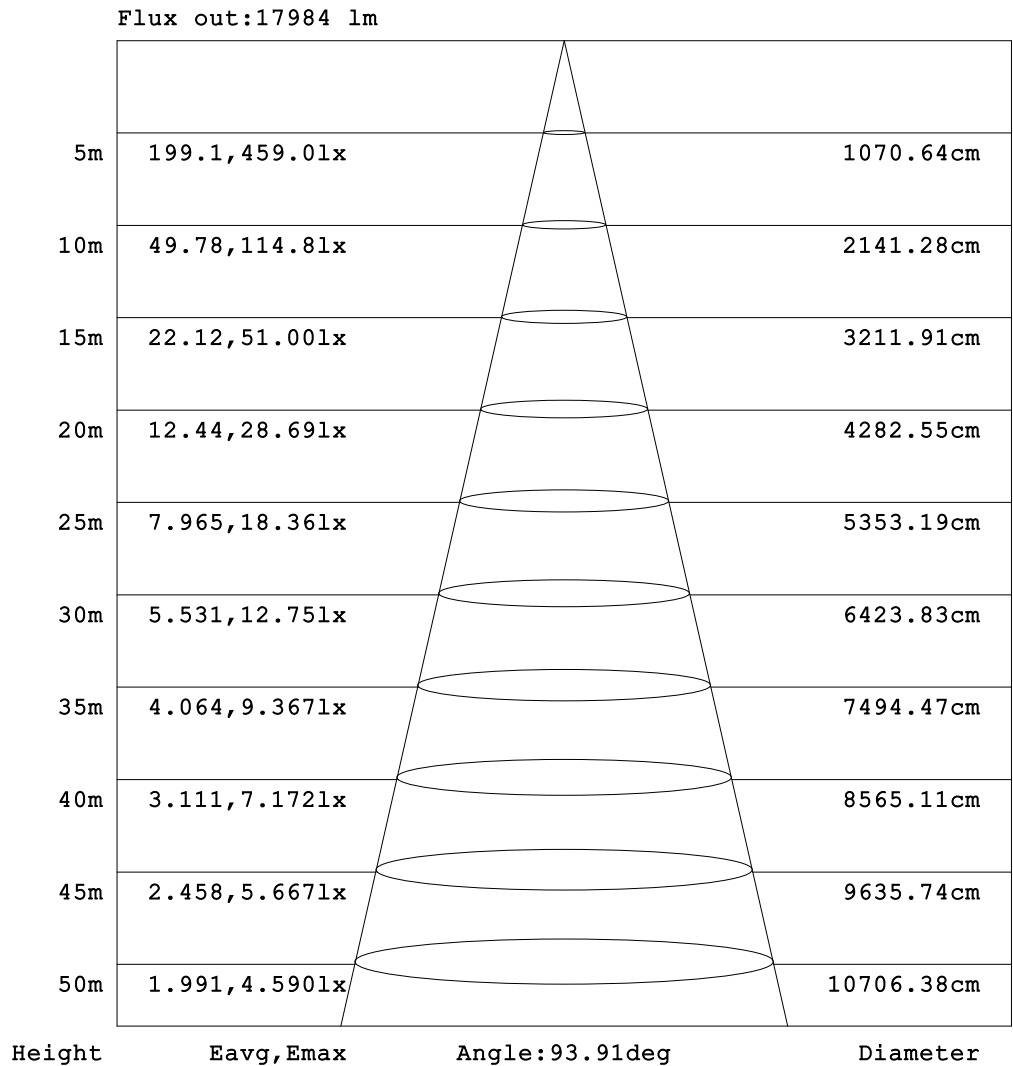


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:218.34V I:0.9408A P:197.53W PF:0.9615 Freq:49.99Hz Lamp Flux:25722.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



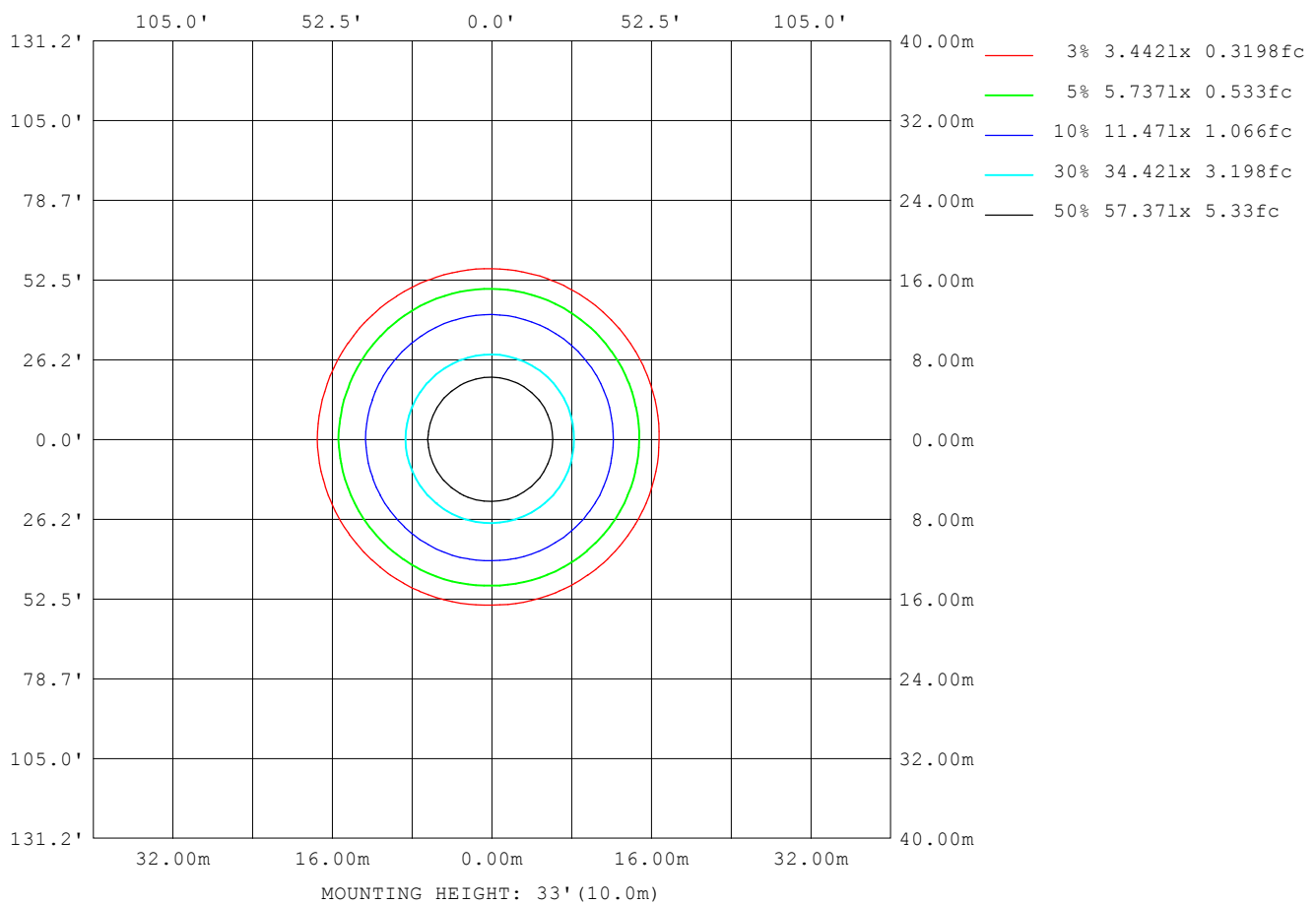
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.250m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:218.34V I:0.9408A P:197.53W PF:0.9615 Freq:49.99Hz Lamp Flux:25722.7x1 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:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:218.34V I:0.9408A P:197.53W PF:0.9615 Freq:49.99Hz Lamp Flux:25722.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

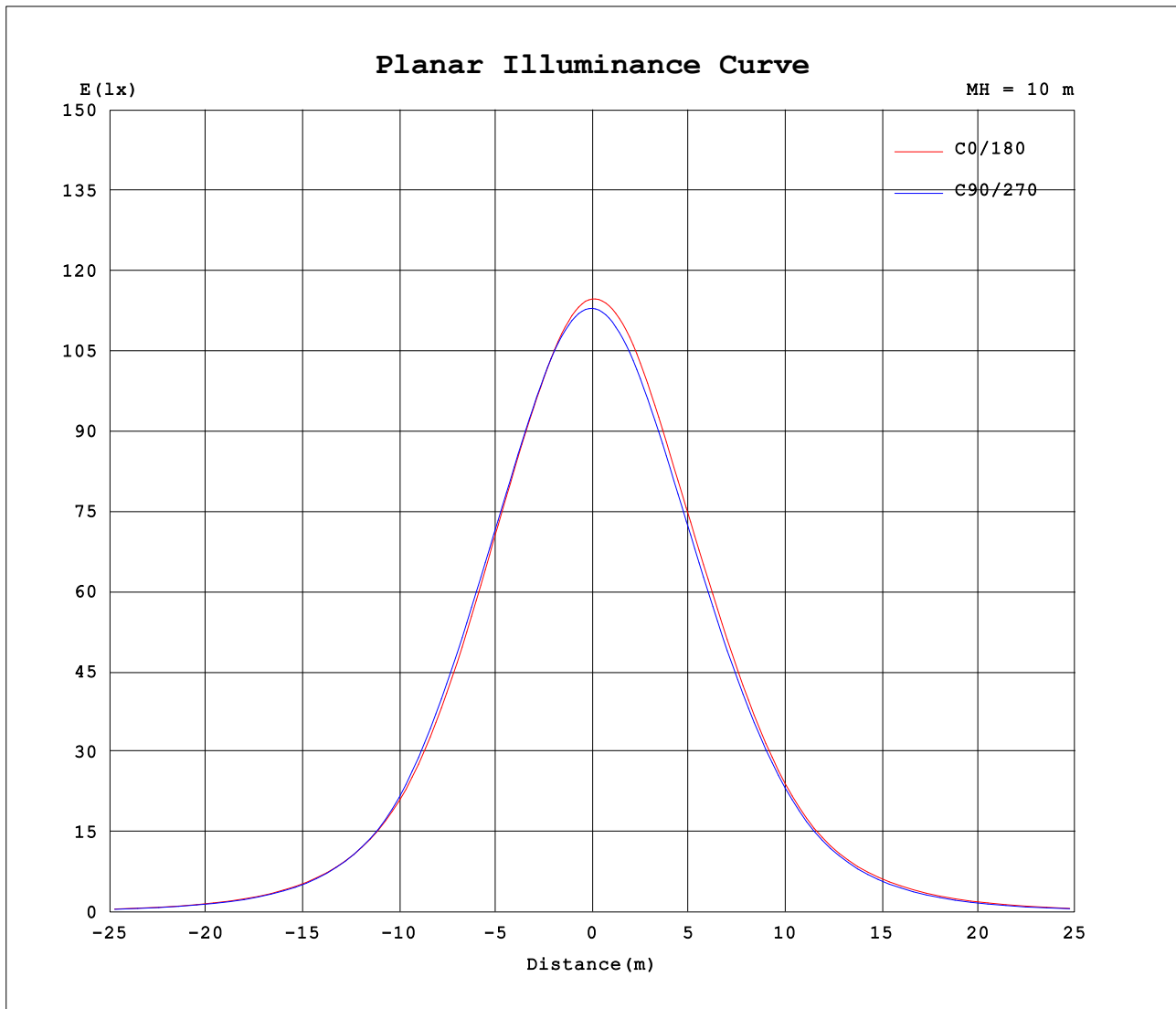
AvgL	cd/m2
L_0~180 (65) av	41162
L_0~180 (75) av	24639
L_0~180 (85) av	21287
L_90~270 (65) av	37722
L_90~270 (75) av	23262
L_90~270 (85) av	21290
L_45 (65) av	39262
L_45 (75) av	23913
L_45 (85) av	21341

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_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: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.34V I:0.9408A P:197.53W PF:0.9615 Freq:49.99Hz Lamp Flux:25722.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	90	180	270															
0	1147	1130	1147	1130															
5	1138	1127	1148	1124															
10	1118	1115	1140	1111															
15	1089	1092	1120	1087															
20	1055	1060	1089	1057															
25	1009	1020	1051	1018															
30	943	965	1001	965															
35	850	882	928	891															
40	730	764	821	791															
45	591	610	681	659															
50	461	462	528	508															
55	343	335	399	376															
60	240	229	288	261															
65	157	149	191	170															
70	98.6	93.9	117	106															
75	58.2	56.8	69.3	63.6															
80	31.4	31.9	37.4	34.6															
85	17.8	18.5	19.3	18.6															
90	8.58	8.50	8.53	8.21															
95	7.58	7.50	5.01	4.91															
100	7.35	7.26	5.44	5.36															
105	7.41	7.32	6.03	5.94															
110	7.69	7.59	6.72	6.63															
115	8.16	8.04	7.51	7.42															
120	8.76	8.63	8.36	8.28															
125	9.43	9.27	9.26	9.17															
130	10.2	9.98	10.2	10.1															
135	10.9	10.7	11.1	11.0															
140	11.7	11.5	12.0	11.9															
145	12.4	12.2	12.8	12.7															
150	13.2	12.9	13.6	13.4															
155	13.9	13.7	14.3	14.1															
160	14.5	14.3	15.0	14.7															
165	15.2	15.0	15.6	15.3															
170	15.7	15.5	16.0	15.7															
175	16.0	15.9	16.3	15.9															
180	16.2	16.1	16.4	15.9															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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