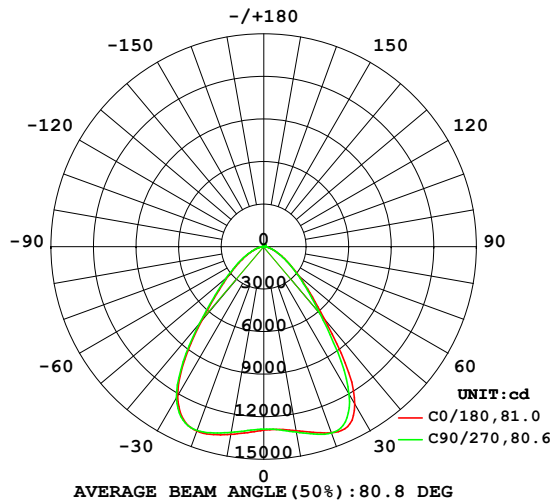


LUMINAIRE PHOTOMETRIC TEST REPORT

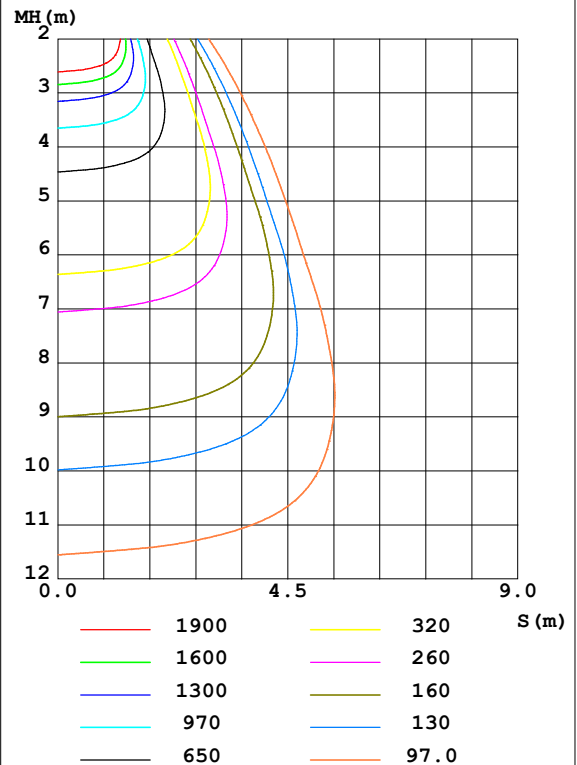
Test:U:218.38V I:0.7033A P:150.79W PF:0.9818 Freq:49.99Hz Lamp Flux:25558.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 169.50 lm/W			
MODEL		I _{max} (cd)	14082	S/MH (C0/180)	1.17
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH (C90/270)	1.18
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	25558	η UP,DN(C0-180)	1.1,48.4
NOMINAL FLUX(lm)	25558.4	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,49.3
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:

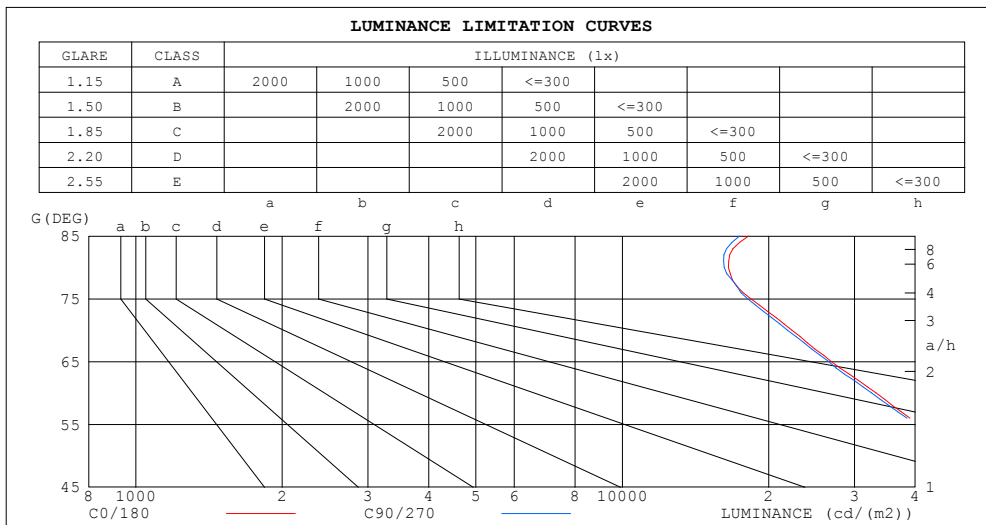
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum,lamp
10	1319	1328	1344	1330					0- 10	1252	1252	4.9,4.9
20	1396	1399	1384	1379					10- 20	3872	5124	20,20
30	1283	1203	1215	1232					20- 30	6209	11333	44.3,44.3
40	664.3	619.7	679.4	702.8					30- 40	5968	17301	67.7,67.7
50	327.3	318.0	332.8	347.7					40- 50	3651	20952	82,82
60	166.0	162.5	169.1	177.8					50- 60	2156	23109	90.4,90.4
70	76.33	74.67	76.37	79.94					60- 70	1169	24277	95,95
80	28.70	28.12	27.68	29.53					70- 80	525.1	24802	97,97
90	7.424	7.307	5.837	6.265					80- 90	176.6	24979	97.7,97.7
100	6.500	6.474	5.491	5.426					90-100	65.29	25044	98,98
110	6.629	6.674	6.759	6.612					100-110	66.18	25110	98.2,98.2
120	7.841	7.932	8.383	8.177					110-120	72.66	25183	98.5,98.5
130	9.578	9.673	10.26	9.998					120-130	80.21	25263	98.8,98.8
140	11.44	11.49	12.54	12.12					130-140	83.97	25347	99.2,99.2
150	13.31	13.32	14.66	14.18					140-150	80.83	25428	99.5,99.5
160	15.19	15.17	15.98	15.52					150-160	67.72	25496	99.8,99.8
170	16.98	16.93	17.38	16.95					160-170	45.91	25542	99.9,99.9
180	17.93	17.73	18.00	17.67					170-180	16.63	25558	100,100
DEG	LUMINOUS INTENSITY:×10cd									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:218.38V I:0.7033A P:150.79W PF:0.9818 Freq:49.99Hz Lamp Flux:25558.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	18186	17428
80	16525	16193
75	18370	18093
70	22318	21831
65	26894	26554
60	33205	32508
55	40684	40057
50	50914	49477
45	65318	62058

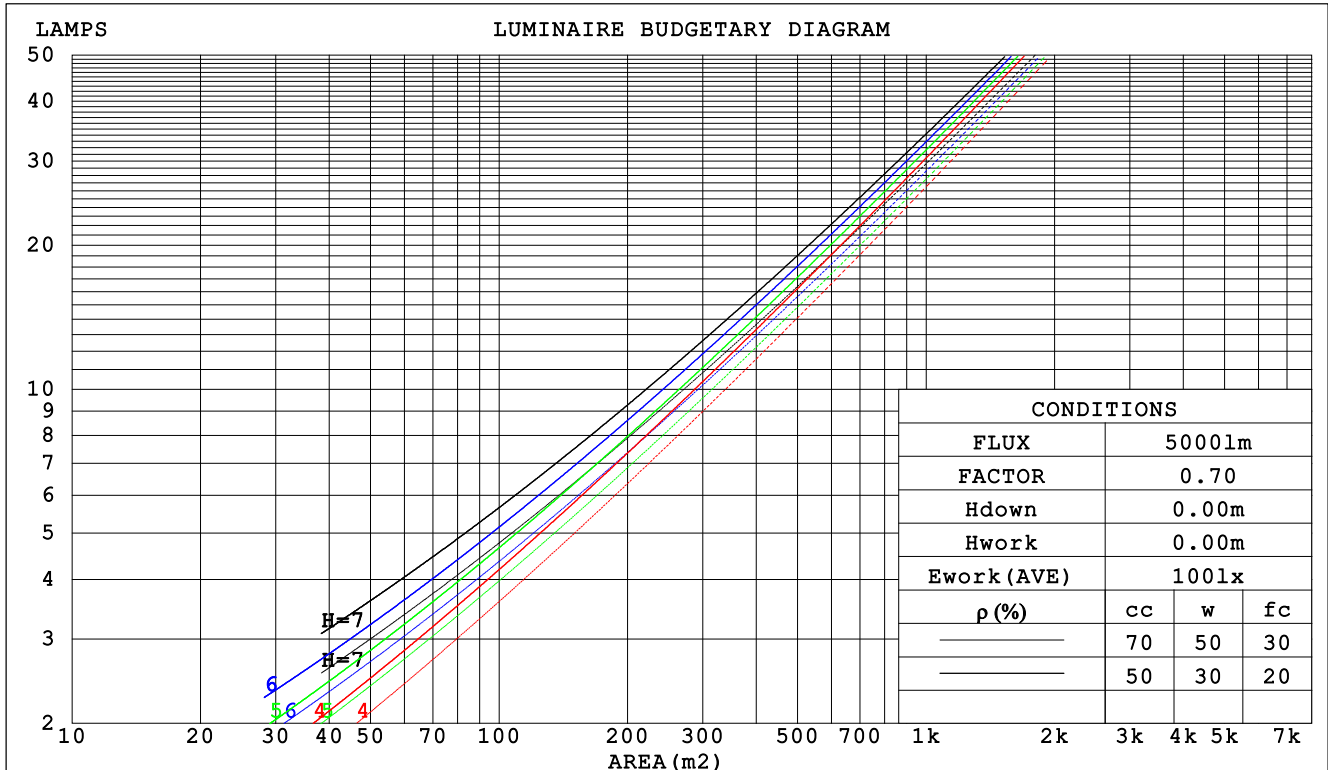
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2024-09-28

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:218.38V I:0.7033A P:150.79W PF:0.9818 Freq:49.99Hz Lamp Flux:25558.4x1 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	.88	.84	.81	.84	.82	.79	.77
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.80	.76	.72	.77	.74	.71	.69
4.0	.80	.72	.67	.78	.72	.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	.49	.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:218.38V I:0.7033A P:150.79W PF:0.9818 Freq:49.99Hz Lamp Flux:25558.4x1 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	.228	.130	.041	.214	.123	.039	.201	.116	.037	.189	.110	.035	
2.0	.226	.124	.038	.220	.121	.037	.207	.115	.036	.196	.110	.034	.186	.105	.033	
3.0	.214	.114	.034	.208	.112	.034	.197	.107	.033	.187	.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	.086	.026	
6.0	.179	.090	.026	.175	.089	.025	.168	.086	.025	.161	.083	.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	.068	.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	.084	.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:218.38V I:0.7033A P:150.79W PF:0.9818 Freq:49.99Hz Lamp Flux:25558.4x1 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	24.5	25.8	24.8	26.0	26.2	24.4	25.6	24.6	25.8	26.0
	3H	25.0	26.1	25.3	26.3	26.6	24.8	25.9	25.1	26.2	26.4
	4H	25.1	26.1	25.4	26.4	26.7	24.9	26.0	25.3	26.3	26.5
	6H	25.2	26.2	25.5	26.5	26.8	25.0	26.0	25.4	26.3	26.6
	8H	25.2	26.2	25.6	26.5	26.8	25.0	26.0	25.4	26.3	26.6
	12H	25.2	26.1	25.6	26.5	26.8	25.1	26.0	25.4	26.3	26.6
	4H	2H	24.6	25.7	25.0	26.0	26.3	24.5	25.6	24.8	25.8
	3H	25.2	26.1	25.6	26.4	26.8	25.1	26.0	25.4	26.3	26.6
	4H	25.4	26.3	25.8	26.6	27.0	25.3	26.1	25.7	26.5	26.8
	6H	25.6	26.3	26.0	26.7	27.1	25.5	26.2	25.9	26.6	27.0
	8H	25.7	26.3	26.1	26.7	27.2	25.5	26.2	26.0	26.6	27.0
	12H	25.7	26.4	26.2	26.8	27.2	25.6	26.2	26.1	26.6	27.1
8H	4H	25.5	26.1	25.9	26.5	27.0	25.3	26.0	25.8	26.4	
6H	25.7	26.3	26.2	26.7	27.2	25.6	26.2	26.1	26.6	27.1	
8H	25.8	26.3	26.3	26.8	27.3	25.7	26.2	26.2	26.7	27.2	
12H	26.0	26.4	26.5	26.9	27.4	25.9	26.3	26.4	26.8	27.3	
12H	4H	25.4	26.0	25.9	26.5	26.9	25.3	25.9	25.8	26.3	
6H	25.7	26.2	26.2	26.7	27.2	25.6	26.1	26.1	26.5	27.0	
8H	25.9	26.3	26.4	26.8	27.3	25.8	26.2	26.3	26.7	27.2	
Variations with the observer position at spacings:											
S = 1.0H		+ 0.8 / - 1.1					+ 0.7 / - 1.0				
1.5H		+ 1.2 / - 0.6					+ 0.9 / - 0.6				
2.0H		+ 1.5 / - 1.1					+ 1.4 / - 1.1				

CIE Pub.117, 25558 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 11.3)
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:218.38V I:0.7033A P:150.79W PF:0.9818 Freq:49.99Hz Lamp Flux:25558.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

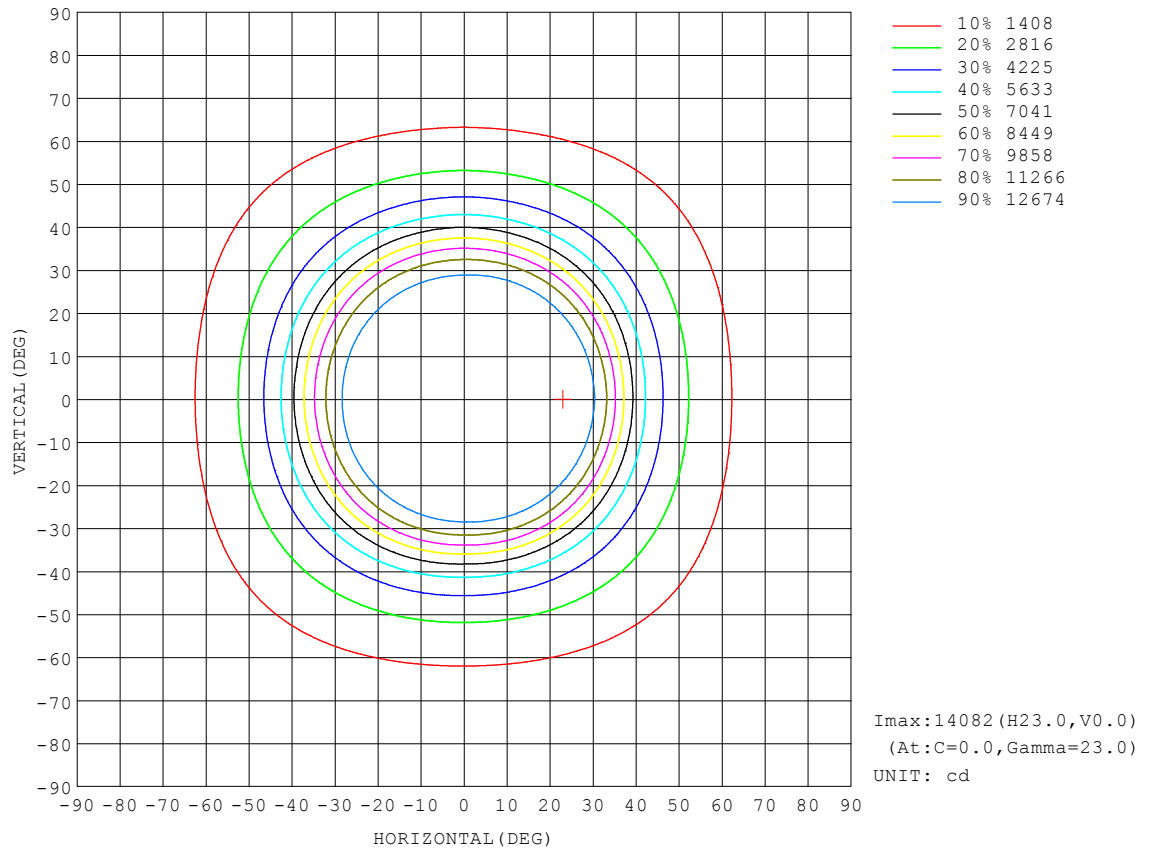
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	62	57	71	62	57	69	61	56	51
0.80	80	72	66	80	71	66	78	70	65	60
1.00	87	79	74	86	79	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	82
2.50	104	99	94	103	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:218.38V I:0.7033A P:150.79W PF:0.9818 Freq:49.99Hz Lamp Flux:25558.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

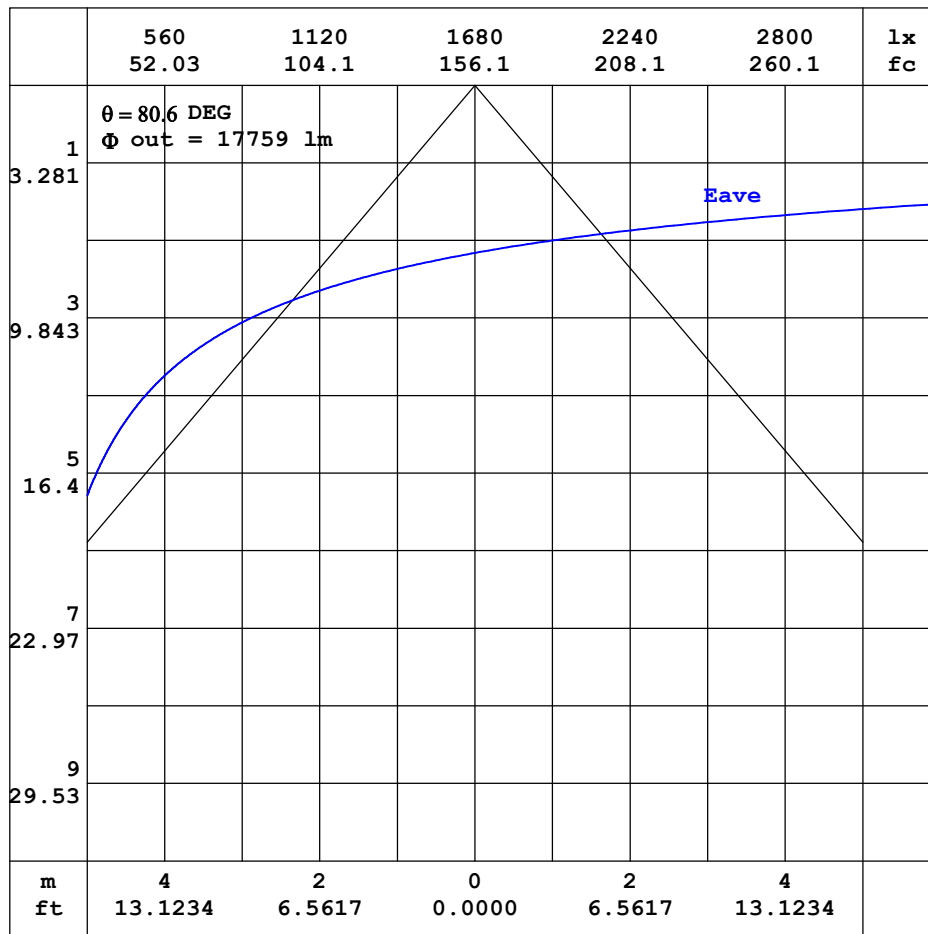


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-28

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:218.38V I:0.7033A P:150.79W PF:0.9818 Freq:49.99Hz Lamp Flux:25558.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



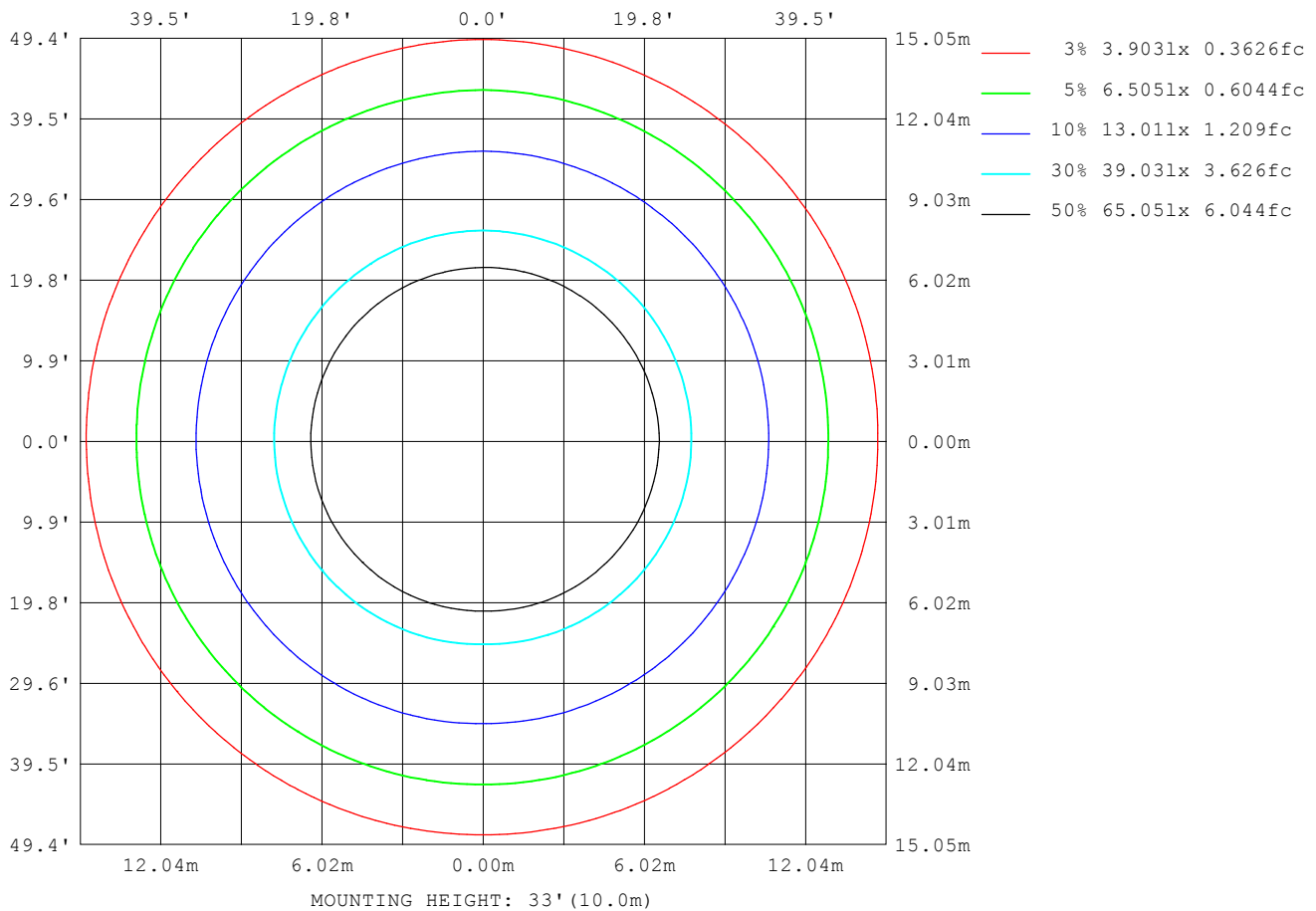
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:218.38V I:0.7033A P:150.79W PF:0.9818 Freq:49.99Hz Lamp Flux:25558.4x1 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:218.38V I:0.7033A P:150.79W PF:0.9818 Freq:49.99Hz Lamp Flux:25558.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

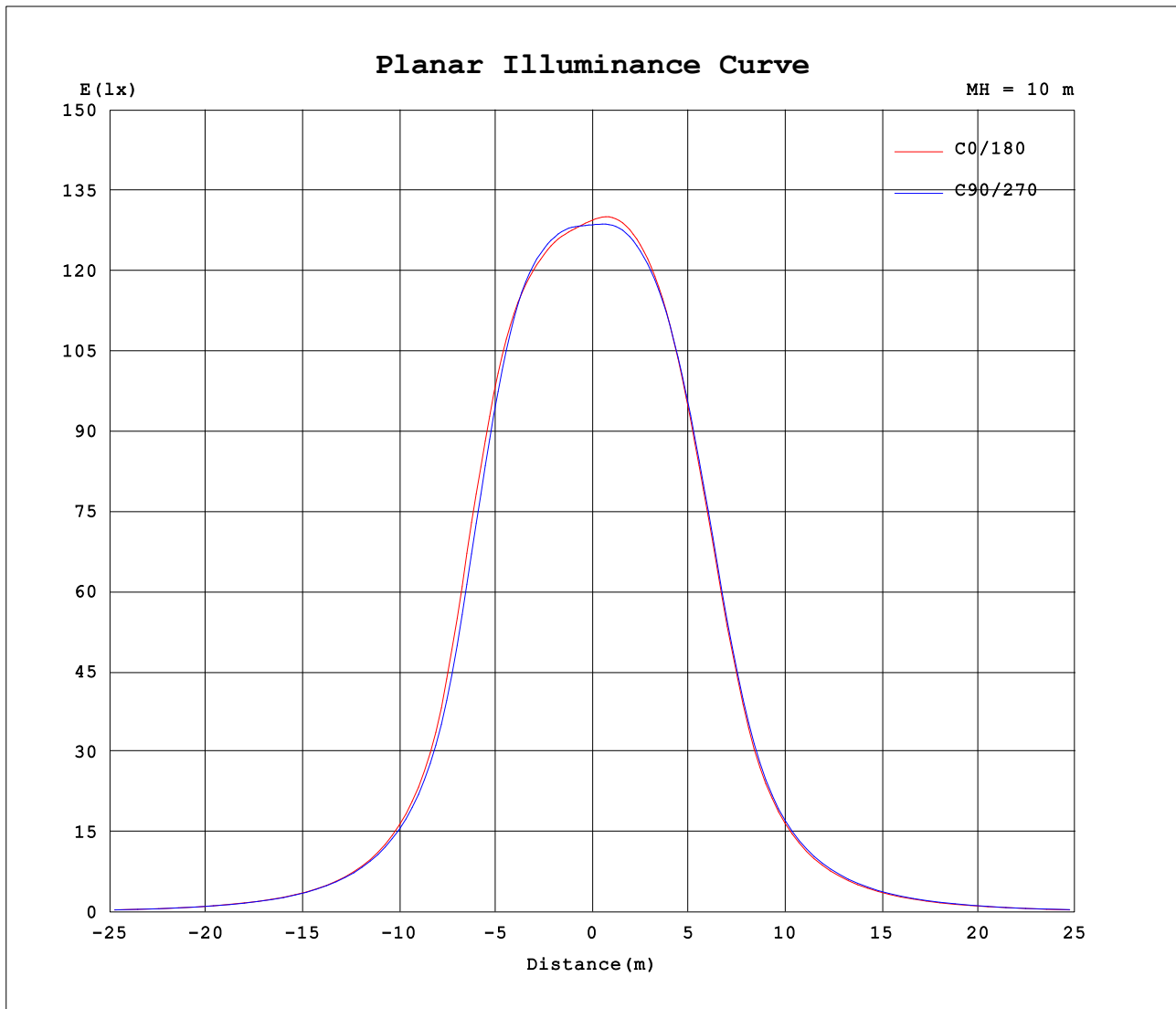
AvgL	cd/m2
L_0~180 (65) av	27210
L_0~180 (75) av	18444
L_0~180 (85) av	17935
L_90~270 (65) av	27771
L_90~270 (75) av	18855
L_90~270 (85) av	18125
L_45 (65) av	27580
L_45 (75) av	18706
L_45 (85) av	18038

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:218.38V I:0.7033A P:150.79W PF:0.9818 Freq:49.99Hz Lamp Flux:25558.4x1 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	1295	1286	1295	1286															
5	1294	1297	1316	1301															
10	1319	1328	1344	1330															
15	1355	1367	1372	1360															
20	1396	1399	1384	1379															
25	1400	1363	1343	1350															
30	1283	1203	1215	1232															
35	1000	909	973	992															
40	664	620	679	703															
45	462	439	471	487															
50	327	318	333	348															
55	233	230	238	250															
60	166	163	169	178															
65	114	112	116	123															
70	76.3	74.7	76.4	79.9															
75	47.5	46.8	47.9	50.8															
80	28.7	28.1	27.7	29.5															
85	15.9	15.2	15.4	16.4															
90	7.42	7.31	5.84	6.26															
95	6.82	6.77	5.04	5.00															
100	6.50	6.47	5.49	5.43															
105	6.43	6.44	6.07	5.97															
110	6.63	6.67	6.76	6.61															
115	7.12	7.20	7.54	7.36															
120	7.84	7.93	8.38	8.18															
125	8.67	8.78	9.29	9.05															
130	9.58	9.67	10.3	10.00															
135	10.5	10.6	11.3	11.0															
140	11.4	11.5	12.5	12.1															
145	12.4	12.4	13.7	13.2															
150	13.3	13.3	14.7	14.2															
155	14.2	14.2	15.4	14.9															
160	15.2	15.2	16.0	15.5															
165	16.1	16.1	16.7	16.2															
170	17.0	16.9	17.4	16.9															
175	17.6	17.5	17.9	17.5															
180	17.9	17.7	18.0	17.7															

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: