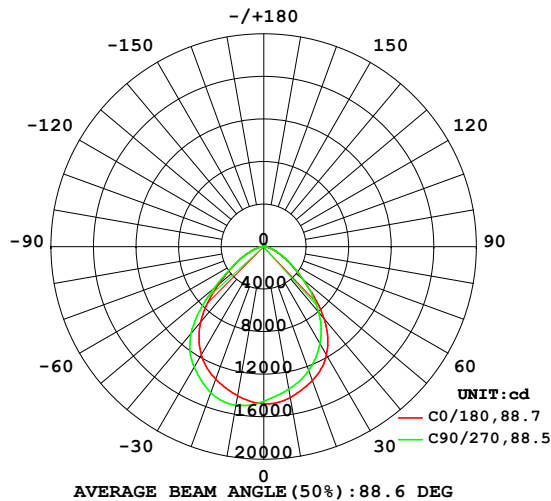


LUMINAIRE PHOTOMETRIC TEST REPORT

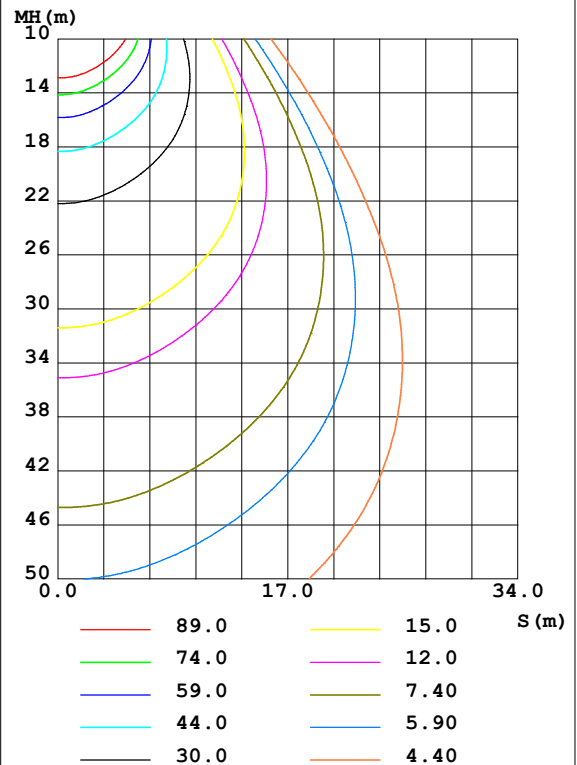
Test:U:218.61V I:0.9617A P:200.13W PF:0.9520 Freq:58.98Hz Lamp Flux:30340.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.60 lm/W			
MODEL		Imax(cd)	15135	S/MH(C0/180)	1.19
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	30341	η UP,DN(C0-180)	1.2,45.7
NOMINAL FLUX(lm)	30340.5	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,51.9
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:Jason
Test Date:2024-12-17

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	1440	1361	1423	1513					0- 10	1384	1384	4.56, 4.56
20	1339	1239	1326	1461					10- 20	3934	5319	17.5, 17.5
30	1179	1057	1175	1308					20- 30	5840	11159	36.8, 36.8
40	880.7	804.4	922.4	1063					30- 40	6626	17785	58.6, 58.6
50	481.2	488.6	561.5	614.1					40- 50	5603	23388	77.1, 77.1
60	240.4	253.8	288.1	285.4					50- 60	3456	26844	88.5, 88.5
70	107.3	116.2	131.0	123.7					60- 70	1832	28676	94.5, 94.5
80	29.86	32.20	43.64	40.71					70- 80	797.0	29473	97.1, 97.1
90	9.331	9.259	5.653	5.503					80- 90	165.7	29639	97.7, 97.7
100	8.329	8.375	6.567	6.432					90-100	80.14	29719	98, 98
110	8.745	9.001	8.055	7.884					100-110	83.01	29802	98.2, 98.2
120	10.04	10.51	9.911	9.664					110-120	91.11	29893	98.5, 98.5
130	11.85	12.51	12.09	11.72					120-130	98.56	29992	98.9, 98.9
140	13.92	14.69	14.35	13.88					130-140	101.4	30093	99.2, 99.2
150	16.00	16.73	16.32	15.91					140-150	95.50	30189	99.5, 99.5
160	17.92	18.56	18.16	17.82					150-160	79.28	30268	99.8, 99.8
170	19.42	19.89	19.69	19.40					160-170	53.40	30322	99.9, 99.9
180	20.05	20.31	20.24	20.15					170-180	18.98	30341	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 20842 lm

%lum = 68.7%

%lamp = 68.7%

Conical surface Flux(120deg): 26844 lm

%lum = 88.5%

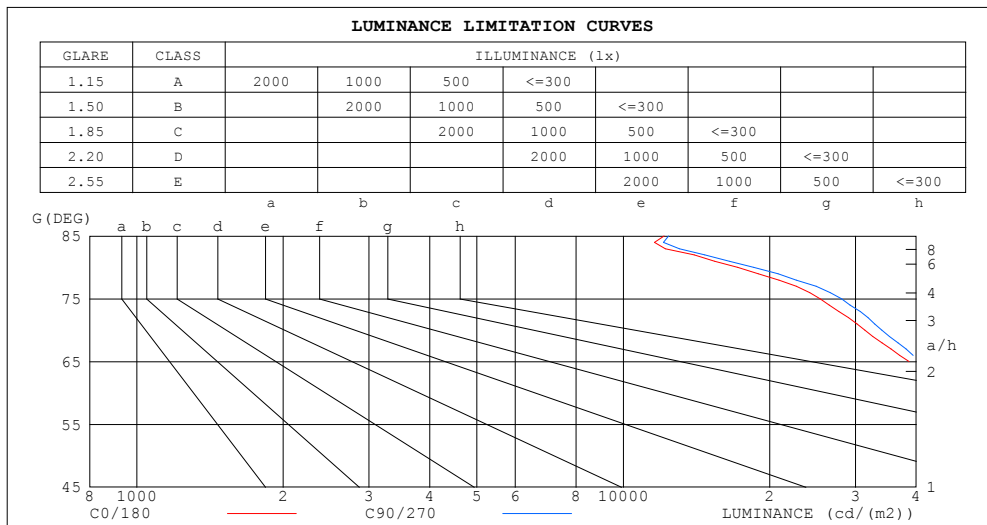
%lamp = 88.5%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-17

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:218.61V I:0.9617A P:200.13W PF:0.9520 Freq:58.98Hz Lamp Flux:30340.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	12137	12390
80	17196	18542
75	25356	28085
70	31376	33984
65	38636	40962
60	48090	50760
55	59094	62079
50	74854	76014
45	95275	91328

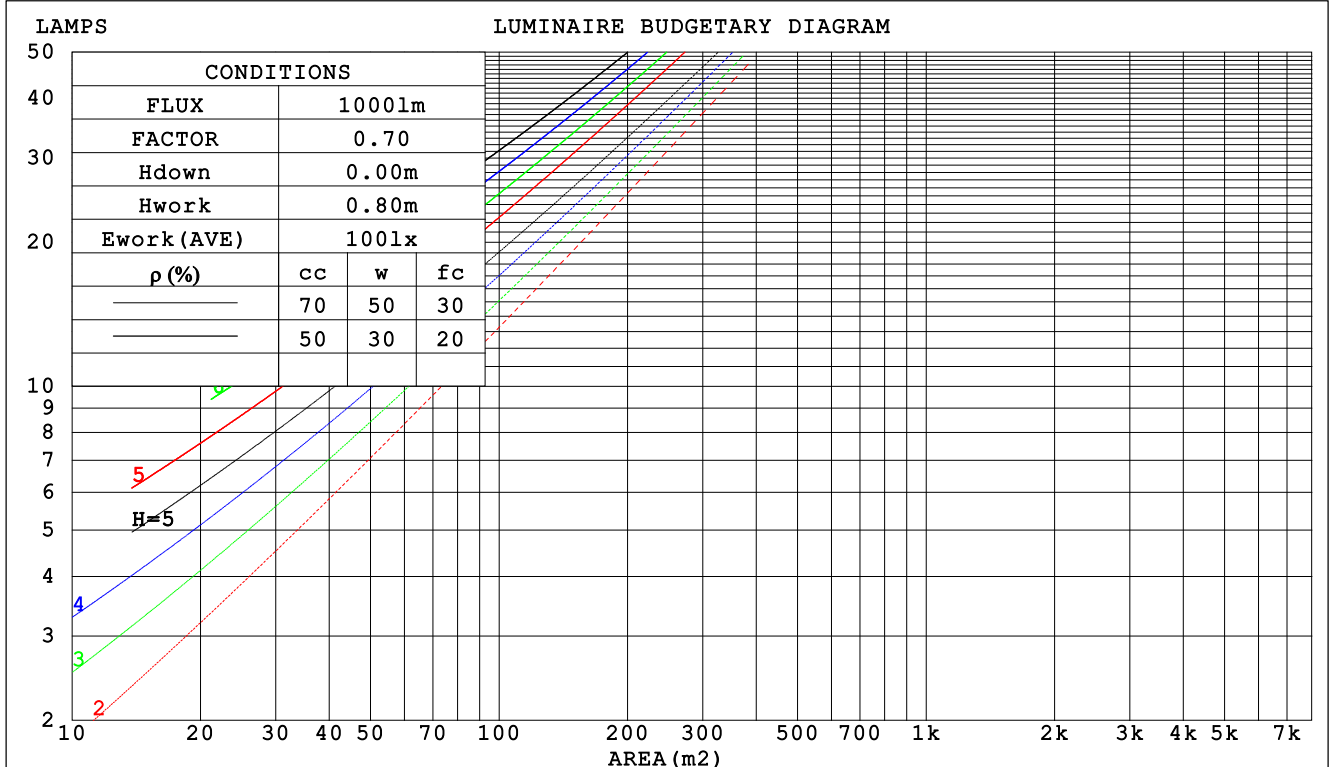
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.61V I:0.9617A P:200.13W PF:0.9520 Freq:58.98Hz Lamp Flux:30340.5x1 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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.06	1.03	.00	1.04	1.01	.98	.99	.97	.95	.95	.93	.91	.91	.90	.88	.86
2.0	.95	.90	.85	.93	.88	.84	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.85	.78	.73	.84	.77	.72	.81	.75	.71	.78	.73	.69	.75	.71	.68	.66
4.0	.77	.69	.63	.76	.68	.63	.73	.67	.62	.70	.65	.61	.68	.64	.60	.58
5.0	.70	.62	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54	.62	.57	.53	.51
6.0	.63	.55	.50	.62	.55	.49	.60	.54	.49	.59	.53	.48	.57	.52	.48	.46
7.0	.58	.50	.45	.57	.50	.44	.55	.49	.44	.54	.48	.43	.52	.47	.43	.41
8.0	.53	.46	.40	.53	.45	.40	.51	.44	.40	.50	.44	.39	.48	.43	.39	.37
9.0	.49	.42	.37	.49	.41	.36	.47	.41	.36	.46	.40	.36	.45	.40	.36	.34
10.0	.46	.38	.33	.45	.38	.33	.44	.37	.33	.43	.37	.33	.42	.36	.33	.31



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.61V I:0.9617A P:200.13W PF:0.9520 Freq:58.98Hz Lamp Flux:30340.5x1 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	.250	.142	.045	.242	.138	.044	.228	.131	.042	.215	.124	.040	.202	.117	.038		
2.0	.241	.132	.040	.234	.129	.040	.222	.123	.038	.210	.118	.037	.200	.113	.036		
3.0	.228	.121	.036	.222	.119	.036	.211	.114	.035	.201	.110	.034	.192	.106	.033		
4.0	.214	.111	.033	.209	.109	.032	.200	.106	.032	.190	.102	.031	.182	.099	.030		
5.0	.201	.103	.030	.197	.101	.029	.188	.098	.029	.180	.095	.028	.173	.092	.028		
6.0	.189	.095	.027	.185	.094	.027	.178	.091	.026	.170	.089	.026	.164	.086	.026		
7.0	.178	.088	.025	.175	.087	.025	.168	.085	.024	.161	.083	.024	.155	.081	.024		
8.0	.168	.082	.023	.165	.081	.023	.159	.079	.023	.153	.077	.022	.147	.076	.022		
9.0	.159	.077	.021	.156	.076	.021	.150	.074	.021	.145	.073	.021	.140	.071	.021		
10.0	.151	.072	.020	.148	.071	.020	.143	.070	.020	.138	.068	.019	.133	.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	.106	.108	.089	.074	.062	.052	.043	.020	.017	.014	
3.0	.174	.132	.098	.149	.114	.085	.103	.079	.060	.059	.046	.035	.019	.015	.012	
4.0	.166	.118	.082	.143	.102	.071	.098	.071	.050	.057	.042	.030	.018	.014	.010	
5.0	.159	.108	.070	.137	.093	.061	.094	.065	.043	.054	.038	.025	.018	.012	.008	
6.0	.152	.099	.061	.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	.083	.052	.030	.049	.031	.018	.016	.010	.006	
9.0	.135	.081	.045	.116	.071	.039	.080	.050	.028	.047	.029	.017	.015	.010	.006	
10.0	.129	.077	.042	.112	.067	.037	.077	.047	.026	.045	.028	.016	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2024-12-17

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:218.61V I:0.9617A P:200.13W PF:0.9520 Freq:58.98Hz Lamp Flux:30340.5x1 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	14.3	15.6	14.6	15.8	16.0	14.3	15.6	14.6	15.8	16.0
3H	14.7	15.9	15.1	16.2	16.5	14.8	16.0	15.1	16.3	16.5
4H	14.9	16.0	15.2	16.3	16.6	15.0	16.1	15.3	16.4	16.7
6H	14.9	16.0	15.3	16.3	16.6	15.0	16.1	15.4	16.4	16.7
8H	14.9	15.9	15.3	16.2	16.5	15.0	16.0	15.4	16.4	16.7
12H	14.9	15.8	15.2	16.2	16.5	15.0	16.0	15.4	16.3	16.6
4H 2H	14.5	15.6	14.8	15.9	16.2	14.5	15.6	14.8	15.9	16.2
3H	15.1	16.0	15.4	16.4	16.7	15.1	16.1	15.5	16.4	16.8
4H	15.3	16.2	15.7	16.5	16.9	15.4	16.3	15.8	16.6	17.0
6H	15.4	16.2	15.8	16.5	17.0	15.5	16.3	15.9	16.7	17.1
8H	15.4	16.1	15.8	16.5	16.9	15.5	16.2	16.0	16.6	17.1
12H	15.4	16.0	15.8	16.4	16.9	15.5	16.2	16.0	16.6	17.0
8H 4H	15.3	16.0	15.8	16.4	16.9	15.4	16.1	15.9	16.5	17.0
6H	15.5	16.1	15.9	16.5	17.0	15.6	16.2	16.1	16.6	17.1
8H	15.5	16.0	16.0	16.5	17.0	15.6	16.1	16.1	16.6	17.1
12H	15.5	15.9	16.0	16.4	16.9	15.6	16.1	16.1	16.6	17.1
12H 4H	15.3	15.9	15.7	16.4	16.8	15.4	16.1	15.9	16.5	16.9
6H	15.5	16.0	15.9	16.4	16.9	15.6	16.1	16.1	16.6	17.1
8H	15.5	15.9	16.0	16.4	16.9	15.6	16.1	16.1	16.5	17.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 1.0					+ 0.7 / - 0.8				
1.5H	+ 0.5 / - 0.5					+ 0.3 / - 0.4				
2.0H	+ 1.6 / - 1.2					+ 1.4 / - 1.2				

CIE Pub.117, 30341 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.9)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.61V I:0.9617A P:200.13W PF:0.9520 Freq:58.98Hz Lamp Flux:30340.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

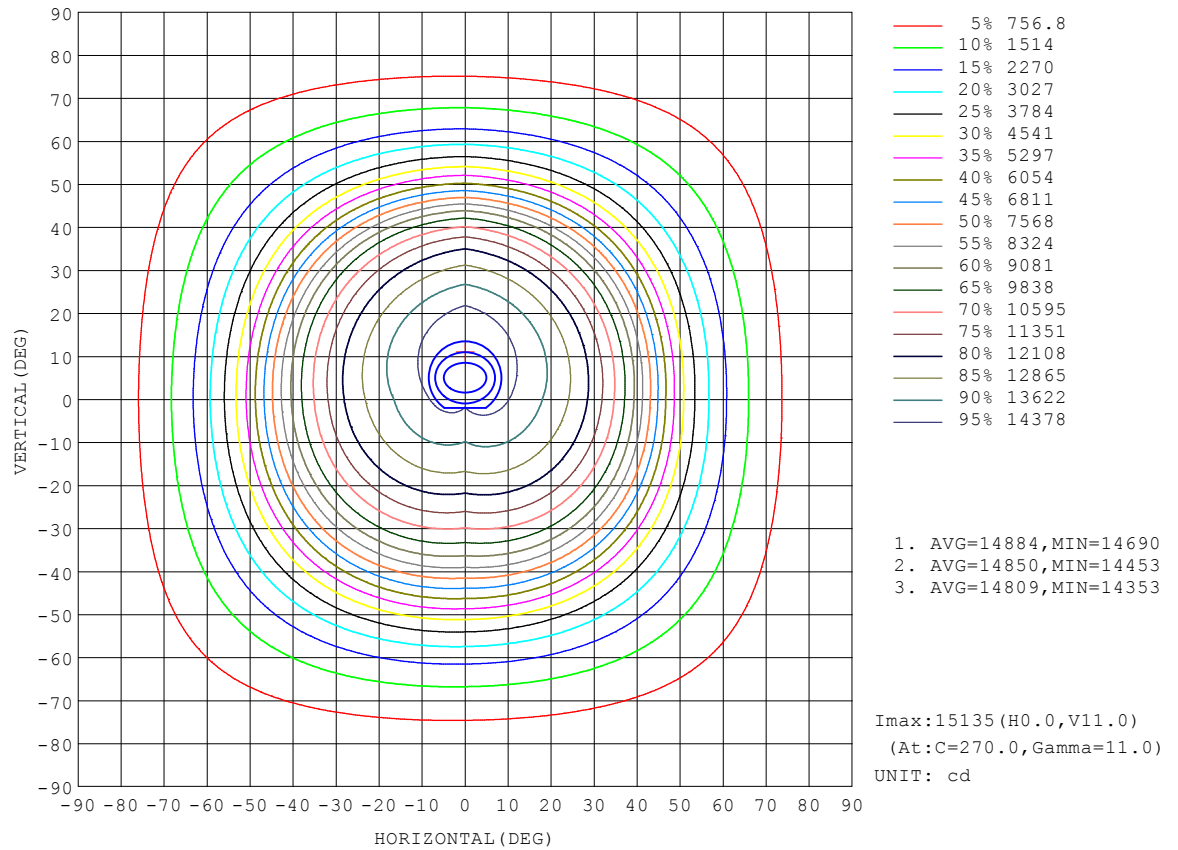
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	49	65	55	49	64	55	49	43
0.80	75	66	59	74	65	59	73	64	59	53
1.00	83	74	68	82	73	68	80	74	67	61
1.25	90	81	75	88	80	75	86	79	74	68
1.50	94	86	81	92	85	80	90	83	79	72
2.00	100	93	88	98	92	87	94	89	85	78
2.50	103	97	92	101	95	91	97	92	89	81
3.00	105	100	96	103	98	94	99	95	92	84
4.00	109	104	100	106	102	99	102	99	96	87
5.00	110	107	103	108	104	102	103	101	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: Jason
Test Date: 2024-12-17

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:218.61V I:0.9617A P:200.13W PF:0.9520 Freq:58.98Hz Lamp Flux:30340.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

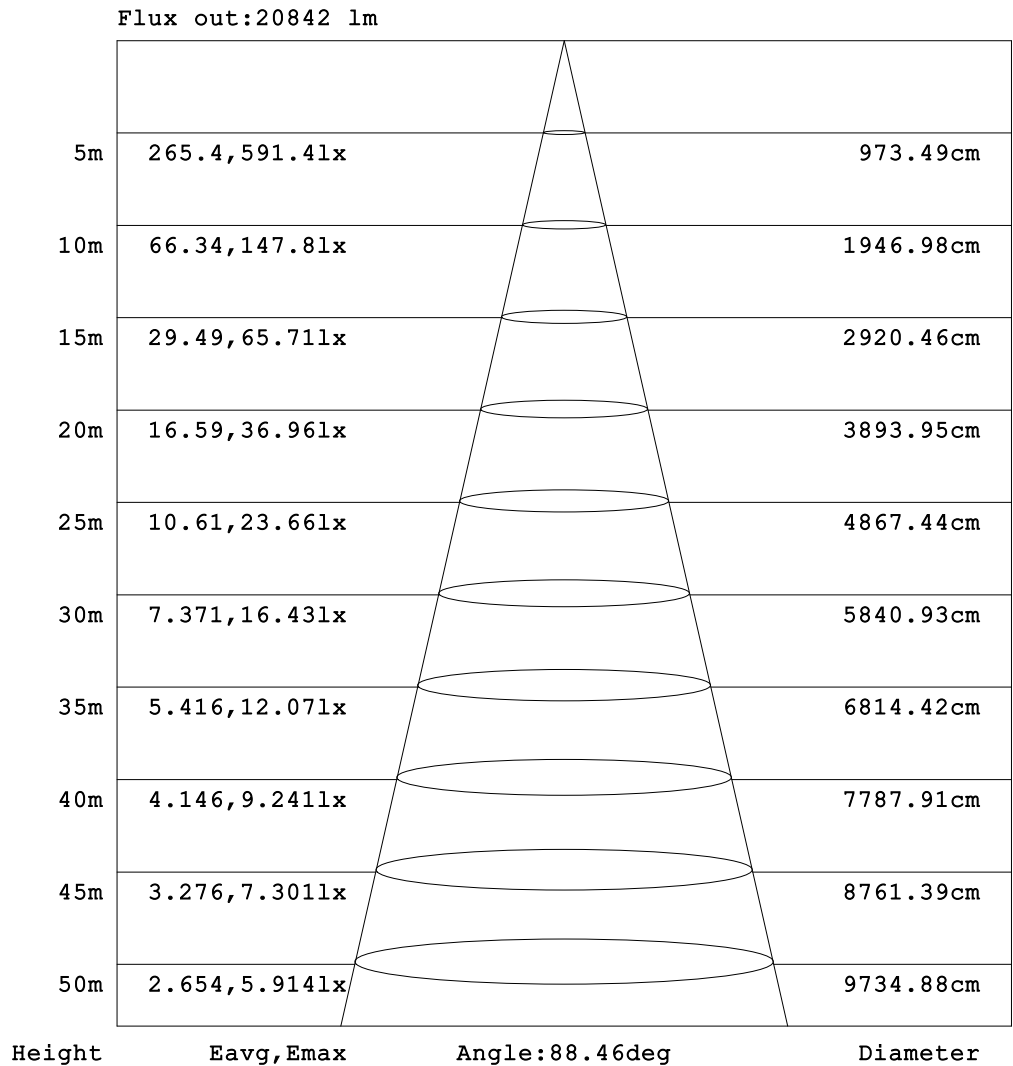


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-17

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:218.61V I:0.9617A P:200.13W PF:0.9520 Freq:58.98Hz Lamp Flux:30340.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



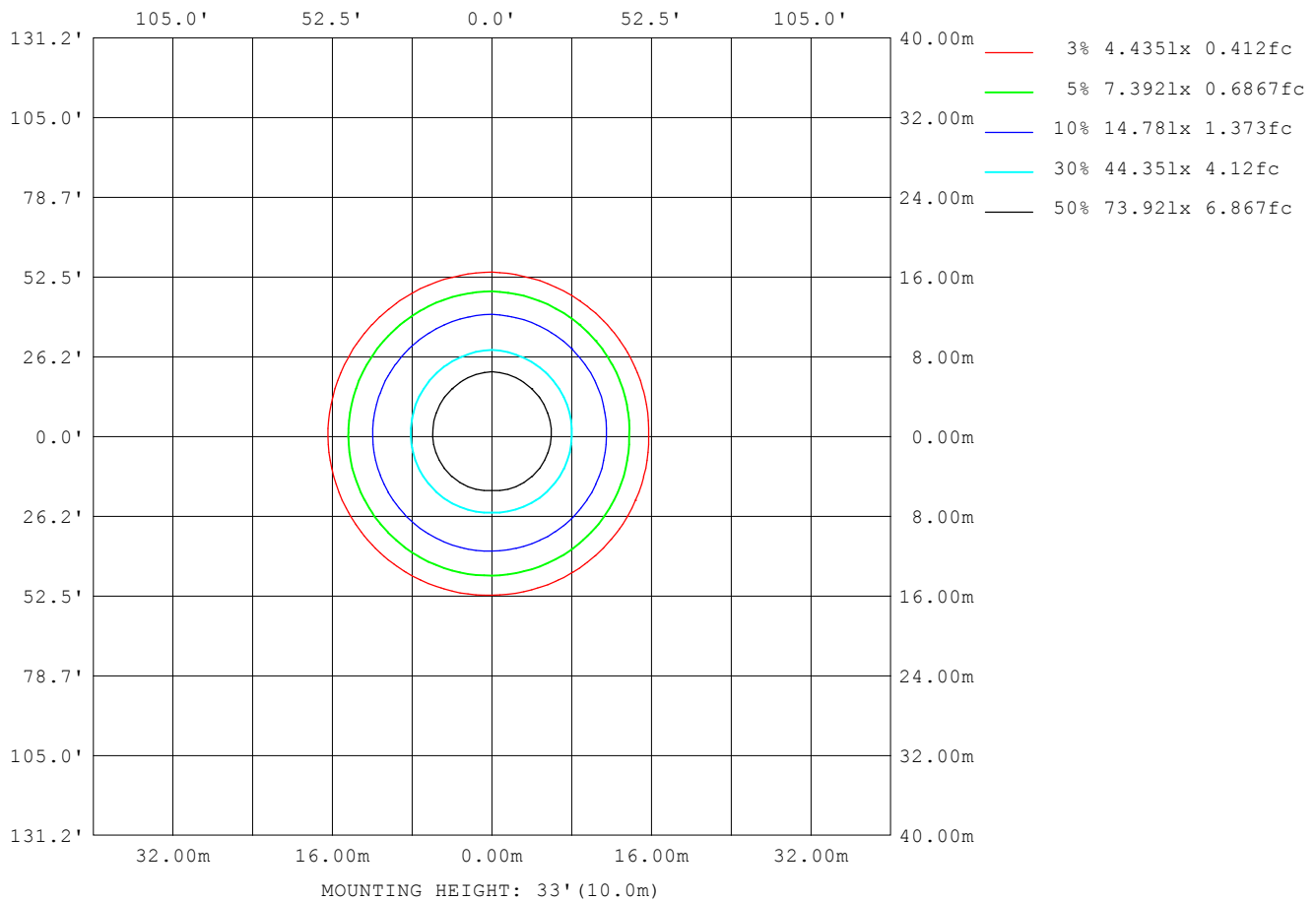
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2024-12-17

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:218.61V I:0.9617A P:200.13W PF:0.9520 Freq:58.98Hz Lamp Flux:30340.5x1 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:Jason
 Test Date:2024-12-17

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:218.61V I:0.9617A P:200.13W PF:0.9520 Freq:58.98Hz Lamp Flux:30340.5x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

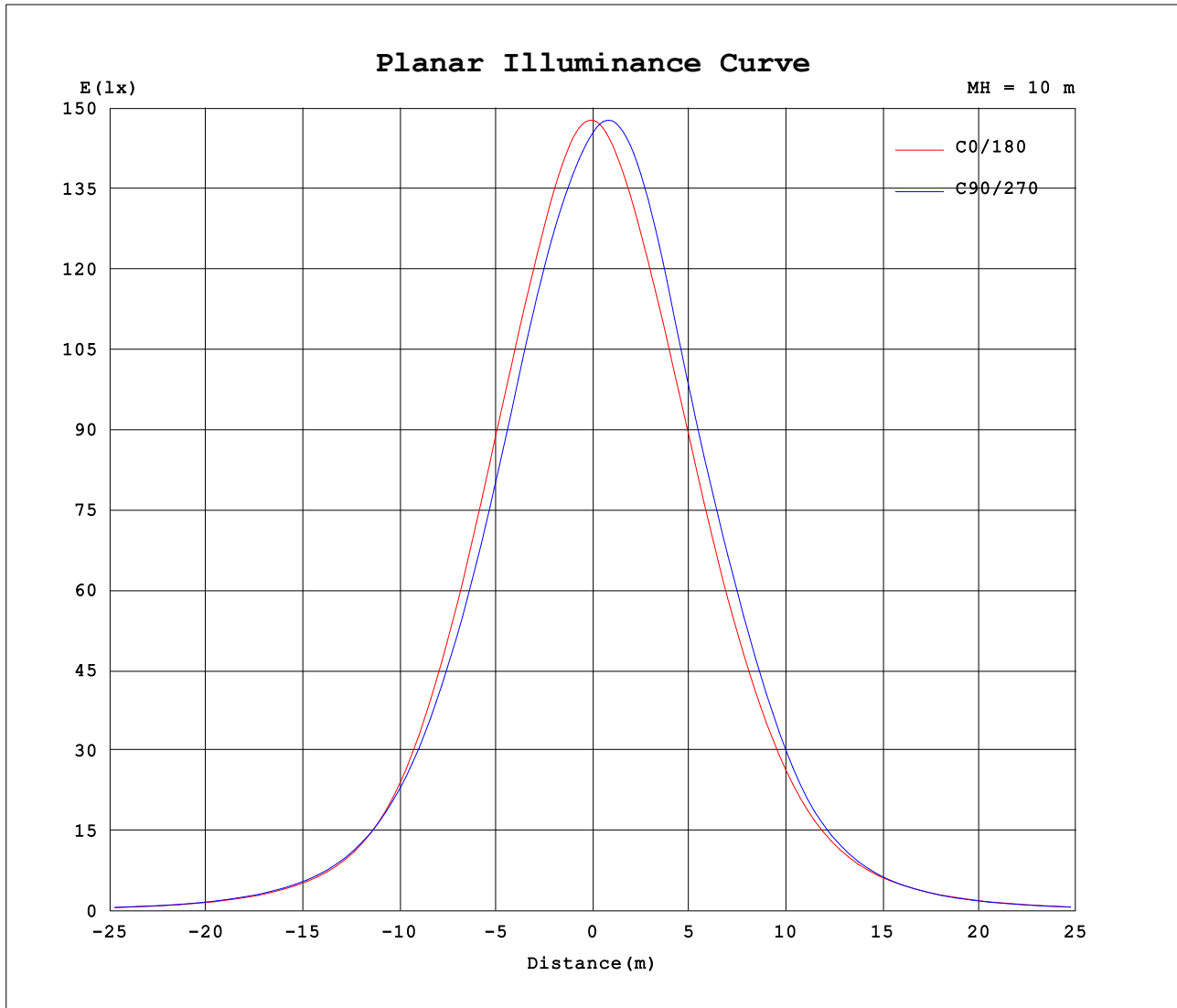
AvgL	cd/m2
L_0~180 (65) av	42759
L_0~180 (75) av	28791
L_0~180 (85) av	12926
L_90~270 (65) av	43027
L_90~270 (75) av	28816
L_90~270 (85) av	12611
L_45 (65) av	43185
L_45 (75) av	29021
L_45 (85) av	12778

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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: 2024-12-17

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:218.61V I:0.9617A P:200.13W PF:0.9520 Freq:58.98Hz Lamp Flux:30340.5x1 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	1478	1455	1478	1455															
5	1472	1407	1460	1495															
10	1440	1361	1423	1513															
15	1393	1308	1378	1503															
20	1339	1239	1326	1461															
25	1272	1155	1262	1390															
30	1179	1057	1175	1308															
35	1050	943	1063	1210															
40	881	804	922	1063															
45	674	646	748	854															
50	481	489	561	614															
55	339	356	405	422															
60	240	254	288	285															
65	163	173	198	191															
70	107	116	131	124															
75	65.6	72.7	83.4	76.5															
80	29.9	32.2	43.6	40.7															
85	10.6	10.8	12.0	11.2															
90	9.33	9.26	5.65	5.50															
95	8.65	8.64	6.03	5.89															
100	8.33	8.38	6.57	6.43															
105	8.39	8.53	7.24	7.09															
110	8.75	9.00	8.05	7.88															
115	9.30	9.68	8.95	8.75															
120	10.0	10.5	9.91	9.66															
125	10.9	11.5	11.0	10.6															
130	11.8	12.5	12.1	11.7															
135	12.9	13.6	13.2	12.8															
140	13.9	14.7	14.3	13.9															
145	15.0	15.7	15.4	14.9															
150	16.0	16.7	16.3	15.9															
155	17.0	17.7	17.2	16.9															
160	17.9	18.6	18.2	17.8															
165	18.8	19.3	19.0	18.7															
170	19.4	19.9	19.7	19.4															
175	19.9	20.2	20.1	19.9															
180	20.1	20.3	20.2	20.2															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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: