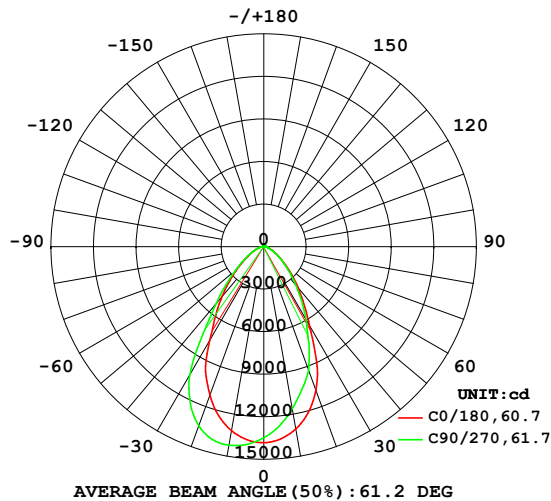


LUMINAIRE PHOTOMETRIC TEST REPORT

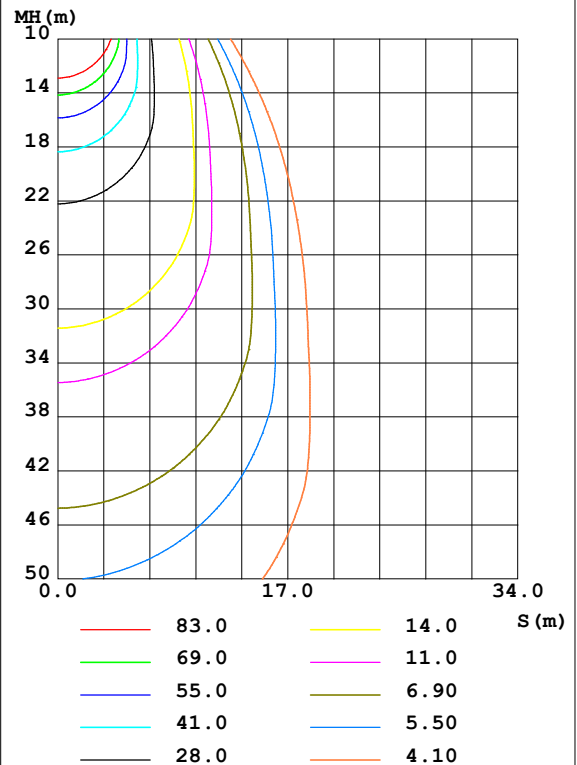
Test:U:218.62V I:0.4726A P:99.170W PF:0.9599 Freq:49.99Hz Lamp Flux:18174.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 183.26 lm/W			
MODEL		I _{max} (cd)	14223	S/MH (C0/180)	0.96
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.06
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	18174	η UP, DN (C0-180)	1.2, 42.8
NOMINAL FLUX (lm)	18174.3	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 55.0
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	97.7	CIBSE SHR MAX	1.00

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: 2024-12-14

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	1305	1160	1317	1422					0- 10	1272	1272	7,7
20	1077	923.9	1113	1342					10- 20	3427	4699	25.9,25.9
30	647.7	597.1	763.4	1045					20- 30	4345	9044	49.8,49.8
40	376.1	350.0	457.1	522.0					30- 40	3612	12656	69.6,69.6
50	200.4	188.2	244.8	263.7					40- 50	2437	15093	83,83
60	100.9	95.12	119.4	126.0					50- 60	1430	16523	90.9,90.9
70	45.82	43.85	56.53	58.20					60- 70	775.2	17298	95.2,95.2
80	17.04	16.54	24.68	22.49					70- 80	368.4	17666	97.2,97.2
90	4.838	4.703	3.330	3.221					80- 90	98.02	17764	97.7,97.7
100	4.268	4.233	3.735	3.666					90-100	43.23	17808	98,98
110	4.378	4.493	4.345	4.242					100-110	43.63	17851	98.2,98.2
120	5.195	5.683	5.389	5.141					110-120	47.65	17899	98.5,98.5
130	6.685	7.518	6.779	6.417					120-130	54.28	17953	98.8,98.8
140	8.517	9.561	8.388	8.007					130-140	59.60	18013	99.1,99.1
150	10.41	11.56	10.12	9.831					140-150	59.74	18073	99.4,99.4
160	12.18	13.23	11.69	11.68					150-160	52.38	18125	99.7,99.7
170	13.40	14.20	12.85	13.18					160-170	36.22	18161	99.9,99.9
180	13.69	14.29	13.74	14.26					170-180	13.06	18174	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 14016 lm

%lum = 77.1%

%lamp = 77.1%

Conical surface Flux(120deg): 16523 lm

%lum = 90.9%

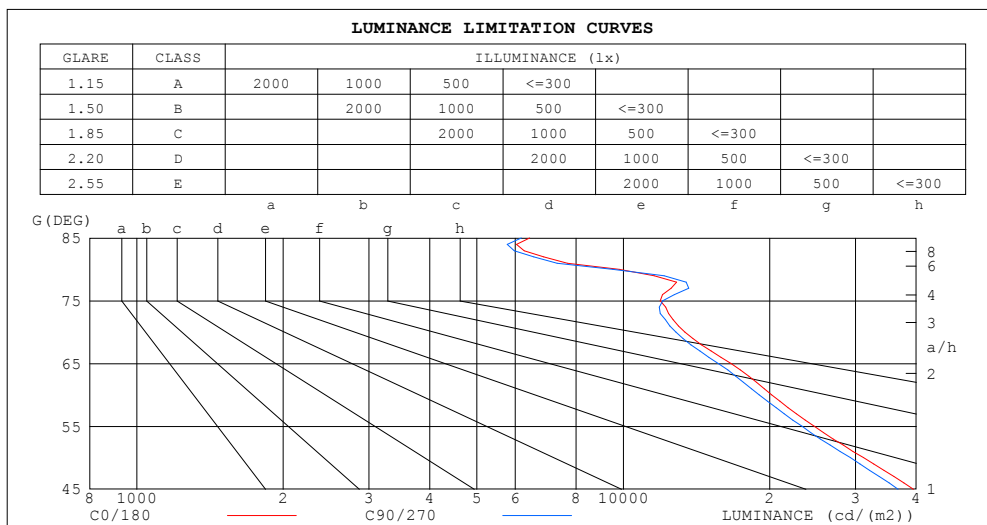
%lamp = 90.9%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.62V I:0.4726A P:99.170W PF:0.9599 Freq:49.99Hz Lamp Flux:18174.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6422	6170
80	9815	9526
75	11909	12050
70	13396	12822
65	16650	15681
60	20185	19024
55	24701	23294
50	31184	29283
45	39512	36728

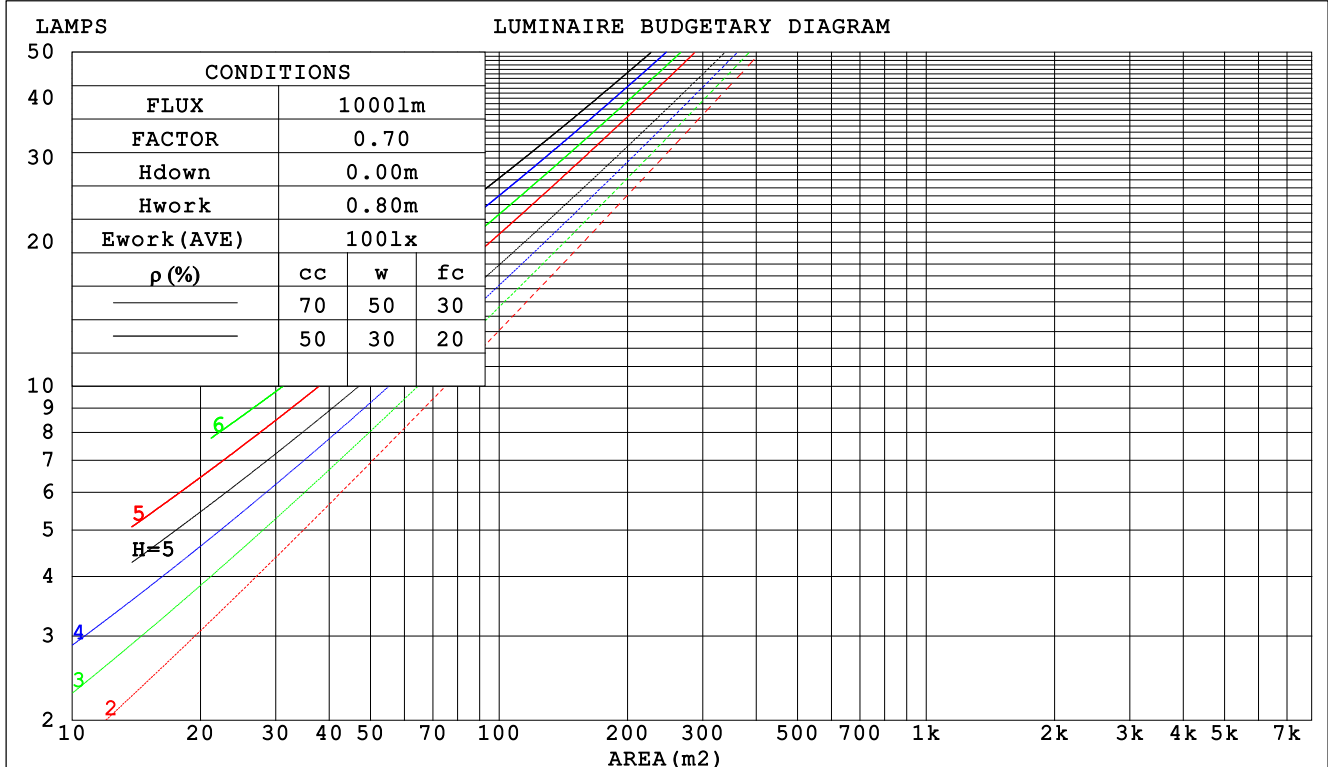
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.62V I:0.4726A P:99.170W PF:0.9599 Freq:49.99Hz Lamp Flux:18174.3x1 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	1.19	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	1.08	1.04	1.02	1.05	1.02	.00	1.01	.98	.96	.97	.95	.93	.93	.91	.90	.88
2.0	.98	.92	.88	.96	.91	.87	.92	.88	.85	.88	.85	.82	.85	.83	.80	.78
3.0	.89	.83	.78	.87	.81	.77	.84	.79	.75	.81	.77	.74	.79	.75	.72	.70
4.0	.81	.74	.69	.80	.73	.69	.77	.72	.67	.75	.70	.66	.73	.69	.65	.63
5.0	.75	.67	.62	.73	.67	.62	.71	.65	.61	.69	.64	.60	.67	.63	.59	.58
6.0	.69	.62	.56	.68	.61	.56	.66	.60	.55	.64	.59	.55	.63	.58	.54	.52
7.0	.64	.56	.51	.63	.56	.51	.61	.55	.51	.60	.54	.50	.58	.54	.50	.48
8.0	.59	.52	.47	.58	.52	.47	.57	.51	.47	.56	.50	.46	.55	.50	.46	.44
9.0	.55	.48	.44	.55	.48	.43	.53	.47	.43	.52	.47	.43	.51	.46	.43	.41
10.0	.52	.45	.40	.51	.45	.40	.50	.44	.40	.49	.44	.40	.48	.43	.40	.38



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:

WEC AND CCEC

Test:U:218.62V I:0.4726A P:99.170W PF:0.9599 Freq:49.99Hz Lamp Flux:18174.3x1 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	.227	.129	.041	.220	.125	.040	.206	.118	.038	.193	.111	.036	.181	.105	.034	
2.0	.218	.119	.037	.211	.116	.036	.199	.111	.034	.188	.105	.033	.177	.100	.032	
3.0	.206	.110	.033	.200	.107	.032	.189	.103	.031	.180	.098	.030	.170	.094	.029	
4.0	.194	.101	.030	.189	.099	.029	.179	.095	.028	.171	.092	.028	.163	.088	.027	
5.0	.183	.093	.027	.178	.091	.027	.170	.088	.026	.162	.086	.025	.155	.083	.025	
6.0	.172	.086	.025	.168	.085	.024	.161	.082	.024	.154	.080	.024	.147	.078	.023	
7.0	.163	.080	.023	.159	.079	.023	.153	.077	.022	.146	.075	.022	.140	.073	.021	
8.0	.154	.075	.021	.151	.074	.021	.145	.072	.021	.139	.071	.020	.134	.069	.020	
9.0	.146	.071	.020	.143	.070	.020	.138	.068	.019	.133	.067	.019	.128	.065	.019	
10.0	.139	.067	.018	.136	.066	.018	.131	.064	.018	.127	.063	.018	.122	.062	.018	

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	.177	.177	.177	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.192	.174	.158	.164	.149	.136	.112	.103	.094	.065	.060	.055	.021	.019	.018	
2.0	.180	.150	.124	.154	.129	.108	.106	.089	.075	.061	.052	.044	.020	.017	.014	
3.0	.170	.131	.101	.145	.113	.087	.100	.079	.061	.058	.046	.036	.019	.015	.012	
4.0	.161	.117	.084	.138	.101	.073	.095	.071	.051	.055	.041	.030	.018	.013	.010	
5.0	.153	.106	.072	.131	.092	.063	.091	.064	.044	.052	.038	.026	.017	.012	.009	
6.0	.146	.098	.063	.125	.084	.055	.087	.059	.039	.050	.035	.023	.016	.011	.008	
7.0	.140	.090	.056	.120	.078	.049	.083	.055	.035	.048	.032	.021	.016	.011	.007	
8.0	.134	.084	.051	.115	.073	.044	.080	.051	.031	.046	.030	.019	.015	.010	.006	
9.0	.128	.079	.046	.111	.069	.040	.077	.048	.029	.045	.029	.017	.014	.009	.006	
10.0	.123	.075	.043	.106	.065	.037	.074	.046	.027	.043	.027	.016	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-12-14

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:218.62V I:0.4726A P:99.170W PF:0.9599 Freq:49.99Hz Lamp Flux:18174.3x1 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	11.9	13.0	12.1	13.2	13.5	11.6	12.8	11.9	13.0	13.2
3H	12.3	13.4	12.6	13.7	13.9	12.1	13.2	12.4	13.4	13.7
4H	12.5	13.5	12.8	13.8	14.1	12.3	13.3	12.6	13.6	13.8
6H	12.7	13.6	13.0	13.9	14.2	12.5	13.4	12.8	13.7	14.0
8H	12.7	13.6	13.0	13.9	14.2	12.5	13.4	12.8	13.7	14.0
12H	12.6	13.5	13.0	13.8	14.2	12.4	13.3	12.8	13.6	14.0
4H 2H	12.0	13.0	12.3	13.3	13.6	11.8	12.8	12.1	13.1	13.4
3H	12.6	13.5	13.0	13.8	14.2	12.4	13.3	12.8	13.6	13.9
4H	12.9	13.7	13.3	14.1	14.4	12.7	13.5	13.1	13.9	14.2
6H	13.2	13.9	13.6	14.3	14.7	13.0	13.7	13.5	14.1	14.5
8H	13.2	13.8	13.6	14.2	14.7	13.0	13.7	13.5	14.1	14.5
12H	13.2	13.8	13.6	14.2	14.6	13.0	13.6	13.5	14.0	14.5
8H 4H	13.0	13.6	13.4	14.0	14.5	12.8	13.5	13.3	13.9	14.3
6H	13.3	13.9	13.8	14.3	14.8	13.2	13.7	13.7	14.2	14.7
8H	13.4	13.8	13.9	14.3	14.8	13.2	13.7	13.7	14.2	14.7
12H	13.4	13.8	13.9	14.3	14.8	13.2	13.7	13.8	14.1	14.7
12H 4H	13.0	13.6	13.4	14.0	14.4	12.8	13.4	13.3	13.8	14.3
6H	13.3	13.8	13.8	14.3	14.8	13.2	13.7	13.7	14.1	14.6
8H	13.4	13.8	13.9	14.3	14.8	13.2	13.6	13.7	14.1	14.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.9					+ 0.7 / - 0.9				
1.5H	+ 0.7 / - 0.6					+ 0.6 / - 0.5				
2.0H	+ 1.5 / - 1.1					+ 1.4 / - 1.0				

CIE Pub.117, 18174 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:2024-12-14

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:218.62V I:0.4726A P:99.170W PF:0.9599 Freq:49.99Hz Lamp Flux:18174.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

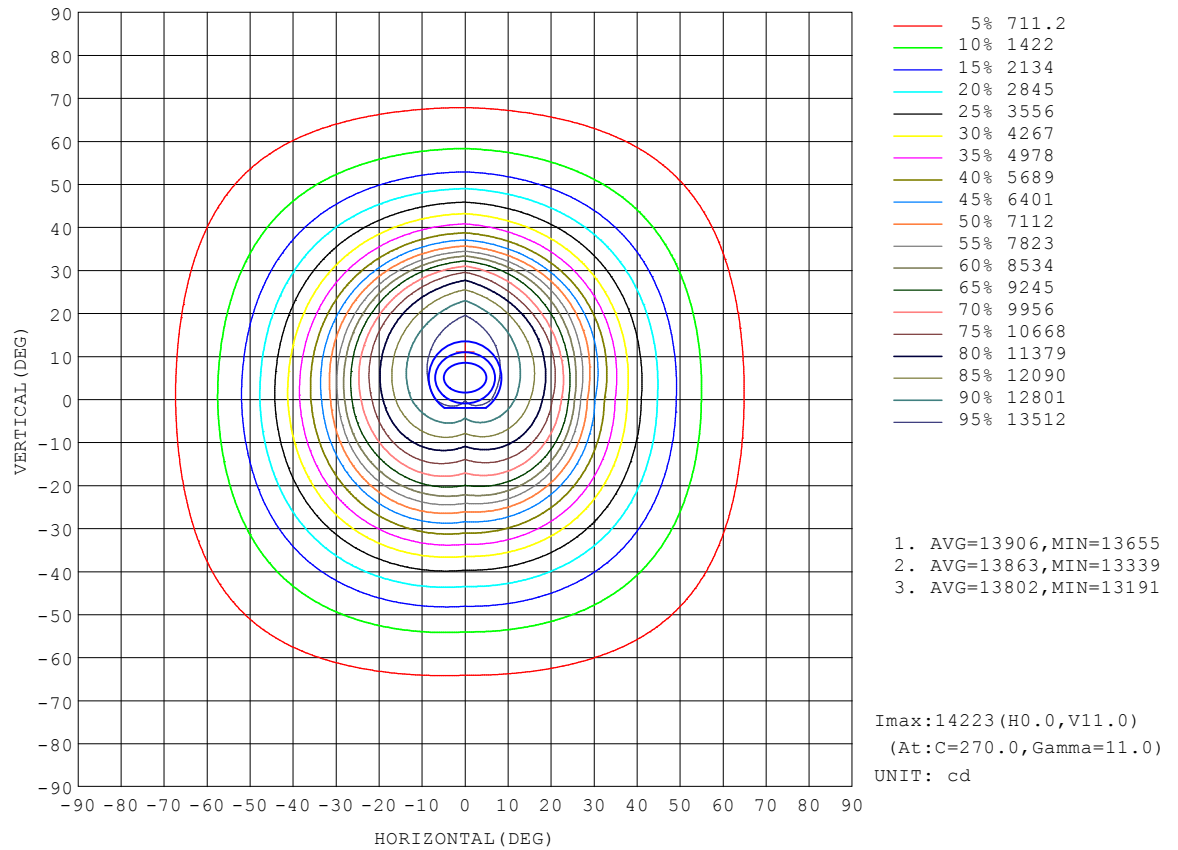
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	64	58	72	63	58	71	63	58	53
0.80	82	73	68	81	73	67	79	72	67	62
1.00	88	80	75	87	80	75	85	80	74	68
1.25	94	86	81	93	86	81	90	84	80	74
1.50	98	91	86	96	90	85	93	88	84	78
2.00	102	96	92	101	95	91	97	93	89	82
2.50	105	99	95	103	98	94	99	95	92	85
3.00	107	102	98	105	101	97	101	98	95	87
4.00	110	106	103	108	104	101	103	101	98	90
5.00	112	108	105	109	106	104	105	102	100	91
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: 2024-12-14

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:218.62V I:0.4726A P:99.170W PF:0.9599 Freq:49.99Hz Lamp Flux:18174.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

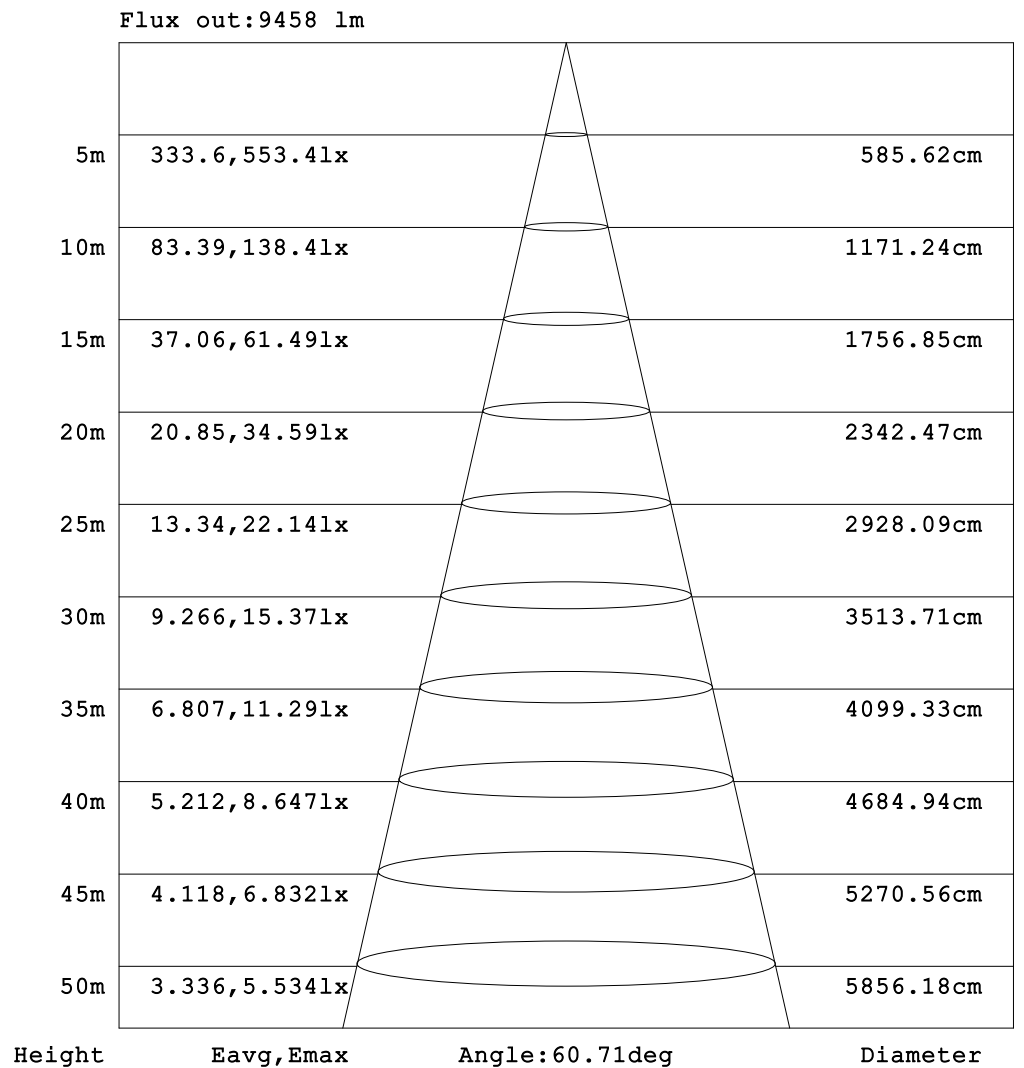


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.62V I:0.4726A P:99.170W PF:0.9599 Freq:49.99Hz Lamp Flux:18174.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



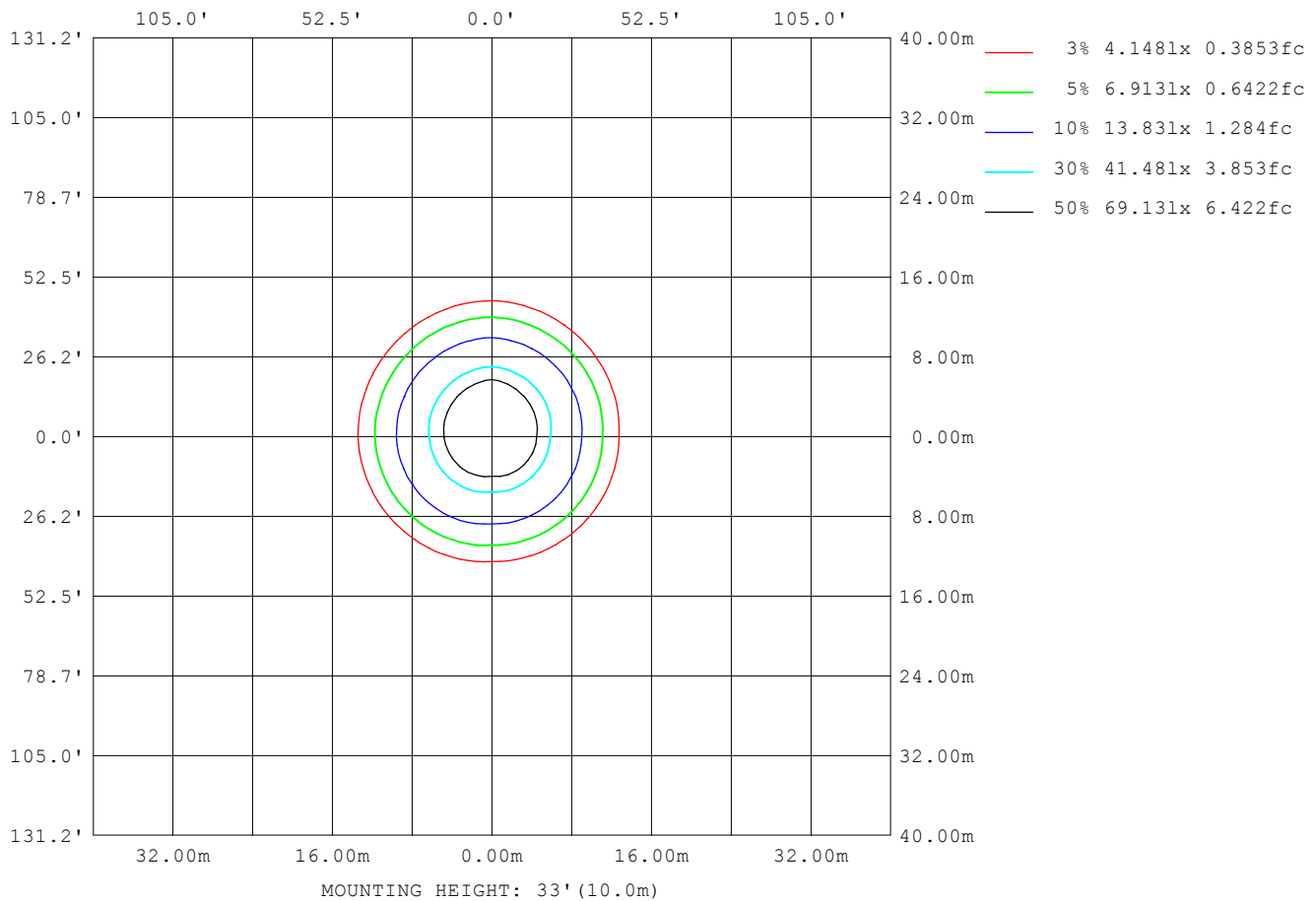
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.62V I:0.4726A P:99.170W PF:0.9599 Freq:49.99Hz Lamp Flux:18174.3x1 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:2024-12-14

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:218.62V I:0.4726A P:99.170W PF:0.9599 Freq:49.99Hz Lamp Flux:18174.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

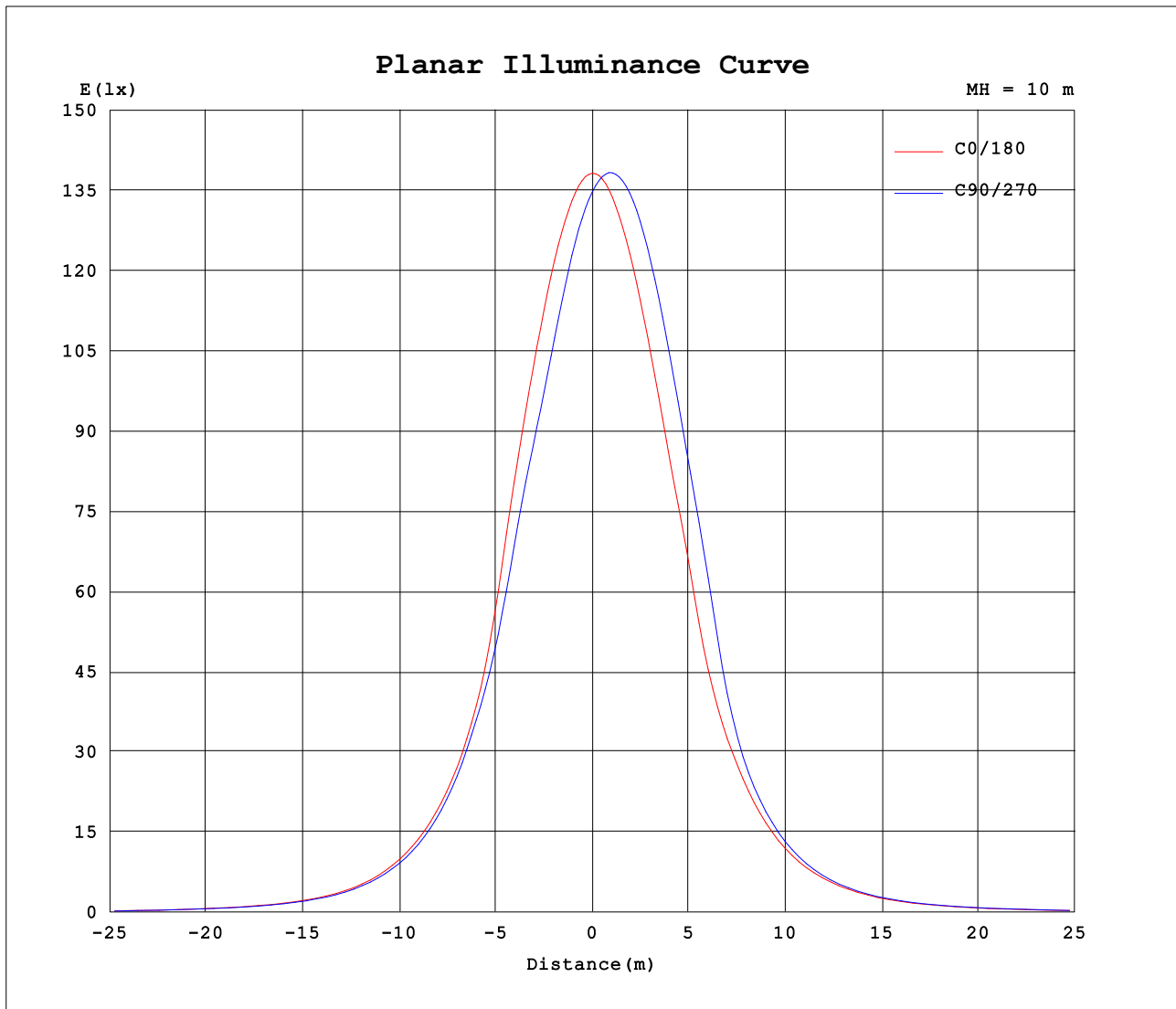
AvgL	cd/m2
L_0~180 (65) av	18330
L_0~180 (75) av	13001
L_0~180 (85) av	8079
L_90~270 (65) av	18338
L_90~270 (75) av	13154
L_90~270 (85) av	7799
L_45 (65) av	18440
L_45 (75) av	13165
L_45 (85) av	8008

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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: 2024-12-14

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:218.62V I:0.4726A P:99.170W PF:0.9599 Freq:49.99Hz Lamp Flux:18174.3x1 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	1382	1347	1382	1347															
5	1361	1269	1367	1399															
10	1305	1160	1317	1422															
15	1212	1043	1234	1408															
20	1077	924	1113	1342															
25	876	753	972	1224															
30	648	597	763	1045															
35	495	464	592	745															
40	376	350	457	522															
45	279	260	339	376															
50	200	188	245	264															
55	142	134	172	182															
60	101	95.1	119	126															
65	70.4	66.3	84.6	88.7															
70	45.8	43.9	56.5	58.2															
75	30.8	31.2	36.5	36.9															
80	17.0	16.5	24.7	22.5															
85	5.60	5.38	8.49	8.22															
90	4.84	4.70	3.33	3.22															
95	4.48	4.39	3.49	3.41															
100	4.27	4.23	3.73	3.67															
105	4.24	4.27	3.98	3.91															
110	4.38	4.49	4.34	4.24															
115	4.69	4.96	4.82	4.65															
120	5.19	5.68	5.39	5.14															
125	5.87	6.56	6.04	5.73															
130	6.68	7.52	6.78	6.42															
135	7.58	8.53	7.56	7.18															
140	8.52	9.56	8.39	8.01															
145	9.47	10.6	9.25	8.90															
150	10.4	11.6	10.1	9.83															
155	11.3	12.5	11.0	10.8															
160	12.2	13.2	11.7	11.7															
165	12.9	13.8	12.3	12.5															
170	13.4	14.2	12.9	13.2															
175	13.7	14.4	13.4	13.8															
180	13.7	14.3	13.7	14.3															

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