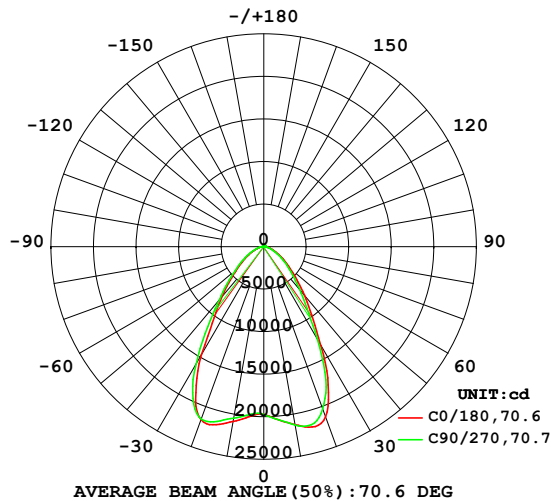


LUMINAIRE PHOTOMETRIC TEST REPORT

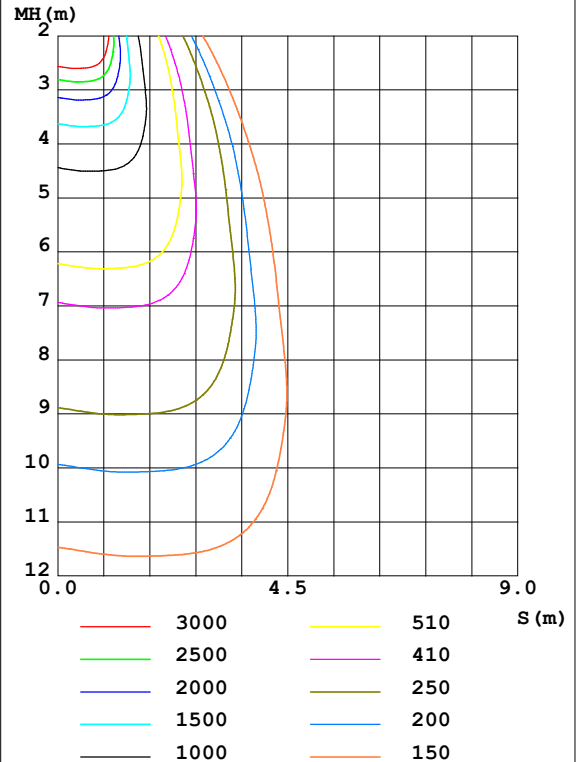
Test:U:218.28V I:0.9541A P:201.98W PF:0.9699 Freq:49.99Hz Lamp Flux:33179.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 164.27 lm/W			
MODEL		Imax(cd)	21985	S/MH(C0/180)	1.04
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.08
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	33179	η UP,DN(C0-180)	1.1,46.9
NOMINAL FLUX(lm)	33179.4	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,50.9
LAMPS INSIDE	1	η up(%)	2.2	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220.0	η down(%)	97.8	CIBSE SHR MAX	1.05

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:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

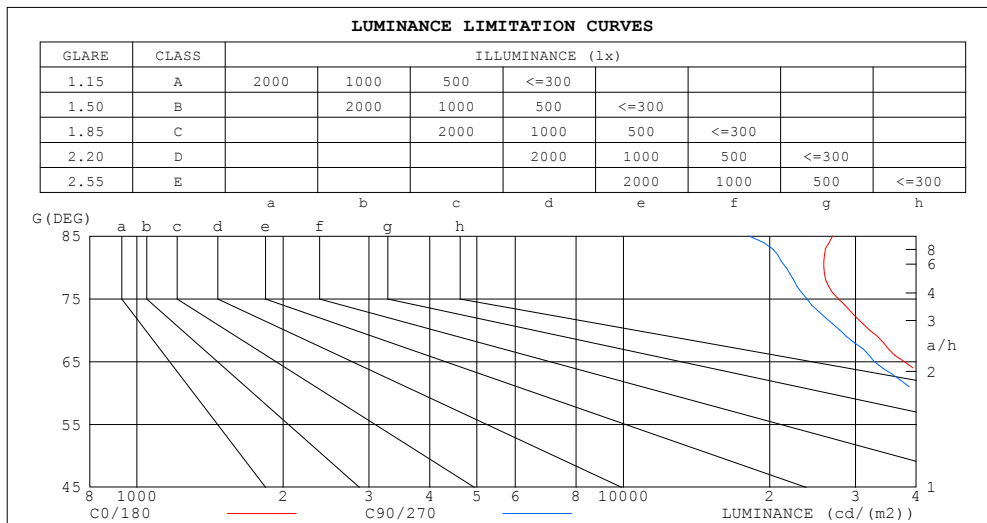
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	2123	2129	2087	2047					0- 10	1953	1953	5.89,5.89
20	2125	2027	2164	2155					10- 20	6085	8038	24.2,24.2
30	1342	1265	1468	1592					20- 30	8331	16369	49.3,49.3
40	743.9	657.4	763.2	812.2					30- 40	6411	22779	68.7,68.7
50	411.9	368.9	413.1	445.2					40- 50	4298	27077	81.6,81.6
60	228.8	202.0	224.0	246.0					50- 60	2764	29841	89.9,89.9
70	109.7	95.36	106.9	118.1					60- 70	1587	31428	94.7,94.7
80	44.85	37.52	41.65	48.66					70- 80	757.6	32186	97,97
90	9.630	9.276	6.437	9.231					80- 90	253.0	32439	97.8,97.8
100	8.341	8.197	7.159	6.896					90-100	84.52	32523	98,98
110	8.211	8.301	8.339	8.015					100-110	83.10	32606	98.3,98.3
120	9.437	9.829	10.29	9.884					110-120	88.68	32695	98.5,98.5
130	12.10	12.52	12.74	12.29					120-130	99.30	32794	98.8,98.8
140	15.02	15.50	15.32	14.89					130-140	106.5	32901	99.2,99.2
150	17.89	18.43	18.09	17.74					140-150	103.9	33005	99.5,99.5
160	20.98	21.46	20.70	20.44					150-160	89.73	33094	99.7,99.7
170	23.58	23.90	22.86	22.69					160-170	62.46	33157	99.9,99.9
180	24.03	24.20	24.15	24.11					170-180	22.60	33179	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.28V I:0.9541A P:201.98W PF:0.9699 Freq:49.99Hz Lamp Flux:33179.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



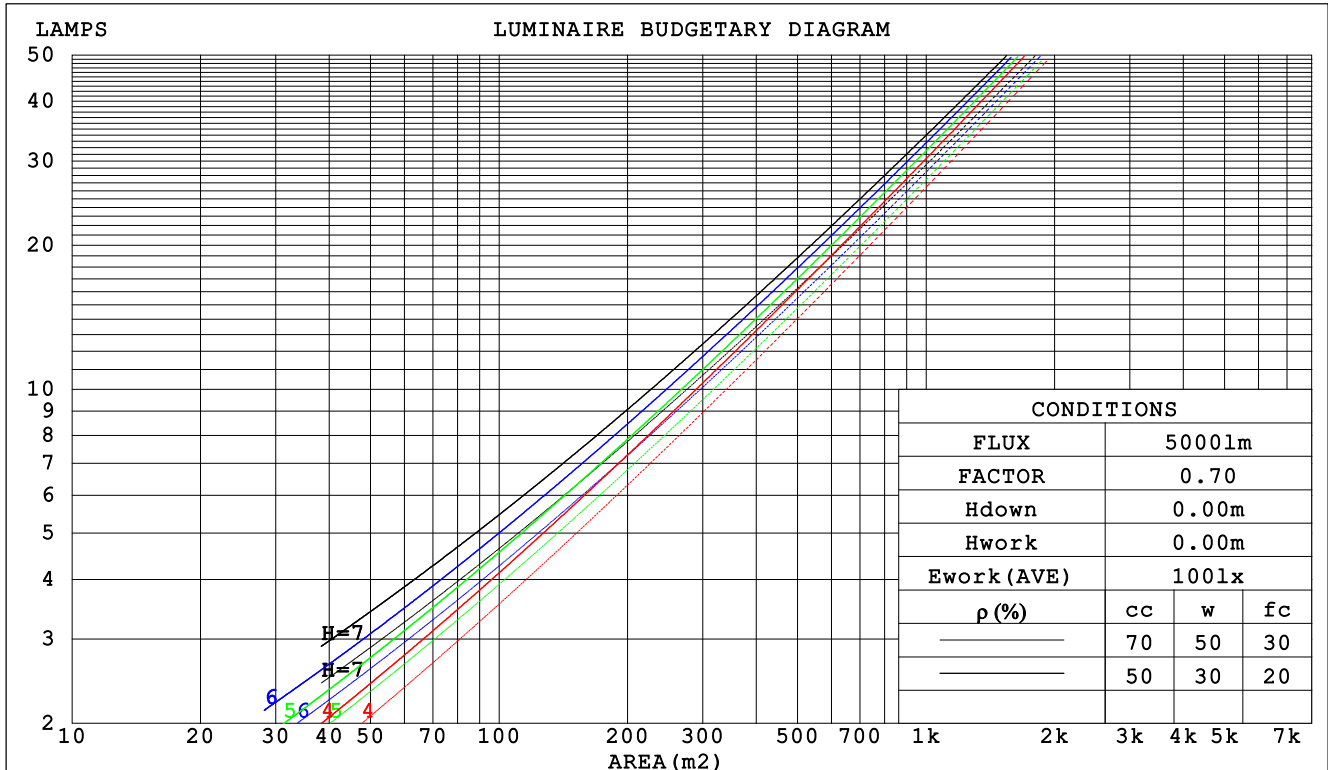
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:218.28V I:0.9541A P:201.98W PF:0.9699 Freq:49.99Hz Lamp Flux:33179.4x1 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	1.16	1.16	1.16	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	.89	.87
2.0	.97	.92	.87	.95	.90	.86	.91	.87	.84	.88	.85	.82	.85	.82	.80	.78
3.0	.88	.82	.77	.87	.81	.76	.83	.78	.74	.81	.76	.73	.78	.74	.71	.69
4.0	.80	.73	.68	.79	.73	.68	.76	.71	.66	.74	.69	.65	.72	.68	.64	.62
5.0	.74	.66	.61	.73	.66	.61	.70	.64	.60	.68	.63	.59	.66	.62	.58	.57
6.0	.68	.61	.55	.67	.60	.55	.65	.59	.54	.63	.58	.54	.62	.57	.53	.51
7.0	.63	.55	.50	.62	.55	.50	.60	.54	.50	.59	.53	.49	.57	.53	.49	.47
8.0	.58	.51	.46	.58	.51	.46	.56	.50	.46	.55	.49	.45	.54	.49	.45	.43
9.0	.54	.47	.43	.54	.47	.42	.52	.46	.42	.51	.46	.42	.50	.45	.42	.40
10.0	.51	.44	.39	.50	.44	.39	.49	.43	.39	.48	.43	.39	.47	.42	.39	.37



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.28V I:0.9541A P:201.98W PF:0.9699 Freq:49.99Hz Lamp Flux:33179.4x1 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	.234	.133	.042	.226	.129	.041	.212	.122	.039	.199	.115	.037	.187	.108	.035	
2.0	.223	.122	.037	.216	.119	.037	.204	.114	.035	.193	.108	.034	.182	.103	.033	
3.0	.210	.112	.033	.204	.109	.033	.194	.105	.032	.184	.101	.031	.175	.097	.030	
4.0	.198	.103	.030	.193	.101	.030	.183	.097	.029	.174	.094	.028	.166	.090	.027	
5.0	.186	.095	.027	.181	.093	.027	.173	.090	.027	.165	.087	.026	.158	.084	.025	
6.0	.175	.088	.025	.171	.086	.025	.164	.084	.024	.157	.081	.024	.150	.079	.023	
7.0	.165	.082	.023	.162	.081	.023	.155	.078	.023	.149	.076	.022	.143	.074	.022	
8.0	.156	.076	.021	.153	.075	.021	.147	.073	.021	.141	.072	.021	.136	.070	.020	
9.0	.148	.072	.020	.145	.071	.020	.140	.069	.020	.135	.068	.019	.130	.066	.019	
10.0	.141	.067	.019	.138	.067	.019	.133	.065	.018	.128	.064	.018	.124	.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	.207	.207	.207	.177	.177	.177	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.192	.174	.158	.164	.149	.136	.112	.103	.094	.065	.059	.055	.021	.019	.018	
2.0	.180	.150	.124	.154	.129	.107	.106	.089	.075	.061	.052	.044	.020	.017	.014	
3.0	.170	.131	.100	.146	.113	.087	.100	.079	.061	.058	.046	.036	.019	.015	.012	
4.0	.162	.117	.083	.139	.101	.072	.095	.071	.051	.055	.041	.030	.018	.013	.010	
5.0	.154	.106	.071	.132	.092	.062	.091	.064	.044	.053	.038	.026	.017	.012	.009	
6.0	.147	.098	.062	.126	.084	.054	.087	.059	.038	.050	.035	.023	.016	.011	.008	
7.0	.140	.090	.055	.121	.078	.048	.083	.055	.034	.048	.032	.020	.016	.011	.007	
8.0	.134	.084	.050	.116	.073	.044	.080	.051	.031	.047	.030	.018	.015	.010	.006	
9.0	.129	.079	.046	.111	.069	.040	.077	.048	.028	.045	.029	.017	.015	.009	.006	
10.0	.124	.075	.043	.107	.065	.037	.074	.046	.026	.043	.027	.016	.014	.009	.005	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:218.28V I:0.9541A P:201.98W PF:0.9699 Freq:49.99Hz Lamp Flux:33179.4x1 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	12.8	13.9	13.0	14.2	14.4	12.3	13.5	12.6	13.7	13.9
3H	13.4	14.5	13.7	14.7	15.0	12.9	14.0	13.2	14.2	14.5
4H	13.6	14.6	13.9	14.9	15.2	13.1	14.1	13.4	14.4	14.7
6H	13.8	14.8	14.1	15.0	15.4	13.2	14.2	13.6	14.5	14.8
8H	13.8	14.8	14.2	15.1	15.4	13.3	14.2	13.6	14.5	14.8
12H	13.9	14.8	14.3	15.1	15.5	13.3	14.2	13.6	14.5	14.8
4H 2H	13.0	14.0	13.3	14.3	14.5	12.6	13.6	12.9	13.9	14.2
3H	13.7	14.6	14.1	14.9	15.3	13.3	14.2	13.7	14.5	14.8
4H	14.1	14.9	14.5	15.2	15.6	13.6	14.4	14.0	14.8	15.1
6H	14.3	15.1	14.8	15.4	15.8	13.8	14.5	14.3	14.9	15.3
8H	14.5	15.1	14.9	15.5	15.9	13.9	14.6	14.4	15.0	15.4
12H	14.6	15.2	15.0	15.6	16.0	14.0	14.6	14.4	15.0	15.4
8H 4H	14.1	14.8	14.6	15.2	15.6	13.7	14.3	14.1	14.7	15.2
6H	14.5	15.1	15.0	15.5	16.0	14.0	14.6	14.5	15.0	15.5
8H	14.7	15.2	15.2	15.6	16.1	14.2	14.7	14.7	15.1	15.6
12H	14.9	15.3	15.4	15.8	16.3	14.3	14.7	14.8	15.2	15.7
12H 4H	14.1	14.7	14.6	15.1	15.6	13.7	14.3	14.1	14.7	15.1
6H	14.5	15.0	15.0	15.5	16.0	14.1	14.5	14.5	15.0	15.5
8H	14.7	15.2	15.2	15.6	16.2	14.2	14.7	14.7	15.1	15.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.7					+ 0.5 / - 0.7				
1.5H	+ 0.5 / - 0.4					+ 0.5 / - 0.5				
2.0H	+ 1.0 / - 0.8					+ 1.0 / - 0.8				

CIE Pub.117, 33179 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 12.2)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.28V I:0.9541A P:201.98W PF:0.9699 Freq:49.99Hz Lamp Flux:33179.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

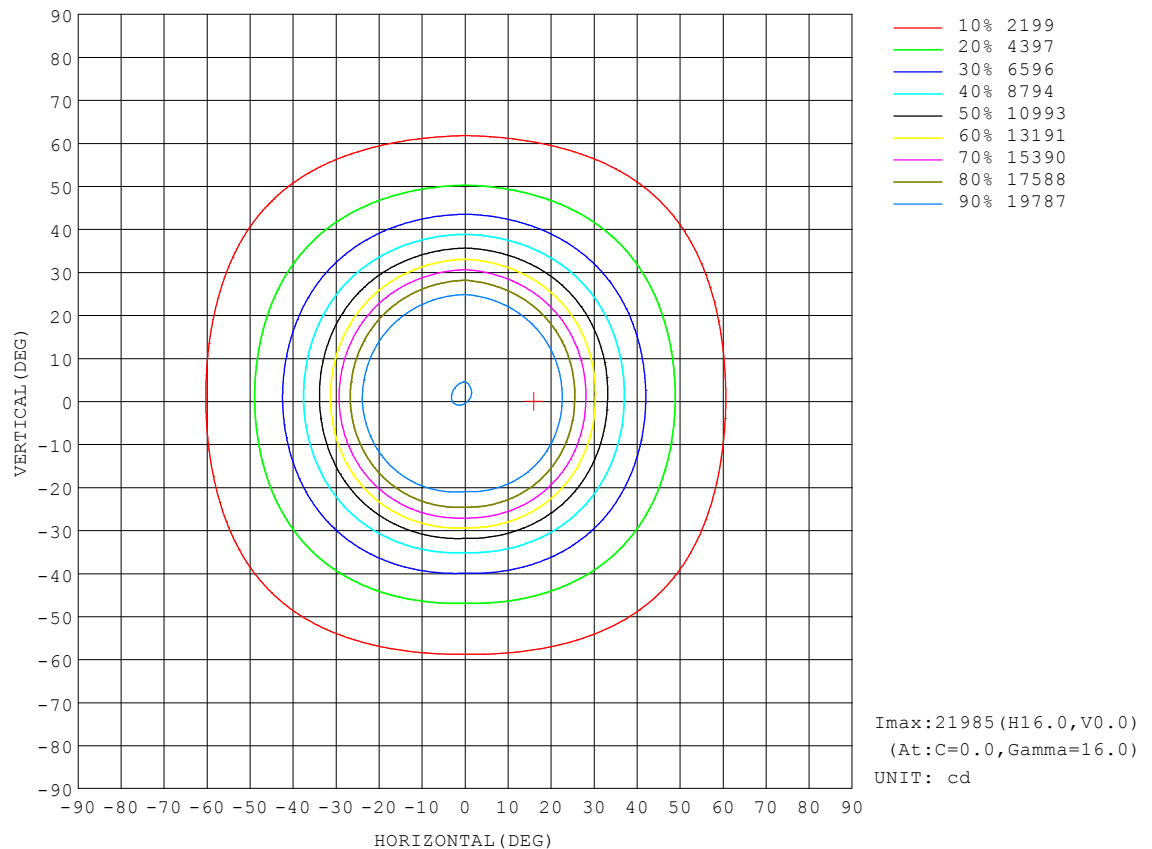
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	63	58	71	63	58	70	62	57	52
0.80	81	72	67	80	72	67	78	71	66	61
1.00	88	79	74	87	79	74	84	79	73	68
1.25	93	86	80	92	85	80	89	83	79	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	91	100	94	90	97	92	88	82
2.50	105	99	95	103	97	94	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: DAMIN
Test Date: 2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:218.28V I:0.9541A P:201.98W PF:0.9699 Freq:49.99Hz Lamp Flux:33179.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

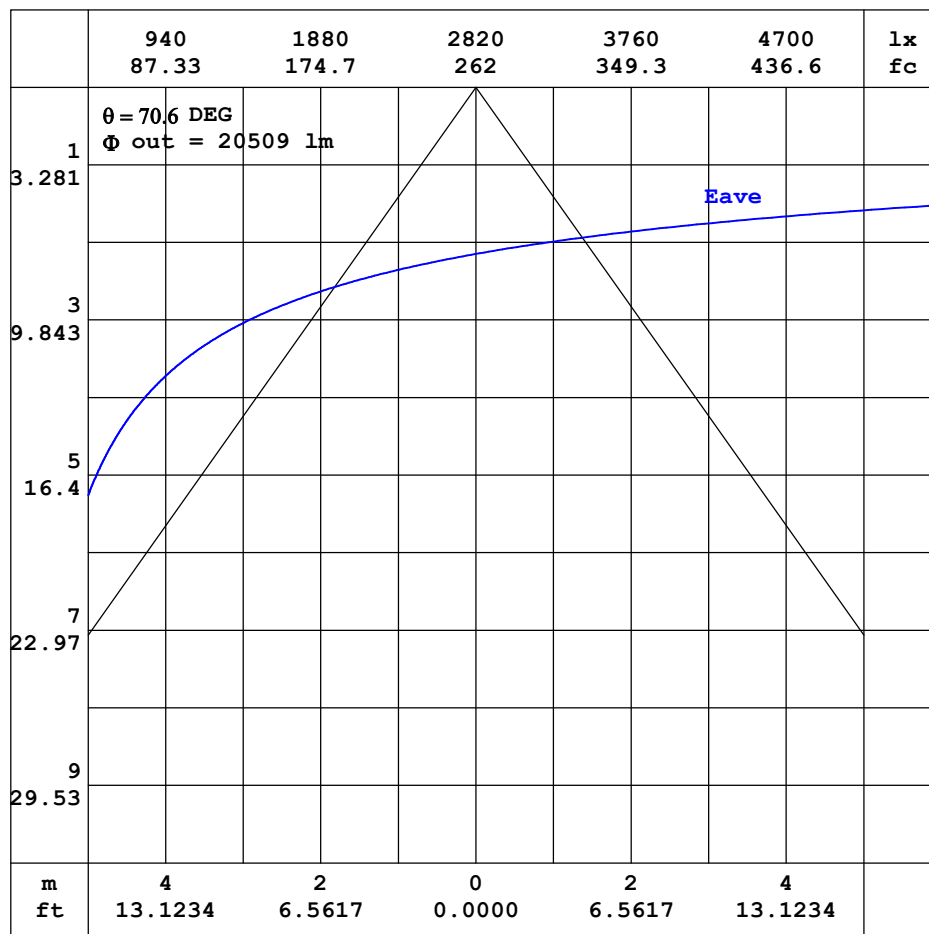


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

AAI CURVES

Test:U:218.28V I:0.9541A P:201.98W PF:0.9699 Freq:49.99Hz Lamp Flux:33179.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



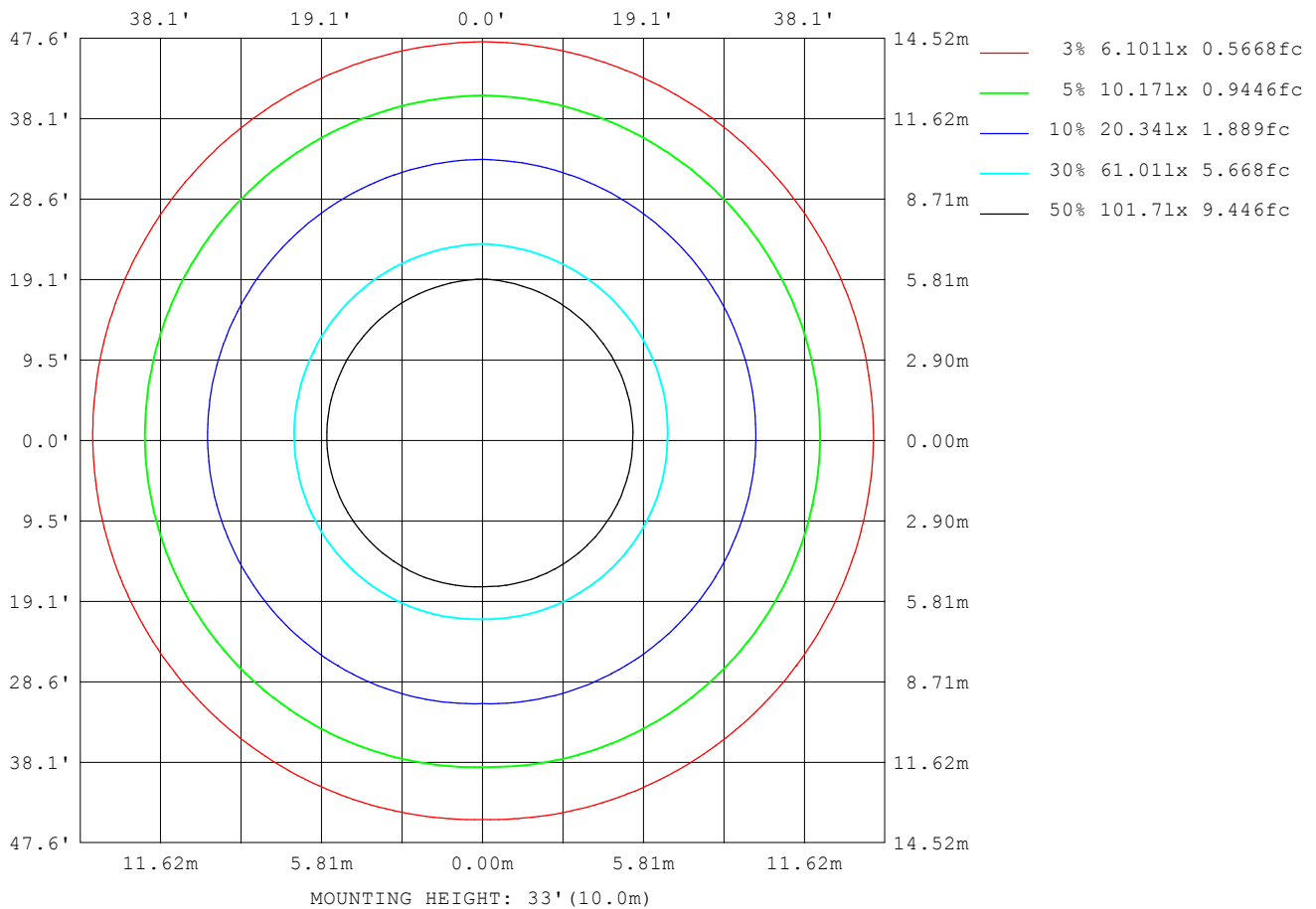
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:218.28V I:0.9541A P:201.98W PF:0.9699 Freq:49.99Hz Lamp Flux:33179.4x1 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:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:218.28V I:0.9541A P:201.98W PF:0.9699 Freq:49.99Hz Lamp Flux:33179.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

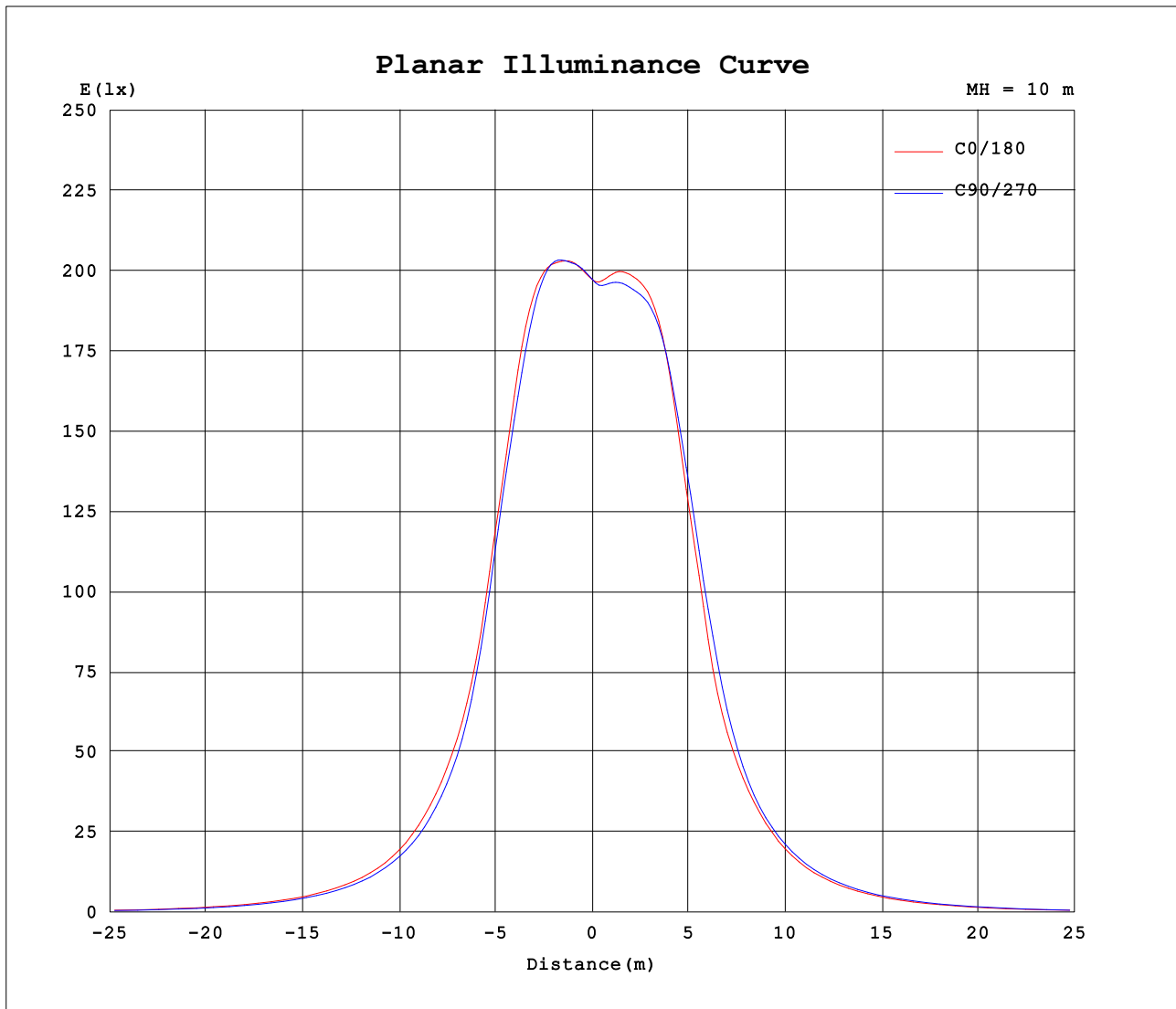
AvgL	cd/m2
L_0~180 (65) av	37304
L_0~180 (75) av	26970
L_0~180 (85) av	25710
L_90~270 (65) av	37162
L_90~270 (75) av	27101
L_90~270 (85) av	25008
L_45 (65) av	37183
L_45 (75) av	27009
L_45 (85) av	25195

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_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: DAMIN
Test Date: 2024-11-06

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.28V I:0.9541A P:201.98W PF:0.9699 Freq:49.99Hz Lamp Flux:33179.4x1 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	1973	1973	1973	1973															
5	2045	2044	2006	1983															
10	2123	2129	2087	2047															
15	2195	2166	2165	2126															
20	2125	2027	2164	2155															
25	1795	1730	1894	1970															
30	1342	1265	1468	1592															
35	985	889	1022	1148															
40	744	657	763	812															
45	550	491	560	601															
50	412	369	413	445															
55	309	278	306	332															
60	229	202	224	246															
65	160	138	156	176															
70	110	95.4	107	118															
75	71.6	61.7	68.0	78.6															
80	44.9	37.5	41.6	48.7															
85	23.5	15.8	21.3	27.8															
90	9.63	9.28	6.44	9.23															
95	8.83	8.60	6.71	6.48															
100	8.34	8.20	7.16	6.90															
105	8.13	8.09	7.67	7.39															
110	8.21	8.30	8.34	8.02															
115	8.62	8.88	9.23	8.86															
120	9.44	9.83	10.3	9.88															
125	10.6	11.1	11.5	11.1															
130	12.1	12.5	12.7	12.3															
135	13.6	14.0	14.0	13.6															
140	15.0	15.5	15.3	14.9															
145	16.5	17.0	16.7	16.3															
150	17.9	18.4	18.1	17.7															
155	19.4	19.9	19.4	19.1															
160	21.0	21.5	20.7	20.4															
165	22.5	22.9	21.8	21.6															
170	23.6	23.9	22.9	22.7															
175	24.1	24.3	23.6	23.5															
180	24.0	24.2	24.2	24.1															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-06

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks: