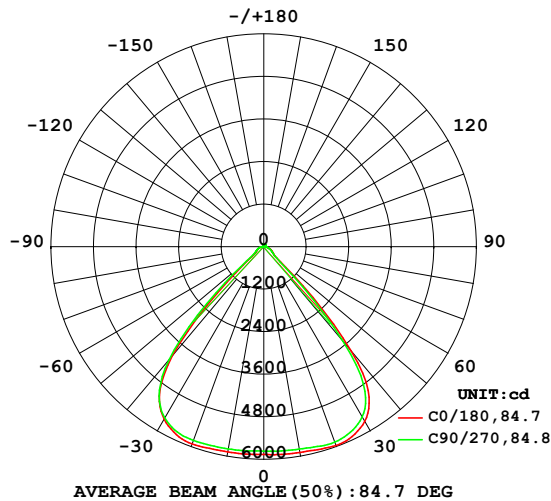


LUMINAIRE PHOTOMETRIC TEST REPORT

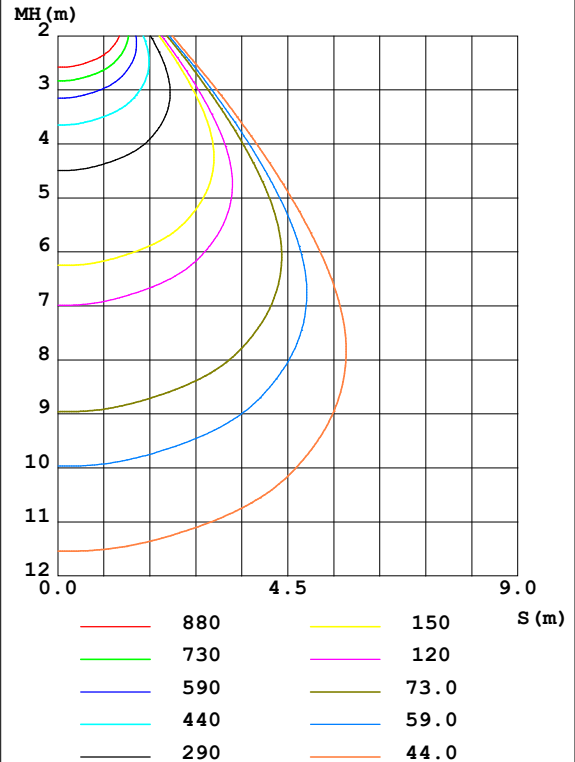
Test:U:218.59V I:0.4369A P:94.498W PF:0.9895 Freq:49.99Hz Lamp Flux:10356.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 109.59 lm/W			
MODEL		Imax(cd)	5968	S/MH(C0/180)	1.25
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	10356	η UP,DN(C0-180)	1.1,47.8
NOMINAL FLUX(lm)	10356.4	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.2,49.9
LAMPS INSIDE	1	η up(%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.0	η down(%)	97.7	CIBSE SHR MAX	1.25

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:2024-11-05

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:

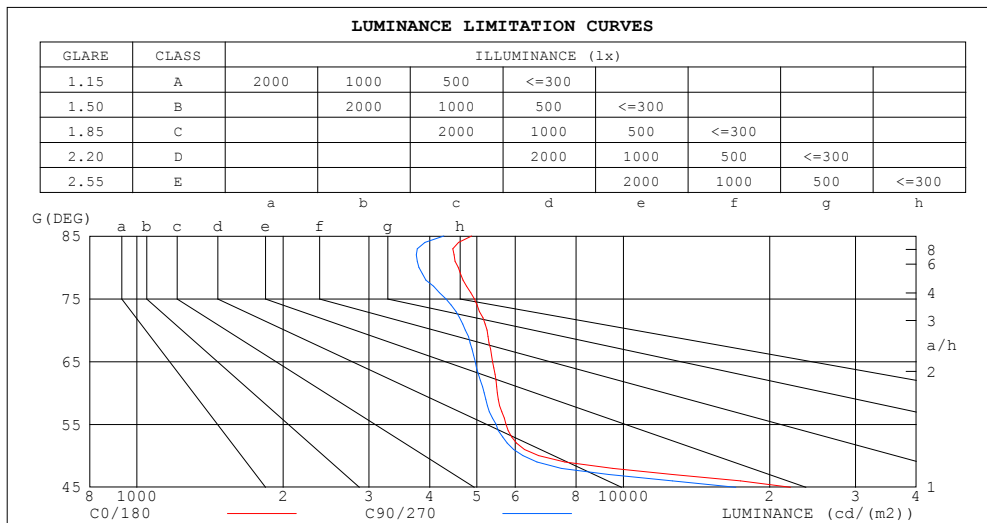
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	5894	5795	5876	5792					0- 10	556.7	556.7	5.38, 5.38
20	5965	5866	5921	5815					10- 20	1664	2220	21.4, 21.4
30	5692	5551	5621	5584					20- 30	2681	4901	47.3, 47.3
40	3842	3480	4002	4154					30- 40	3112	8013	77.4, 77.4
50	430.2	400.0	443.9	645.4					40- 50	1426	9439	91.1, 91.1
60	275.6	259.0	234.9	252.2					50- 60	290.0	9729	93.9, 93.9
70	179.6	162.0	157.2	170.0					60- 70	208.6	9938	96, 96
80	79.55	65.95	75.14	87.61					70- 80	128.8	10066	97.2, 97.2
90	28.28	26.39	22.09	24.02					80- 90	48.91	10115	97.7, 97.7
100	22.52	22.37	21.97	21.11					90-100	24.10	10139	97.9, 97.9
110	25.50	25.79	27.99	26.85					100-110	25.36	10165	98.1, 98.1
120	31.60	31.96	34.31	32.99					110-120	29.31	10194	98.4, 98.4
130	39.42	39.94	43.03	41.00					120-130	32.60	10227	98.7, 98.7
140	50.03	50.40	55.54	53.03					130-140	35.95	10263	99.1, 99.1
150	58.69	58.67	64.18	61.53					140-150	35.52	10298	99.4, 99.4
160	67.26	67.13	73.10	70.02					150-160	29.94	10328	99.7, 99.7
170	75.42	75.19	81.70	78.91					160-170	20.81	10349	99.9, 99.9
180	80.68	80.22	81.84	79.43					170-180	7.560	10356	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

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:218.59V I:0.4369A P:94.498W PF:0.9895 Freq:49.99Hz Lamp Flux:10356.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4880	4277
80	4581	3798
75	4942	4317
70	5251	4735
65	5387	4962
60	5511	5179
55	5739	5476
50	6693	6223
45	22078	17031

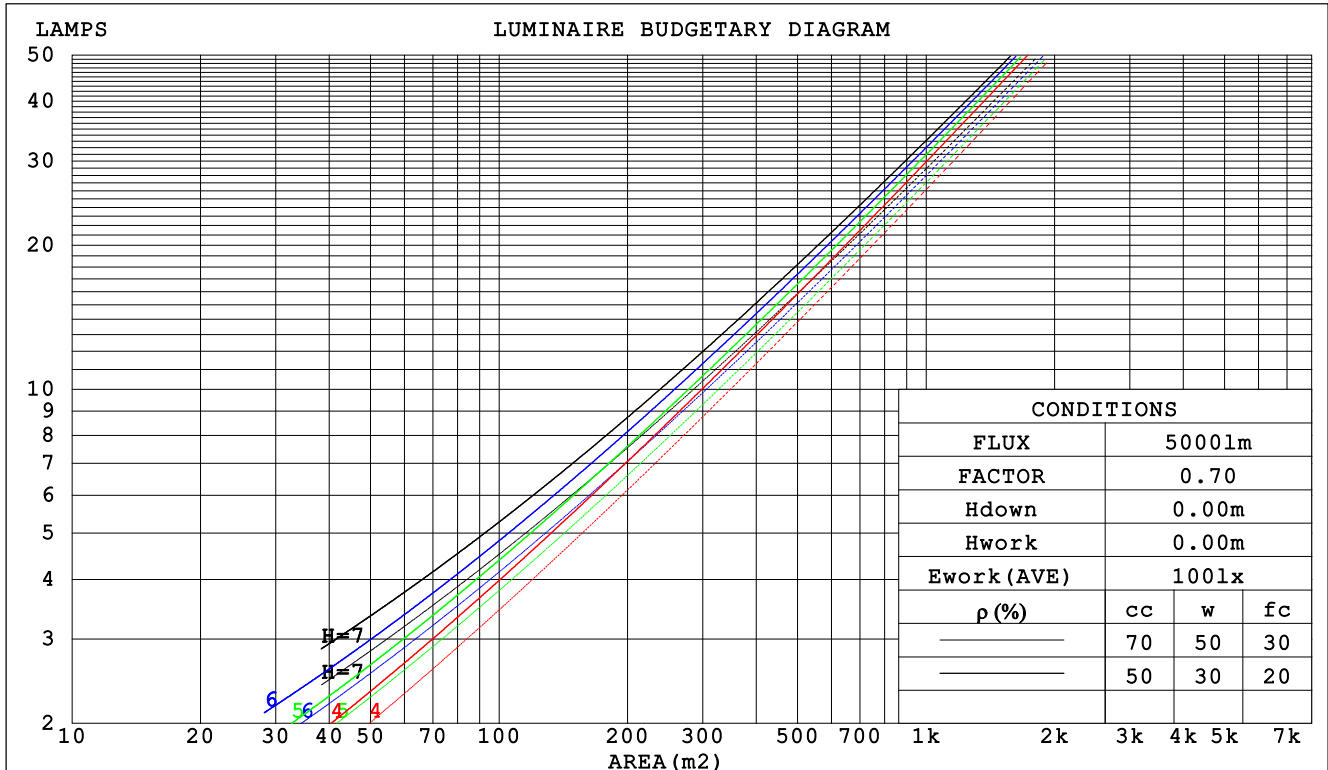
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

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:218.59V I:0.4369A P:94.498W PF:0.9895 Freq:49.99Hz Lamp Flux:10356.4x1 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															



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

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:218.59V I:0.4369A P:94.498W PF:0.9895 Freq:49.99Hz Lamp Flux:10356.4x1 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	.216	.123	.039	.208	.119	.038	.194	.111	.036	.181	.105	.034	.169	.098	.032	
2.0	.207	.113	.035	.201	.110	.034	.188	.105	.033	.177	.099	.031	.167	.094	.030	
3.0	.197	.105	.031	.191	.102	.031	.181	.098	.030	.171	.094	.029	.162	.090	.028	
4.0	.187	.097	.029	.182	.095	.028	.173	.091	.027	.164	.088	.027	.156	.085	.026	
5.0	.177	.090	.026	.173	.089	.026	.165	.086	.025	.157	.083	.025	.150	.080	.024	
6.0	.168	.084	.024	.165	.083	.024	.157	.081	.023	.150	.078	.023	.144	.076	.022	
7.0	.160	.079	.022	.157	.078	.022	.150	.076	.022	.144	.074	.021	.138	.072	.021	
8.0	.153	.075	.021	.149	.074	.021	.143	.072	.020	.138	.070	.020	.132	.068	.020	
9.0	.145	.070	.020	.143	.070	.020	.137	.068	.019	.132	.066	.019	.127	.065	.019	
10.0	.139	.067	.018	.136	.066	.018	.131	.064	.018	.127	.063	.018	.122	.061	.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	.192	.175	.160	.164	.150	.137	.112	.103	.095	.065	.060	.055	.021	.019	.018	
2.0	.179	.150	.126	.153	.129	.109	.105	.090	.076	.061	.052	.045	.019	.017	.015	
3.0	.169	.132	.103	.144	.114	.089	.099	.079	.062	.057	.046	.037	.018	.015	.012	
4.0	.160	.118	.086	.137	.102	.075	.094	.071	.052	.055	.042	.031	.018	.014	.010	
5.0	.152	.107	.073	.131	.092	.064	.090	.065	.045	.052	.038	.027	.017	.012	.009	
6.0	.145	.098	.064	.125	.085	.056	.086	.059	.039	.050	.035	.023	.016	.011	.008	
7.0	.139	.091	.057	.120	.079	.050	.083	.055	.035	.048	.032	.021	.016	.011	.007	
8.0	.134	.085	.051	.115	.074	.045	.080	.052	.032	.046	.030	.019	.015	.010	.006	
9.0	.129	.080	.047	.111	.069	.041	.077	.049	.029	.045	.029	.017	.014	.009	.006	
10.0	.124	.076	.044	.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:DAMIN
 Test Date:2024-11-05

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:218.59V I:0.4369A P:94.498W PF:0.9895 Freq:49.99Hz Lamp Flux:10356.4x1 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	12.1	13.2	12.4	13.5	13.7	11.8	12.9	12.1	13.1	13.4
	3H	12.2	13.2	12.5	13.5	13.7	11.8	12.9	12.2	13.1	13.4
	4H	12.2	13.2	12.6	13.5	13.8	11.9	12.9	12.2	13.1	13.4
	6H	12.3	13.2	12.6	13.5	13.8	11.9	12.8	12.2	13.1	13.4
	8H	12.3	13.2	12.6	13.5	13.8	11.9	12.8	12.3	13.1	13.4
	12H	12.3	13.1	12.6	13.4	13.8	11.9	12.7	12.3	13.0	13.4
4H	2H	11.9	12.9	12.3	13.2	13.5	11.6	12.6	11.9	12.9	13.2
	3H	12.1	13.0	12.5	13.3	13.6	11.8	12.6	12.2	13.0	13.3
	4H	12.2	13.0	12.6	13.3	13.7	11.9	12.7	12.3	13.0	13.4
	6H	12.4	13.0	12.8	13.4	13.8	12.0	12.7	12.4	13.0	13.4
	8H	12.4	13.0	12.8	13.4	13.8	12.0	12.6	12.4	13.0	13.4
	12H	12.4	13.0	12.9	13.4	13.9	12.0	12.6	12.5	13.0	13.5
8H	4H	12.2	12.8	12.6	13.2	13.6	11.9	12.5	12.3	12.9	13.3
	6H	12.4	12.9	12.9	13.3	13.8	12.0	12.5	12.5	13.0	13.4
	8H	12.5	12.9	13.0	13.4	13.9	12.1	12.5	12.6	13.0	13.5
	12H	12.6	12.9	13.1	13.4	13.9	12.2	12.5	12.7	13.0	13.6
12H	4H	12.2	12.7	12.6	13.2	13.6	11.8	12.4	12.3	12.8	13.3
	6H	12.4	12.8	12.9	13.3	13.8	12.0	12.5	12.5	12.9	13.4
	8H	12.5	12.9	13.0	13.3	13.9	12.1	12.5	12.6	13.0	13.5
Variations with the observer position at spacings:											
S = 1.0H	+ 2.0 / - 4.0					+ 2.0 / - 4.1					
1.5H	+ 4.1 / - 4.1					+ 4.1 / - 4.1					
2.0H	+ 4.2 / - 1.0					+ 3.3 / - 0.8					

CIE Pub.117, 10356 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 8.1$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

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:218.59V I:0.4369A P:94.498W PF:0.9895 Freq:49.99Hz Lamp Flux:10356.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

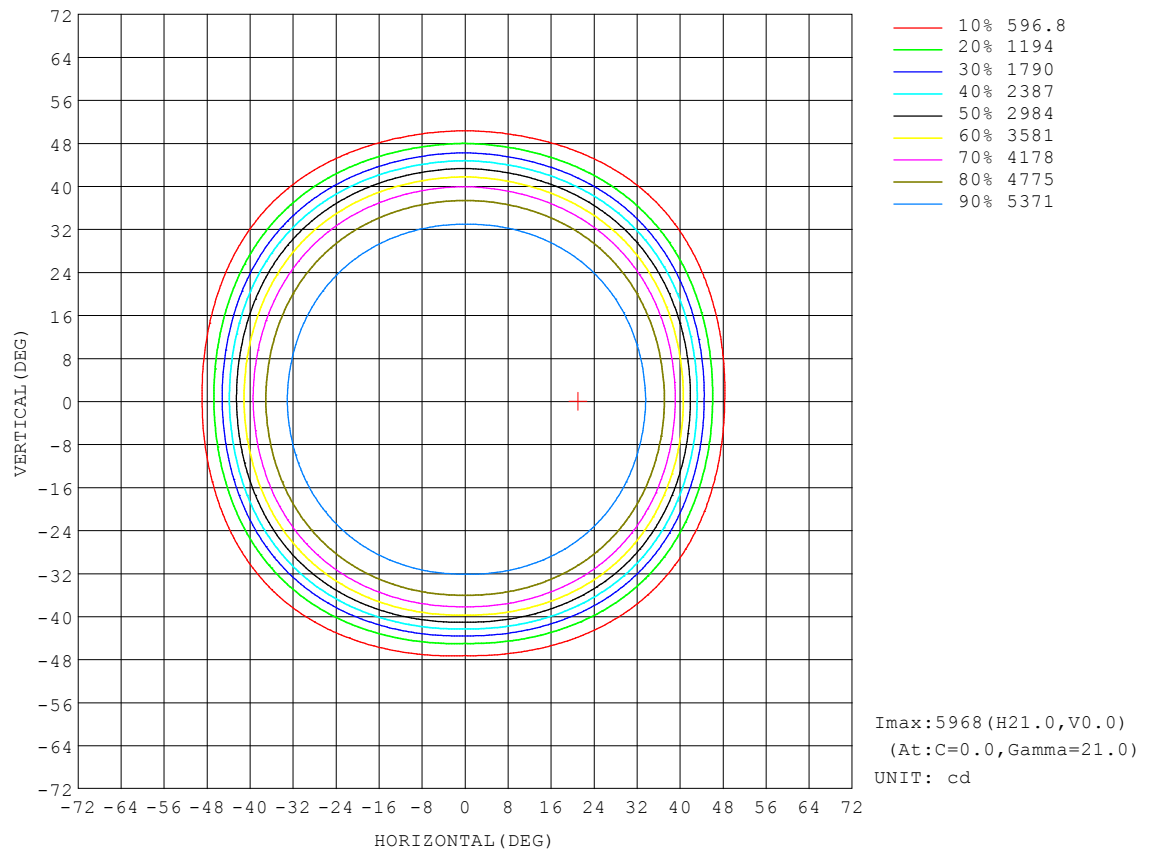
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	77	70	65	77	69	65	76	69	64	60
0.80	86	79	74	85	78	74	84	77	73	68
1.00	92	85	80	91	84	80	89	84	79	74
1.25	97	90	86	96	90	86	93	88	85	79
1.50	101	94	90	99	94	89	96	92	88	83
2.00	104	99	95	103	98	94	100	96	92	86
2.50	107	102	98	105	100	97	101	98	95	88
3.00	109	104	101	107	103	100	103	100	97	90
4.00	111	108	105	109	106	103	105	102	100	92
5.00	113	110	107	110	108	105	106	104	102	93
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: 2024-11-05

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:218.59V I:0.4369A P:94.498W PF:0.9895 Freq:49.99Hz Lamp Flux:10356.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

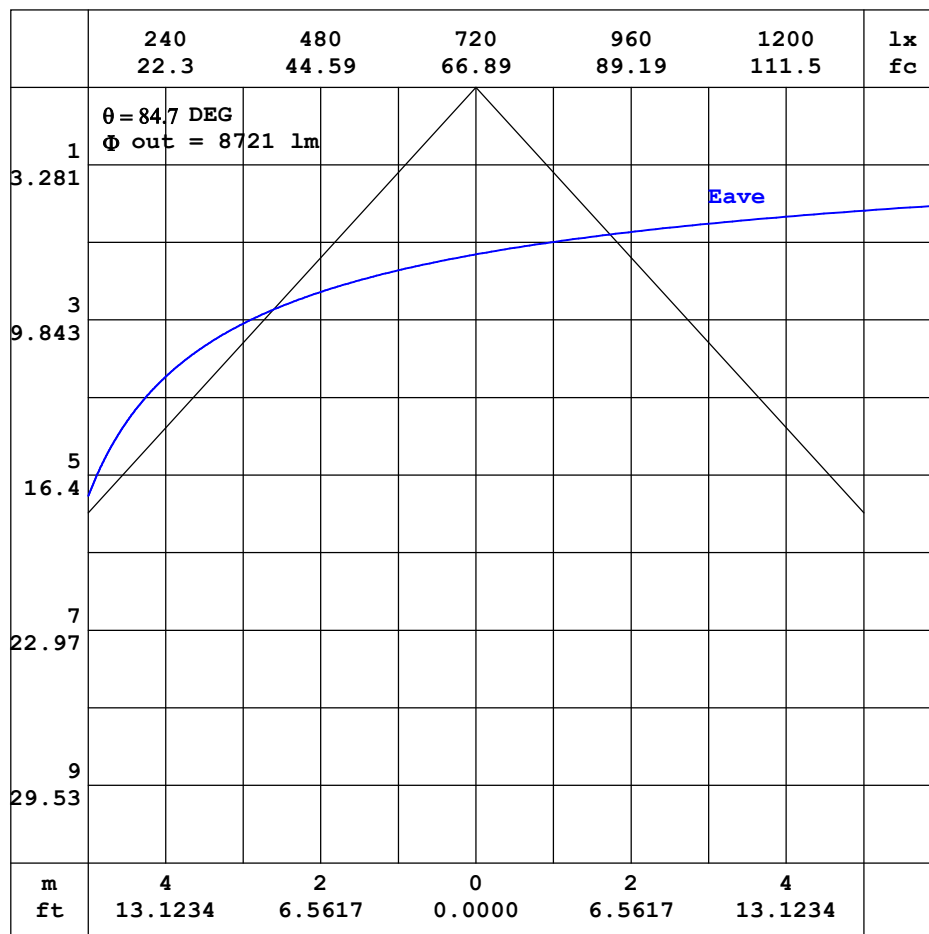


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

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:218.59V I:0.4369A P:94.498W PF:0.9895 Freq:49.99Hz Lamp Flux:10356.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



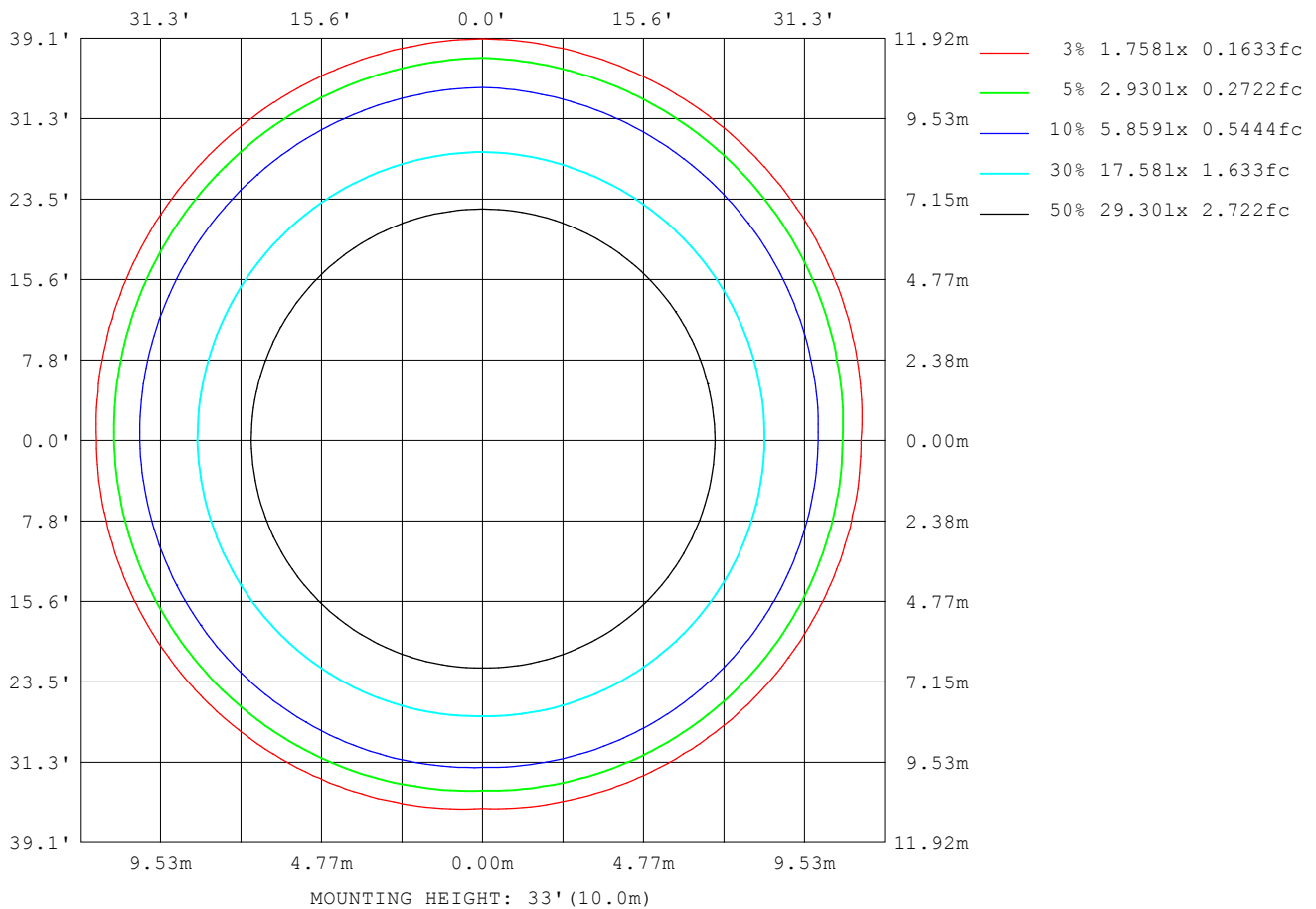
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-05

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:218.59V I:0.4369A P:94.498W PF:0.9895 Freq:49.99Hz Lamp Flux:10356.4x1 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:2024-11-05

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:218.59V I:0.4369A P:94.498W PF:0.9895 Freq:49.99Hz Lamp Flux:10356.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

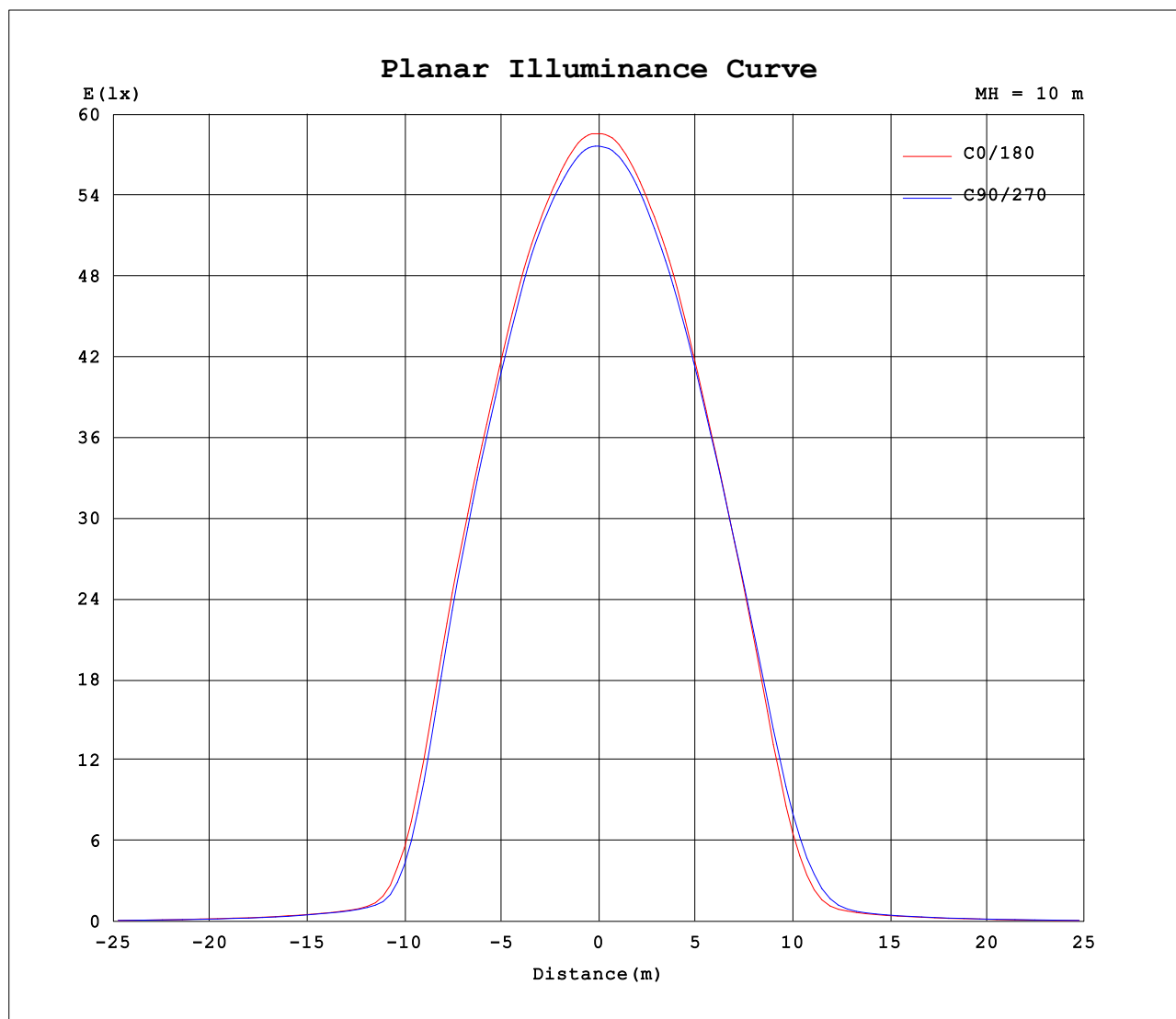
AvgL	cd/m2
L_0~180 (65) av	5003
L_0~180 (75) av	4751
L_0~180 (85) av	4664
L_90~270 (65) av	4965
L_90~270 (75) av	4700
L_90~270 (85) av	4761
L_45 (65) av	4955
L_45 (75) av	4707
L_45 (85) av	4711

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

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: 2024-11-05

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:218.59V I:0.4369A P:94.498W PF:0.9895 Freq:49.99Hz Lamp Flux:10356.4x1 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	5859	5767	5859	5767															
5	5884	5784	5873	5779															
10	5894	5795	5876	5792															
15	5924	5836	5892	5801															
20	5965	5866	5921	5815															
25	5907	5777	5844	5770															
30	5692	5551	5621	5584															
35	5180	4983	5137	5146															
40	3842	3480	4002	4154															
45	1561	1204	1868	2282															
50	430	400	444	645															
55	329	314	286	312															
60	276	259	235	252															
65	228	210	195	210															
70	180	162	157	170															
75	128	112	118	132															
80	79.5	65.9	75.1	87.6															
85	42.5	37.3	38.8	45.7															
90	28.3	26.4	22.1	24.0															
95	24.0	23.4	19.6	19.0															
100	22.5	22.4	22.0	21.1															
105	23.3	23.4	24.9	23.8															
110	25.5	25.8	28.0	26.9															
115	28.3	28.7	31.2	30.0															
120	31.6	32.0	34.3	33.0															
125	35.2	35.6	37.8	36.3															
130	39.4	39.9	43.0	41.0															
135	44.5	45.2	49.6	47.2															
140	50.0	50.4	55.5	53.0															
145	54.6	54.7	60.2	57.7															
150	58.7	58.7	64.2	61.5															
155	63.0	62.9	68.3	65.5															
160	67.3	67.1	73.1	70.0															
165	71.5	71.3	78.2	75.1															
170	75.4	75.2	81.7	78.9															
175	78.5	78.1	82.6	80.1															
180	80.7	80.2	81.8	79.4															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-05

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: