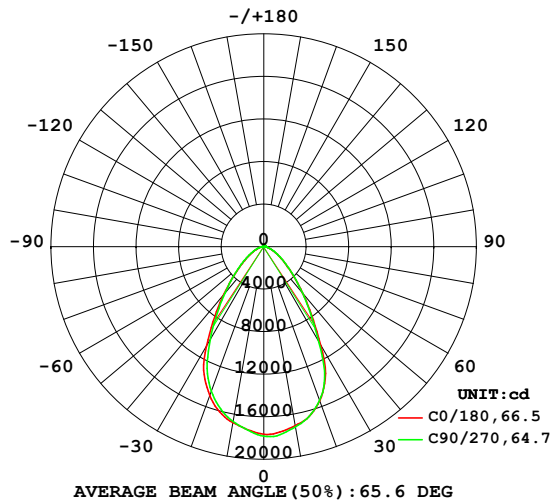


LUMINAIRE PHOTOMETRIC TEST REPORT

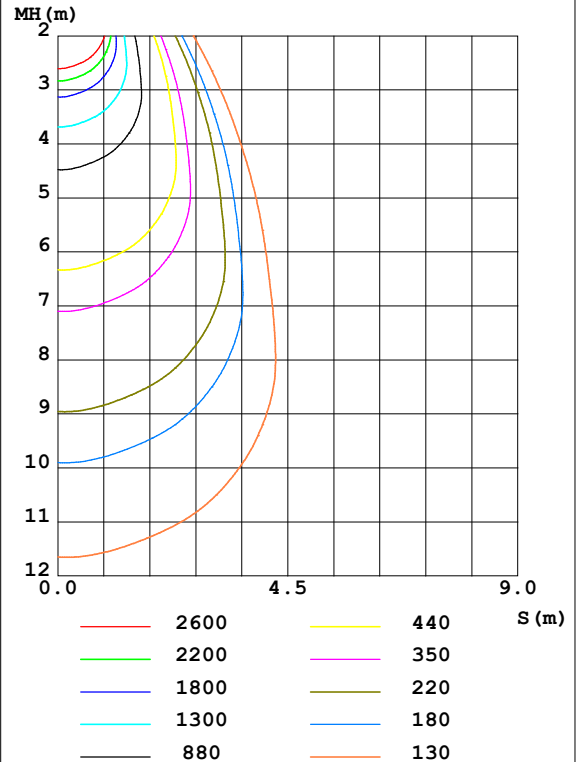
Test:U:218.38V I:0.9352A P:196.23W PF:0.9609 Freq:49.99Hz Lamp Flux:24630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.51 lm/W			
MODEL		Imax(cd)	17873	S/MH(C0/180)	0.99
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	0.97
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	24630	η UP,DN(C0-180)	1.1,49.1
NOMINAL FLUX(lm)	24630	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.2,48.6
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:2024-10-11

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:

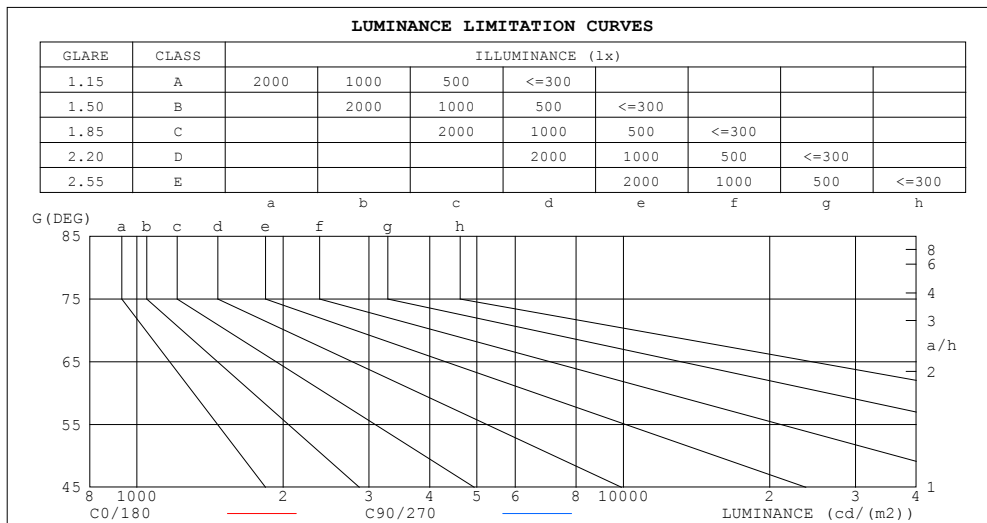
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1709	1720	1680	1670					0- 10	1650	1650	6.7,6.7
20	1541	1538	1488	1446					10- 20	4547	6197	25.2,25.2
30	1074	1039	1083	1008					20- 30	6000	12197	49.5,49.5
40	569.9	566.9	588.4	569.5					30- 40	4910	17107	69.5,69.5
50	290.3	296.0	295.7	304.7					40- 50	3225	20332	82.5,82.5
60	149.9	152.9	150.5	160.0					50- 60	1939	22270	90.4,90.4
70	71.73	73.63	71.31	76.78					60- 70	1075	23345	94.8,94.8
80	29.83	30.42	29.17	31.03					70- 80	517.3	23863	96.9,96.9
90	8.096	8.044	7.880	8.340					80- 90	197.9	24060	97.7,97.7
100	6.201	6.133	5.381	5.261					90-100	65.55	24126	98,98
110	6.294	6.198	6.409	6.230					100-110	63.01	24189	98.2,98.2
120	7.336	7.178	7.960	7.713					110-120	67.92	24257	98.5,98.5
130	9.153	8.911	9.975	9.641					120-130	75.57	24333	98.8,98.8
140	11.42	11.10	12.32	11.84					130-140	81.24	24414	99.1,99.1
150	13.86	13.48	14.80	14.16					140-150	80.57	24494	99.4,99.4
160	16.23	15.72	16.82	16.04					150-160	69.93	24564	99.7,99.7
170	18.13	17.62	18.44	17.50					160-170	48.25	24613	99.9,99.9
180	18.93	18.46	19.26	18.19					170-180	17.44	24630	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:2024-10-11

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:0.9352A P:196.23W PF:0.9609 Freq:49.99Hz Lamp Flux:24630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	57386	58359
80	49076	50056
75	51542	52727
70	59918	61512
65	70141	71894
60	85654	87384
55	103962	106435
50	129035	131577
45	164414	166372

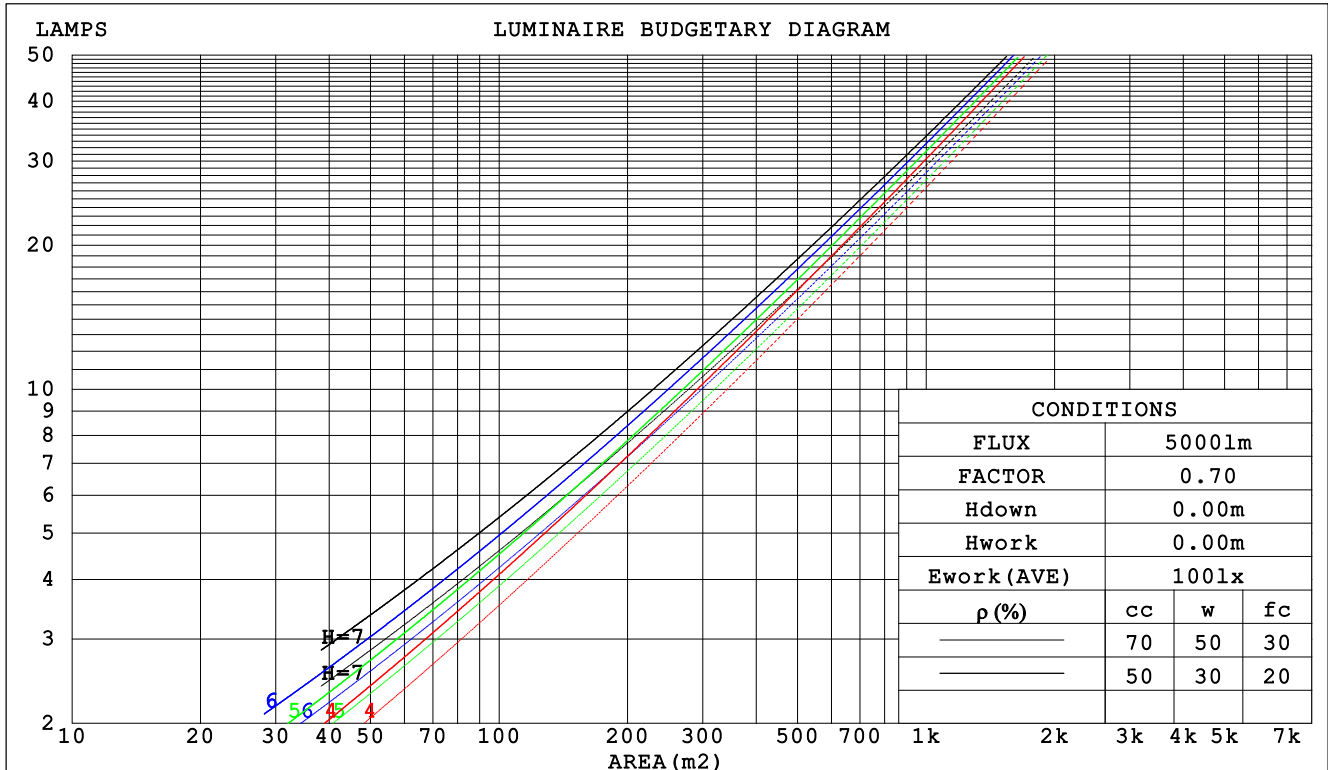
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-11

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:0.9352A P:196.23W PF:0.9609 Freq:49.99Hz Lamp Flux:24630x1 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	1.18	1.18	1.18	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	.93	.92	.91	.90	.87
2.0	.97	.92	.88	.95	.91	.87	.92	.88	.84	.88	.85	.82	.85	.82	.80	.78
3.0	.89	.82	.77	.87	.81	.76	.84	.79	.75	.81	.77	.73	.78	.75	.72	.70
4.0	.81	.74	.69	.80	.73	.68	.77	.71	.67	.75	.70	.66	.72	.68	.65	.63
5.0	.74	.67	.62	.73	.66	.61	.71	.65	.61	.69	.64	.60	.67	.63	.59	.57
6.0	.68	.61	.56	.67	.61	.56	.66	.60	.55	.64	.59	.54	.62	.58	.54	.52
7.0	.63	.56	.51	.63	.56	.51	.61	.55	.50	.59	.54	.50	.58	.53	.49	.48
8.0	.59	.52	.47	.58	.51	.47	.57	.51	.46	.55	.50	.46	.54	.49	.46	.44
9.0	.55	.48	.43	.54	.48	.43	.53	.47	.43	.52	.46	.43	.51	.46	.42	.41
10.0	.51	.45	.40	.51	.44	.40	.50	.44	.40	.49	.43	.39	.48	.43	.39	.38



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-11

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:0.9352A P:196.23W PF:0.9609 Freq:49.99Hz Lamp Flux:24630x1 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	.231	.131	.042	.224	.128	.041	.209	.120	.038	.196	.113	.036	.184	.107	.034		
2.0	.220	.121	.037	.214	.118	.036	.201	.112	.035	.190	.107	.033	.180	.102	.032		
3.0	.208	.110	.033	.202	.108	.033	.191	.104	.031	.181	.099	.030	.172	.095	.029		
4.0	.195	.101	.030	.190	.100	.029	.181	.096	.029	.172	.092	.028	.164	.089	.027		
5.0	.184	.094	.027	.179	.092	.027	.171	.089	.026	.163	.086	.026	.156	.083	.025		
6.0	.173	.087	.025	.169	.085	.025	.162	.083	.024	.155	.080	.024	.148	.078	.023		
7.0	.164	.081	.023	.160	.080	.023	.153	.078	.022	.147	.075	.022	.141	.073	.022		
8.0	.155	.076	.021	.152	.075	.021	.146	.073	.021	.140	.071	.020	.135	.069	.020		
9.0	.147	.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	.193	.175	.158	.165	.150	.136	.113	.103	.094	.065	.060	.055	.021	.019	.018	
2.0	.181	.150	.125	.155	.129	.108	.106	.089	.075	.061	.052	.044	.020	.017	.014	
3.0	.170	.132	.101	.146	.114	.088	.100	.079	.061	.058	.046	.036	.019	.015	.012	
4.0	.162	.118	.084	.139	.102	.073	.095	.071	.052	.055	.042	.031	.018	.014	.010	
5.0	.154	.107	.072	.132	.092	.063	.091	.065	.044	.053	.038	.026	.017	.012	.009	
6.0	.147	.098	.063	.126	.085	.055	.087	.059	.039	.050	.035	.023	.016	.011	.008	
7.0	.140	.091	.056	.121	.079	.049	.083	.055	.035	.048	.033	.021	.016	.011	.007	
8.0	.134	.085	.051	.116	.074	.044	.080	.052	.031	.047	.031	.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: 2024-10-11

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:0.9352A P:196.23W PF:0.9609 Freq:49.99Hz Lamp Flux:24630x1 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	27.4	28.6	27.7	28.8	29.0	27.4	28.6	27.7	28.8	29.1
	3H	27.9	29.0	28.2	29.2	29.5	28.0	29.0	28.3	29.3	29.5
	4H	28.1	29.1	28.4	29.4	29.7	28.1	29.2	28.5	29.4	29.7
	6H	28.2	29.2	28.6	29.5	29.8	28.3	29.3	28.6	29.5	29.9
	8H	28.3	29.2	28.6	29.5	29.8	28.4	29.3	28.7	29.6	29.9
	12H	28.3	29.2	28.7	29.6	29.9	28.4	29.3	28.8	29.6	30.0
4H	2H	27.6	28.6	27.9	28.9	29.2	27.6	28.6	27.9	28.9	29.2
	3H	28.2	29.1	28.6	29.4	29.8	28.3	29.2	28.6	29.5	29.8
	4H	28.5	29.3	28.9	29.7	30.0	28.6	29.4	29.0	29.7	30.1
	6H	28.8	29.5	29.2	29.8	30.2	28.8	29.5	29.2	29.9	30.3
	8H	28.9	29.5	29.3	29.9	30.3	28.9	29.6	29.4	30.0	30.4
	12H	29.0	29.6	29.4	30.0	30.4	29.0	29.6	29.5	30.1	30.5
8H	4H	28.6	29.2	29.0	29.6	30.1	28.6	29.3	29.1	29.7	30.1
	6H	28.9	29.5	29.4	29.9	30.4	29.0	29.5	29.5	30.0	30.4
	8H	29.1	29.6	29.6	30.1	30.5	29.2	29.7	29.7	30.1	30.6
	12H	29.3	29.7	29.8	30.2	30.7	29.4	29.8	29.9	30.3	30.8
12H	4H	28.6	29.2	29.0	29.6	30.0	28.6	29.2	29.1	29.6	30.1
	6H	28.9	29.4	29.4	29.9	30.4	29.0	29.5	29.5	29.9	30.4
	8H	29.2	29.6	29.7	30.1	30.6	29.2	29.6	29.7	30.1	30.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.7 / - 0.9					+ 0.6 / - 0.8					
1.5H	+ 0.8 / - 0.6					+ 0.7 / - 0.5					
2.0H	+ 1.3 / - 0.9					+ 1.3 / - 0.9					

CIE Pub.117, 24630 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 11.1)
Area: 0.035 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-11

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:0.9352A P:196.23W PF:0.9609 Freq:49.99Hz Lamp Flux:24630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

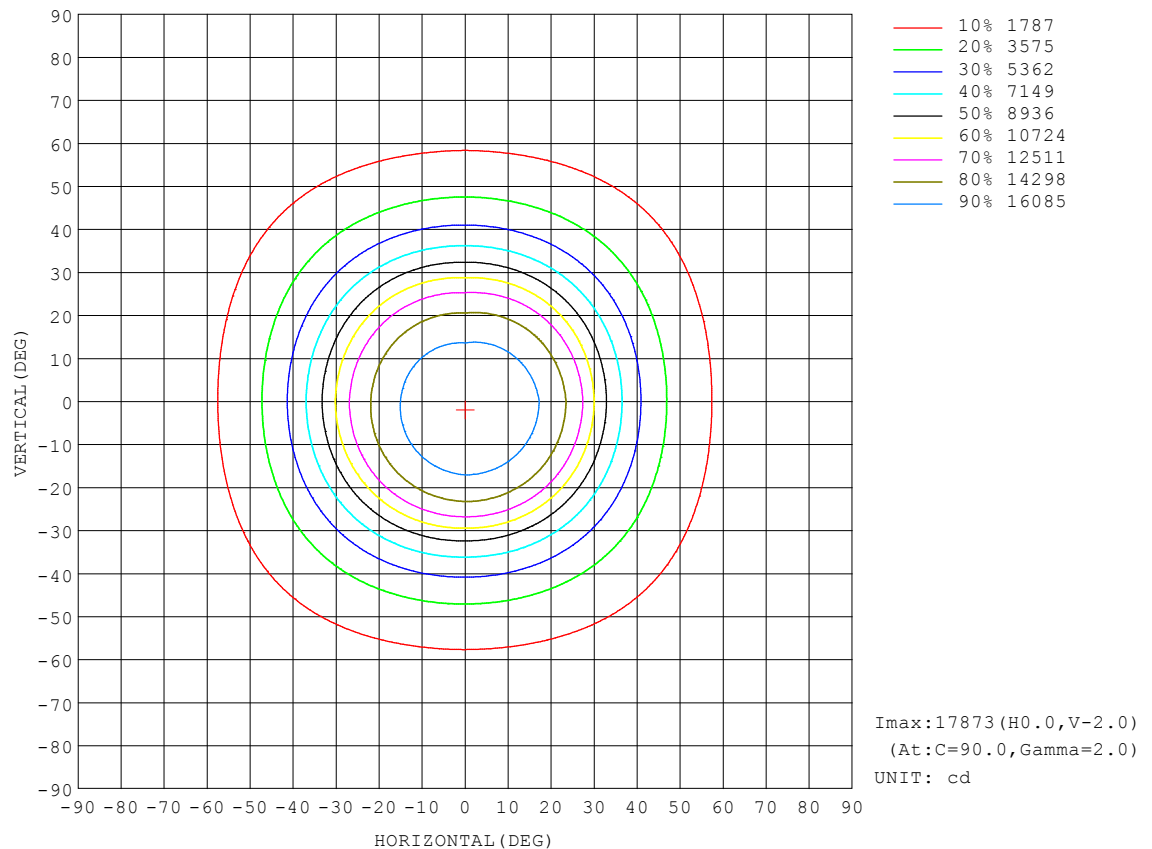
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	64	58	72	63	58	71	63	58	53
0.80	81	73	67	80	72	67	79	72	67	61
1.00	88	80	75	87	79	74	85	80	74	68
1.25	94	86	81	92	85	81	90	84	80	74
1.50	97	90	86	96	90	85	93	88	84	78
2.00	102	96	91	100	95	91	97	92	89	82
2.50	105	99	95	103	98	94	99	95	92	84
3.00	107	102	98	105	100	97	101	97	94	87
4.00	110	106	102	107	104	101	103	100	98	89
5.00	112	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: 2024-10-11

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:0.9352A P:196.23W PF:0.9609 Freq:49.99Hz Lamp Flux:24630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

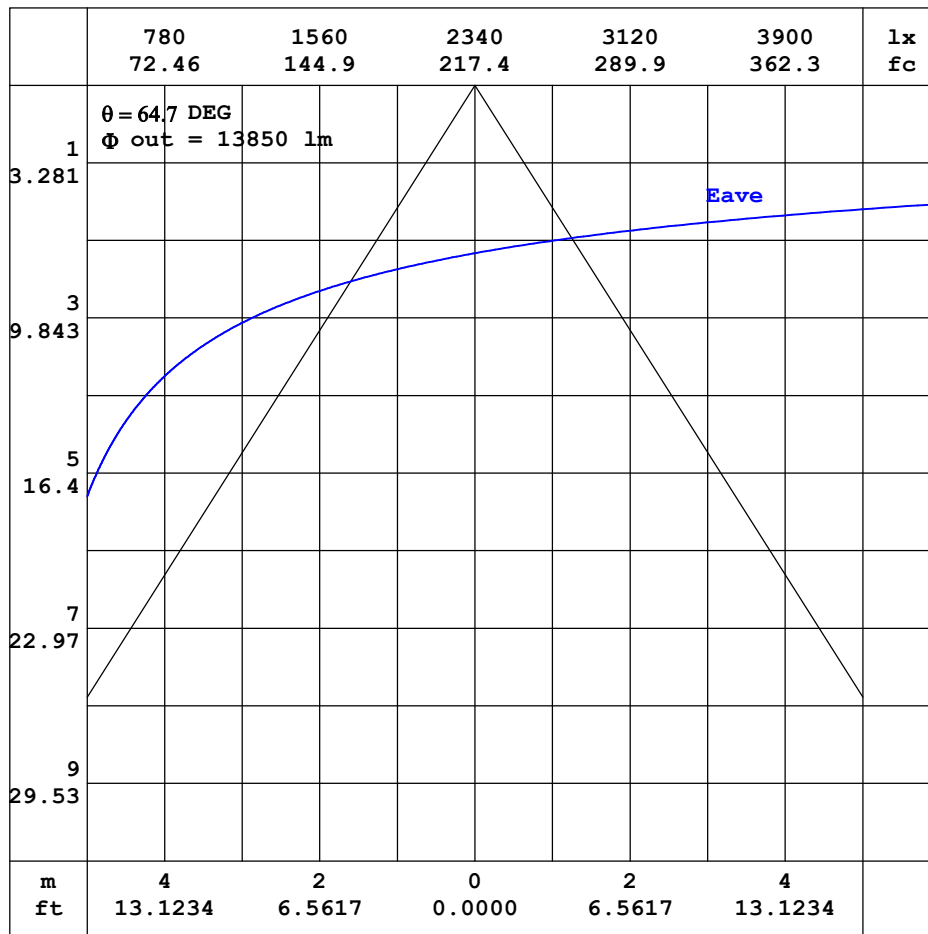


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-11

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:0.9352A P:196.23W PF:0.9609 Freq:49.99Hz Lamp Flux:24630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



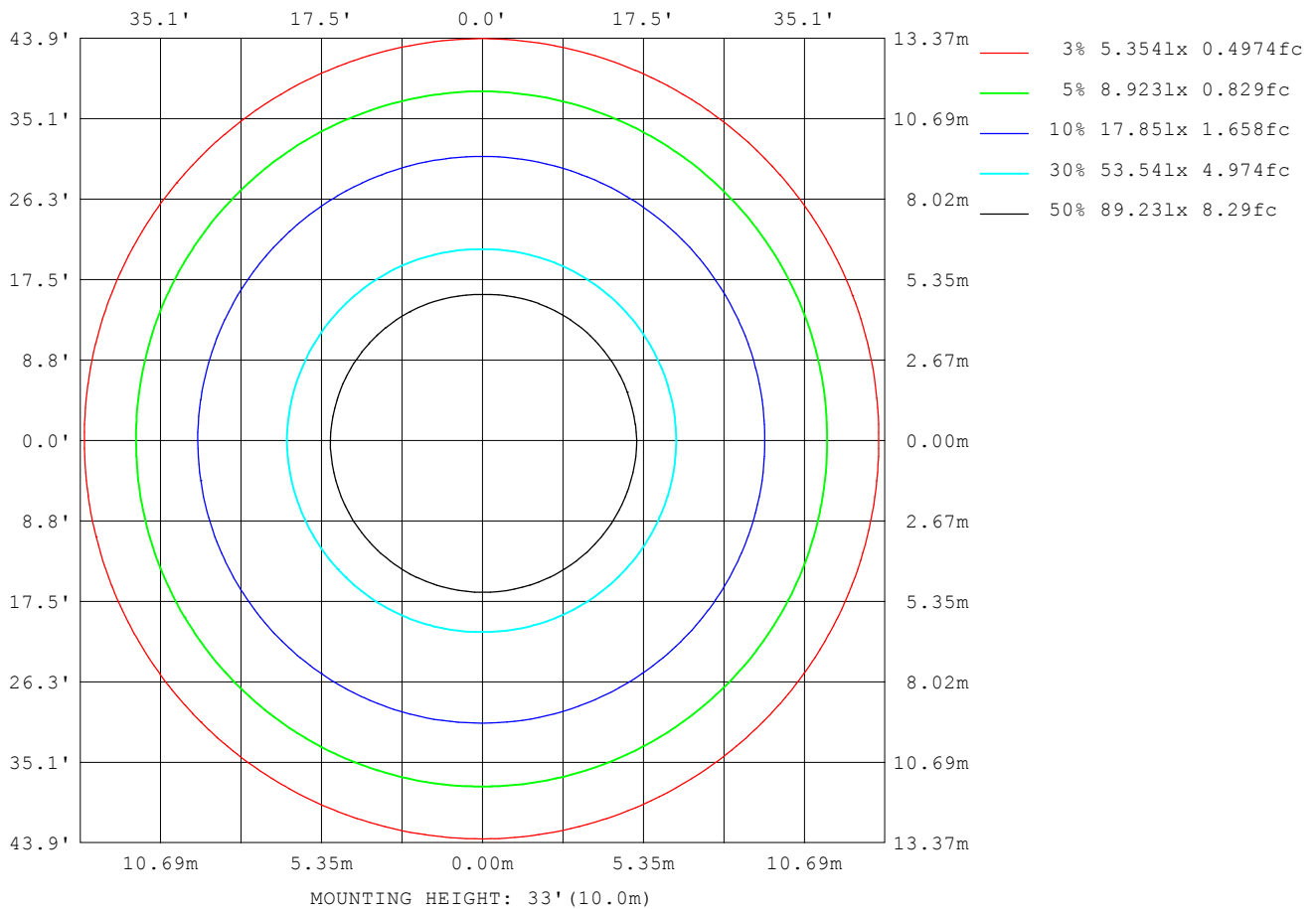
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-11

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:0.9352A P:196.23W PF:0.9609 Freq:49.99Hz Lamp Flux:24630x1 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:2024-10-11

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:0.9352A P:196.23W PF:0.9609 Freq:49.99Hz Lamp Flux:24630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

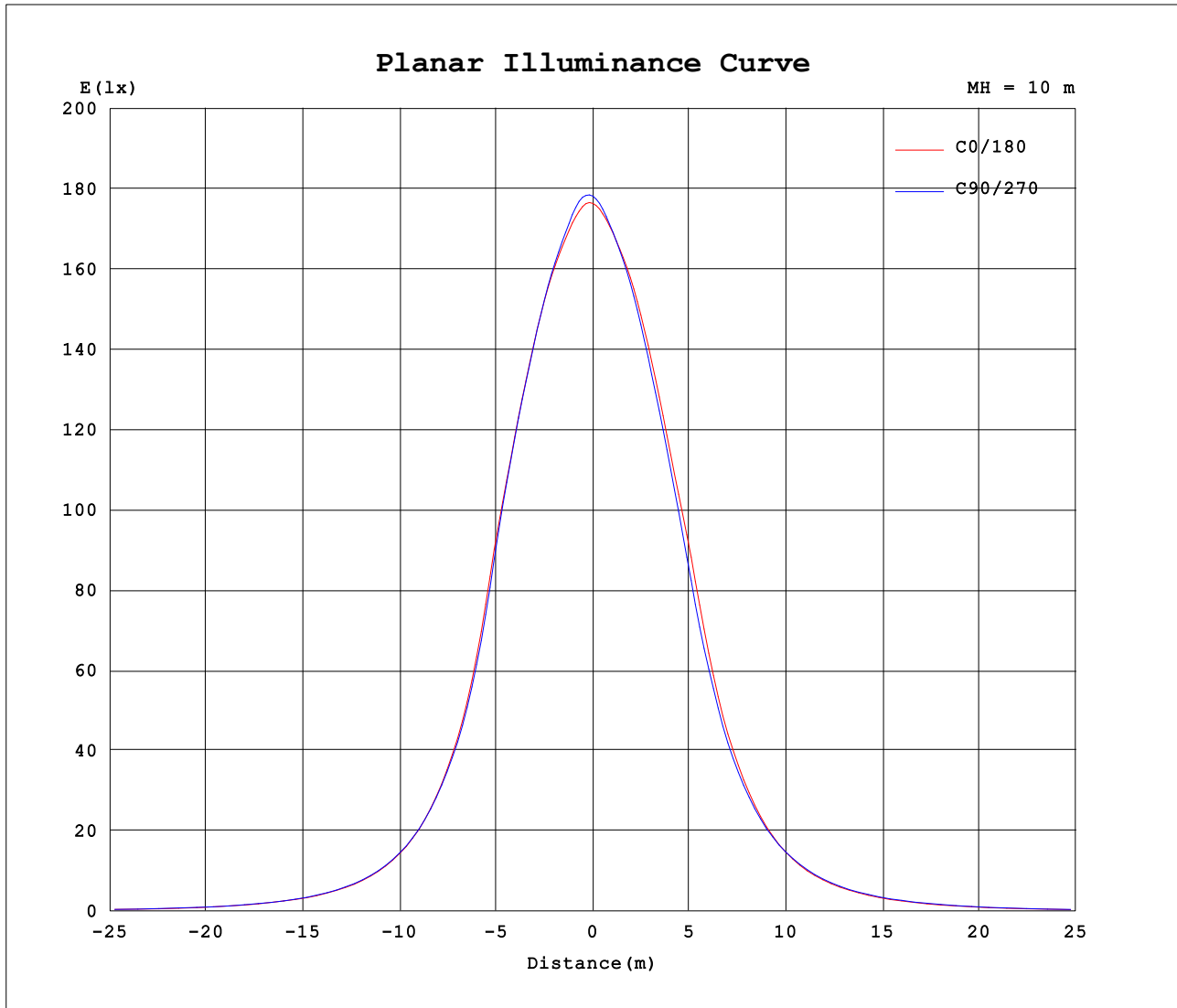
AvgL	cd/m2
L_0~180 (65) av	69989
L_0~180 (75) av	51380
L_0~180 (85) av	56594
L_90~270 (65) av	73455
L_90~270 (75) av	53777
L_90~270 (85) av	60182
L_45 (65) av	72146
L_45 (75) av	52868
L_45 (85) av	58787

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-11

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: 2024-10-11

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:0.9352A P:196.23W PF:0.9609 Freq:49.99Hz Lamp Flux:24630x1 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	1764	1782	1764	1782															
5	1751	1775	1727	1732															
10	1709	1720	1680	1670															
15	1652	1652	1609	1578															
20	1541	1538	1488	1446															
25	1370	1357	1329	1262															
30	1074	1039	1083	1008															
35	784	767	805	763															
40	570	567	588	569															
45	407	412	417	418															
50	290	296	296	305															
55	209	214	212	220															
60	150	153	151	160															
65	104	106	103	111															
70	71.7	73.6	71.3	76.8															
75	46.7	47.8	46.4	49.7															
80	29.8	30.4	29.2	31.0															
85	17.5	17.8	17.0	18.9															
90	8.10	8.04	7.88	8.34															
95	6.49	6.43	5.00	4.90															
100	6.20	6.13	5.38	5.26															
105	6.13	6.06	5.84	5.70															
110	6.29	6.20	6.41	6.23															
115	6.69	6.57	7.11	6.89															
120	7.34	7.18	7.96	7.71															
125	8.17	7.97	8.92	8.63															
130	9.15	8.91	9.98	9.64															
135	10.2	9.96	11.1	10.7															
140	11.4	11.1	12.3	11.8															
145	12.6	12.3	13.6	13.0															
150	13.9	13.5	14.8	14.2															
155	15.1	14.6	15.9	15.2															
160	16.2	15.7	16.8	16.0															
165	17.3	16.8	17.7	16.8															
170	18.1	17.6	18.4	17.5															
175	18.7	18.2	18.9	17.9															
180	18.9	18.5	19.3	18.2															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-11

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: