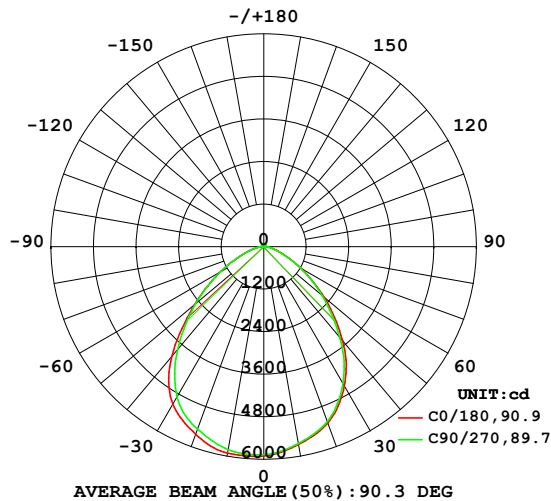


LUMINAIRE PHOTOMETRIC TEST REPORT

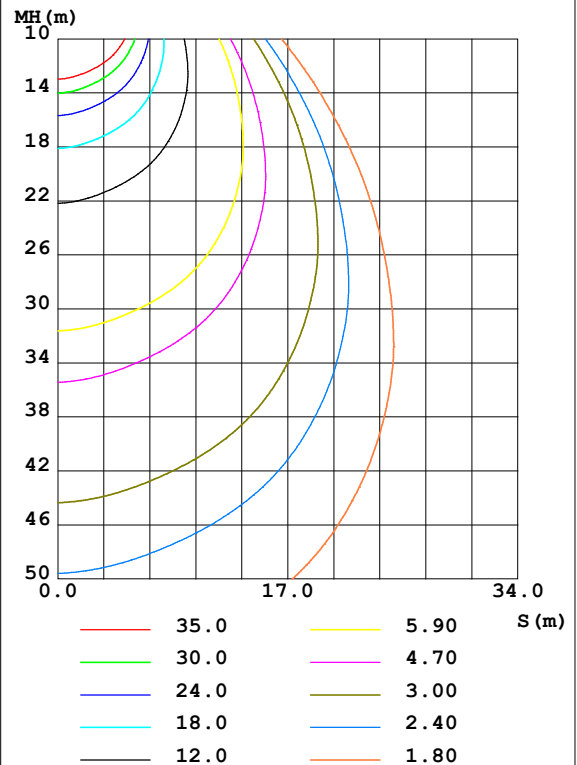
Test:U:218.52V I:0.4783A P:100.19W PF:0.9587 Freq:49.99Hz Lamp Flux:12729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 127.05 lm/W			
MODEL		I _{max} (cd)	5921	S/MH (C0/180)	1.28
NOMINAL POWER (W)	100W	LOR (%)	100.0	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	12729	η UP, DN (C0-180)	1.2, 46.1
NOMINAL FLUX (lm)	12729	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 51.6
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	97.7	CIBSE SHR MAX	1.30

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: 2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_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	5663	5635	5911	5814					0- 10	555.2	555.2	4.36, 4.36
20	5292	5246	5629	5476					10- 20	1583	2138	16.8, 16.8
30	4547	4469	5131	4891					20- 30	2360	4498	35.3, 35.3
40	3456	3334	4036	3784					30- 40	2654	7152	56.2, 56.2
50	2224	2154	2545	2510					40- 50	2303	9455	74.3, 74.3
60	1190	1173	1399	1391					50- 60	1607	11062	86.9, 86.9
70	519.3	506.4	599.0	604.7					60- 70	876.5	11939	93.8, 93.8
80	186.6	189.2	211.9	218.4					70- 80	375.6	12314	96.7, 96.7
90	49.66	49.75	47.87	50.62					80- 90	122.4	12437	97.7, 97.7
100	36.16	35.81	27.01	26.22					90-100	37.89	12475	98, 98
110	37.60	37.35	33.04	32.02					100-110	34.76	12509	98.3, 98.3
120	43.03	42.72	40.84	39.67					110-120	37.77	12547	98.6, 98.6
130	50.05	49.87	49.48	48.23					120-130	40.69	12588	98.9, 98.9
140	57.96	57.77	58.28	57.07					130-140	41.39	12629	99.2, 99.2
150	65.67	65.74	66.47	65.38					140-150	38.76	12668	99.5, 99.5
160	72.69	73.00	73.58	72.26					150-160	32.04	12700	99.8, 99.8
170	77.88	78.45	78.94	77.43					160-170	21.38	12721	99.9, 99.9
180	80.33	81.22	81.79	80.09					170-180	7.570	12729	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 8378.2 lm

%lum = 65.8%

%lamp = 65.8%

Conical surface Flux(120deg): 11062 lm

%lum = 86.9%

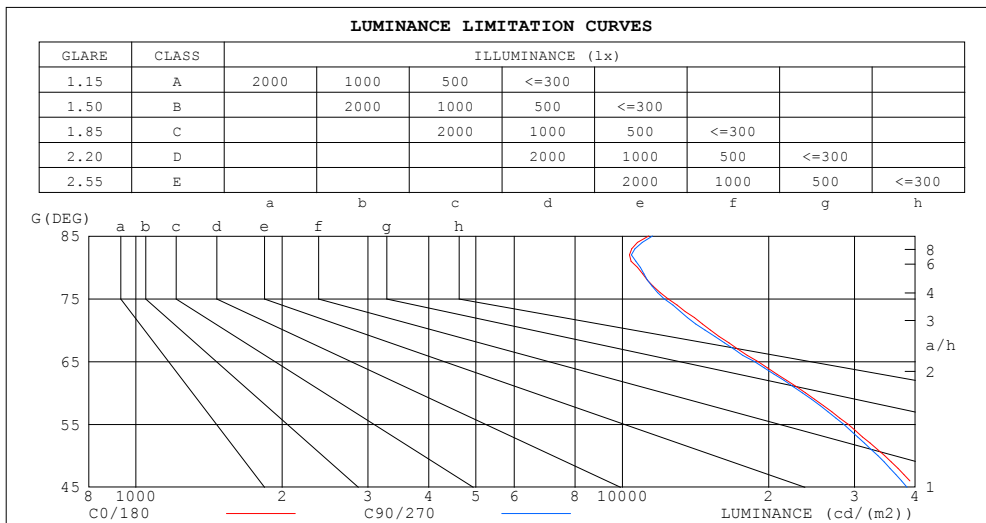
%lamp = 86.9%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.52V I:0.4783A P:100.19W PF:0.9587 Freq:49.99Hz Lamp Flux:12729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	11338	11547
80	10743	10894
75	12408	12194
70	15182	14805
65	19000	18671
60	23794	23456
55	29101	28496
50	34602	33509
45	40020	38472

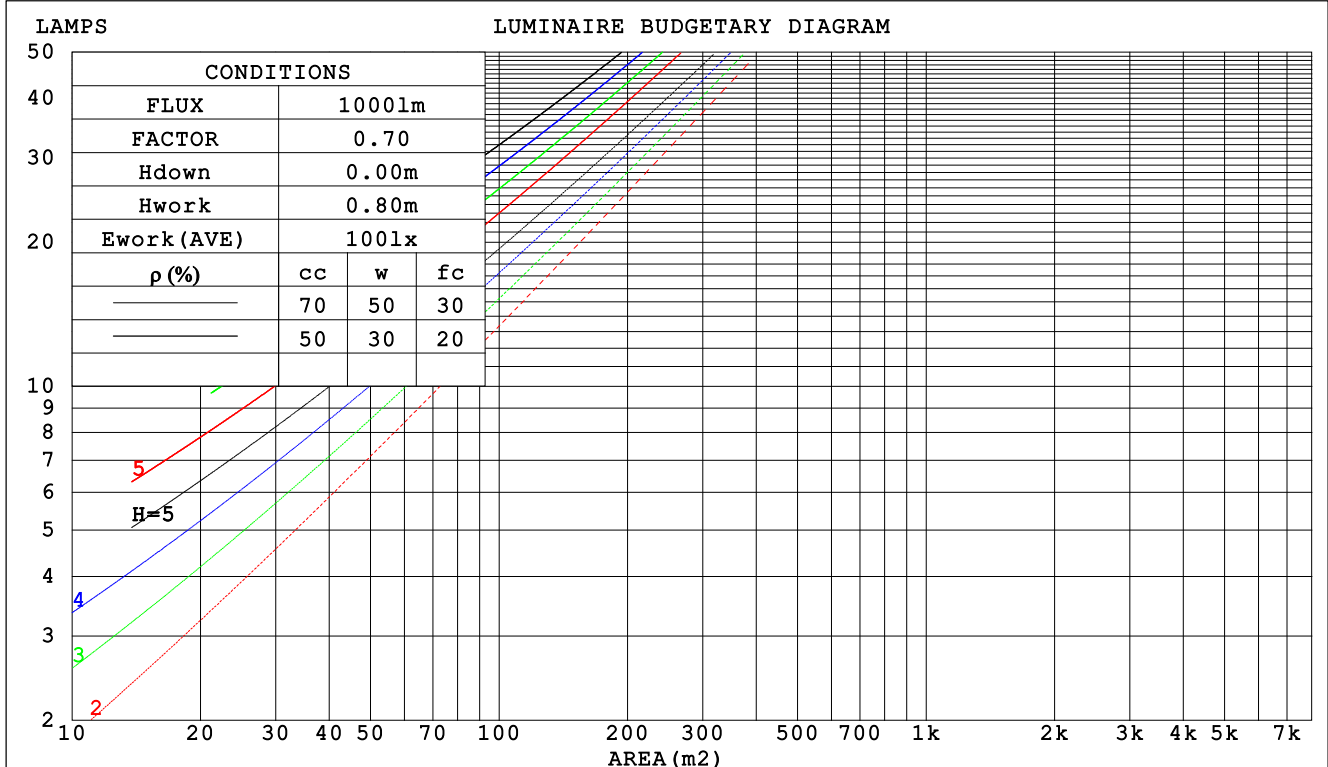
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:218.52V I:0.4783A P:100.19W PF:0.9587 Freq:49.99Hz Lamp Flux:12729x1 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	1.02	.99	1.03	1.00	.97	.99	.96	.94	.95	.93	.91	.91	.89	.88	.85
2.0	.94	.89	.84	.92	.87	.82	.89	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.84	.77	.72	.83	.76	.71	.79	.74	.69	.77	.72	.68	.74	.70	.66	.64
4.0	.76	.68	.62	.74	.67	.62	.72	.65	.60	.69	.64	.59	.67	.62	.58	.56
5.0	.69	.60	.54	.67	.60	.54	.65	.58	.53	.63	.57	.53	.61	.56	.52	.50
6.0	.62	.54	.48	.61	.54	.48	.59	.52	.47	.57	.51	.47	.56	.50	.46	.44
7.0	.57	.49	.43	.56	.48	.43	.54	.47	.43	.53	.47	.42	.51	.46	.42	.40
8.0	.52	.44	.39	.51	.44	.39	.50	.43	.38	.49	.43	.38	.47	.42	.38	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.38	.34	.33
10.0	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.41	.35	.31	.30



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.52V I:0.4783A P:100.19W PF:0.9587 Freq:49.99Hz Lamp Flux:12729x1 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	.259	.148	.047	.252	.144	.046	.237	.136	.044	.224	.129	.042	.212	.123	.040		
2.0	.249	.136	.042	.242	.133	.041	.229	.128	.040	.218	.122	.038	.207	.117	.037		
3.0	.234	.125	.037	.228	.122	.037	.217	.118	.036	.207	.113	.035	.198	.109	.034		
4.0	.220	.114	.034	.214	.112	.033	.205	.109	.032	.196	.105	.032	.187	.102	.031		
5.0	.206	.105	.030	.201	.103	.030	.192	.100	.030	.184	.097	.029	.177	.094	.028		
6.0	.193	.097	.028	.189	.095	.027	.181	.093	.027	.174	.090	.027	.167	.088	.026		
7.0	.182	.090	.025	.178	.089	.025	.171	.086	.025	.164	.084	.024	.158	.082	.024		
8.0	.171	.084	.023	.168	.083	.023	.161	.081	.023	.155	.079	.023	.150	.077	.022		
9.0	.161	.078	.022	.158	.077	.022	.153	.075	.021	.147	.074	.021	.142	.072	.021		
10.0	.153	.073	.020	.150	.072	.020	.145	.071	.020	.140	.069	.020	.135	.068	.020		

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	.156	.166	.150	.134	.114	.103	.093	.066	.060	.054	.021	.019	.017	
2.0	.184	.150	.121	.158	.129	.105	.108	.089	.073	.062	.052	.043	.020	.017	.014	
3.0	.175	.132	.097	.150	.114	.084	.103	.079	.059	.060	.046	.035	.019	.015	.011	
4.0	.168	.118	.081	.144	.102	.070	.099	.071	.049	.057	.042	.029	.018	.014	.010	
5.0	.160	.108	.069	.138	.093	.060	.095	.065	.042	.055	.038	.025	.018	.012	.008	
6.0	.153	.099	.060	.132	.086	.052	.091	.060	.037	.053	.035	.022	.017	.012	.007	
7.0	.147	.092	.054	.126	.080	.047	.087	.056	.033	.051	.033	.020	.016	.011	.007	
8.0	.141	.086	.049	.121	.075	.042	.084	.053	.030	.049	.031	.018	.016	.010	.006	
9.0	.135	.081	.045	.117	.071	.039	.081	.050	.028	.047	.029	.017	.015	.010	.005	
10.0	.130	.077	.042	.112	.067	.036	.078	.047	.026	.045	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:9.250m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:218.52V I:0.4783A P:100.19W PF:0.9587 Freq:49.99Hz Lamp Flux:12729x1 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	2H	23.6	24.9	23.9	25.2	25.4	23.5	24.9	23.8	25.1	25.3
	3H	24.2	25.4	24.5	25.6	25.9	24.1	25.3	24.4	25.5	25.8
	4H	24.3	25.5	24.7	25.8	26.1	24.2	25.4	24.6	25.7	26.0
	6H	24.4	25.5	24.8	25.8	26.1	24.3	25.4	24.7	25.7	26.0
	8H	24.4	25.5	24.8	25.8	26.1	24.4	25.4	24.7	25.7	26.0
	12H	24.5	25.5	24.8	25.8	26.1	24.4	25.4	24.8	25.7	26.0
4H	2H	23.8	25.0	24.2	25.3	25.6	23.8	24.9	24.1	25.2	25.5
	3H	24.5	25.5	24.9	25.8	26.2	24.4	25.4	24.8	25.8	26.1
	4H	24.8	25.7	25.2	26.0	26.4	24.7	25.6	25.1	25.9	26.3
	6H	25.0	25.8	25.4	26.1	26.5	24.9	25.7	25.3	26.1	26.5
	8H	25.0	25.8	25.5	26.2	26.6	24.9	25.7	25.4	26.1	26.5
	12H	25.1	25.8	25.5	26.2	26.6	25.0	25.7	25.5	26.1	26.6
8H	4H	24.8	25.6	25.3	26.0	26.4	24.7	25.5	25.2	25.9	26.3
	6H	25.1	25.7	25.6	26.1	26.6	25.0	25.6	25.5	26.1	26.5
	8H	25.2	25.7	25.7	26.2	26.7	25.1	25.7	25.6	26.1	26.6
	12H	25.3	25.8	25.8	26.3	26.8	25.3	25.7	25.8	26.2	26.7
12H	4H	24.8	25.5	25.2	25.9	26.3	24.7	25.4	25.2	25.8	26.3
	6H	25.1	25.6	25.6	26.1	26.6	25.0	25.6	25.5	26.0	26.5
	8H	25.2	25.7	25.7	26.2	26.7	25.2	25.6	25.7	26.1	26.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.6					+ 0.5 / - 0.6					
1.5H	+ 0.3 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 1.0 / - 1.0					+ 0.9 / - 1.0					

CIE Pub.117, 12729 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 8.8$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.52V I:0.4783A P:100.19W PF:0.9587 Freq:49.99Hz Lamp Flux:12729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

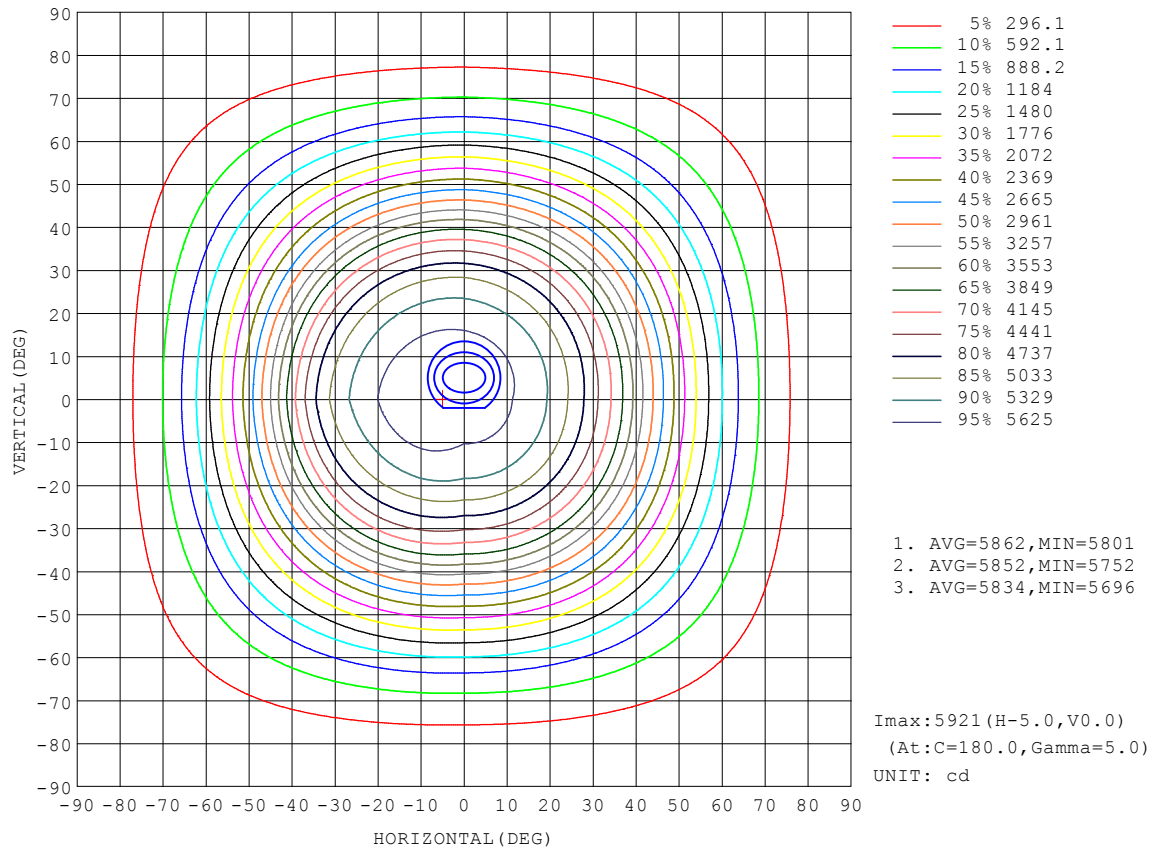
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	47	63	53	47	62	53	47	41
0.80	74	64	57	73	63	57	71	63	57	51
1.00	82	73	66	81	72	66	79	73	65	59
1.25	89	80	74	87	79	73	84	77	72	66
1.50	93	85	79	91	84	78	88	82	77	70
2.00	99	92	86	97	91	86	94	88	84	76
2.50	102	96	91	100	94	89	96	91	87	79
3.00	105	99	95	103	97	93	98	94	91	82
4.00	108	103	99	106	101	98	101	98	95	86
5.00	110	106	103	107	104	101	103	100	97	88
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:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:218.52V I:0.4783A P:100.19W PF:0.9587 Freq:49.99Hz Lamp Flux:12729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

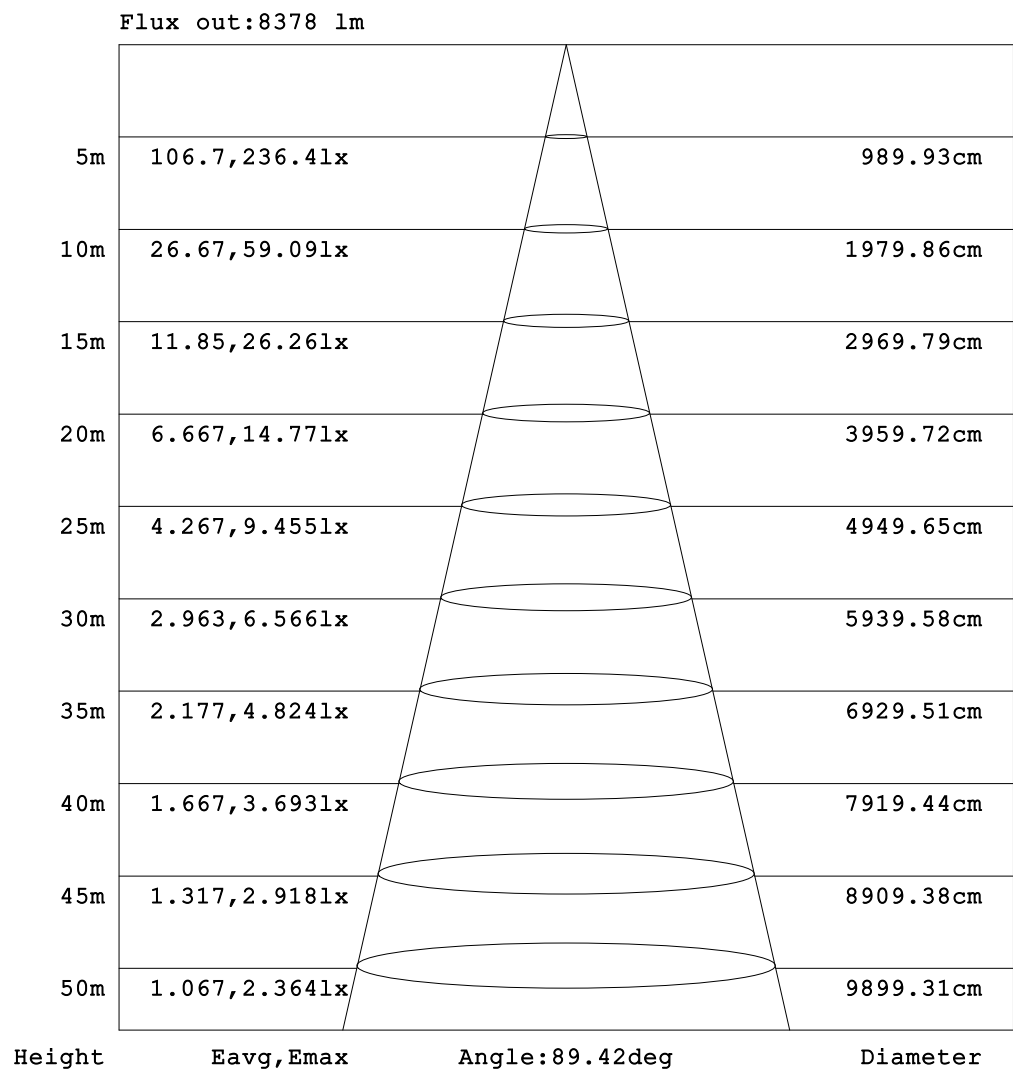


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:218.52V I:0.4783A P:100.19W PF:0.9587 Freq:49.99Hz Lamp Flux:12729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



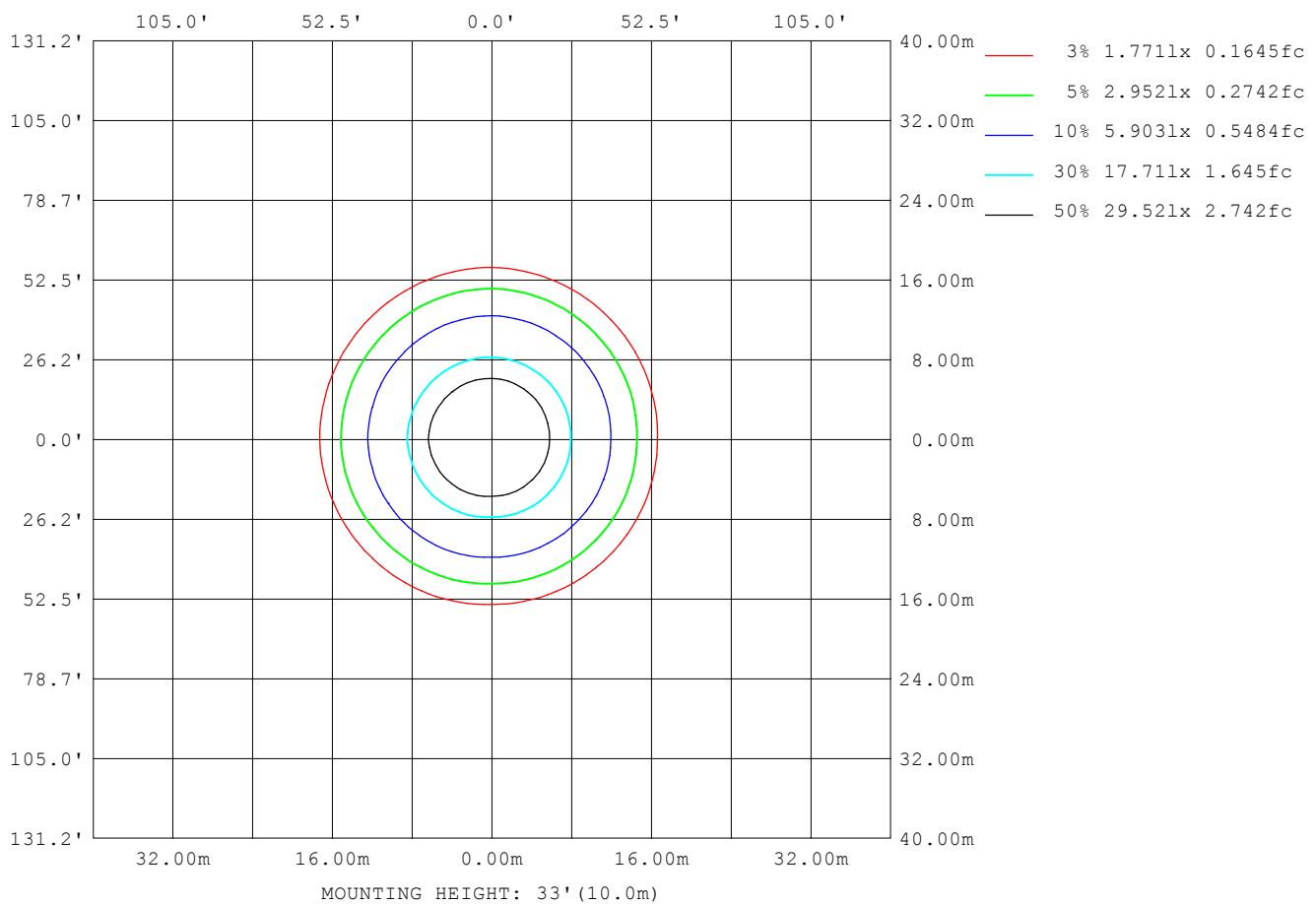
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:218.52V I:0.4783A P:100.19W PF:0.9587 Freq:49.99Hz Lamp Flux:12729x1 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: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:218.52V I:0.4783A P:100.19W PF:0.9587 Freq:49.99Hz Lamp Flux:12729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

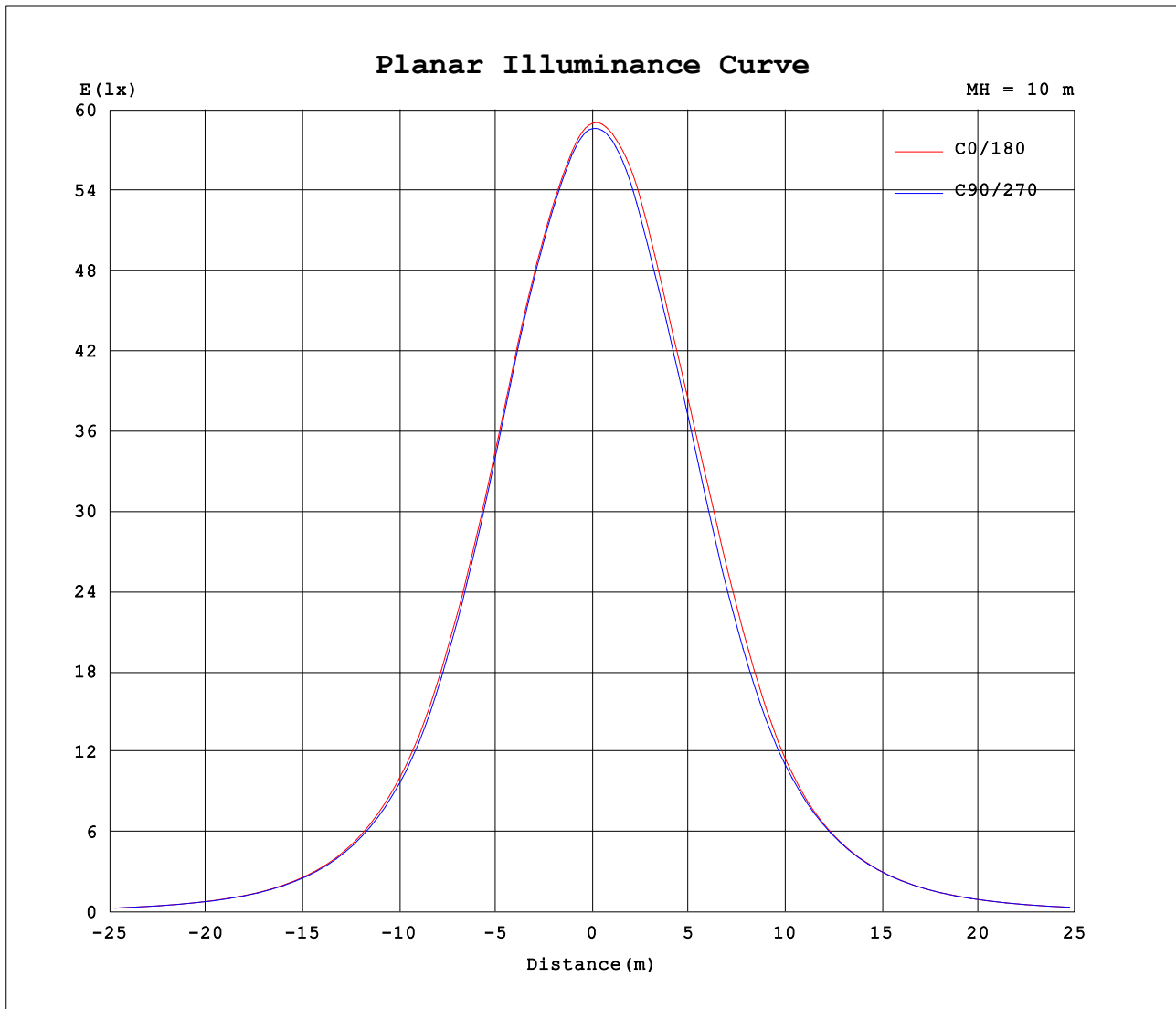
AvgL	cd/m2
L_0~180 (65) av	20664
L_0~180 (75) av	13324
L_0~180 (85) av	11997
L_90~270 (65) av	20453
L_90~270 (75) av	13358
L_90~270 (85) av	12344
L_45 (65) av	20636
L_45 (75) av	13403
L_45 (85) av	12255

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_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: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.52V I:0.4783A P:100.19W PF:0.9587 Freq:49.99Hz Lamp Flux:12729x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	5903	5864	5903	5864															
5	5814	5786	5921	5871															
10	5663	5635	5911	5814															
15	5504	5467	5820	5662															
20	5292	5246	5629	5476															
25	4966	4908	5415	5250															
30	4547	4469	5131	4891															
35	4059	3956	4676	4386															
40	3456	3334	4036	3784															
45	2830	2720	3262	3130															
50	2224	2154	2545	2510															
55	1669	1634	1937	1926															
60	1190	1173	1399	1391															
65	803	789	944	940															
70	519	506	599	605															
75	321	316	369	376															
80	187	189	212	218															
85	98.8	101	110	115															
90	49.7	49.8	47.9	50.6															
95	37.4	36.9	26.8	26.7															
100	36.2	35.8	27.0	26.2															
105	36.3	36.0	29.8	28.9															
110	37.6	37.3	33.0	32.0															
115	39.9	39.6	36.8	35.7															
120	43.0	42.7	40.8	39.7															
125	46.4	46.2	45.1	43.9															
130	50.1	49.9	49.5	48.2															
135	53.9	53.7	53.9	52.6															
140	58.0	57.8	58.3	57.1															
145	61.9	61.8	62.5	61.3															
150	65.7	65.7	66.5	65.4															
155	69.3	69.5	70.2	69.0															
160	72.7	73.0	73.6	72.3															
165	75.6	76.1	76.5	75.1															
170	77.9	78.5	78.9	77.4															
175	79.5	80.3	80.6	79.0															
180	80.3	81.2	81.8	80.1															

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