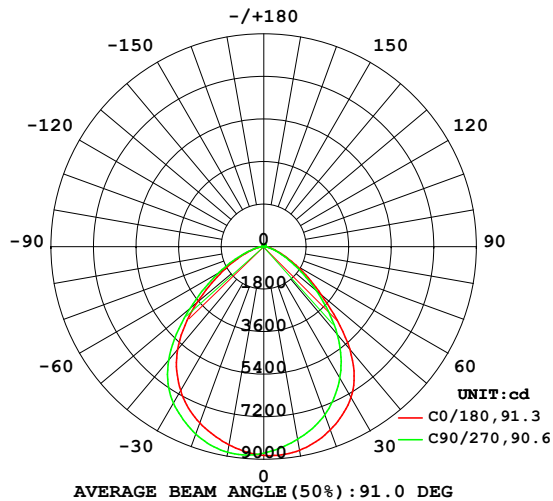


LUMINAIRE PHOTOMETRIC TEST REPORT

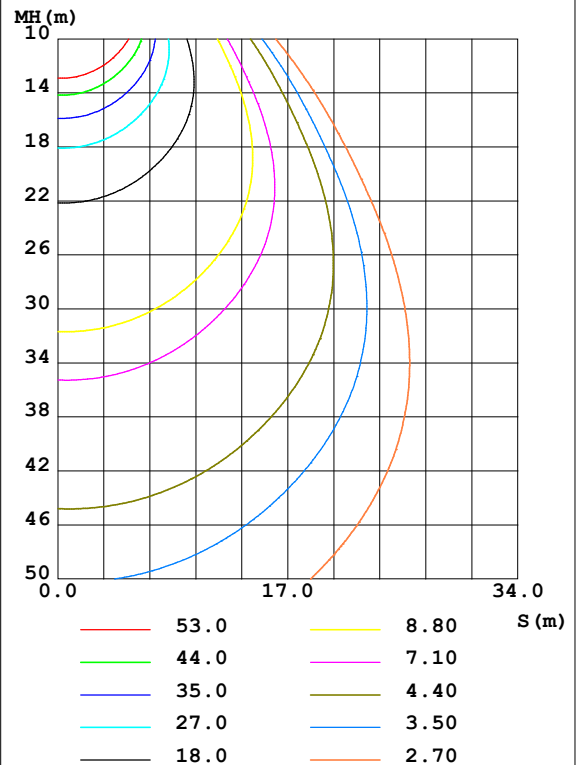
Test:U:218.56V I:0.4724A P:99.123W PF:0.9600 Freq:49.99Hz Lamp Flux:18668.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 188.34 lm/W			
MODEL		I _{max} (cd)	8856	S/MH (C0/180)	1.19
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	18668	η UP, DN (C0-180)	1.2, 45.6
NOMINAL FLUX (lm)	18668.5	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 52.1
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	97.7	CIBSE SHR MAX	1.30

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	8745	8271	8512	8834					0- 10	829.1	829.1	4.44,4.44
20	8243	7567	7934	8433					10- 20	2358	3187	17.1,17.1
30	7375	6434	7037	7644					20- 30	3512	6699	35.9,35.9
40	5665	4830	5665	6265					30- 40	4022	10721	57.4,57.4
50	3193	2904	3683	4090					40- 50	3497	14218	76.2,76.2
60	1585	1409	1897	2179					50- 60	2281	16499	88.4,88.4
70	635.6	574.1	775.3	896.3					60- 70	1174	17673	94.7,94.7
80	196.1	165.0	237.2	278.0					70- 80	457.7	18130	97.1,97.1
90	57.69	55.76	35.64	36.74					80- 90	112.3	18243	97.7,97.7
100	51.47	51.43	40.09	38.67					90-100	49.08	18292	98,98
110	53.20	55.16	49.10	47.27					100-110	50.61	18342	98.3,98.3
120	60.55	64.34	60.84	58.51					110-120	55.39	18398	98.6,98.6
130	71.22	76.41	73.93	71.37					120-130	60.01	18458	98.9,98.9
140	83.19	89.25	87.40	84.46					130-140	61.56	18519	99.2,99.2
150	95.17	100.9	99.46	96.74					140-150	57.73	18577	99.5,99.5
160	106.5	111.5	110.4	108.3					150-160	47.87	18625	99.8,99.8
170	115.8	119.3	118.5	117.2					160-170	32.12	18657	99.9,99.9
180	120.7	122.0	121.1	121.7					170-180	11.39	18668	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 12603 lm

%lum = 67.5%

%lamp = 67.5%

Conical surface Flux(120deg): 16499 lm

%lum = 88.4%

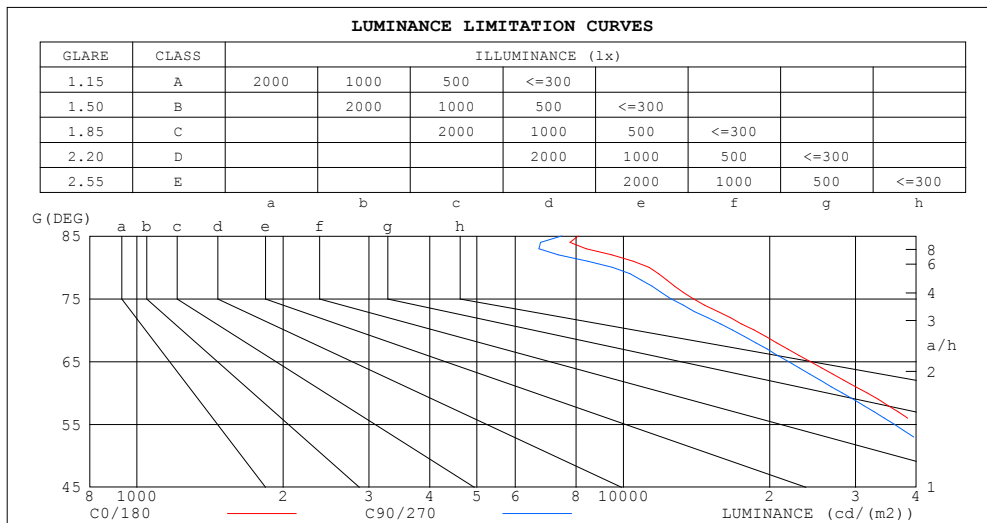
%lamp = 88.4%

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:218.56V I:0.4724A P:99.123W PF:0.9600 Freq:49.99Hz Lamp Flux:18668.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8078	7475
80	11294	9505
75	13913	12519
70	18583	16786
65	24215	21835
60	31696	28185
55	40112	36050
50	49680	45185
45	62069	54691

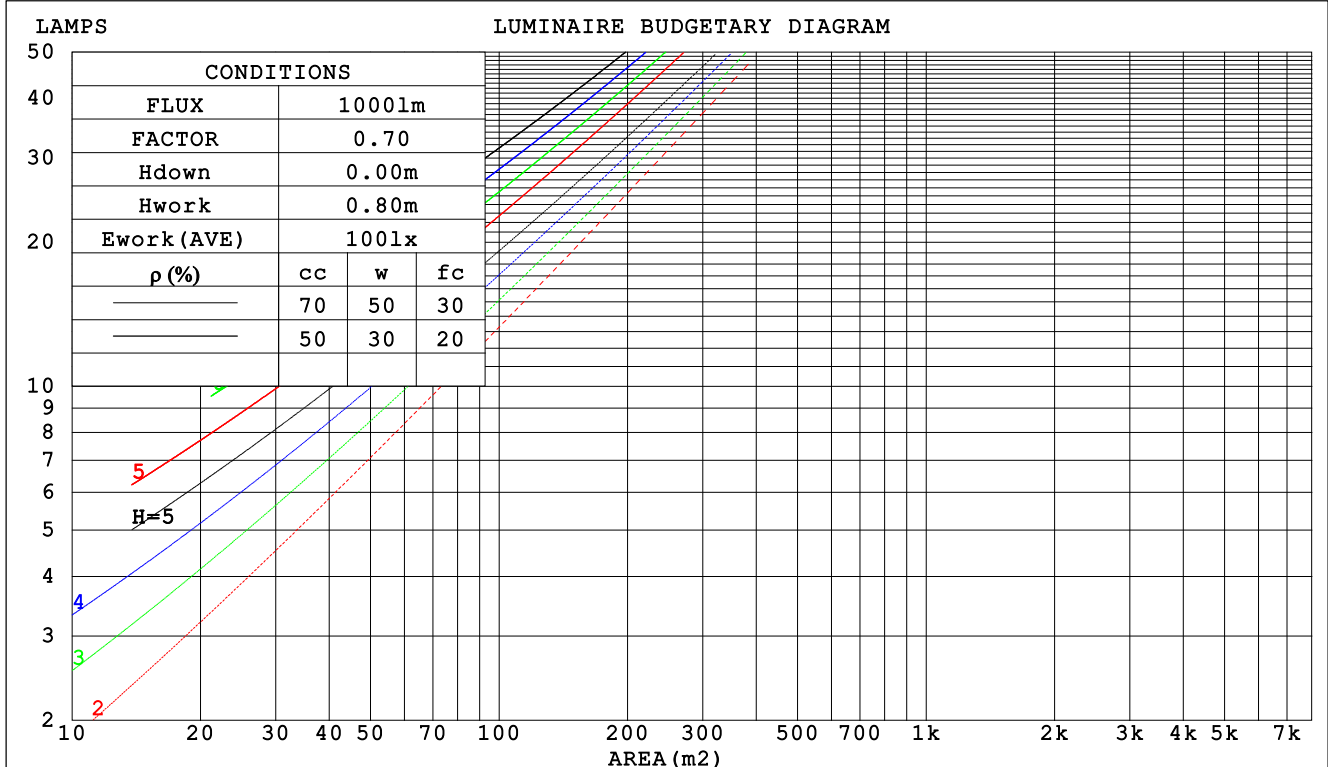
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-12

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:218.56V I:0.4724A P:99.123W PF:0.9600 Freq:49.99Hz Lamp Flux:18668.5x1 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	.62	.72	.66	.61	.70	.65	.60	.68	.63	.59	.57
5.0	.69	.61	.55	.68	.61	.55	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.49	.60	.53	.48	.58	.52	.48	.56	.51	.47	.45
7.0	.58	.50	.44	.57	.49	.44	.55	.48	.43	.53	.47	.43	.52	.47	.42	.41
8.0	.53	.45	.40	.52	.45	.39	.51	.44	.39	.49	.43	.39	.48	.42	.38	.37
9.0	.49	.41	.36	.48	.41	.36	.47	.40	.36	.46	.40	.35	.44	.39	.35	.33
10.0	.45	.38	.33	.45	.37	.33	.43	.37	.32	.42	.36	.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:218.56V I:0.4724A P:99.123W PF:0.9600 Freq:49.99Hz Lamp Flux:18668.5x1 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	.244	.139	.044	.229	.132	.042	.216	.125	.040	.204	.118	.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	.184	.100	.030	
5.0	.203	.104	.030	.199	.102	.030	.190	.099	.029	.182	.096	.029	.174	.093	.028	
6.0	.191	.096	.027	.187	.094	.027	.179	.092	.027	.172	.089	.026	.165	.087	.026	
7.0	.180	.089	.025	.176	.088	.025	.169	.085	.025	.163	.083	.024	.156	.081	.024	
8.0	.170	.083	.023	.166	.082	.023	.160	.080	.023	.154	.078	.022	.148	.076	.022	
9.0	.160	.077	.022	.157	.077	.022	.151	.075	.021	.146	.073	.021	.141	.072	.021	
10.0	.152	.073	.020	.149	.072	.020	.144	.070	.020	.139	.069	.020	.134	.068	.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	.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	.167	.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	.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:218.56V I:0.4724A P:99.123W PF:0.9600 Freq:49.99Hz Lamp Flux:18668.5x1 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	14.5	15.9	14.8	16.1	16.3	14.1	15.4	14.4	15.6	15.9
3H	14.9	16.1	15.2	16.4	16.7	14.5	15.7	14.8	15.9	16.2
4H	15.0	16.1	15.3	16.4	16.7	14.5	15.7	14.9	15.9	16.2
6H	15.0	16.1	15.4	16.4	16.7	14.5	15.6	14.9	15.9	16.2
8H	15.0	16.0	15.4	16.3	16.7	14.5	15.5	14.9	15.8	16.2
12H	15.0	16.0	15.4	16.3	16.6	14.5	15.5	14.9	15.8	16.1
4H 2H	14.7	15.8	15.0	16.1	16.4	14.3	15.4	14.6	15.7	16.0
3H	15.2	16.1	15.5	16.5	16.8	14.7	15.7	15.1	16.1	16.4
4H	15.3	16.2	15.7	16.5	16.9	14.9	15.8	15.3	16.1	16.5
6H	15.4	16.2	15.8	16.5	17.0	14.9	15.7	15.4	16.1	16.5
8H	15.4	16.1	15.8	16.5	16.9	14.9	15.7	15.4	16.1	16.5
12H	15.4	16.0	15.8	16.4	16.9	14.9	15.6	15.4	16.0	16.5
8H 4H	15.3	16.0	15.7	16.4	16.8	14.9	15.6	15.3	16.0	16.4
6H	15.4	16.0	15.9	16.4	16.9	15.0	15.6	15.5	16.0	16.5
8H	15.4	16.0	15.9	16.4	16.9	15.0	15.5	15.5	16.0	16.5
12H	15.4	15.9	16.0	16.4	16.9	15.0	15.5	15.5	15.9	16.5
12H 4H	15.2	15.9	15.7	16.3	16.8	14.8	15.5	15.3	15.9	16.4
6H	15.4	15.9	15.9	16.4	16.9	15.0	15.5	15.5	16.0	16.5
8H	15.4	15.9	15.9	16.4	16.9	15.0	15.4	15.5	15.9	16.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 1.0					+ 0.8 / - 1.0				
1.5H	+ 0.5 / - 0.5					+ 0.4 / - 0.5				
2.0H	+ 1.7 / - 1.6					+ 1.6 / - 1.5				

CIE Pub.117, 18668 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.2)
Area: 0.1 m2

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

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:218.56V I:0.4724A P:99.123W PF:0.9600 Freq:49.99Hz Lamp Flux:18668.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

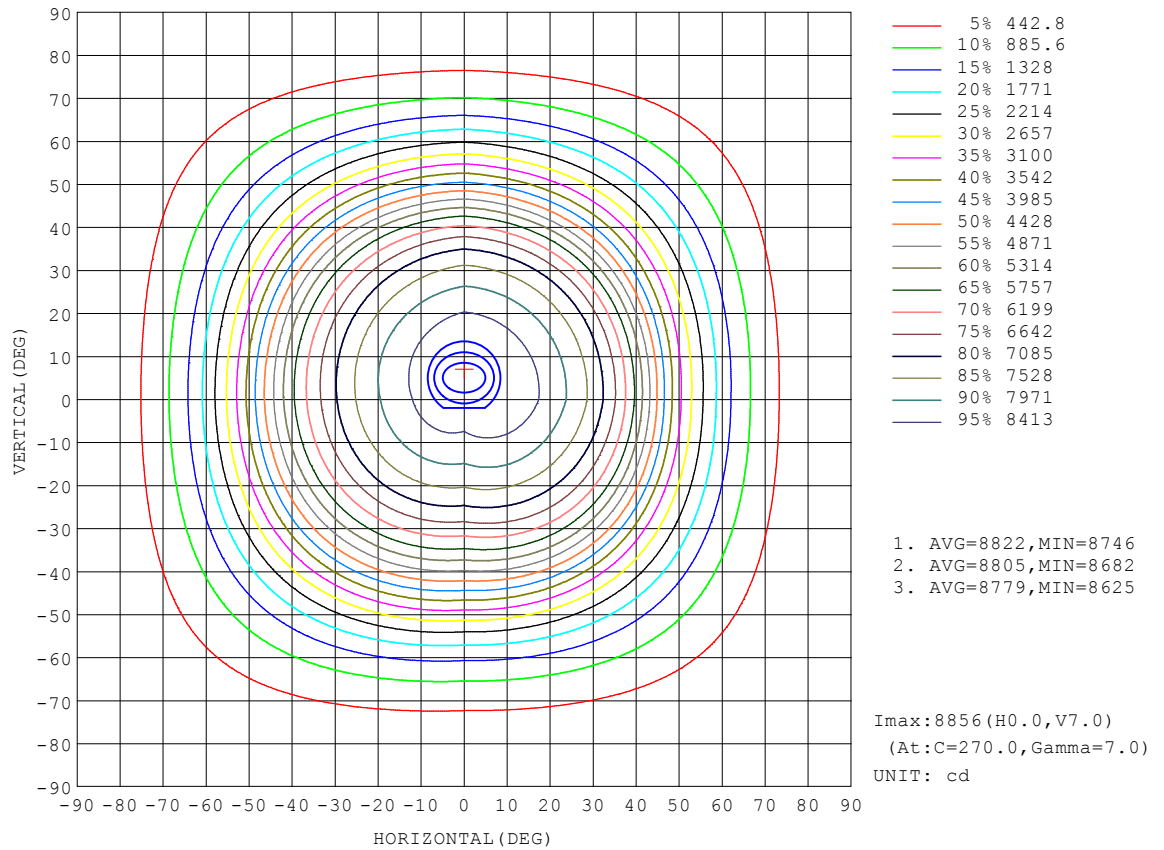
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	54	48	64	54	48	63	54	48	42
0.80	75	65	58	74	64	58	72	63	58	52
1.00	83	73	67	82	73	67	79	74	66	60
1.25	89	81	75	88	80	74	85	78	73	67
1.50	94	86	80	92	85	79	89	83	78	71
2.00	100	93	87	98	91	86	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	108	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:218.56V I:0.4724A P:99.123W PF:0.9600 Freq:49.99Hz Lamp Flux:18668.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

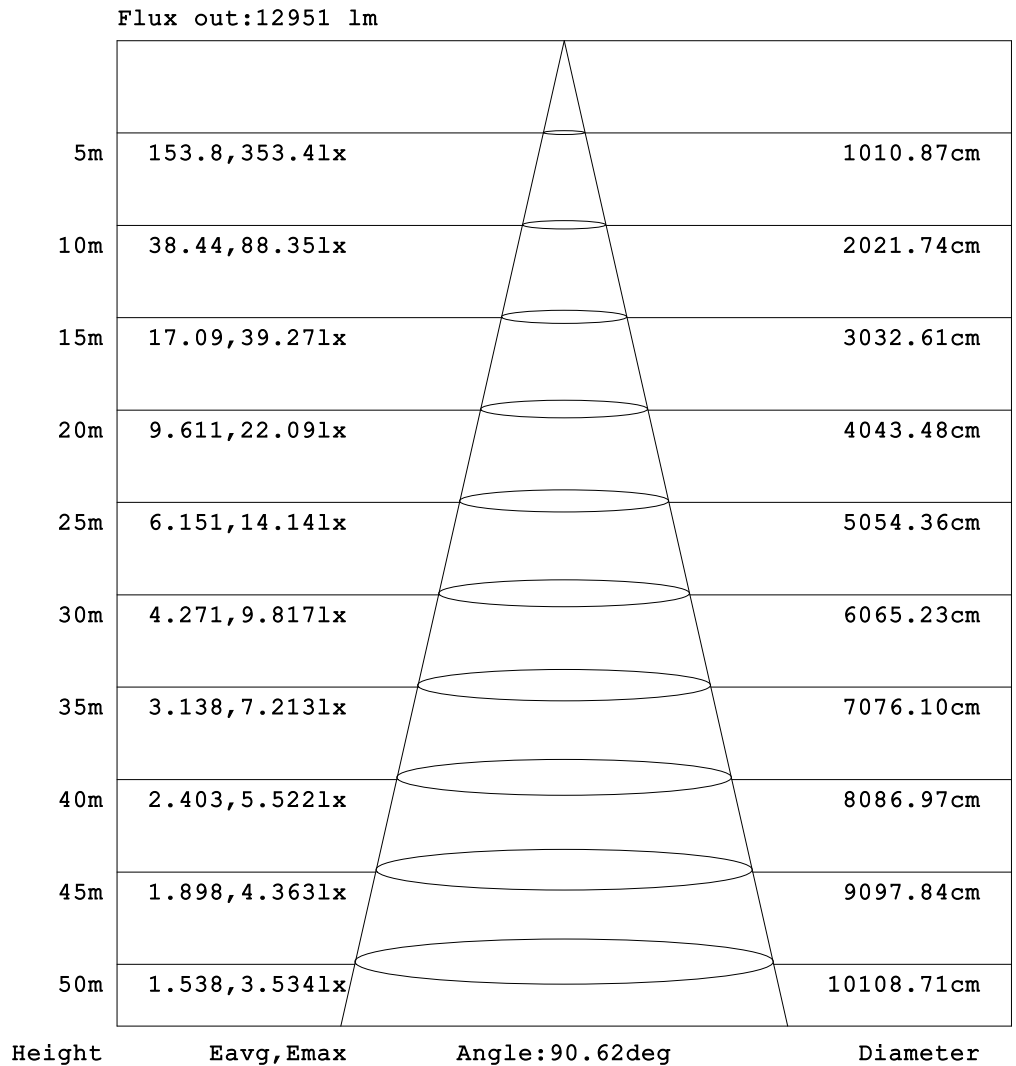


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-12

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:218.56V I:0.4724A P:99.123W PF:0.9600 Freq:49.99Hz Lamp Flux:18668.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



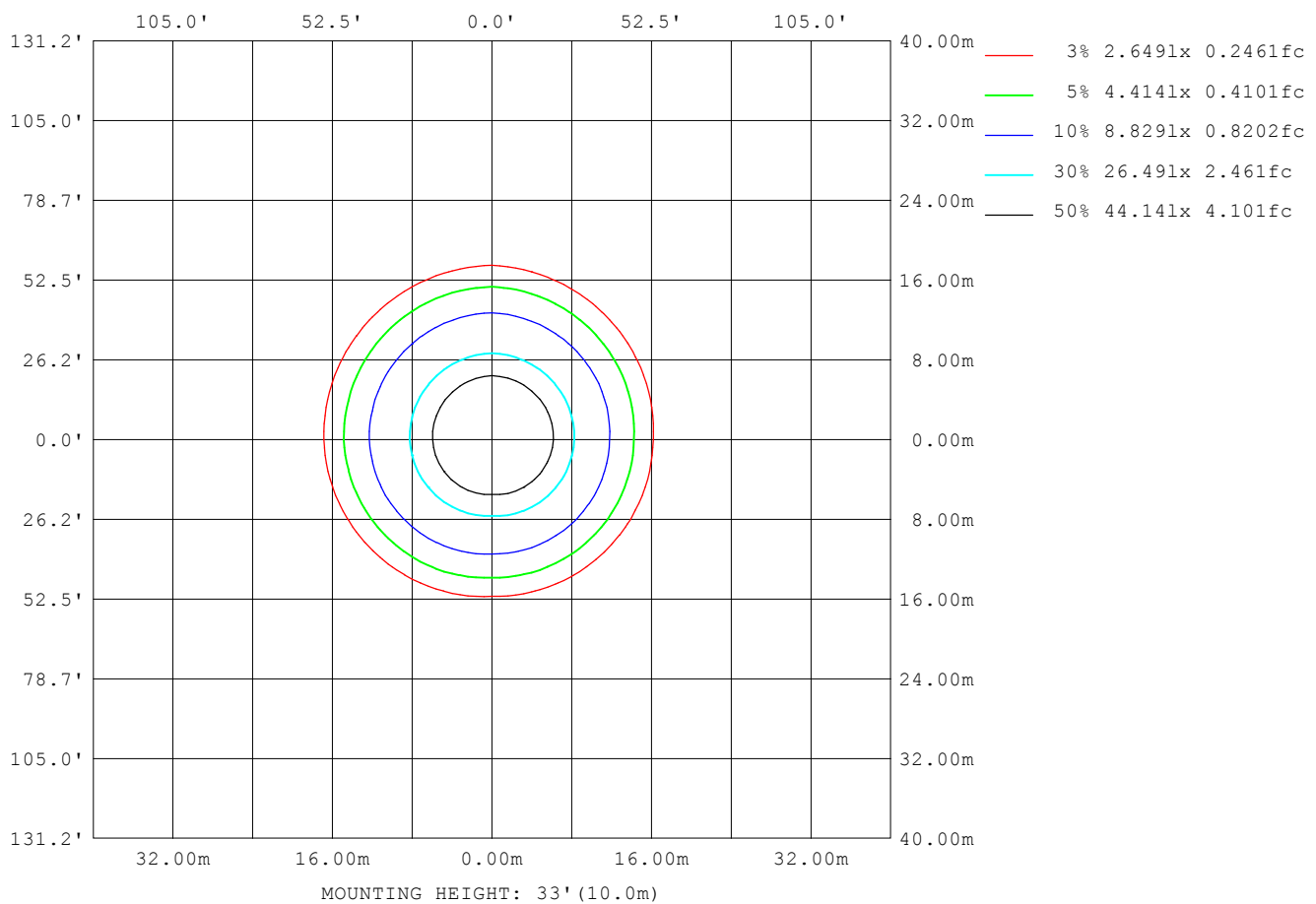
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:218.56V I:0.4724A P:99.123W PF:0.9600 Freq:49.99Hz Lamp Flux:18668.5x1 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:218.56V I:0.4724A P:99.123W PF:0.9600 Freq:49.99Hz Lamp Flux:18668.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

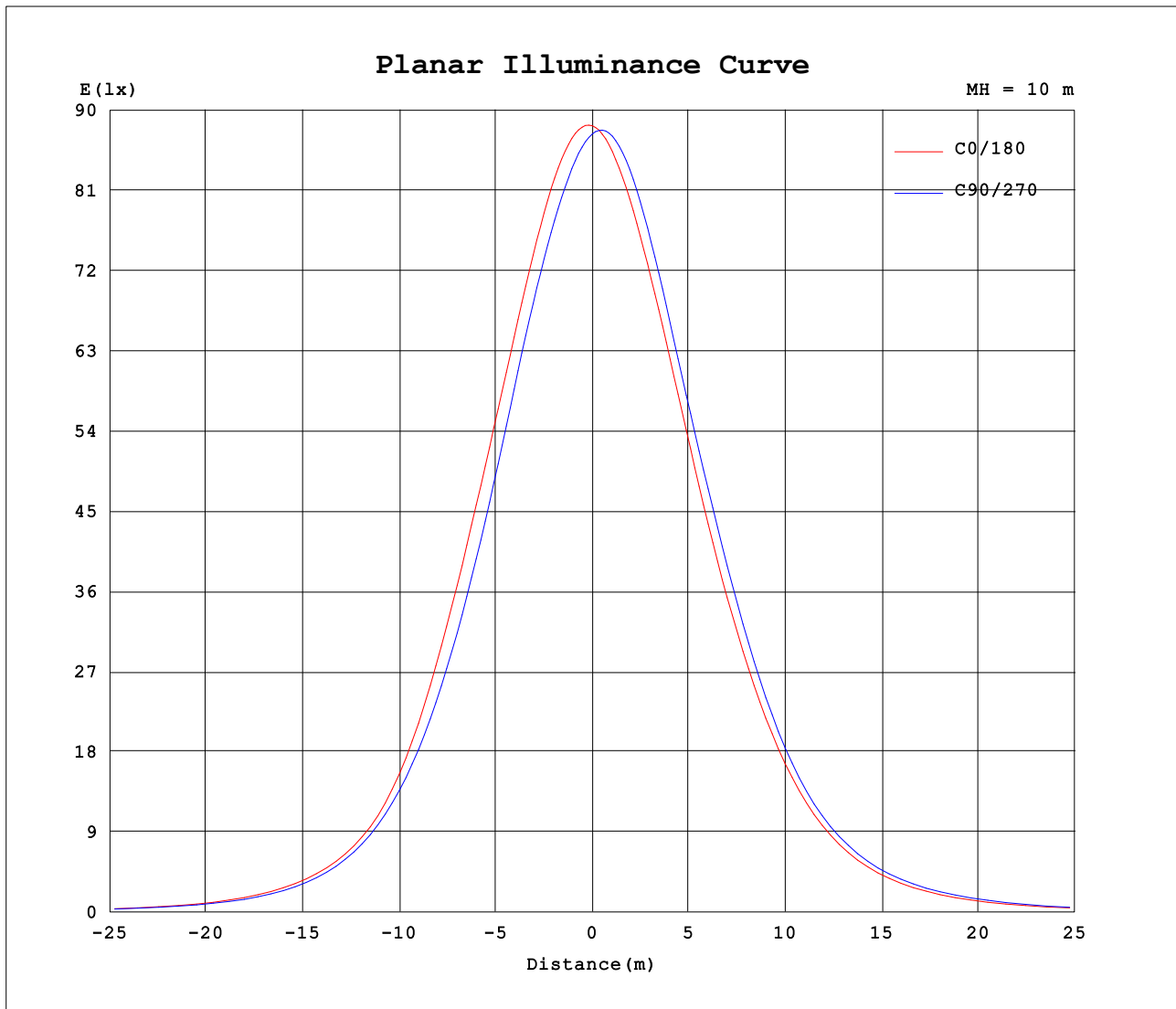
AvgL	cd/m2
L_0~180 (65) av	26749
L_0~180 (75) av	15686
L_0~180 (85) av	9504
L_90~270 (65) av	28221
L_90~270 (75) av	16418
L_90~270 (85) av	10690
L_45 (65) av	27827
L_45 (75) av	16254
L_45 (85) av	10335

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:218.56V I:0.4724A P:99.123W PF:0.9600 Freq:49.99Hz Lamp Flux:18668.5x1 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	8829	8735	8829	8735															
5	8841	8535	8713	8846															
10	8745	8271	8512	8834															
15	8542	7960	8249	8692															
20	8243	7567	7934	8433															
25	7867	7047	7544	8075															
30	7375	6434	7037	7644															
35	6676	5705	6426	7074															
40	5665	4830	5665	6265															
45	4389	3867	4723	5227															
50	3193	2904	3683	4090															
55	2301	2068	2701	3045															
60	1585	1409	1897	2179															
65	1023	923	1238	1463															
70	636	574	775	896															
75	360	324	452	526															
80	196	165	237	278															
85	70.4	65.2	95.3	121															
90	57.7	55.8	35.6	36.7															
95	53.5	52.6	36.9	35.7															
100	51.5	51.4	40.1	38.7															
105	51.4	52.4	44.2	42.5															
110	53.2	55.2	49.1	47.3															
115	56.3	59.2	54.7	52.7															
120	60.6	64.3	60.8	58.5															
125	65.6	70.1	67.3	64.8															
130	71.2	76.4	73.9	71.4															
135	77.2	82.9	80.7	77.9															
140	83.2	89.3	87.4	84.5															
145	89.2	95.2	93.6	90.7															
150	95.2	101	99.5	96.7															
155	101	106	105	103															
160	106	111	110	108															
165	111	116	115	113															
170	116	119	119	117															
175	119	121	121	120															
180	121	122	121	122															

C Range: 0 - 360DEG
C Interval: 90.0DEG
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γ Interval: 1.0DEG
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