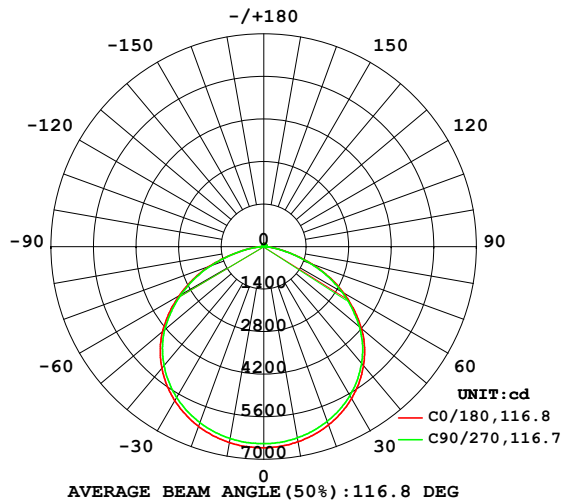


LUMINAIRE PHOTOMETRIC TEST REPORT

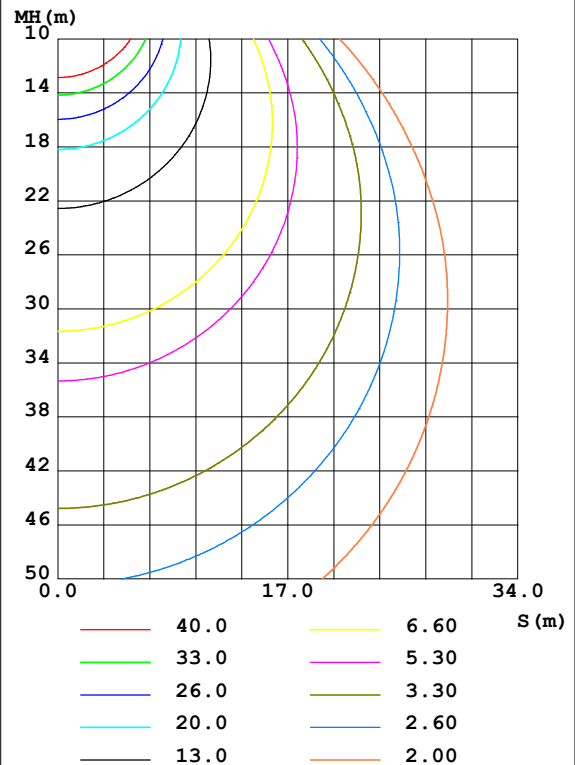
Test:U:218.42V I:0.7015A P:148.27W PF:0.9677 Freq:49.99Hz Lamp Flux:19784.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.43 lm/W			
MODEL		I _{max} (cd)	6617	S/MH (C0/180)	1.32
NOMINAL POWER (W)	150W	LOR (%)	100.0	S/MH (C90/270)	1.31
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	19784	η UP, DN (C0-180)	1.2, 47.9
NOMINAL FLUX (lm)	19784.4	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 49.9
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	220	η down (%)	97.7	CIBSE SHR MAX	1.50

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: 2024-03-01

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_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	6519	6389	6545	6409					0- 10	621.3	621.3	3.14,3.14
20	6241	6118	6292	6161					10- 20	1796	2417	12.2,12.2
30	5777	5665	5856	5732					20- 30	2769	5186	26.2,26.2
40	5109	5011	5220	5110					30- 40	3417	8603	43.5,43.5
50	4200	4110	4350	4255					40- 50	3627	12229	61.8,61.8
60	3019	2955	3207	3136					50- 60	3278	15507	78.4,78.4
70	1689	1639	1906	1850					60- 70	2417	17924	90.6,90.6
80	473.1	457.2	610.2	599.2					70- 80	1172	19097	96.5,96.5
90	80.01	78.96	54.38	53.07					80- 90	238.8	19335	97.7,97.7
100	67.48	66.46	45.58	44.16					90-100	62.90	19398	98,98
110	67.37	66.54	54.44	52.77					100-110	61.01	19459	98.4,98.4
120	71.47	70.73	65.10	63.12					110-120	63.32	19523	98.7,98.7
130	76.84	76.11	76.05	73.66					120-130	64.14	19587	99,99
140	83.65	82.88	85.79	83.06					130-140	61.72	19649	99.3,99.3
150	90.40	89.62	93.36	90.27					140-150	54.87	19703	99.6,99.6
160	96.20	95.38	98.78	95.54					150-160	43.34	19747	99.8,99.8
170	100.6	99.91	102.4	98.98					160-170	27.90	19775	100,100
180	102.6	102.0	104.4	100.7					170-180	9.671	19784	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 10422 lm

%lum = 52.7%

%lamp = 52.7%

Conical surface Flux(120deg): 15507 lm

%lum = 78.4%

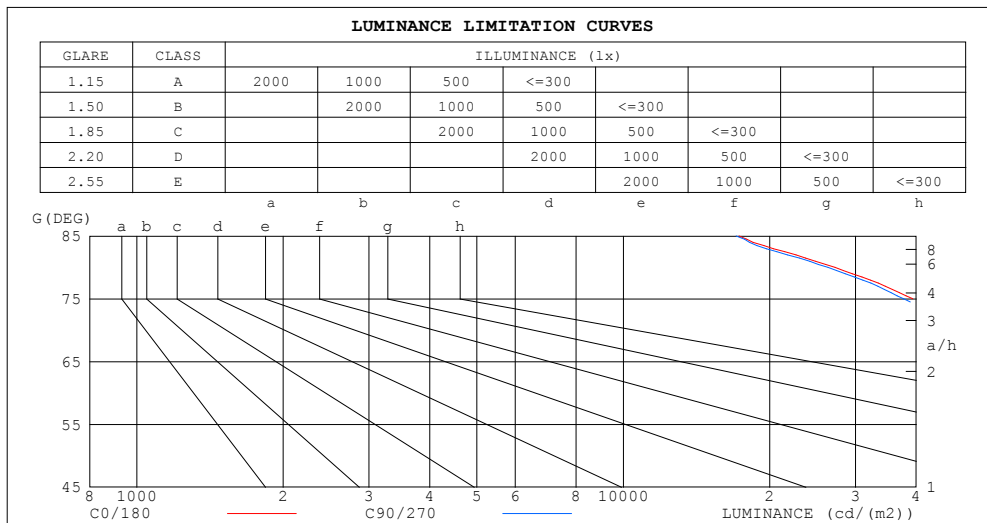
%lamp = 78.4%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.42V I:0.7015A P:148.27W PF:0.9677 Freq:49.99Hz Lamp Flux:19784.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	17293	17056
80	27247	26330
75	39344	37659
70	49377	47933
65	56285	55125
60	60376	59101
55	63204	61886
50	65343	63937
45	66383	65064

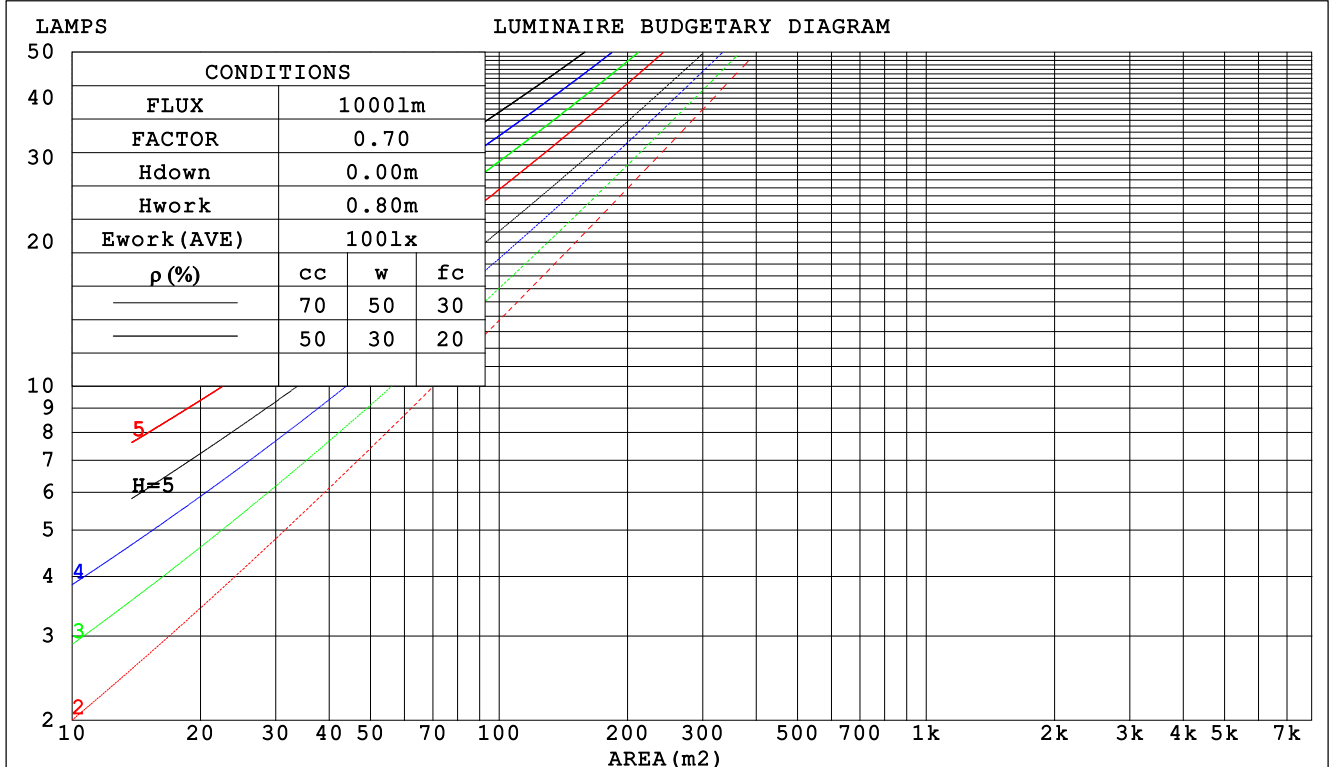
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:218.42V I:0.7015A P:148.27W PF:0.9677 Freq:49.99Hz Lamp Flux:19784.4x1 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	1.19	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	.00	.96	1.01	.98	.94	.97	.94	.91	.92	.90	.88	.89	.87	.85	.82
2.0	.91	.84	.78	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.65	.78	.70	.64	.74	.68	.63	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.62	.55	.69	.61	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.63	.54	.47	.61	.53	.47	.59	.52	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.51	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.35	.33
8.0	.46	.38	.32	.46	.38	.32	.44	.37	.32	.43	.36	.31	.41	.35	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.37	.30	.26	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.42V I:0.7015A P:148.27W PF:0.9677 Freq:49.99Hz Lamp Flux:19784.4x1 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	.299	.170	.054	.291	.166	.053	.277	.159	.051	.264	.152	.049	.251	.146	.047	
2.0	.285	.156	.048	.278	.153	.047	.266	.148	.046	.254	.142	.045	.243	.137	.043	
3.0	.266	.141	.042	.260	.139	.042	.248	.135	.041	.238	.130	.040	.228	.126	.039	
4.0	.246	.128	.038	.241	.126	.037	.231	.122	.037	.221	.119	.036	.213	.116	.035	
5.0	.228	.116	.034	.224	.115	.033	.215	.112	.033	.206	.109	.032	.198	.106	.032	
6.0	.212	.106	.030	.208	.105	.030	.200	.102	.030	.192	.100	.029	.185	.097	.029	
7.0	.198	.098	.028	.194	.097	.028	.187	.094	.027	.180	.092	.027	.173	.090	.026	
8.0	.185	.090	.025	.182	.089	.025	.175	.087	.025	.169	.085	.025	.163	.084	.024	
9.0	.173	.084	.023	.170	.083	.023	.164	.081	.023	.159	.080	.023	.153	.078	.023	
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.150	.074	.021	.145	.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	.169	.149	.131	.115	.103	.091	.066	.059	.053	.021	.019	.017	
2.0	.189	.149	.116	.162	.129	.101	.111	.089	.070	.064	.052	.041	.021	.017	.013	
3.0	.181	.132	.093	.155	.114	.080	.107	.079	.056	.062	.046	.033	.020	.015	.011	
4.0	.174	.119	.076	.149	.103	.066	.103	.071	.047	.059	.042	.028	.019	.014	.009	
5.0	.167	.108	.065	.143	.094	.057	.099	.065	.040	.057	.038	.024	.018	.013	.008	
6.0	.160	.100	.057	.137	.087	.050	.095	.061	.035	.055	.036	.021	.018	.012	.007	
7.0	.153	.093	.051	.132	.081	.045	.091	.057	.032	.053	.033	.019	.017	.011	.006	
8.0	.147	.087	.047	.126	.076	.041	.087	.053	.029	.051	.031	.017	.016	.010	.006	
9.0	.141	.082	.043	.121	.072	.038	.084	.050	.027	.049	.030	.016	.016	.010	.005	
10.0	.135	.078	.040	.116	.068	.035	.081	.048	.025	.047	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.250m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:218.42V I:0.7015A P:148.27W PF:0.9677 Freq:49.99Hz Lamp Flux:19784.4x1 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	2H	27.2	28.7	27.5	28.9	29.2	27.1	28.6	27.4	28.8	29.1
	3H	28.5	29.8	28.8	30.1	30.4	28.4	29.7	28.7	30.0	30.3
	4H	28.9	30.2	29.2	30.5	30.8	28.7	30.0	29.1	30.3	30.6
	6H	29.0	30.2	29.4	30.6	30.9	28.9	30.1	29.3	30.4	30.8
	8H	29.0	30.2	29.4	30.5	30.9	28.9	30.1	29.3	30.4	30.7
	12H	29.0	30.1	29.4	30.5	30.8	28.9	30.0	29.3	30.4	30.7
4H	2H	27.7	29.0	28.1	29.3	29.6	27.7	29.0	28.0	29.3	29.6
	3H	29.2	30.3	29.5	30.6	31.0	29.1	30.2	29.5	30.5	30.9
	4H	29.6	30.7	30.0	31.0	31.4	29.5	30.6	29.9	30.9	31.3
	6H	29.9	30.8	30.3	31.2	31.6	29.8	30.7	30.2	31.1	31.5
	8H	29.9	30.8	30.4	31.2	31.6	29.8	30.6	30.2	31.1	31.5
	12H	29.9	30.7	30.4	31.1	31.6	29.8	30.6	30.3	31.0	31.5
8H	4H	29.8	30.6	30.2	31.0	31.5	29.7	30.5	30.1	30.9	31.4
	6H	30.1	30.8	30.6	31.2	31.7	30.0	30.7	30.5	31.1	31.6
	8H	30.2	30.8	30.7	31.2	31.7	30.1	30.7	30.6	31.1	31.6
	12H	30.2	30.7	30.7	31.2	31.7	30.1	30.6	30.6	31.1	31.6
12H	4H	29.7	30.5	30.2	30.9	31.4	29.7	30.4	30.1	30.9	31.3
	6H	30.1	30.7	30.6	31.2	31.7	30.0	30.6	30.5	31.1	31.6
	8H	30.2	30.7	30.7	31.2	31.7	30.1	30.6	30.6	31.1	31.6
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 / - 0.4					
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.3					

CIE Pub.117, 19784 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.4$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.42V I:0.7015A P:148.27W PF:0.9677 Freq:49.99Hz Lamp Flux:19784.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

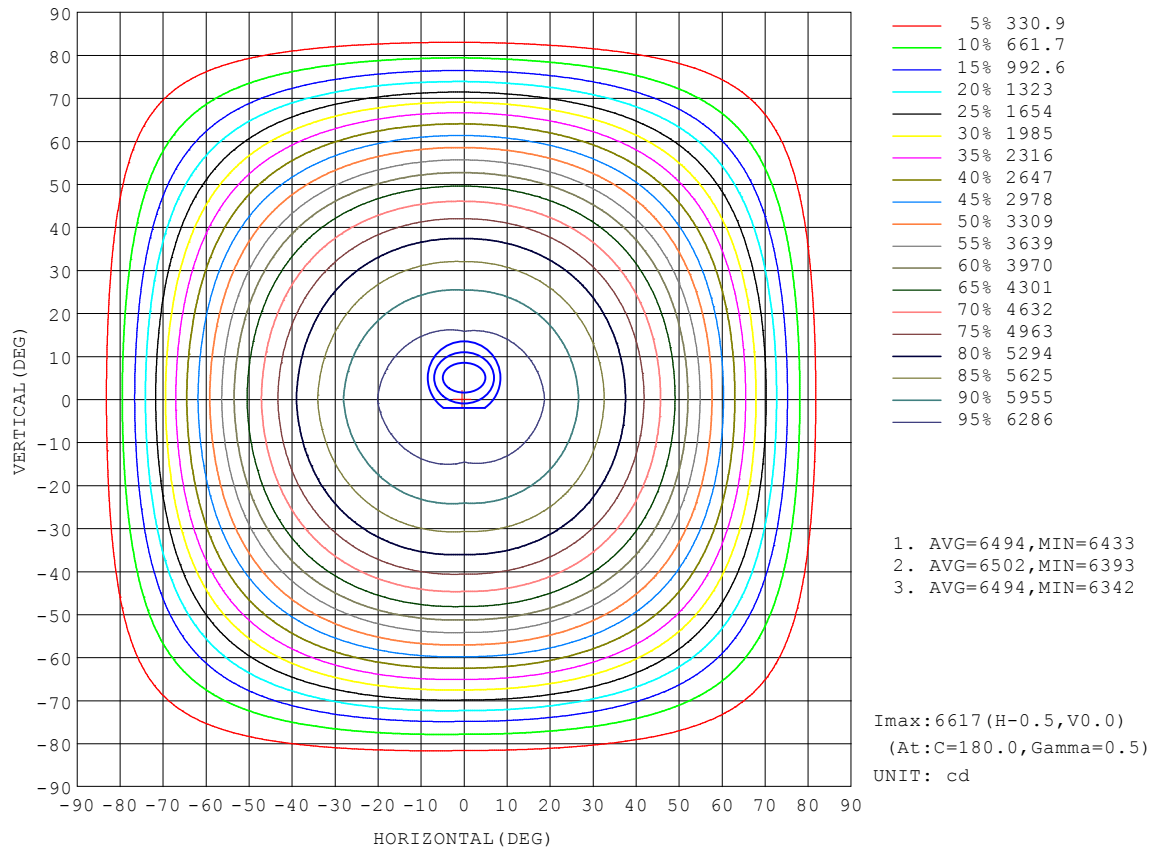
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	65	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	80	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	92	86	82	73
3.00	102	95	90	100	93	89	95	90	86	77
4.00	106	100	96	103	98	94	99	95	91	82
5.00	108	104	100	106	101	98	101	97	94	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: Jason
 Test Date: 2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.250m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:218.42V I:0.7015A P:148.27W PF:0.9677 Freq:49.99Hz Lamp Flux:19784.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

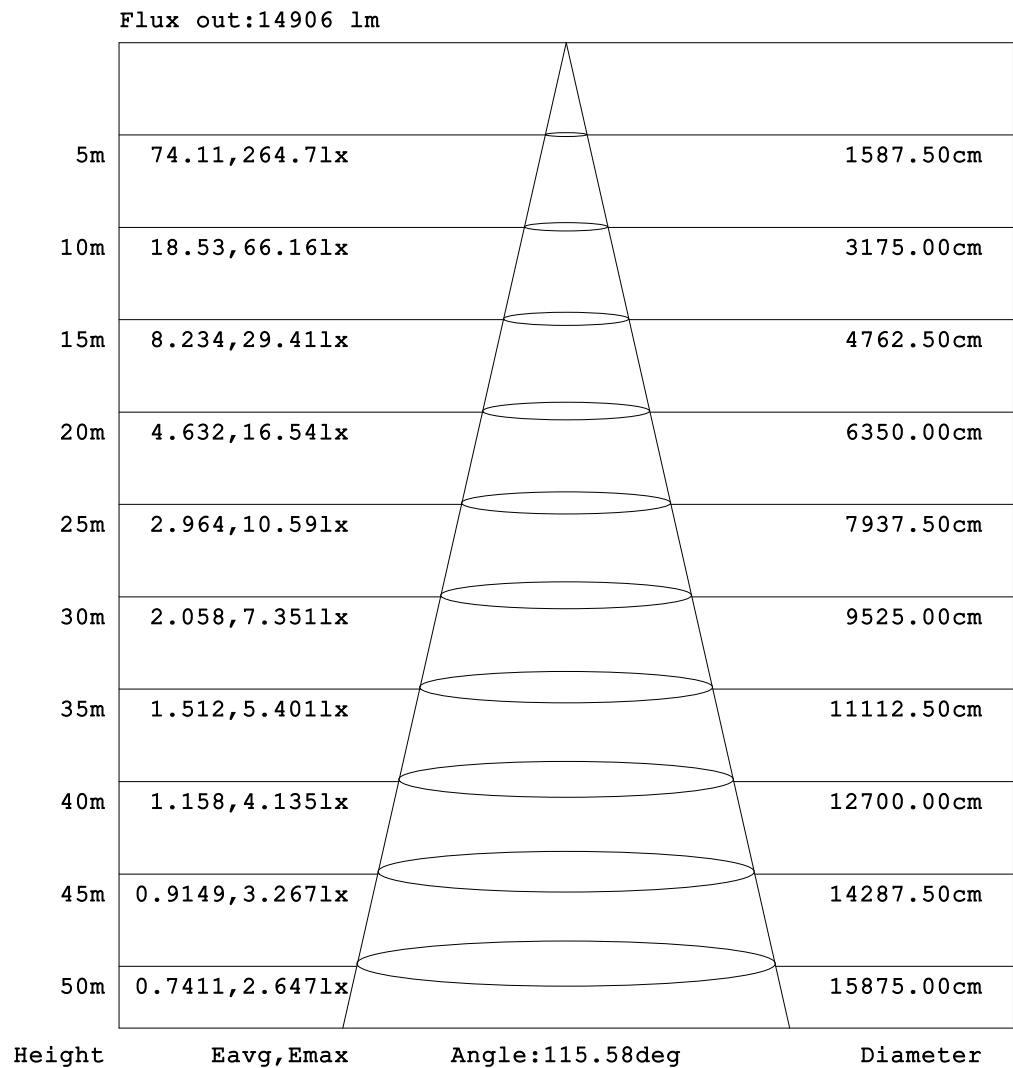


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:218.42V I:0.7015A P:148.27W PF:0.9677 Freq:49.99Hz Lamp Flux:19784.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



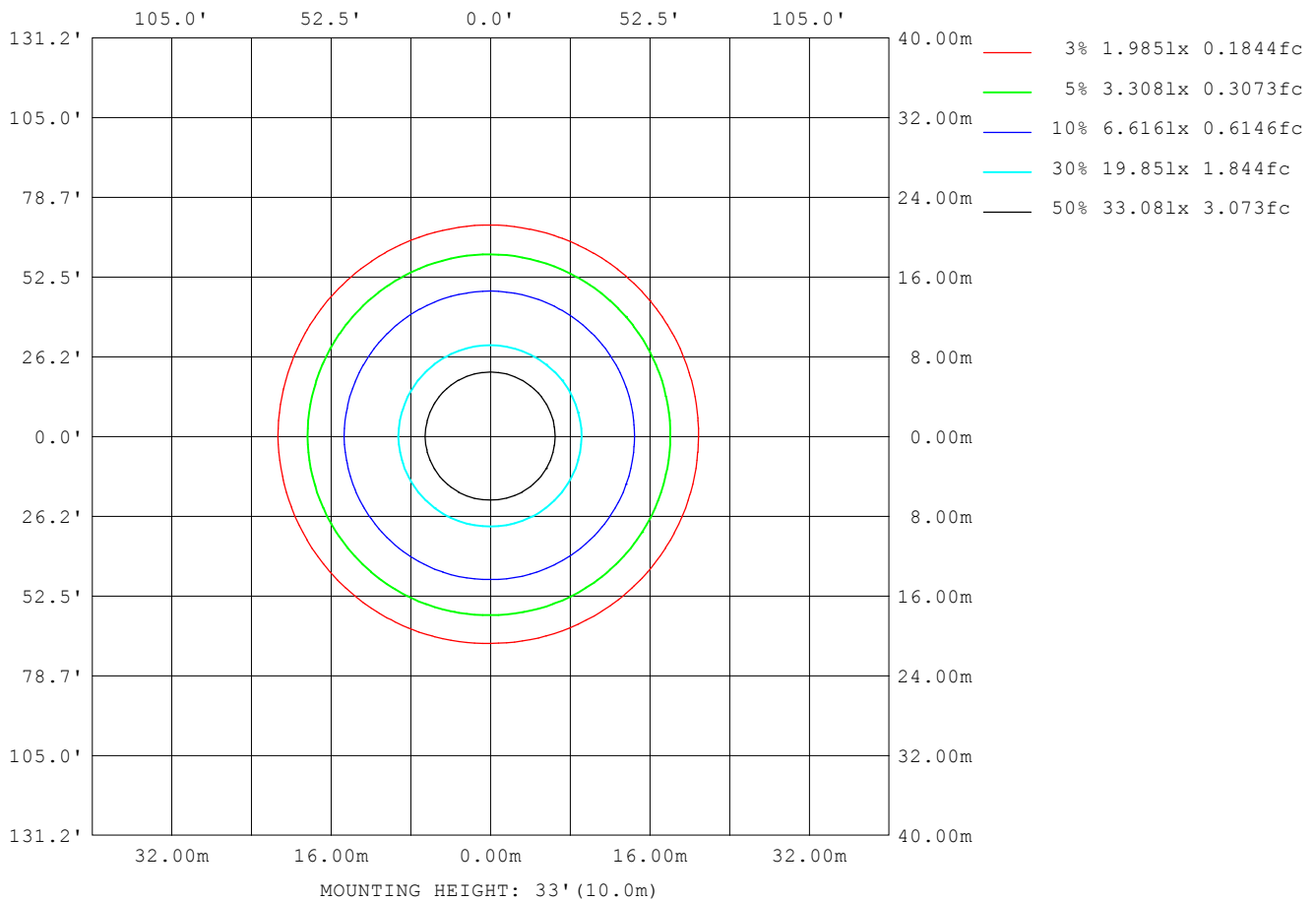
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:218.42V I:0.7015A P:148.27W PF:0.9677 Freq:49.99Hz Lamp Flux:19784.4x1 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:2024-03-01

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:218.42V I:0.7015A P:148.27W PF:0.9677 Freq:49.99Hz Lamp Flux:19784.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

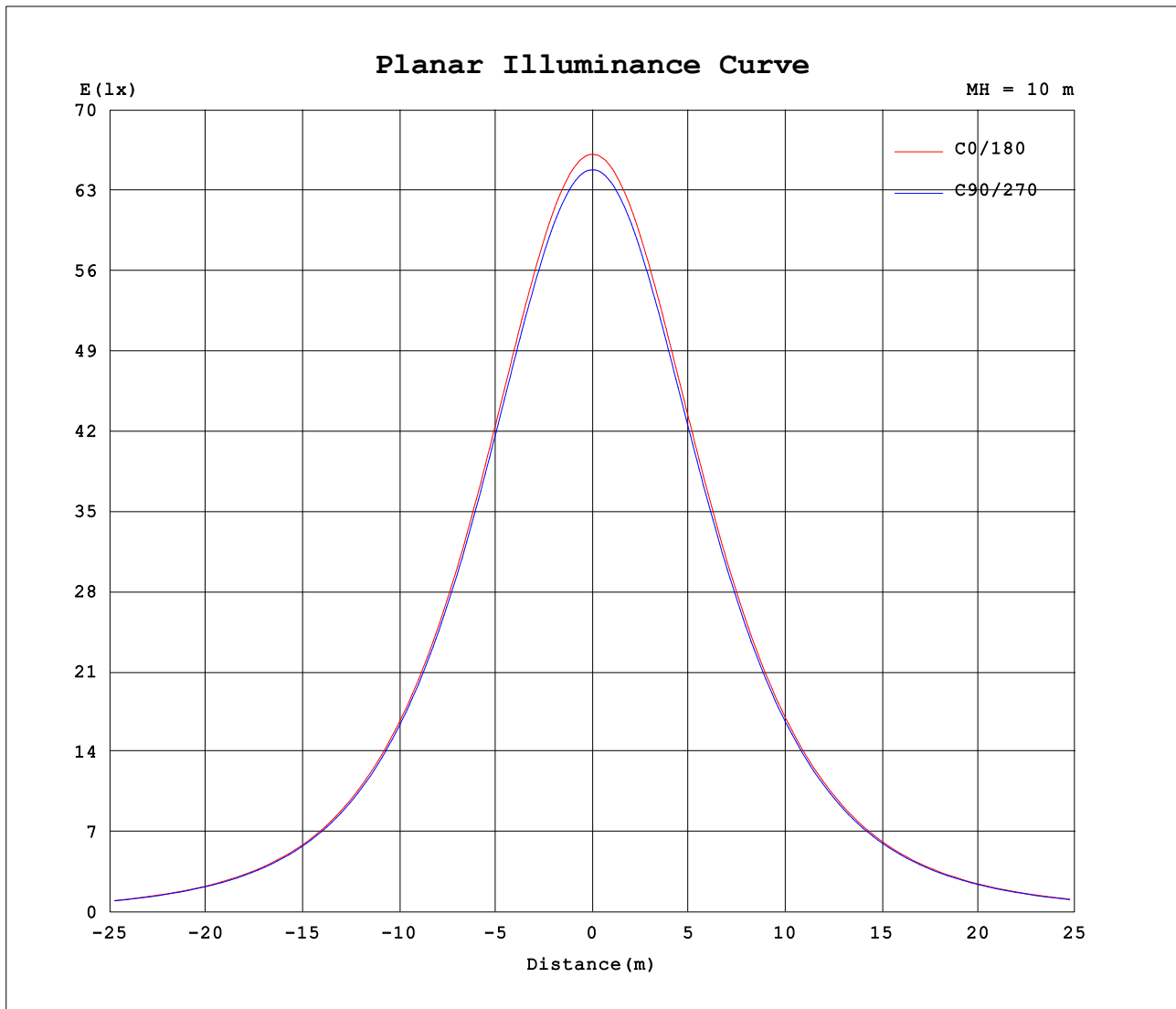
AvgL	cd/m2
L_0~180 (65) av	58698
L_0~180 (75) av	42935
L_0~180 (85) av	20232
L_90~270 (65) av	57421
L_90~270 (75) av	41517
L_90~270 (85) av	19540
L_45 (65) av	58051
L_45 (75) av	42273
L_45 (85) av	19983

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_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: 2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.250m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.42V I:0.7015A P:148.27W PF:0.9677 Freq:49.99Hz Lamp Flux:19784.4x1 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	6616	6482	6616	6482															
5	6591	6459	6603	6468															
10	6519	6389	6545	6409															
15	6402	6276	6441	6307															
20	6241	6118	6292	6161															
25	6032	5915	6097	5971															
30	5777	5665	5856	5732															
35	5470	5365	5564	5446															
40	5109	5011	5220	5110															
45	4694	4601	4821	4720															
50	4200	4110	4350	4255															
55	3625	3550	3797	3713															
60	3019	2955	3207	3136															
65	2379	2330	2583	2524															
70	1689	1639	1906	1850															
75	1018	975	1204	1174															
80	473	457	610	599															
85	151	149	202	192															
90	80.0	79.0	54.4	53.1															
95	70.1	69.0	42.9	41.6															
100	67.5	66.5	45.6	44.2															
105	66.7	65.8	49.5	48.0															
110	67.4	66.5	54.4	52.8															
115	69.1	68.3	59.8	57.9															
120	71.5	70.7	65.1	63.1															
125	73.9	73.2	70.6	68.4															
130	76.8	76.1	76.0	73.7															
135	80.2	79.4	81.2	78.6															
140	83.7	82.9	85.8	83.1															
145	87.1	86.3	89.9	87.0															
150	90.4	89.6	93.4	90.3															
155	93.5	92.6	96.3	93.0															
160	96.2	95.4	98.8	95.5															
165	98.7	97.9	101	97.4															
170	101	99.9	102	99.0															
175	102	101	104	100															
180	103	102	104	101															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.250m [K=1.0000]
Remarks: