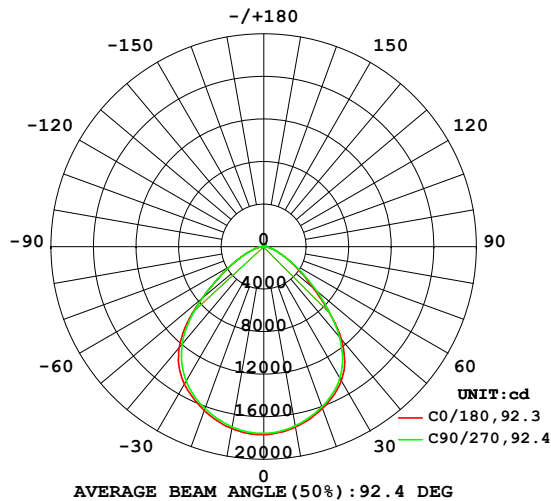


LUMINAIRE PHOTOMETRIC TEST REPORT

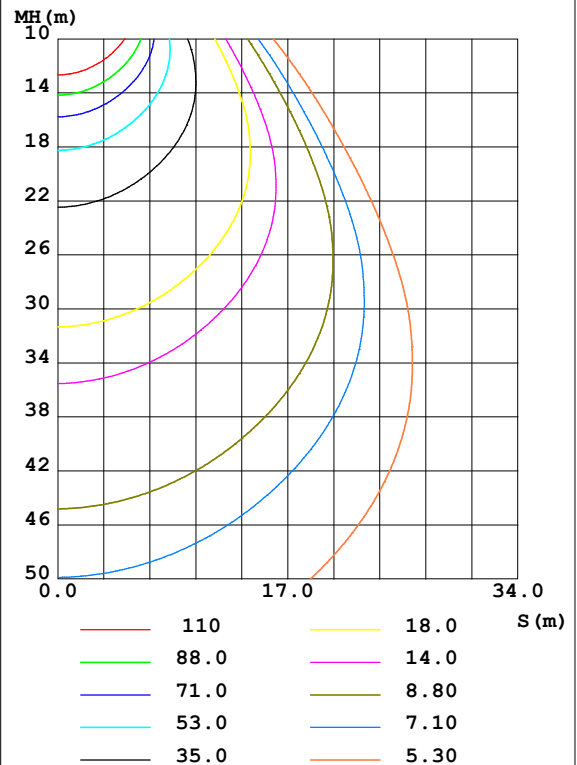
Test:U:218.26V I:0.9408A P:197.41W PF:0.9613 Freq:49.99Hz Lamp Flux:37764.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 191.30 lm/W			
MODEL		I _{max} (cd)	17672	S/MH (C0/180)	1.25
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	37765	η UP, DN (C0-180)	1.2, 47.0
NOMINAL FLUX (lm)	37764.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 50.8
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: DAMIN
Test Date: 2024-11-12

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	1722	1711	1737	1721					0- 10	1663	1663	4.4, 4.4
20	1618	1602	1640	1619					10- 20	4733	6396	16.9, 16.9
30	1457	1431	1492	1460					20- 30	7135	13531	35.8, 35.8
40	1134	1107	1236	1195					30- 40	8314	21845	57.8, 57.8
50	613.7	650.0	756.3	753.9					40- 50	7201	29046	76.9, 76.9
60	299.1	309.5	359.7	365.9					50- 60	4423	33469	88.6, 88.6
70	130.0	131.0	153.1	151.8					60- 70	2231	35700	94.5, 94.5
80	42.43	44.28	54.53	54.27					70- 80	957.5	36658	97.1, 97.1
90	11.52	11.65	6.935	6.969					80- 90	241.3	36899	97.7, 97.7
100	10.38	10.48	8.076	8.129					90-100	99.94	36999	98, 98
110	10.92	10.95	9.886	9.975					100-110	103.2	37102	98.2, 98.2
120	12.53	12.52	12.19	12.34					110-120	112.7	37215	98.5, 98.5
130	14.75	14.71	14.90	15.08					120-130	121.7	37337	98.9, 98.9
140	17.23	17.17	17.69	17.87					130-140	125.0	37462	99.2, 99.2
150	19.63	19.59	20.20	20.37					140-150	117.3	37579	99.5, 99.5
160	21.91	21.89	22.43	22.48					150-160	97.34	37676	99.8, 99.8
170	23.75	23.77	24.03	23.97					160-170	65.18	37742	99.9, 99.9
180	24.52	24.59	24.63	24.50					170-180	23.11	37765	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 25758 lm

%lum = 68.2%

%lamp = 68.2%

Conical surface Flux(120deg): 33469 lm

%lum = 88.6%

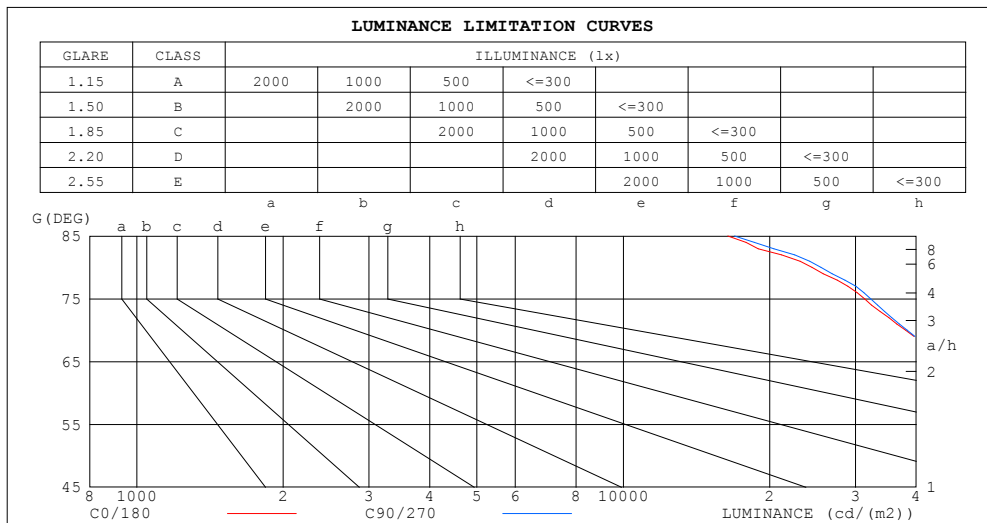
%lamp = 88.6%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-12

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:218.26V I:0.9408A P:197.41W PF:0.9613 Freq:49.99Hz Lamp Flux:37764.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	16408	16923
80	24435	25499
75	31312	32212
70	37999	38313
65	47449	47732
60	59811	61892
55	75464	79827
50	95480	101128
45	122629	123737

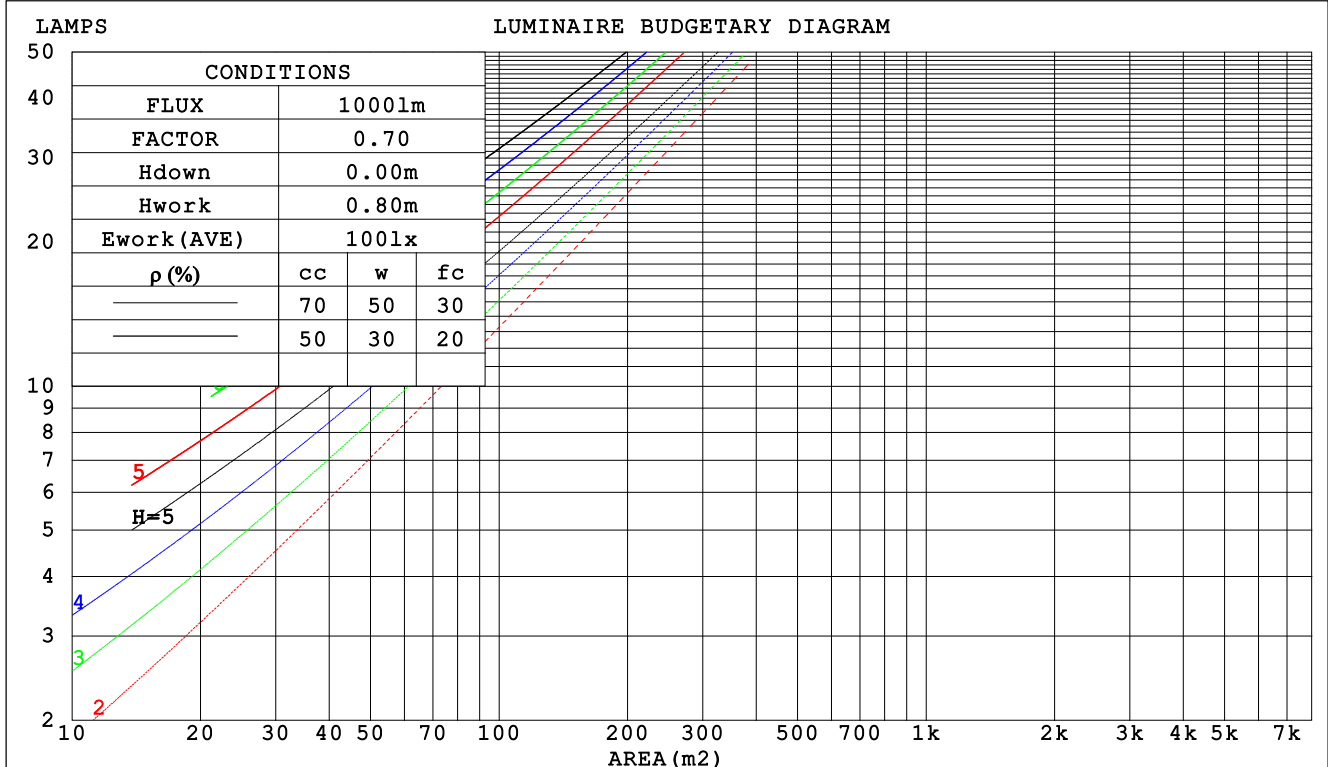
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-12

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:218.26V I:0.9408A P:197.41W PF:0.9613 Freq:49.99Hz Lamp Flux:37764.7x1 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	1.06	1.03	.00	1.04	1.01	.98	.99	.97	.94	.95	.93	.91	.91	.90	.88	.86
2.0	.95	.89	.85	.93	.88	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.85	.78	.73	.84	.77	.72	.80	.75	.70	.77	.73	.69	.75	.71	.68	.65
4.0	.77	.69	.63	.75	.68	.63	.73	.66	.62	.70	.65	.61	.68	.63	.60	.58
5.0	.69	.61	.56	.68	.61	.55	.66	.59	.54	.64	.58	.54	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.55	.49	.60	.53	.48	.58	.52	.48	.57	.51	.47	.45
7.0	.58	.50	.44	.57	.49	.44	.55	.48	.43	.54	.48	.43	.52	.47	.43	.41
8.0	.53	.45	.40	.52	.45	.40	.51	.44	.39	.49	.43	.39	.48	.43	.39	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.35	.45	.39	.35	.33
10.0	.45	.38	.33	.45	.38	.33	.43	.37	.33	.42	.37	.32	.41	.36	.32	.30



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ 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:218.26V I:0.9408A P:197.41W PF:0.9613 Freq:49.99Hz Lamp Flux:37764.7x1 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	.251	.143	.045	.243	.139	.044	.229	.131	.042	.216	.125	.040	.204	.118	.038	
2.0	.242	.133	.041	.235	.130	.040	.223	.124	.039	.211	.119	.037	.201	.114	.036	
3.0	.229	.122	.037	.223	.120	.036	.212	.115	.035	.202	.111	.034	.193	.107	.033	
4.0	.216	.112	.033	.210	.110	.033	.201	.106	.032	.192	.103	.031	.183	.100	.030	
5.0	.203	.103	.030	.198	.102	.030	.189	.099	.029	.181	.096	.028	.174	.093	.028	
6.0	.190	.095	.027	.186	.094	.027	.179	.092	.027	.171	.089	.026	.165	.087	.026	
7.0	.179	.089	.025	.176	.088	.025	.169	.085	.025	.162	.083	.024	.156	.081	.024	
8.0	.169	.083	.023	.166	.082	.023	.160	.080	.023	.154	.078	.022	.148	.076	.022	
9.0	.160	.077	.022	.157	.077	.021	.151	.075	.021	.146	.073	.021	.141	.072	.021	
10.0	.152	.073	.020	.149	.072	.020	.144	.070	.020	.139	.069	.020	.134	.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	.194	.174	.157	.166	.150	.135	.113	.103	.093	.065	.060	.054	.021	.019	.018	
2.0	.183	.150	.122	.157	.129	.105	.108	.089	.073	.062	.052	.043	.020	.017	.014	
3.0	.174	.132	.098	.150	.114	.085	.103	.079	.060	.059	.046	.035	.019	.015	.011	
4.0	.166	.118	.081	.143	.102	.071	.098	.071	.050	.057	.042	.029	.018	.014	.010	
5.0	.159	.107	.069	.137	.093	.060	.094	.065	.043	.055	.038	.025	.018	.012	.008	
6.0	.152	.099	.060	.131	.086	.053	.090	.060	.037	.052	.035	.022	.017	.012	.007	
7.0	.146	.092	.054	.126	.080	.047	.087	.056	.033	.050	.033	.020	.016	.011	.007	
8.0	.140	.086	.049	.121	.075	.043	.084	.052	.030	.049	.031	.018	.016	.010	.006	
9.0	.135	.081	.045	.116	.070	.039	.080	.050	.028	.047	.029	.017	.015	.010	.006	
10.0	.130	.077	.042	.112	.067	.037	.078	.047	.026	.045	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-12

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:218.26V I:0.9408A P:197.41W PF:0.9613 Freq:49.99Hz Lamp Flux:37764.7x1 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	14.5	15.8	14.7	16.0	16.2	14.6	15.9	14.8	16.1	16.3
	3H	14.9	16.0	15.2	16.3	16.6	14.9	16.1	15.3	16.4	16.7
	4H	15.0	16.1	15.3	16.4	16.7	15.1	16.2	15.4	16.5	16.8
	6H	15.0	16.1	15.4	16.4	16.7	15.1	16.2	15.5	16.5	16.8
	8H	15.0	16.0	15.4	16.4	16.7	15.1	16.1	15.5	16.5	16.8
	12H	15.0	16.0	15.4	16.3	16.6	15.1	16.1	15.5	16.4	16.7
4H	2H	14.6	15.7	14.9	16.0	16.3	14.7	15.8	15.0	16.1	16.4
	3H	15.1	16.1	15.5	16.4	16.8	15.2	16.2	15.6	16.5	16.8
	4H	15.3	16.2	15.7	16.6	16.9	15.4	16.3	15.8	16.6	17.0
	6H	15.5	16.2	15.9	16.6	17.0	15.5	16.3	16.0	16.7	17.1
	8H	15.5	16.2	15.9	16.6	17.0	15.6	16.3	16.0	16.7	17.1
	12H	15.5	16.1	15.9	16.5	17.0	15.6	16.2	16.0	16.6	17.1
8H	4H	15.4	16.1	15.8	16.5	16.9	15.4	16.1	15.9	16.5	17.0
	6H	15.5	16.1	16.0	16.6	17.0	15.6	16.2	16.1	16.7	17.1
	8H	15.6	16.1	16.1	16.6	17.1	15.7	16.2	16.2	16.7	17.2
	12H	15.6	16.1	16.1	16.5	17.1	15.7	16.1	16.2	16.6	17.2
12H	4H	15.3	16.0	15.8	16.4	16.8	15.4	16.1	15.8	16.5	16.9
	6H	15.5	16.1	16.0	16.5	17.0	15.6	16.1	16.1	16.6	17.1
	8H	15.6	16.0	16.1	16.5	17.0	15.7	16.1	16.2	16.6	17.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.8 / - 1.0					+ 0.8 / - 0.9					
1.5H	+ 0.5 / - 0.6					+ 0.4 / - 0.5					
2.0H	+ 1.7 / - 1.4					+ 1.6 / - 1.5					

CIE Pub.117, 37765 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 12.6)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-12

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:218.26V I:0.9408A P:197.41W PF:0.9613 Freq:49.99Hz Lamp Flux:37764.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

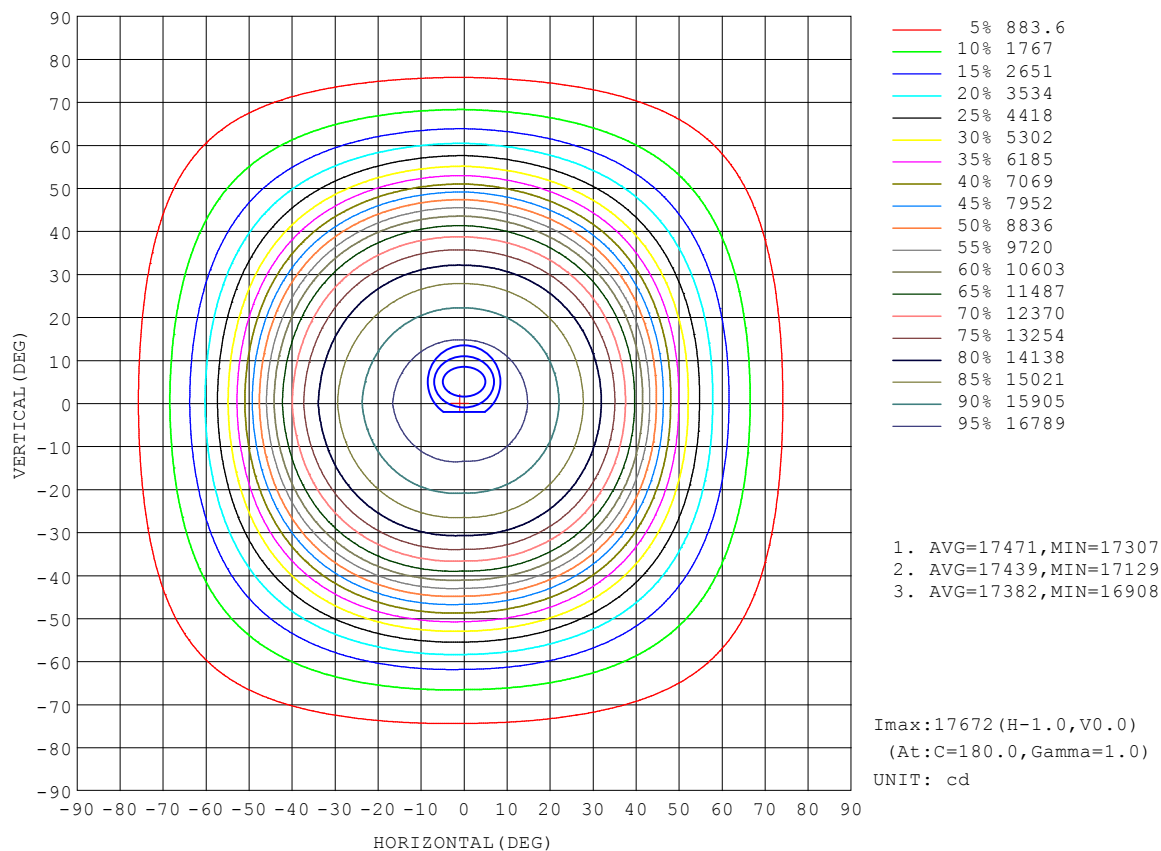
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	49	64	55	49	63	54	48	43
0.80	75	65	59	74	65	59	72	64	58	52
1.00	83	74	68	82	73	67	80	74	67	60
1.25	90	81	75	88	80	75	85	79	74	67
1.50	94	86	80	92	85	80	89	83	78	72
2.00	100	93	88	98	91	87	94	89	85	78
2.50	103	96	92	101	95	90	97	92	88	80
3.00	105	100	95	103	98	94	99	95	92	83
4.00	109	104	100	106	102	99	102	98	96	87
5.00	110	106	103	108	104	101	103	100	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: DAMIN
 Test Date: 2024-11-12

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:218.26V I:0.9408A P:197.41W PF:0.9613 Freq:49.99Hz Lamp Flux:37764.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

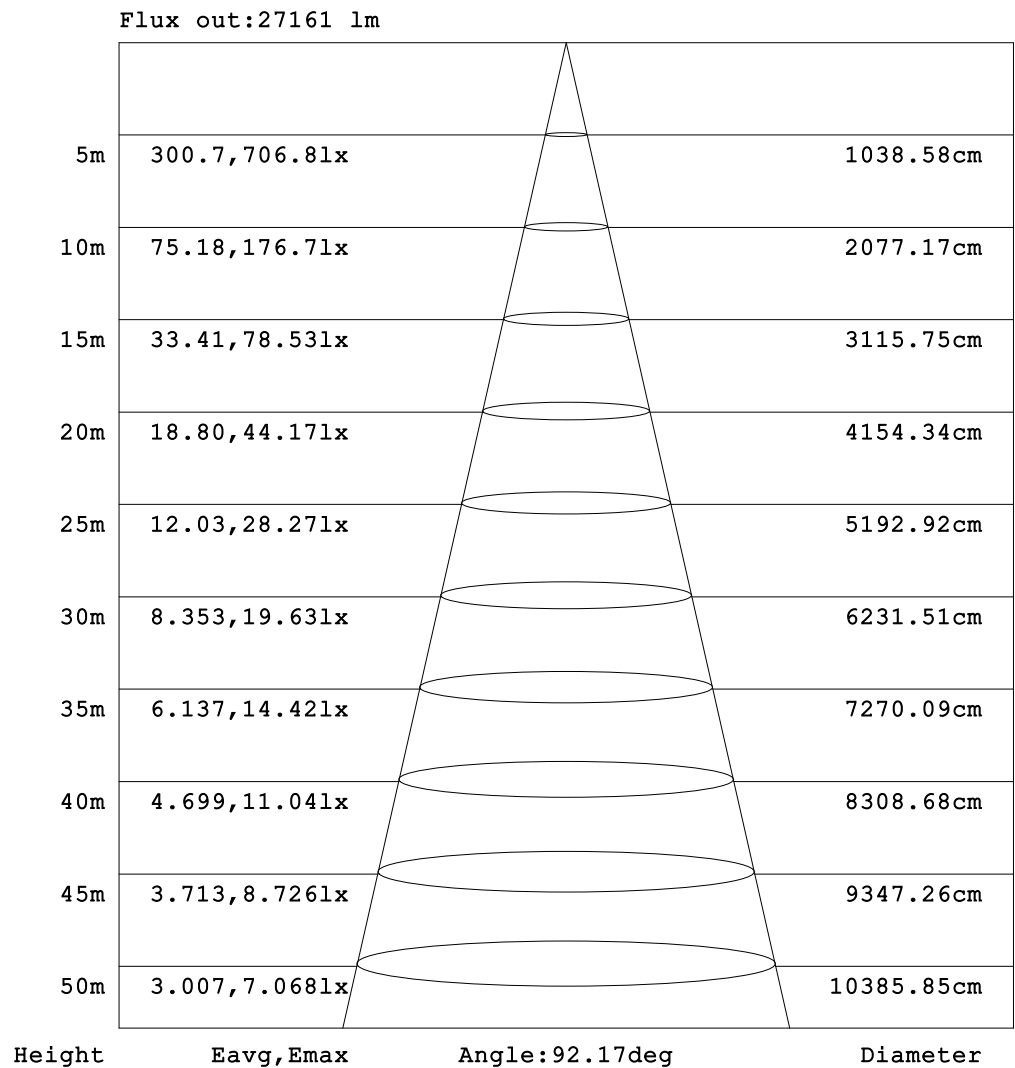


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-12

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 Figure

Test:U:218.26V I:0.9408A P:197.41W PF:0.9613 Freq:49.99Hz Lamp Flux:37764.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



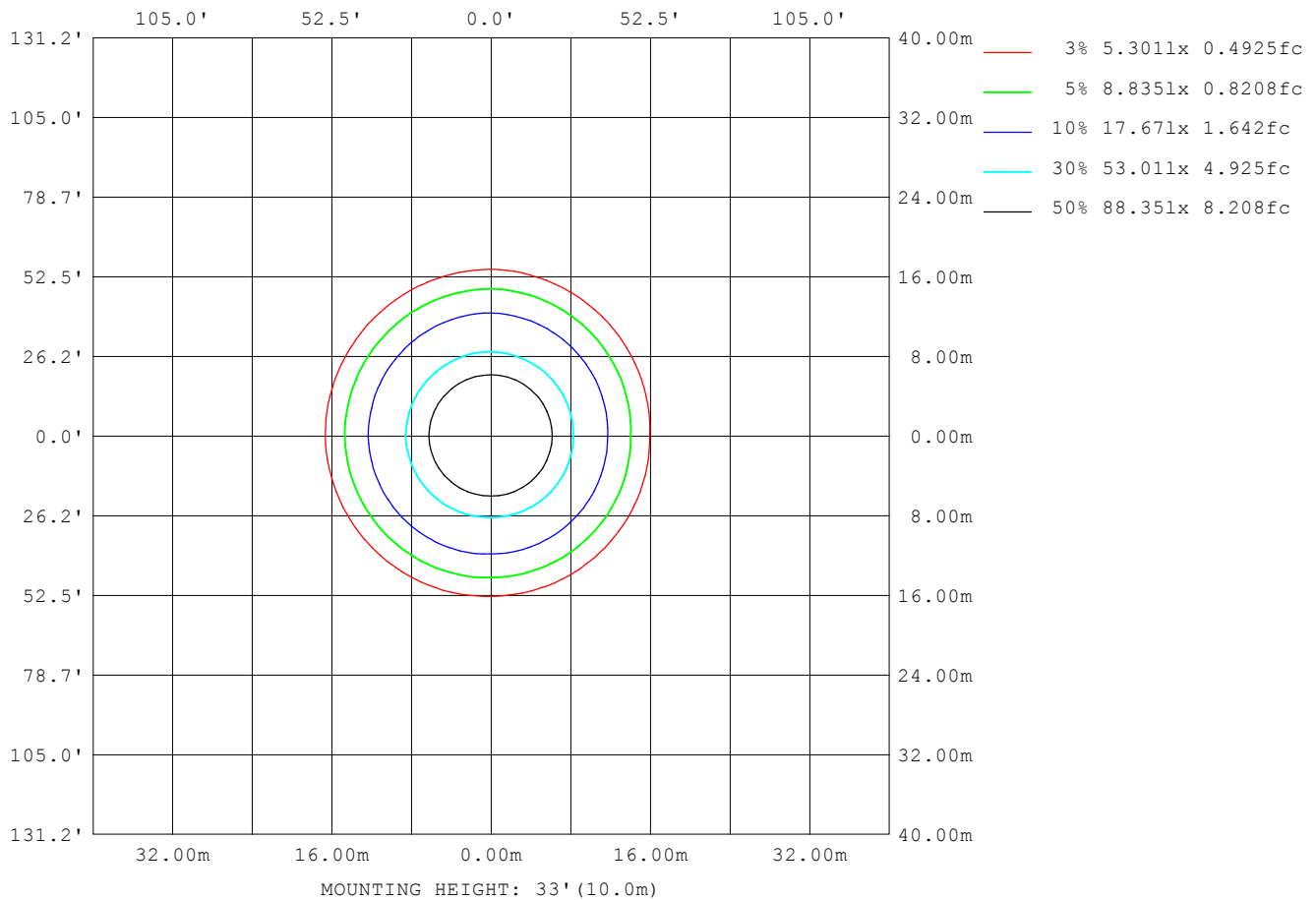
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-12

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:218.26V I:0.9408A P:197.41W PF:0.9613 Freq:49.99Hz Lamp Flux:37764.7x1 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:2024-11-12

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:218.26V I:0.9408A P:197.41W PF:0.9613 Freq:49.99Hz Lamp Flux:37764.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

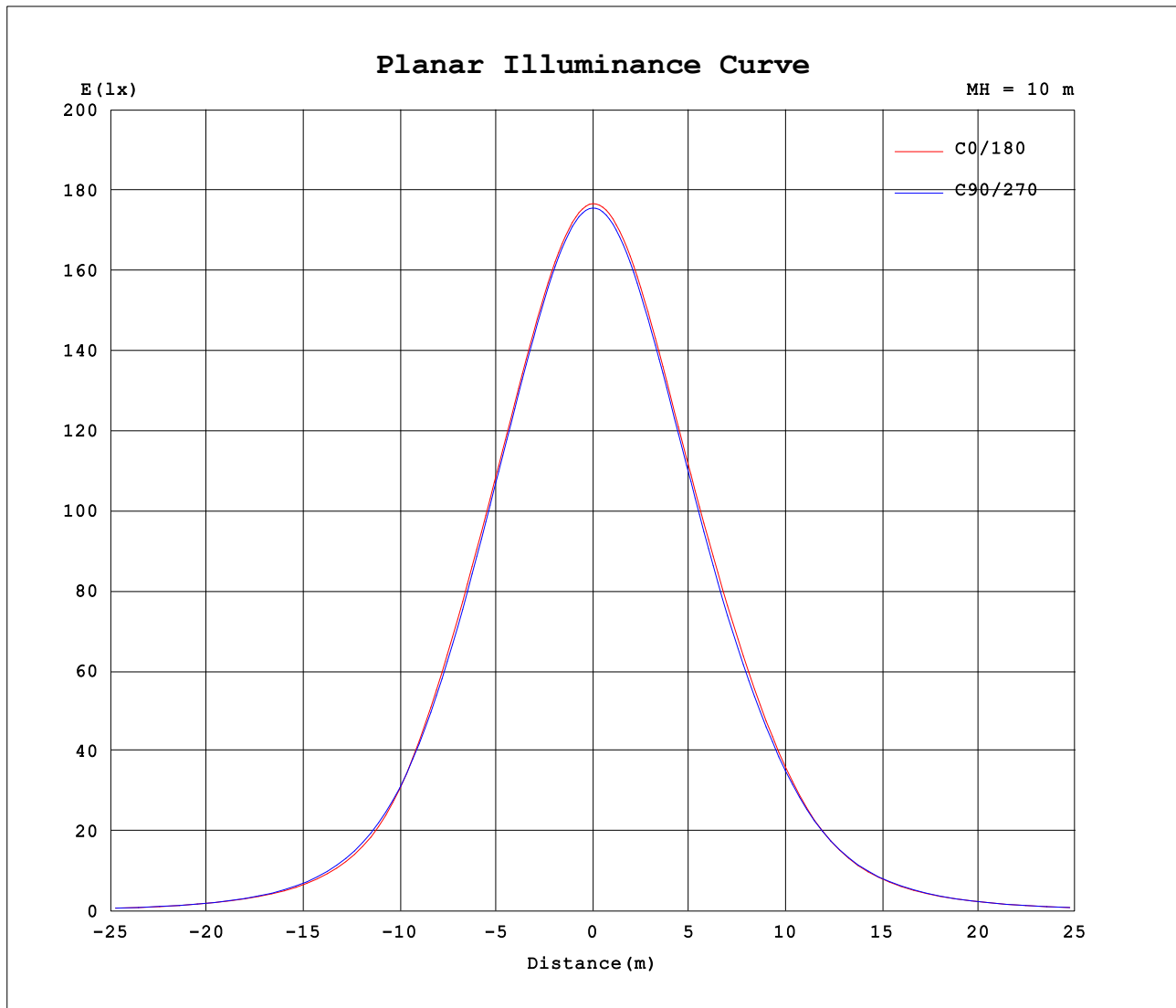
AvgL	cd/m2
L_0~180 (65) av	52110
L_0~180 (75) av	34010
L_0~180 (85) av	20609
L_90~270 (65) av	52131
L_90~270 (75) av	34480
L_90~270 (85) av	20486
L_45 (65) av	52414
L_45 (75) av	34472
L_45 (85) av	20795

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-12

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: 2024-11-12

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:218.26V I:0.9408A P:197.41W PF:0.9613 Freq:49.99Hz Lamp Flux:37764.7x1 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	1767	1756	1767	1756															
5	1753	1743	1761	1748															
10	1722	1711	1737	1721															
15	1676	1662	1695	1676															
20	1618	1602	1640	1619															
25	1548	1529	1572	1549															
30	1457	1431	1492	1460															
35	1328	1292	1388	1343															
40	1134	1107	1236	1195															
45	867	875	1021	994															
50	614	650	756	754															
55	433	458	525	534															
60	299	309	360	366															
65	201	202	240	239															
70	130	131	153	152															
75	81.0	83.4	95.0	95.1															
80	42.4	44.3	54.5	54.3															
85	14.3	14.7	21.6	21.0															
90	11.5	11.7	6.94	6.97															
95	10.7	10.8	7.40	7.45															
100	10.4	10.5	8.08	8.13															
105	10.5	10.5	8.89	8.96															
110	10.9	10.9	9.89	9.98															
115	11.6	11.6	11.0	11.1															
120	12.5	12.5	12.2	12.3															
125	13.6	13.6	13.5	13.7															
130	14.8	14.7	14.9	15.1															
135	16.0	15.9	16.3	16.5															
140	17.2	17.2	17.7	17.9															
145	18.4	18.4	19.0	19.1															
150	19.6	19.6	20.2	20.4															
155	20.8	20.8	21.4	21.5															
160	21.9	21.9	22.4	22.5															
165	22.9	22.9	23.3	23.3															
170	23.7	23.8	24.0	24.0															
175	24.3	24.3	24.5	24.4															
180	24.5	24.6	24.6	24.5															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
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Remarks: