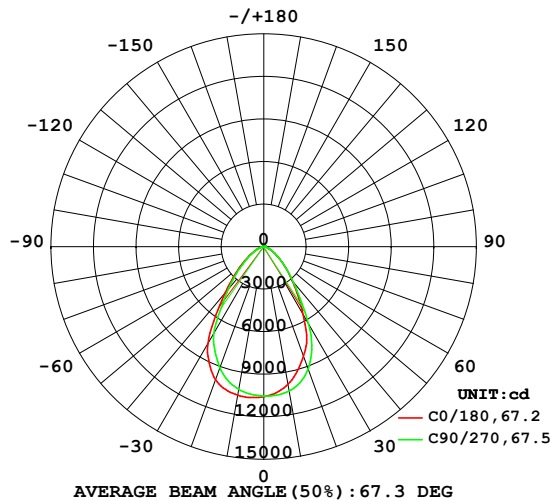


LUMINAIRE PHOTOMETRIC TEST REPORT

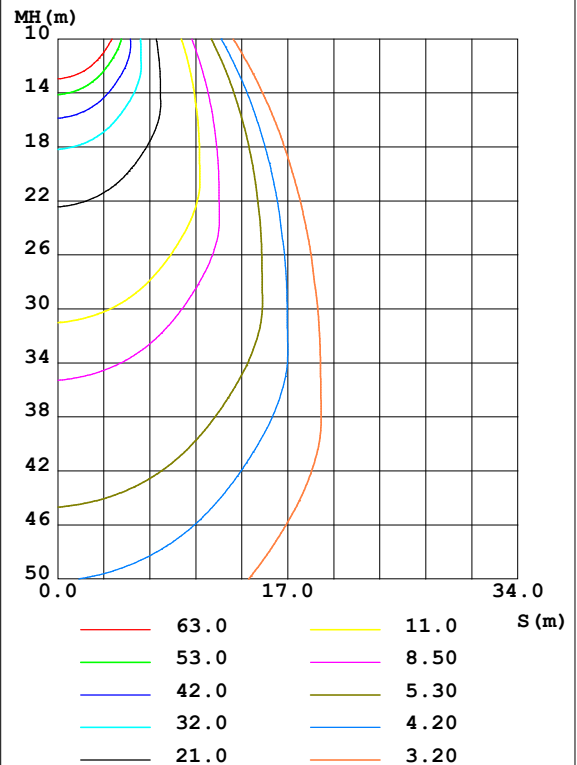
Test:U:218.89V I:0.4844A P:100.94W PF:0.9519 Freq:58.98Hz Lamp Flux:15065.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 149.25 lm/W			
MODEL		I _{max} (cd)	10692	S/MH (C0/180)	1.07
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.02
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	15065	η UP, DN (C0-180)	1.2, 45.0
NOMINAL FLUX (lm)	15065.1	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 52.7
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	97.7	CIBSE SHR MAX	1.05

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	986.1	1034	1064	1022					0- 10	994.6	994.6	6.6, 6.6
20	820.8	917.0	998.6	908.0					10- 20	2752	3747	24.9, 24.9
30	556.5	634.5	788.9	707.5					20- 30	3691	7438	49.4, 49.4
40	315.7	324.7	423.8	386.7					30- 40	3130	10568	70.1, 70.1
50	165.8	167.0	215.0	196.9					40- 50	2045	12612	83.7, 83.7
60	80.37	81.56	100.9	92.35					50- 60	1176	13788	91.5, 91.5
70	35.16	36.42	44.20	40.03					60- 70	608.3	14396	95.6, 95.6
80	10.34	11.31	14.98	13.46					70- 80	258.7	14655	97.3, 97.3
90	3.965	4.017	2.675	2.665					80- 90	63.66	14719	97.7, 97.7
100	3.525	3.516	3.061	3.047					90-100	35.75	14755	97.9, 97.9
110	3.715	3.642	3.641	3.671					100-110	36.37	14791	98.2, 98.2
120	4.626	4.426	4.484	4.597					110-120	40.23	14831	98.4, 98.4
130	6.018	5.707	5.631	5.818					120-130	45.97	14877	98.8, 98.8
140	7.614	7.274	6.998	7.262					130-140	50.37	14927	99.1, 99.1
150	9.306	9.010	8.525	8.892					140-150	50.70	14978	99.4, 99.4
160	10.75	10.64	9.961	10.34					150-160	44.69	15023	99.7, 99.7
170	11.71	11.82	11.16	11.45					160-170	31.07	15054	99.9, 99.9
180	11.91	12.23	11.98	12.16					170-180	11.25	15065	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 11715 lm

%lum = 77.8%

%lamp = 77.8%

Conical surface Flux(120deg): 13788 lm

%lum = 91.5%

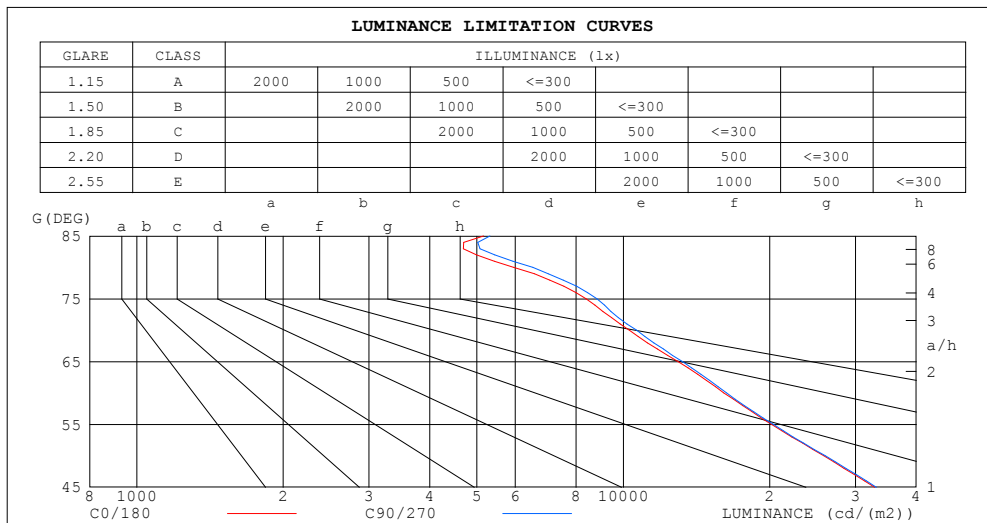
%lamp = 91.5%

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:218.89V I:0.4844A P:100.94W PF:0.9519 Freq:58.98Hz Lamp Flux:15065.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5161	5317
80	5953	6513
75	8378	8821
70	10279	10648
65	12952	13222
60	16074	16312
55	20147	20348
50	25791	25982
45	32880	33106

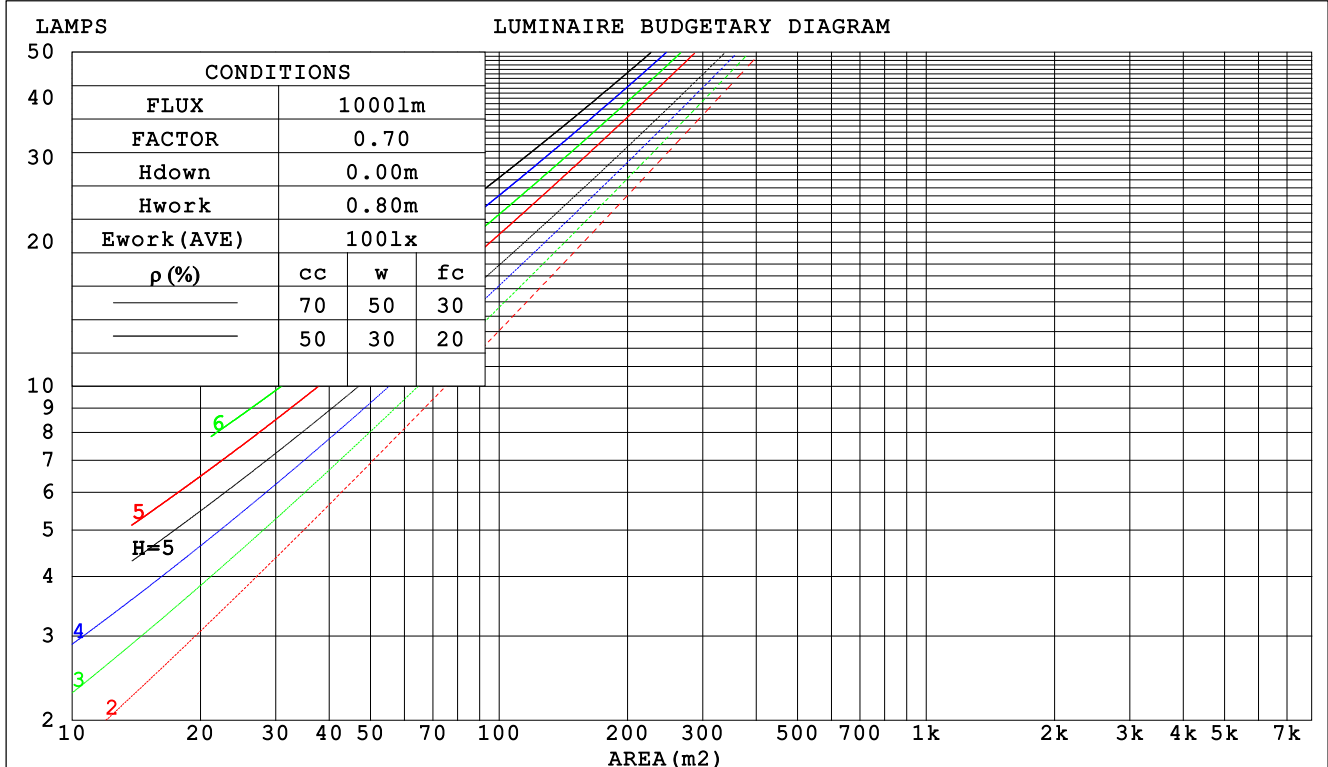
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.89V I:0.4844A P:100.94W PF:0.9519 Freq:58.98Hz Lamp Flux:15065.1x1 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	1.05	1.02	1.05	1.03	.00	1.01	.99	.96	.97	.95	.93	.93	.91	.90	.88
2.0	.98	.93	.88	.96	.91	.87	.92	.88	.85	.89	.85	.83	.85	.83	.81	.79
3.0	.89	.83	.78	.87	.82	.77	.84	.79	.75	.81	.77	.74	.79	.75	.72	.71
4.0	.81	.74	.69	.80	.74	.69	.77	.72	.68	.75	.70	.66	.73	.69	.65	.64
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	.53	.50	.48
8.0	.59	.52	.47	.58	.52	.47	.57	.51	.47	.56	.50	.46	.54	.50	.46	.44
9.0	.55	.48	.43	.54	.48	.43	.53	.47	.43	.52	.47	.43	.51	.46	.42	.41
10.0	.51	.45	.40	.51	.44	.40	.50	.44	.40	.49	.43	.40	.48	.43	.39	.38



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
 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:218.89V I:0.4844A P:100.94W PF:0.9519 Freq:58.98Hz Lamp Flux:15065.1x1 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	.225	.128	.040	.217	.124	.039	.203	.117	.037	.190	.110	.035	.178	.103	.033	
2.0	.216	.118	.036	.210	.115	.036	.197	.110	.034	.186	.104	.033	.176	.099	.031	
3.0	.205	.109	.033	.199	.107	.032	.188	.102	.031	.179	.098	.030	.169	.094	.029	
4.0	.193	.100	.030	.188	.099	.029	.179	.095	.028	.170	.091	.028	.162	.088	.027	
5.0	.182	.093	.027	.178	.091	.027	.170	.088	.026	.162	.085	.025	.155	.083	.025	
6.0	.172	.086	.025	.168	.085	.024	.161	.082	.024	.154	.080	.024	.147	.078	.023	
7.0	.163	.081	.023	.159	.079	.023	.153	.077	.022	.146	.075	.022	.141	.073	.021	
8.0	.154	.075	.021	.151	.074	.021	.145	.073	.021	.139	.071	.020	.134	.069	.020	
9.0	.146	.071	.020	.144	.070	.020	.138	.068	.019	.133	.067	.019	.128	.065	.019	
10.0	.139	.067	.019	.137	.066	.018	.132	.065	.018	.127	.063	.018	.123	.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	.178	.178	.178	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.192	.175	.159	.164	.150	.137	.112	.103	.094	.065	.060	.055	.021	.019	.018	
2.0	.180	.150	.125	.154	.129	.108	.106	.089	.075	.061	.052	.044	.020	.017	.014	
3.0	.170	.132	.101	.146	.114	.088	.100	.079	.062	.058	.046	.036	.019	.015	.012	
4.0	.161	.118	.085	.138	.102	.073	.095	.071	.052	.055	.042	.031	.018	.014	.010	
5.0	.153	.107	.072	.132	.092	.063	.091	.064	.044	.053	.038	.026	.017	.012	.009	
6.0	.146	.098	.063	.126	.085	.055	.087	.059	.039	.050	.035	.023	.016	.011	.008	
7.0	.140	.091	.056	.120	.079	.049	.083	.055	.035	.048	.032	.021	.016	.011	.007	
8.0	.134	.085	.051	.116	.074	.044	.080	.052	.031	.046	.030	.019	.015	.010	.006	
9.0	.129	.080	.047	.111	.069	.041	.077	.049	.029	.045	.029	.017	.015	.009	.006	
10.0	.124	.076	.043	.107	.066	.038	.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: 2024-12-17

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:218.89V I:0.4844A P:100.94W PF:0.9519 Freq:58.98Hz Lamp Flux:15065.1x1 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	13.1	12.2	13.3	13.6	12.0	13.2	12.3	13.4	13.7
3H	12.3	13.4	12.6	13.7	13.9	12.4	13.5	12.7	13.8	14.0
4H	12.4	13.5	12.8	13.7	14.0	12.6	13.6	12.9	13.8	14.1
6H	12.5	13.4	12.8	13.7	14.0	12.6	13.6	13.0	13.8	14.2
8H	12.5	13.4	12.8	13.7	14.0	12.6	13.5	13.0	13.8	14.1
12H	12.4	13.3	12.8	13.6	14.0	12.6	13.4	12.9	13.8	14.1
4H 2H	12.1	13.1	12.4	13.4	13.6	12.2	13.2	12.5	13.4	13.7
3H	12.6	13.5	13.0	13.8	14.1	12.7	13.6	13.1	13.9	14.2
4H	12.8	13.6	13.2	13.9	14.3	12.9	13.7	13.3	14.0	14.4
6H	12.9	13.6	13.3	14.0	14.4	13.0	13.7	13.4	14.1	14.5
8H	12.9	13.5	13.3	13.9	14.3	13.0	13.6	13.4	14.0	14.5
12H	12.9	13.5	13.3	13.9	14.3	13.0	13.6	13.4	14.0	14.4
8H 4H	12.8	13.4	13.2	13.8	14.3	12.9	13.5	13.3	13.9	14.4
6H	12.9	13.5	13.4	13.9	14.4	13.1	13.6	13.5	14.0	14.5
8H	13.0	13.4	13.5	13.9	14.4	13.1	13.6	13.6	14.0	14.5
12H	13.0	13.4	13.5	13.9	14.4	13.1	13.5	13.6	14.0	14.5
12H 4H	12.8	13.4	13.2	13.8	14.2	12.9	13.4	13.3	13.9	14.3
6H	12.9	13.4	13.4	13.8	14.3	13.0	13.5	13.5	14.0	14.5
8H	13.0	13.4	13.5	13.8	14.4	13.1	13.5	13.6	14.0	14.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.1					+ 0.8 / - 1.1				
1.5H	+ 0.9 / - 0.7					+ 0.9 / - 0.7				
2.0H	+ 1.7 / - 1.3					+ 1.7 / - 1.3				

CIE Pub.117, 15065 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 9.4$)
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:218.89V I:0.4844A P:100.94W PF:0.9519 Freq:58.98Hz Lamp Flux:15065.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

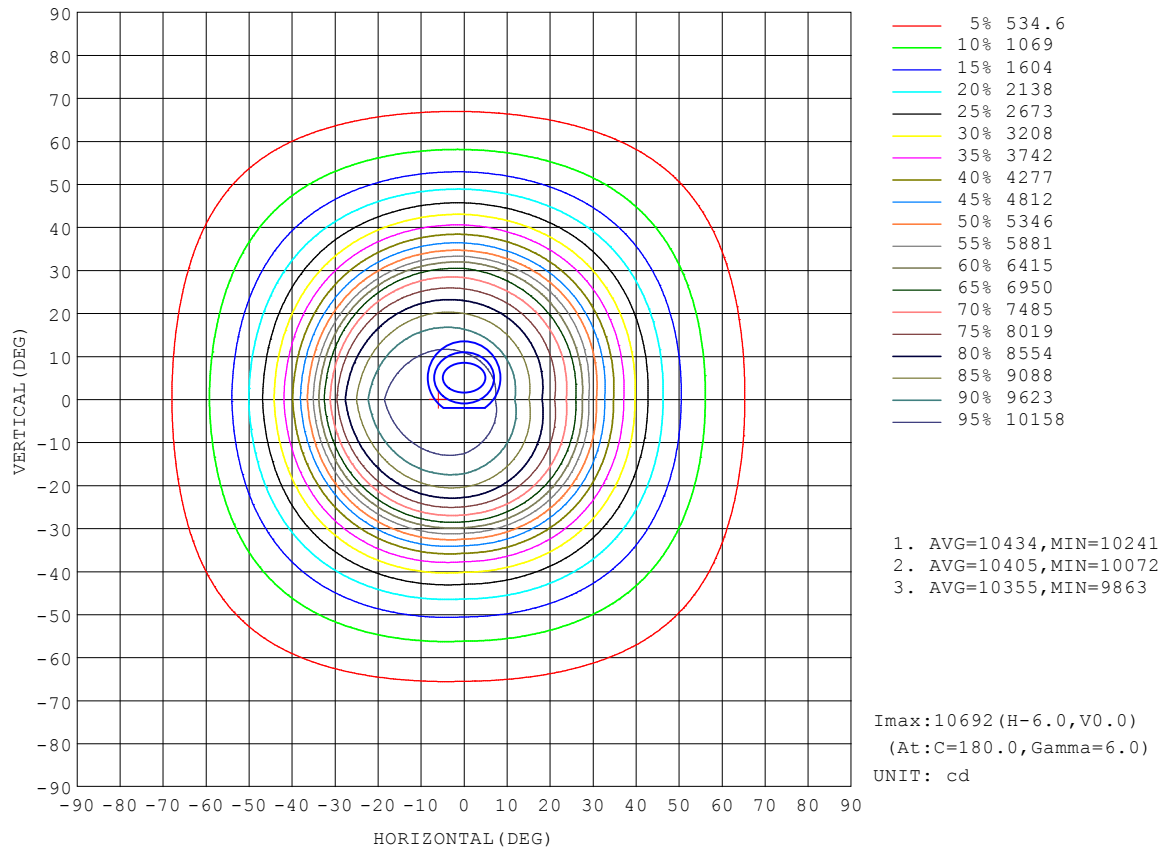
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	59	72	64	59	71	63	58	53
0.80	82	73	68	81	73	68	79	72	67	62
1.00	89	81	75	87	80	75	85	80	74	69
1.25	94	87	82	93	86	81	90	85	80	75
1.50	98	91	86	96	90	86	94	88	84	78
2.00	103	97	92	101	95	91	97	93	90	83
2.50	105	100	95	103	98	94	99	95	92	85
3.00	107	103	99	105	101	98	101	98	95	87
4.00	110	106	103	108	104	101	104	101	98	90
5.00	112	108	106	109	106	104	105	103	100	92
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:218.89V I:0.4844A P:100.94W PF:0.9519 Freq:58.98Hz Lamp Flux:15065.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

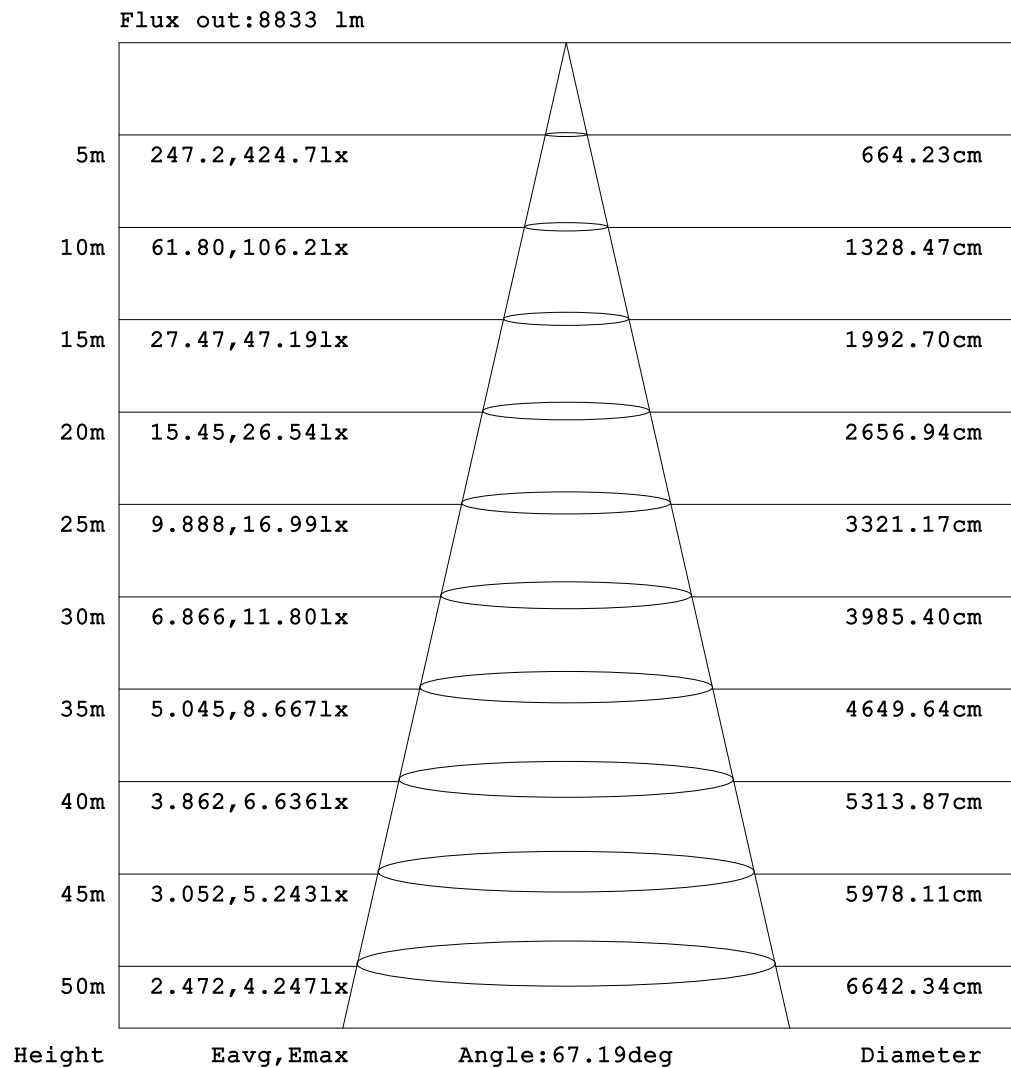


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.89V I:0.4844A P:100.94W PF:0.9519 Freq:58.98Hz Lamp Flux:15065.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



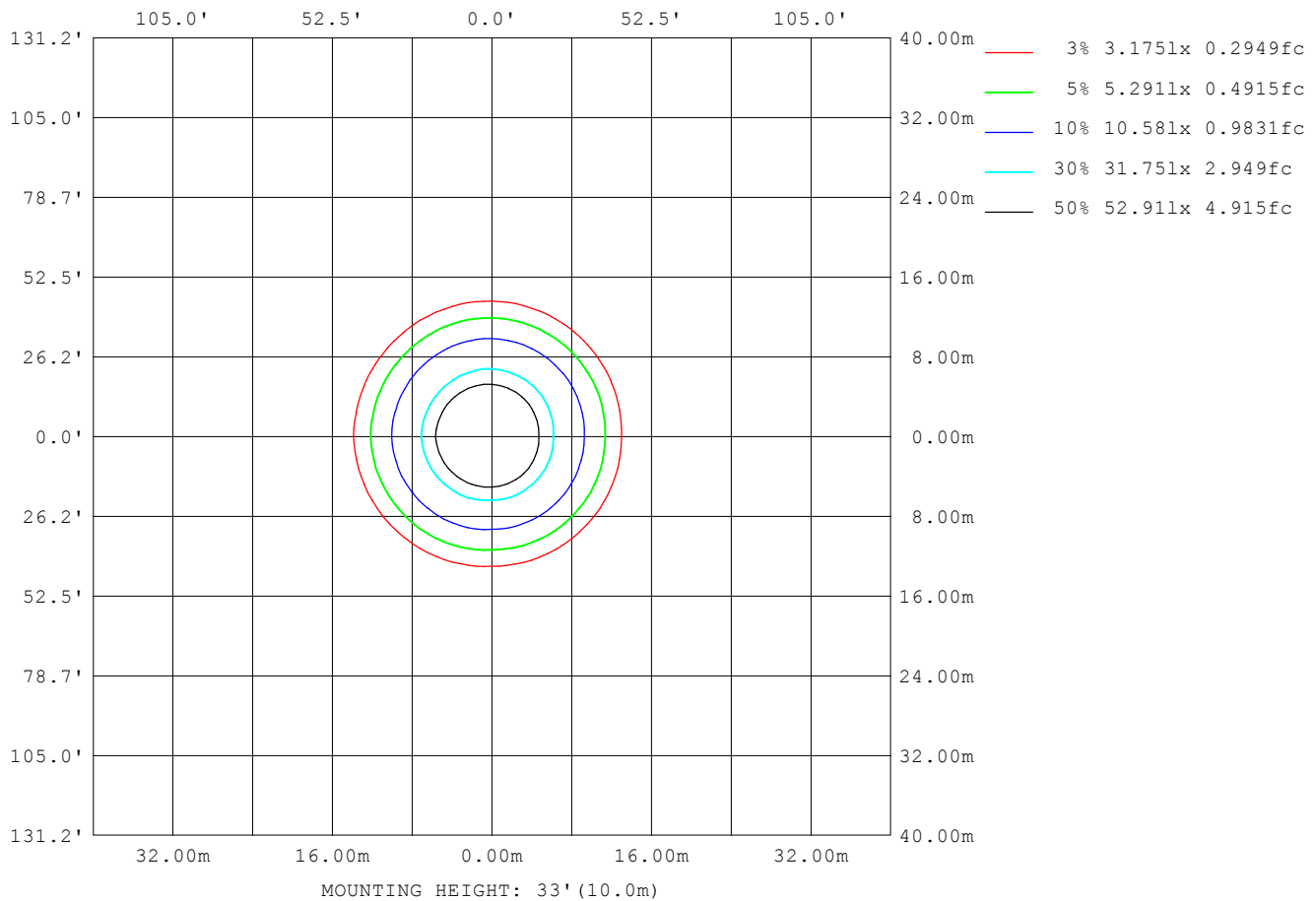
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:218.89V I:0.4844A P:100.94W PF:0.9519 Freq:58.98Hz Lamp Flux:15065.1x1 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:218.89V I:0.4844A P:100.94W PF:0.9519 Freq:58.98Hz Lamp Flux:15065.1x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

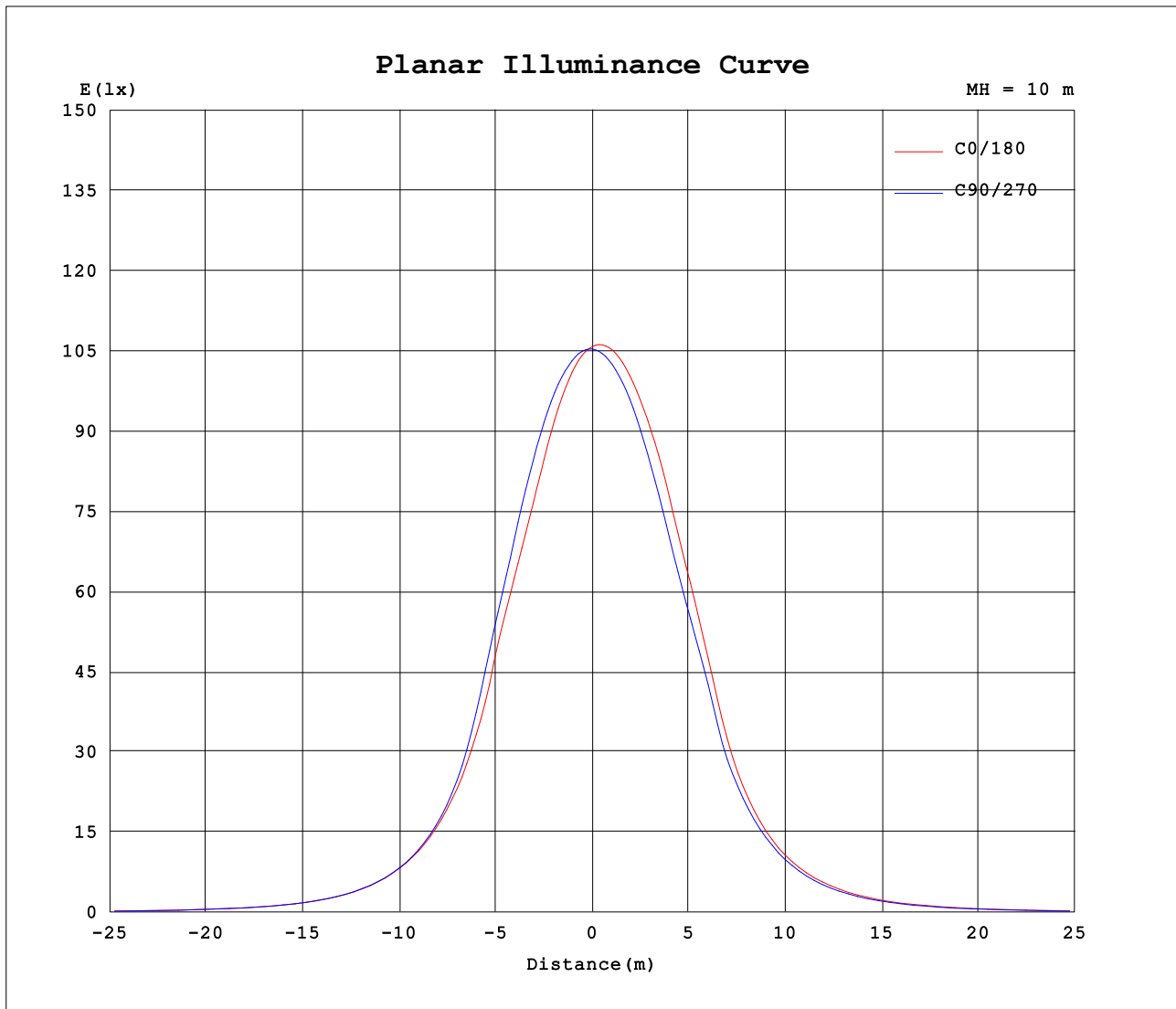
AvgL	cd/m2
L_0~180 (65) av	14649
L_0~180 (75) av	9398
L_0~180 (85) av	5413
L_90~270 (65) av	14015
L_90~270 (75) av	9139
L_90~270 (85) av	5155
L_45 (65) av	14359
L_45 (75) av	9300
L_45 (85) av	5268

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:218.89V I:0.4844A P:100.94W PF:0.9519 Freq:58.98Hz Lamp Flux:15065.1x1 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	1058	1054	1058	1054															
5	1034	1051	1069	1044															
10	986	1034	1064	1022															
15	911	993	1044	978															
20	821	917	999	908															
25	720	801	909	815															
30	557	634	789	708															
35	422	451	592	521															
40	316	325	424	387															
45	232	234	304	280															
50	166	167	215	197															
55	116	117	149	136															
60	80.4	81.6	101	92.4															
65	54.7	55.9	69.1	62.6															
70	35.2	36.4	44.2	40.0															
75	21.7	22.8	27.0	24.5															
80	10.3	11.3	15.0	13.5															
85	4.50	4.63	4.94	4.35															
90	3.96	4.02	2.68	2.66															
95	3.67	3.69	2.84	2.83															
100	3.52	3.52	3.06	3.05															
105	3.54	3.51	3.32	3.32															
110	3.71	3.64	3.64	3.67															
115	4.08	3.94	4.03	4.10															
120	4.63	4.43	4.48	4.60															
125	5.28	5.02	5.01	5.17															
130	6.02	5.71	5.63	5.82															
135	6.80	6.46	6.29	6.52															
140	7.61	7.27	7.00	7.26															
145	8.46	8.13	7.74	8.07															
150	9.31	9.01	8.53	8.89															
155	10.1	9.86	9.27	9.65															
160	10.7	10.6	9.96	10.3															
165	11.3	11.3	10.6	11.0															
170	11.7	11.8	11.2	11.5															
175	12.0	12.2	11.6	11.9															
180	11.9	12.2	12.0	12.2															

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: