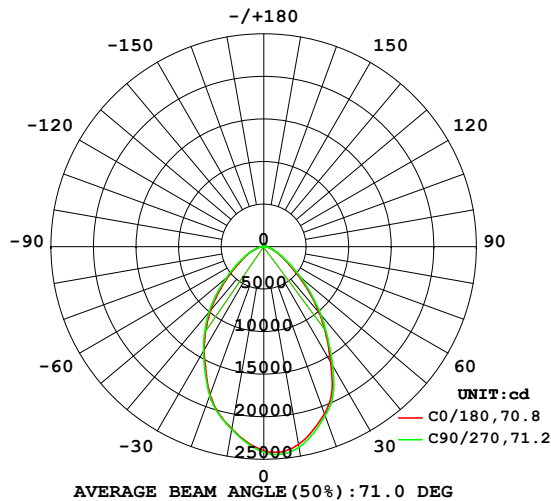


LUMINAIRE PHOTOMETRIC TEST REPORT

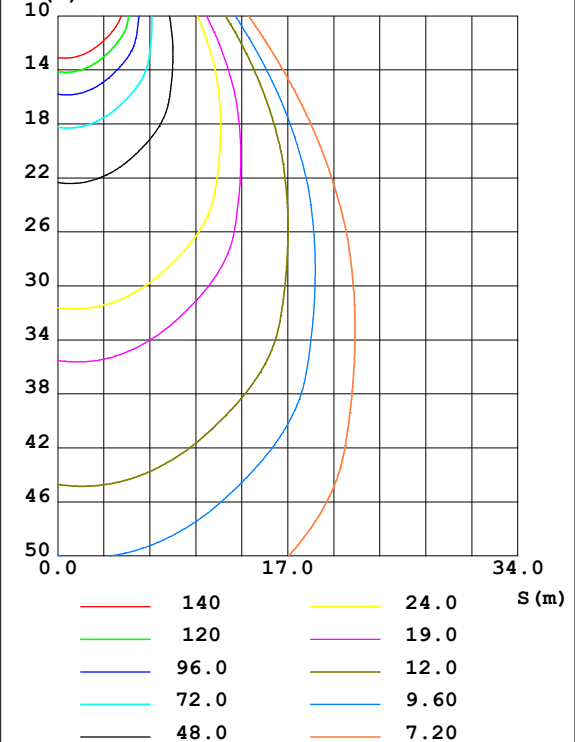
Test:U:218.68V I:0.9525A P:198.22W PF:0.9516 Freq:58.98Hz Lamp Flux:37601.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 189.70 lm/W			
MODEL		I _{max} (cd)	24481	S/MH (C0/180)	0.94
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH (C90/270)	0.94
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	37602	η UP,DN(C0-180)	1.2,50.3
NOMINAL FLUX(lm)	37601.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.2,47.3
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	97.7	CIBSE SHR MAX	1.10

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	2359	2393	2174	2180					0- 10	2233	2233	5.94, 5.94
20	2089	2115	1849	1864					10- 20	6017	8251	21.9, 21.9
30	1576	1622	1402	1421					20- 30	8064	16315	43.4, 43.4
40	1017	1045	969.2	999.5					30- 40	7798	24112	64.1, 64.1
50	526.4	571.6	543.1	580.1					40- 50	5927	30040	79.9, 79.9
60	257.0	280.0	277.3	298.7					50- 60	3566	33606	89.4, 89.4
70	119.9	126.7	130.7	134.8					60- 70	1953	35559	94.6, 94.6
80	45.79	48.54	55.52	53.19					70- 80	918.7	36478	97, 97
90	11.34	11.44	7.142	7.121					80- 90	243.7	36722	97.7, 97.7
100	9.947	10.00	8.220	8.214					90-100	99.14	36821	97.9, 97.9
110	10.15	10.20	9.918	9.963					100-110	100.2	36921	98.2, 98.2
120	11.67	11.72	12.37	12.38					110-120	108.8	37030	98.5, 98.5
130	14.18	14.20	15.45	15.32					120-130	119.6	37149	98.8, 98.8
140	17.44	17.34	18.74	18.38					130-140	126.4	37276	99.1, 99.1
150	21.01	20.71	21.99	21.28					140-150	122.8	37399	99.5, 99.5
160	24.43	23.85	24.97	23.89					150-160	105.1	37504	99.7, 99.7
170	27.13	26.18	27.30	25.95					160-170	72.00	37576	99.9, 99.9
180	28.21	27.13	28.36	27.02					170-180	25.90	37602	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 27387 lm

%lum = 72.8%

%lamp = 72.8%

Conical surface Flux(120deg): 33606 lm

%lum = 89.4%

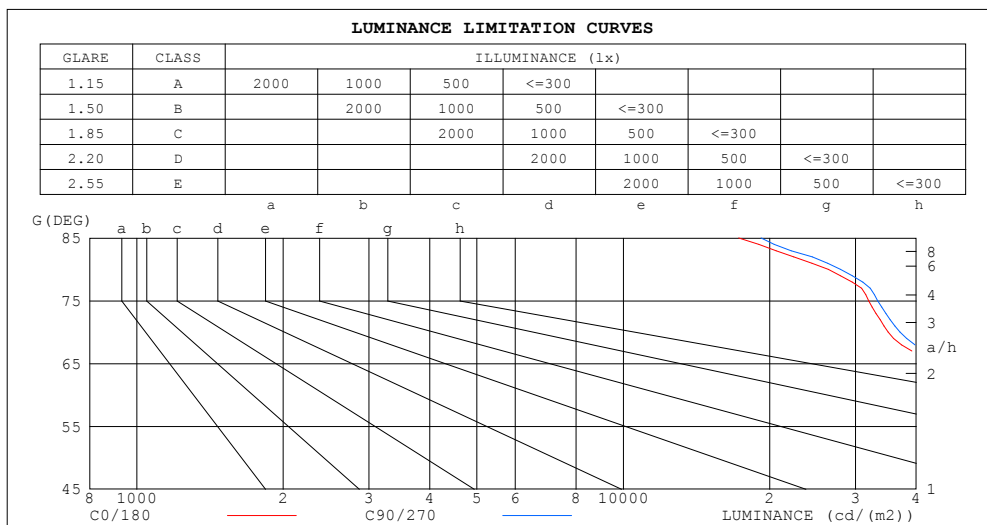
%lamp = 89.4%

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:218.68V I:0.9525A P:198.22W PF:0.9516 Freq:58.98Hz Lamp Flux:37601.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	17259	19191
80	26372	27956
75	31963	33347
70	35052	37034
65	42661	45325
60	51395	55992
55	62962	70038
50	81889	88929
45	106414	111683

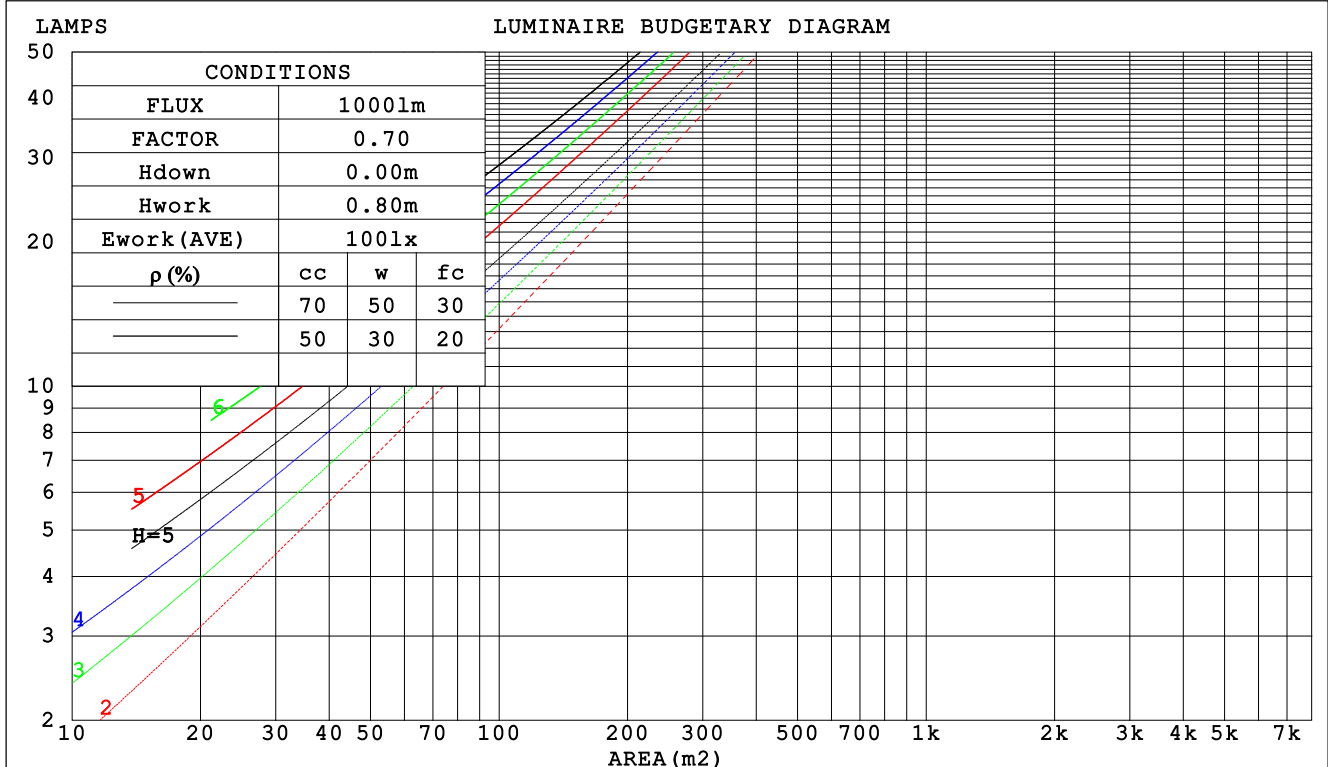
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.68V I:0.9525A P:198.22W PF:0.9516 Freq:58.98Hz Lamp Flux:37601.6x1 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	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.07	1.04	1.01	1.05	1.02	.99	.00	.98	.95	.96	.94	.92	.92	.90	.89	.87
2.0	.96	.91	.86	.94	.89	.85	.91	.86	.83	.87	.84	.81	.84	.81	.79	.77
3.0	.87	.80	.75	.85	.79	.74	.82	.77	.73	.79	.75	.71	.77	.73	.70	.68
4.0	.79	.72	.66	.78	.71	.66	.75	.69	.65	.73	.68	.64	.70	.66	.63	.61
5.0	.72	.65	.59	.71	.64	.59	.69	.63	.58	.67	.61	.57	.65	.60	.56	.54
6.0	.66	.58	.53	.65	.58	.53	.63	.57	.52	.61	.56	.52	.60	.55	.51	.49
7.0	.61	.53	.48	.60	.53	.48	.58	.52	.47	.57	.51	.47	.55	.50	.46	.45
8.0	.56	.49	.44	.56	.49	.44	.54	.48	.43	.53	.47	.43	.52	.46	.43	.41
9.0	.52	.45	.40	.52	.45	.40	.50	.44	.40	.49	.44	.39	.48	.43	.39	.38
10.0	.49	.42	.37	.48	.41	.37	.47	.41	.37	.46	.40	.36	.45	.40	.36	.35



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:218.68V I:0.9525A P:198.22W PF:0.9516 Freq:58.98Hz Lamp Flux:37601.6x1 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	.240	.136	.043	.232	.132	.042	.218	.125	.040	.205	.118	.038	.193	.112	.036		
2.0	.230	.126	.039	.223	.123	.038	.211	.117	.036	.200	.112	.035	.189	.107	.034		
3.0	.217	.116	.035	.211	.113	.034	.201	.109	.033	.190	.104	.032	.181	.100	.031		
4.0	.204	.106	.031	.199	.104	.031	.190	.101	.030	.181	.097	.029	.172	.094	.029		
5.0	.192	.098	.028	.187	.096	.028	.179	.093	.027	.171	.090	.027	.164	.087	.026		
6.0	.181	.091	.026	.177	.089	.026	.169	.087	.025	.162	.084	.025	.155	.082	.024		
7.0	.170	.084	.024	.167	.083	.024	.160	.081	.023	.154	.079	.023	.148	.077	.023		
8.0	.161	.079	.022	.158	.078	.022	.152	.076	.022	.146	.074	.021	.140	.072	.021		
9.0	.152	.074	.021	.150	.073	.020	.144	.071	.020	.139	.070	.020	.134	.068	.020		
10.0	.145	.069	.019	.142	.069	.019	.137	.067	.019	.132	.066	.019	.128	.064	.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	.178	.178	.178	.122	.122	.122	.070	.070	.070	.022	.022	.022		
1.0	.193	.175	.158	.166	.150	.136	.113	.103	.094	.065	.060	.055	.021	.019	.018		
2.0	.182	.150	.124	.156	.129	.107	.107	.090	.075	.062	.052	.044	.020	.017	.014		
3.0	.173	.132	.100	.148	.114	.087	.102	.079	.061	.059	.046	.036	.019	.015	.012		
4.0	.164	.118	.083	.141	.102	.072	.097	.071	.051	.056	.042	.030	.018	.014	.010		
5.0	.156	.107	.071	.134	.093	.062	.093	.065	.044	.054	.038	.026	.017	.012	.009		
6.0	.149	.099	.062	.128	.085	.054	.089	.060	.038	.051	.035	.023	.017	.012	.008		
7.0	.143	.092	.056	.123	.079	.048	.085	.056	.034	.049	.033	.020	.016	.011	.007		
8.0	.137	.086	.050	.118	.074	.044	.082	.052	.031	.048	.031	.019	.015	.010	.006		
9.0	.132	.081	.046	.114	.070	.040	.079	.049	.029	.046	.029	.017	.015	.010	.006		
10.0	.127	.076	.043	.109	.066	.038	.076	.047	.027	.044	.028	.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:218.68V I:0.9525A P:198.22W PF:0.9516 Freq:58.98Hz Lamp Flux:37601.6x1 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	13.6	14.9	13.9	15.1	15.3	13.9	15.1	14.2	15.4	15.6
3H	14.1	15.2	14.4	15.5	15.7	14.4	15.5	14.7	15.7	16.0
4H	14.3	15.3	14.6	15.6	15.9	14.5	15.6	14.9	15.9	16.2
6H	14.4	15.4	14.7	15.7	16.0	14.7	15.7	15.0	16.0	16.3
8H	14.4	15.4	14.8	15.7	16.0	14.7	15.6	15.0	15.9	16.3
12H	14.4	15.3	14.8	15.6	16.0	14.7	15.6	15.0	15.9	16.2
4H 2H	13.8	14.9	14.1	15.2	15.4	14.0	15.1	14.4	15.4	15.7
3H	14.4	15.3	14.8	15.7	16.0	14.6	15.6	15.0	15.9	16.2
4H	14.7	15.5	15.1	15.9	16.2	14.9	15.8	15.3	16.1	16.5
6H	14.9	15.6	15.3	16.0	16.4	15.1	15.9	15.6	16.3	16.7
8H	14.9	15.6	15.4	16.0	16.5	15.2	15.9	15.6	16.3	16.7
12H	14.9	15.6	15.4	16.0	16.4	15.2	15.8	15.6	16.2	16.7
8H 4H	14.8	15.4	15.2	15.8	16.3	15.0	15.7	15.4	16.1	16.5
6H	15.1	15.6	15.5	16.1	16.5	15.3	15.8	15.7	16.3	16.7
8H	15.1	15.6	15.6	16.1	16.6	15.4	15.9	15.8	16.3	16.8
12H	15.2	15.6	15.7	16.1	16.6	15.4	15.8	15.9	16.3	16.8
12H 4H	14.7	15.4	15.2	15.8	16.2	14.9	15.6	15.4	16.0	16.4
6H	15.1	15.5	15.5	16.0	16.5	15.3	15.8	15.8	16.2	16.7
8H	15.1	15.6	15.7	16.1	16.6	15.4	15.8	15.9	16.3	16.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 1.0					+ 0.7 / - 0.9				
1.5H	+ 0.7 / - 0.6					+ 0.6 / - 0.6				
2.0H	+ 1.6 / - 1.1					+ 1.6 / - 1.2				

CIE Pub.117, 37602 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 12.6)
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:218.68V I:0.9525A P:198.22W PF:0.9516 Freq:58.98Hz Lamp Flux:37601.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

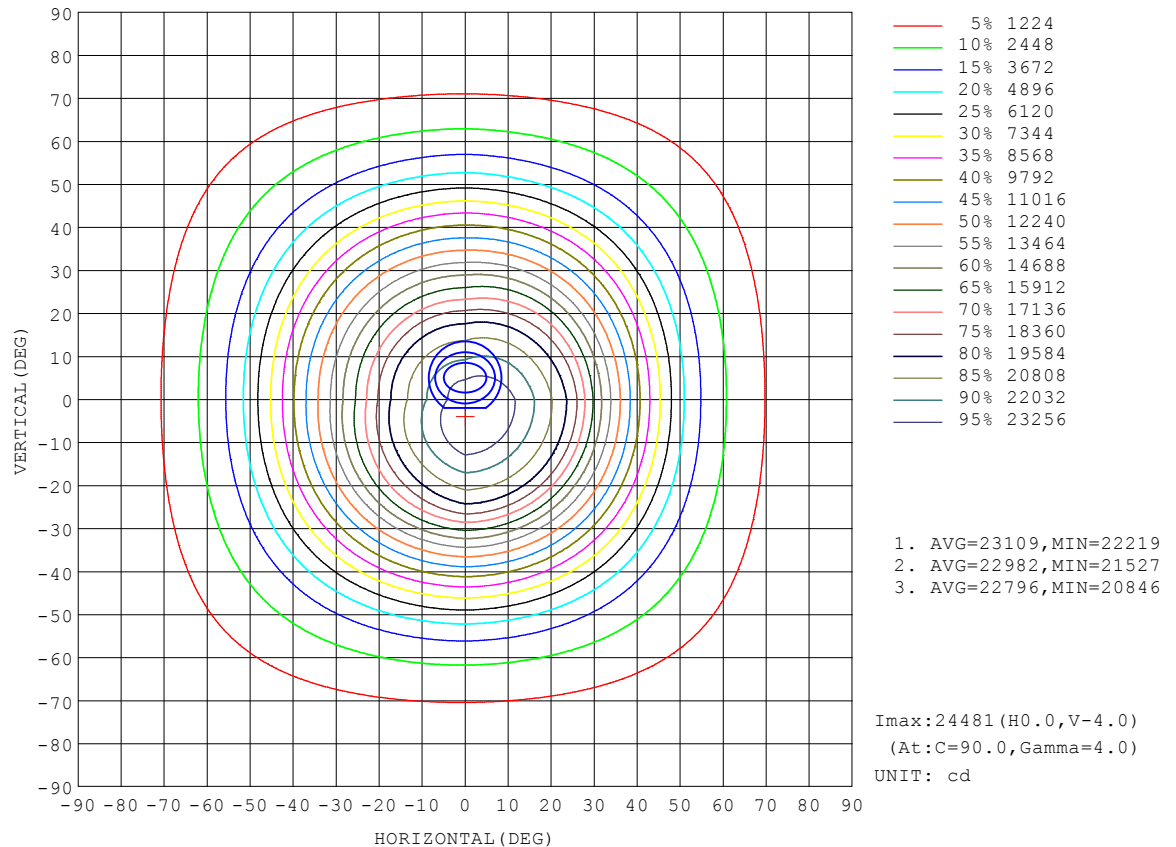
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	60	54	68	59	54	67	59	54	48
0.80	78	69	63	78	69	63	76	68	63	57
1.00	86	77	71	85	76	71	82	77	70	65
1.25	92	84	78	90	83	78	88	81	77	71
1.50	96	88	83	94	87	82	91	86	81	75
2.00	101	94	90	99	93	89	96	91	87	80
2.50	104	98	93	102	96	92	98	94	90	82
3.00	106	101	97	104	99	96	100	96	93	85
4.00	109	105	101	107	103	100	103	99	97	88
5.00	111	107	104	109	105	103	104	101	99	90
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:218.68V I:0.9525A P:198.22W PF:0.9516 Freq:58.98Hz Lamp Flux:37601.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

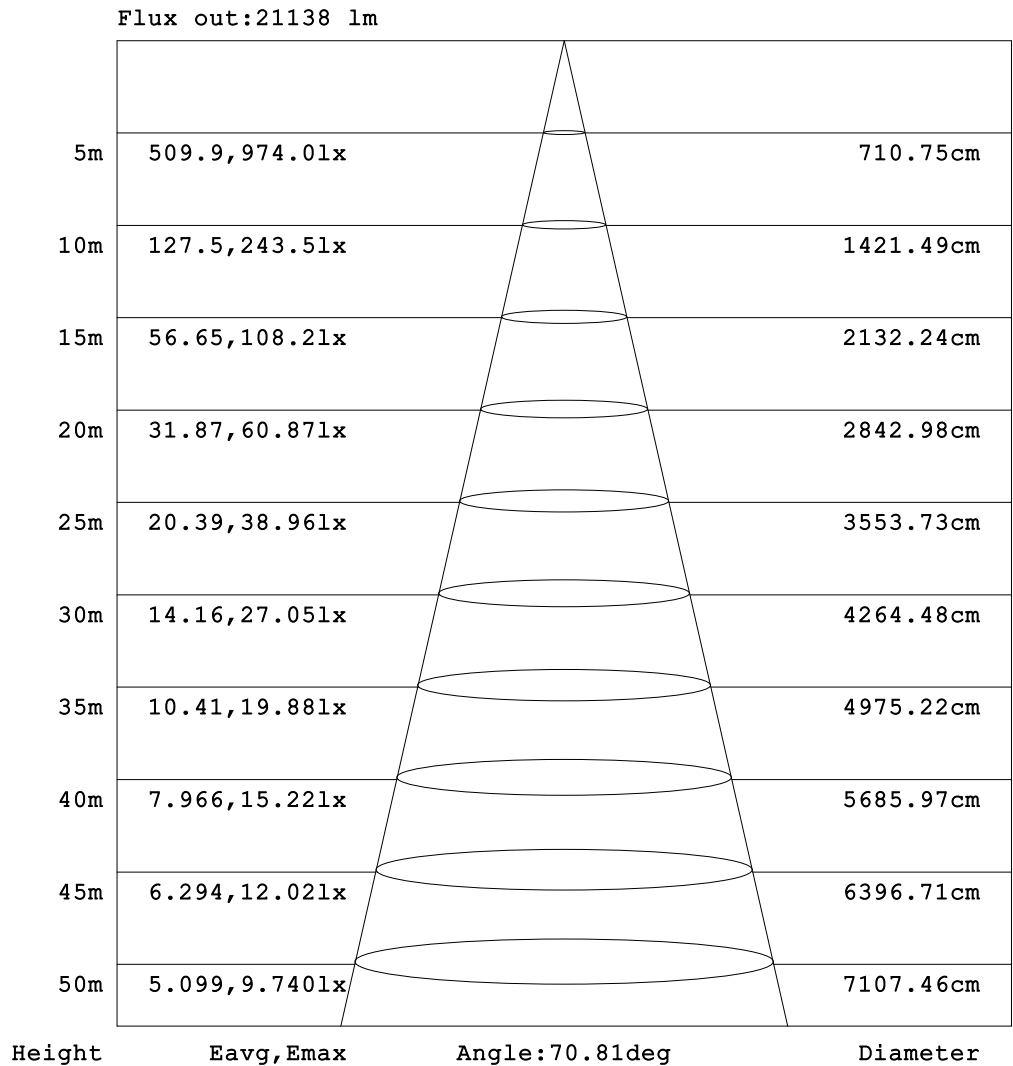


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.68V I:0.9525A P:198.22W PF:0.9516 Freq:58.98Hz Lamp Flux:37601.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



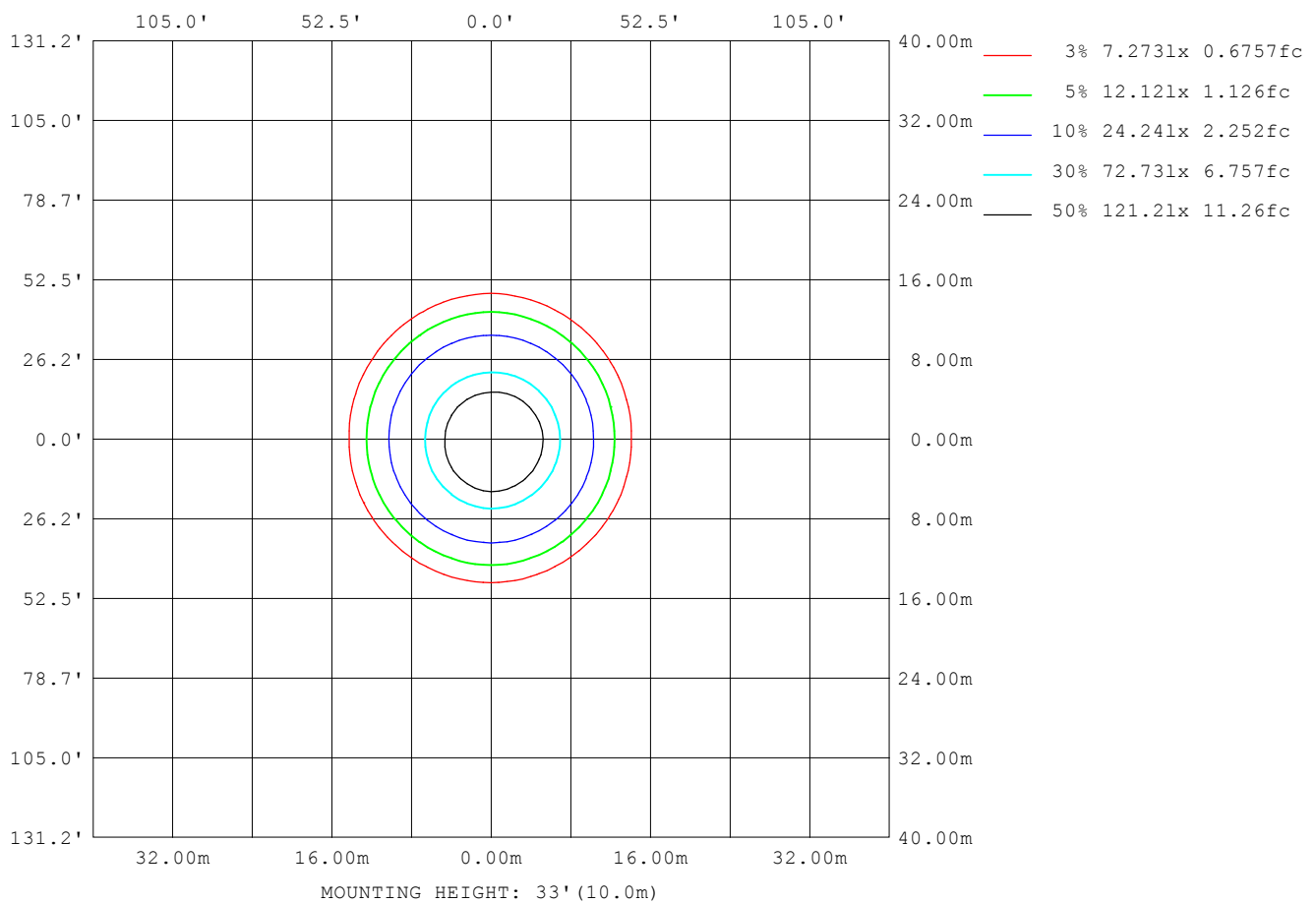
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:218.68V I:0.9525A P:198.22W PF:0.9516 Freq:58.98Hz Lamp Flux:37601.6x1 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:218.68V I:0.9525A P:198.22W PF:0.9516 Freq:58.98Hz Lamp Flux:37601.6x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

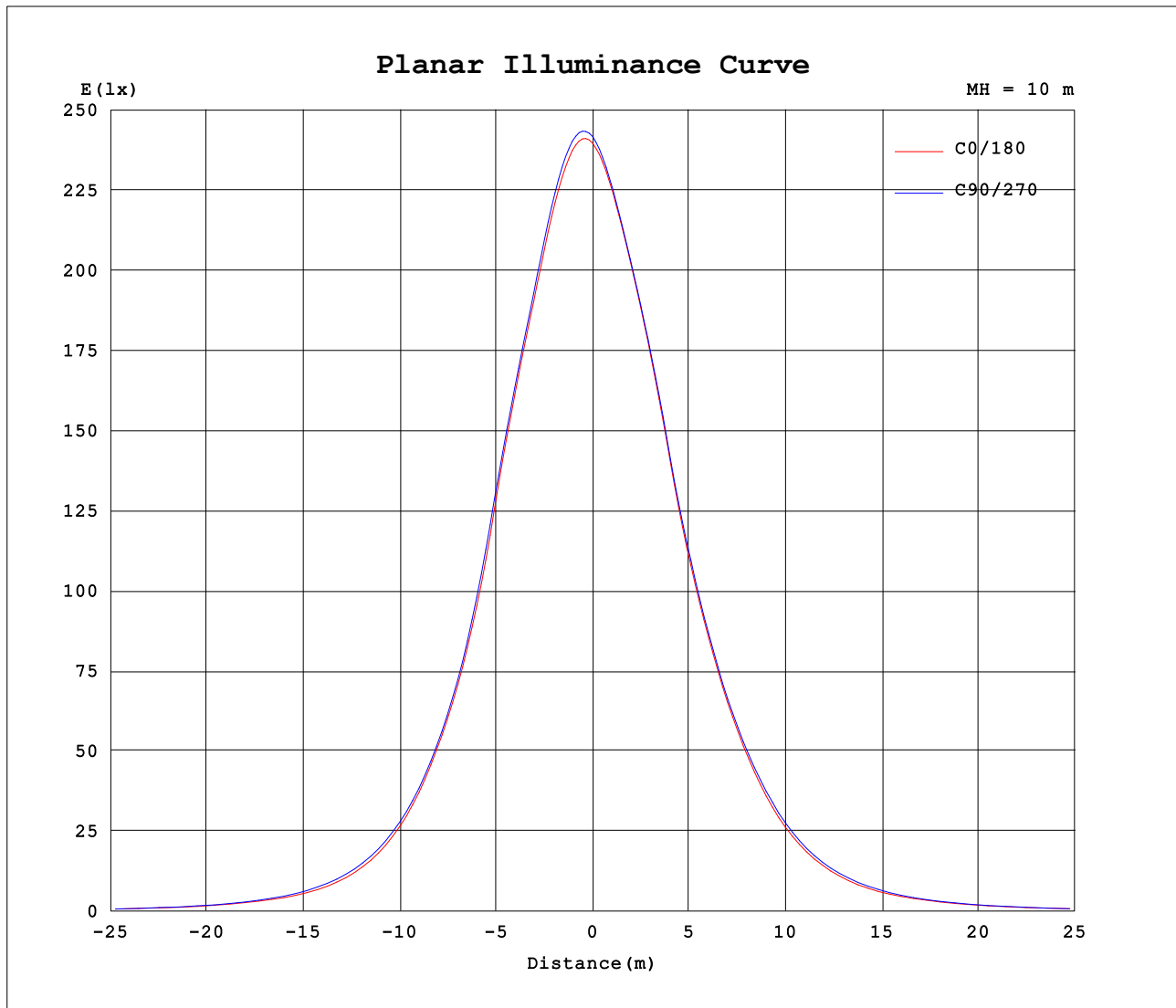
AvgL	cd/m2
L_0~180 (65) av	44971
L_0~180 (75) av	32798
L_0~180 (85) av	20533
L_90~270 (65) av	47457
L_90~270 (75) av	33667
L_90~270 (85) av	20660
L_45 (65) av	46669
L_45 (75) av	33393
L_45 (85) av	20817

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:218.68V I:0.9525A P:198.22W PF:0.9516 Freq:58.98Hz Lamp Flux:37601.6x1 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	2397	2417	2397	2417															
5	2420	2447	2303	2315															
10	2359	2393	2174	2180															
15	2235	2268	2034	2042															
20	2089	2115	1849	1864															
25	1894	1925	1611	1632															
30	1576	1622	1402	1421															
35	1284	1314	1188	1208															
40	1017	1045	969	999															
45	752	790	743	782															
50	526	572	543	580															
55	361	402	383	420															
60	257	280	277	299															
65	180	192	200	210															
70	120	127	131	135															
75	82.7	86.3	87.0	88.0															
80	45.8	48.5	55.5	53.2															
85	15.0	16.7	20.7	19.3															
90	11.3	11.4	7.14	7.12															
95	10.5	10.5	7.60	7.59															
100	9.95	10.0	8.22	8.21															
105	9.86	9.91	8.95	8.98															
110	10.1	10.2	9.92	9.96															
115	10.8	10.8	11.1	11.1															
120	11.7	11.7	12.4	12.4															
125	12.8	12.9	13.8	13.8															
130	14.2	14.2	15.5	15.3															
135	15.7	15.7	17.1	16.9															
140	17.4	17.3	18.7	18.4															
145	19.2	19.0	20.4	19.9															
150	21.0	20.7	22.0	21.3															
155	22.8	22.4	23.6	22.6															
160	24.4	23.8	25.0	23.9															
165	25.9	25.1	26.2	25.0															
170	27.1	26.2	27.3	25.9															
175	27.9	26.9	28.0	26.7															
180	28.2	27.1	28.4	27.0															

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C Interval: 90.0DEG
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γ Interval: 1.0DEG
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