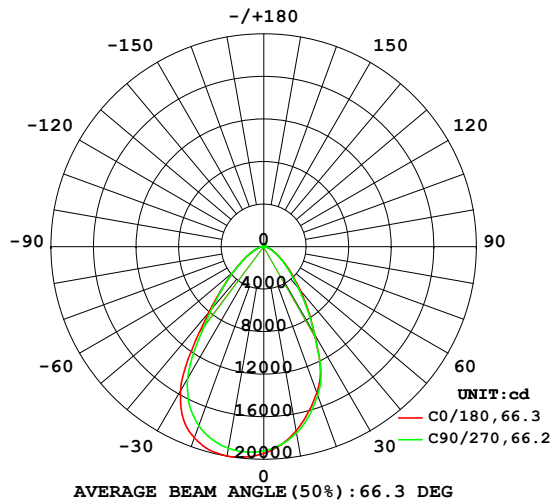


LUMINAIRE PHOTOMETRIC TEST REPORT

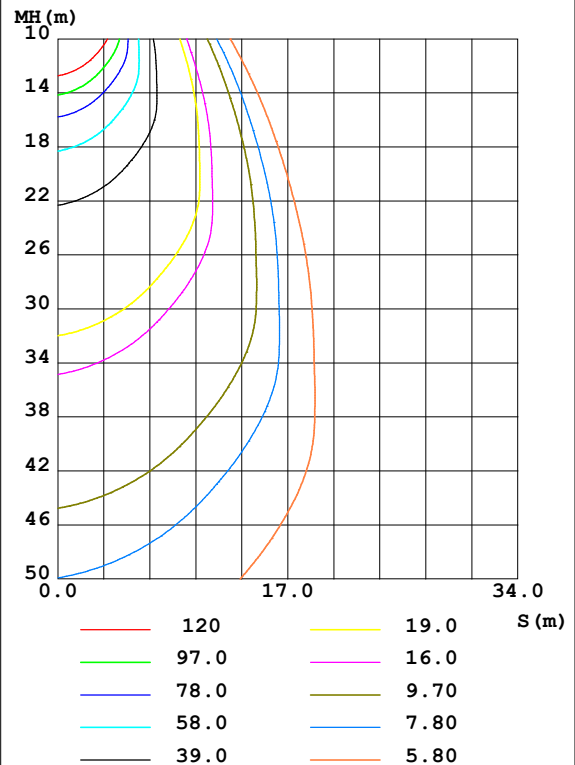
Test:U:218.70V I:0.7088A P:148.28W PF:0.9566 Freq:58.98Hz Lamp Flux:27366.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 184.56 lm/W			
MODEL		Imax(cd)	19981	S/MH(C0/180)	1.09
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH(C90/270)	1.06
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	27367	η UP,DN(C0-180)	1.2,41.4
NOMINAL FLUX(lm)	27366.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,56.3
LAMPS INSIDE	1	η up(%)	2.3	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	η down(%)	97.7	CIBSE SHR MAX	1.05

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:Jason
Test Date:2024-12-14

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	1759	1779	1998	1924					0- 10	1812	1812	6.62, 6.62
20	1460	1487	1913	1790					10- 20	4998	6810	24.9, 24.9
30	959.4	958.6	1565	1432					20- 30	6763	13573	49.6, 49.6
40	528.9	506.8	801.4	759.4					30- 40	5757	19329	70.6, 70.6
50	278.1	261.9	383.5	378.2					40- 50	3602	22932	83.8, 83.8
60	141.8	130.1	181.6	184.5					50- 60	2078	25010	91.4, 91.4
70	64.22	58.85	82.77	83.85					60- 70	1096	26106	95.4, 95.4
80	21.46	18.65	29.81	31.67					70- 80	490.4	26596	97.2, 97.2
90	7.251	7.188	4.976	4.902					80- 90	136.3	26732	97.7, 97.7
100	6.455	6.451	5.663	5.557					90-100	65.42	26798	97.9, 97.9
110	6.850	6.877	6.668	6.545					100-110	66.75	26865	98.2, 98.2
120	8.660	8.654	8.117	8.066					110-120	74.08	26939	98.4, 98.4
130	11.25	11.31	10.05	10.14					120-130	84.93	27024	98.7, 98.7
140	14.05	14.37	12.45	12.70					130-140	92.74	27116	99.1, 99.1
150	16.81	17.58	15.04	15.56					140-150	92.71	27209	99.4, 99.4
160	19.25	20.44	17.45	18.34					150-160	81.10	27290	99.7, 99.7
170	20.88	22.22	19.59	20.73					160-170	56.20	27346	99.9, 99.9
180	21.10	22.46	21.19	22.38					170-180	20.32	27367	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 21360 lm

%lum = 78.1%

%lamp = 78.1%

Conical surface Flux(120deg): 25010 lm

%lum = 91.4%

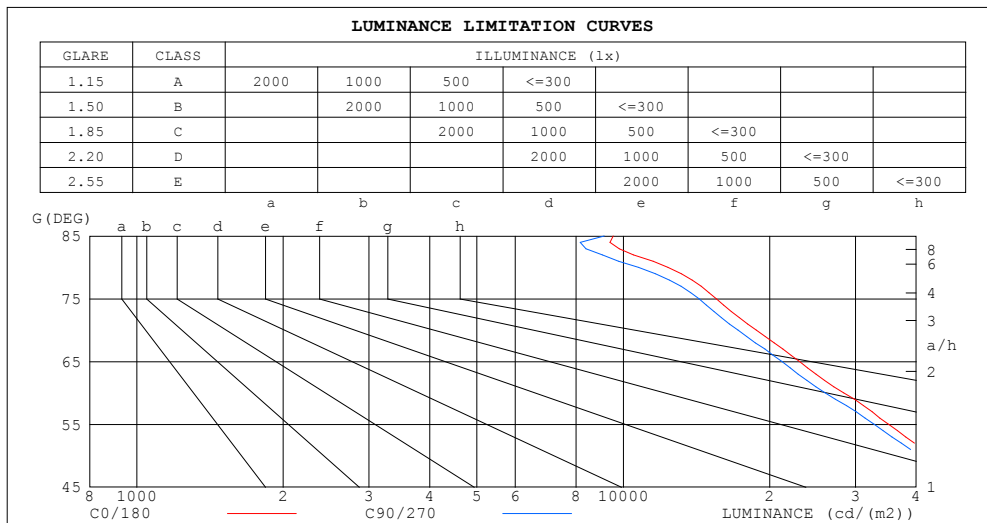
%lamp = 91.4%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-14

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:218.70V I:0.7088A P:148.28W PF:0.9566 Freq:58.98Hz Lamp Flux:27366.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	9539	9137
80	12356	10741
75	15521	14319
70	18777	17208
65	23030	21190
60	28363	26012
55	35112	32782
50	43264	40748
45	54354	51493

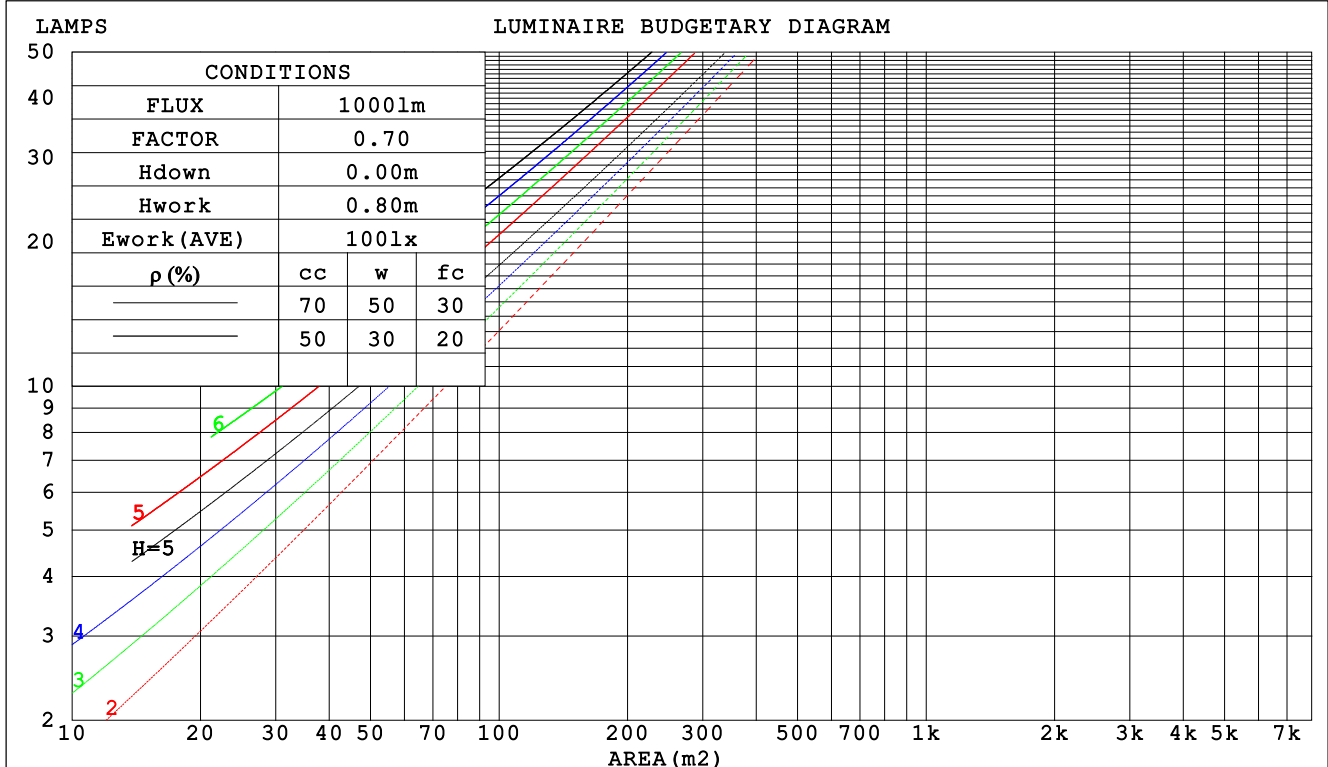
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-14

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:218.70V I:0.7088A P:148.28W PF:0.9566 Freq:58.98Hz Lamp Flux:27366.7x1 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	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.08	1.05	1.02	1.05	1.02	.00	1.01	.98	.96	.97	.95	.93	.93	.91	.90	.88
2.0	.98	.93	.88	.96	.91	.87	.92	.88	.85	.89	.85	.83	.85	.83	.81	.79
3.0	.89	.83	.78	.87	.82	.77	.84	.79	.75	.81	.77	.74	.79	.75	.72	.71
4.0	.81	.74	.69	.80	.74	.69	.77	.72	.68	.75	.70	.67	.73	.69	.65	.64
5.0	.75	.68	.62	.74	.67	.62	.71	.66	.61	.69	.64	.60	.67	.63	.59	.58
6.0	.69	.62	.56	.68	.61	.56	.66	.60	.55	.64	.59	.55	.63	.58	.54	.53
7.0	.64	.57	.51	.63	.56	.51	.61	.55	.51	.60	.54	.50	.58	.54	.50	.48
8.0	.59	.52	.47	.58	.52	.47	.57	.51	.47	.56	.50	.46	.55	.50	.46	.44
9.0	.55	.48	.44	.55	.48	.43	.53	.47	.43	.52	.47	.43	.51	.46	.43	.41
10.0	.52	.45	.40	.51	.45	.40	.50	.44	.40	.49	.44	.40	.48	.43	.39	.38



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.70V I:0.7088A P:148.28W PF:0.9566 Freq:58.98Hz Lamp Flux:27366.7x1 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	.225	.128	.041	.218	.124	.039	.204	.117	.037	.191	.110	.035	.179	.104	.033		
2.0	.216	.119	.036	.210	.116	.036	.198	.110	.034	.186	.104	.033	.176	.099	.031		
3.0	.205	.109	.033	.199	.107	.032	.188	.102	.031	.178	.098	.030	.169	.094	.029		
4.0	.193	.100	.029	.188	.098	.029	.179	.095	.028	.170	.091	.028	.162	.088	.027		
5.0	.182	.093	.027	.178	.091	.027	.169	.088	.026	.162	.085	.025	.154	.082	.025		
6.0	.172	.086	.025	.168	.085	.024	.161	.082	.024	.154	.080	.023	.147	.077	.023		
7.0	.163	.080	.023	.159	.079	.023	.152	.077	.022	.146	.075	.022	.140	.073	.021		
8.0	.154	.075	.021	.151	.074	.021	.145	.072	.021	.139	.071	.020	.134	.069	.020		
9.0	.146	.071	.020	.143	.070	.020	.138	.068	.019	.133	.067	.019	.128	.065	.019		
10.0	.139	.067	.019	.136	.066	.018	.132	.064	.018	.127	.063	.018	.122	.062	.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	.159	.165	.150	.137	.113	.103	.095	.065	.060	.055	.021	.019	.018		
2.0	.180	.150	.125	.154	.129	.108	.106	.089	.075	.061	.052	.044	.020	.017	.014		
3.0	.170	.132	.102	.146	.114	.088	.100	.079	.062	.058	.046	.036	.019	.015	.012		
4.0	.161	.118	.085	.138	.102	.074	.095	.071	.052	.055	.042	.031	.018	.014	.010		
5.0	.153	.107	.073	.132	.092	.063	.091	.065	.045	.053	.038	.026	.017	.012	.009		
6.0	.146	.098	.063	.126	.085	.055	.087	.059	.039	.050	.035	.023	.016	.011	.008		
7.0	.140	.091	.056	.120	.079	.049	.083	.055	.035	.048	.033	.021	.016	.011	.007		
8.0	.134	.085	.051	.116	.074	.044	.080	.052	.032	.047	.031	.019	.015	.010	.006		
9.0	.129	.080	.047	.111	.069	.041	.077	.049	.029	.045	.029	.017	.015	.009	.006		
10.0	.124	.076	.043	.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:Jason
 Test Date:2024-12-14

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:218.70V I:0.7088A P:148.28W PF:0.9566 Freq:58.98Hz Lamp Flux:27366.7x1 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	11.4	12.6	11.7	12.8	13.0	11.2	12.3	11.5	12.6	12.8
3H	11.9	12.9	12.2	13.2	13.4	11.6	12.7	11.9	12.9	13.2
4H	12.0	13.0	12.3	13.3	13.6	11.7	12.7	12.1	13.0	13.3
6H	12.1	13.0	12.4	13.3	13.6	11.8	12.7	12.1	13.0	13.3
8H	12.1	13.0	12.4	13.3	13.6	11.8	12.7	12.1	13.0	13.3
12H	12.1	12.9	12.4	13.3	13.6	11.8	12.6	12.1	12.9	13.3
4H 2H	11.5	12.6	11.9	12.8	13.1	11.3	12.4	11.7	12.6	12.9
3H	12.1	13.0	12.5	13.3	13.7	11.9	12.8	12.3	13.1	13.4
4H	12.4	13.2	12.8	13.5	13.9	12.1	12.9	12.5	13.3	13.6
6H	12.5	13.2	12.9	13.6	14.0	12.2	12.9	12.7	13.3	13.7
8H	12.5	13.2	13.0	13.6	14.0	12.3	12.9	12.7	13.3	13.7
12H	12.5	13.1	13.0	13.5	14.0	12.2	12.8	12.7	13.3	13.7
8H 4H	12.4	13.0	12.8	13.4	13.8	12.1	12.8	12.6	13.2	13.6
6H	12.6	13.1	13.1	13.6	14.0	12.3	12.9	12.8	13.3	13.8
8H	12.6	13.1	13.1	13.6	14.1	12.4	12.8	12.9	13.3	13.8
12H	12.7	13.1	13.2	13.6	14.1	12.4	12.8	12.9	13.3	13.8
12H 4H	12.3	12.9	12.8	13.4	13.8	12.1	12.7	12.6	13.1	13.6
6H	12.6	13.0	13.1	13.5	14.0	12.3	12.8	12.8	13.2	13.7
8H	12.6	13.0	13.1	13.5	14.0	12.4	12.8	12.9	13.3	13.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 1.0					+ 0.8 / - 1.1				
1.5H	+ 0.8 / - 0.6					+ 0.9 / - 0.7				
2.0H	+ 1.5 / - 1.2					+ 1.5 / - 1.2				

CIE Pub.117, 27367 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.5)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.70V I:0.7088A P:148.28W PF:0.9566 Freq:58.98Hz Lamp Flux:27366.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

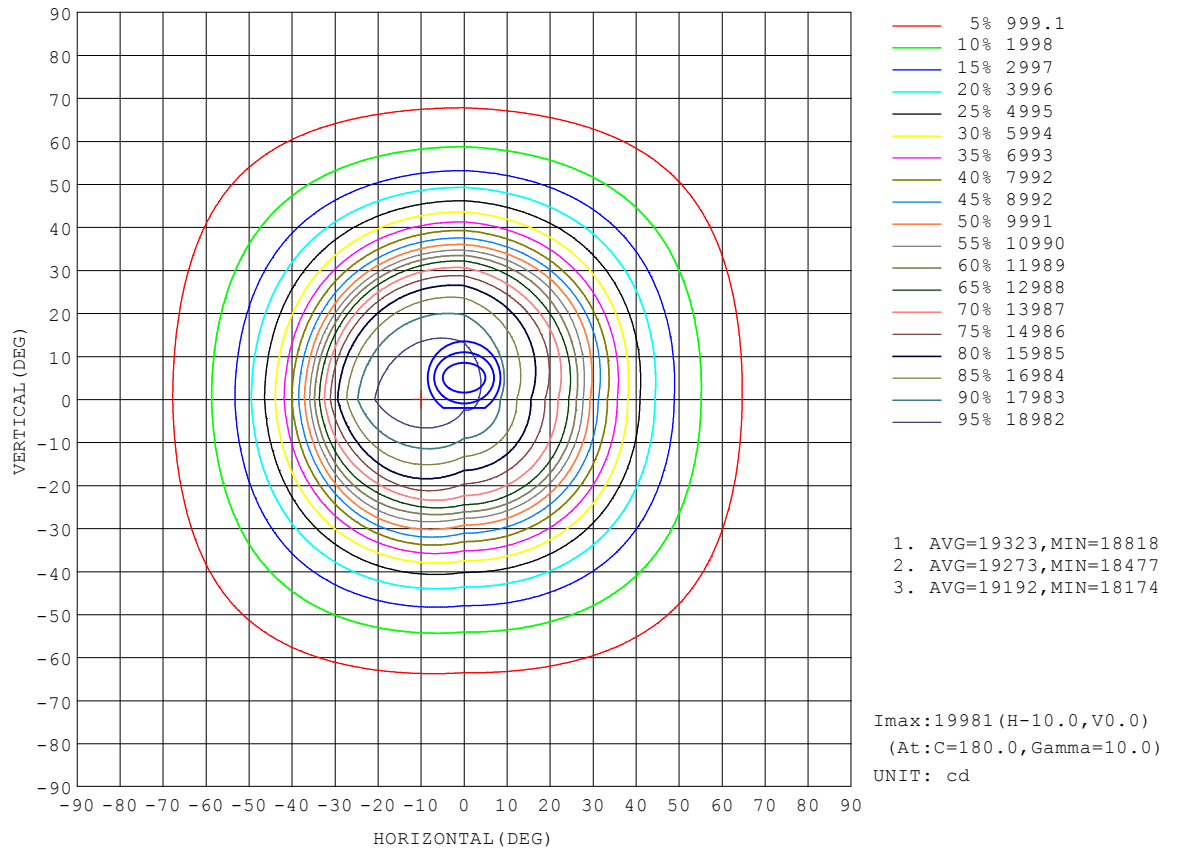
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	59	72	64	59	71	64	59	54
0.80	82	74	68	81	73	68	80	72	68	62
1.00	89	81	76	88	80	75	86	80	75	69
1.25	94	87	82	93	86	81	90	85	80	75
1.50	98	91	86	96	90	86	94	88	84	78
2.00	103	97	92	101	95	91	98	93	90	83
2.50	105	100	96	103	98	95	99	96	92	85
3.00	107	103	99	105	101	98	101	98	95	87
4.00	110	106	103	108	104	101	104	101	98	90
5.00	112	108	106	109	106	104	105	103	101	92
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: Jason
 Test Date: 2024-12-14

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:218.70V I:0.7088A P:148.28W PF:0.9566 Freq:58.98Hz Lamp Flux:27366.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

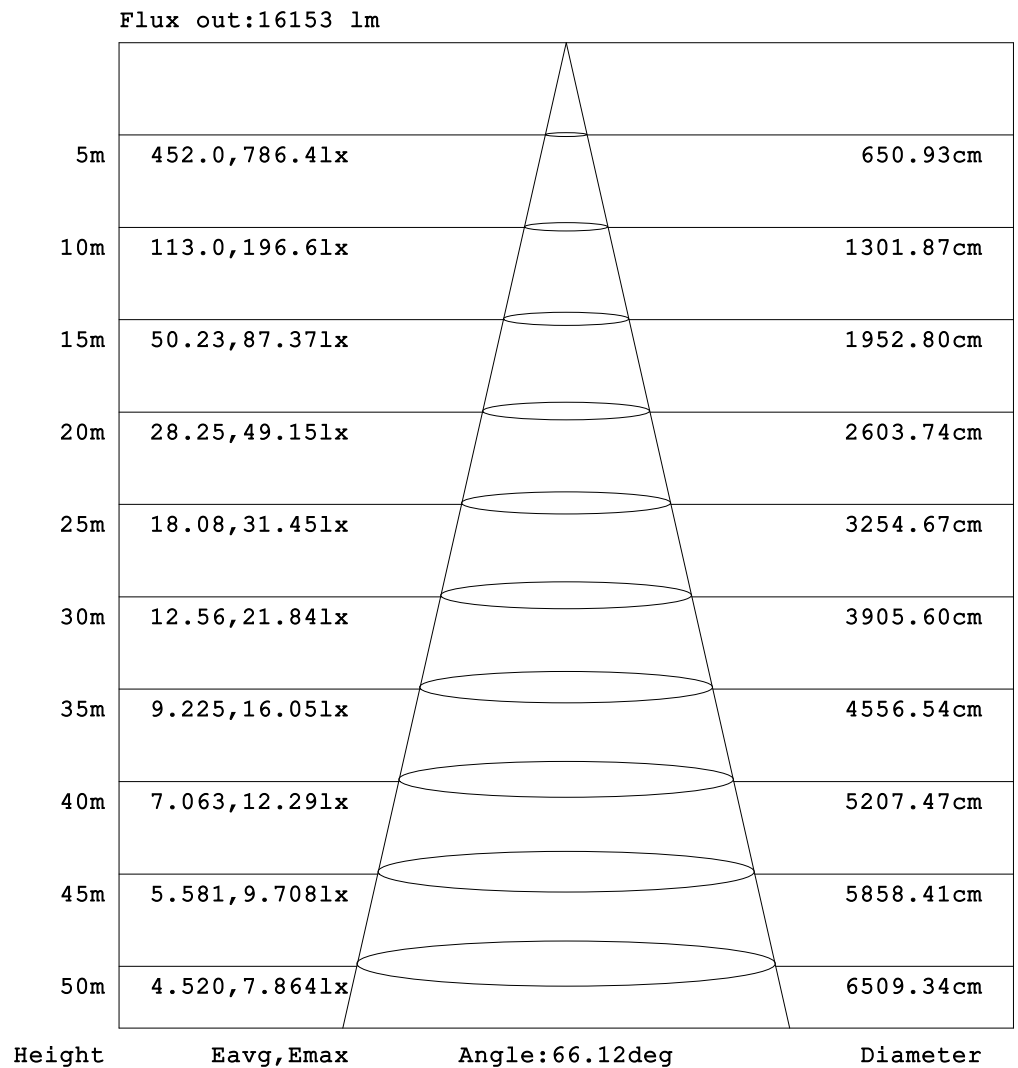


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-14

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:218.70V I:0.7088A P:148.28W PF:0.9566 Freq:58.98Hz Lamp Flux:27366.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



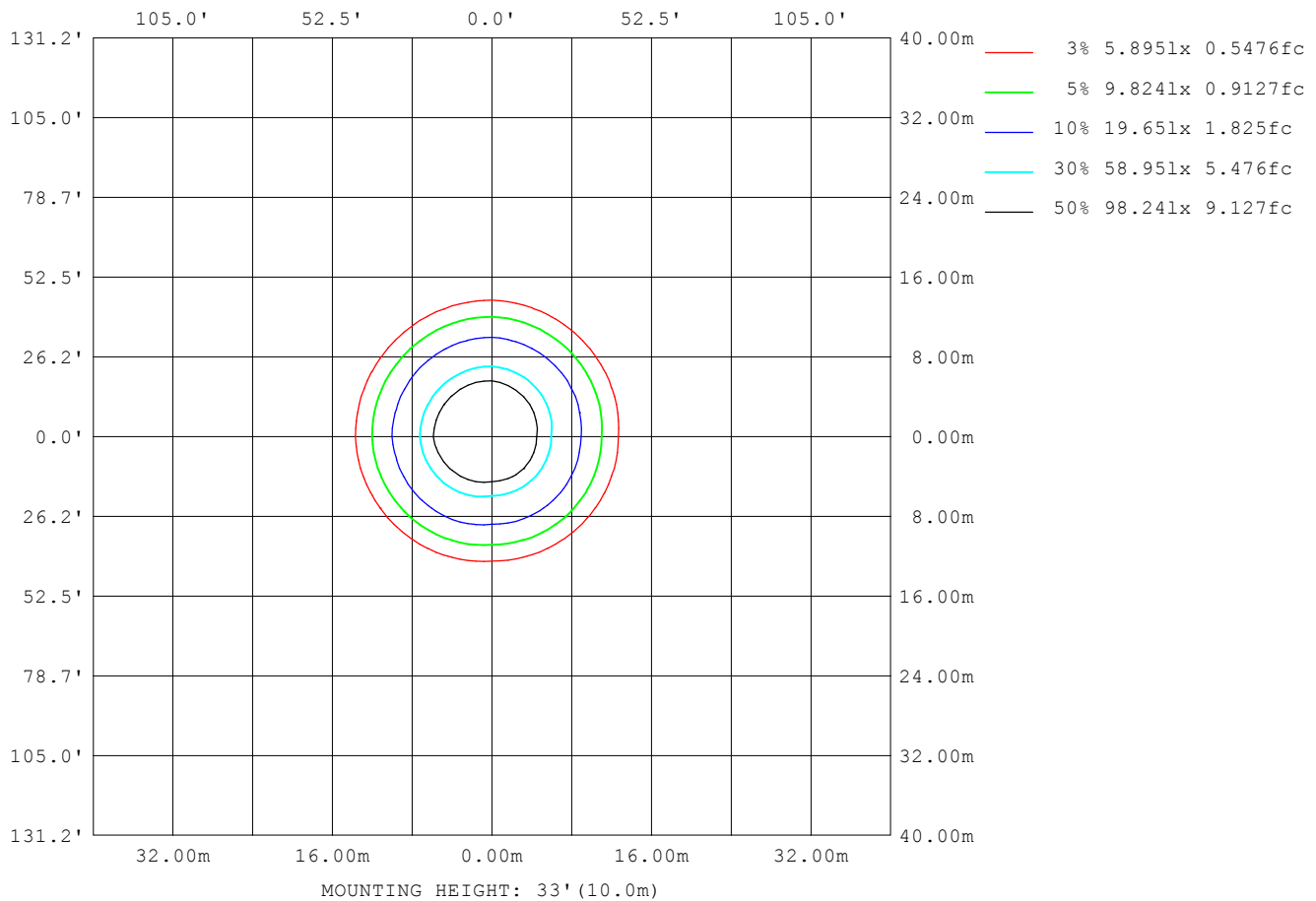
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.70V I:0.7088A P:148.28W PF:0.9566 Freq:58.98Hz Lamp Flux:27366.7x1 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:Jason
Test Date:2024-12-14

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:218.70V I:0.7088A P:148.28W PF:0.9566 Freq:58.98Hz Lamp Flux:27366.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

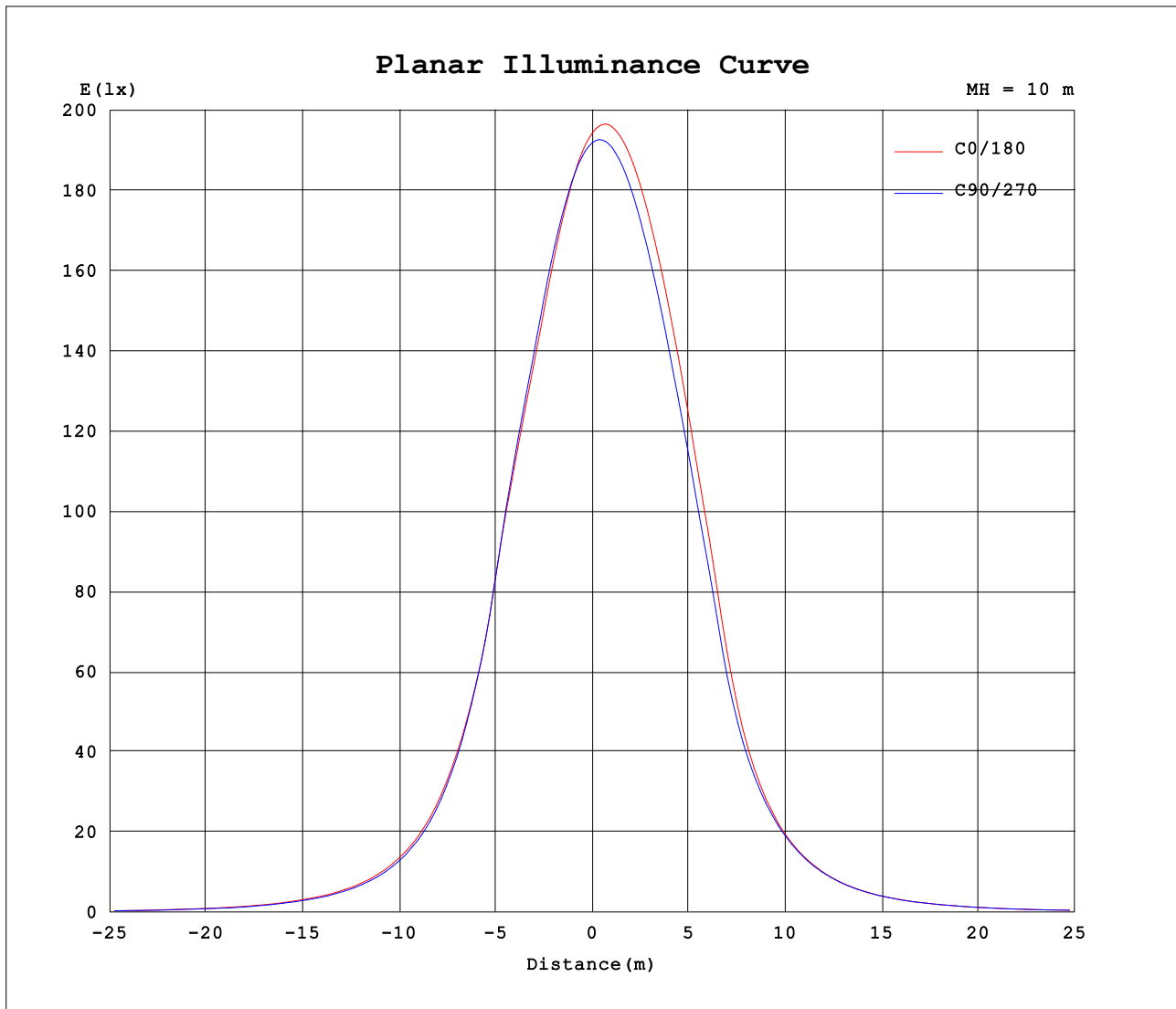
AvgL	cd/m2
L_0~180 (65) av	26078
L_0~180 (75) av	17644
L_0~180 (85) av	11678
L_90~270 (65) av	25232
L_90~270 (75) av	17345
L_90~270 (85) av	12737
L_45 (65) av	25740
L_45 (75) av	17590
L_45 (85) av	12473

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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: Jason
Test Date: 2024-12-14

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:218.70V I:0.7088A P:148.28W PF:0.9566 Freq:58.98Hz Lamp Flux:27366.7x1 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	1944	1919	1944	1919															
5	1869	1868	1986	1938															
10	1759	1779	1998	1924															
15	1614	1647	1978	1877															
20	1460	1487	1913	1790															
25	1265	1270	1790	1651															
30	959	959	1565	1432															
35	726	709	1179	1071															
40	529	507	801	759															
45	384	364	553	541															
50	278	262	384	378															
55	201	188	263	262															
60	142	130	182	185															
65	97.3	89.6	123	124															
70	64.2	58.9	82.8	83.8															
75	40.2	37.1	51.2	52.7															
80	21.5	18.7	29.8	31.7															
85	8.31	7.96	12.0	14.2															
90	7.25	7.19	4.98	4.90															
95	6.72	6.69	5.27	5.18															
100	6.45	6.45	5.66	5.56															
105	6.49	6.51	6.11	5.99															
110	6.85	6.88	6.67	6.55															
115	7.58	7.58	7.34	7.24															
120	8.66	8.65	8.12	8.07															
125	9.91	9.92	9.02	9.03															
130	11.2	11.3	10.1	10.1															
135	12.6	12.8	11.2	11.4															
140	14.0	14.4	12.5	12.7															
145	15.4	16.0	13.8	14.1															
150	16.8	17.6	15.0	15.6															
155	18.1	19.1	16.3	17.0															
160	19.3	20.4	17.5	18.3															
165	20.2	21.5	18.6	19.6															
170	20.9	22.2	19.6	20.7															
175	21.3	22.7	20.5	21.7															
180	21.1	22.5	21.2	22.4															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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: