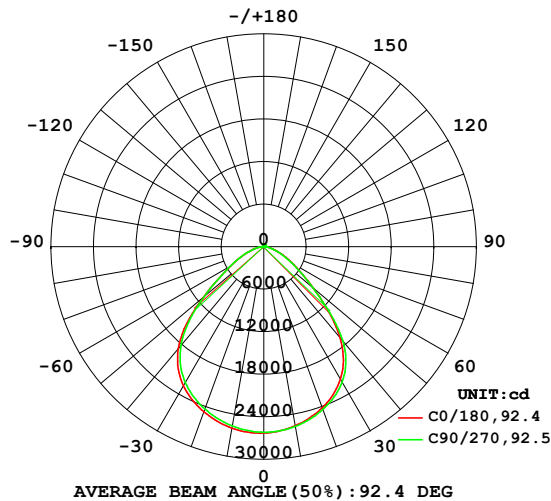


LUMINAIRE PHOTOMETRIC TEST REPORT

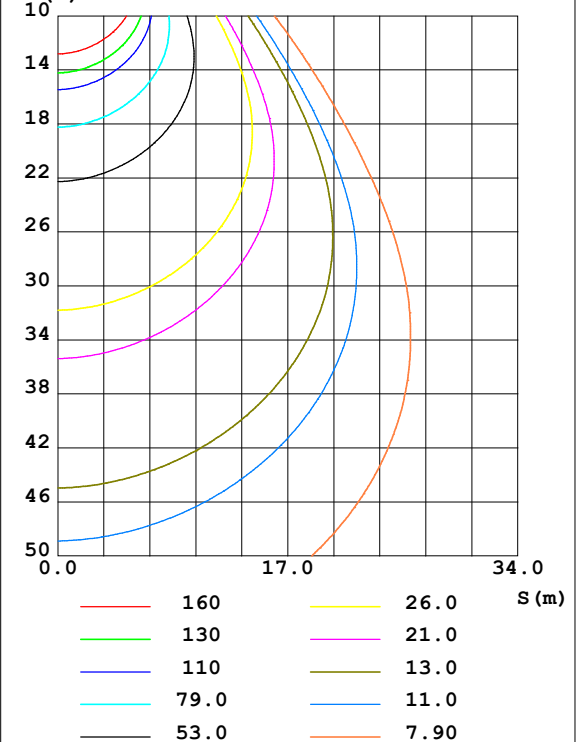
Test:U:218.09V I:1.3794A P:296.94W PF:0.9870 Freq:49.99Hz Lamp Flux:56907x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 191.64 lm/W			
MODEL		I _{max} (cd)	26310	S/MH (C0/180)	1.28
NOMINAL POWER(W)	300	LOR(%)	100.0	S/MH (C90/270)	1.25
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	56907	η UP,DN(C0-180)	1.2,46.9
NOMINAL FLUX(lm)	56907	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	2564	2574	2599	2567					0- 10	2481	2481	4.36, 4.36
20	2418	2443	2478	2436					10- 20	7113	9595	16.9, 16.9
30	2162	2209	2268	2214					20- 30	10794	20389	35.8, 35.8
40	1674	1737	1877	1816					30- 40	12632	33021	58, 58
50	917.4	910.1	1117	1098					40- 50	10793	43814	77, 77
60	463.3	447.1	535.0	535.6					50- 60	6416	50231	88.3, 88.3
70	211.4	202.1	246.1	249.4					60- 70	3453	53683	94.3, 94.3
80	69.27	67.94	88.51	89.41					70- 80	1544	55227	97, 97
90	17.50	17.44	10.58	10.52					80- 90	381.1	55608	97.7, 97.7
100	15.66	15.62	12.26	12.23					90-100	150.7	55759	98, 98
110	16.44	16.37	14.97	14.99					100-110	155.3	55914	98.3, 98.3
120	18.81	18.73	18.38	18.46					110-120	169.3	56084	98.6, 98.6
130	22.07	21.99	22.35	22.55					120-130	182.3	56266	98.9, 98.9
140	25.83	25.75	26.58	26.83					130-140	187.4	56453	99.2, 99.2
150	29.44	29.37	30.16	30.34					140-150	175.9	56629	99.5, 99.5
160	32.90	32.85	33.35	33.42					150-160	145.3	56775	99.8, 99.8
170	35.67	35.71	36.06	35.97					160-170	97.63	56872	99.9, 99.9
180	36.87	37.01	37.05	36.87					170-180	34.74	56907	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 38946 lm

%lum = 68.4%

%lamp = 68.4%

Conical surface Flux(120deg): 50231 lm

%lum = 88.3%

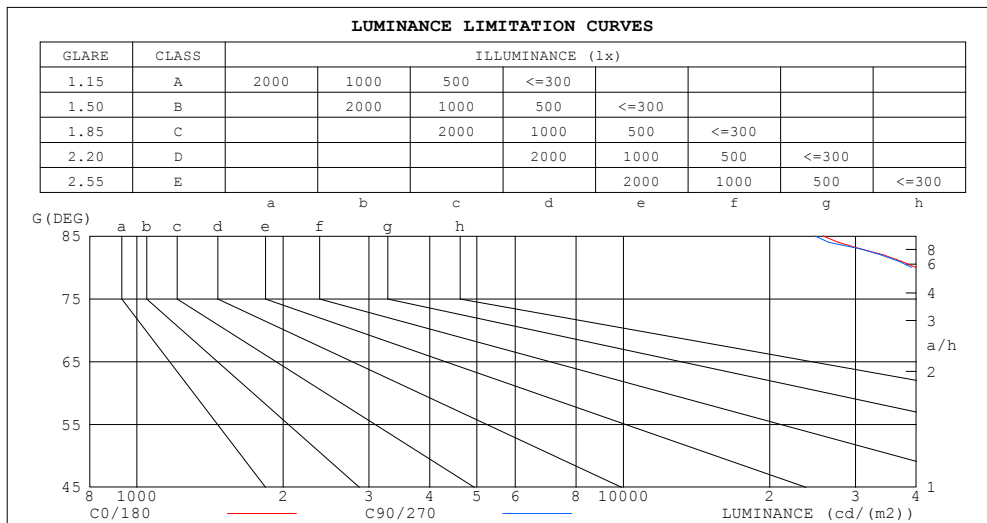
%lamp = 88.3%

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:218.09V I:1.3794A P:296.94W PF:0.9870 Freq:49.99Hz Lamp Flux:56907x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	25734	24752
80	39890	39123
75	51599	49246
70	61805	59086
65	76079	72839
60	92659	89423
55	112994	110717
50	142715	141582
45	182594	186510

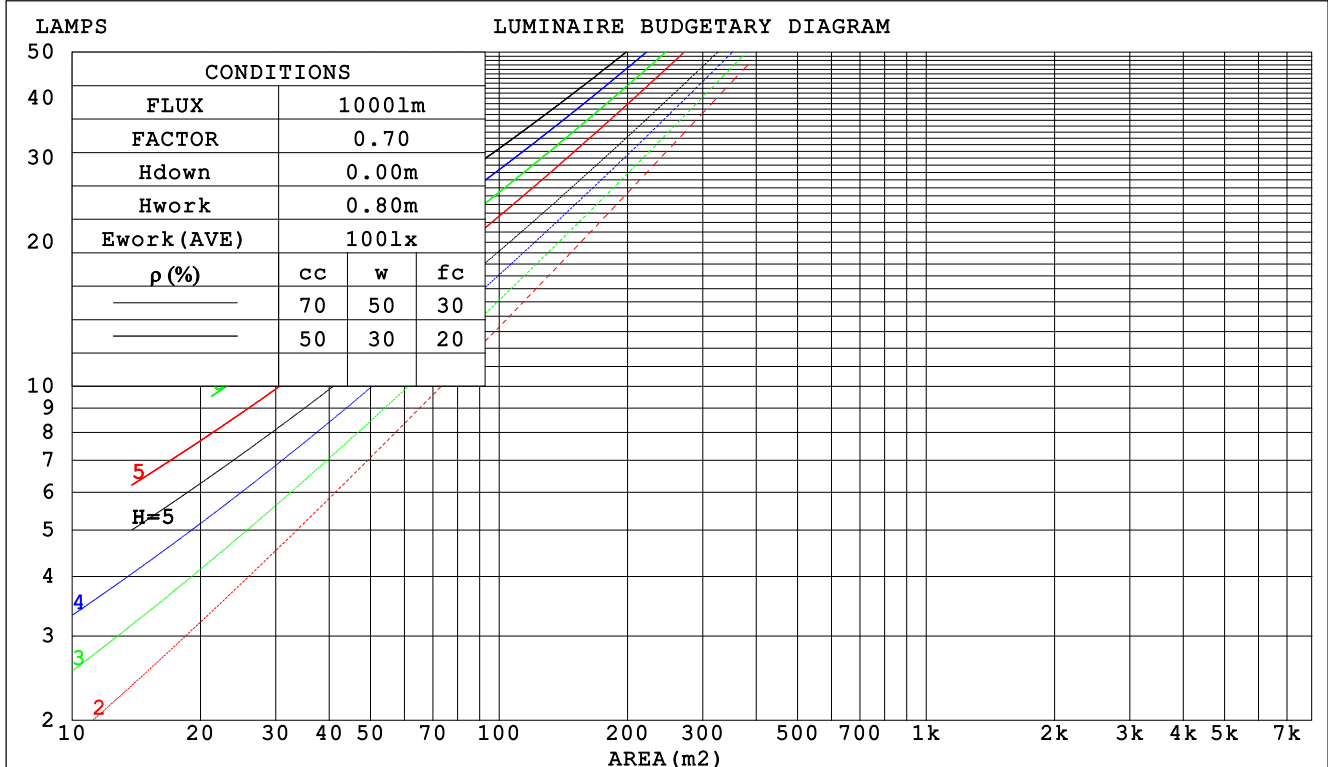
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-12

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:218.09V I:1.3794A P:296.94W PF:0.9870 Freq:49.99Hz Lamp Flux:56907x1 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	.84	.93	.88	.83	.89	.85	.81	.86	.82	.79	.82	.80	.77	.75
3.0	.85	.78	.73	.83	.77	.72	.80	.75	.70	.77	.73	.69	.75	.71	.67	.65
4.0	.77	.69	.63	.75	.68	.63	.73	.66	.62	.70	.65	.60	.68	.63	.59	.57
5.0	.69	.61	.56	.68	.61	.55	.66	.59	.54	.64	.58	.54	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.49	.60	.53	.48	.58	.52	.48	.57	.51	.47	.45
7.0	.58	.50	.44	.57	.49	.44	.55	.48	.43	.54	.47	.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:218.09V I:1.3794A P:296.94W PF:0.9870 Freq:49.99Hz Lamp Flux:56907x1 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	.252	.143	.045	.244	.139	.044	.230	.132	.042	.217	.125	.040	.205	.119	.038	
2.0	.243	.133	.041	.236	.130	.040	.224	.124	.039	.212	.119	.037	.202	.114	.036	
3.0	.230	.122	.037	.224	.120	.036	.213	.115	.035	.203	.111	.034	.193	.107	.033	
4.0	.216	.112	.033	.211	.110	.033	.201	.107	.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	.191	.096	.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	.156	.166	.149	.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	.059	.059	.046	.035	.019	.015	.011	
4.0	.166	.118	.081	.143	.102	.070	.098	.071	.050	.057	.042	.029	.018	.014	.010	
5.0	.159	.107	.069	.137	.093	.060	.094	.065	.042	.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	.049	.028	.047	.029	.017	.015	.010	.005	
10.0	.130	.077	.042	.112	.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: 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:218.09V I:1.3794A P:296.94W PF:0.9870 Freq:49.99Hz Lamp Flux:56907x1 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	14.4	15.7	14.7	15.9	16.2	14.4	15.7	14.7	15.9	16.2
3H	14.9	16.1	15.2	16.3	16.6	14.8	16.0	15.1	16.3	16.6
4H	15.0	16.2	15.4	16.5	16.8	15.0	16.1	15.3	16.4	16.7
6H	15.1	16.2	15.5	16.5	16.8	15.0	16.1	15.4	16.4	16.7
8H	15.1	16.1	15.5	16.5	16.8	15.0	16.1	15.4	16.4	16.7
12H	15.1	16.1	15.5	16.4	16.7	15.0	16.0	15.4	16.3	16.7
4H 2H	14.6	15.7	14.9	16.0	16.3	14.5	15.7	14.9	16.0	16.2
3H	15.2	16.2	15.6	16.5	16.8	15.1	16.1	15.5	16.4	16.8
4H	15.4	16.3	15.8	16.7	17.0	15.4	16.3	15.8	16.6	17.0
6H	15.6	16.4	16.0	16.8	17.2	15.5	16.3	15.9	16.7	17.1
8H	15.6	16.3	16.1	16.7	17.2	15.5	16.3	16.0	16.7	17.1
12H	15.6	16.3	16.1	16.7	17.1	15.5	16.2	16.0	16.6	17.1
8H 4H	15.5	16.2	15.9	16.6	17.0	15.4	16.1	15.8	16.5	17.0
6H	15.7	16.3	16.2	16.7	17.2	15.6	16.2	16.1	16.7	17.1
8H	15.7	16.3	16.2	16.7	17.2	15.7	16.2	16.2	16.7	17.2
12H	15.8	16.2	16.3	16.7	17.2	15.7	16.1	16.2	16.6	17.1
12H 4H	15.4	16.1	15.9	16.5	17.0	15.4	16.0	15.8	16.5	16.9
6H	15.7	16.2	16.2	16.7	17.2	15.6	16.1	16.1	16.6	17.1
8H	15.7	16.2	16.3	16.7	17.2	15.7	16.1	16.2	16.6	17.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.8 / - 1.0				
1.5H	+ 0.6 / - 0.6					+ 0.6 / - 0.6				
2.0H	+ 1.6 / - 1.2					+ 1.7 / - 1.2				

CIE Pub.117, 56907 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 14.0)
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:218.09V I:1.3794A P:296.94W PF:0.9870 Freq:49.99Hz Lamp Flux:56907x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

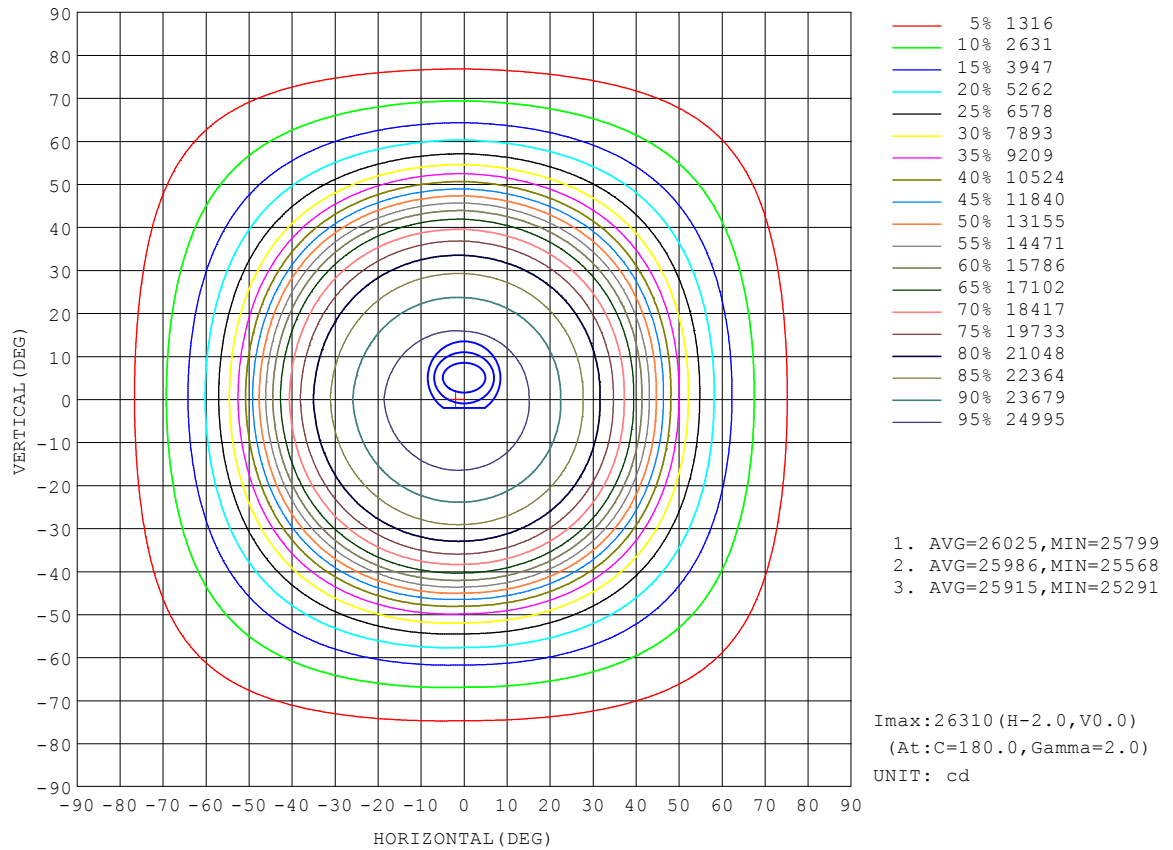
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	49	64	55	49	63	54	49	43
0.80	75	65	59	74	65	59	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	91	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:218.09V I:1.3794A P:296.94W PF:0.9870 Freq:49.99Hz Lamp Flux:56907x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

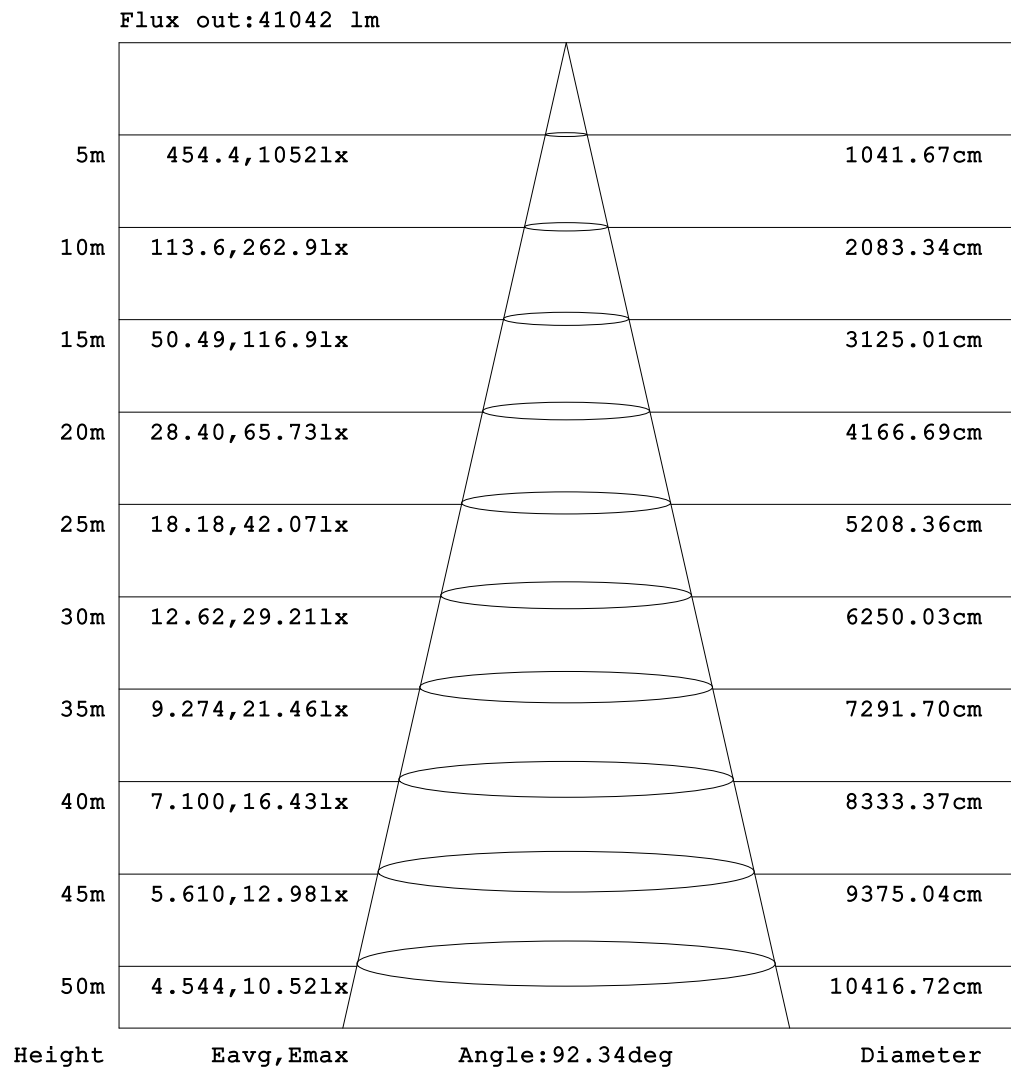


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-12

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:218.09V I:1.3794A P:296.94W PF:0.9870 Freq:49.99Hz Lamp Flux:56907x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



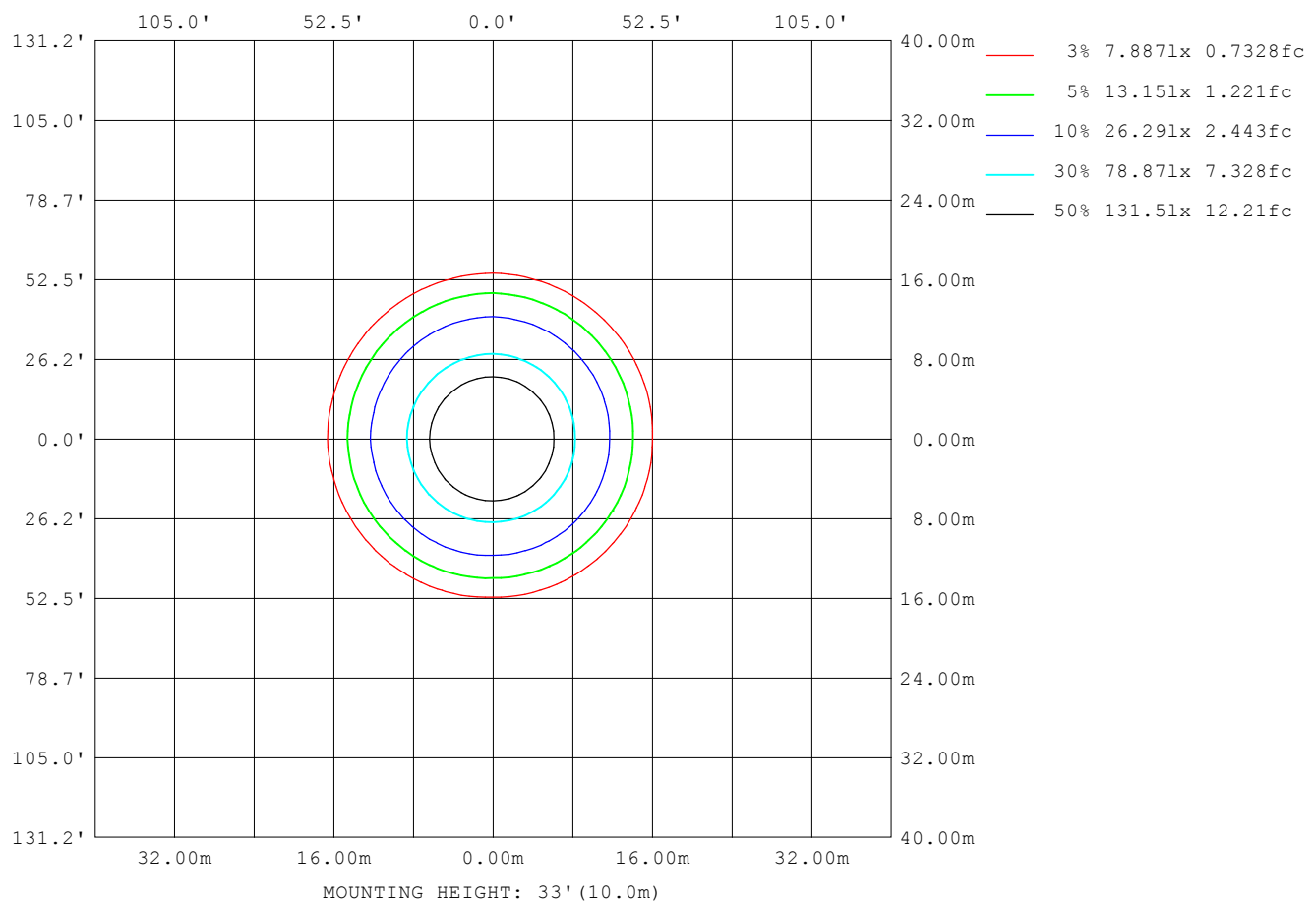
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:218.09V I:1.3794A P:296.94W PF:0.9870 Freq:49.99Hz Lamp Flux:56907x1 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
 γ 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:218.09V I:1.3794A P:296.94W PF:0.9870 Freq:49.99Hz Lamp Flux:56907x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

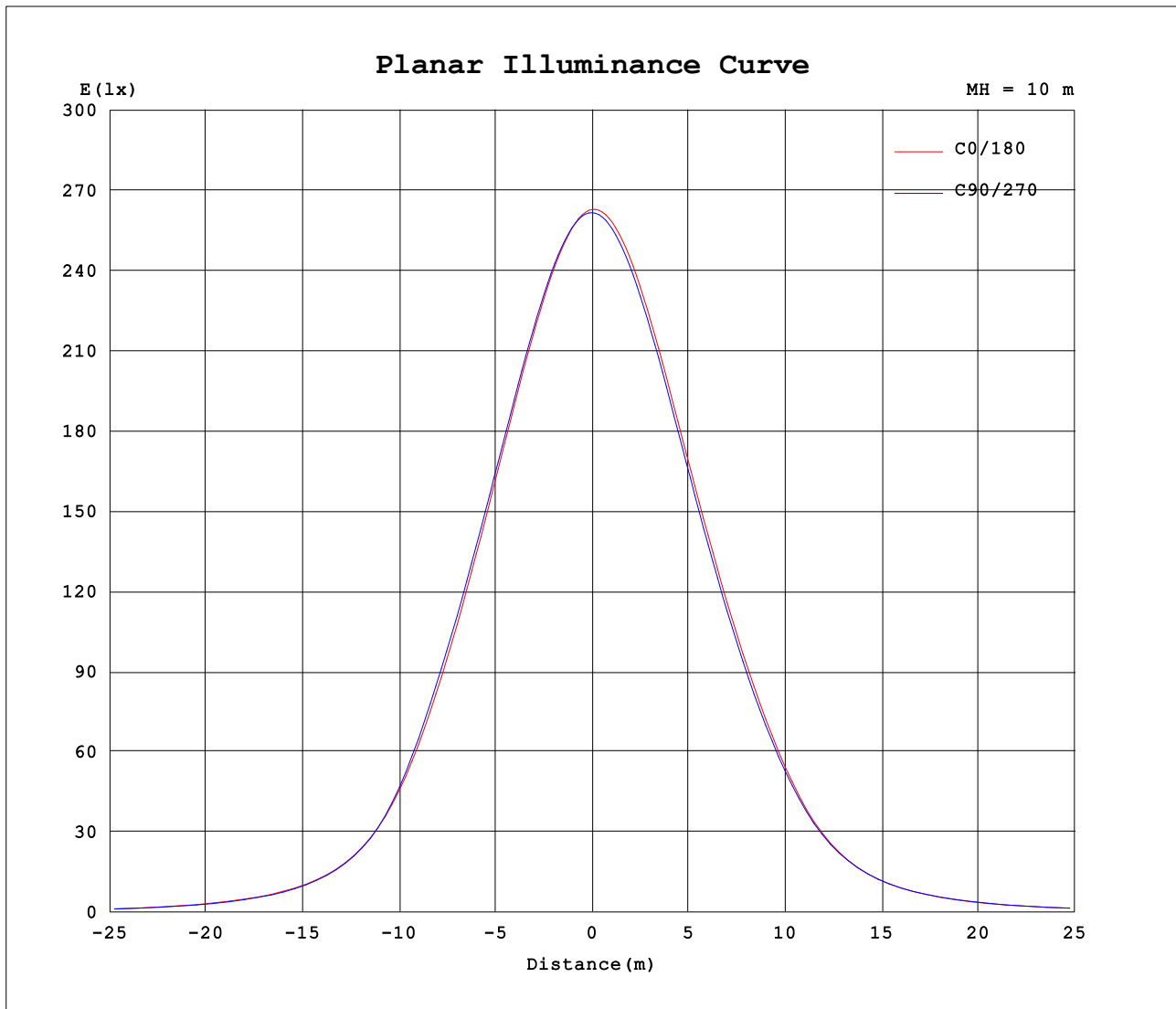
AvgL	cd/m2
L_0~180 (65) av	82023
L_0~180 (75) av	55750
L_0~180 (85) av	32410
L_90~270 (65) av	80658
L_90~270 (75) av	54997
L_90~270 (85) av	32493
L_45 (65) av	81541
L_45 (75) av	55539
L_45 (85) av	32879

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:218.09V I:1.3794A P:296.94W PF:0.9870 Freq:49.99Hz Lamp Flux:56907x1 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	2629	2618	2629	2618															
5	2608	2608	2626	2604															
10	2564	2574	2599	2567															
15	2501	2519	2549	2510															
20	2418	2443	2478	2436															
25	2309	2343	2386	2339															
30	2162	2209	2268	2214															
35	1959	2019	2106	2048															
40	1674	1737	1877	1816															
45	1291	1319	1541	1497															
50	917	910	1117	1098															
55	648	635	765	764															
60	463	447	535	536															
65	322	308	372	374															
70	211	202	246	249															
75	134	127	155	157															
80	69.3	67.9	88.5	89.4															
85	22.4	21.6	34.1	35.1															
90	17.5	17.4	10.6	10.5															
95	16.2	16.2	11.3	11.2															
100	15.7	15.6	12.3	12.2															
105	15.8	15.7	13.5	13.5															
110	16.4	16.4	15.0	15.0															
115	17.5	17.4	16.6	16.7															
120	18.8	18.7	18.4	18.5															
125	20.4	20.3	20.3	20.4															
130	22.1	22.0	22.3	22.6															
135	23.9	23.8	24.5	24.7															
140	25.8	25.8	26.6	26.8															
145	27.7	27.6	28.5	28.7															
150	29.4	29.4	30.2	30.3															
155	31.2	31.1	31.8	31.9															
160	32.9	32.8	33.3	33.4															
165	34.4	34.4	34.9	34.9															
170	35.7	35.7	36.1	36.0															
175	36.6	36.6	36.8	36.7															
180	36.9	37.0	37.0	36.9															

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