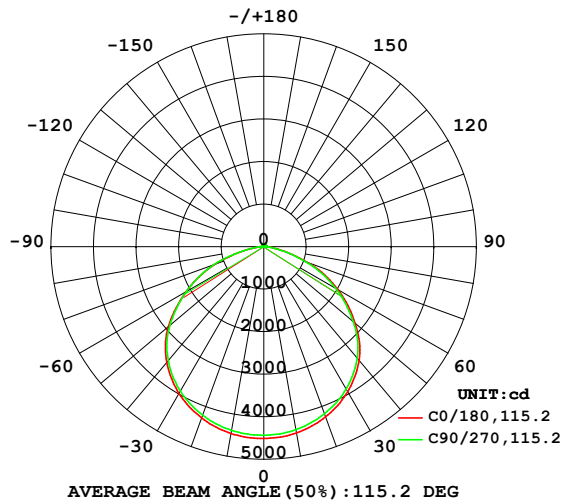


LUMINAIRE PHOTOMETRIC TEST REPORT

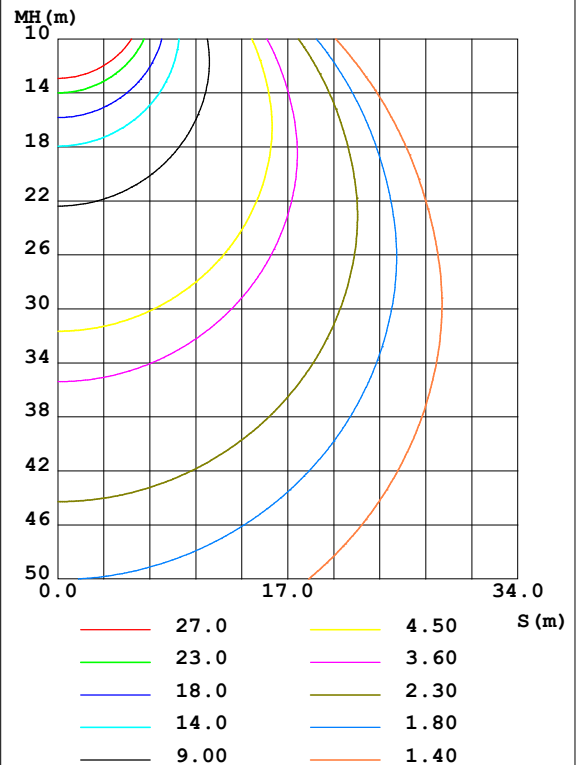
Test:U:218.57V I:0.4783A P:100.38W PF:0.9602 Freq:49.99Hz Lamp Flux:13310x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.59 lm/W			
MODEL		I _{max} (cd)	4509	S/MH (C0/180)	1.31
NOMINAL POWER (W)	100W	LOR (%)	100.0	S/MH (C90/270)	1.32
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	13310	η UP, DN (C0-180)	1.2, 47.8
NOMINAL FLUX (lm)	13310	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 49.9
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	220	η down (%)	97.7	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: 25.3DEG
Operators: Jason
Test Date: 2024-03-01

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	4444	4367	4459	4384					0- 10	424.1	424.1	3.19, 3.19
20	4256	4179	4283	4215					10- 20	1226	1650	12.4, 12.4
30	3942	3869	3986	3922					20- 30	1890	3540	26.6, 26.6
40	3488	3418	3548	3496					30- 40	2332	5871	44.1, 44.1
50	2806	2749	2928	2882					40- 50	2462	8333	62.6, 62.6
60	2007	1948	2109	2096					50- 60	2185	10518	79, 79
70	1103	1061	1235	1252					60- 70	1596	12114	91, 91
80	297.1	272.0	356.8	368.1					70- 80	738.3	12852	96.6, 96.6
90	59.02	55.66	42.73	44.07					80- 90	154.0	13006	97.7, 97.7
100	44.89	44.26	30.27	29.41					90-100	43.40	13049	98, 98
110	45.03	44.68	36.53	35.43					100-110	40.76	13090	98.3, 98.3
120	48.01	47.72	43.83	42.52					110-120	42.54	13133	98.7, 98.7
130	51.88	51.60	51.28	49.79					120-130	43.28	13176	99, 99
140	56.64	56.39	58.06	56.39					130-140	41.79	13218	99.3, 99.3
150	61.36	61.05	63.26	61.48					140-150	37.26	13255	99.6, 99.6
160	65.51	65.11	67.01	65.15					150-160	29.48	13284	99.8, 99.8
170	68.42	68.17	69.52	67.56					160-170	19.00	13303	100, 100
180	69.95	69.65	70.95	68.88					170-180	6.585	13310	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 7110.5 lm

%lum = 53.4%

%lamp = 53.4%

Conical surface Flux(120deg): 10518 lm

%lum = 79.0%

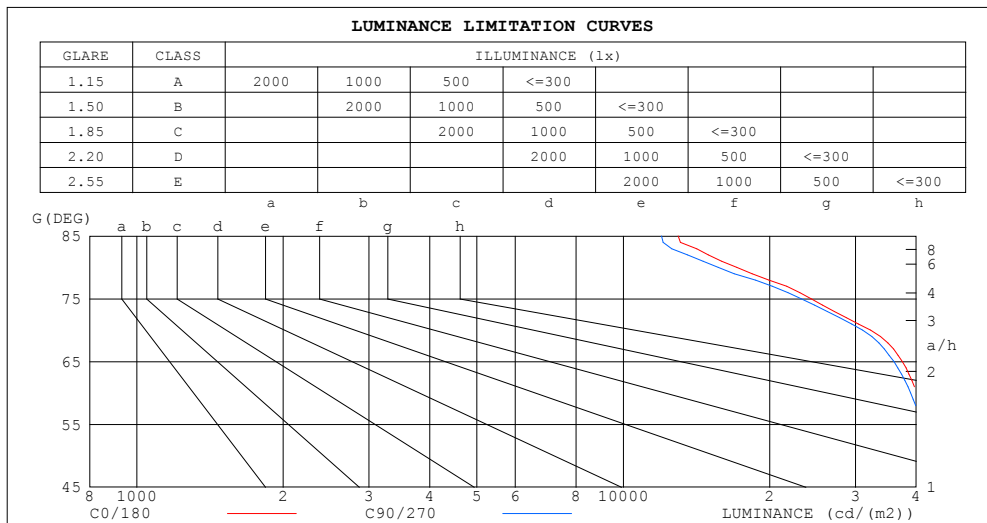
%lamp = 79.0%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

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:218.57V I:0.4783A P:100.38W PF:0.9602 Freq:49.99Hz Lamp Flux:13310x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	12976	11986
80	17111	15665
75	24316	23208
70	32240	31018
65	37458	35978
60	40140	38960
55	42090	41064
50	43652	42774
45	45019	44159

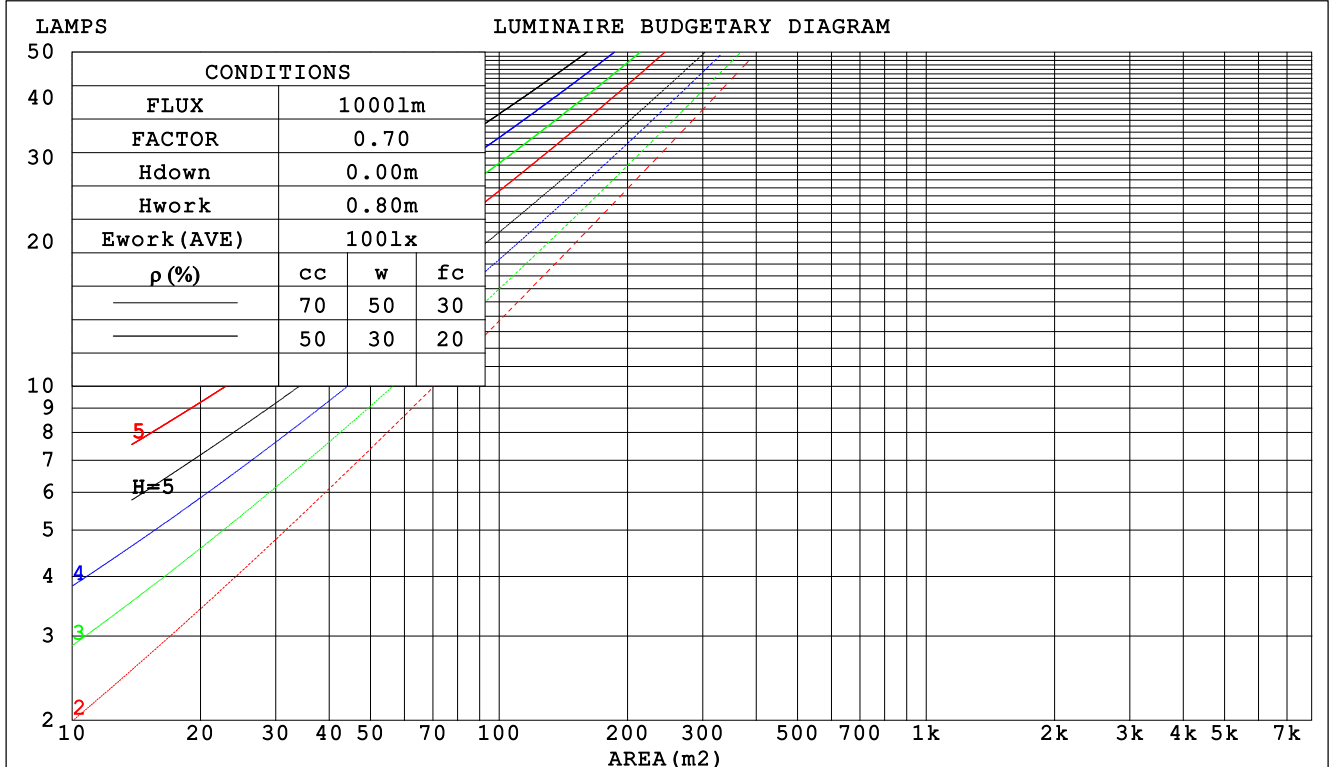
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

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:218.57V I:0.4783A P:100.38W PF:0.9602 Freq:49.99Hz Lamp Flux:13310x1 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	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.91	.84	.79	.89	.83	.77	.85	.80	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.80	.72	.65	.78	.71	.65	.75	.68	.63	.72	.66	.62	.69	.64	.60	.58
4.0	.71	.62	.55	.69	.61	.55	.66	.59	.54	.64	.58	.53	.61	.56	.52	.50
5.0	.63	.54	.48	.62	.53	.47	.59	.52	.46	.57	.51	.46	.55	.49	.45	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.43	.36	.50	.42	.36	.49	.41	.36	.47	.40	.35	.45	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.32	.42	.36	.31	.29
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.38	.32	.28	.26
10.0	.39	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

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:

WEC AND CCEC

Test:U:218.57V I:0.4783A P:100.38W PF:0.9602 Freq:49.99Hz Lamp Flux:13310x1 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	.296	.168	.053	.288	.164	.052	.274	.157	.050	.260	.150	.048	.248	.144	.046	
2.0	.283	.155	.048	.276	.152	.047	.263	.146	.045	.251	.141	.044	.240	.136	.043	
3.0	.264	.140	.042	.258	.138	.042	.246	.133	.041	.236	.129	.040	.226	.125	.039	
4.0	.245	.127	.037	.239	.125	.037	.229	.122	.036	.220	.118	.036	.211	.115	.035	
5.0	.227	.116	.034	.222	.114	.033	.213	.111	.033	.205	.108	.032	.197	.105	.032	
6.0	.211	.106	.030	.207	.105	.030	.199	.102	.030	.191	.099	.029	.184	.097	.029	
7.0	.197	.097	.028	.193	.096	.027	.186	.094	.027	.179	.092	.027	.173	.090	.026	
8.0	.184	.090	.025	.181	.089	.025	.174	.087	.025	.168	.085	.025	.162	.083	.024	
9.0	.173	.084	.023	.170	.083	.023	.164	.081	.023	.158	.079	.023	.153	.078	.022	
10.0	.163	.078	.022	.160	.077	.022	.154	.076	.021	.149	.074	.021	.145	.073	.021	

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	.197	.174	.153	.168	.149	.132	.115	.103	.091	.066	.059	.053	.021	.019	.017	
2.0	.189	.150	.117	.162	.129	.101	.111	.089	.070	.064	.052	.041	.020	.017	.013	
3.0	.181	.132	.093	.155	.114	.081	.107	.079	.057	.062	.046	.033	.020	.015	.011	
4.0	.174	.119	.077	.149	.103	.067	.102	.071	.047	.059	.042	.028	.019	.014	.009	
5.0	.166	.108	.066	.143	.094	.057	.098	.065	.040	.057	.038	.024	.018	.013	.008	
6.0	.159	.100	.057	.137	.087	.050	.095	.061	.035	.055	.036	.021	.018	.012	.007	
7.0	.153	.093	.051	.131	.081	.045	.091	.057	.032	.053	.033	.019	.017	.011	.006	
8.0	.146	.087	.047	.126	.076	.041	.087	.053	.029	.051	.031	.017	.016	.010	.006	
9.0	.140	.083	.043	.121	.072	.038	.084	.050	.027	.049	.030	.016	.016	.010	.005	
10.0	.135	.078	.041	.116	.068	.035	.081	.048	.025	.047	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-03-01

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:218.57V I:0.4783A P:100.38W PF:0.9602 Freq:49.99Hz Lamp Flux:13310x1 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	25.8	27.2	26.1	27.5	27.7	25.7	27.1	26.0	27.4	27.6
3H	27.0	28.4	27.3	28.6	28.9	26.9	28.2	27.2	28.5	28.8
4H	27.3	28.6	27.7	28.9	29.2	27.2	28.5	27.5	28.8	29.1
6H	27.5	28.7	27.8	29.0	29.3	27.3	28.5	27.7	28.8	29.1
8H	27.5	28.6	27.9	29.0	29.3	27.3	28.5	27.7	28.8	29.1
12H	27.5	28.6	27.9	28.9	29.3	27.3	28.4	27.7	28.7	29.1
4H 2H	26.3	27.6	26.6	27.9	28.2	26.2	27.5	26.5	27.8	28.1
3H	27.7	28.8	28.1	29.1	29.5	27.6	28.7	27.9	29.0	29.4
4H	28.1	29.1	28.5	29.5	29.8	27.9	29.0	28.4	29.3	29.7
6H	28.3	29.2	28.7	29.6	30.0	28.1	29.0	28.6	29.4	29.8
8H	28.3	29.2	28.8	29.6	30.0	28.2	29.0	28.6	29.4	29.8
12H	28.3	29.1	28.8	29.5	30.0	28.2	28.9	28.6	29.4	29.8
8H 4H	28.2	29.0	28.6	29.4	29.9	28.1	28.9	28.5	29.3	29.7
6H	28.5	29.1	28.9	29.6	30.1	28.3	29.0	28.8	29.5	29.9
8H	28.5	29.1	29.0	29.6	30.1	28.4	29.0	28.9	29.5	30.0
12H	28.6	29.1	29.1	29.6	30.1	28.4	28.9	28.9	29.4	30.0
12H 4H	28.2	28.9	28.6	29.3	29.8	28.0	28.8	28.5	29.2	29.7
6H	28.5	29.1	28.9	29.5	30.0	28.3	28.9	28.8	29.4	29.9
8H	28.5	29.1	29.1	29.6	30.1	28.4	28.9	28.9	29.4	29.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 13310 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 9.0$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

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:218.57V I:0.4783A P:100.38W PF:0.9602 Freq:49.99Hz Lamp Flux:13310x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

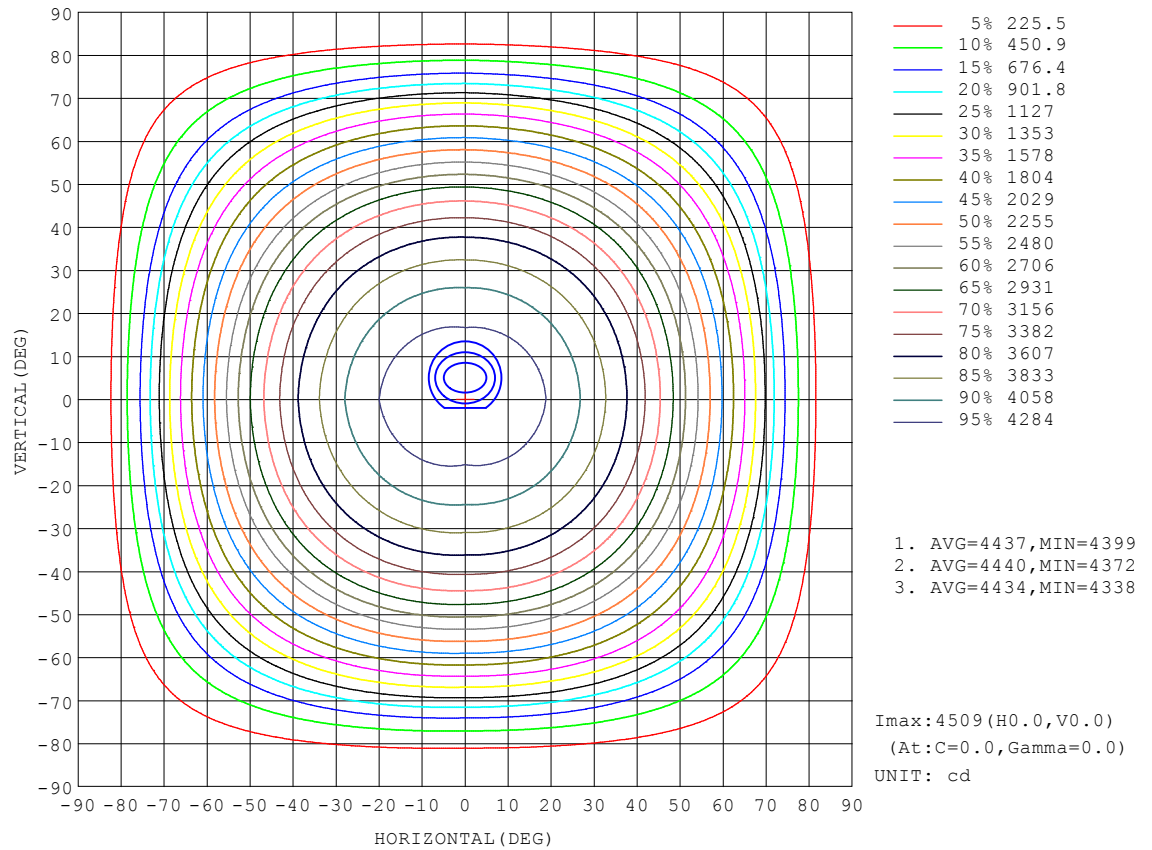
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	65	58	74	64	57	72	65	57	49
1.25	83	73	66	81	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	70	62
2.00	95	87	80	93	85	79	89	83	78	69
2.50	99	91	85	97	90	84	93	87	82	73
3.00	102	95	90	100	94	89	95	91	86	77
4.00	106	101	96	104	99	94	99	95	91	82
5.00	108	104	100	106	102	98	101	98	95	85
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:2024-03-01

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:218.57V I:0.4783A P:100.38W PF:0.9602 Freq:49.99Hz Lamp Flux:13310x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

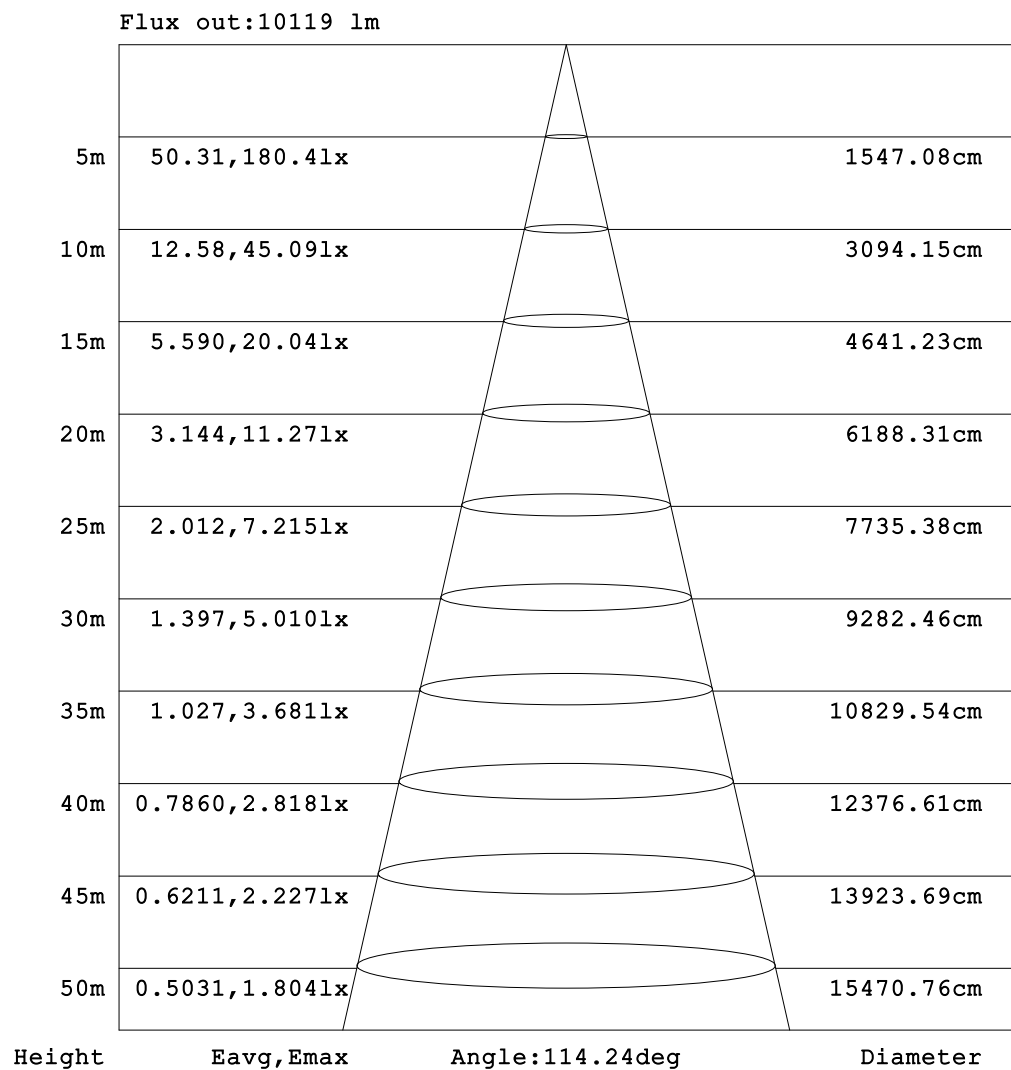


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-03-01

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:218.57V I:0.4783A P:100.38W PF:0.9602 Freq:49.99Hz Lamp Flux:13310x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



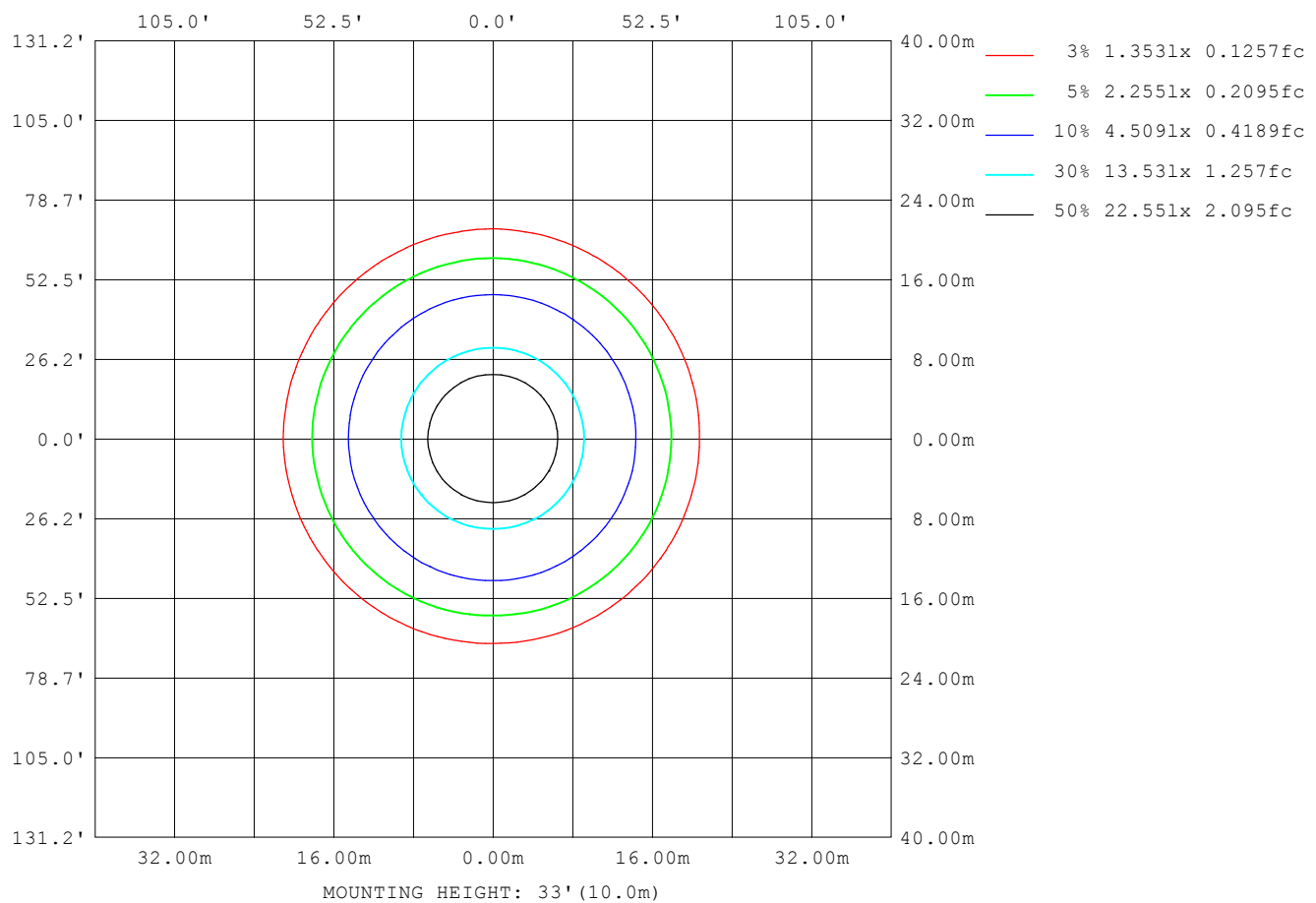
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

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:218.57V I:0.4783A P:100.38W PF:0.9602 Freq:49.99Hz Lamp Flux:13310x1 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: 2024-03-01

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:

LED Avg.L Report

Test:U:218.57V I:0.4783A P:100.38W PF:0.9602 Freq:49.99Hz Lamp Flux:13310x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

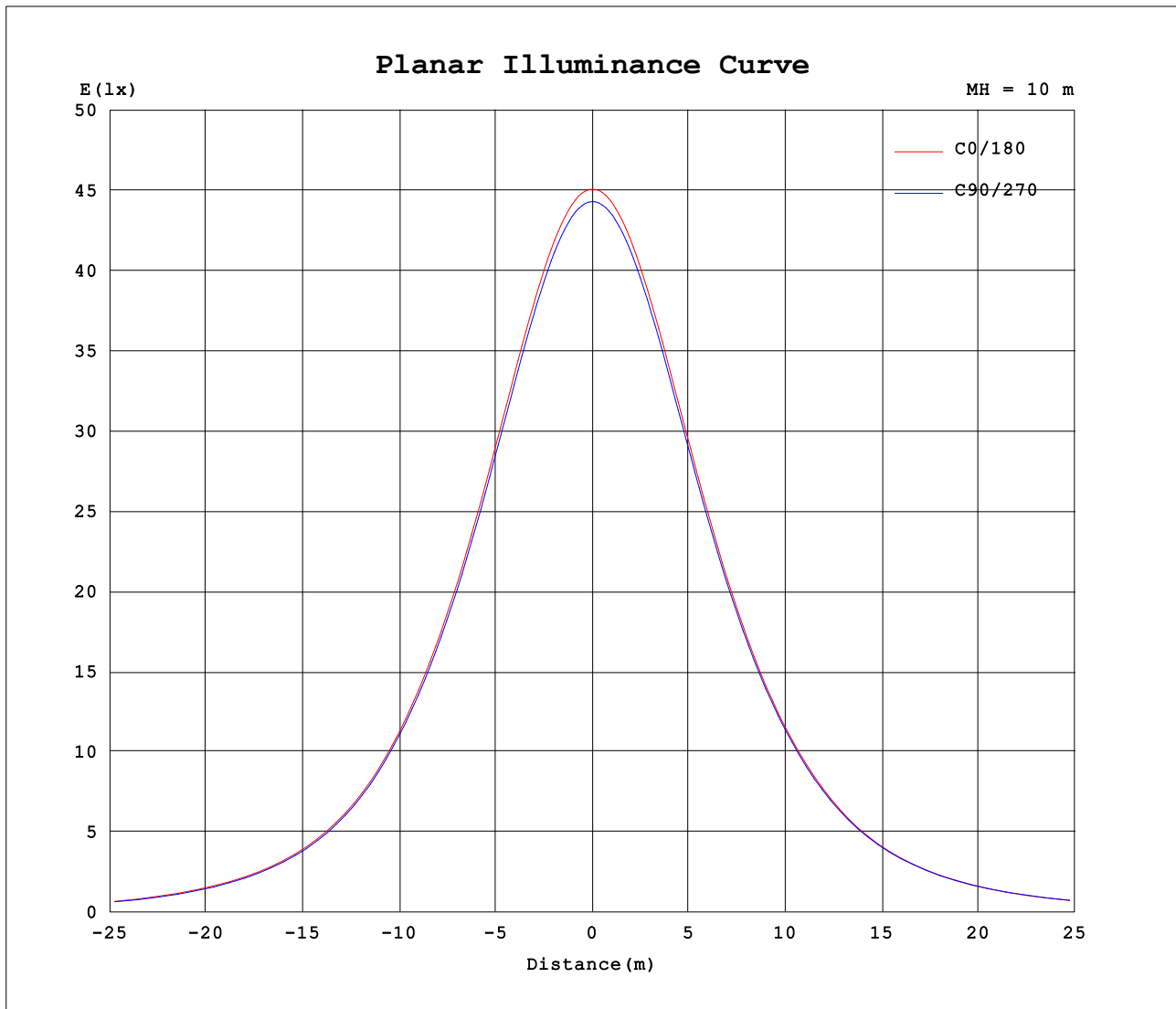
AvgL	cd/m2
L_0~180 (65) av	38636
L_0~180 (75) av	26179
L_0~180 (85) av	13487
L_90~270 (65) av	37973
L_90~270 (75) av	26017
L_90~270 (85) av	13415
L_45 (65) av	38295
L_45 (75) av	26194
L_45 (85) av	13474

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

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: 2024-03-01

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:218.57V I:0.4783A P:100.38W PF:0.9602 Freq:49.99Hz Lamp Flux:13310x1 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	4509	4432	4509	4432															
5	4493	4416	4499	4422															
10	4444	4367	4459	4384															
15	4365	4288	4387	4314															
20	4256	4179	4283	4215															
25	4115	4041	4149	4086															
30	3942	3869	3986	3922															
35	3733	3661	3785	3727															
40	3488	3418	3548	3496															
45	3183	3123	3271	3225															
50	2806	2749	2928	2882															
55	2414	2355	2520	2492															
60	2007	1948	2109	2096															
65	1583	1521	1683	1689															
70	1103	1061	1235	1252															
75	629	601	726	746															
80	297	272	357	368															
85	113	104	122	129															
90	59.0	55.7	42.7	44.1															
95	46.7	45.9	28.9	28.9															
100	44.9	44.3	30.3	29.4															
105	44.4	44.0	33.1	32.1															
110	45.0	44.7	36.5	35.4															
115	46.3	46.0	40.2	39.0															
120	48.0	47.7	43.8	42.5															
125	49.9	49.6	47.5	46.1															
130	51.9	51.6	51.3	49.8															
135	54.2	53.9	54.8	53.3															
140	56.6	56.4	58.1	56.4															
145	59.0	58.7	60.9	59.1															
150	61.4	61.1	63.3	61.5															
155	63.5	63.2	65.2	63.4															
160	65.5	65.1	67.0	65.1															
165	67.2	66.9	68.4	66.5															
170	68.4	68.2	69.5	67.6															
175	69.4	69.1	70.2	68.3															
180	70.0	69.6	70.9	68.9															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

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: