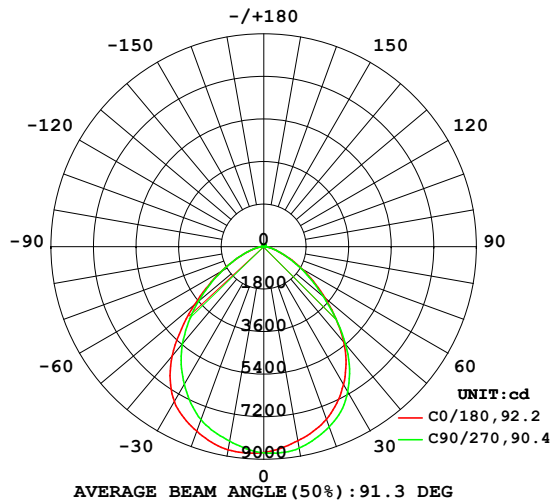


LUMINAIRE PHOTOMETRIC TEST REPORT

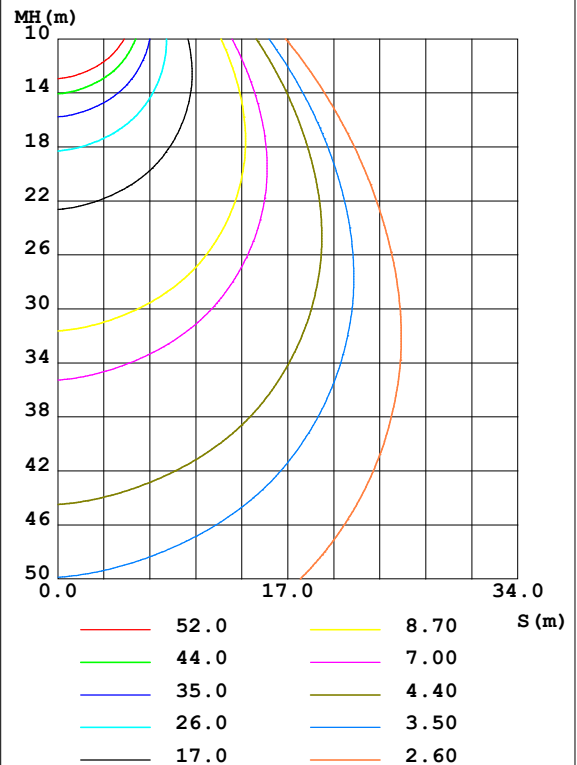
Test:U:218.39V I:0.6933A P:146.23W PF:0.9657 Freq:49.99Hz Lamp Flux:18900.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 129.26 lm/W			
MODEL		I _{max} (cd)	8760	S/MH (C0/180)	1.28
NOMINAL POWER(W)	150W	LOR(%)	100.0	S/MH (C90/270)	1.16
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	18901	η UP,DN(C0-180)	1.2,47.4
NOMINAL FLUX(lm)	18900.7	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	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:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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	8341	8655	8727	8353					0- 10	822.2	822.2	4.35,4.35
20	7769	8112	8306	7787					10- 20	2340	3162	16.7,16.7
30	6746	7100	7578	6734					20- 30	3486	6648	35.2,35.2
40	5265	5376	6025	5349					30- 40	3952	10600	56.1,56.1
50	3401	3312	3822	3618					40- 50	3479	14080	74.5,74.5
60	1843	1779	2040	2017					50- 60	2396	16476	87.2,87.2
70	758.2	743.0	851.0	889.3					60- 70	1295	17771	94,94
80	245.1	249.9	274.3	294.0					70- 80	523.3	18295	96.8,96.8
90	70.07	69.23	64.63	75.89					80- 90	171.6	18466	97.7,97.7
100	53.74	53.13	40.40	39.47					90-100	54.75	18521	98,98
110	55.96	54.65	49.87	48.62					100-110	51.89	18573	98.3,98.3
120	63.93	61.58	62.06	60.53					110-120	56.39	18629	98.6,98.6
130	74.71	71.52	75.18	73.70					120-130	60.71	18690	98.9,98.9
140	86.80	82.94	88.31	87.17					130-140	61.85	18752	99.2,99.2
150	98.43	94.66	100.6	99.28					140-150	57.86	18810	99.5,99.5
160	108.9	105.9	111.2	109.1					150-160	47.82	18857	99.8,99.8
170	117.0	115.1	119.0	116.2					160-170	31.94	18889	99.9,99.9
180	120.6	120.2	122.6	118.6					170-180	11.31	18901	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 12456 lm

%lum = 65.9%

%lamp = 65.9%

Conical surface Flux(120deg): 16476 lm

%lum = 87.2%

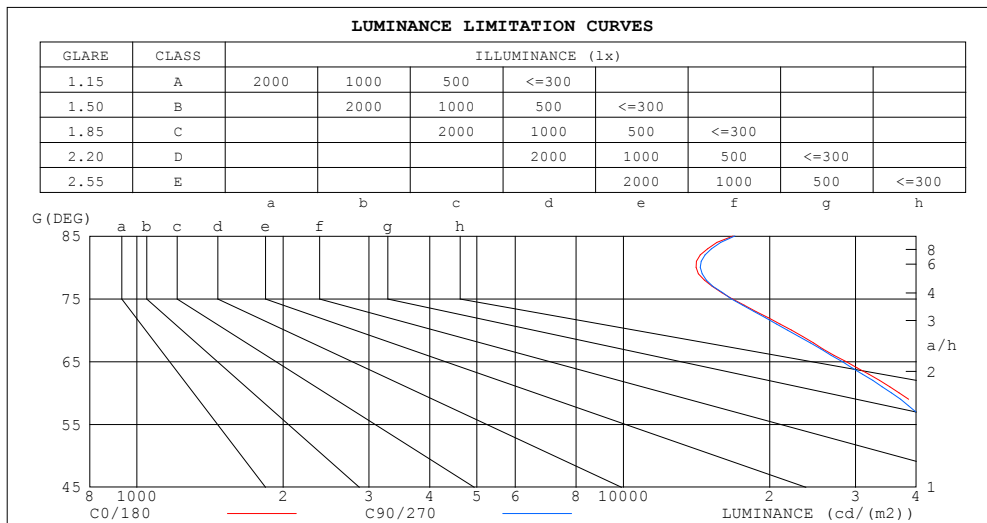
%lamp = 87.2%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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:218.39V I:0.6933A P:146.23W PF:0.9657 Freq:49.99Hz Lamp Flux:18900.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	16835	16960
80	14115	14391
75	16729	16662
70	22168	21724
65	28673	28153
60	36867	35581
55	44742	42976
50	52914	51523
45	61199	61049

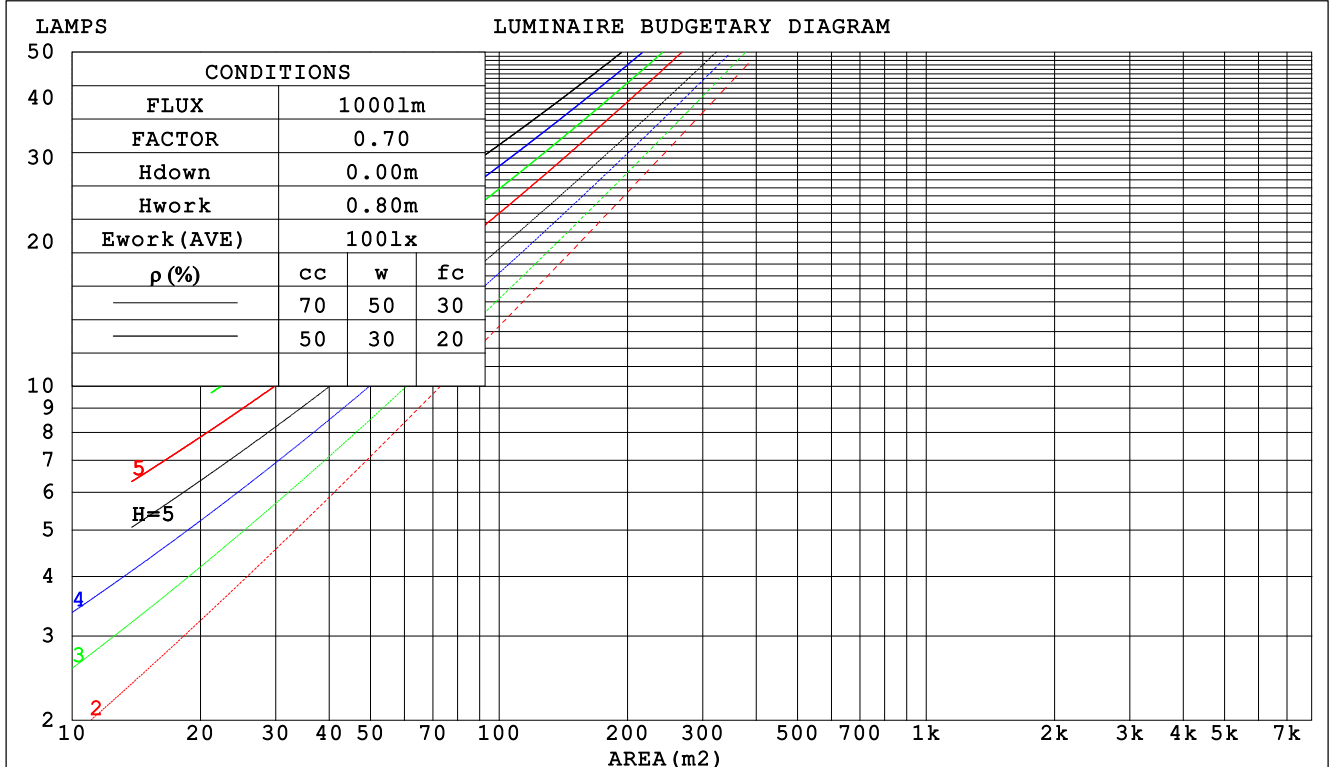
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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:218.39V I:0.6933A P:146.23W PF:0.9657 Freq:49.99Hz Lamp Flux:18900.7x1 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	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	1.06	1.02	.99	1.04	1.00	.97	.99	.96	.94	.95	.93	.91	.91	.89	.88	.85
2.0	.94	.89	.84	.92	.87	.83	.89	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.84	.77	.72	.83	.76	.71	.80	.74	.69	.77	.72	.68	.74	.70	.67	.64
4.0	.76	.68	.62	.74	.67	.62	.72	.66	.61	.69	.64	.60	.67	.62	.59	.56
5.0	.69	.60	.55	.67	.60	.54	.65	.58	.53	.63	.57	.53	.61	.56	.52	.50
6.0	.62	.54	.48	.61	.54	.48	.59	.53	.47	.57	.51	.47	.56	.50	.46	.44
7.0	.57	.49	.43	.56	.48	.43	.54	.47	.43	.53	.47	.42	.51	.46	.42	.40
8.0	.52	.44	.39	.51	.44	.39	.50	.43	.38	.49	.43	.38	.47	.42	.38	.36
9.0	.48	.40	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.38	.34	.33
10.0	.45	.37	.32	.44	.37	.32	.43	.36	.32	.42	.36	.32	.41	.35	.31	.30



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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:218.39V I:0.6933A P:146.23W PF:0.9657 Freq:49.99Hz Lamp Flux:18900.7x1 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	.258	.147	.047	.251	.143	.045	.236	.136	.043	.223	.129	.041	.211	.122	.039		
2.0	.248	.136	.042	.241	.133	.041	.229	.127	.039	.217	.122	.038	.206	.117	.037		
3.0	.234	.124	.037	.228	.122	.037	.217	.118	.036	.207	.113	.035	.197	.109	.034		
4.0	.219	.114	.034	.214	.112	.033	.204	.108	.032	.195	.105	.032	.187	.102	.031		
5.0	.206	.105	.030	.201	.103	.030	.192	.100	.029	.184	.097	.029	.177	.094	.028		
6.0	.193	.097	.028	.189	.095	.027	.181	.093	.027	.174	.090	.027	.167	.088	.026		
7.0	.181	.090	.025	.178	.089	.025	.171	.086	.025	.164	.084	.024	.158	.082	.024		
8.0	.171	.084	.023	.168	.083	.023	.161	.081	.023	.155	.079	.023	.150	.077	.022		
9.0	.161	.078	.022	.158	.077	.022	.153	.075	.021	.147	.074	.021	.142	.072	.021		
10.0	.153	.073	.020	.150	.072	.020	.145	.071	.020	.140	.069	.020	.135	.068	.020		

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	.156	.166	.150	.134	.114	.103	.093	.065	.060	.054	.021	.019	.017		
2.0	.184	.150	.121	.158	.129	.105	.108	.089	.073	.062	.052	.043	.020	.017	.014		
3.0	.175	.132	.097	.150	.114	.084	.103	.079	.059	.060	.046	.035	.019	.015	.011		
4.0	.167	.118	.081	.144	.102	.070	.099	.071	.049	.057	.042	.029	.018	.014	.010		
5.0	.160	.108	.069	.138	.093	.060	.095	.065	.042	.055	.038	.025	.018	.012	.008		
6.0	.153	.099	.060	.132	.086	.052	.091	.060	.037	.053	.035	.022	.017	.012	.007		
7.0	.147	.092	.054	.126	.080	.047	.087	.056	.033	.051	.033	.020	.016	.011	.007		
8.0	.141	.086	.049	.121	.075	.042	.084	.053	.030	.049	.031	.018	.016	.010	.006		
9.0	.135	.081	.045	.117	.071	.039	.081	.050	.028	.047	.029	.017	.015	.010	.005		
10.0	.130	.077	.042	.112	.067	.036	.078	.047	.026	.045	.028	.015	.015	.009	.005		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Jason
 Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 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:218.39V I:0.6933A P:146.23W PF:0.9657 Freq:49.99Hz Lamp Flux:18900.7x1 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	2H	25.2	26.6	25.5	26.8	27.0	25.1	26.5	25.4	26.7	26.9
	3H	25.7	26.9	26.0	27.2	27.5	25.6	26.9	26.0	27.1	27.4
	4H	25.8	27.0	26.2	27.3	27.6	25.8	26.9	26.1	27.2	27.5
	6H	25.9	27.0	26.2	27.3	27.6	25.8	26.9	26.2	27.2	27.5
	8H	25.9	26.9	26.3	27.2	27.6	25.8	26.9	26.2	27.2	27.5
	12H	25.9	26.9	26.3	27.2	27.6	25.8	26.8	26.2	27.2	27.5
4H	2H	25.4	26.6	25.8	26.9	27.2	25.4	26.5	25.7	26.8	27.1
	3H	26.1	27.1	26.4	27.4	27.7	26.0	27.0	26.4	27.3	27.7
	4H	26.2	27.1	26.6	27.5	27.9	26.2	27.1	26.6	27.4	27.8
	6H	26.4	27.2	26.8	27.5	27.9	26.3	27.1	26.7	27.5	27.9
	8H	26.4	27.1	26.8	27.5	28.0	26.4	27.1	26.8	27.5	27.9
	12H	26.5	27.1	26.9	27.6	28.0	26.4	27.1	26.9	27.5	28.0
8H	4H	26.2	27.0	26.7	27.4	27.8	26.2	26.9	26.6	27.3	27.8
	6H	26.4	27.0	26.9	27.5	28.0	26.4	27.0	26.9	27.4	27.9
	8H	26.5	27.1	27.0	27.5	28.0	26.5	27.0	27.0	27.5	28.0
	12H	26.7	27.1	27.2	27.6	28.1	26.6	27.1	27.1	27.6	28.1
12H	4H	26.2	26.9	26.7	27.3	27.8	26.2	26.8	26.6	27.3	27.7
	6H	26.4	27.0	26.9	27.4	27.9	26.4	26.9	26.9	27.4	27.9
	8H	26.6	27.0	27.1	27.5	28.0	26.5	27.0	27.0	27.5	28.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.7					+ 0.6 / - 0.7					
1.5H	+ 0.3 / - 0.3					+ 0.3 / - 0.3					
2.0H	+ 1.1 / - 1.1					+ 1.1 / - 1.1					

CIE Pub.117, 18901 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.2$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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:218.39V I:0.6933A P:146.23W PF:0.9657 Freq:49.99Hz Lamp Flux:18900.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

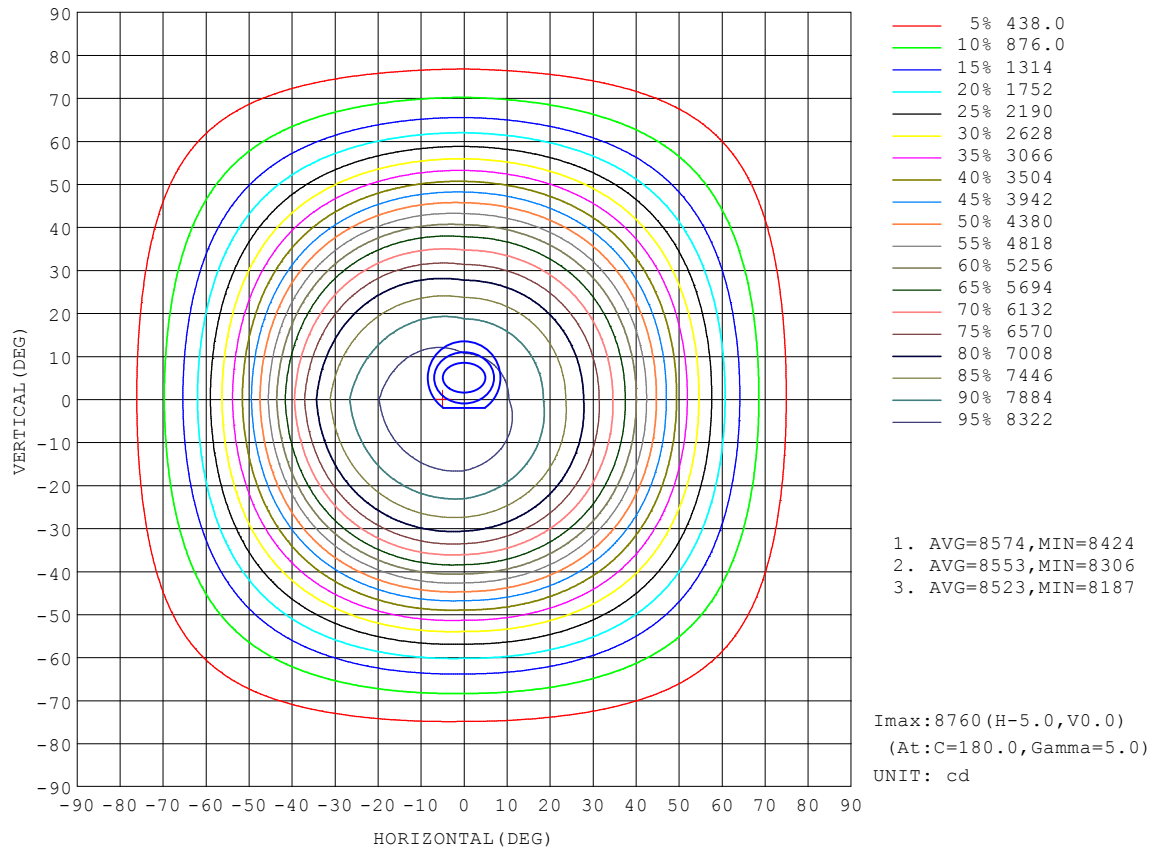
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	47	63	53	47	62	53	47	41
0.80	74	64	57	73	63	57	71	62	57	51
1.00	82	73	66	81	72	66	79	73	65	59
1.25	89	80	74	87	79	73	84	77	72	66
1.50	93	85	79	91	84	78	88	82	77	70
2.00	99	92	87	97	91	86	94	88	84	77
2.50	102	96	91	100	94	90	96	91	87	79
3.00	105	99	95	103	98	93	99	94	91	83
4.00	108	103	100	106	101	98	101	98	95	86
5.00	110	106	103	108	104	101	103	100	97	88
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: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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:218.39V I:0.6933A P:146.23W PF:0.9657 Freq:49.99Hz Lamp Flux:18900.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

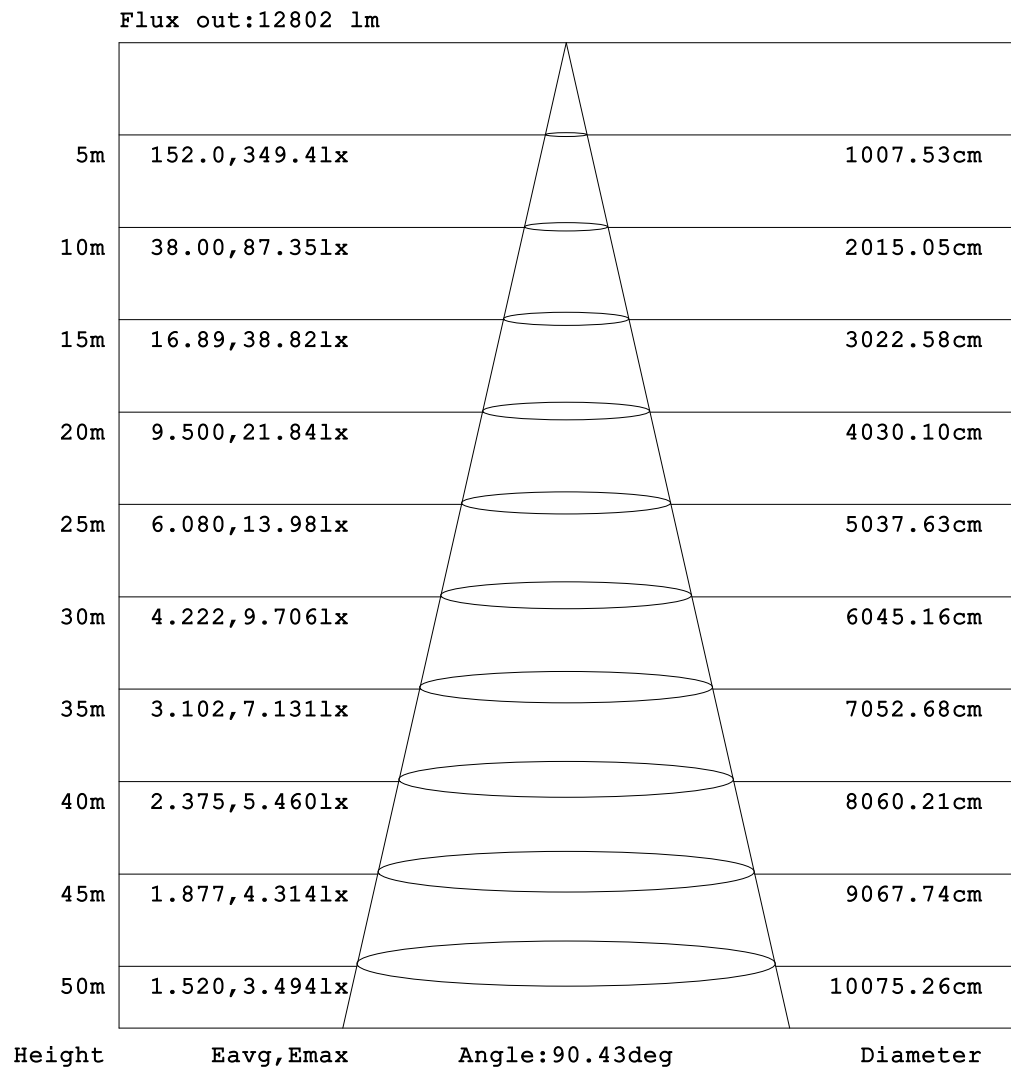


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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:218.39V I:0.6933A P:146.23W PF:0.9657 Freq:49.99Hz Lamp Flux:18900.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



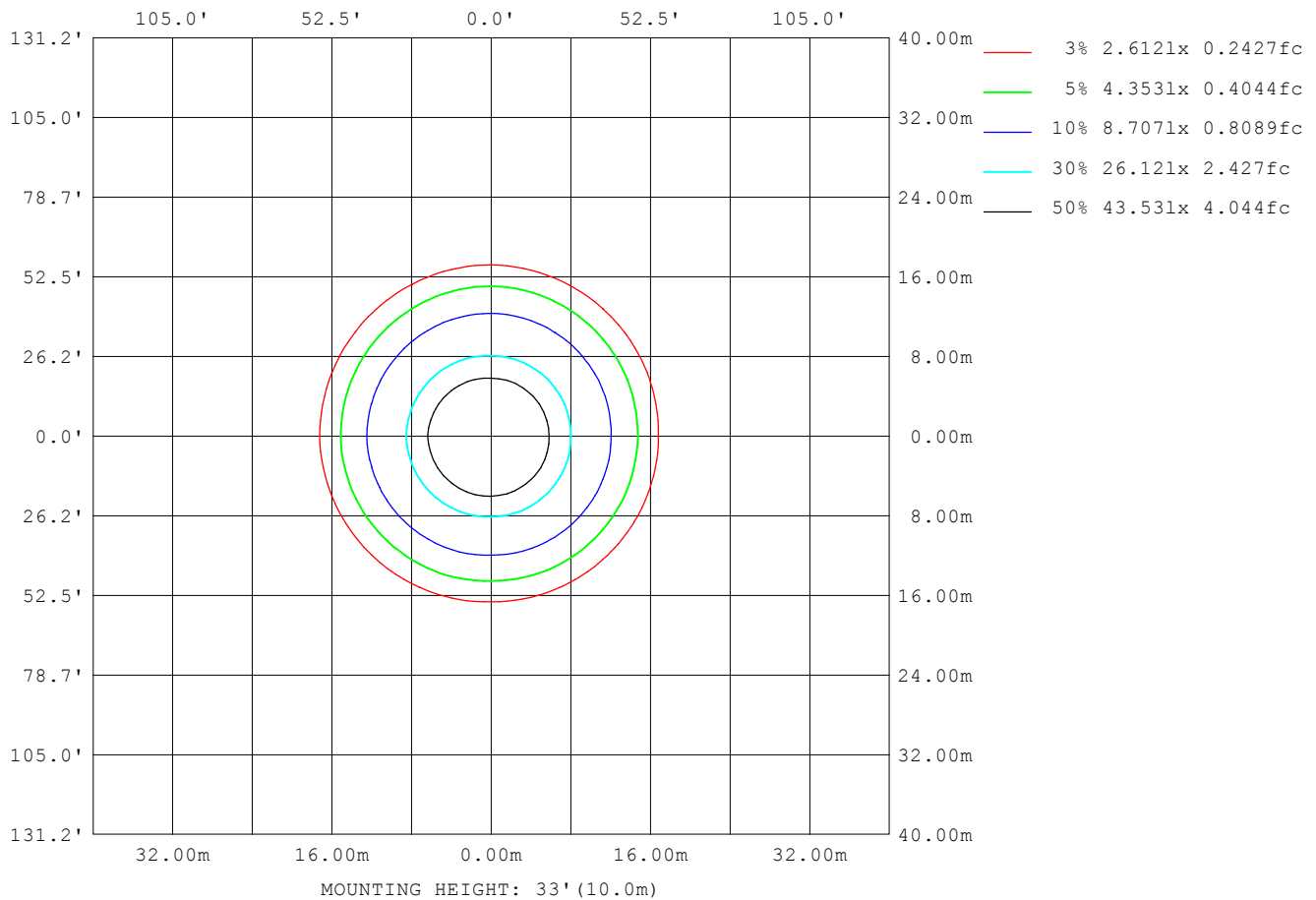
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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:218.39V I:0.6933A P:146.23W PF:0.9657 Freq:49.99Hz Lamp Flux:18900.7x1 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:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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:218.39V I:0.6933A P:146.23W PF:0.9657 Freq:49.99Hz Lamp Flux:18900.7x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

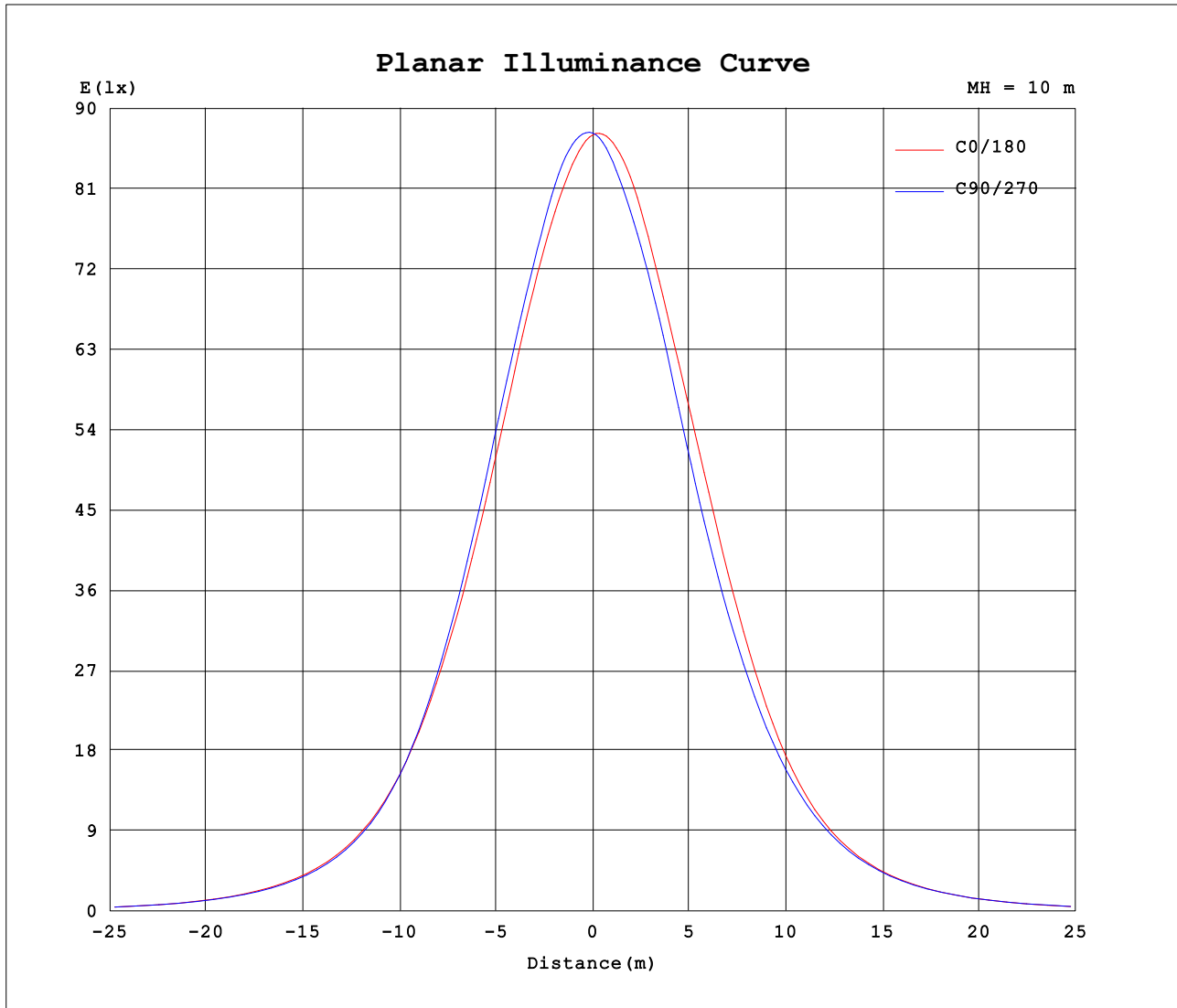
AvgL	cd/m2
L_0~180 (65) av	30423
L_0~180 (75) av	18013
L_0~180 (85) av	17240
L_90~270 (65) av	30282
L_90~270 (75) av	18630
L_90~270 (85) av	18029
L_45 (65) av	30444
L_45 (75) av	18479
L_45 (85) av	17758

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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: 2024-08-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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:218.39V I:0.6933A P:146.23W PF:0.9657 Freq:49.99Hz Lamp Flux:18900.7x1 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	8707	8726	8707	8726														
5	8551	8749	8760	8581														
10	8341	8655	8727	8353														
15	8096	8412	8568	8111														
20	7769	8112	8306	7787														
25	7309	7711	8002	7303														
30	6746	7100	7578	6734														
35	6074	6327	6906	6090														
40	5265	5376	6025	5349														
45	4327	4317	4938	4503														
50	3401	3312	3822	3618														
55	2566	2465	2855	2772														
60	1843	1779	2040	2017														
65	1212	1190	1360	1370														
70	758	743	851	889														
75	433	431	499	533														
80	245	250	274	294														
85	147	148	154	166														
90	70.1	69.2	64.6	75.9														
95	55.6	55.2	37.6	38.3														
100	53.7	53.1	40.4	39.5														
105	54.0	53.1	44.8	43.7														
110	56.0	54.7	49.9	48.6														
115	59.4	57.5	55.7	54.3														
120	63.9	61.6	62.1	60.5														
125	69.1	66.3	68.6	67.0														
130	74.7	71.5	75.2	73.7														
135	80.7	77.1	81.8	80.5														
140	86.8	82.9	88.3	87.2														
145	92.7	88.8	94.6	93.4														
150	98.4	94.7	101	99.3														
155	104	100	106	104														
160	109	106	111	109														
165	113	111	115	113														
170	117	115	119	116														
175	119	118	121	118														
180	121	120	123	119														

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-08-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.411
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Remarks: