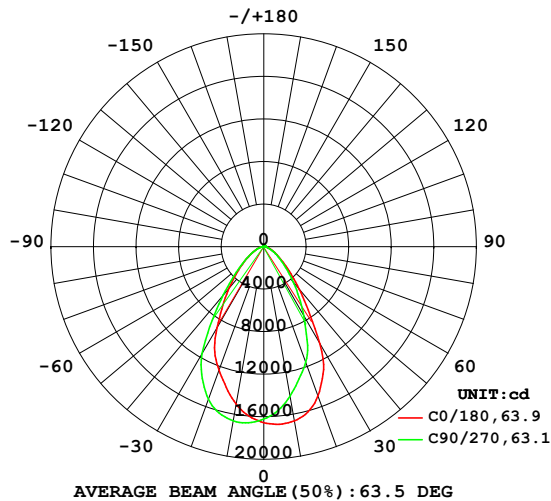


LUMINAIRE PHOTOMETRIC TEST REPORT

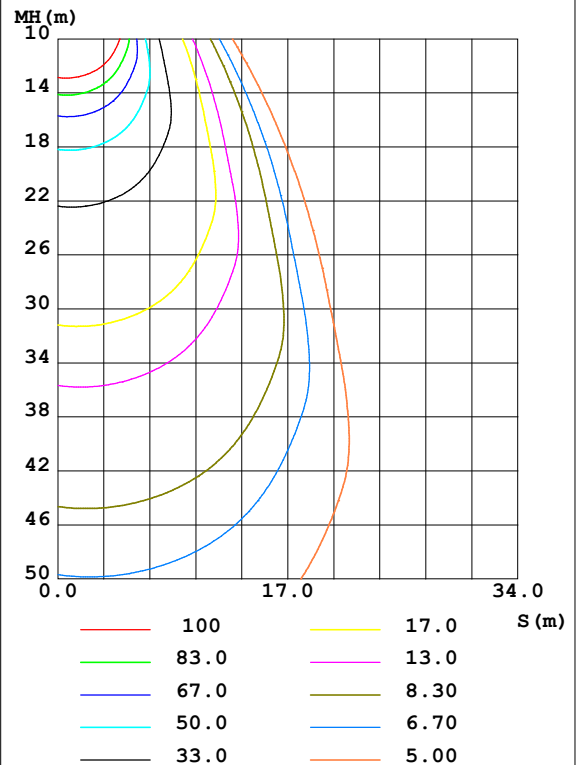
Test:U:218.77V I:0.7161A P:150.32W PF:0.9595 Freq:58.98Hz Lamp Flux:21992.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.31 lm/W			
MODEL		I _{max} (cd)	16763	S/MH (C0/180)	0.92
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.04
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	21993	η UP, DN (C0-180)	1.2, 46.6
NOMINAL FLUX (lm)	21992.9	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 51.2
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: 2024-12-17

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	1663	1427	1504	1662					0- 10	1529	1529	6.95, 6.95
20	1493	1155	1234	1527					10- 20	4128	5657	25.7, 25.7
30	1055	756.1	880.3	1163					20- 30	5398	11054	50.3, 50.3
40	518.5	428.8	505.5	595.2					30- 40	4455	15509	70.5, 70.5
50	253.8	229.9	270.2	284.9					40- 50	2853	18362	83.5, 83.5
60	126.2	119.6	141.3	139.8					50- 60	1685	20047	91.2, 91.2
70	59.36	55.54	65.86	65.45					60- 70	918.1	20965	95.3, 95.3
80	19.74	16.97	23.37	23.90					70- 80	418.4	21384	97.2, 97.2
90	6.183	5.845	4.111	3.957					80- 90	106.0	21490	97.7, 97.7
100	5.353	5.219	4.640	4.494					90-100	53.78	21544	98, 98
110	5.398	5.527	5.609	5.289					100-110	54.28	21598	98.2, 98.2
120	6.304	6.872	7.035	6.462					110-120	59.54	21657	98.5, 98.5
130	7.935	8.909	8.845	8.043					120-130	67.25	21725	98.8, 98.8
140	10.01	11.20	10.92	9.975					130-140	73.02	21798	99.1, 99.1
150	12.31	13.43	13.11	12.13					140-150	72.85	21870	99.4, 99.4
160	14.57	15.27	14.71	14.05					150-160	63.28	21934	99.7, 99.7
170	16.29	16.52	16.07	15.60					160-170	43.50	21977	99.9, 99.9
180	16.93	16.79	17.06	16.69					170-180	15.71	21993	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 17114 lm

%lum = 77.8%

%lamp = 77.8%

Conical surface Flux(120deg): 20047 lm

%lum = 91.2%

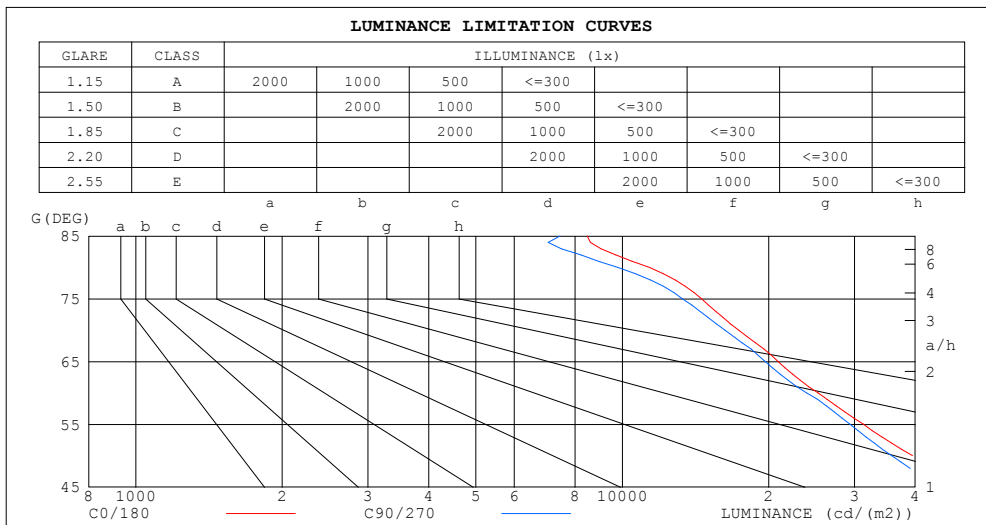
%lamp = 91.2%

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:

LUMINANCE LIMITATION CURVES

Test:U:218.77V I:0.7161A P:150.32W PF:0.9595 Freq:58.98Hz Lamp Flux:21992.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8473	7447
80	11369	9775
75	14550	13286
70	17356	16239
65	20894	19668
60	25245	23928
55	31307	29381
50	39479	35767
45	51248	44591

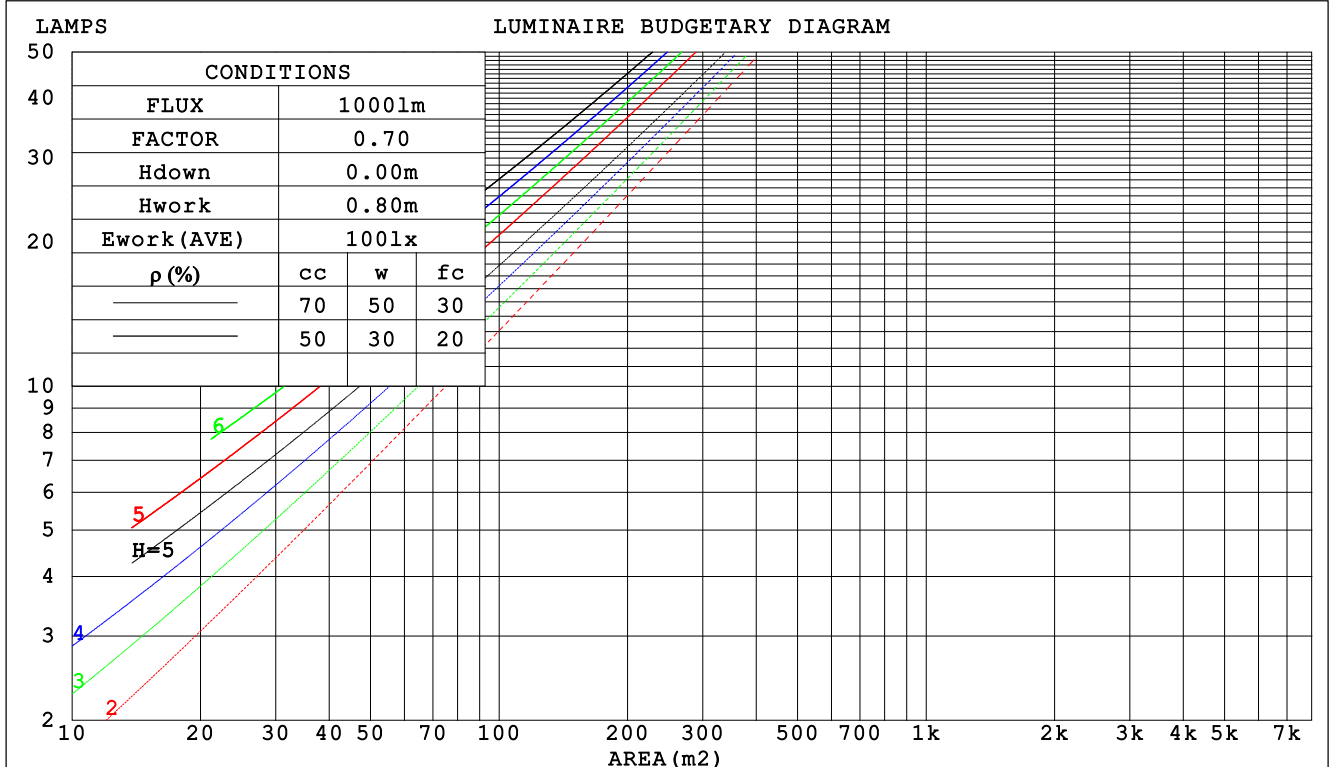
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-12-17

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:218.77V I:0.7161A P:150.32W PF:0.9595 Freq:58.98Hz Lamp Flux:21992.9x1 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	1.02	.00	1.01	.98	.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	.75	.69	.80	.74	.69	.77	.72	.68	.75	.70	.67	.73	.69	.66	.64
5.0	.75	.68	.62	.74	.67	.62	.71	.66	.61	.69	.64	.60	.68	.63	.60	.58
6.0	.69	.62	.57	.68	.61	.56	.66	.60	.56	.64	.59	.55	.63	.58	.55	.53
7.0	.64	.57	.52	.63	.56	.51	.61	.55	.51	.60	.55	.51	.59	.54	.50	.48
8.0	.59	.52	.47	.59	.52	.47	.57	.51	.47	.56	.51	.47	.55	.50	.46	.45
9.0	.55	.49	.44	.55	.48	.44	.54	.48	.43	.52	.47	.43	.51	.46	.43	.41
10.0	.52	.45	.41	.51	.45	.41	.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:2024-12-17

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:218.77V I:0.7161A P:150.32W PF:0.9595 Freq:58.98Hz Lamp Flux:21992.9x1 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	.041	.218	.124	.039	.204	.117	.037	.191	.110	.035	.179	.104	.033	
2.0	.216	.119	.036	.210	.116	.036	.198	.110	.034	.186	.104	.033	.176	.099	.031	
3.0	.204	.109	.033	.199	.106	.032	.188	.102	.031	.178	.098	.030	.169	.094	.029	
4.0	.193	.100	.029	.188	.098	.029	.178	.095	.028	.170	.091	.027	.161	.088	.027	
5.0	.182	.093	.027	.177	.091	.027	.169	.088	.026	.161	.085	.025	.154	.082	.025	
6.0	.171	.086	.025	.168	.085	.024	.160	.082	.024	.153	.080	.023	.147	.077	.023	
7.0	.162	.080	.023	.159	.079	.023	.152	.077	.022	.146	.075	.022	.140	.073	.021	
8.0	.154	.075	.021	.150	.074	.021	.144	.072	.021	.139	.070	.020	.133	.068	.020	
9.0	.146	.070	.020	.143	.070	.020	.137	.068	.019	.132	.066	.019	.127	.065	.019	
10.0	.139	.066	.018	.136	.066	.018	.131	.064	.018	.126	.063	.018	.122	.061	.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	.174	.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	.145	.114	.088	.100	.079	.062	.058	.046	.036	.019	.015	.012	
4.0	.161	.118	.085	.138	.102	.073	.095	.071	.052	.055	.041	.031	.018	.014	.010	
5.0	.153	.107	.072	.131	.092	.063	.090	.064	.044	.052	.038	.026	.017	.012	.009	
6.0	.146	.098	.063	.125	.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	.115	.073	.044	.080	.052	.031	.046	.030	.019	.015	.010	.006	
9.0	.128	.080	.047	.111	.069	.041	.077	.049	.029	.045	.029	.017	.014	.009	.006	
10.0	.123	.075	.043	.106	.065	.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:218.77V I:0.7161A P:150.32W PF:0.9595 Freq:58.98Hz Lamp Flux:21992.9x1 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	12.4	13.5	12.6	13.7	14.0	11.9	13.0	12.2	13.3	13.5
3H	12.8	13.9	13.1	14.1	14.4	12.4	13.4	12.7	13.7	13.9
4H	13.0	14.0	13.3	14.3	14.5	12.5	13.5	12.8	13.8	14.1
6H	13.0	14.0	13.4	14.3	14.6	12.6	13.5	12.9	13.8	14.1
8H	13.0	14.0	13.4	14.3	14.6	12.6	13.5	12.9	13.8	14.1
12H	13.0	13.9	13.4	14.2	14.6	12.5	13.4	12.9	13.7	14.1
4H 2H	12.5	13.5	12.8	13.8	14.0	12.1	13.1	12.4	13.3	13.6
3H	13.1	14.0	13.5	14.3	14.6	12.7	13.6	13.1	13.9	14.2
4H	13.3	14.1	13.7	14.5	14.8	12.9	13.7	13.3	14.1	14.4
6H	13.5	14.2	13.9	14.6	15.0	13.1	13.8	13.5	14.1	14.5
8H	13.5	14.1	13.9	14.5	15.0	13.1	13.7	13.5	14.1	14.5
12H	13.5	14.1	13.9	14.5	14.9	13.1	13.7	13.5	14.1	14.5
8H 4H	13.3	14.0	13.8	14.4	14.8	13.0	13.6	13.4	14.0	14.4
6H	13.6	14.1	14.0	14.5	15.0	13.2	13.7	13.6	14.1	14.6
8H	13.6	14.1	14.1	14.5	15.0	13.2	13.7	13.7	14.1	14.6
12H	13.6	14.0	14.1	14.5	15.0	13.2	13.6	13.7	14.1	14.6
12H 4H	13.3	13.9	13.8	14.3	14.8	12.9	13.5	13.4	13.9	14.4
6H	13.5	14.0	14.0	14.5	15.0	13.2	13.6	13.6	14.1	14.6
8H	13.6	14.0	14.1	14.5	15.0	13.2	13.6	13.7	14.1	14.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.1					+ 0.7 / - 1.0				
1.5H	+ 1.2 / - 0.7					+ 0.8 / - 0.7				
2.0H	+ 1.6 / - 1.2					+ 1.4 / - 1.1				

CIE Pub.117, 21993 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.7)
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:218.77V I:0.7161A P:150.32W PF:0.9595 Freq:58.98Hz Lamp Flux:21992.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

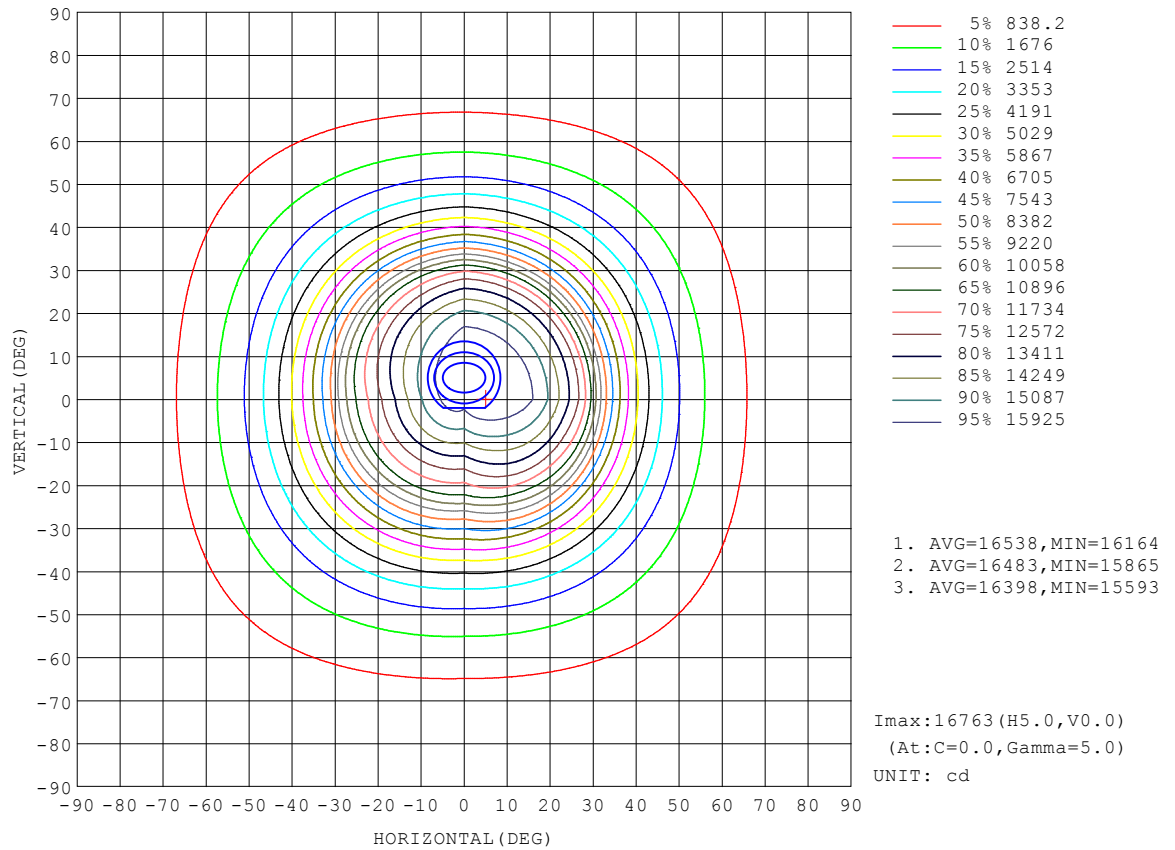
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	59	72	64	59	71	64	59	54
0.80	82	74	68	81	73	68	79	72	68	62
1.00	89	81	75	88	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	89	83
2.50	105	100	95	103	98	94	99	95	92	85
3.00	107	103	99	105	101	97	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:218.77V I:0.7161A P:150.32W PF:0.9595 Freq:58.98Hz Lamp Flux:21992.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

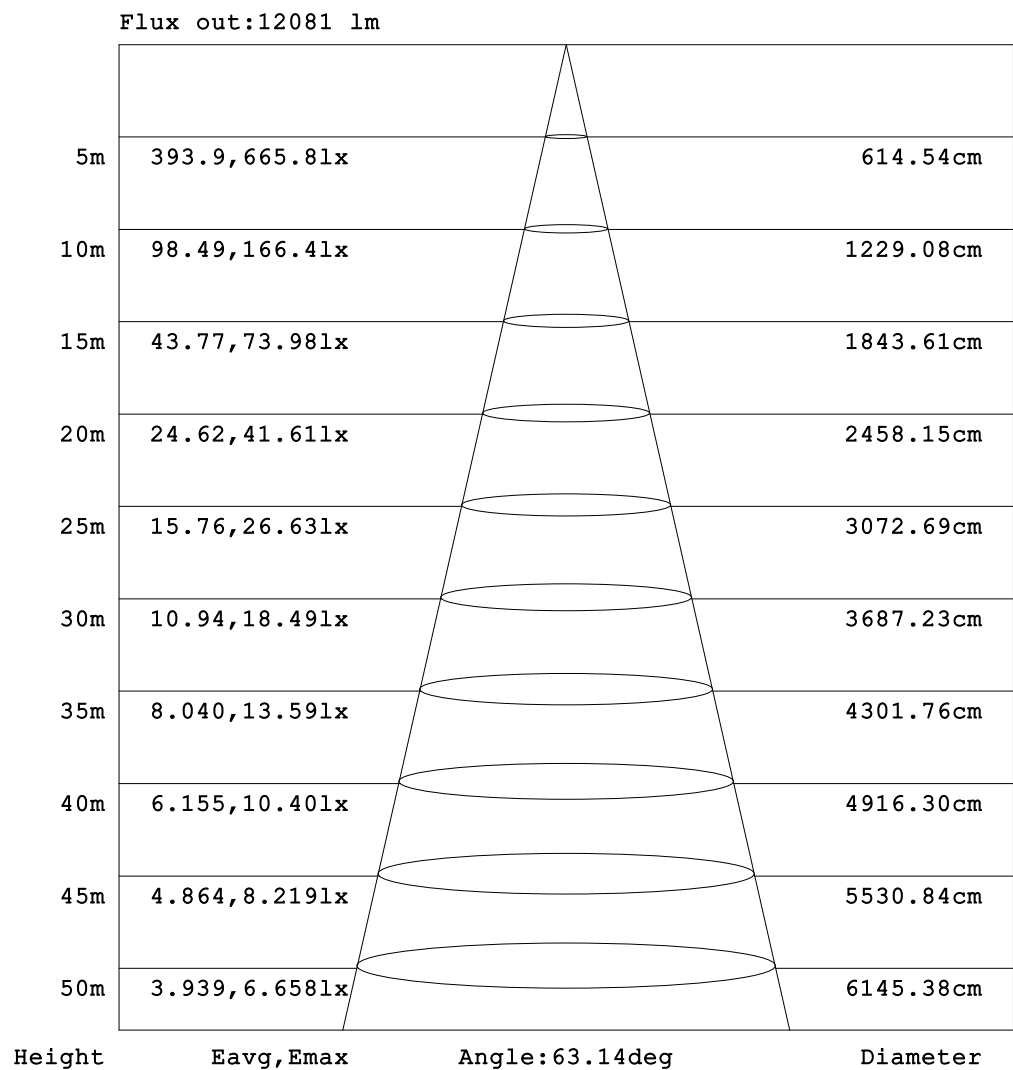


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.77V I:0.7161A P:150.32W PF:0.9595 Freq:58.98Hz Lamp Flux:21992.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



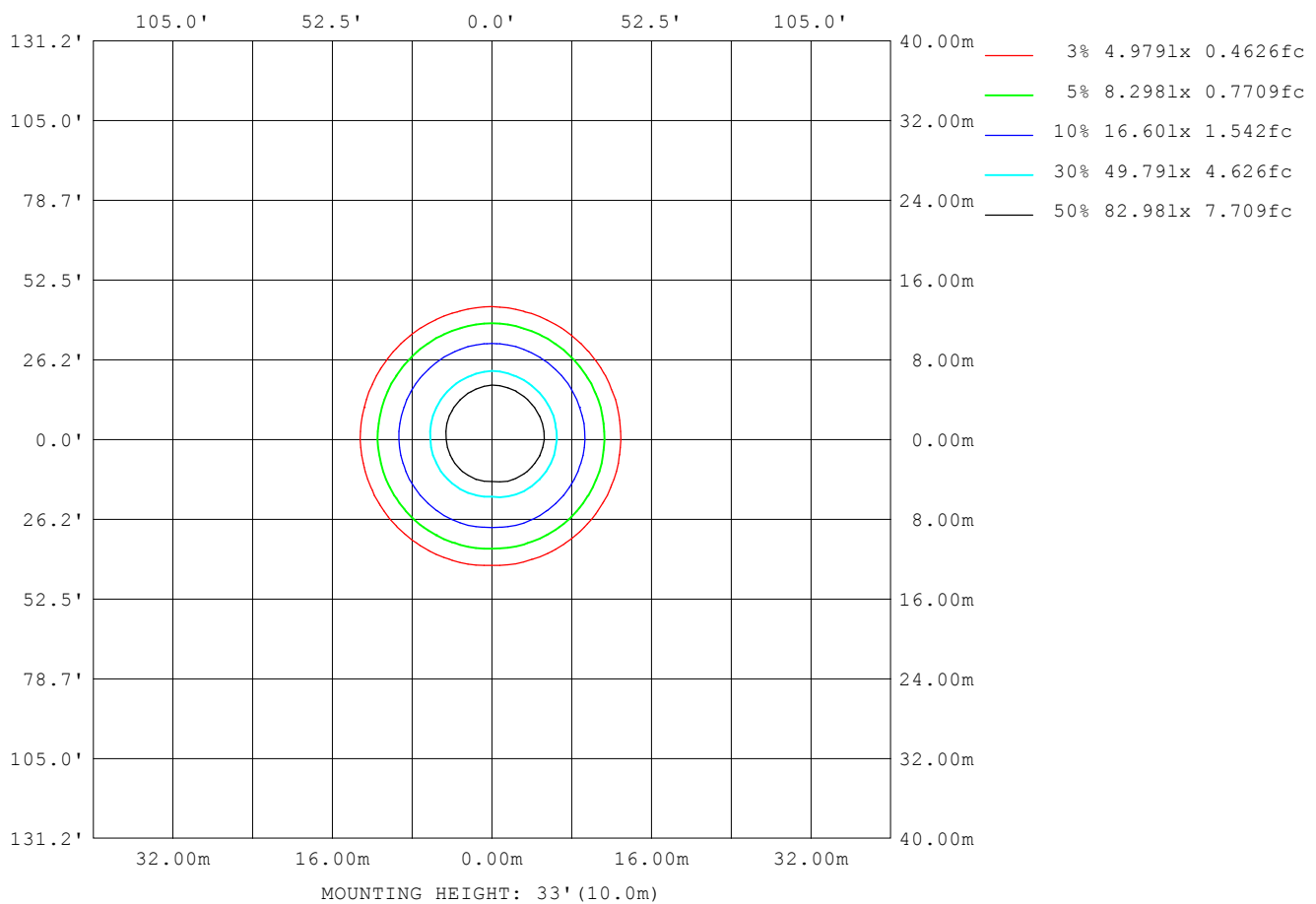
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:218.77V I:0.7161A P:150.32W PF:0.9595 Freq:58.98Hz Lamp Flux:21992.9x1 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:218.77V I:0.7161A P:150.32W PF:0.9595 Freq:58.98Hz Lamp Flux:21992.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

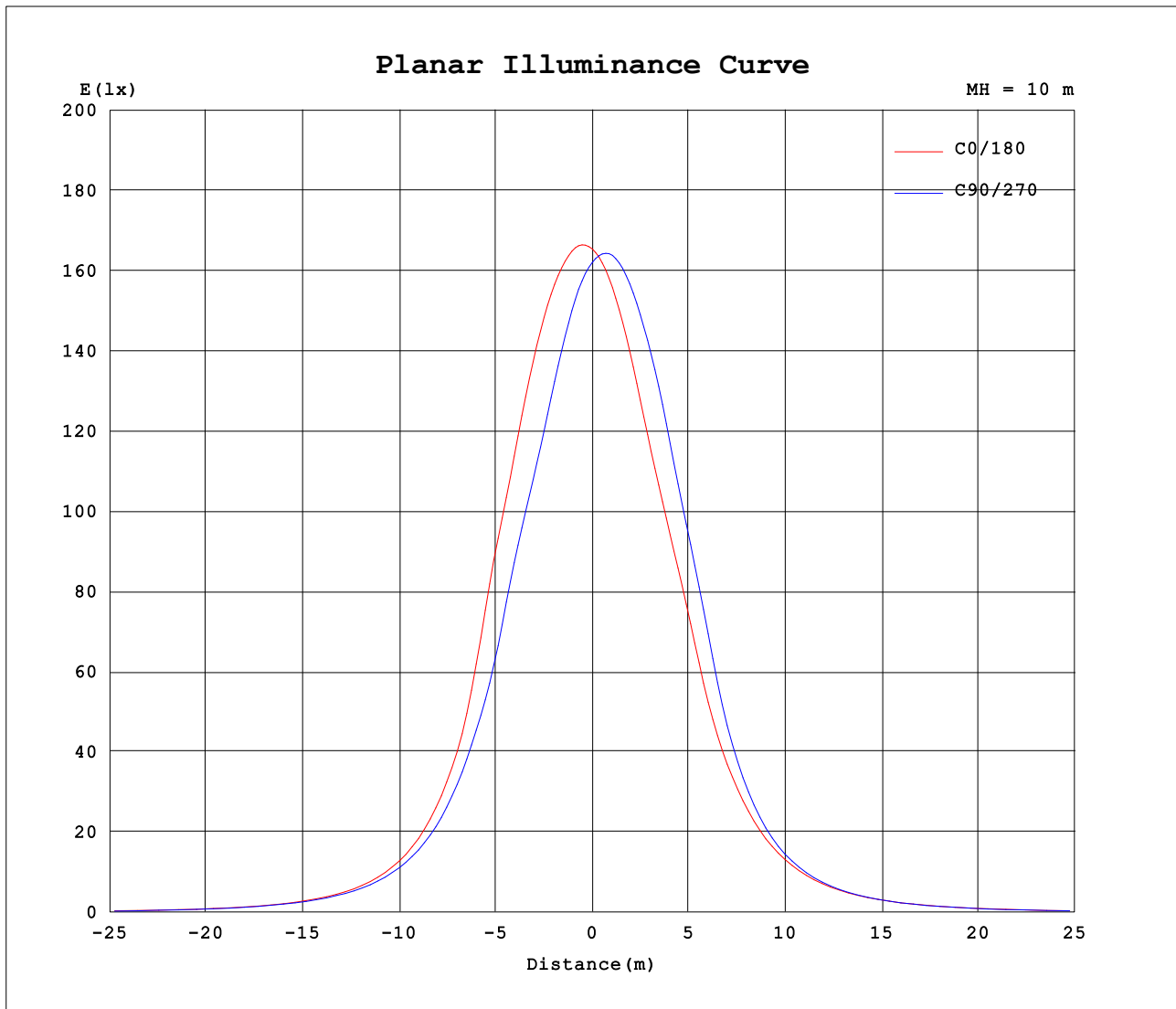
AvgL	cd/m2
L_0~180 (65) av	21917
L_0~180 (75) av	15344
L_0~180 (85) av	8807
L_90~270 (65) av	21113
L_90~270 (75) av	14662
L_90~270 (85) av	9037
L_45 (65) av	21479
L_45 (75) av	14967
L_45 (85) av	8972

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:218.77V I:0.7161A P:150.32W PF:0.9595 Freq:58.98Hz Lamp Flux:21992.9x1 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	1654	1621	1654	1621															
5	1676	1547	1599	1661															
10	1663	1427	1504	1662															
15	1609	1287	1371	1620															
20	1493	1155	1234	1527															
25	1321	965	1095	1368															
30	1055	756	880	1163															
35	730	581	673	848															
40	518	429	506	595															
45	362	315	372	410															
50	254	230	270	285															
55	180	169	196	199															
60	126	120	141	140															
65	88.3	83.1	97.0	95.3															
70	59.4	55.5	65.9	65.4															
75	37.7	34.4	41.8	41.5															
80	19.7	17.0	23.4	23.9															
85	7.38	6.49	7.97	9.26															
90	6.18	5.84	4.11	3.96															
95	5.66	5.43	4.33	4.20															
100	5.35	5.22	4.64	4.49															
105	5.27	5.25	5.05	4.85															
110	5.40	5.53	5.61	5.29															
115	5.74	6.07	6.28	5.83															
120	6.30	6.87	7.04	6.46															
125	7.05	7.84	7.89	7.20															
130	7.93	8.91	8.84	8.04															
135	8.92	10.0	9.86	8.96															
140	10.0	11.2	10.9	9.97															
145	11.2	12.3	12.0	11.0															
150	12.3	13.4	13.1	12.1															
155	13.5	14.4	14.0	13.1															
160	14.6	15.3	14.7	14.0															
165	15.5	16.0	15.4	14.9															
170	16.3	16.5	16.1	15.6															
175	16.8	16.9	16.7	16.3															
180	16.9	16.8	17.1	16.7															

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