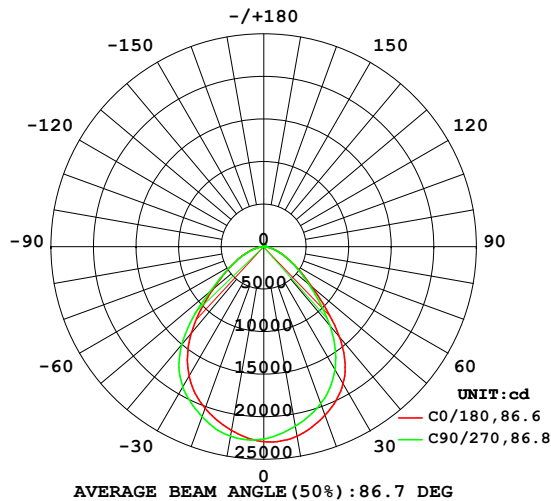


LUMINAIRE PHOTOMETRIC TEST REPORT

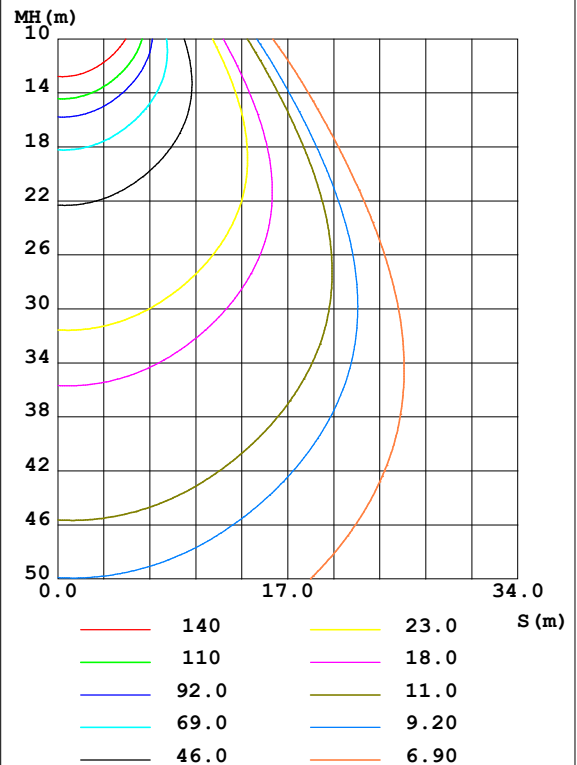
Test:U:218.51V I:1.3826A P:297.24W PF:0.9839 Freq:58.98Hz Lamp Flux:45806.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 154.10 lm/W			
MODEL		I _{max} (cd)	22971	S/MH (C0/180)	1.15
NOMINAL POWER(W)	300	LOR(%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	45807	η UP,DN(C0-180)	1.2,47.4
NOMINAL FLUX(lm)	45806.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,50.4
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down (%)	97.7	CIBSE SHR MAX	1.25

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:2024-12-17

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	2260	2142	2193	2262					0- 10	2142	2142	4.68, 4.68
20	2107	1963	2021	2126					10- 20	6046	8188	17.9, 17.9
30	1864	1673	1756	1904					20- 30	8931	17119	37.4, 37.4
40	1383	1211	1324	1500					30- 40	9980	27098	59.2, 59.2
50	743.5	699.1	784.3	830.2					40- 50	8088	35186	76.8, 76.8
60	394.7	387.5	429.5	427.3					50- 60	5069	40255	87.9, 87.9
70	185.9	187.7	209.4	200.3					60- 70	2905	43161	94.2, 94.2
80	55.73	54.11	70.40	67.89					70- 80	1320	44480	97.1, 97.1
90	14.47	14.05	8.715	8.439					80- 90	273.5	44754	97.7, 97.7
100	12.70	12.52	10.07	9.743					90-100	122.4	44876	98, 98
110	13.07	13.27	12.35	11.92					100-110	125.2	45001	98.2, 98.2
120	14.91	15.40	15.17	14.57					110-120	136.6	45138	98.5, 98.5
130	17.55	18.26	18.44	17.63					120-130	147.3	45285	98.9, 98.9
140	20.68	21.54	21.72	20.81					130-140	151.3	45436	99.2, 99.2
150	23.92	24.66	24.76	23.90					140-150	142.6	45579	99.5, 99.5
160	26.94	27.48	27.56	26.75					150-160	118.9	45698	99.8, 99.8
170	29.36	29.65	29.90	29.15					160-170	80.22	45778	99.9, 99.9
180	30.46	30.43	30.69	30.25					170-180	28.61	45807	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 31550 lm

%lum = 68.9%

%lamp = 68.9%

Conical surface Flux(120deg): 40255 lm

%lum = 87.9%

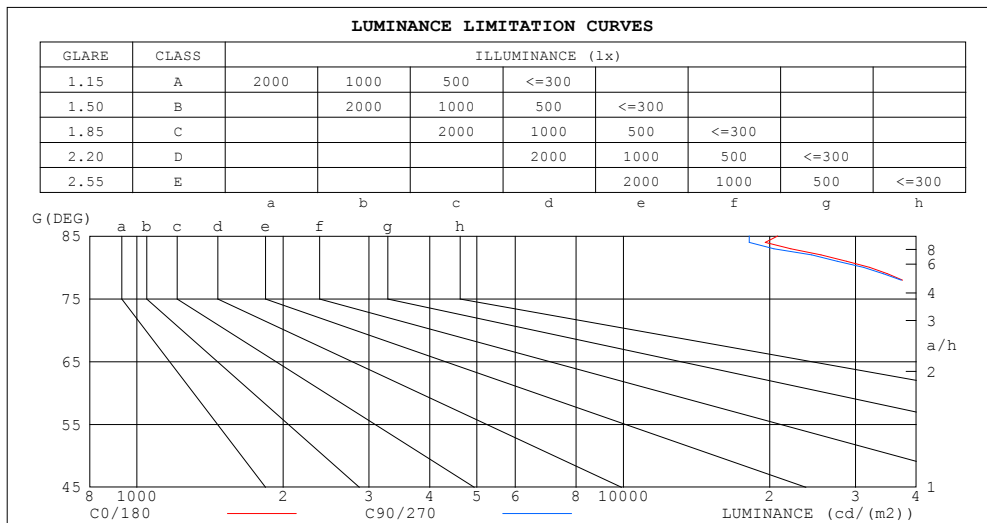
%lamp = 87.9%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-17

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:218.51V I:1.3826A P:297.24W PF:0.9839 Freq:58.98Hz Lamp Flux:45806.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	20765	18140
80	32093	31162
75	44743	45204
70	54346	54879
65	65345	65200
60	78933	77494
55	94494	91260
50	115662	108758
45	147013	131971

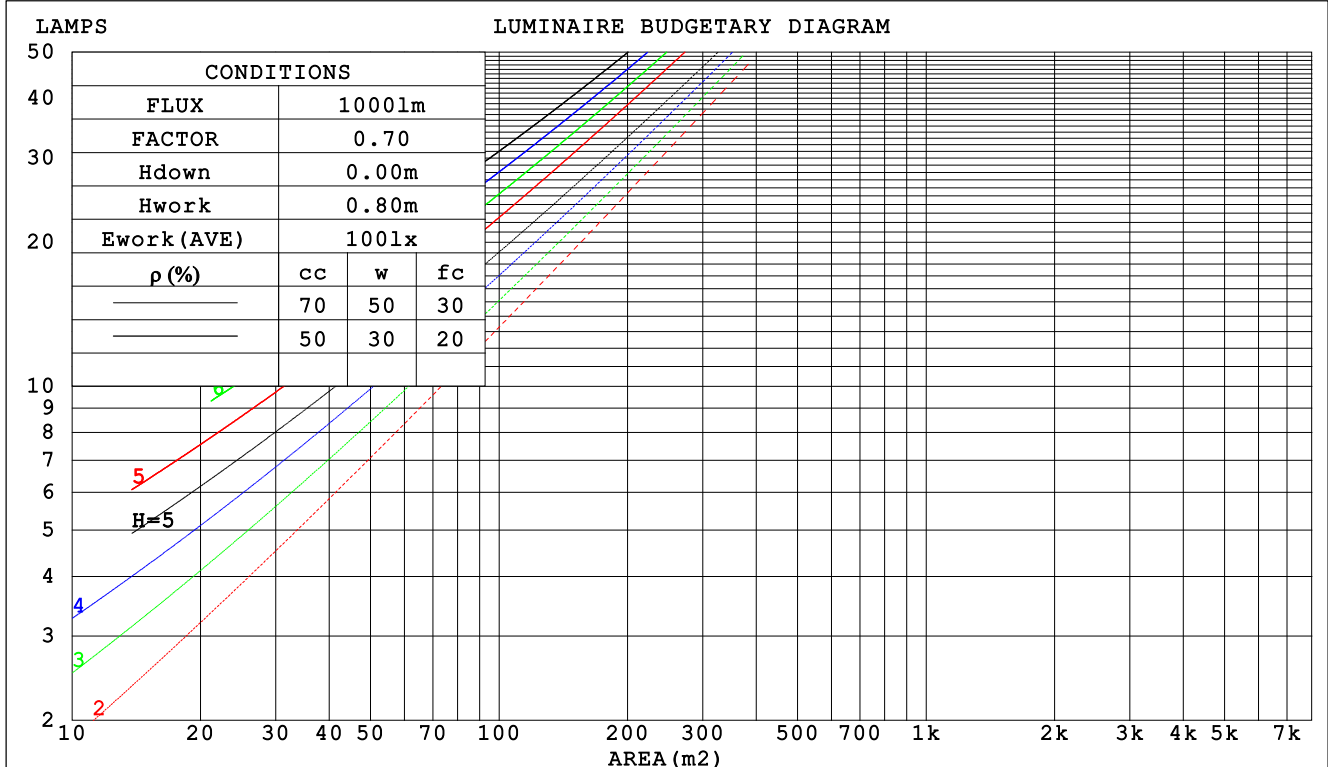
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.51V I:1.3826A P:297.24W PF:0.9839 Freq:58.98Hz Lamp Flux:45806.7x1 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	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	1.06	1.03	.00	1.04	1.01	.98	.99	.97	.94	.95	.93	.91	.91	.90	.88	.86
2.0	.95	.89	.85	.93	.88	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.85	.78	.73	.84	.77	.72	.80	.75	.71	.78	.73	.69	.75	.71	.68	.66
4.0	.77	.69	.63	.76	.68	.63	.73	.67	.62	.70	.65	.61	.68	.64	.60	.58
5.0	.70	.62	.56	.69	.61	.56	.66	.60	.55	.64	.58	.54	.62	.57	.53	.51
6.0	.64	.56	.50	.62	.55	.50	.61	.54	.49	.59	.53	.48	.57	.52	.48	.46
7.0	.58	.50	.45	.57	.50	.44	.56	.49	.44	.54	.48	.44	.53	.47	.43	.41
8.0	.53	.46	.40	.53	.45	.40	.51	.45	.40	.50	.44	.40	.49	.43	.39	.37
9.0	.49	.42	.37	.49	.42	.37	.47	.41	.36	.46	.40	.36	.45	.40	.36	.34
10.0	.46	.38	.34	.45	.38	.34	.44	.38	.33	.43	.37	.33	.42	.37	.33	.31



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.51V I:1.3826A P:297.24W PF:0.9839 Freq:58.98Hz Lamp Flux:45806.7x1 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	.251	.143	.045	.243	.139	.044	.229	.131	.042	.216	.125	.040	.204	.118	.038	
2.0	.242	.132	.041	.235	.129	.040	.223	.124	.038	.211	.118	.037	.200	.113	.036	
3.0	.228	.121	.036	.222	.119	.036	.211	.115	.035	.201	.110	.034	.192	.106	.033	
4.0	.214	.111	.033	.209	.110	.032	.200	.106	.032	.191	.102	.031	.182	.099	.030	
5.0	.201	.103	.030	.197	.101	.029	.188	.098	.029	.180	.095	.028	.172	.092	.028	
6.0	.189	.095	.027	.185	.093	.027	.177	.091	.026	.170	.088	.026	.163	.086	.026	
7.0	.178	.088	.025	.174	.087	.025	.167	.085	.024	.161	.082	.024	.155	.080	.024	
8.0	.168	.082	.023	.165	.081	.023	.158	.079	.023	.152	.077	.022	.147	.075	.022	
9.0	.159	.077	.021	.156	.076	.021	.150	.074	.021	.145	.073	.021	.140	.071	.020	
10.0	.150	.072	.020	.148	.071	.020	.142	.070	.020	.138	.068	.019	.133	.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	.208	.208	.208	.178	.178	.178	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.194	.174	.157	.166	.150	.135	.113	.103	.093	.065	.060	.054	.021	.019	.018	
2.0	.183	.150	.122	.157	.129	.105	.108	.089	.073	.062	.052	.043	.020	.017	.014	
3.0	.174	.132	.098	.149	.114	.085	.103	.079	.060	.059	.046	.035	.019	.015	.012	
4.0	.166	.118	.081	.143	.102	.071	.098	.071	.050	.057	.042	.029	.018	.014	.010	
5.0	.159	.107	.070	.136	.093	.060	.094	.065	.043	.054	.038	.025	.018	.012	.008	
6.0	.152	.099	.061	.131	.086	.053	.090	.060	.037	.052	.035	.022	.017	.012	.007	
7.0	.146	.092	.054	.125	.080	.047	.087	.056	.033	.050	.033	.020	.016	.011	.007	
8.0	.140	.086	.049	.120	.075	.043	.083	.052	.030	.048	.031	.018	.016	.010	.006	
9.0	.134	.081	.045	.116	.070	.039	.080	.049	.028	.047	.029	.017	.015	.010	.006	
10.0	.129	.077	.042	.111	.067	.037	.077	.047	.026	.045	.028	.016	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-12-17

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:218.51V I:1.3826A P:297.24W PF:0.9839 Freq:58.98Hz Lamp Flux:45806.7x1 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	14.5	15.8	14.8	16.1	16.3	14.3	15.6	14.6	15.8	16.0
3H	15.1	16.3	15.4	16.5	16.8	14.9	16.1	15.2	16.4	16.6
4H	15.3	16.4	15.6	16.7	17.0	15.1	16.2	15.5	16.5	16.8
6H	15.4	16.4	15.7	16.7	17.0	15.2	16.3	15.6	16.6	16.9
8H	15.3	16.4	15.7	16.7	17.0	15.2	16.2	15.6	16.5	16.8
12H	15.3	16.3	15.7	16.6	17.0	15.2	16.1	15.5	16.5	16.8
4H 2H	14.7	15.9	15.1	16.1	16.4	14.5	15.7	14.9	15.9	16.2
3H	15.5	16.4	15.8	16.8	17.1	15.3	16.3	15.7	16.6	17.0
4H	15.7	16.6	16.1	17.0	17.3	15.6	16.5	16.0	16.8	17.2
6H	15.9	16.7	16.3	17.0	17.5	15.8	16.5	16.2	16.9	17.3
8H	15.9	16.6	16.3	17.0	17.4	15.8	16.5	16.2	16.9	17.3
12H	15.9	16.5	16.3	17.0	17.4	15.7	16.4	16.2	16.8	17.3
8H 4H	15.8	16.5	16.2	16.9	17.3	15.7	16.4	16.1	16.8	17.2
6H	16.0	16.6	16.5	17.0	17.5	15.9	16.5	16.4	16.9	17.4
8H	16.0	16.6	16.5	17.0	17.5	15.9	16.4	16.4	16.9	17.4
12H	16.0	16.5	16.5	17.0	17.5	15.9	16.4	16.4	16.8	17.4
12H 4H	15.8	16.4	16.2	16.8	17.3	15.6	16.3	16.1	16.7	17.2
6H	16.0	16.5	16.5	17.0	17.5	15.9	16.4	16.4	16.8	17.3
8H	16.0	16.5	16.5	17.0	17.5	15.9	16.3	16.4	16.8	17.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.8					+ 0.6 / - 0.8				
1.5H	+ 0.6 / - 0.5					+ 0.4 / - 0.5				
2.0H	+ 1.4 / - 1.0					+ 1.2 / - 0.9				

CIE Pub.117, 45807 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 13.3)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.51V I:1.3826A P:297.24W PF:0.9839 Freq:58.98Hz Lamp Flux:45806.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

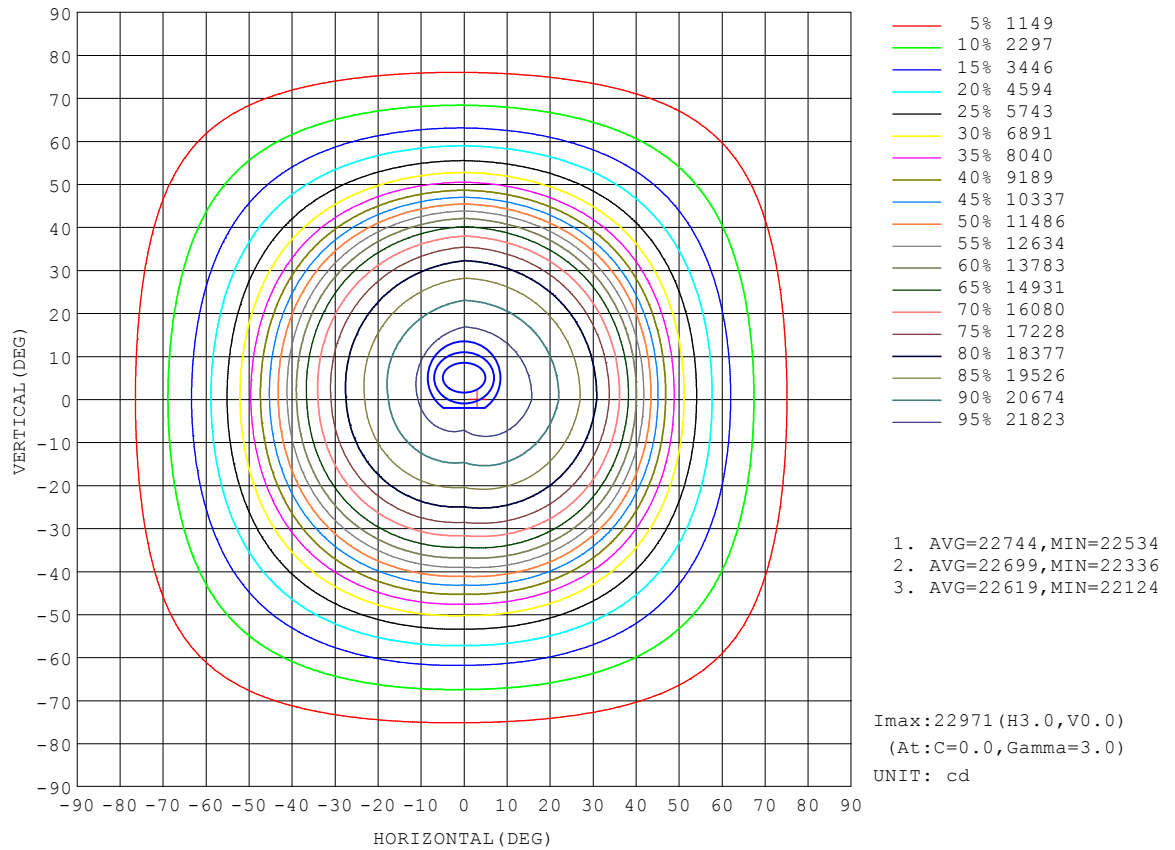
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	56	50	64	55	50	44
0.80	76	66	60	75	65	60	73	65	59	53
1.00	83	74	68	82	74	68	80	74	67	61
1.25	90	81	75	88	80	75	86	79	74	68
1.50	94	86	81	93	85	80	90	83	79	72
2.00	100	93	88	98	92	87	94	89	85	78
2.50	103	97	92	101	95	91	97	92	88	81
3.00	105	100	96	103	98	94	99	95	92	84
4.00	109	104	100	106	102	99	102	99	96	87
5.00	110	107	103	108	105	102	103	101	98	89
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: 2024-12-17

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:218.51V I:1.3826A P:297.24W PF:0.9839 Freq:58.98Hz Lamp Flux:45806.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

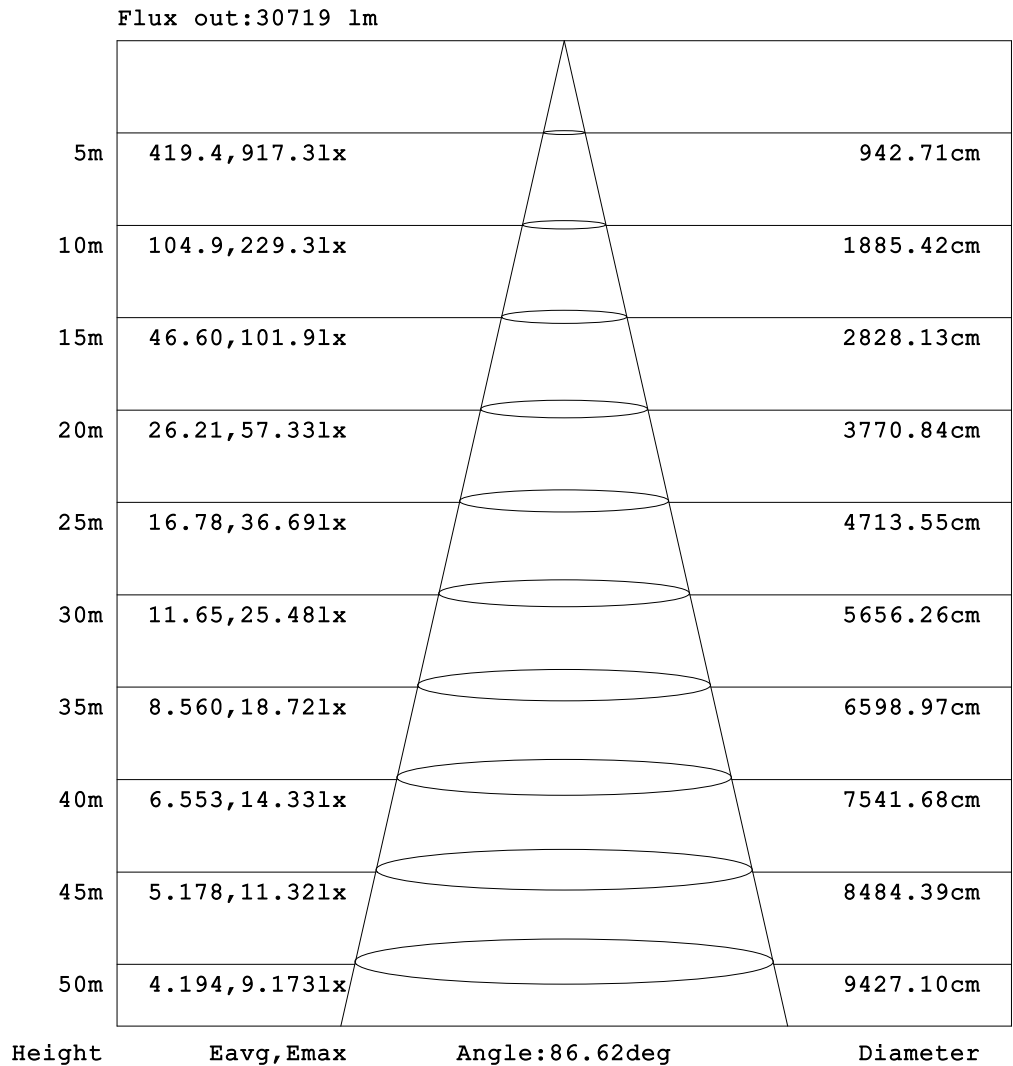


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.51V I:1.3826A P:297.24W PF:0.9839 Freq:58.98Hz Lamp Flux:45806.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



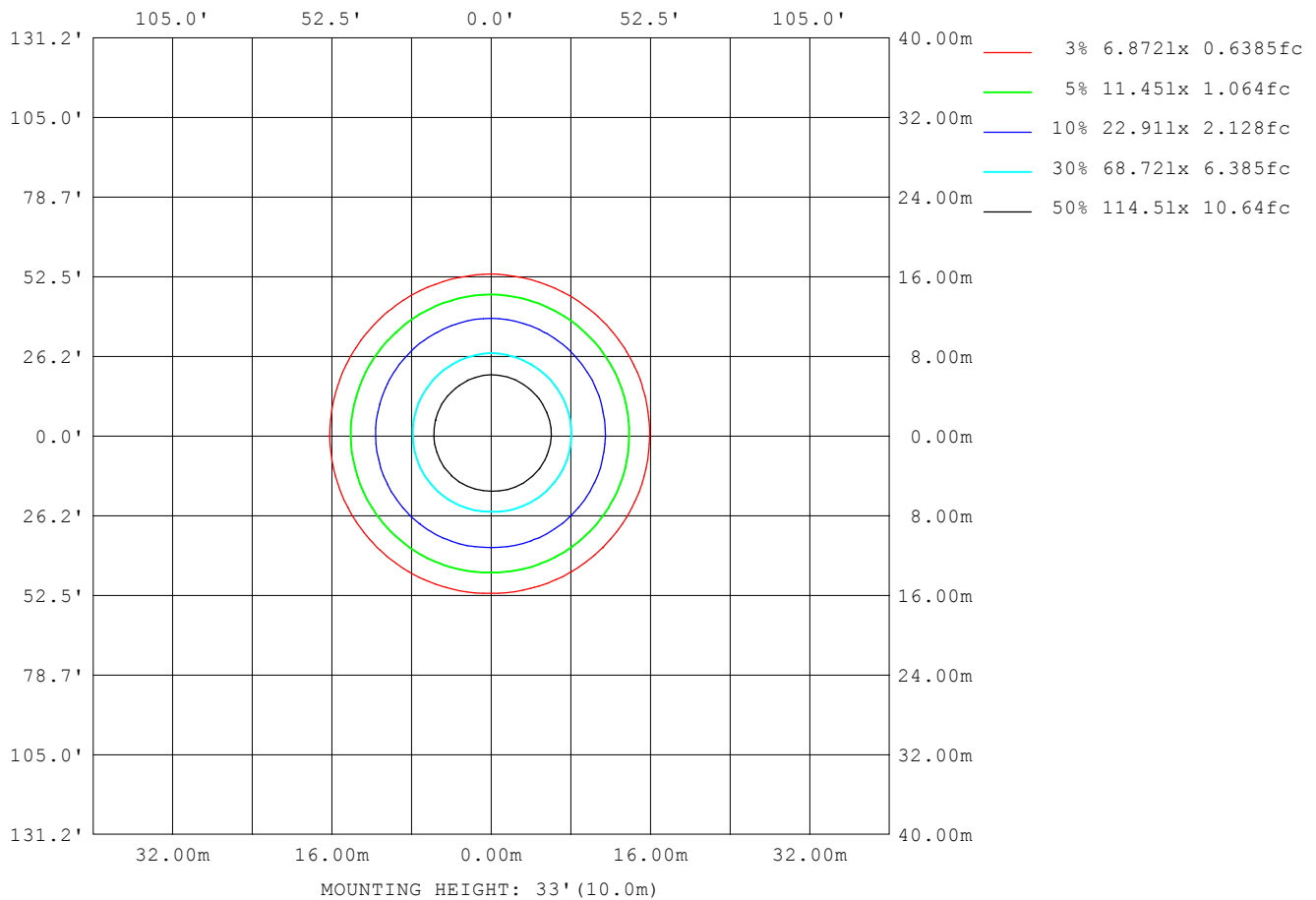
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-17

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:218.51V I:1.3826A P:297.24W PF:0.9839 Freq:58.98Hz Lamp Flux:45806.7x1 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:2024-12-17

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:218.51V I:1.3826A P:297.24W PF:0.9839 Freq:58.98Hz Lamp Flux:45806.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

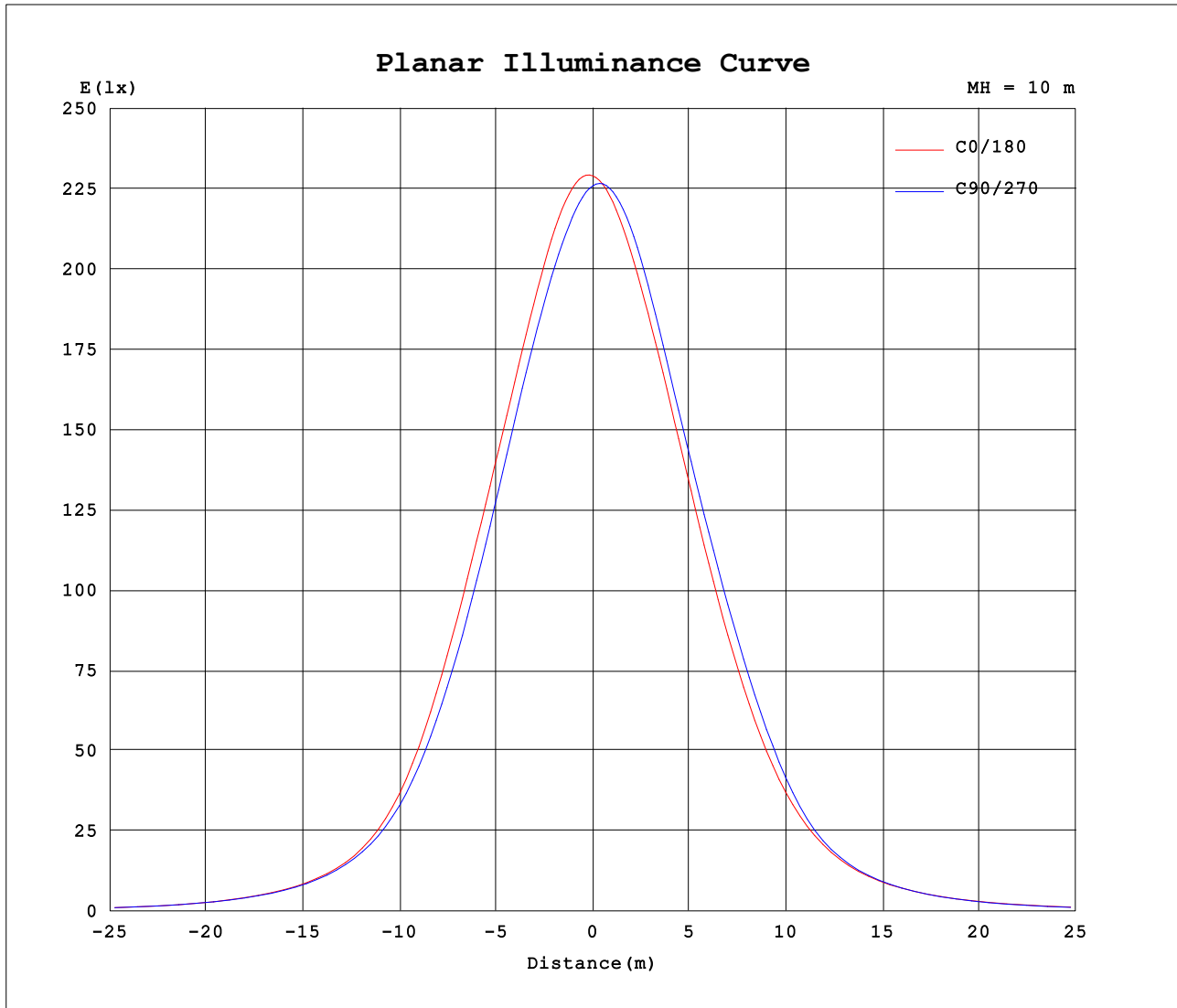
AvgL	cd/m2
L_0~180 (65) av	69136
L_0~180 (75) av	48345
L_0~180 (85) av	21023
L_90~270 (65) av	67948
L_90~270 (75) av	47268
L_90~270 (85) av	20259
L_45 (65) av	68630
L_45 (75) av	47897
L_45 (85) av	20562

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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: 2024-12-17

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:218.51V I:1.3826A P:297.24W PF:0.9839 Freq:58.98Hz Lamp Flux:45806.7x1 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	2291	2260	2291	2260															
5	2294	2211	2256	2278															
10	2260	2142	2193	2262															
15	2194	2062	2114	2211															
20	2107	1963	2021	2126															
25	2002	1837	1906	2025															
30	1864	1673	1756	1904															
35	1666	1466	1565	1738															
40	1383	1211	1324	1500															
45	1040	933	1048	1178															
50	743	699	784	830															
55	542	523	579	592															
60	395	387	429	427															
65	276	276	308	299															
70	186	188	209	200															
75	116	117	134	128															
80	55.7	54.1	70.4	67.9															
85	18.1	15.8	18.5	19.5															
90	14.5	14.1	8.72	8.44															
95	13.3	13.0	9.26	8.96															
100	12.7	12.5	10.1	9.74															
105	12.6	12.6	11.1	10.7															
110	13.1	13.3	12.3	11.9															
115	13.8	14.2	13.7	13.2															
120	14.9	15.4	15.2	14.6															
125	16.1	16.8	16.7	16.0															
130	17.5	18.3	18.4	17.6															
135	19.1	19.9	20.1	19.3															
140	20.7	21.5	21.7	20.8															
145	22.3	23.1	23.3	22.4															
150	23.9	24.7	24.8	23.9															
155	25.5	26.1	26.2	25.4															
160	26.9	27.5	27.6	26.7															
165	28.3	28.7	28.8	28.0															
170	29.4	29.7	29.9	29.2															
175	30.1	30.3	30.5	29.9															
180	30.5	30.4	30.7	30.3															

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C Interval: 90.0DEG
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γ Range: 0 - 180DEG
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