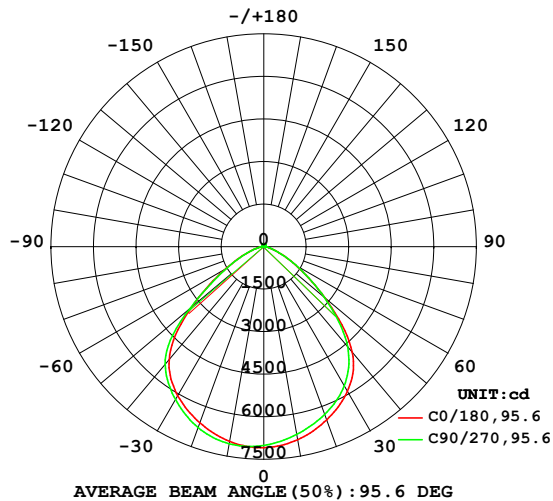


LUMINAIRE PHOTOMETRIC TEST REPORT

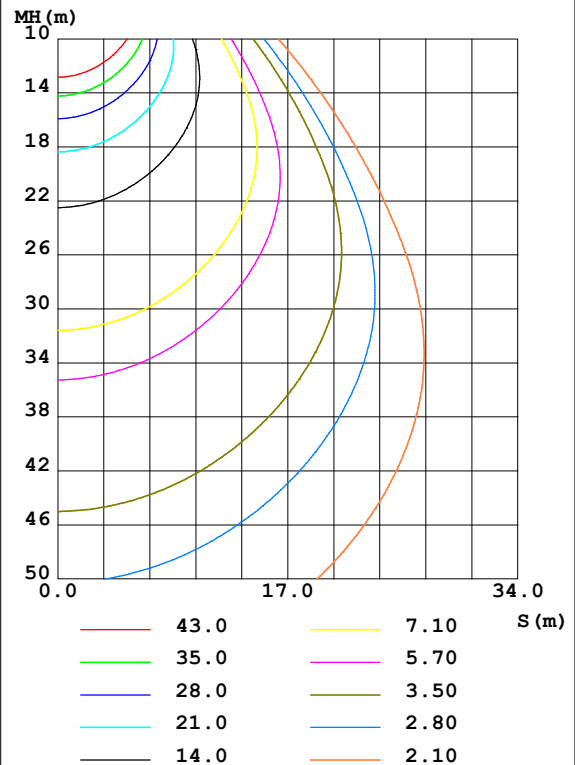
Test:U:218.81V I:0.4852A P:101.09W PF:0.9521 Freq:58.98Hz Lamp Flux:15699.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 155.31 lm/W			
MODEL		I _{max} (cd)	7089	S/MH (C0/180)	1.27
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.31
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	15699	η UP, DN (C0-180)	1.2, 46.3
NOMINAL FLUX (lm)	15699.4	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 51.3
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	97.7	CIBSE SHR MAX	1.35

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	6912	6718	6972	7055					0- 10	666.3	666.3	4.24, 4.24
20	6498	6293	6608	6784					10- 20	1907	2573	16.4, 16.4
30	5898	5673	6069	6225					20- 30	2896	5470	34.8, 34.8
40	4852	4606	5191	5411					30- 40	3469	8939	56.9, 56.9
50	2823	2789	3325	3414					40- 50	3178	12116	77.2, 77.2
60	1285	1306	1530	1491					50- 60	1932	14048	89.5, 89.5
70	472.4	465.5	562.9	555.1					60- 70	890.7	14939	95.2, 95.2
80	129.2	126.4	169.5	168.7					70- 80	319.7	15259	97.2, 97.2
90	48.63	48.04	28.69	28.09					80- 90	73.19	15332	97.7, 97.7
100	43.82	43.54	33.89	33.12					90-100	41.43	15373	97.9, 97.9
110	46.62	47.05	41.98	41.07					100-110	43.39	15417	98.2, 98.2
120	53.85	54.62	52.15	51.08					110-120	47.93	15465	98.5, 98.5
130	63.59	64.76	63.76	62.24					120-130	52.07	15517	98.8, 98.8
140	73.94	75.84	75.09	73.47					130-140	53.39	15570	99.2, 99.2
150	84.15	86.13	85.70	84.39					140-150	50.05	15620	99.5, 99.5
160	93.44	95.36	95.71	94.55					150-160	41.53	15662	99.8, 99.8
170	100.7	102.3	102.9	101.9					160-170	27.86	15690	99.9, 99.9
180	104.6	105.7	105.4	105.1					170-180	9.876	15699	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 10649 lm

%lum = 67.8%

%lamp = 67.8%

Conical surface Flux(120deg): 14048 lm

%lum = 89.5%

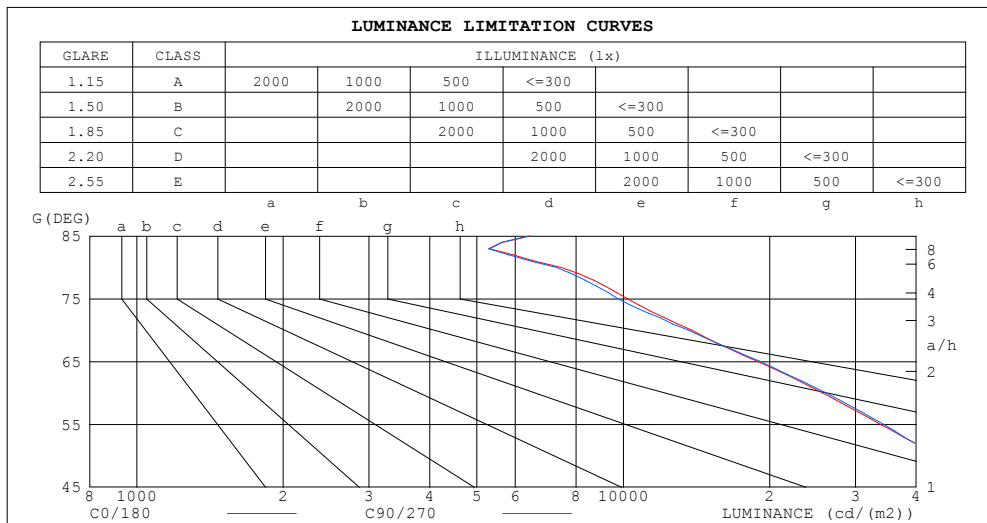
%lamp = 89.5%

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:218.81V I:0.4852A P:101.09W PF:0.9521 Freq:58.98Hz Lamp Flux:15699.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6441	6389
80	7443	7279
75	10203	9755
70	13813	13611
65	18918	19141
60	25692	26130
55	33734	34236
50	43920	43397
45	55128	52916

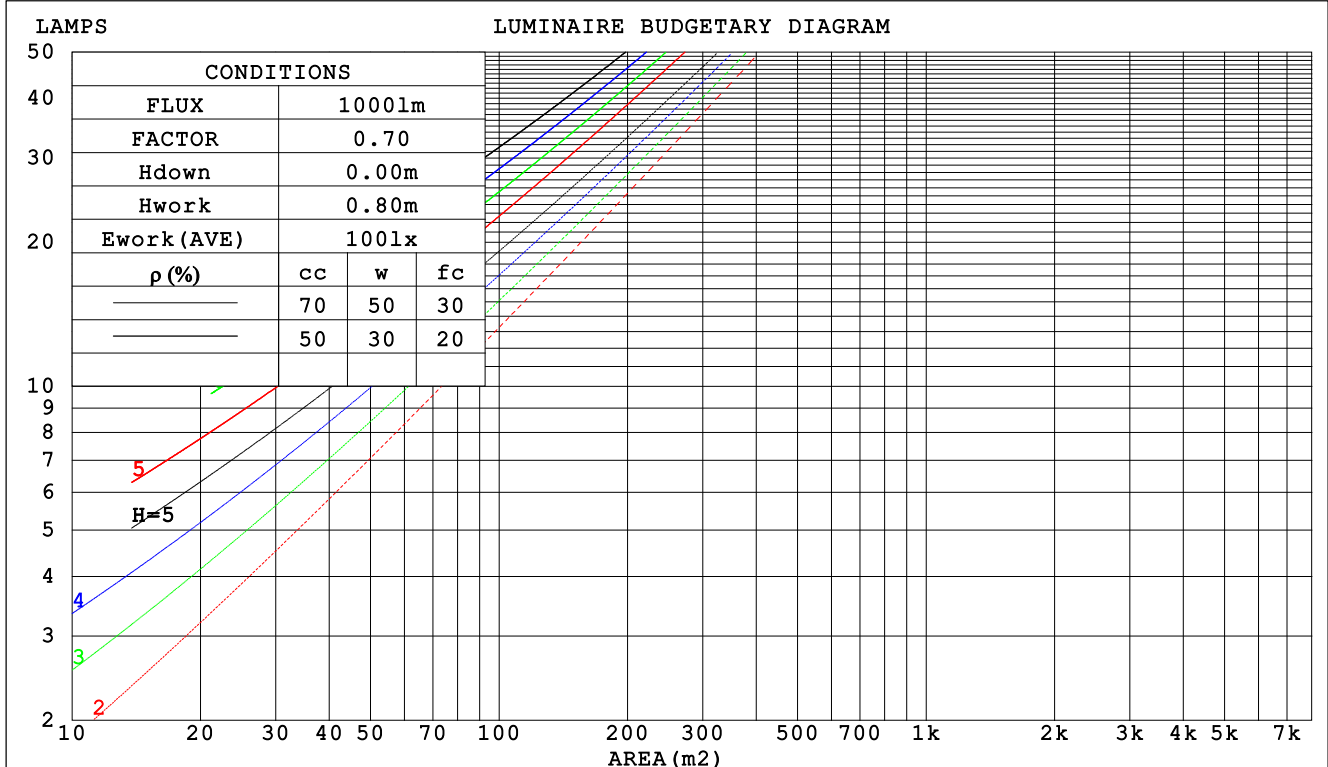
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.81V I:0.4852A P:101.09W PF:0.9521 Freq:58.98Hz Lamp Flux:15699.4x1 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	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	1.07	1.03	.00	1.04	1.01	.98	.00	.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	.80	.75	.70	.77	.73	.69	.75	.71	.68	.66
4.0	.77	.69	.63	.75	.68	.63	.73	.66	.62	.70	.65	.61	.68	.63	.60	.58
5.0	.69	.61	.55	.68	.61	.55	.66	.59	.54	.64	.58	.54	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.49	.60	.53	.48	.58	.52	.48	.56	.51	.47	.45
7.0	.57	.49	.44	.57	.49	.44	.55	.48	.43	.53	.47	.43	.52	.46	.42	.40
8.0	.53	.45	.39	.52	.44	.39	.50	.44	.39	.49	.43	.39	.48	.42	.38	.36
9.0	.48	.41	.36	.48	.41	.36	.47	.40	.35	.45	.39	.35	.44	.39	.35	.33
10.0	.45	.37	.33	.44	.37	.32	.43	.37	.32	.42	.36	.32	.41	.36	.32	.30



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:

WEC AND CCEC

Test:U:218.81V I:0.4852A P:101.09W PF:0.9521 Freq:58.98Hz Lamp Flux:15699.4x1 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	.248	.141	.045	.240	.137	.044	.226	.130	.041	.213	.123	.039	.201	.116	.038		
2.0	.241	.132	.040	.234	.129	.040	.221	.123	.038	.210	.118	.037	.199	.113	.036		
3.0	.228	.122	.036	.223	.119	.036	.212	.115	.035	.201	.110	.034	.192	.106	.033		
4.0	.215	.112	.033	.210	.110	.033	.201	.106	.032	.191	.103	.031	.183	.099	.030		
5.0	.203	.103	.030	.198	.102	.030	.190	.099	.029	.181	.096	.028	.174	.093	.028		
6.0	.191	.096	.027	.187	.094	.027	.179	.092	.027	.172	.089	.026	.165	.087	.026		
7.0	.180	.089	.025	.176	.088	.025	.169	.086	.025	.163	.083	.024	.157	.081	.024		
8.0	.170	.083	.023	.167	.082	.023	.160	.080	.023	.154	.078	.023	.149	.076	.022		
9.0	.161	.078	.022	.158	.077	.022	.152	.075	.021	.146	.073	.021	.141	.072	.021		
10.0	.152	.073	.020	.149	.072	.020	.144	.071	.020	.139	.069	.020	.135	.068	.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	.122	.122	.122	.070	.070	.070	.022	.022	.022		
1.0	.194	.175	.157	.166	.150	.135	.114	.103	.094	.065	.060	.054	.021	.019	.018		
2.0	.184	.150	.122	.157	.129	.106	.108	.089	.074	.062	.052	.043	.020	.017	.014		
3.0	.175	.132	.098	.150	.114	.085	.103	.079	.060	.059	.046	.035	.019	.015	.012		
4.0	.167	.119	.082	.143	.102	.071	.098	.071	.050	.057	.042	.030	.018	.014	.010		
5.0	.160	.108	.070	.137	.093	.061	.094	.065	.043	.055	.038	.025	.018	.012	.008		
6.0	.153	.099	.061	.131	.086	.053	.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	.087	.049	.121	.075	.043	.084	.053	.030	.049	.031	.018	.016	.010	.006		
9.0	.135	.082	.045	.117	.071	.040	.081	.050	.028	.047	.029	.017	.015	.010	.006		
10.0	.130	.077	.042	.112	.067	.037	.078	.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:218.81V I:0.4852A P:101.09W PF:0.9521 Freq:58.98Hz Lamp Flux:15699.4x1 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	14.8	16.1	15.1	16.3	16.5	14.7	16.0	15.0	16.3	16.5
3H	15.0	16.2	15.3	16.5	16.8	15.0	16.2	15.3	16.4	16.7
4H	15.1	16.2	15.4	16.5	16.8	15.0	16.1	15.3	16.4	16.7
6H	15.0	16.1	15.4	16.4	16.7	15.0	16.0	15.3	16.3	16.7
8H	15.0	16.0	15.4	16.3	16.7	14.9	16.0	15.3	16.3	16.6
12H	15.0	15.9	15.3	16.3	16.6	14.9	15.9	15.3	16.2	16.6
4H 2H	14.9	16.0	15.2	16.3	16.6	14.8	16.0	15.2	16.2	16.5
3H	15.2	16.2	15.6	16.5	16.9	15.2	16.2	15.6	16.5	16.8
4H	15.3	16.2	15.7	16.5	16.9	15.3	16.1	15.7	16.5	16.9
6H	15.3	16.1	15.8	16.5	16.9	15.3	16.1	15.7	16.4	16.8
8H	15.3	16.0	15.8	16.4	16.9	15.3	16.0	15.7	16.4	16.8
12H	15.3	15.9	15.7	16.4	16.8	15.2	15.9	15.7	16.3	16.8
8H 4H	15.3	16.0	15.7	16.4	16.8	15.2	15.9	15.7	16.3	16.8
6H	15.3	15.9	15.8	16.4	16.8	15.3	15.9	15.7	16.3	16.8
8H	15.3	15.8	15.8	16.3	16.8	15.3	15.8	15.8	16.2	16.7
12H	15.3	15.8	15.8	16.2	16.8	15.3	15.7	15.8	16.2	16.7
12H 4H	15.2	15.9	15.7	16.3	16.7	15.2	15.8	15.6	16.2	16.7
6H	15.3	15.8	15.8	16.3	16.8	15.2	15.8	15.7	16.2	16.7
8H	15.3	15.7	15.8	16.2	16.7	15.2	15.7	15.8	16.2	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.2					+ 0.9 / - 1.1				
1.5H	+ 0.5 / - 0.6					+ 0.5 / - 0.5				
2.0H	+ 2.0 / - 2.0					+ 1.9 / - 1.9				

CIE Pub.117, 15699 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 9.6)
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:218.81V I:0.4852A P:101.09W PF:0.9521 Freq:58.98Hz Lamp Flux:15699.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

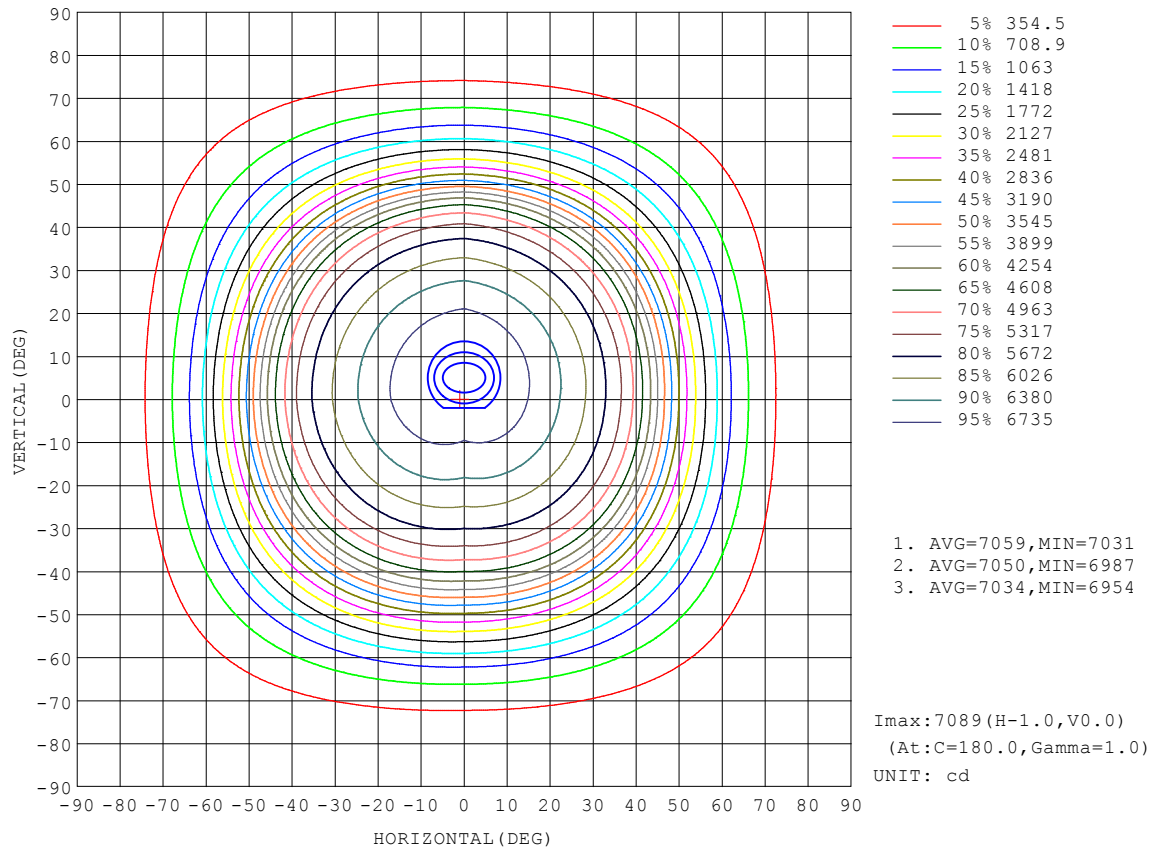
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	48	63	54	48	62	53	47	42
0.80	75	64	58	73	64	58	72	63	57	51
1.00	83	73	67	82	73	67	79	74	66	60
1.25	89	81	75	88	80	74	85	78	73	67
1.50	94	86	80	92	85	80	89	83	78	72
2.00	100	93	88	98	92	87	94	89	85	78
2.50	103	96	92	101	95	91	97	92	88	81
3.00	105	100	96	103	98	94	99	95	92	84
4.00	109	104	100	106	102	99	102	98	96	87
5.00	110	106	103	108	104	101	103	100	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:218.81V I:0.4852A P:101.09W PF:0.9521 Freq:58.98Hz Lamp Flux:15699.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

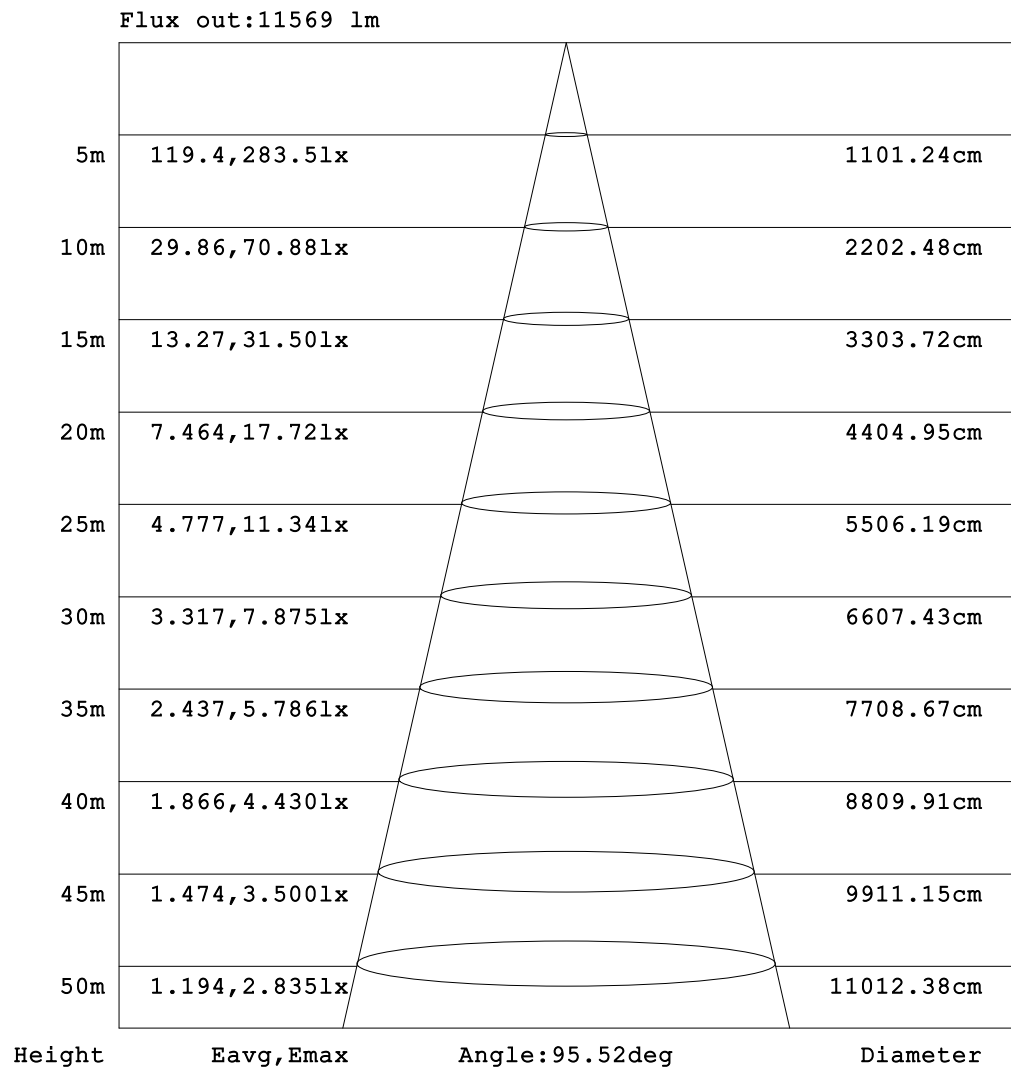


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

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:218.81V I:0.4852A P:101.09W PF:0.9521 Freq:58.98Hz Lamp Flux:15699.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



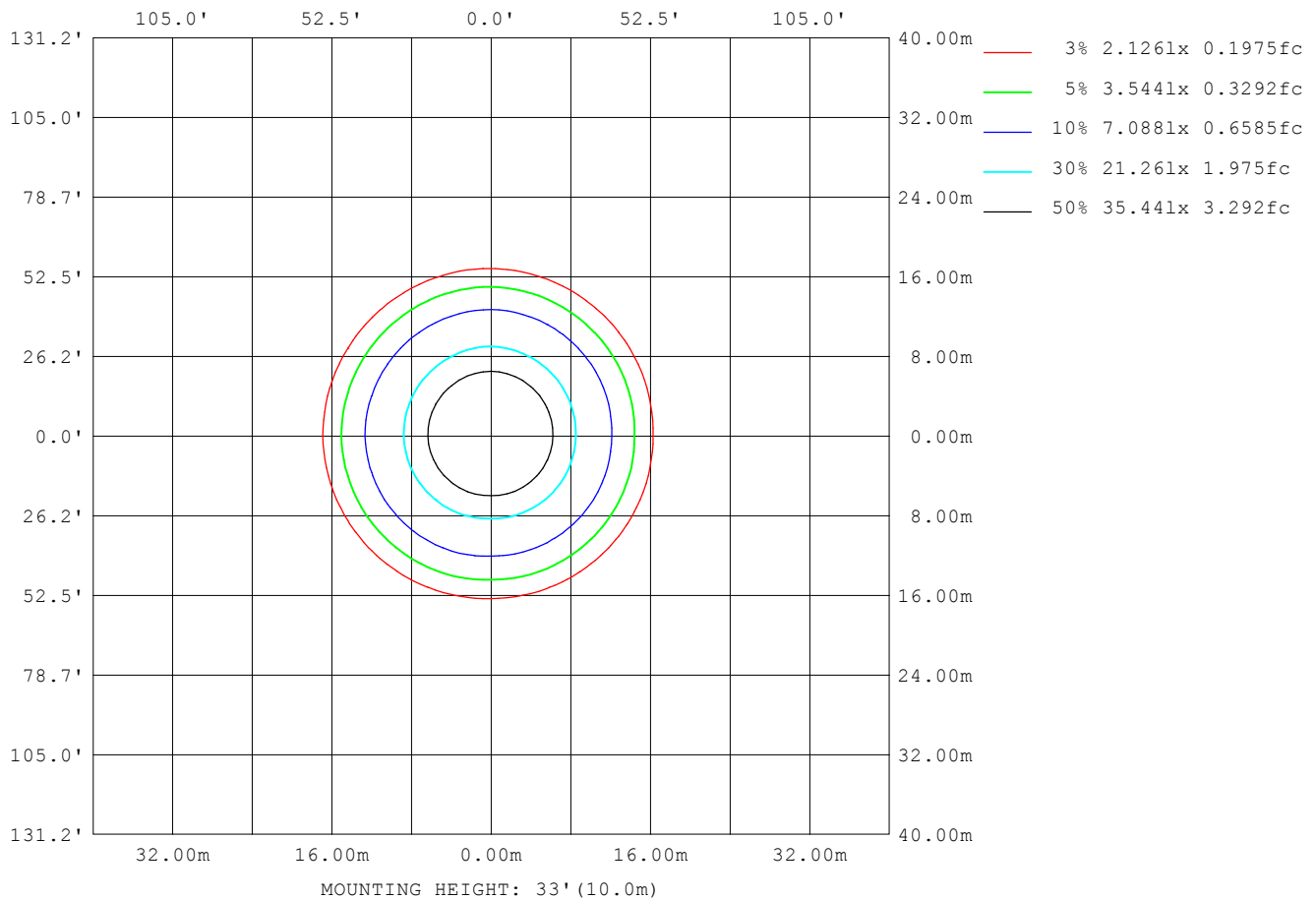
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:218.81V I:0.4852A P:101.09W PF:0.9521 Freq:58.98Hz Lamp Flux:15699.4x1 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:2024-12-17

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:218.81V I:0.4852A P:101.09W PF:0.9521 Freq:58.98Hz Lamp Flux:15699.4x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

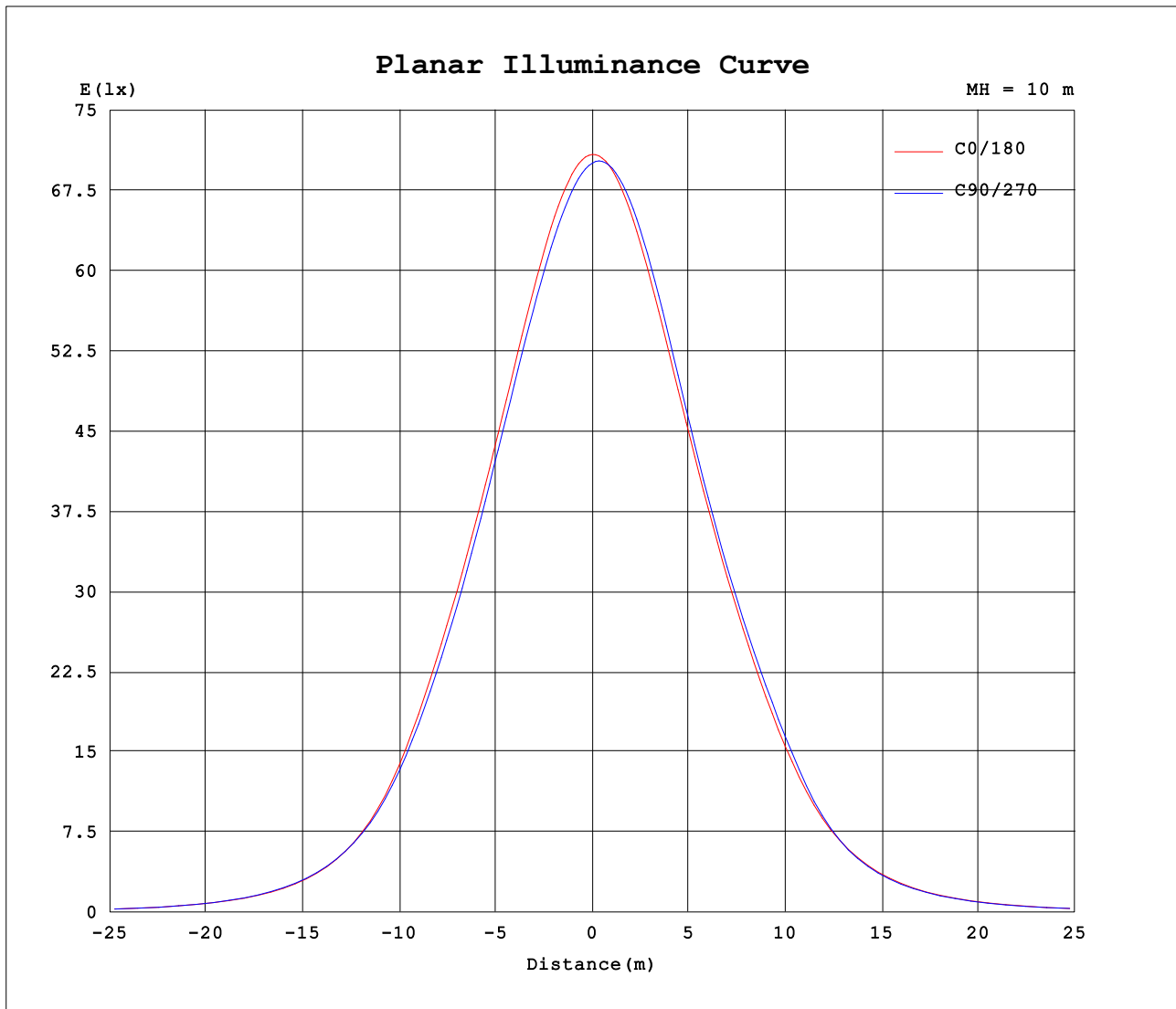
AvgL	cd/m2
L_0~180 (65) av	20705
L_0~180 (75) av	11274
L_0~180 (85) av	6088
L_90~270 (65) av	20718
L_90~270 (75) av	11021
L_90~270 (85) av	5964
L_45 (65) av	20825
L_45 (75) av	11183
L_45 (85) av	5988

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:218.81V I:0.4852A P:101.09W PF:0.9521 Freq:58.98Hz Lamp Flux:15699.4x1 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	7088	7007	7088	7007														
5	7036	6886	7066	7068														
10	6912	6718	6972	7055														
15	6728	6522	6816	6961														
20	6498	6293	6608	6784														
25	6227	6019	6360	6535														
30	5898	5673	6069	6225														
35	5476	5217	5704	5871														
40	4852	4606	5191	5411														
45	3898	3742	4402	4659														
50	2823	2789	3325	3414														
55	1935	1964	2327	2282														
60	1285	1306	1530	1491														
65	799	809	951	942														
70	472	466	563	555														
75	264	252	320	318														
80	129	126	170	169														
85	56.1	55.7	50.0	48.3														
90	48.6	48.0	28.7	28.1														
95	45.2	44.7	30.8	30.2														
100	43.8	43.5	33.9	33.1														
105	44.5	44.6	37.6	36.7														
110	46.6	47.1	42.0	41.1														
115	49.8	50.4	46.9	45.9														
120	53.9	54.6	52.1	51.1														
125	58.5	59.5	57.8	56.5														
130	63.6	64.8	63.8	62.2														
135	68.7	70.2	69.5	67.9														
140	73.9	75.8	75.1	73.5														
145	79.2	81.1	80.4	79.0														
150	84.2	86.1	85.7	84.4														
155	88.9	90.9	90.8	89.6														
160	93.4	95.4	95.7	94.5														
165	97.5	99.3	99.9	98.7														
170	101	102	103	102														
175	103	105	105	104														
180	105	106	105	105														

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: