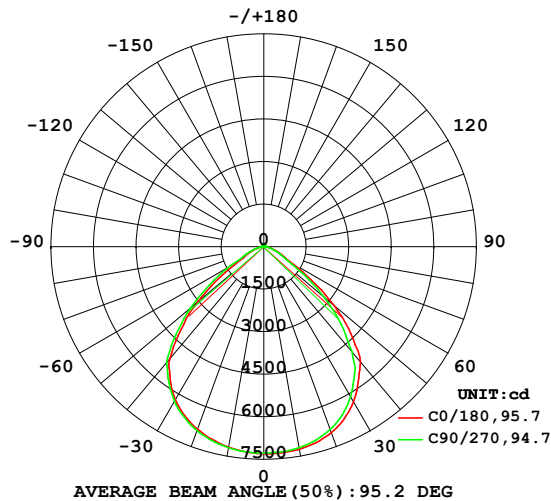


LUMINAIRE PHOTOMETRIC TEST REPORT

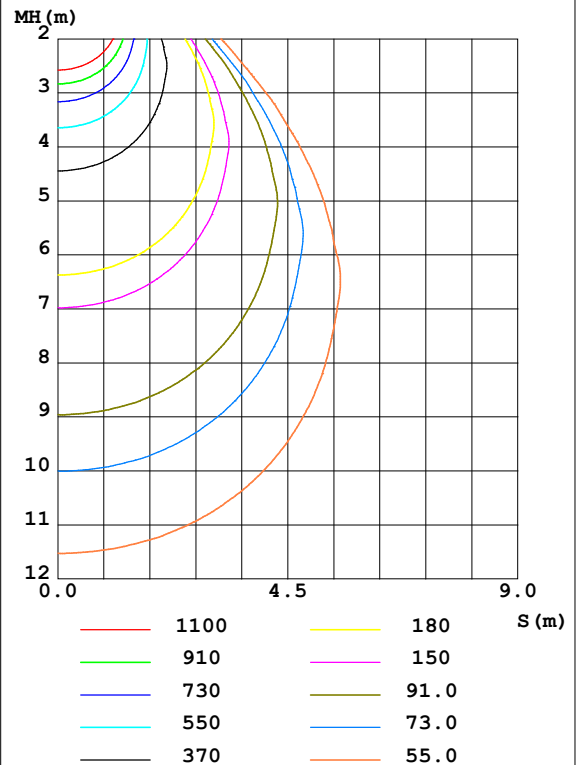
Test:U:218.58V I:0.4744A P:100.96W PF:0.9736 Freq:49.99Hz Lamp Flux:15772.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 156.22 lm/W			
MODEL		I _{max} (cd)	7309	S/MH (C0/180)	1.26
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	15772	η UP,DN(C0-180)	1.2,48.2
NOMINAL FLUX(lm)	15772.2	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,49.5
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down (%)	97.7	CIBSE SHR MAX	1.35

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:2024-09-30

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:

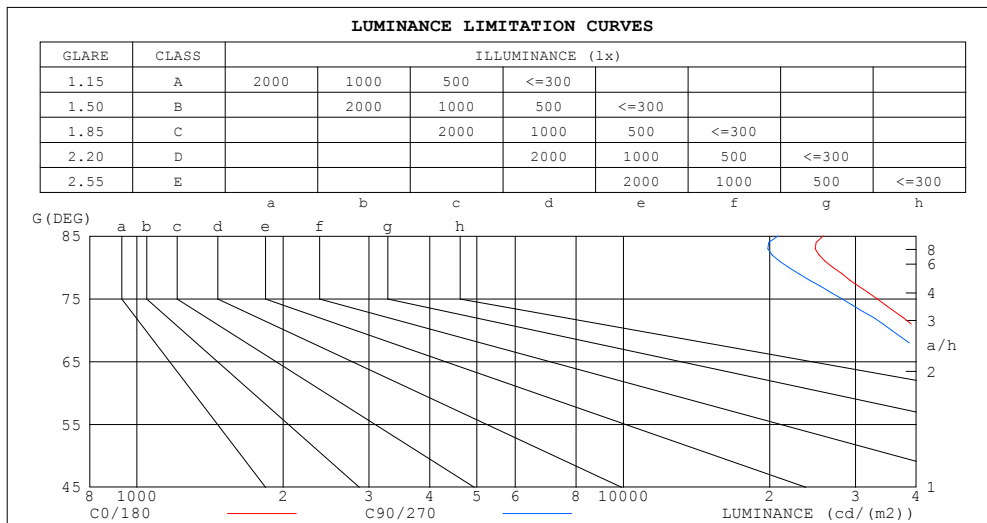
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	7255	7193	7178	7194					0- 10	691.8	691.8	4.39,4.39
20	6977	6854	6849	6900					10- 20	2000	2692	17.1,17.1
30	6327	6115	6235	6294					20- 30	3047	5739	36.4,36.4
40	5305	4846	5158	5335					30- 40	3587	9326	59.1,59.1
50	3239	2771	3046	3393					40- 50	3205	12531	79.5,79.5
60	1071	901.1	942.8	1374					50- 60	1798	14329	90.9,90.9
70	480.3	421.0	438.0	504.0					60- 70	696.3	15026	95.3,95.3
80	162.0	131.3	136.3	169.9					70- 80	305.7	15331	97.2,97.2
90	47.77	45.86	28.34	30.60					80- 90	83.59	15415	97.7,97.7
100	42.33	42.07	33.32	31.88					90-100	40.17	15455	98,98
110	44.16	44.84	41.47	39.56					100-110	41.91	15497	98.3,98.3
120	50.39	51.71	52.38	49.70					110-120	46.07	15543	98.5,98.5
130	60.23	61.74	64.92	61.68					120-130	50.59	15594	98.9,98.9
140	70.56	72.03	75.67	72.86					130-140	52.23	15646	99.2,99.2
150	80.20	81.55	86.20	83.41					140-150	48.72	15695	99.5,99.5
160	89.94	90.99	96.18	93.62					150-160	40.54	15735	99.8,99.8
170	98.27	98.80	101.7	100.1					160-170	27.26	15763	99.9,99.9
180	102.2	101.9	102.5	101.7					170-180	9.628	15772	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:2024-09-30

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:218.58V I:0.4744A P:100.96W PF:0.9736 Freq:49.99Hz Lamp Flux:15772.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



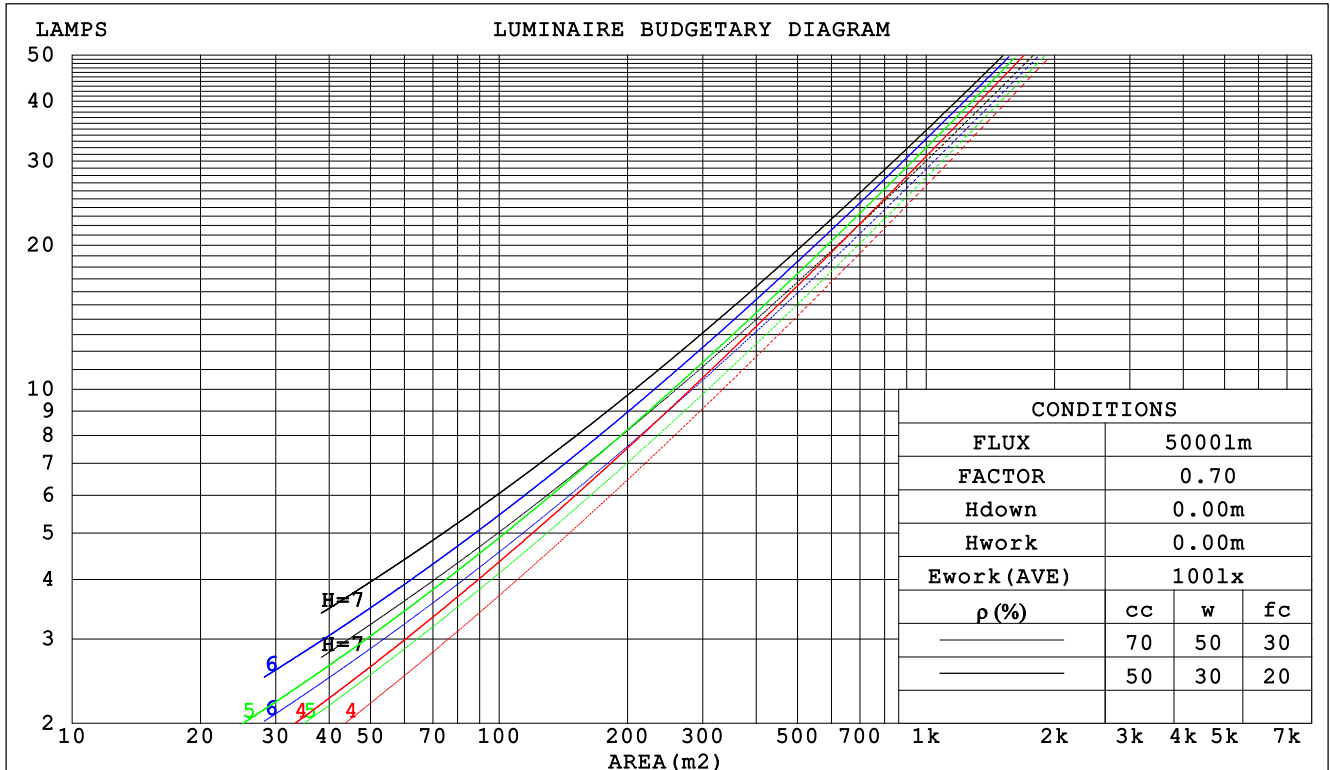
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-09-30

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:218.58V I:0.4744A P:100.96W PF:0.9736 Freq:49.99Hz Lamp Flux:15772.2x1 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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.03	1.00	1.04	1.01	.99	.00	.97	.95	.96	.94	.92	.92	.90	.89	.87
2.0	.96	.90	.86	.94	.89	.84	.90	.86	.82	.86	.83	.80	.83	.80	.78	.76
3.0	.86	.79	.74	.84	.78	.73	.81	.76	.71	.78	.74	.70	.76	.72	.69	.67
4.0	.78	.70	.64	.76	.69	.64	.73	.67	.63	.71	.66	.62	.69	.64	.61	.59
5.0	.70	.62	.57	.69	.62	.56	.67	.60	.55	.65	.59	.55	.63	.58	.54	.52
6.0	.64	.56	.50	.63	.55	.50	.61	.54	.49	.59	.53	.49	.57	.52	.48	.46
7.0	.58	.51	.45	.58	.50	.45	.56	.49	.44	.54	.48	.44	.53	.48	.43	.42
8.0	.54	.46	.41	.53	.45	.40	.51	.45	.40	.50	.44	.40	.49	.43	.39	.38
9.0	.49	.42	.37	.49	.42	.37	.47	.41	.36	.46	.40	.36	.45	.40	.36	.34
10.0	.46	.38	.34	.45	.38	.33	.44	.38	.33	.43	.37	.33	.42	.37	.33	.31



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-30

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:218.58V I:0.4744A P:100.96W PF:0.9736 Freq:49.99Hz Lamp Flux:15772.2x1 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	.243	.138	.044	.236	.134	.043	.221	.127	.041	.208	.120	.039	.196	.114	.037		
2.0	.236	.129	.040	.229	.126	.039	.217	.120	.037	.205	.115	.036	.195	.110	.035		
3.0	.224	.119	.036	.218	.117	.035	.207	.112	.034	.197	.108	.033	.188	.104	.032		
4.0	.211	.110	.032	.206	.108	.032	.197	.104	.031	.188	.101	.030	.179	.097	.030		
5.0	.199	.102	.029	.195	.100	.029	.186	.097	.029	.178	.094	.028	.171	.091	.027		
6.0	.188	.094	.027	.184	.093	.027	.176	.090	.026	.169	.088	.026	.162	.085	.025		
7.0	.177	.088	.025	.174	.087	.025	.167	.084	.024	.160	.082	.024	.154	.080	.024		
8.0	.168	.082	.023	.164	.081	.023	.158	.079	.023	.152	.077	.022	.147	.075	.022		
9.0	.159	.077	.021	.156	.076	.021	.150	.074	.021	.145	.073	.021	.140	.071	.020		
10.0	.151	.072	.020	.148	.071	.020	.143	.070	.020	.138	.068	.019	.133	.067	.019		

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	.157	.165	.149	.135	.113	.103	.093	.065	.059	.054	.021	.019	.018	
2.0	.182	.150	.122	.156	.129	.106	.107	.089	.074	.062	.052	.043	.020	.017	.014	
3.0	.173	.132	.098	.148	.114	.085	.102	.079	.060	.059	.046	.035	.019	.015	.012	
4.0	.165	.118	.082	.142	.102	.071	.097	.071	.050	.056	.042	.030	.018	.014	.010	
5.0	.158	.107	.070	.136	.093	.060	.093	.065	.043	.054	.038	.025	.017	.012	.008	
6.0	.151	.099	.061	.130	.085	.053	.090	.060	.037	.052	.035	.022	.017	.011	.007	
7.0	.145	.092	.054	.125	.079	.047	.086	.056	.033	.050	.033	.020	.016	.011	.007	
8.0	.139	.086	.049	.120	.074	.043	.083	.052	.030	.048	.031	.018	.016	.010	.006	
9.0	.134	.081	.045	.115	.070	.039	.080	.049	.028	.047	.029	.017	.015	.010	.005	
10.0	.129	.077	.042	.111	.067	.036	.077	.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:2024-09-30

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:218.58V I:0.4744A P:100.96W PF:0.9736 Freq:49.99Hz Lamp Flux:15772.2x1 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	28.2	29.5	28.5	29.7	30.0	27.7	29.0	28.0	29.2	29.4	
	3H	28.4	29.6	28.7	29.8	30.1	27.9	29.0	28.2	29.3	29.6	
	4H	28.4	29.6	28.8	29.8	30.1	27.9	29.0	28.2	29.3	29.6	
	6H	28.5	29.5	28.8	29.8	30.1	27.9	28.9	28.3	29.2	29.6	
	8H	28.4	29.4	28.8	29.8	30.1	27.9	28.9	28.2	29.2	29.5	
	12H	28.4	29.4	28.8	29.7	30.1	27.9	28.8	28.2	29.1	29.5	
	4H	2H	28.2	29.3	28.5	29.6	29.9	27.7	28.8	28.0	29.1	29.4
		3H	28.5	29.4	28.9	29.8	30.1	28.0	29.0	28.4	29.3	29.6
		4H	28.6	29.5	29.0	29.8	30.2	28.1	29.0	28.5	29.3	29.7
		6H	28.7	29.4	29.1	29.8	30.2	28.2	28.9	28.6	29.3	29.7
		8H	28.7	29.4	29.1	29.8	30.2	28.2	28.9	28.6	29.3	29.7
		12H	28.7	29.3	29.1	29.8	30.2	28.2	28.8	28.6	29.2	29.7
8H	4H	28.6	29.3	29.0	29.7	30.1	28.1	28.8	28.5	29.2	29.6	
	6H	28.7	29.3	29.2	29.7	30.2	28.2	28.8	28.7	29.2	29.7	
	8H	28.7	29.2	29.2	29.7	30.2	28.2	28.7	28.7	29.2	29.7	
	12H	28.8	29.2	29.3	29.7	30.2	28.2	28.7	28.8	29.2	29.7	
12H	4H	28.5	29.2	29.0	29.6	30.0	28.1	28.7	28.5	29.1	29.6	
	6H	28.7	29.2	29.2	29.6	30.1	28.2	28.7	28.7	29.1	29.6	
	8H	28.7	29.2	29.2	29.6	30.2	28.2	28.7	28.7	29.1	29.7	
Variations with the observer position at spacings:												
S = 1.0H	+ 1.0 / - 1.3					+ 1.1 / - 1.6						
1.5H	+ 0.7 / - 1.1					+ 0.6 / - 1.0						
2.0H	+ 2.6 / - 2.7					+ 2.5 / - 2.6						

CIE Pub.117, 15772 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 9.6)
Area: 0.0346 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-30

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:218.58V I:0.4744A P:100.96W PF:0.9736 Freq:49.99Hz Lamp Flux:15772.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

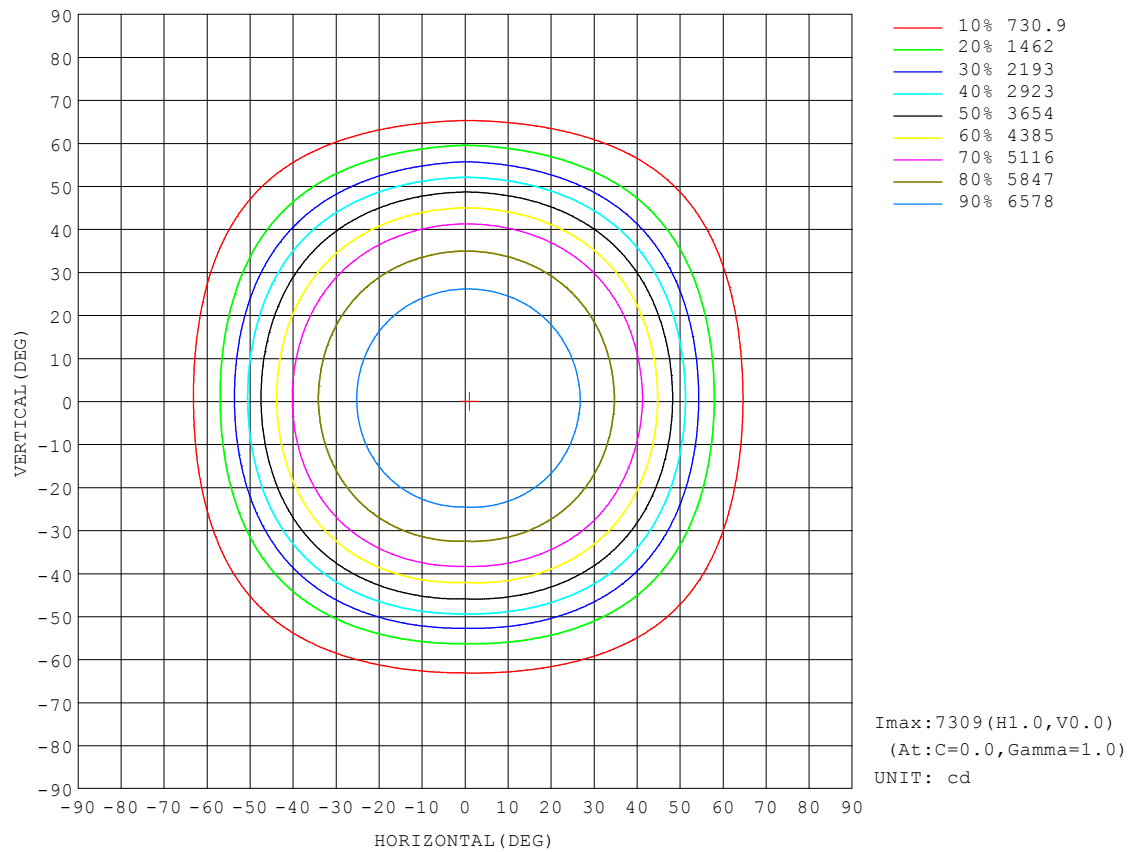
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	55	49	65	55	49	64	55	49	43
0.80	76	66	60	75	66	60	73	65	59	53
1.00	84	75	69	83	74	69	81	75	68	62
1.25	90	82	76	89	81	76	86	80	75	69
1.50	95	87	82	93	86	81	90	84	80	73
2.00	100	94	89	99	92	88	95	90	86	79
2.50	103	97	92	101	96	91	97	93	89	82
3.00	106	101	96	104	99	95	100	96	93	84
4.00	109	104	101	106	102	99	102	99	96	87
5.00	111	107	104	108	105	102	103	101	98	89
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: 2024-09-30

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:218.58V I:0.4744A P:100.96W PF:0.9736 Freq:49.99Hz Lamp Flux:15772.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

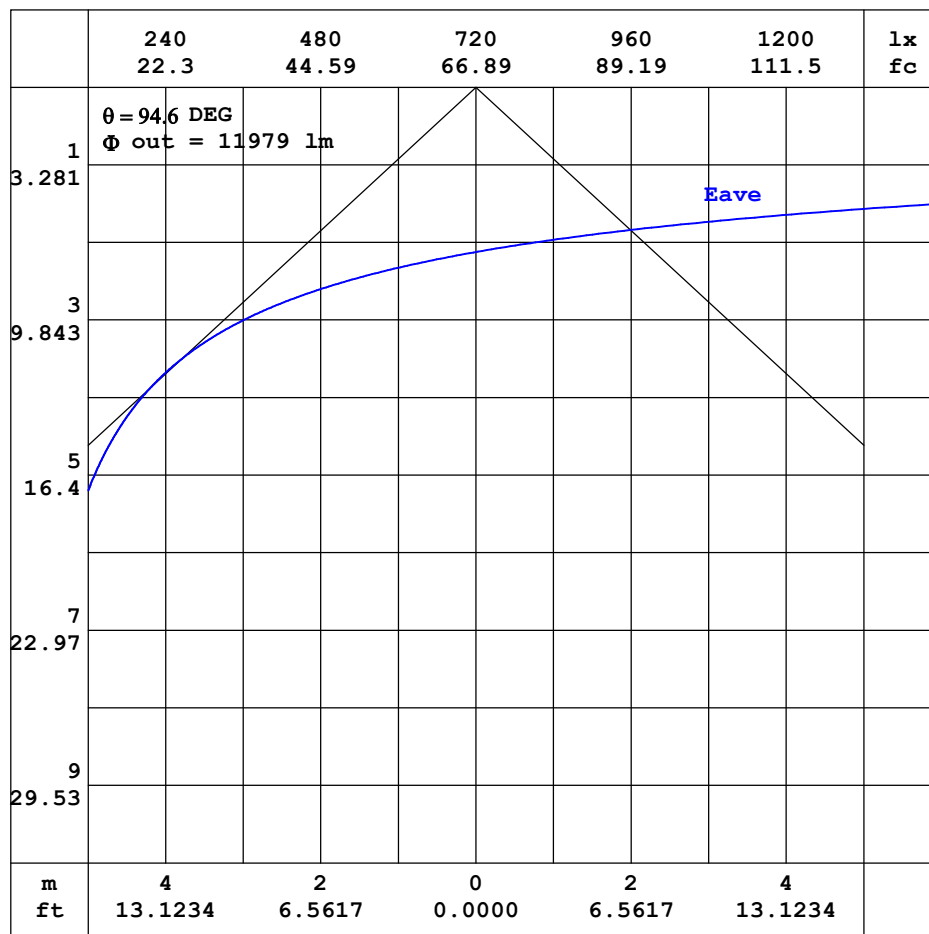


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-30

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:218.58V I:0.4744A P:100.96W PF:0.9736 Freq:49.99Hz Lamp Flux:15772.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



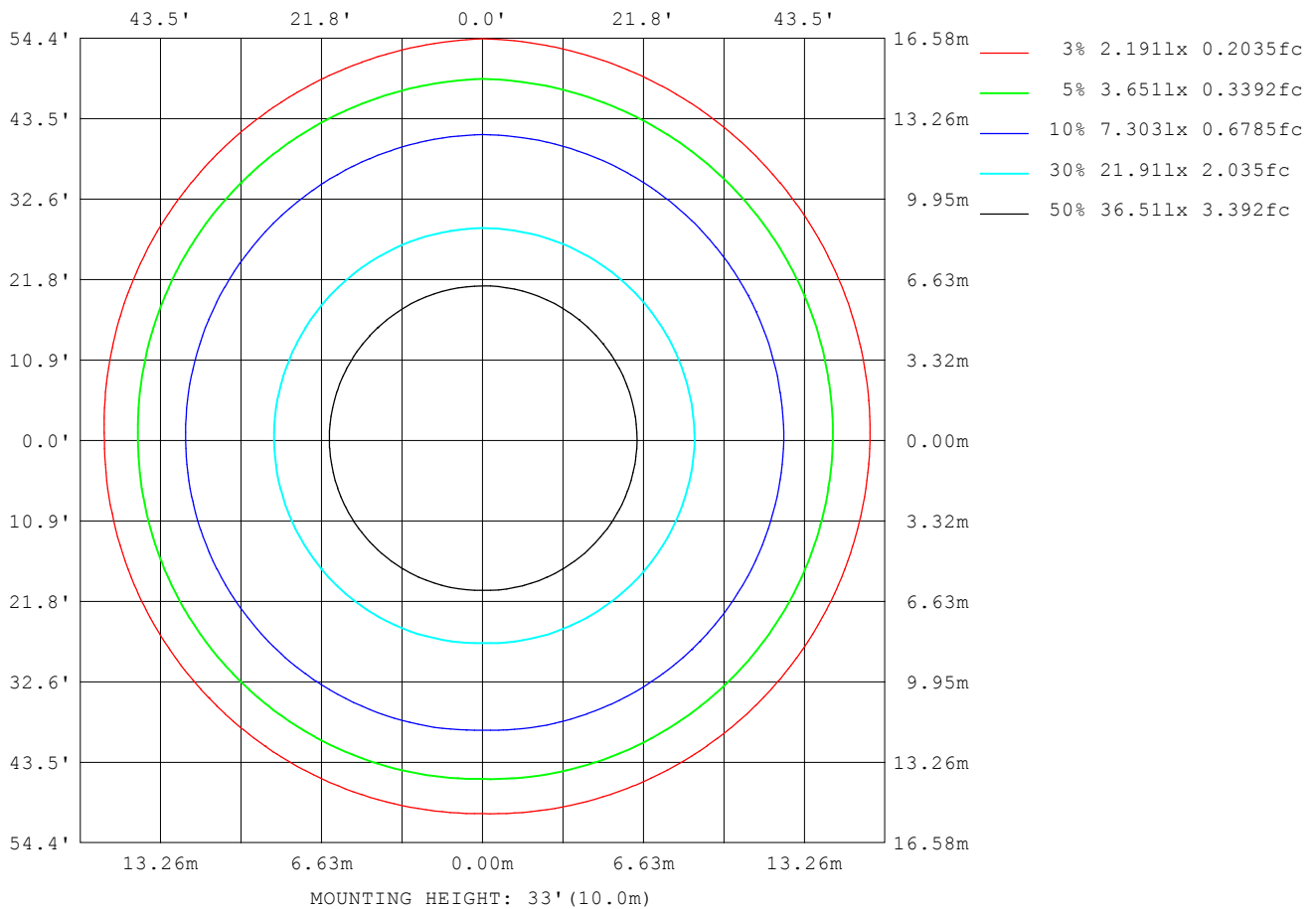
Note: The Curves indicate the illuminated area and the average illuminance when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-09-30

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:218.58V I:0.4744A P:100.96W PF:0.9736 Freq:49.99Hz Lamp Flux:15772.2x1 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:2024-09-30

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:218.58V I:0.4744A P:100.96W PF:0.9736 Freq:49.99Hz Lamp Flux:15772.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

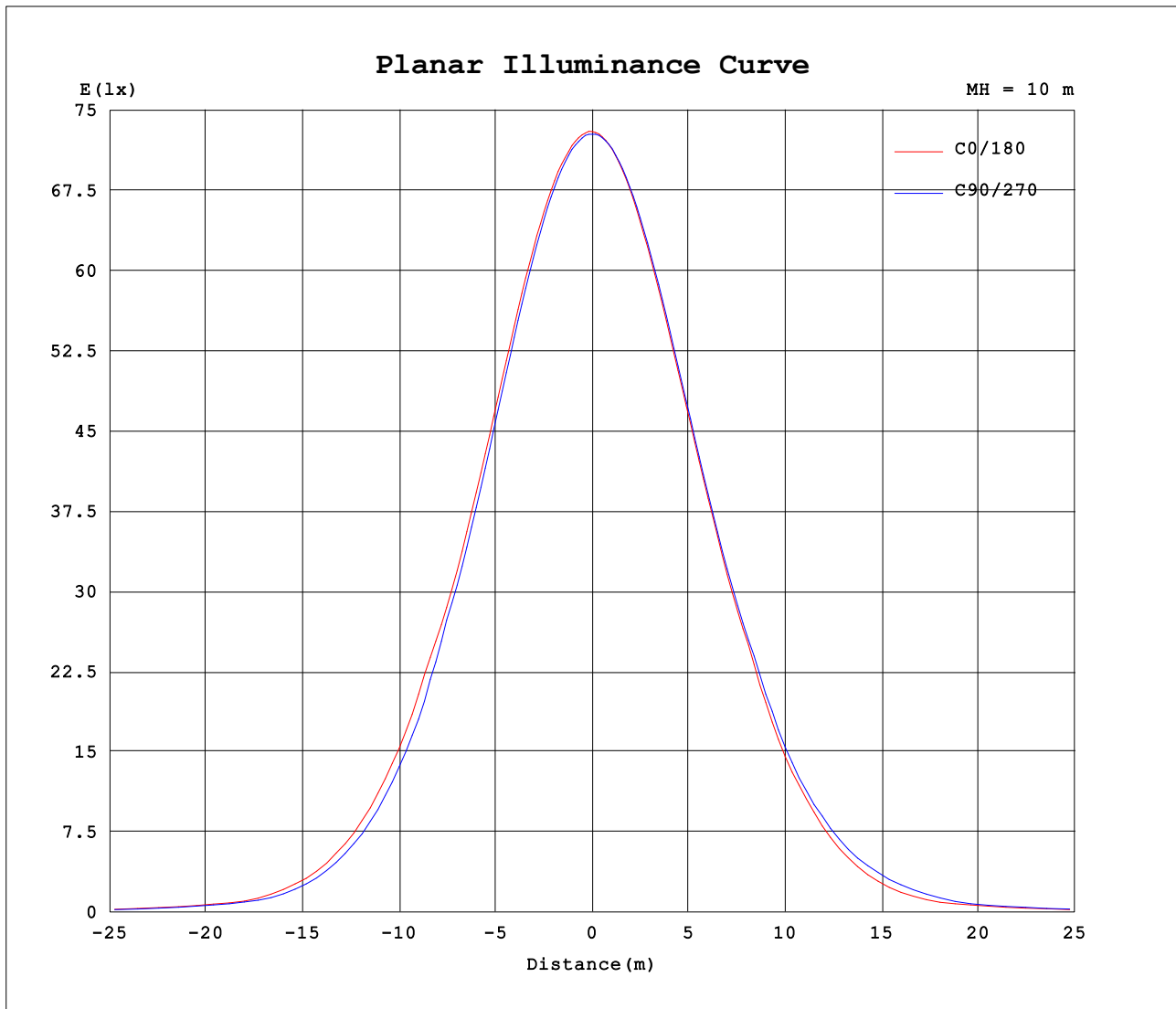
AvgL	cd/m2
L_0~180 (65) av	46499
L_0~180 (75) av	31420
L_0~180 (85) av	22183
L_90~270 (65) av	47258
L_90~270 (75) av	31583
L_90~270 (85) av	22708
L_45 (65) av	46840
L_45 (75) av	31410
L_45 (85) av	22288

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-30

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: 2024-09-30

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:218.58V I:0.4744A P:100.96W PF:0.9736 Freq:49.99Hz Lamp Flux:15772.2x1 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	7303	7276	7303	7276															
5	7293	7259	7262	7265															
10	7255	7193	7178	7194															
15	7148	7065	7035	7080															
20	6977	6854	6849	6900															
25	6706	6549	6589	6642															
30	6327	6115	6235	6294															
35	5815	5567	5749	5839															
40	5305	4846	5158	5335															
45	4343	3859	4130	4377															
50	3239	2771	3046	3393															
55	2034	1709	1868	2312															
60	1071	901	943	1374															
65	711	637	649	745															
70	480	421	438	504															
75	297	252	265	314															
80	162	131	136	170															
85	77.7	62.7	56.1	74.2															
90	47.8	45.9	28.3	30.6															
95	43.9	43.1	30.1	29.0															
100	42.3	42.1	33.3	31.9															
105	42.5	42.8	37.2	35.5															
110	44.2	44.8	41.5	39.6															
115	46.8	47.8	46.4	44.2															
120	50.4	51.7	52.4	49.7															
125	54.9	56.5	58.8	55.6															
130	60.2	61.7	64.9	61.7															
135	65.5	67.0	70.6	67.6															
140	70.6	72.0	75.7	72.9															
145	75.4	76.8	80.7	78.0															
150	80.2	81.5	86.2	83.4															
155	85.1	86.3	91.6	88.8															
160	89.9	91.0	96.2	93.6															
165	94.5	95.3	99.7	97.5															
170	98.3	98.8	102	100															
175	101	101	102	101															
180	102	102	103	102															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-30

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: