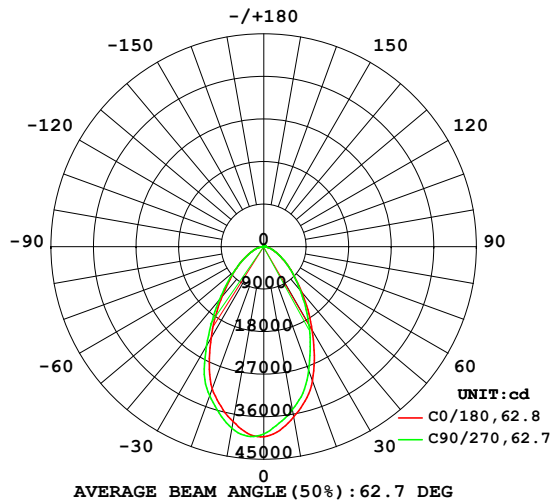


LUMINAIRE PHOTOMETRIC TEST REPORT

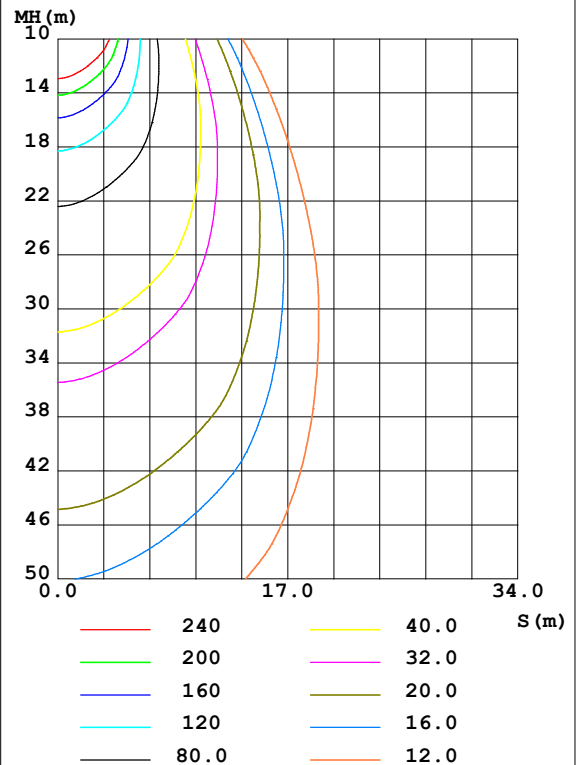
Test:U:218.62V I:1.3879A P:298.50W PF:0.9838 Freq:58.98Hz Lamp Flux:55217.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 184.98 lm/W			
MODEL		I _{max} (cd)	40243	S/MH (C0/180)	0.95
NOMINAL POWER(W)	300	LOR(%)	100.0	S/MH (C90/270)	1.01
RATED VOLTAGE(V)	220	TOTAL FLUX (lm)	55218	η UP,DN (C0-180)	1.2,45.7
NOMINAL FLUX(lm)	55217.7	CIE CLASS	DIRECT	η UP,DN (C180-360)	1.1,52.0
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	3660	3499	3754	3900					0- 10	3666	3666	6.64, 6.64
20	3022	2790	3198	3354					10- 20	9609	13274	24, 24
30	2049	1915	2232	2424					20- 30	12071	25345	45.9, 45.9
40	1248	1202	1372	1460					30- 40	10698	36043	65.3, 65.3
50	723.0	720.5	808.8	827.0					40- 50	7841	43885	79.5, 79.5
60	393.1	399.7	450.1	444.3					50- 60	5193	49078	88.9, 88.9
70	202.3	208.2	232.8	226.5					60- 70	3065	52143	94.4, 94.4
80	59.11	58.36	78.28	77.97					70- 80	1474	53617	97.1, 97.1
90	16.29	16.12	10.65	10.50					80- 90	336.6	53954	97.7, 97.7
100	14.26	14.19	11.80	11.70					90-100	142.6	54096	98, 98
110	14.52	14.61	14.05	13.87					100-110	142.6	54239	98.2, 98.2
120	16.86	17.25	17.22	16.87					110-120	154.1	54393	98.5, 98.5
130	20.92	21.69	21.17	20.67					120-130	170.0	54563	98.8, 98.8
140	25.92	26.98	25.76	25.19					130-140	181.5	54744	99.1, 99.1
150	31.17	32.34	30.32	29.86					140-150	178.2	54923	99.5, 99.5
160	35.75	36.88	34.45	34.23					150-160	153.0	55076	99.7, 99.7
170	38.97	39.81	37.77	37.89					160-170	104.7	55180	99.9, 99.9
180	39.68	40.30	39.89	40.14					170-180	37.49	55218	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 40320 lm

%lum = 73.0%

%lamp = 73.0%

Conical surface Flux(120deg): 49078 lm

%lum = 88.9%

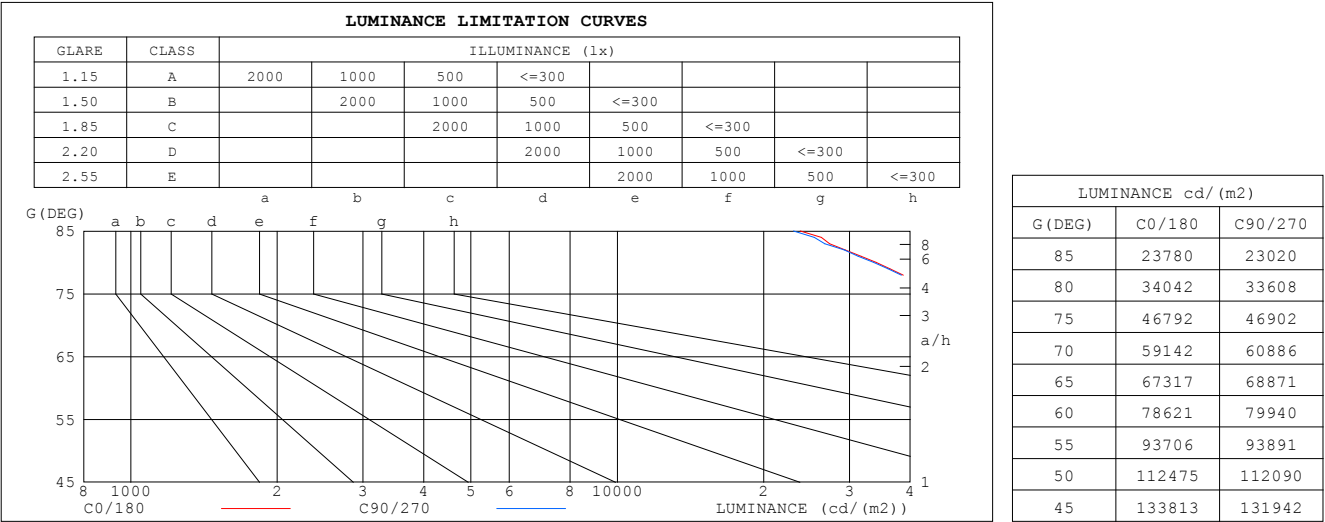
%lamp = 88.9%

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:1.3879A P:298.50W PF:0.9838 Freq:58.98Hz Lamp Flux:55217.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



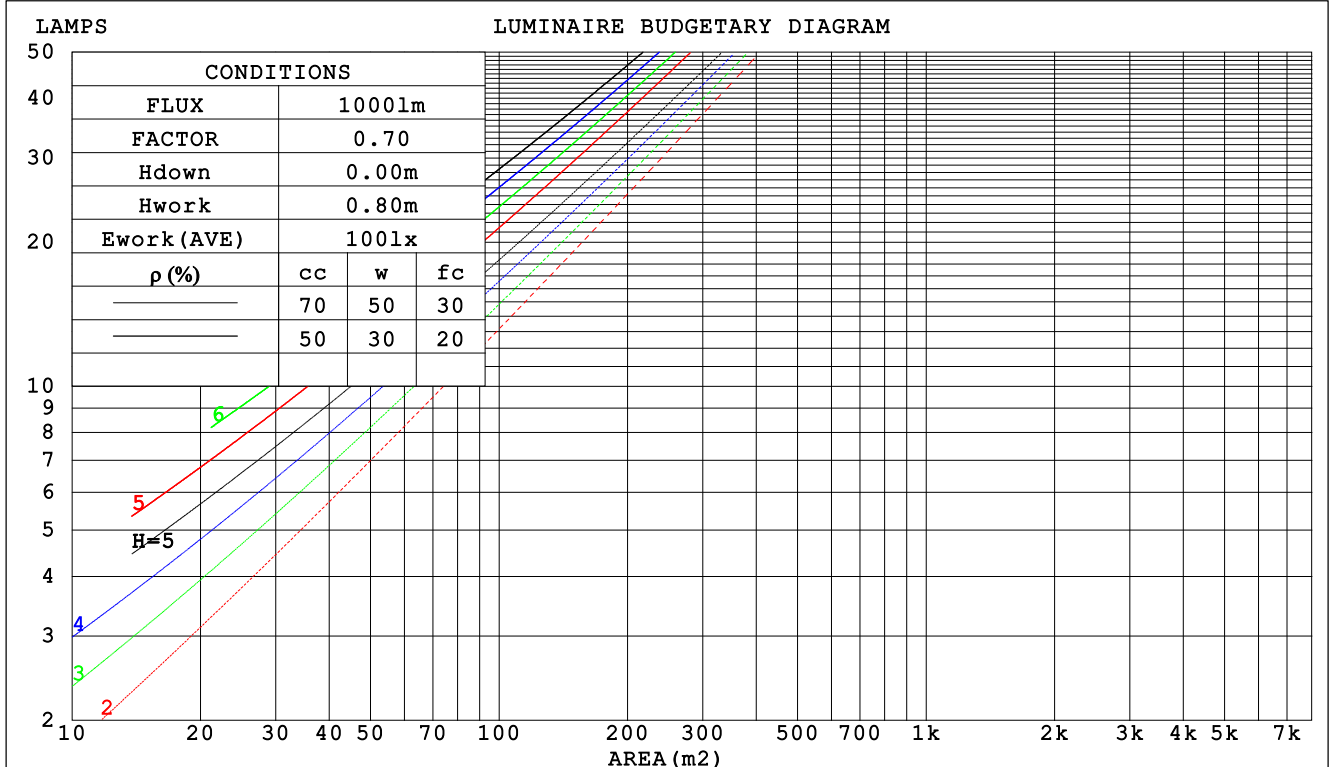
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:1.3879A P:298.50W PF:0.9838 Freq:58.98Hz Lamp Flux:55217.7x1 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)															
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	1.07	1.04	1.01	1.05	1.02	.99	1.00	.98	.95	.96	.94	.92	.92	.90	.89	.87
2.0	.96	.91	.87	.94	.90	.85	.91	.87	.83	.87	.84	.81	.84	.81	.79	.77
3.0	.87	.81	.76	.86	.80	.75	.83	.77	.73	.80	.75	.72	.77	.73	.70	.68
4.0	.79	.72	.67	.78	.71	.66	.75	.70	.65	.73	.68	.64	.71	.67	.63	.61
5.0	.73	.65	.60	.72	.65	.59	.69	.63	.59	.67	.62	.58	.65	.61	.57	.55
6.0	.67	.59	.54	.66	.59	.54	.64	.58	.53	.62	.57	.52	.61	.56	.52	.50
7.0	.62	.54	.49	.61	.54	.49	.59	.53	.48	.58	.52	.48	.56	.51	.47	.46
8.0	.57	.50	.45	.56	.50	.45	.55	.49	.44	.54	.48	.44	.53	.47	.44	.42
9.0	.53	.46	.41	.53	.46	.41	.51	.45	.41	.50	.45	.41	.49	.44	.40	.39
10.0	.50	.43	.38	.49	.43	.38	.48	.42	.38	.47	.42	.38	.46	.41	.37	.36



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
 γ 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:1.3879A P:298.50W PF:0.9838 Freq:58.98Hz Lamp Flux:55217.7x1 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	.239	.136	.043	.231	.132	.042	.217	.124	.040	.204	.117	.038	.192	.111	.036		
2.0	.228	.125	.038	.222	.122	.038	.210	.117	.036	.198	.111	.035	.188	.106	.033		
3.0	.215	.115	.034	.210	.112	.034	.199	.108	.033	.189	.103	.032	.179	.099	.031		
4.0	.202	.105	.031	.197	.103	.030	.188	.099	.030	.179	.096	.029	.170	.093	.028		
5.0	.190	.097	.028	.185	.095	.028	.177	.092	.027	.169	.089	.027	.162	.086	.026		
6.0	.178	.089	.026	.174	.088	.025	.167	.086	.025	.160	.083	.024	.153	.081	.024		
7.0	.168	.083	.024	.165	.082	.023	.158	.080	.023	.151	.078	.023	.145	.076	.022		
8.0	.159	.078	.022	.156	.077	.022	.149	.075	.021	.144	.073	.021	.138	.071	.021		
9.0	.150	.073	.020	.147	.072	.020	.142	.070	.020	.137	.069	.020	.132	.067	.019		
10.0	.143	.068	.019	.140	.068	.019	.135	.066	.019	.130	.065	.018	.126	.063	.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	.121	.121	.121	.070	.070	.070	.022	.022	.022		
1.0	.193	.174	.158	.165	.150	.136	.113	.103	.094	.065	.060	.055	.021	.019	.018		
2.0	.181	.150	.123	.155	.129	.107	.107	.089	.074	.061	.052	.044	.020	.017	.014		
3.0	.172	.132	.100	.147	.114	.087	.101	.079	.061	.058	.046	.036	.019	.015	.012		
4.0	.163	.118	.083	.140	.102	.072	.096	.071	.051	.056	.042	.030	.018	.014	.010		
5.0	.155	.107	.071	.133	.093	.062	.092	.065	.044	.053	.038	.026	.017	.012	.009		
6.0	.148	.098	.062	.128	.085	.054	.088	.060	.038	.051	.035	.023	.016	.011	.008		
7.0	.142	.091	.055	.122	.079	.048	.084	.055	.034	.049	.033	.020	.016	.011	.007		
8.0	.136	.085	.050	.117	.074	.044	.081	.052	.031	.047	.031	.019	.015	.010	.006		
9.0	.130	.080	.046	.112	.070	.040	.078	.049	.029	.045	.029	.017	.015	.009	.006		
10.0	.125	.076	.043	.108	.066	.037	.075	.046	.027	.044	.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:1.3879A P:298.50W PF:0.9838 Freq:58.98Hz Lamp Flux:55217.7x1 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	13.1	14.3	13.4	14.6	14.8	13.1	14.3	13.4	14.5	14.8
3H	13.8	14.9	14.1	15.2	15.5	13.8	14.9	14.1	15.2	15.5
4H	14.1	15.1	14.4	15.4	15.7	14.1	15.1	14.4	15.4	15.7
6H	14.1	15.1	14.5	15.4	15.7	14.2	15.1	14.5	15.4	15.8
8H	14.1	15.1	14.5	15.4	15.7	14.2	15.1	14.5	15.4	15.7
12H	14.1	15.0	14.5	15.4	15.7	14.1	15.0	14.5	15.4	15.7
4H 2H	13.4	14.4	13.7	14.7	15.0	13.4	14.4	13.7	14.7	15.0
3H	14.3	15.2	14.6	15.5	15.8	14.3	15.2	14.7	15.5	15.9
4H	14.6	15.4	15.0	15.8	16.1	14.6	15.4	15.0	15.8	16.2
6H	14.7	15.5	15.2	15.9	16.3	14.8	15.5	15.2	15.9	16.3
8H	14.8	15.4	15.2	15.8	16.3	14.8	15.5	15.2	15.9	16.3
12H	14.8	15.4	15.2	15.8	16.2	14.8	15.4	15.2	15.8	16.3
8H 4H	14.6	15.3	15.1	15.7	16.2	14.7	15.3	15.1	15.7	16.2
6H	14.9	15.4	15.3	15.9	16.3	14.9	15.4	15.4	15.9	16.3
8H	14.9	15.4	15.4	15.9	16.4	14.9	15.4	15.4	15.9	16.4
12H	14.9	15.4	15.5	15.9	16.4	15.0	15.4	15.5	15.9	16.4
12H 4H	14.6	15.2	15.1	15.7	16.1	14.6	15.3	15.1	15.7	16.1
6H	14.9	15.3	15.3	15.8	16.3	14.9	15.4	15.4	15.8	16.3
8H	14.9	15.3	15.4	15.8	16.4	14.9	15.4	15.4	15.8	16.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.7					+ 0.5 / - 0.7				
1.5H	+ 0.4 / - 0.3					+ 0.3 / - 0.3				
2.0H	+ 1.1 / - 0.9					+ 1.0 / - 0.9				

CIE Pub.117, 55218 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 13.9)
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:1.3879A P:298.50W PF:0.9838 Freq:58.98Hz Lamp Flux:55217.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

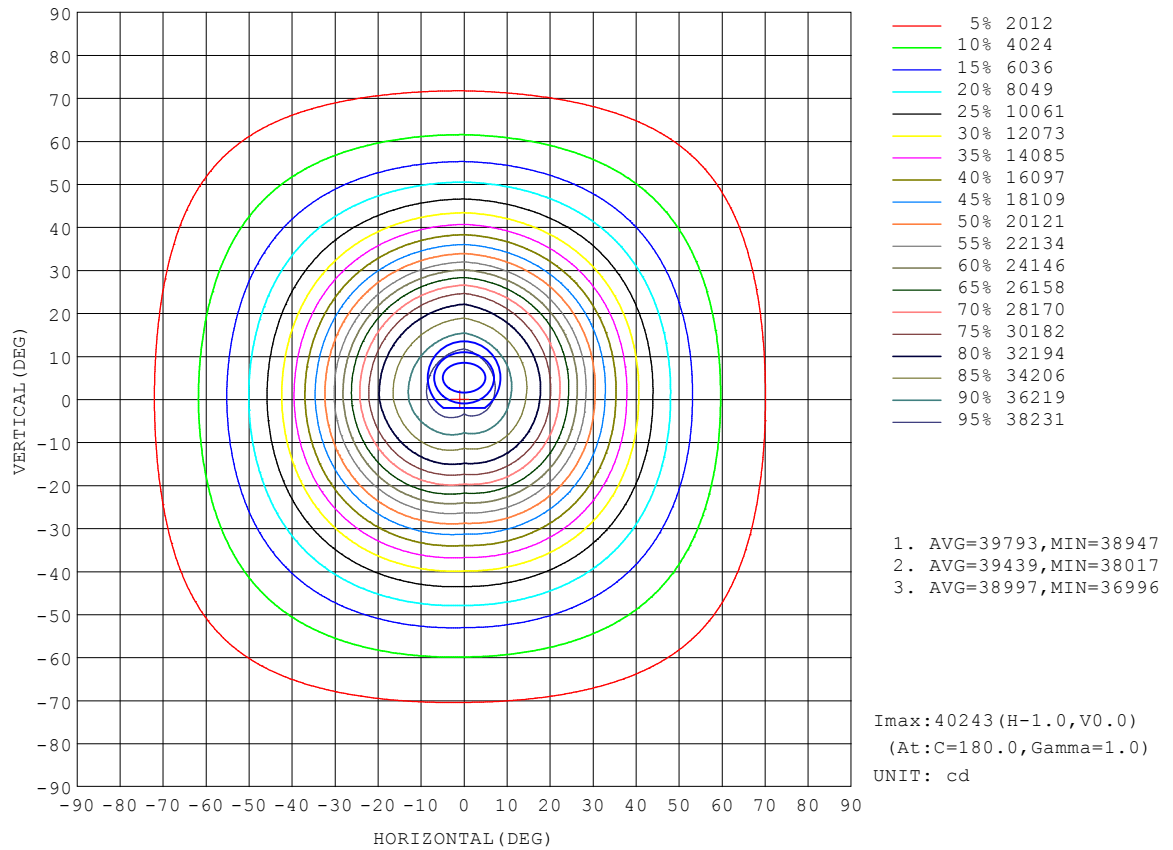
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	70	61	55	69	60	55	68	60	55	49
0.80	79	70	64	78	70	64	76	69	64	58
1.00	86	78	72	85	77	72	83	77	71	65
1.25	92	84	79	91	83	78	88	82	77	71
1.50	96	89	83	94	88	83	92	86	81	75
2.00	101	95	90	99	93	89	96	91	87	80
2.50	104	98	93	102	97	92	98	94	90	83
3.00	106	101	97	104	100	96	100	96	93	85
4.00	109	105	102	107	103	100	103	100	97	88
5.00	111	108	105	109	105	103	104	102	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:218.62V I:1.3879A P:298.50W PF:0.9838 Freq:58.98Hz Lamp Flux:55217.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

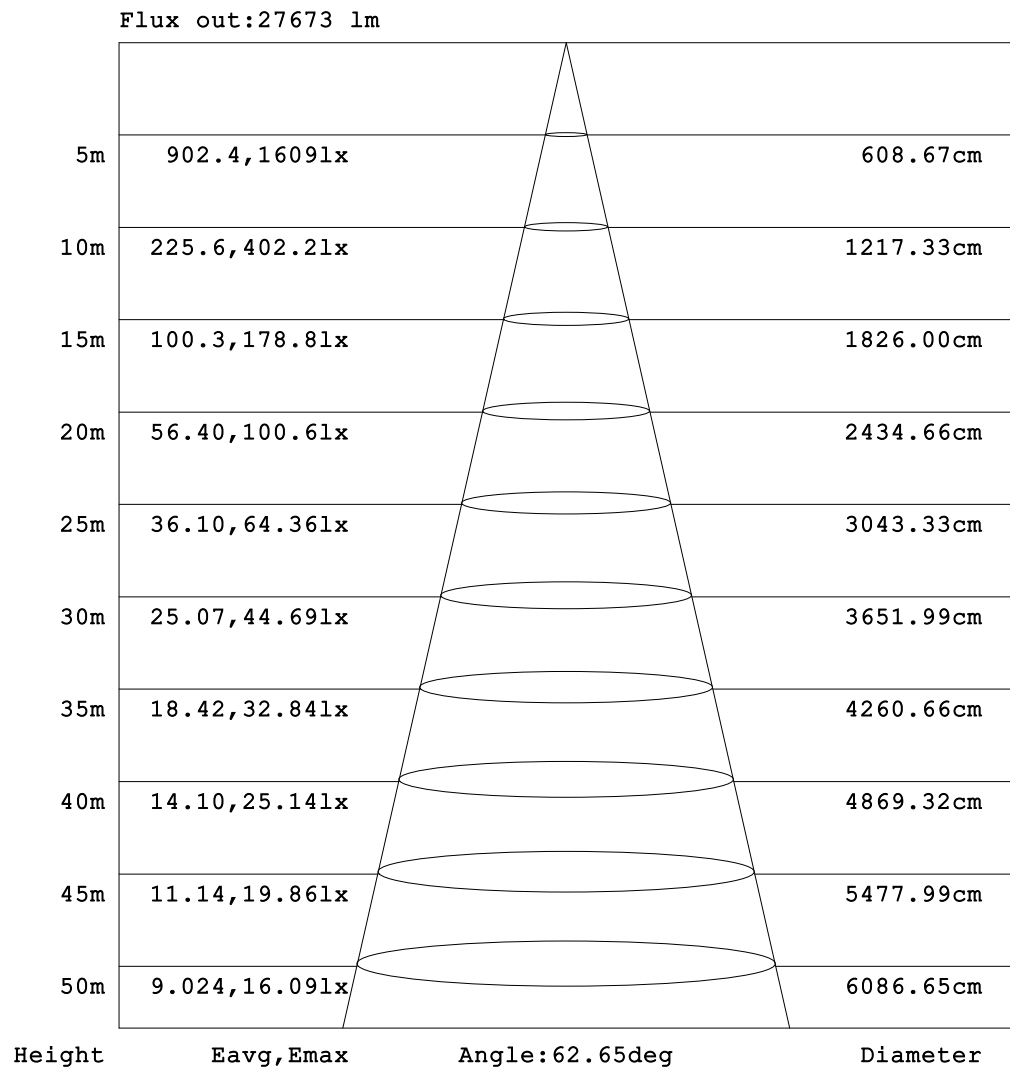


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:1.3879A P:298.50W PF:0.9838 Freq:58.98Hz Lamp Flux:55217.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



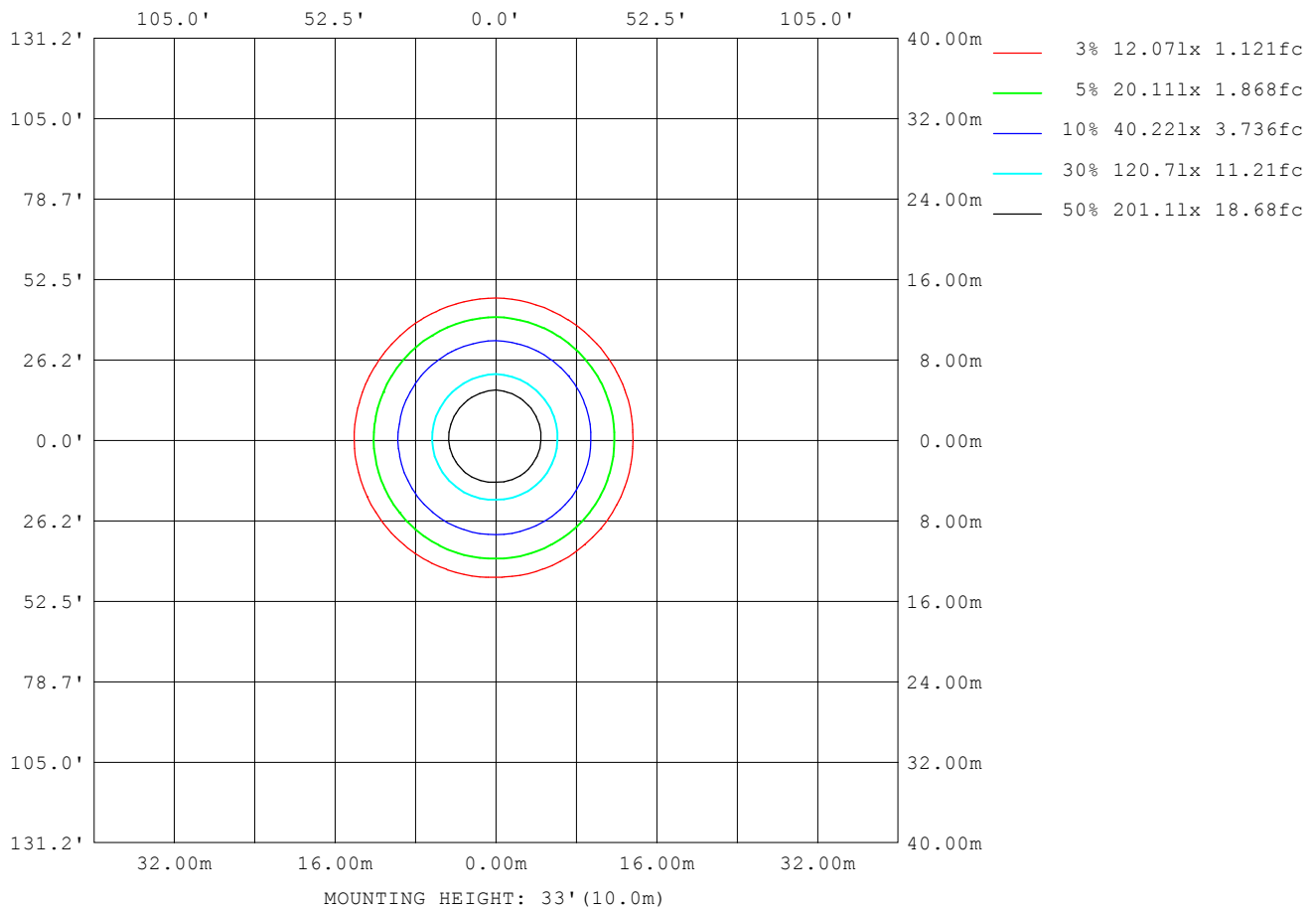
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:1.3879A P:298.50W PF:0.9838 Freq:58.98Hz Lamp Flux:55217.7x1 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:2024-12-14

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:1.3879A P:298.50W PF:0.9838 Freq:58.98Hz Lamp Flux:55217.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

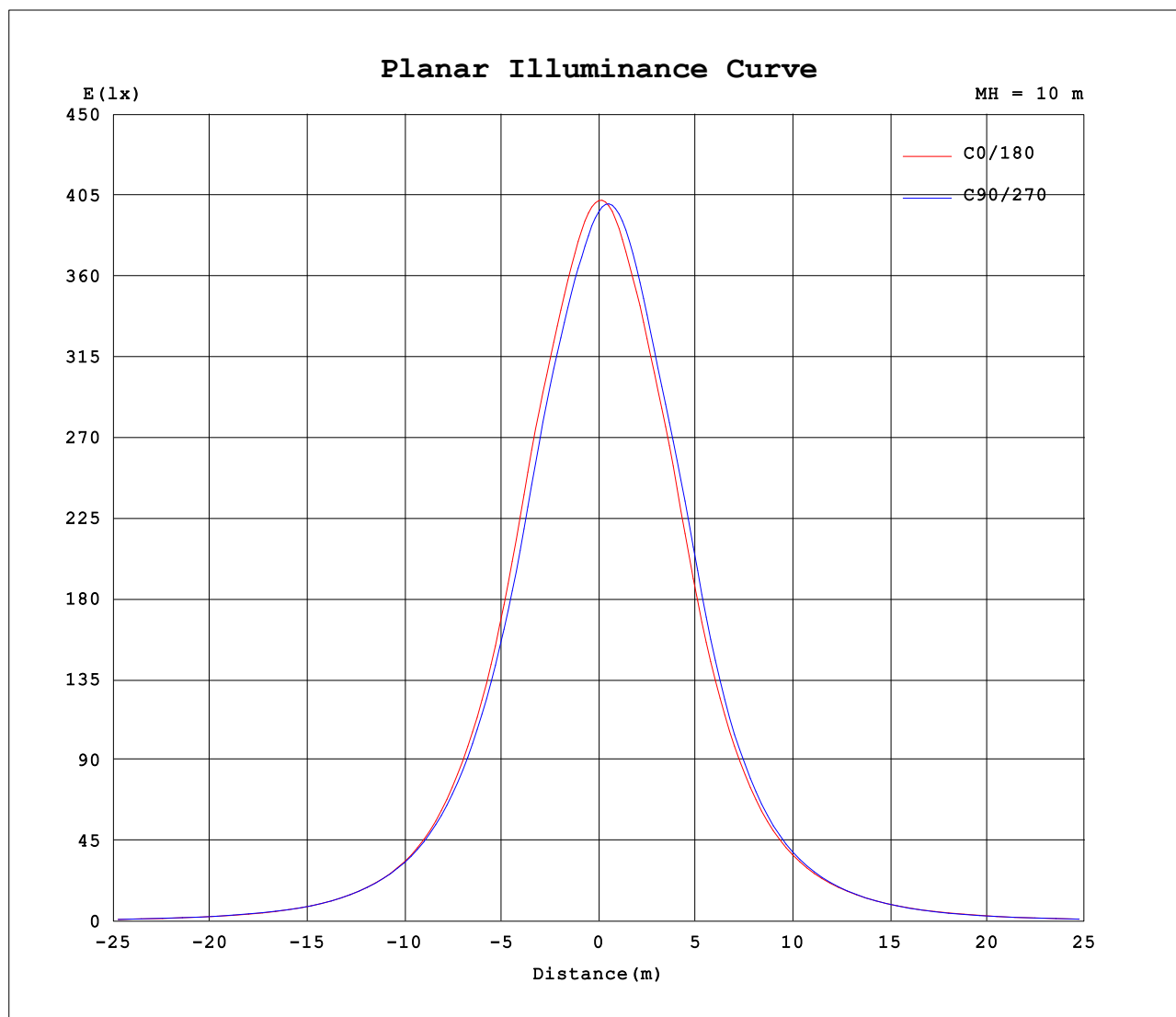
AvgL	cd/m2
L_0~180 (65) av	72236
L_0~180 (75) av	53598
L_0~180 (85) av	28677
L_90~270 (65) av	72156
L_90~270 (75) av	53305
L_90~270 (85) av	28346
L_45 (65) av	72493
L_45 (75) av	53840
L_45 (85) av	28776

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:1.3879A P:298.50W PF:0.9838 Freq:58.98Hz Lamp Flux:55217.7x1 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	4022	3959	4022	3959														
5	3900	3748	3962	4022														
10	3660	3499	3754	3900														
15	3381	3210	3502	3647														
20	3022	2790	3198	3354														
25	2533	2331	2737	2980														
30	2049	1915	2232	2424														
35	1634	1535	1779	1897														
40	1248	1202	1372	1460														
45	946	933	1051	1099														
50	723	721	809	827														
55	537	539	611	613														
60	393	400	450	444														
65	284	291	326	319														
70	202	208	233	227														
75	121	121	156	155														
80	59.1	58.4	78.3	78.0														
85	20.7	20.1	29.3	29.3														
90	16.3	16.1	10.6	10.5														
95	15.0	14.9	11.1	11.0														
100	14.3	14.2	11.8	11.7														
105	14.1	14.1	12.8	12.7														
110	14.5	14.6	14.0	13.9														
115	15.4	15.7	15.5	15.3														
120	16.9	17.3	17.2	16.9														
125	18.7	19.3	19.1	18.7														
130	20.9	21.7	21.2	20.7														
135	23.4	24.3	23.4	22.9														
140	25.9	27.0	25.8	25.2														
145	28.6	29.7	28.1	27.5														
150	31.2	32.3	30.3	29.9														
155	33.6	34.8	32.5	32.1														
160	35.7	36.9	34.4	34.2														
165	37.6	38.6	36.2	36.2														
170	39.0	39.8	37.8	37.9														
175	39.7	40.4	39.1	39.3														
180	39.7	40.3	39.9	40.1														

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: