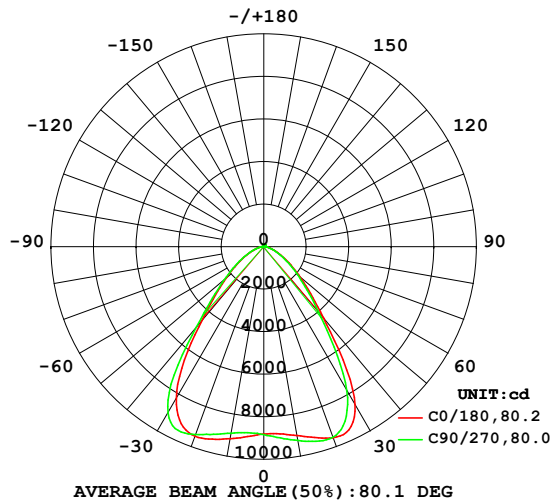


LUMINAIRE PHOTOMETRIC TEST REPORT

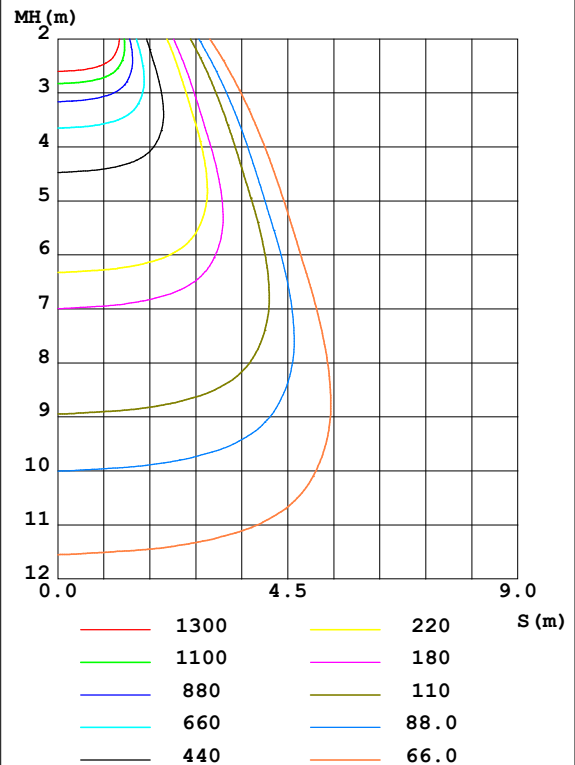
Test:U:218.54V I:0.4770A P:100.86W PF:0.9675 Freq:49.99Hz Lamp Flux:17421.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 172.73 lm/W			
MODEL		I _{max} (cd)	9599	S/MH (C0/180)	1.16
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.19
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	17422	η UP, DN (C0-180)	1.1, 47.5
NOMINAL FLUX (lm)	17421.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 50.2
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	97.7	CIBSE SHR MAX	1.15

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: 2024-09-28

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:

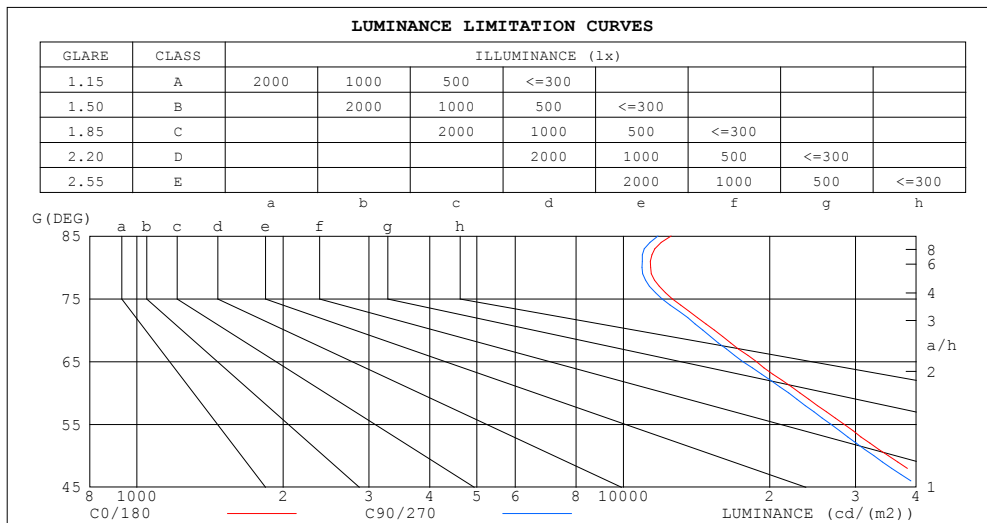
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	9023	9246	9170	8911					0- 10	855.8	855.8	4.91,4.91
20	9556	9528	9483	9397					10- 20	2645	3501	20.1,20.1
30	8591	7809	8234	9015					20- 30	4239	7740	44.4,44.4
40	4366	4021	4503	4922					30- 40	4025	11765	67.5,67.5
50	2253	2103	2322	2436					40- 50	2474	14239	81.7,81.7
60	1154	1093	1205	1245					50- 60	1492	15732	90.3,90.3
70	526.0	498.4	543.5	561.6					60- 70	811.3	16543	95,95
80	197.7	189.7	197.0	202.4					70- 80	362.5	16906	97,97
90	50.74	49.31	40.43	41.68					80- 90	121.3	17027	97.7,97.7
100	44.48	43.92	37.52	36.63					90-100	44.35	17071	98,98
110	45.27	45.74	45.94	44.70					100-110	45.06	17116	98.2,98.2
120	53.62	55.44	56.82	55.08					110-120	49.59	17166	98.5,98.5
130	65.40	67.43	69.39	67.37					120-130	54.78	17221	98.8,98.8
140	77.92	79.87	84.38	82.05					130-140	57.24	17278	99.2,99.2
150	90.64	92.49	98.36	96.42					140-150	55.06	17333	99.5,99.5
160	103.2	104.9	107.3	105.6					150-160	46.12	17379	99.8,99.8
170	115.4	116.6	117.2	115.4					160-170	31.25	17410	99.9,99.9
180	121.5	121.2	121.7	121.0					170-180	11.32	17422	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-28

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:218.54V I:0.4770A P:100.86W PF:0.9675 Freq:49.99Hz Lamp Flux:17421.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	12535	11791
80	11386	10925
75	12607	11996
70	15379	14572
65	18777	17594
60	23071	21869
55	28439	26708
50	35056	32719
45	44043	40843

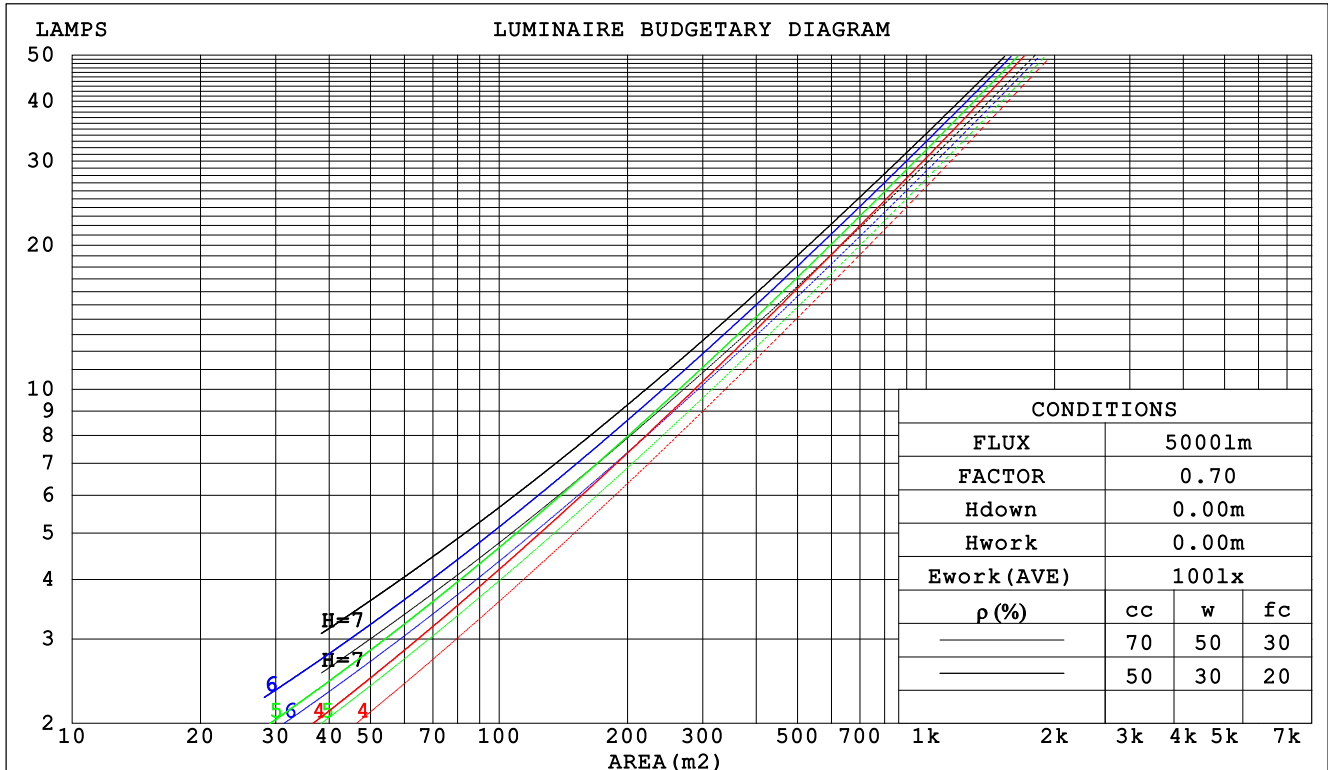
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-28

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:218.54V I:0.4770A P:100.86W PF:0.9675 Freq:49.99Hz Lamp Flux:17421.7x1 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	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	1.07	1.04	1.01	1.05	1.02	.99	1.00	.98	.96	.96	.94	.92	.92	.91	.89	.87
2.0	.97	.91	.87	.95	.90	.86	.91	.87	.83	.87	.84	.81	.84	.82	.79	.77
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.73	.80	.76	.72	.77	.74	.71	.69
4.0	.80	.72	.67	.78	.71	.66	.76	.70	.65	.73	.68	.64	.71	.67	.63	.61
5.0	.73	.65	.60	.71	.64	.59	.69	.63	.58	.67	.62	.58	.65	.61	.57	.55
6.0	.67	.59	.54	.66	.58	.53	.64	.57	.53	.62	.56	.52	.60	.55	.52	.50
7.0	.61	.54	.48	.60	.53	.48	.59	.52	.48	.57	.52	.47	.56	.51	.47	.45
8.0	.57	.49	.44	.56	.49	.44	.54	.48	.44	.53	.47	.43	.52	.47	.43	.41
9.0	.52	.45	.40	.52	.45	.40	.51	.44	.40	.49	.44	.40	.48	.43	.39	.38
10.0	.49	.42	.37	.48	.42	.37	.47	.41	.37	.46	.41	.37	.45	.40	.36	.35



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-28

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:

WEC AND CCEC

Test:U:218.54V I:0.4770A P:100.86W PF:0.9675 Freq:49.99Hz Lamp Flux:17421.7x1 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	.236	.134	.043	.229	.131	.041	.215	.123	.039	.202	.116	.037	.190	.110	.035	
2.0	.227	.124	.038	.220	.121	.037	.208	.116	.036	.196	.110	.034	.186	.105	.033	
3.0	.214	.114	.034	.209	.112	.034	.198	.107	.033	.188	.103	.032	.178	.099	.031	
4.0	.202	.105	.031	.197	.103	.030	.187	.099	.030	.178	.096	.029	.170	.092	.028	
5.0	.190	.097	.028	.186	.095	.028	.177	.092	.027	.169	.089	.027	.162	.087	.026	
6.0	.179	.090	.026	.175	.089	.025	.168	.086	.025	.161	.084	.025	.154	.081	.024	
7.0	.169	.084	.024	.166	.083	.024	.159	.080	.023	.153	.078	.023	.147	.076	.022	
8.0	.160	.078	.022	.157	.077	.022	.151	.075	.022	.145	.074	.021	.140	.072	.021	
9.0	.152	.074	.021	.149	.073	.020	.144	.071	.020	.138	.069	.020	.133	.068	.020	
10.0	.144	.069	.019	.142	.069	.019	.137	.067	.019	.132	.066	.019	.127	.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	.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	.106	.089	.074	.061	.052	.044	.020	.017	.014	
3.0	.171	.132	.100	.147	.113	.087	.101	.079	.061	.058	.046	.036	.019	.015	.012	
4.0	.163	.118	.083	.140	.102	.072	.096	.071	.051	.056	.041	.030	.018	.014	.010	
5.0	.155	.107	.071	.133	.092	.062	.092	.065	.044	.053	.038	.026	.017	.012	.009	
6.0	.148	.098	.062	.128	.085	.054	.088	.059	.038	.051	.035	.023	.016	.011	.007	
7.0	.142	.091	.055	.122	.079	.048	.085	.055	.034	.049	.033	.020	.016	.011	.007	
8.0	.136	.085	.050	.117	.074	.043	.081	.052	.031	.047	.031	.018	.015	.010	.006	
9.0	.131	.080	.046	.113	.070	.040	.078	.049	.028	.046	.029	.017	.015	.009	.006	
10.0	.126	.076	.042	.109	.066	.037	.075	.046	.026	.044	.027	.016	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-09-28

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:218.54V I:0.4770A P:100.86W PF:0.9675 Freq:49.99Hz Lamp Flux:17421.7x1 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	2H	23.1	24.3	23.4	24.6	24.8	22.8	24.0	23.1	24.3	24.5
	3H	23.6	24.7	23.9	24.9	25.2	23.3	24.4	23.6	24.6	24.9
	4H	23.7	24.8	24.0	25.0	25.3	23.4	24.5	23.7	24.7	25.0
	6H	23.8	24.8	24.1	25.1	25.4	23.5	24.5	23.9	24.8	25.1
	8H	23.8	24.8	24.2	25.1	25.4	23.5	24.5	23.9	24.8	25.1
	12H	23.9	24.8	24.2	25.1	25.4	23.6	24.5	23.9	24.8	25.1
4H	2H	23.2	24.3	23.6	24.6	24.9	23.0	24.0	23.3	24.3	24.6
	3H	23.8	24.8	24.2	25.1	25.4	23.6	24.5	23.9	24.8	25.2
	4H	24.1	24.9	24.5	25.2	25.6	23.8	24.6	24.2	25.0	25.4
	6H	24.2	25.0	24.7	25.3	25.8	24.0	24.7	24.4	25.1	25.5
	8H	24.3	25.0	24.8	25.4	25.8	24.1	24.7	24.5	25.1	25.6
	12H	24.4	25.0	24.8	25.4	25.9	24.1	24.7	24.6	25.2	25.6
8H	4H	24.1	24.8	24.5	25.2	25.6	23.8	24.5	24.3	24.9	25.3
	6H	24.4	24.9	24.8	25.3	25.8	24.1	24.7	24.6	25.1	25.6
	8H	24.5	25.0	25.0	25.4	25.9	24.2	24.7	24.7	25.2	25.7
	12H	24.6	25.0	25.1	25.5	26.0	24.4	24.8	24.9	25.3	25.8
12H	4H	24.1	24.7	24.5	25.1	25.5	23.8	24.4	24.3	24.9	25.3
	6H	24.4	24.8	24.8	25.3	25.8	24.1	24.6	24.6	25.1	25.6
	8H	24.5	24.9	25.0	25.4	25.9	24.3	24.7	24.8	25.2	25.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.7 / - 1.0					+ 0.7 / - 0.9					
1.5H	+ 1.1 / - 0.6					+ 0.8 / - 0.6					
2.0H	+ 1.4 / - 1.1					+ 1.3 / - 1.0					

CIE Pub.117, 17422 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 9.9$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-28

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:218.54V I:0.4770A P:100.86W PF:0.9675 Freq:49.99Hz Lamp Flux:17421.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

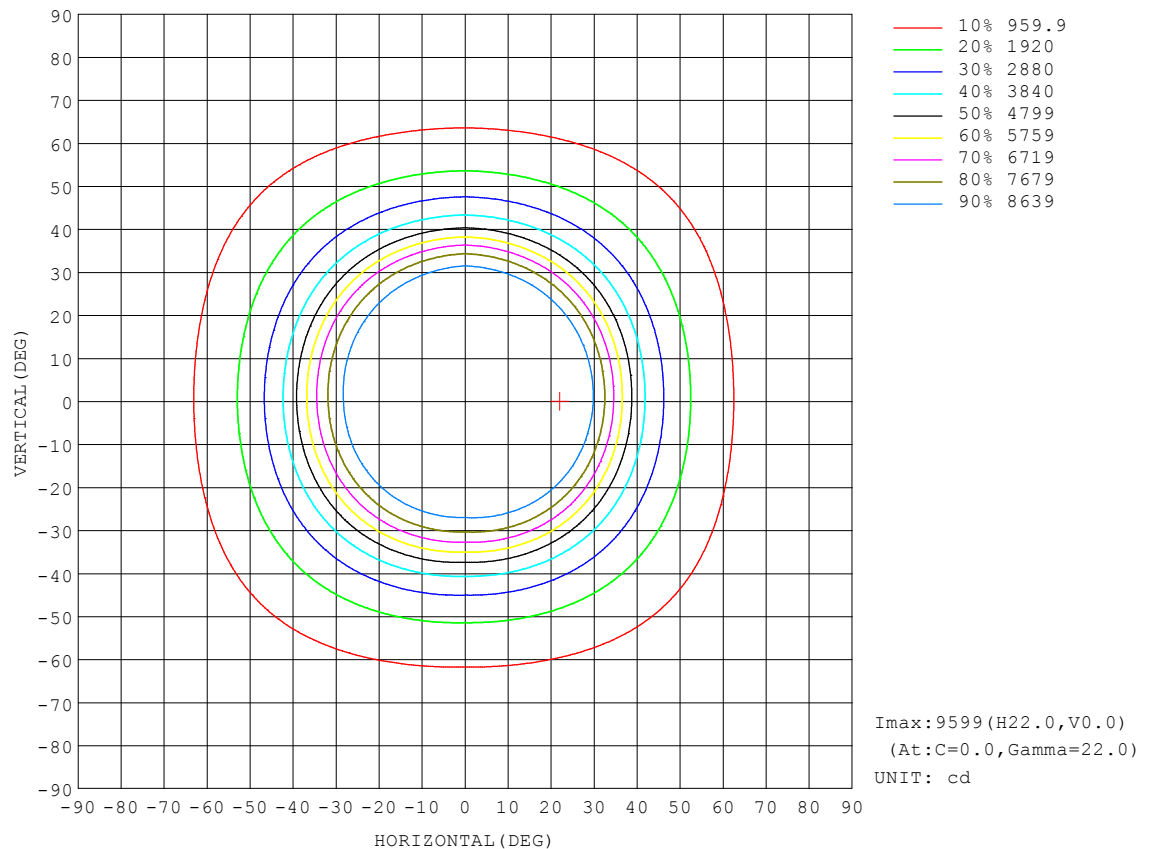
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	62	57	70	62	57	69	61	56	51
0.80	80	72	66	79	71	66	78	70	65	60
1.00	87	79	74	86	78	73	84	79	73	67
1.25	93	85	80	92	85	80	89	83	79	73
1.50	97	90	85	95	89	84	93	87	83	77
2.00	102	96	91	100	94	90	97	92	88	81
2.50	104	99	94	102	97	93	99	95	91	84
3.00	107	102	98	105	100	97	101	97	94	86
4.00	110	106	102	107	104	101	103	100	98	89
5.00	111	108	105	109	106	103	104	102	100	91
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: 2024-09-28

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:218.54V I:0.4770A P:100.86W PF:0.9675 Freq:49.99Hz Lamp Flux:17421.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

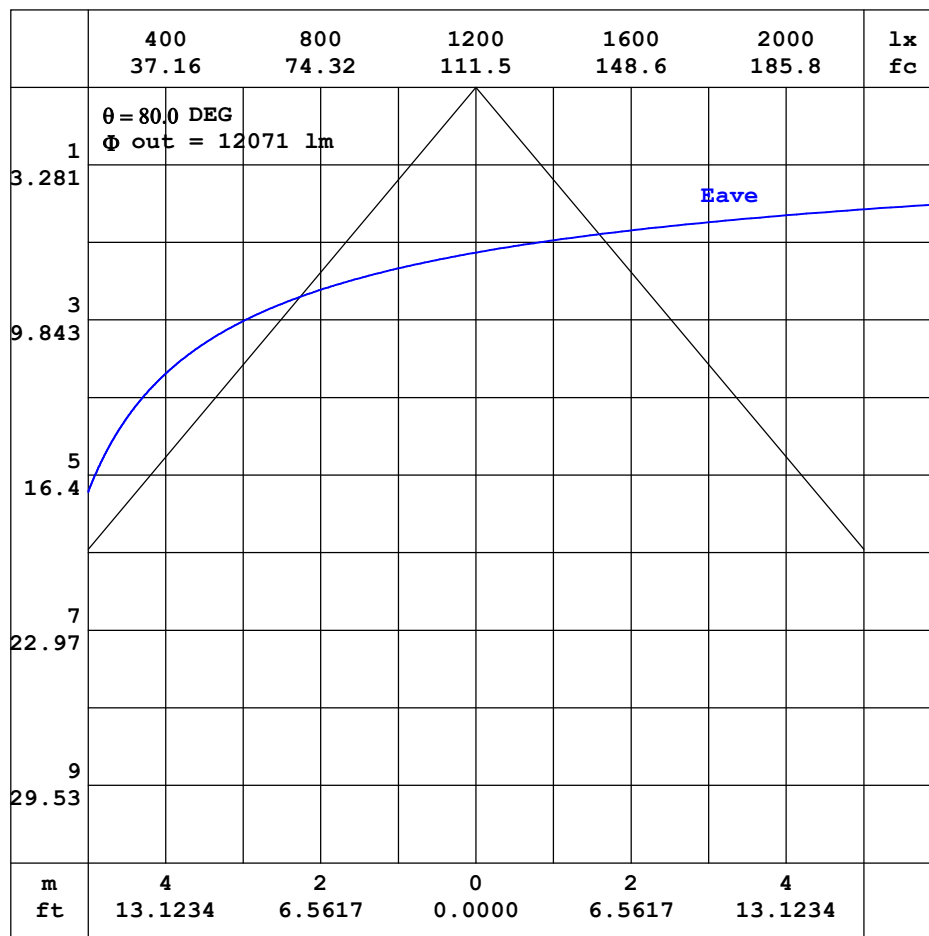


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-09-28

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 CURVES

Test:U:218.54V I:0.4770A P:100.86W PF:0.9675 Freq:49.99Hz Lamp Flux:17421.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



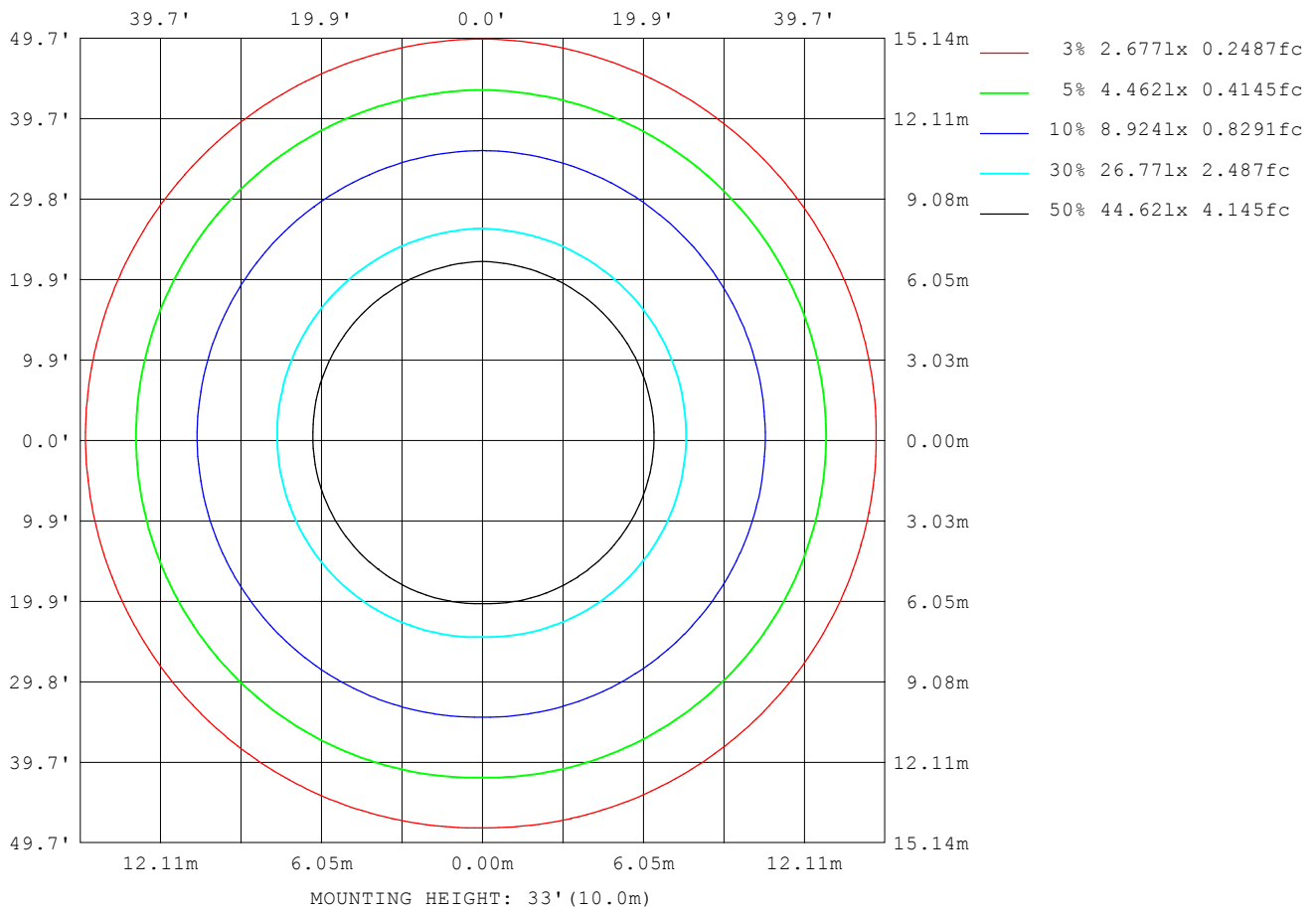
Note: The Curves indicate the illuminated area and the average illuminance when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-09-28

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:218.54V I:0.4770A P:100.86W PF:0.9675 Freq:49.99Hz Lamp Flux:17421.7x1 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: 2024-09-28

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:218.54V I:0.4770A P:100.86W PF:0.9675 Freq:49.99Hz Lamp Flux:17421.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

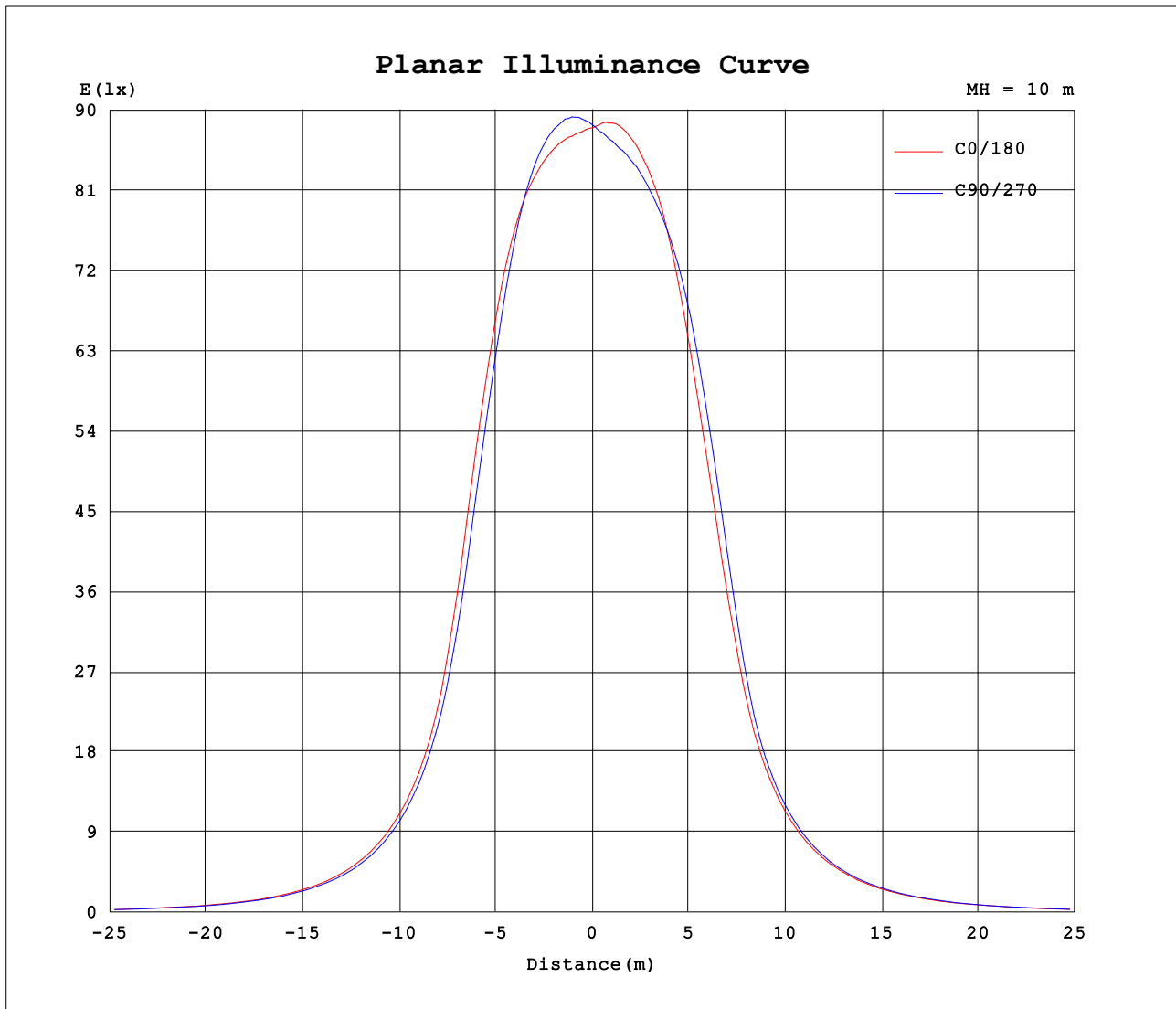
AvgL	cd/m2
L_0~180 (65) av	19205
L_0~180 (75) av	12858
L_0~180 (85) av	12451
L_90~270 (65) av	18938
L_90~270 (75) av	12856
L_90~270 (85) av	12307
L_45 (65) av	19065
L_45 (75) av	12873
L_45 (85) av	12356

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-28

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: 2024-09-28

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:218.54V I:0.4770A P:100.86W PF:0.9675 Freq:49.99Hz Lamp Flux:17421.7x1 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	8805	8839	8805	8839															
5	8832	9026	8961	8779															
10	9023	9246	9170	8911															
15	9293	9480	9370	9135															
20	9556	9528	9483	9397															
25	9498	9050	9187	9532															
30	8591	7809	8234	9015															
35	6502	5770	6513	7362															
40	4366	4021	4503	4922															
45	3114	2888	3218	3417															
50	2253	2103	2322	2436															
55	1631	1532	1679	1754															
60	1154	1093	1205	1245															
65	794	744	830	857															
70	526	498	544	562															
75	326	310	339	355															
80	198	190	197	202															
85	109	103	108	112															
90	50.7	49.3	40.4	41.7															
95	46.7	45.8	34.5	33.6															
100	44.5	43.9	37.5	36.6															
105	44.0	43.9	41.4	40.3															
110	45.3	45.7	45.9	44.7															
115	48.7	49.9	51.2	49.7															
120	53.6	55.4	56.8	55.1															
125	59.3	61.4	62.9	61.0															
130	65.4	67.4	69.4	67.4															
135	71.6	73.6	76.6	74.4															
140	77.9	79.9	84.4	82.0															
145	84.3	86.2	92.0	89.6															
150	90.6	92.5	98.4	96.4															
155	96.8	98.5	103	101															
160	103	105	107	106															
165	110	111	112	110															
170	115	117	117	115															
175	119	120	121	119															
180	121	121	122	121															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-28

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: