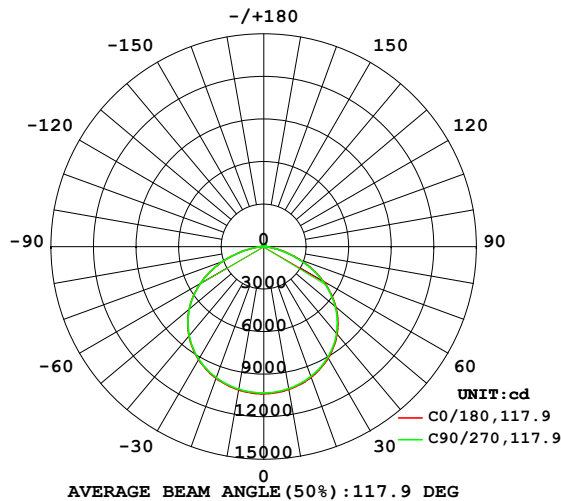


LUMINAIRE PHOTOMETRIC TEST REPORT

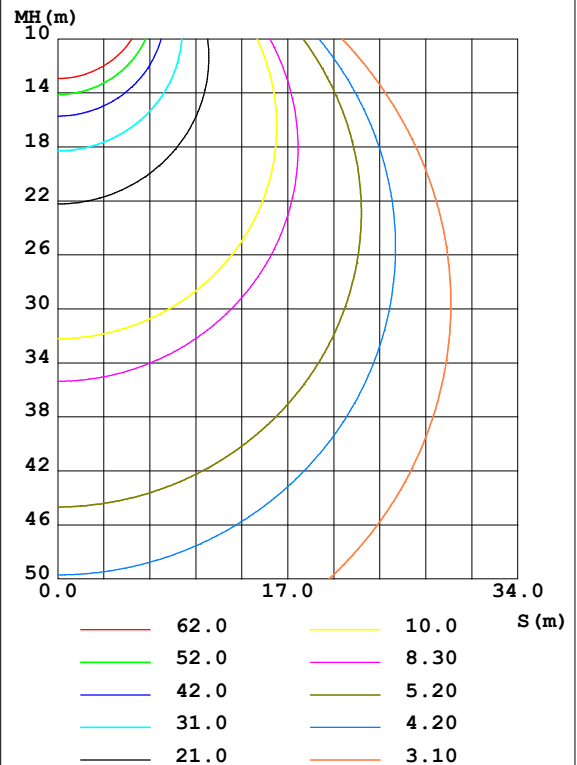
Test:U:218.15V I:1.1039A P:235.66W PF:0.9786 Freq:49.99Hz Lamp Flux:31640.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.26 lm/W			
MODEL		I _{max} (cd)	10378	S/MH (C0/180)	1.32
NOMINAL POWER(W)	240W	LOR(%)	100.0	S/MH (C90/270)	1.32
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	31640	η UP,DN(C0-180)	1.2,47.7
NOMINAL FLUX(lm)	31640.2	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.1,50.1
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: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.060m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1023	1017	1026	1021					0- 10	981.5	981.5	3.1,3.1
20	980.0	973.8	987.4	982.6					10- 20	2838	3820	12.1,12.1
30	908.6	902.4	920.3	916.3					20- 30	4383	8202	25.9,25.9
40	805.1	798.7	821.6	818.9					30- 40	5416	13619	43,43
50	664.8	658.8	687.8	686.4					40- 50	5761	19380	61.3,61.3
60	483.4	477.6	513.8	513.8					50- 60	5267	24647	77.9,77.9
70	269.7	264.5	308.9	309.9					60- 70	3909	28557	90.3,90.3
80	79.14	76.45	105.6	107.5					70- 80	1947	30504	96.4,96.4
90	12.46	12.28	9.732	10.01					80- 90	424.2	30928	97.7,97.7
100	10.79	10.74	7.215	7.151					90-100	100.9	31029	98.1,98.1
110	10.74	10.72	8.577	8.492					100-110	97.71	31127	98.4,98.4
120	11.24	11.24	10.23	10.13					110-120	100.8	31227	98.7,98.7
130	12.09	12.08	11.90	11.78					120-130	101.5	31329	99,99
140	13.14	13.14	13.37	13.25					130-140	97.46	31426	99.3,99.3
150	14.16	14.16	14.54	14.41					140-150	86.49	31513	99.6,99.6
160	15.07	15.05	15.40	15.27					150-160	68.27	31581	99.8,99.8
170	15.78	15.77	15.91	15.77					160-170	43.92	31625	100,100
180	16.02	15.99	16.09	15.94					170-180	15.19	31640	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 16505 lm

%lum = 52.2%

%lamp = 52.2%

Conical surface Flux(120deg): 24647 lm

%lum = 77.9%

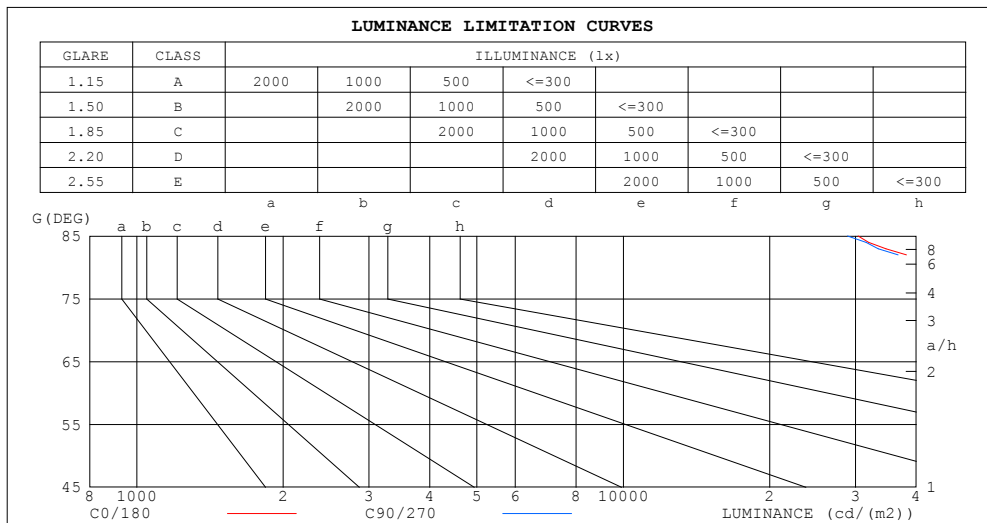
%lamp = 77.9%

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: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.060m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:218.15V I:1.1039A P:235.66W PF:0.9786 Freq:49.99Hz Lamp Flux:31640.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	30362	28886
80	45574	44027
75	63802	61896
70	78846	77336
65	90065	88730
60	96678	95517
55	100898	99920
50	103425	102492
45	104628	103717

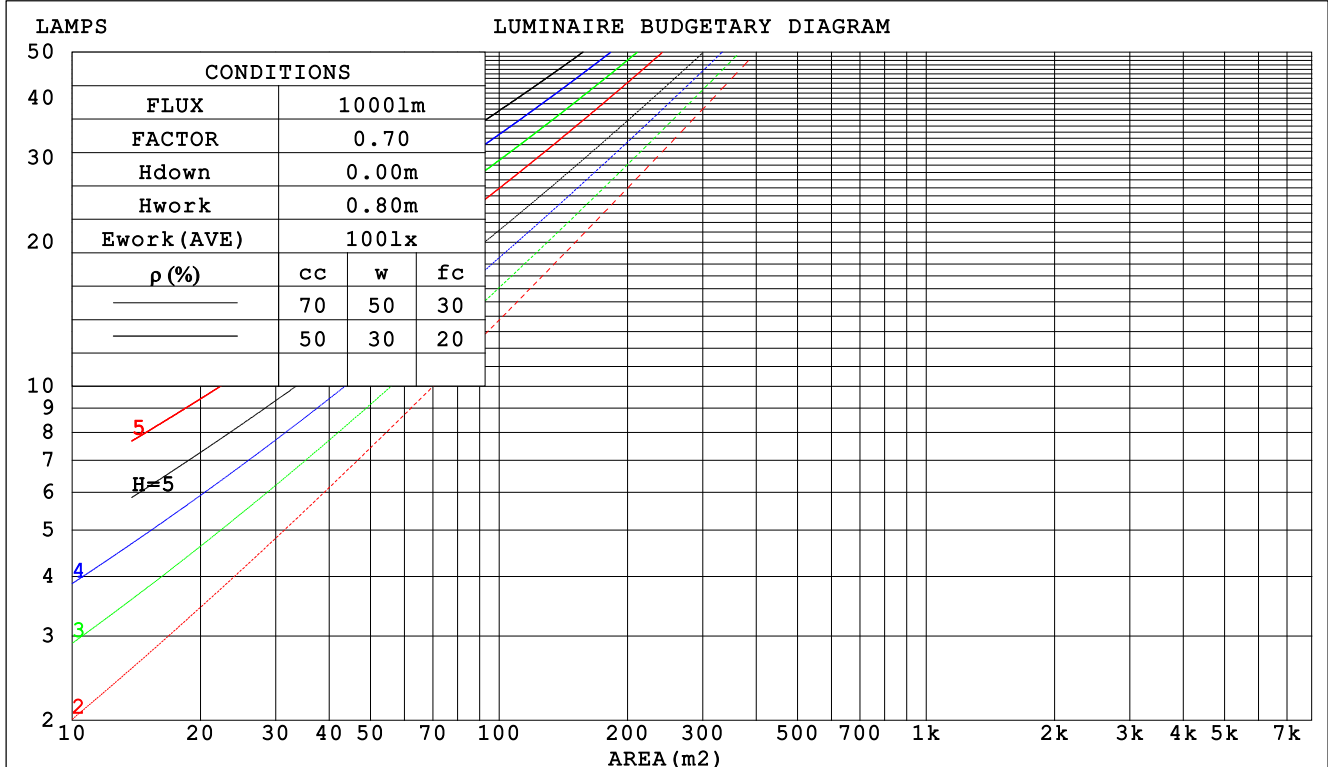
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.060m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:218.15V I:1.1039A P:235.66W PF:0.9786 Freq:49.99Hz Lamp Flux:31640.2x1 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	.00	.96	1.01	.97	.94	.97	.93	.91	.92	.90	.87	.88	.86	.84	.82
2.0	.90	.84	.78	.88	.82	.77	.84	.79	.75	.81	.76	.73	.77	.74	.71	.68
3.0	.79	.71	.65	.77	.70	.64	.74	.68	.62	.71	.66	.61	.68	.64	.60	.57
4.0	.70	.61	.55	.69	.60	.54	.66	.59	.53	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.54	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.36	.50	.41	.36	.48	.41	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.42	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.29	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.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: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.060m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:218.15V I:1.1039A P:235.66W PF:0.9786 Freq:49.99Hz Lamp Flux:31640.2x1 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	.302	.172	.054	.295	.168	.053	.280	.161	.051	.267	.154	.049	.254	.147	.048	
2.0	.287	.158	.048	.281	.155	.048	.268	.149	.046	.256	.144	.045	.245	.139	.044	
3.0	.268	.142	.043	.261	.140	.042	.250	.135	.041	.239	.131	.040	.230	.127	.039	
4.0	.248	.129	.038	.242	.127	.037	.232	.123	.037	.223	.120	.036	.214	.116	.035	
5.0	.229	.117	.034	.225	.115	.034	.216	.112	.033	.207	.109	.033	.199	.106	.032	
6.0	.213	.107	.031	.209	.105	.030	.201	.103	.030	.193	.100	.029	.186	.098	.029	
7.0	.199	.098	.028	.195	.097	.028	.187	.095	.027	.180	.093	.027	.174	.090	.027	
8.0	.186	.091	.025	.182	.090	.025	.175	.088	.025	.169	.086	.025	.163	.084	.024	
9.0	.174	.084	.023	.171	.083	.023	.165	.082	.023	.159	.080	.023	.154	.078	.023	
10.0	.164	.078	.022	.161	.078	.022	.155	.076	.021	.150	.075	.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	.177	.177	.177	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.197	.173	.152	.169	.149	.131	.115	.102	.091	.066	.059	.053	.021	.019	.017	
2.0	.189	.149	.116	.162	.129	.100	.111	.089	.070	.064	.052	.041	.021	.017	.013	
3.0	.182	.132	.092	.156	.114	.080	.107	.079	.056	.062	.046	.033	.020	.015	.011	
4.0	.174	.119	.076	.149	.102	.066	.103	.071	.047	.059	.042	.028	.019	.014	.009	
5.0	.167	.108	.065	.143	.094	.056	.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	.044	.091	.057	.031	.053	.033	.019	.017	.011	.006	
8.0	.147	.087	.046	.126	.076	.041	.087	.053	.029	.051	.031	.017	.016	.010	.006	
9.0	.141	.082	.043	.121	.071	.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: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 9.060m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:218.15V I:1.1039A P:235.66W PF:0.9786 Freq:49.99Hz Lamp Flux:31640.2x1 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	28.8	30.3	29.1	30.5	30.8	28.8	30.3	29.1	30.5	30.7
3H	30.1	31.5	30.4	31.8	32.0	30.0	31.4	30.4	31.7	32.0
4H	30.5	31.8	30.8	32.1	32.4	30.4	31.7	30.8	32.0	32.3
6H	30.7	31.9	31.0	32.2	32.5	30.6	31.8	31.0	32.1	32.5
8H	30.7	31.9	31.1	32.2	32.5	30.6	31.8	31.0	32.1	32.4
12H	30.7	31.8	31.1	32.1	32.5	30.6	31.7	31.0	32.1	32.4
4H 2H	29.4	30.7	29.7	31.0	31.3	29.3	30.6	29.7	30.9	31.2
3H	30.8	31.9	31.2	32.3	32.6	30.7	31.9	31.1	32.2	32.6
4H	31.3	32.3	31.7	32.7	33.1	31.2	32.2	31.6	32.6	33.0
6H	31.5	32.5	32.0	32.8	33.3	31.5	32.4	31.9	32.8	33.2
8H	31.6	32.4	32.0	32.8	33.3	31.5	32.4	31.9	32.8	33.2
12H	31.6	32.4	32.0	32.8	33.2	31.5	32.3	32.0	32.7	33.2
8H 4H	31.4	32.3	31.9	32.7	33.1	31.4	32.2	31.8	32.6	33.0
6H	31.8	32.5	32.2	32.9	33.4	31.7	32.4	32.2	32.8	33.3
8H	31.8	32.5	32.3	32.9	33.4	31.8	32.4	32.3	32.9	33.4
12H	31.9	32.4	32.4	32.9	33.4	31.8	32.3	32.3	32.8	33.4
12H 4H	31.4	32.2	31.9	32.6	33.1	31.3	32.1	31.8	32.5	33.0
6H	31.8	32.4	32.3	32.8	33.3	31.7	32.3	32.2	32.8	33.3
8H	31.9	32.4	32.4	32.9	33.4	31.8	32.3	32.3	32.8	33.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 31640 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 12.0$)
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: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.060m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:218.15V I:1.1039A P:235.66W PF:0.9786 Freq:49.99Hz Lamp Flux:31640.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

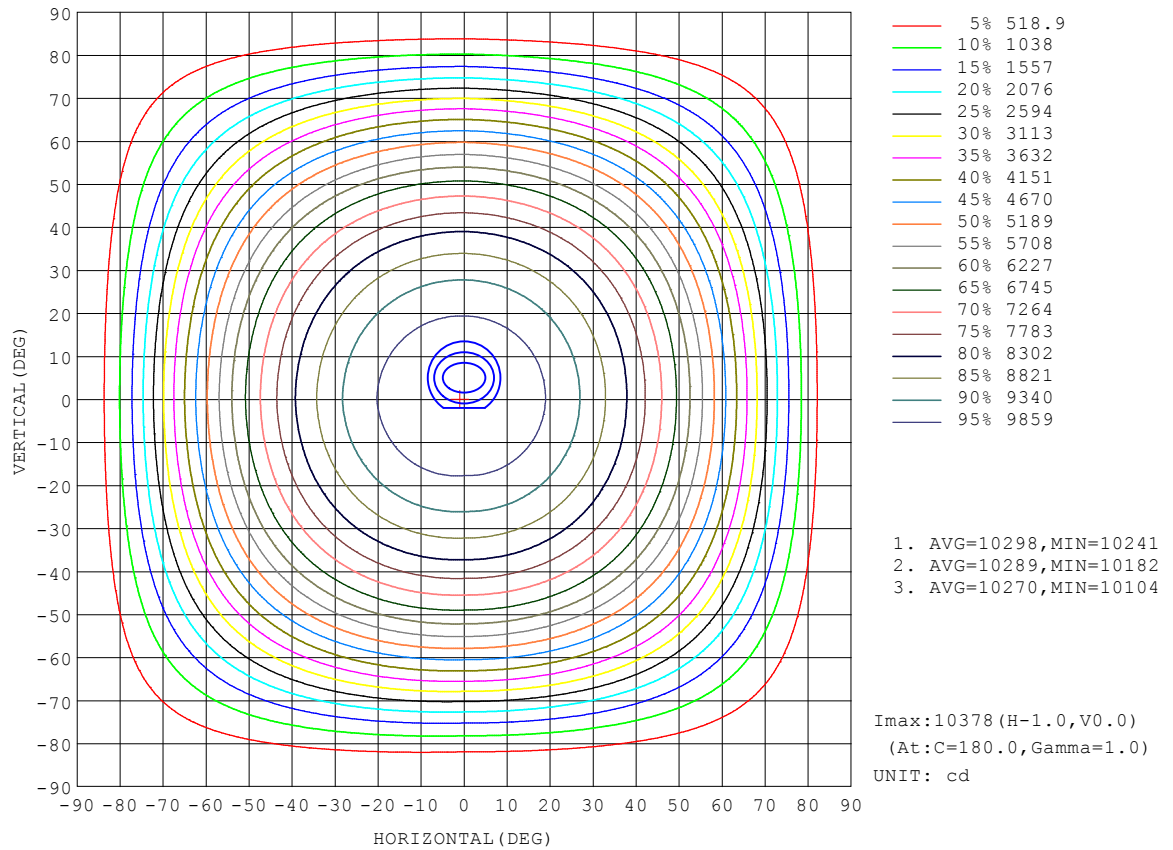
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	44	38	54	44	37	31
0.80	67	55	47	65	54	47	64	53	47	40
1.00	75	64	57	74	63	56	71	65	56	48
1.25	82	72	65	81	71	64	78	69	63	56
1.50	87	78	71	86	77	70	82	75	69	61
2.00	94	86	79	92	85	79	89	82	77	69
2.50	98	91	85	96	89	84	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	96	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	97	94	84
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: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.060m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:218.15V I:1.1039A P:235.66W PF:0.9786 Freq:49.99Hz Lamp Flux:31640.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

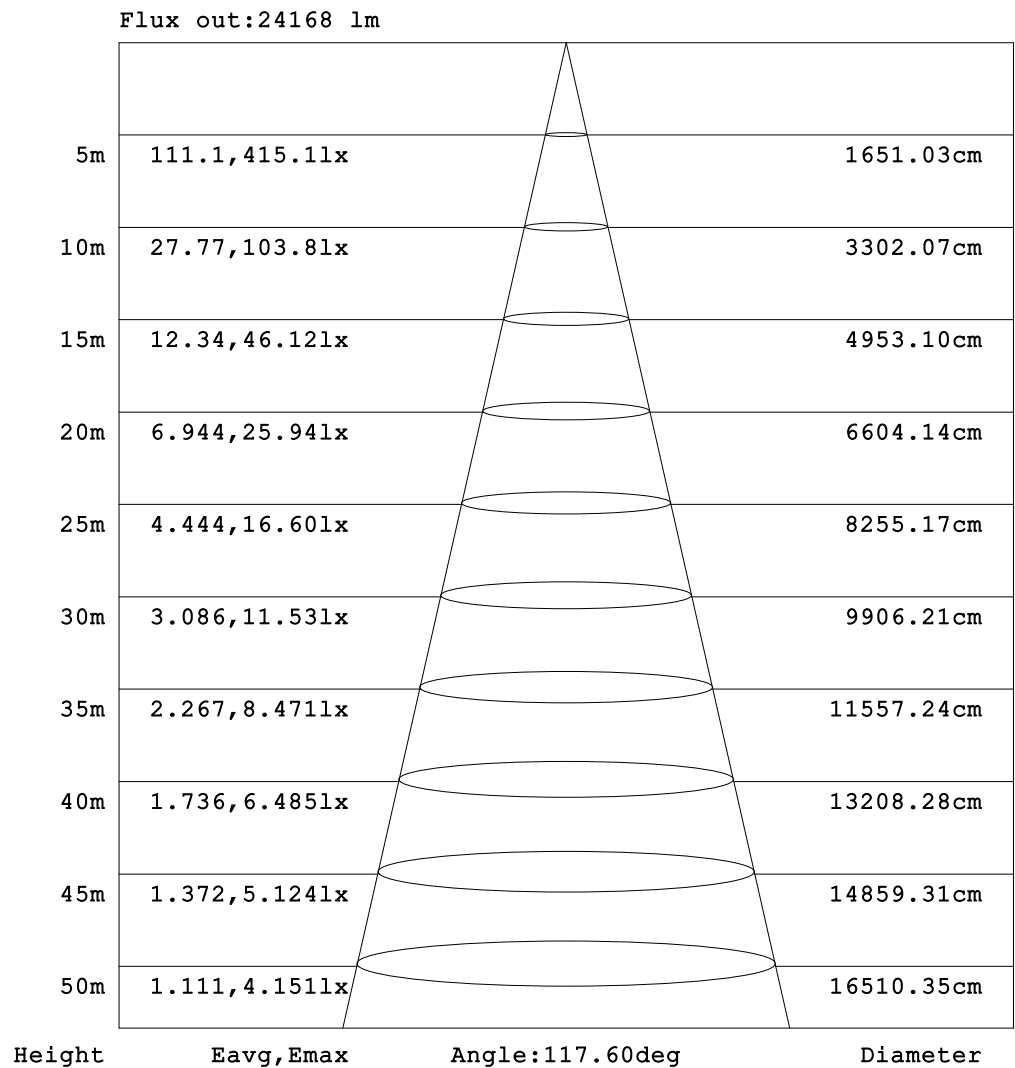


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-03-01

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.060m [K=1.0000]
Remarks:

AAI Figure

Test:U:218.15V I:1.1039A P:235.66W PF:0.9786 Freq:49.99Hz Lamp Flux:31640.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



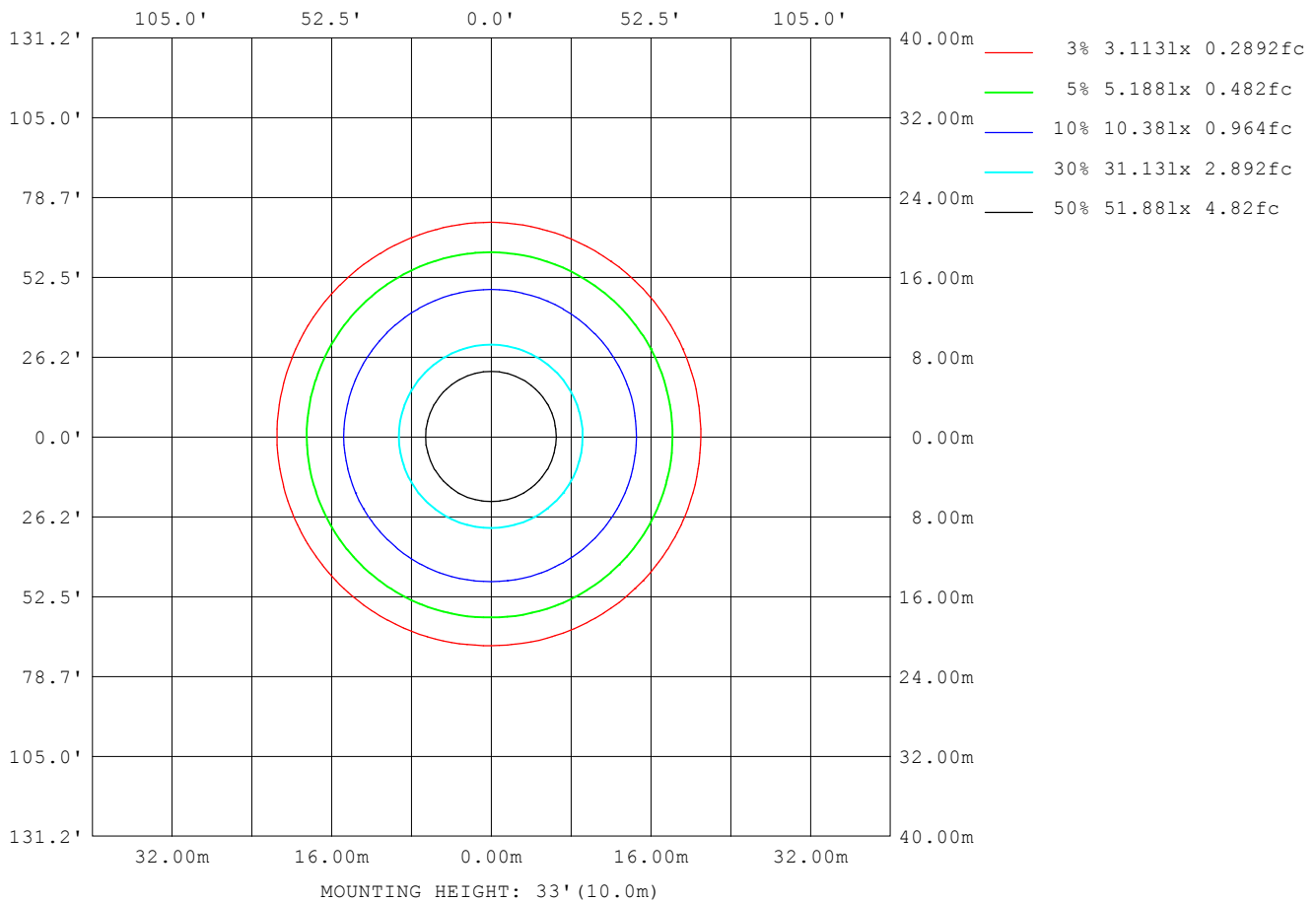
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.060m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:218.15V I:1.1039A P:235.66W PF:0.9786 Freq:49.99Hz Lamp Flux:31640.2x1 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: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.060m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:218.15V I:1.1039A P:235.66W PF:0.9786 Freq:49.99Hz Lamp Flux:31640.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

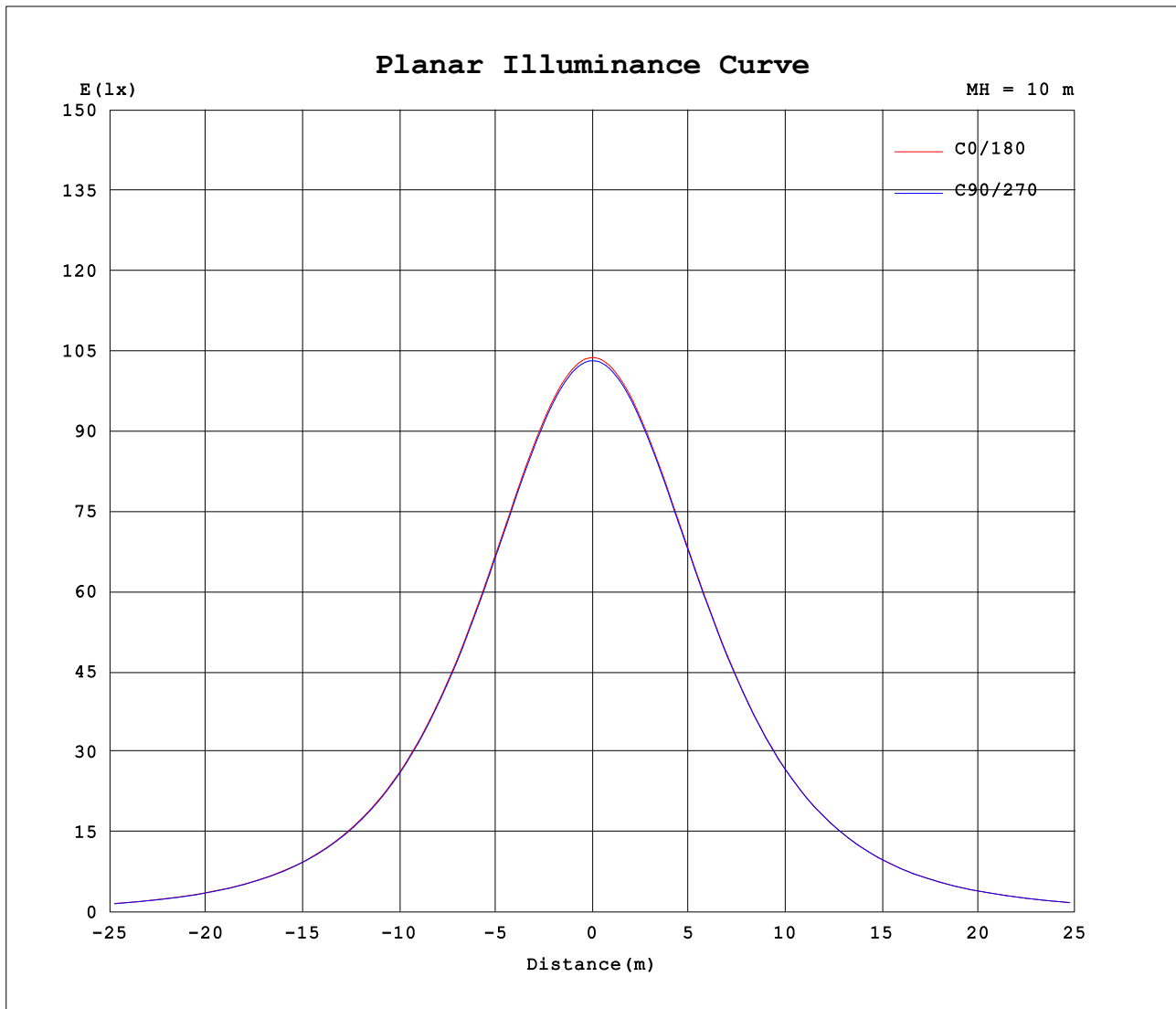
AvgL	cd/m2
L_0~180 (65) av	94169
L_0~180 (75) av	70525
L_0~180 (85) av	37102
L_90~270 (65) av	93612
L_90~270 (75) av	69937
L_90~270 (85) av	36460
L_45 (65) av	94077
L_45 (75) av	70577
L_45 (85) av	37122

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: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.060m [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: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 9.060m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:218.15V I:1.1039A P:235.66W PF:0.9786 Freq:49.99Hz Lamp Flux:31640.2x1 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	1038	1032	1038	1032															
5	1033	1028	1035	1030															
10	1023	1017	1026	1021															
15	1005	999	1010	1005															
20	980	974	987	983															
25	948	942	958	953															
30	909	902	920	916															
35	861	855	875	872															
40	805	799	822	819															
45	740	733	759	757															
50	665	659	688	686															
55	579	573	606	605															
60	483	478	514	514															
65	381	375	415	416															
70	270	265	309	310															
75	165	160	200	202															
80	79.1	76.5	106	108															
85	26.5	25.2	38.2	38.4															
90	12.5	12.3	9.73	10.0															
95	11.2	11.1	6.79	6.74															
100	10.8	10.7	7.21	7.15															
105	10.6	10.6	7.82	7.74															
110	10.7	10.7	8.58	8.49															
115	11.0	10.9	9.40	9.31															
120	11.2	11.2	10.2	10.1															
125	11.6	11.6	11.1	11.0															
130	12.1	12.1	11.9	11.8															
135	12.6	12.6	12.7	12.6															
140	13.1	13.1	13.4	13.2															
145	13.7	13.7	14.0	13.9															
150	14.2	14.2	14.5	14.4															
155	14.6	14.6	15.0	14.9															
160	15.1	15.1	15.4	15.3															
165	15.5	15.4	15.7	15.6															
170	15.8	15.8	15.9	15.8															
175	16.0	15.9	16.0	15.9															
180	16.0	16.0	16.1	15.9															

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: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:9.060m [K=1.0000]
Remarks: