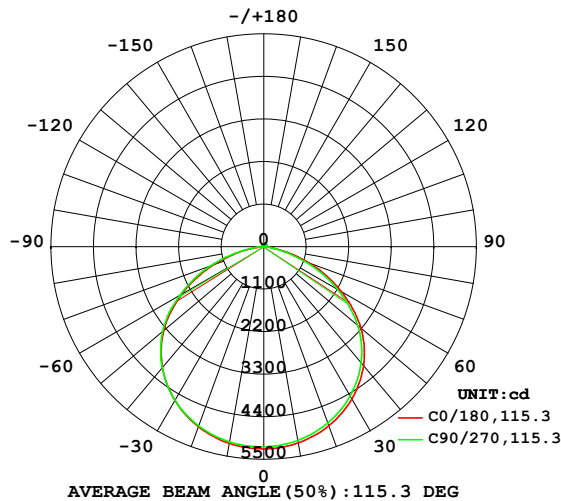


LUMINAIRE PHOTOMETRIC TEST REPORT

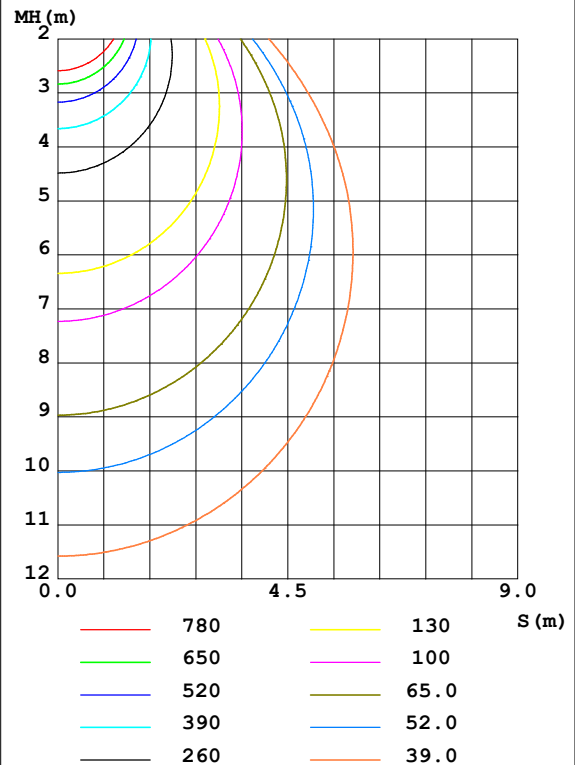
Test:U:218.59V I:0.4800A P:100.80W PF:0.9608 Freq:49.99Hz Lamp Flux:15336.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.15 lm/W			
MODEL		I _{max} (cd)	5228	S/MH (C0/180)	1.31
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH (C90/270)	1.32
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	15337	η UP,DN(C0-180)	1.2,47.4
NOMINAL FLUX(lm)	15336.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,50.3
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.0	η down (%)	97.7	CIBSE SHR MAX	1.35

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: 2024-11-10

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:

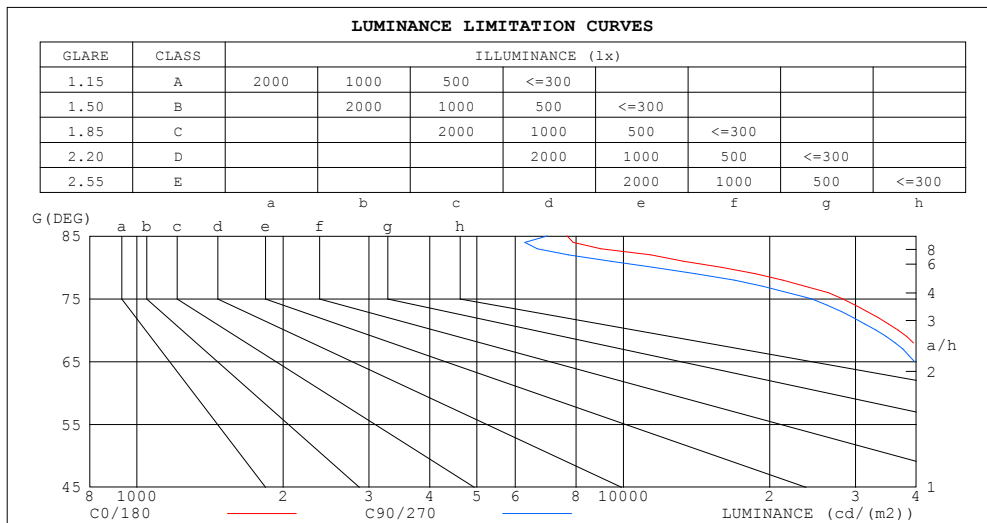
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	5151	5086	5165	5124					0- 10	493.2	493.2	3.22,3.22
20	4927	4850	4954	4930					10- 20	1424	1917	12.5,12.5
30	4553	4464	4595	4589					20- 30	2191	4108	26.8,26.8
40	4015	3918	4081	4090					30- 40	2695	6804	44.4,44.4
50	3283	3174	3379	3415					40- 50	2847	9650	62.9,62.9
60	2308	2195	2439	2501					50- 60	2551	12201	79.6,79.6
70	1257	1132	1393	1481					60- 70	1823	14024	91.4,91.4
80	276.7	200.3	368.5	446.8					70- 80	838.2	14862	96.9,96.9
90	57.03	55.84	32.81	32.28					80- 90	121.8	14984	97.7,97.7
100	50.69	50.09	35.78	34.81					90-100	47.20	15031	98,98
110	50.59	50.73	43.31	41.98					100-110	46.92	15078	98.3,98.3
120	54.23	54.61	51.87	50.50					110-120	49.24	15128	98.6,98.6
130	59.56	60.06	60.66	59.14					120-130	50.40	15178	99,99
140	65.76	66.25	68.83	67.33					130-140	49.10	15227	99.3,99.3
150	71.82	72.16	75.12	73.71					140-150	44.03	15271	99.6,99.6
160	77.13	77.40	79.69	78.37					150-160	35.01	15306	99.8,99.8
170	81.04	81.17	82.70	81.39					160-170	22.63	15329	99.9,99.9
180	83.11	83.00	83.79	82.49					170-180	7.849	15337	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:2024-11-10

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:0.4800A P:100.80W PF:0.9608 Freq:49.99Hz Lamp Flux:15336.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	7669	6978
80	15933	11537
75	28194	24336
70	36739	33096
65	42369	39648
60	46160	43905
55	49107	47088
50	51068	49377
45	51971	50539

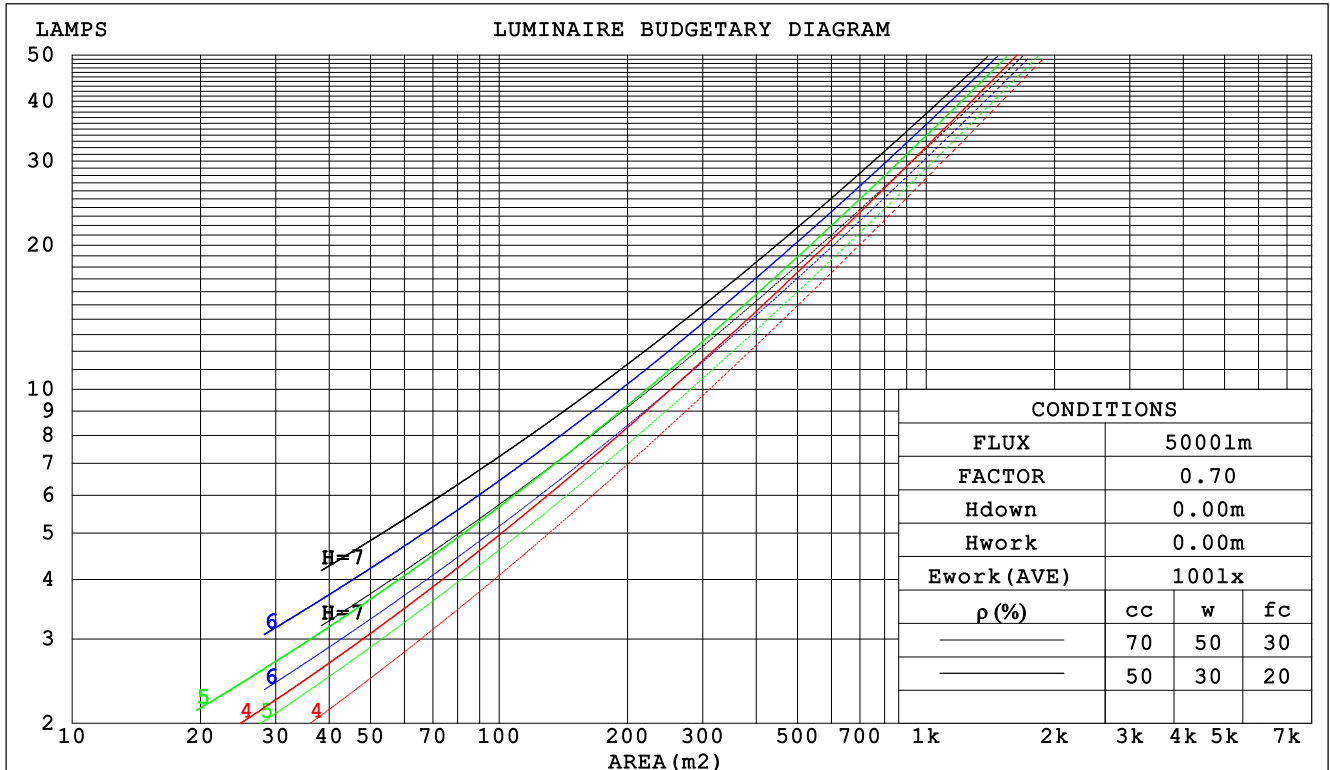
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-10

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:0.4800A P:100.80W PF:0.9608 Freq:49.99Hz Lamp Flux:15336.7x1 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	1.04	1.00	.97	1.02	.98	.95	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.91	.84	.79	.89	.83	.78	.85	.80	.76	.82	.77	.74	.78	.75	.72	.69
3.0	.80	.72	.66	.78	.71	.65	.75	.69	.63	.72	.67	.62	.69	.65	.61	.59
4.0	.71	.62	.56	.69	.61	.55	.67	.60	.54	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.48	.62	.54	.47	.60	.52	.47	.57	.51	.46	.55	.50	.45	.43
6.0	.57	.48	.42	.56	.47	.41	.54	.46	.41	.52	.45	.40	.50	.44	.40	.38
7.0	.51	.43	.37	.51	.42	.36	.49	.41	.36	.47	.41	.36	.46	.40	.35	.33
8.0	.47	.38	.33	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.31	.29
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.26
10.0	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-10

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:0.4800A P:100.80W PF:0.9608 Freq:49.99Hz Lamp Flux:15336.7x1 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	.292	.166	.053	.284	.162	.051	.269	.155	.049	.256	.148	.047	.244	.141	.046	
2.0	.280	.154	.047	.273	.151	.046	.261	.145	.045	.249	.140	.044	.238	.135	.042	
3.0	.262	.140	.042	.256	.137	.041	.245	.133	.040	.234	.128	.039	.224	.124	.038	
4.0	.244	.127	.037	.238	.125	.037	.228	.121	.036	.219	.117	.035	.210	.114	.035	
5.0	.226	.115	.033	.222	.114	.033	.212	.111	.033	.204	.108	.032	.196	.105	.031	
6.0	.211	.106	.030	.206	.104	.030	.198	.102	.030	.191	.099	.029	.184	.097	.029	
7.0	.196	.097	.028	.193	.096	.027	.185	.094	.027	.179	.092	.027	.172	.089	.026	
8.0	.184	.090	.025	.180	.089	.025	.174	.087	.025	.168	.085	.024	.162	.083	.024	
9.0	.173	.083	.023	.169	.083	.023	.163	.081	.023	.158	.079	.023	.153	.077	.022	
10.0	.162	.078	.022	.160	.077	.021	.154	.076	.021	.149	.074	.021	.144	.073	.021	

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	.197	.174	.153	.168	.149	.132	.115	.103	.091	.066	.059	.053	.021	.019	.017	
2.0	.188	.150	.117	.161	.129	.101	.111	.089	.071	.064	.052	.041	.020	.017	.013	
3.0	.181	.132	.093	.155	.114	.081	.106	.079	.057	.061	.046	.033	.020	.015	.011	
4.0	.173	.119	.077	.149	.103	.067	.102	.072	.047	.059	.042	.028	.019	.014	.009	
5.0	.166	.108	.066	.143	.094	.057	.098	.066	.040	.057	.038	.024	.018	.013	.008	
6.0	.159	.100	.058	.137	.087	.050	.094	.061	.036	.055	.036	.021	.018	.012	.007	
7.0	.153	.093	.052	.131	.081	.045	.091	.057	.032	.053	.033	.019	.017	.011	.006	
8.0	.146	.087	.047	.126	.076	.041	.087	.053	.029	.051	.031	.017	.016	.010	.006	
9.0	.140	.083	.044	.121	.072	.038	.084	.050	.027	.049	.030	.016	.016	.010	.005	
10.0	.135	.078	.041	.116	.068	.036	.081	.048	.025	.047	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2024-11-10

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:0.4800A P:100.80W PF:0.9608 Freq:49.99Hz Lamp Flux:15336.7x1 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	16.8	18.2	17.1	18.5	18.7	16.6	18.1	16.9	18.3	18.6
3H	18.0	19.3	18.3	19.6	19.9	17.7	19.1	18.0	19.3	19.6
4H	18.3	19.6	18.7	19.9	20.2	18.0	19.3	18.3	19.6	19.9
6H	18.4	19.6	18.8	19.9	20.2	18.0	19.2	18.4	19.5	19.9
8H	18.4	19.5	18.7	19.9	20.2	18.0	19.1	18.3	19.5	19.8
12H	18.3	19.4	18.7	19.8	20.1	17.9	19.0	18.3	19.4	19.7
4H 2H	17.3	18.5	17.6	18.8	19.1	17.1	18.4	17.5	18.7	19.0
3H	18.6	19.7	19.0	20.1	20.4	18.4	19.5	18.8	19.8	20.2
4H	19.0	20.0	19.4	20.4	20.8	18.7	19.7	19.1	20.1	20.5
6H	19.2	20.0	19.6	20.4	20.9	18.8	19.7	19.2	20.1	20.5
8H	19.1	20.0	19.6	20.4	20.8	18.8	19.6	19.2	20.0	20.4
12H	19.1	19.9	19.6	20.3	20.8	18.7	19.5	19.2	19.9	20.4
8H 4H	19.1	19.9	19.5	20.3	20.8	18.8	19.6	19.3	20.1	20.5
6H	19.3	20.0	19.8	20.4	20.9	18.9	19.6	19.4	20.1	20.5
8H	19.3	19.9	19.8	20.4	20.9	18.9	19.5	19.4	20.0	20.5
12H	19.3	19.8	19.8	20.3	20.8	18.9	19.4	19.4	19.9	20.4
12H 4H	19.1	19.8	19.5	20.2	20.7	18.8	19.5	19.2	20.0	20.4
6H	19.3	19.9	19.7	20.3	20.8	18.9	19.5	19.4	20.0	20.5
8H	19.3	19.8	19.8	20.3	20.8	18.9	19.4	19.4	19.9	20.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.5				
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				

CIE Pub.117, 15337 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 9.5)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-10

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:0.4800A P:100.80W PF:0.9608 Freq:49.99Hz Lamp Flux:15336.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

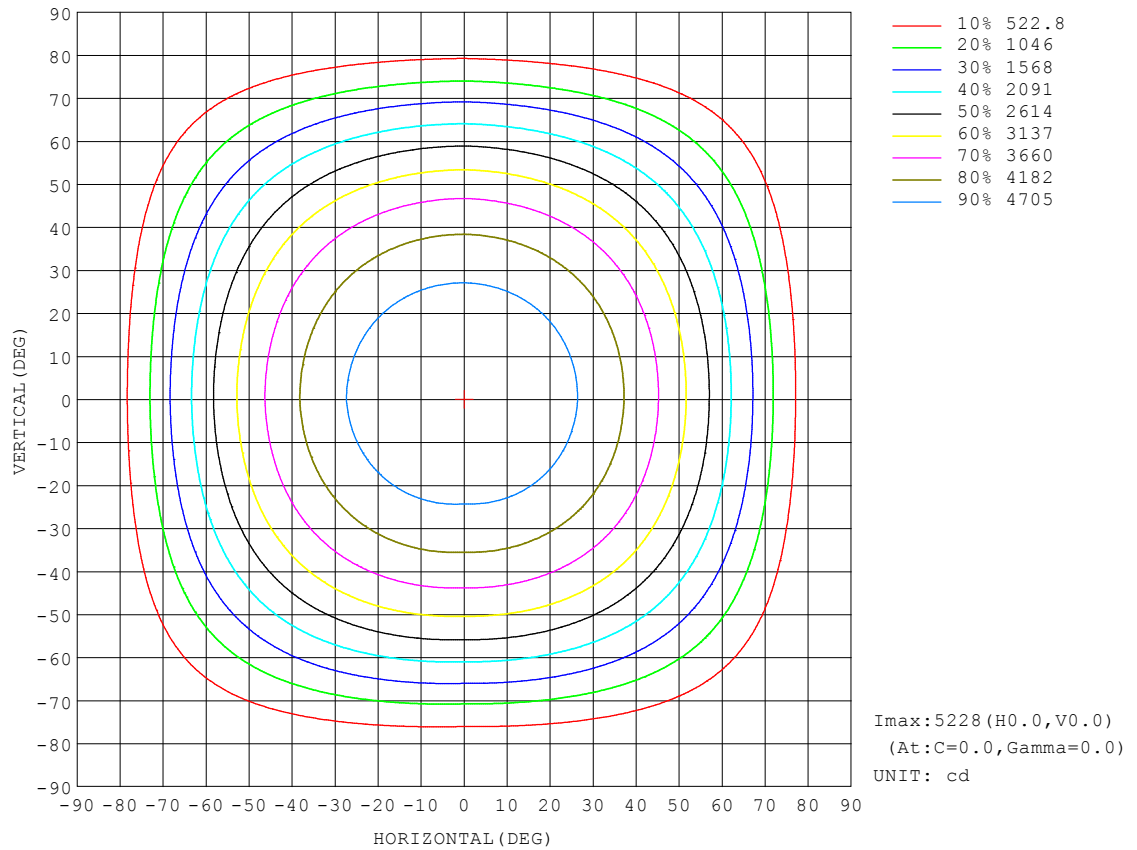
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	39	56	45	38	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	65	58	75	64	57	72	65	57	50
1.25	83	73	66	82	72	65	79	70	64	57
1.50	88	79	72	86	78	71	83	76	70	62
2.00	95	87	81	93	85	80	89	83	78	70
2.50	99	91	86	97	90	85	93	87	82	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	99	95	92	82
5.00	109	104	100	106	102	98	101	98	95	85
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: 2024-11-10

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:0.4800A P:100.80W PF:0.9608 Freq:49.99Hz Lamp Flux:15336.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

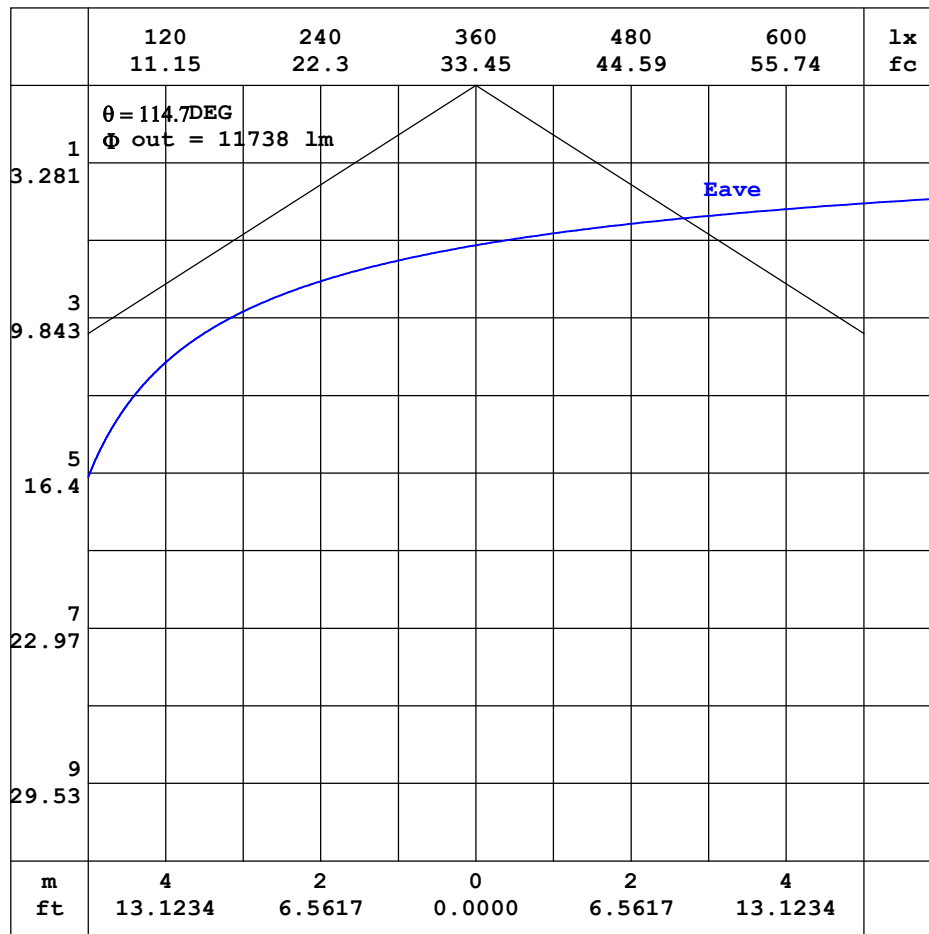


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-10

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:0.4800A P:100.80W PF:0.9608 Freq:49.99Hz Lamp Flux:15336.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



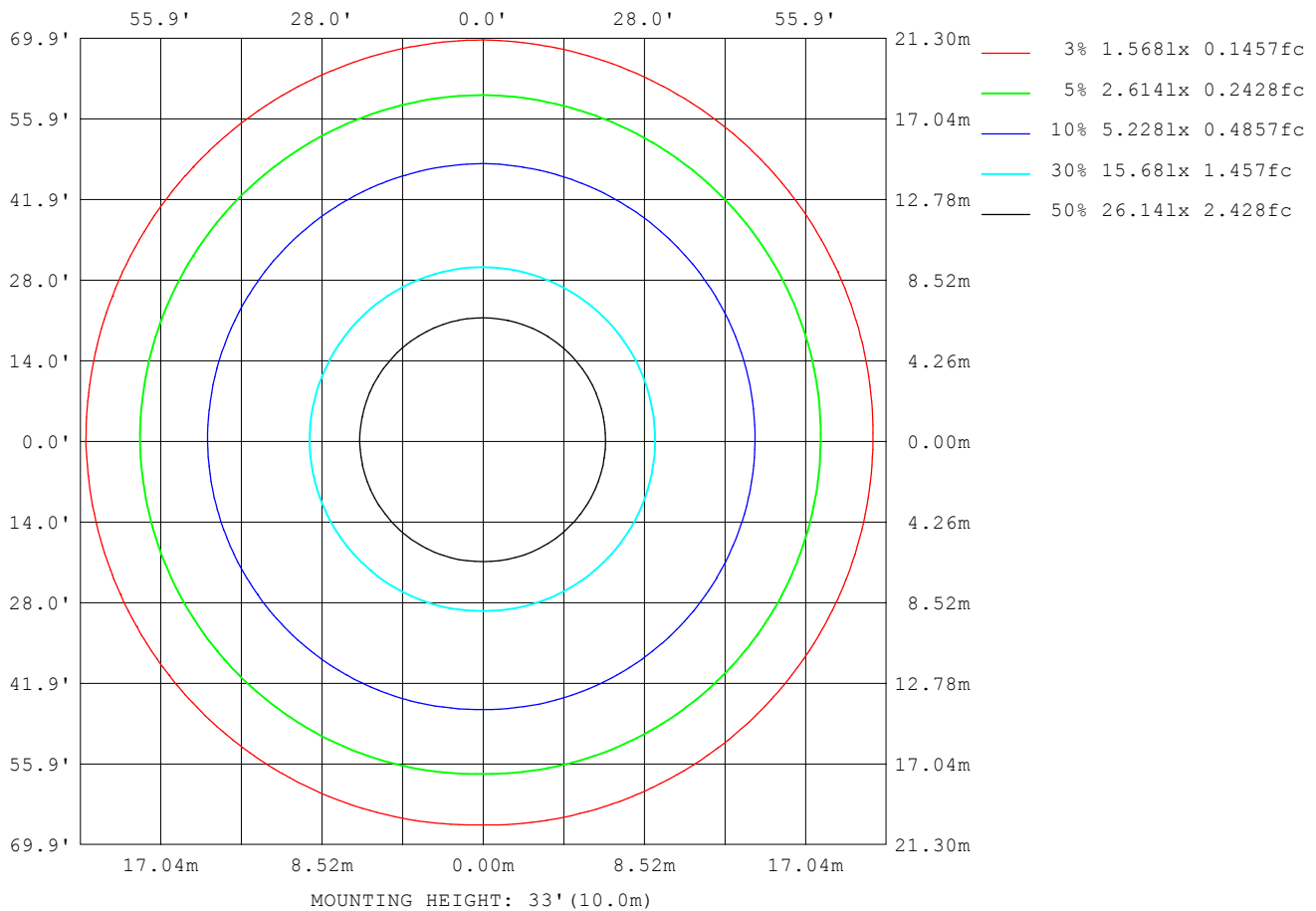
Note: The Curves indicate the illuminated area and the average illuminance when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2024-11-10

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:0.4800A P:100.80W PF:0.9608 Freq:49.99Hz Lamp Flux:15336.7x1 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:2024-11-10

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:0.4800A P:100.80W PF:0.9608 Freq:49.99Hz Lamp Flux:15336.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

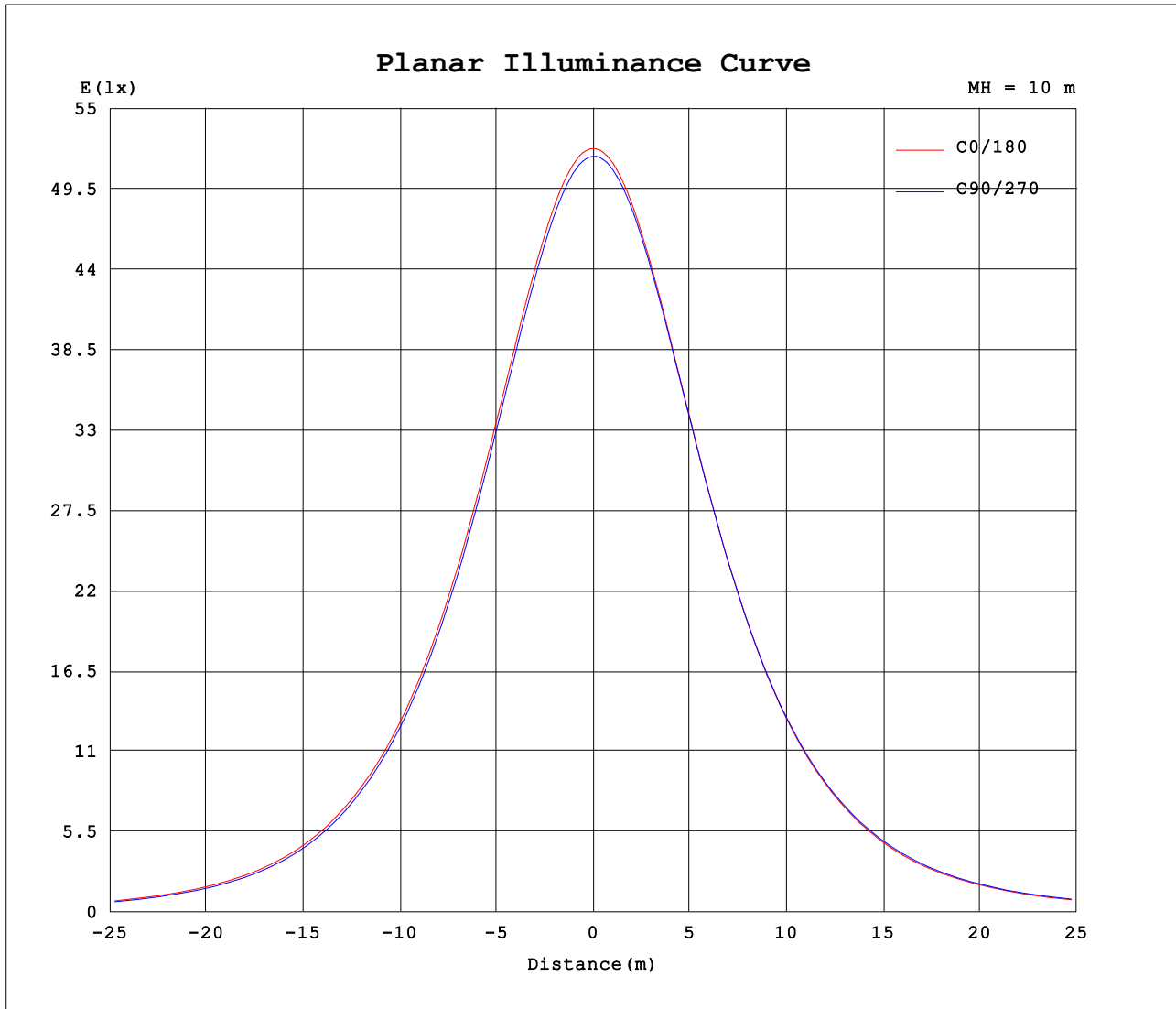
AvgL	cd/m2
L_0~180 (65) av	43940
L_0~180 (75) av	30412
L_0~180 (85) av	7615
L_90~270 (65) av	43411
L_90~270 (75) av	30267
L_90~270 (85) av	9022
L_45 (65) av	43707
L_45 (75) av	30460
L_45 (85) av	8491

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-10

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: 2024-11-10

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:0.4800A P:100.80W PF:0.9608 Freq:49.99Hz Lamp Flux:15336.7x1 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	5228	5175	5228	5175															
5	5208	5148	5213	5166															
10	5151	5086	5165	5124															
15	5057	4987	5077	5046															
20	4927	4850	4954	4930															
25	4758	4678	4792	4778															
30	4553	4464	4595	4589															
35	4305	4212	4357	4360															
40	4015	3918	4081	4090															
45	3675	3574	3753	3777															
50	3283	3174	3379	3415															
55	2817	2701	2937	2990															
60	2308	2195	2439	2501															
65	1791	1676	1923	1994															
70	1257	1132	1393	1481															
75	730	630	845	937															
80	277	200	369	447															
85	66.8	60.8	65.9	96.5															
90	57.0	55.8	32.8	32.3															
95	53.3	52.3	33.7	32.9															
100	50.7	50.1	35.8	34.8															
105	50.0	49.8	39.1	37.9															
110	50.6	50.7	43.3	42.0															
115	52.1	52.4	47.6	46.3															
120	54.2	54.6	51.9	50.5															
125	56.7	57.2	56.2	54.7															
130	59.6	60.1	60.7	59.1															
135	62.6	63.1	64.9	63.4															
140	65.8	66.3	68.8	67.3															
145	68.9	69.3	72.2	70.7															
150	71.8	72.2	75.1	73.7															
155	74.6	74.9	77.6	76.3															
160	77.1	77.4	79.7	78.4															
165	79.3	79.5	81.4	80.1															
170	81.0	81.2	82.7	81.4															
175	82.3	82.3	83.5	82.2															
180	83.1	83.0	83.8	82.5															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2024-11-10

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: