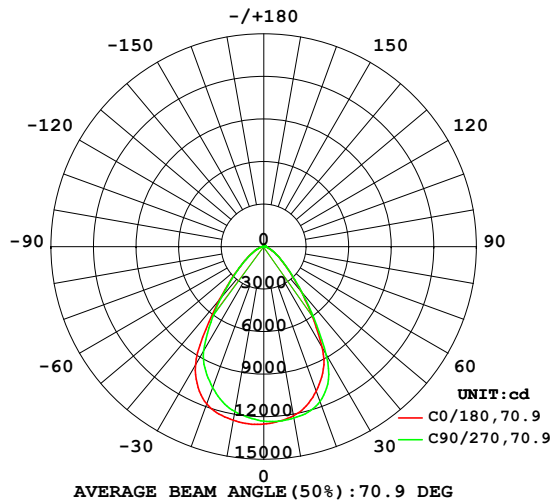


LUMINAIRE PHOTOMETRIC TEST REPORT

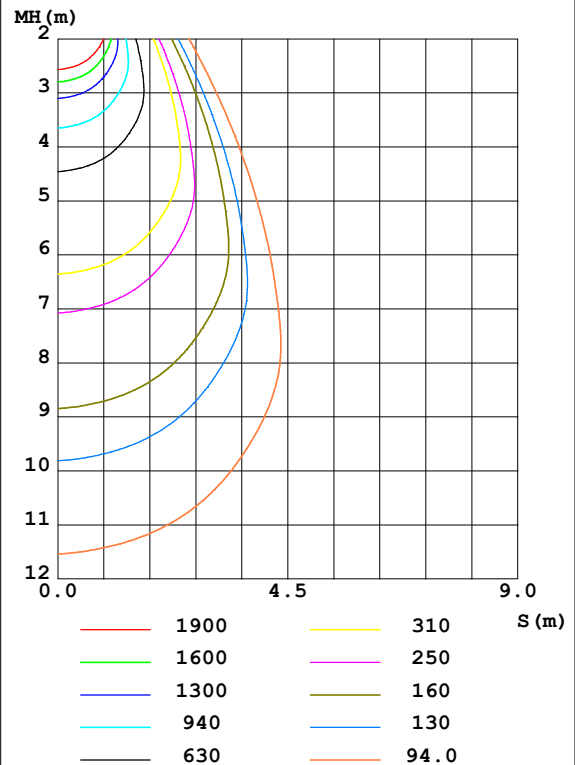
Test:U:218.35V I:0.7078A P:149.45W PF:0.9670 Freq:49.99Hz Lamp Flux:18388.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.04 lm/W			
MODEL		I _{max} (cd)	12552	S/MH (C0/180)	1.07
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	1.05
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	18389	η UP, DN (C0-180)	1.2, 47.4
NOMINAL FLUX (lm)	18388.9	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.2, 50.2
LAMPS INSIDE	1	η up (%)	2.4	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	97.6	CIBSE SHR MAX	1.05

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: 2024-10-11

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:

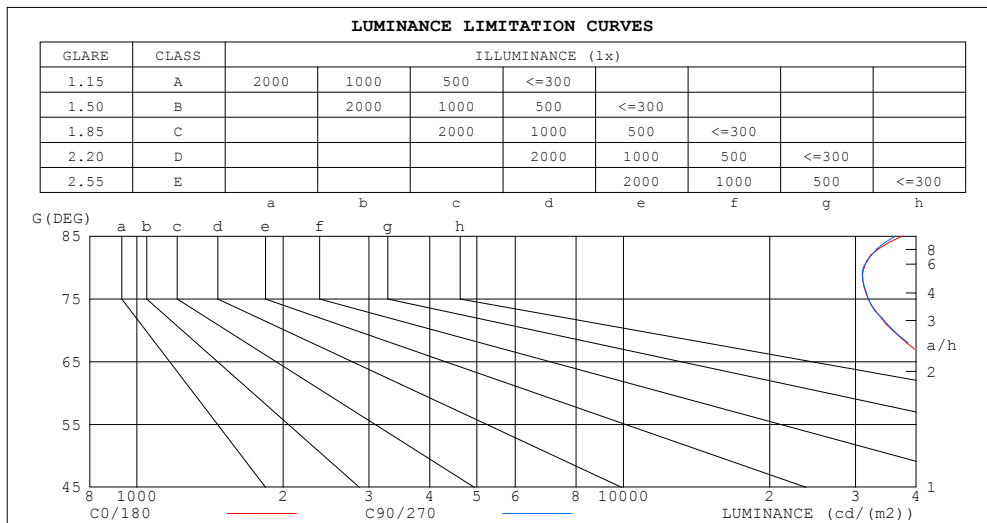
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1211	1227	1243	1181					0- 10	1172	1172	6.37,6.37
20	1084	1162	1180	1057					10- 20	3321	4493	24.4,24.4
30	825.9	883.7	963.4	849.0					20- 30	4690	9183	49.9,49.9
40	407.3	416.8	484.4	465.7					30- 40	4040	13223	71.9,71.9
50	186.2	191.3	217.6	213.9					40- 50	2343	15566	84.6,84.6
60	89.26	91.82	100.4	98.91					50- 60	1269	16835	91.6,91.6
70	42.80	42.91	46.38	45.77					60- 70	665.0	17500	95.2,95.2
80	19.01	18.92	19.36	18.99					70- 80	318.3	17818	96.9,96.9
90	5.835	5.624	5.677	5.834					80- 90	129.2	17948	97.6,97.6
100	4.645	4.622	4.078	3.996					90-100	49.06	17997	97.9,97.9
110	4.823	4.777	4.896	4.826					100-110	47.99	18045	98.1,98.1
120	5.832	5.670	6.060	6.025					110-120	52.68	18097	98.4,98.4
130	7.338	7.042	7.583	7.559					120-130	59.19	18157	98.7,98.7
140	9.122	8.742	9.367	9.333					130-140	63.62	18220	99.1,99.1
150	11.02	10.58	11.22	11.18					140-150	63.08	18283	99.4,99.4
160	12.74	12.34	12.78	12.60					150-160	54.51	18338	99.7,99.7
170	14.05	13.82	14.11	13.77					160-170	37.53	18375	99.9,99.9
180	14.64	14.58	14.86	14.41					170-180	13.60	18389	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-11

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:218.35V I:0.7078A P:149.45W PF:0.9670 Freq:49.99Hz Lamp Flux:18388.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



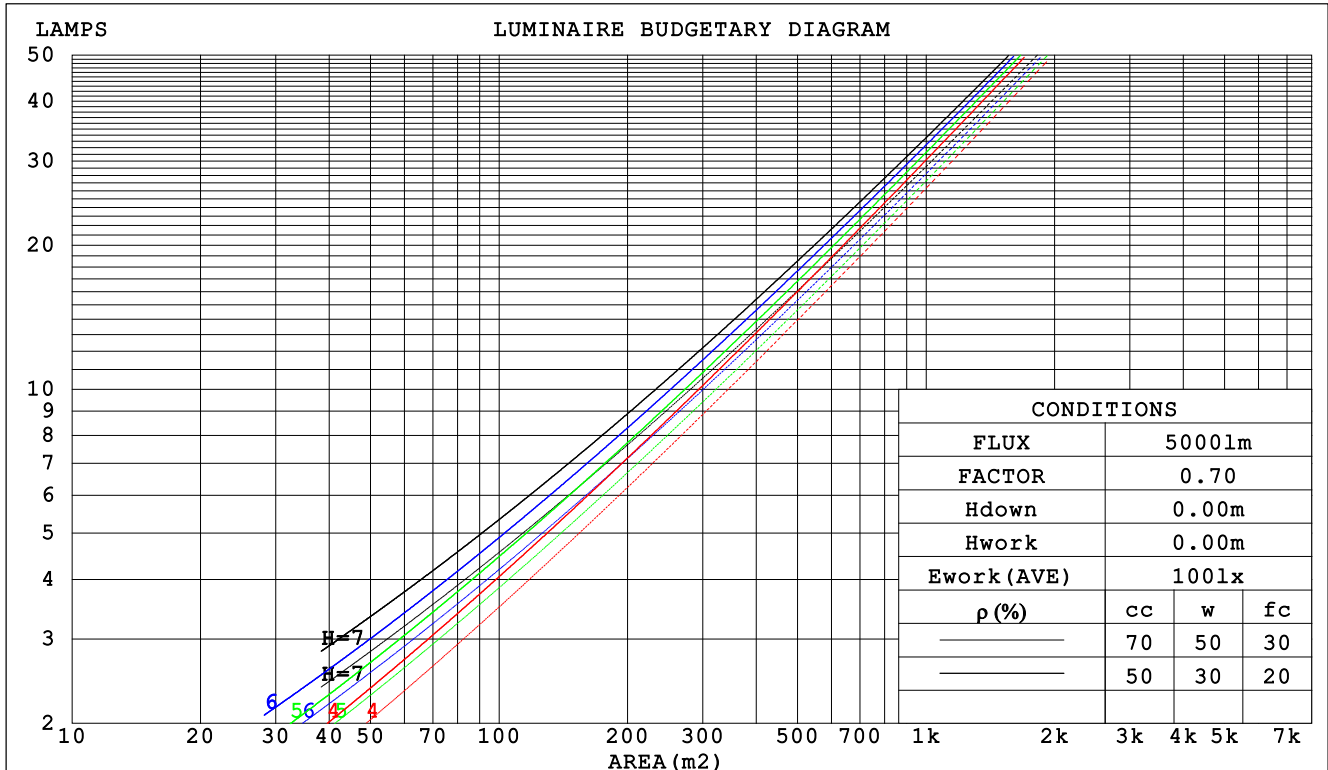
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-10-11

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:218.35V I:0.7078A P:149.45W PF:0.9670 Freq:49.99Hz Lamp Flux:18388.9x1 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	1.08	1.05	1.02	1.05	1.02	.00	1.01	.98	.96	.97	.95	.93	.93	.91	.90	.88
2.0	.98	.93	.88	.96	.91	.87	.92	.88	.85	.89	.86	.83	.85	.83	.81	.79
3.0	.89	.83	.78	.87	.82	.77	.84	.80	.76	.82	.77	.74	.79	.75	.73	.71
4.0	.82	.75	.70	.80	.74	.69	.78	.72	.68	.75	.71	.67	.73	.69	.66	.64
5.0	.75	.68	.63	.74	.67	.62	.72	.66	.61	.69	.64	.61	.68	.63	.60	.58
6.0	.69	.62	.57	.68	.61	.56	.66	.60	.56	.64	.59	.55	.63	.58	.55	.53
7.0	.64	.57	.52	.63	.56	.51	.61	.55	.51	.60	.55	.51	.59	.54	.50	.48
8.0	.59	.52	.47	.59	.52	.47	.57	.51	.47	.56	.50	.47	.55	.50	.46	.45
9.0	.55	.48	.44	.55	.48	.44	.53	.47	.43	.52	.47	.43	.51	.46	.43	.41
10.0	.52	.45	.40	.51	.45	.40	.50	.44	.40	.49	.44	.40	.48	.43	.40	.38



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-11

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:218.35V I:0.7078A P:149.45W PF:0.9670 Freq:49.99Hz Lamp Flux:18388.9x1 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	.226	.128	.041	.218	.124	.040	.204	.117	.037	.191	.110	.035	.179	.104	.033			
2.0	.215	.118	.036	.209	.115	.035	.197	.109	.034	.185	.104	.033	.175	.099	.031			
3.0	.204	.108	.032	.198	.106	.032	.187	.101	.031	.177	.097	.030	.168	.093	.029			
4.0	.192	.100	.029	.187	.098	.029	.178	.094	.028	.169	.091	.027	.161	.087	.027			
5.0	.181	.092	.027	.177	.091	.026	.168	.088	.026	.161	.085	.025	.153	.082	.025			
6.0	.171	.086	.025	.167	.084	.024	.160	.082	.024	.153	.079	.023	.146	.077	.023			
7.0	.162	.080	.023	.158	.079	.022	.152	.077	.022	.145	.075	.022	.140	.072	.021			
8.0	.154	.075	.021	.150	.074	.021	.144	.072	.021	.139	.070	.020	.133	.068	.020			
9.0	.146	.071	.020	.143	.070	.020	.138	.068	.019	.132	.066	.019	.127	.065	.019			
10.0	.139	.067	.018	.136	.066	.018	.131	.064	.018	.126	.063	.018	.122	.061	.018			

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	.209	.209	.209	.178	.178	.178	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.193	.175	.159	.165	.150	.137	.113	.104	.095	.065	.060	.055	.021	.019	.018	
2.0	.181	.151	.126	.155	.130	.109	.106	.090	.076	.061	.052	.044	.020	.017	.014	
3.0	.170	.133	.102	.146	.114	.089	.100	.079	.062	.058	.046	.037	.019	.015	.012	
4.0	.162	.118	.086	.139	.102	.074	.095	.071	.052	.055	.042	.031	.018	.014	.010	
5.0	.154	.107	.073	.132	.093	.064	.091	.065	.045	.053	.038	.027	.017	.012	.009	
6.0	.147	.099	.064	.126	.085	.056	.087	.060	.040	.050	.035	.023	.016	.011	.008	
7.0	.140	.091	.057	.121	.079	.050	.083	.056	.035	.048	.033	.021	.016	.011	.007	
8.0	.135	.086	.052	.116	.074	.045	.080	.052	.032	.047	.031	.019	.015	.010	.006	
9.0	.129	.080	.047	.111	.070	.041	.077	.049	.029	.045	.029	.018	.015	.010	.006	
10.0	.124	.076	.044	.107	.066	.038	.074	.047	.027	.043	.028	.016	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-10-11

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:218.35V I:0.7078A P:149.45W PF:0.9670 Freq:49.99Hz Lamp Flux:18388.9x1 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	25.6	26.8	25.9	27.0	27.2	25.7	26.9	26.0	27.1	27.3
3H	26.0	27.0	26.3	27.3	27.6	26.1	27.2	26.4	27.4	27.7
4H	26.1	27.1	26.5	27.4	27.7	26.2	27.2	26.6	27.5	27.8
6H	26.3	27.2	26.6	27.5	27.8	26.4	27.3	26.7	27.6	27.9
8H	26.3	27.2	26.7	27.5	27.9	26.4	27.3	26.8	27.6	27.9
12H	26.4	27.2	26.7	27.6	27.9	26.5	27.3	26.8	27.6	28.0
4H 2H	25.7	26.7	26.0	27.0	27.3	25.8	26.8	26.1	27.1	27.4
3H	26.2	27.1	26.6	27.4	27.7	26.3	27.2	26.7	27.5	27.8
4H	26.5	27.2	26.9	27.6	28.0	26.5	27.3	26.9	27.7	28.0
6H	26.7	27.4	27.1	27.8	28.2	26.8	27.5	27.2	27.8	28.2
8H	26.8	27.5	27.2	27.9	28.3	26.9	27.5	27.3	27.9	28.3
12H	26.9	27.5	27.4	27.9	28.4	27.0	27.6	27.4	28.0	28.4
8H 4H	26.5	27.1	26.9	27.5	28.0	26.6	27.2	27.0	27.6	28.0
6H	26.8	27.4	27.3	27.8	28.3	26.9	27.4	27.4	27.9	28.4
8H	27.0	27.5	27.5	28.0	28.5	27.1	27.6	27.6	28.0	28.5
12H	27.2	27.6	27.7	28.1	28.6	27.3	27.7	27.8	28.2	28.7
12H 4H	26.5	27.1	26.9	27.5	27.9	26.6	27.1	27.0	27.6	28.0
6H	26.9	27.3	27.4	27.8	28.3	26.9	27.4	27.4	27.9	28.4
8H	27.1	27.5	27.6	28.0	28.5	27.2	27.5	27.7	28.0	28.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.2					+ 0.9 / - 1.2				
1.5H	+ 1.3 / - 0.8					+ 1.3 / - 0.8				
2.0H	+ 1.6 / - 1.0					+ 1.6 / - 1.0				

CIE Pub.117, 18389 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.1$)
Area: 0.035 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-11

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:218.35V I:0.7078A P:149.45W PF:0.9670 Freq:49.99Hz Lamp Flux:18388.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

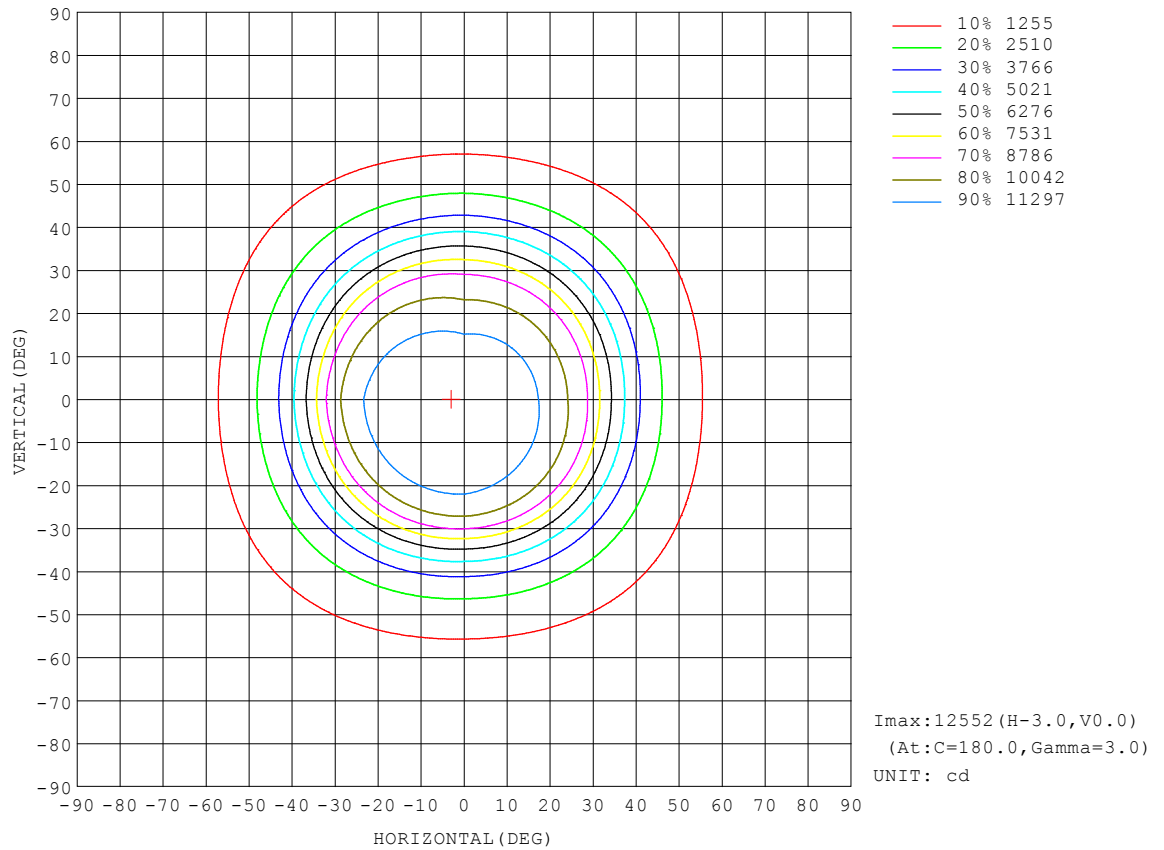
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	74	65	60	73	65	60	72	65	60	55
0.80	83	75	69	82	74	69	80	73	69	64
1.00	89	81	76	88	81	76	86	81	75	70
1.25	95	87	83	93	87	82	91	85	81	75
1.50	98	92	87	97	91	86	94	89	85	79
2.00	103	97	93	101	96	92	98	93	90	83
2.50	105	100	96	103	99	95	100	96	93	85
3.00	108	103	99	105	101	98	101	98	95	88
4.00	110	106	103	108	104	102	104	101	99	90
5.00	112	109	106	109	106	104	105	103	101	92
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: 2024-10-11

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:218.35V I:0.7078A P:149.45W PF:0.9670 Freq:49.99Hz Lamp Flux:18388.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

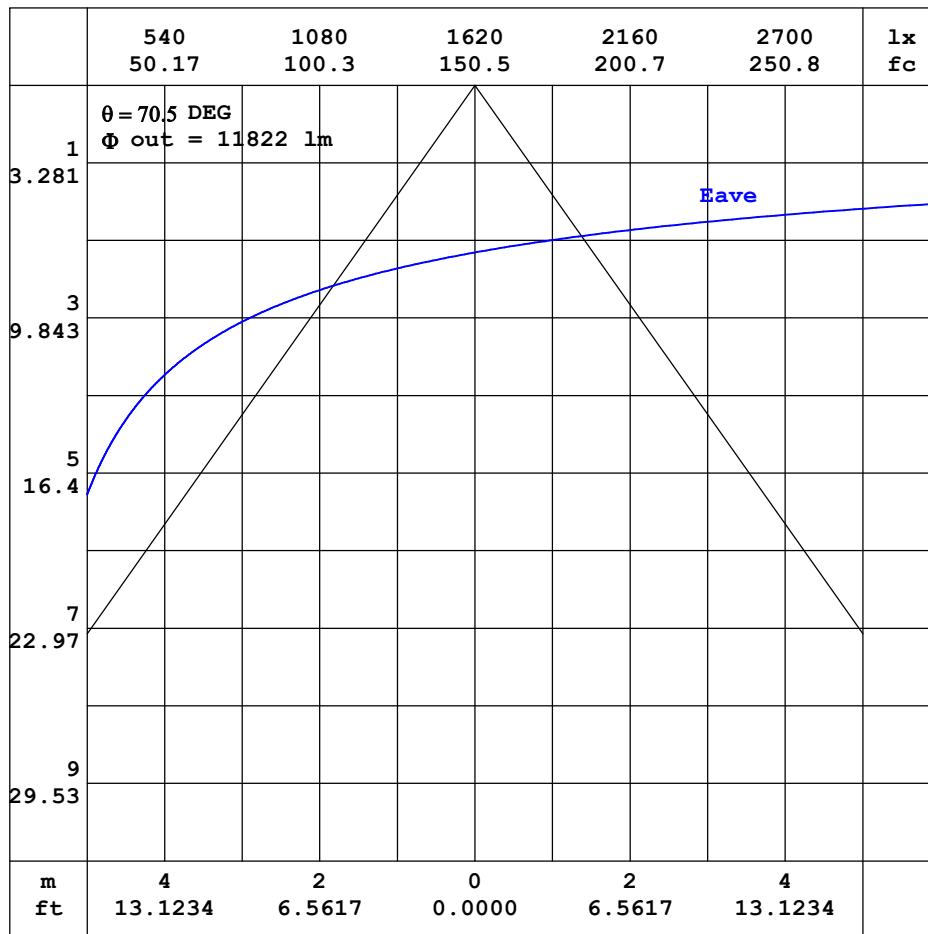


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-11

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 CURVES

Test:U:218.35V I:0.7078A P:149.45W PF:0.9670 Freq:49.99Hz Lamp Flux:18388.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



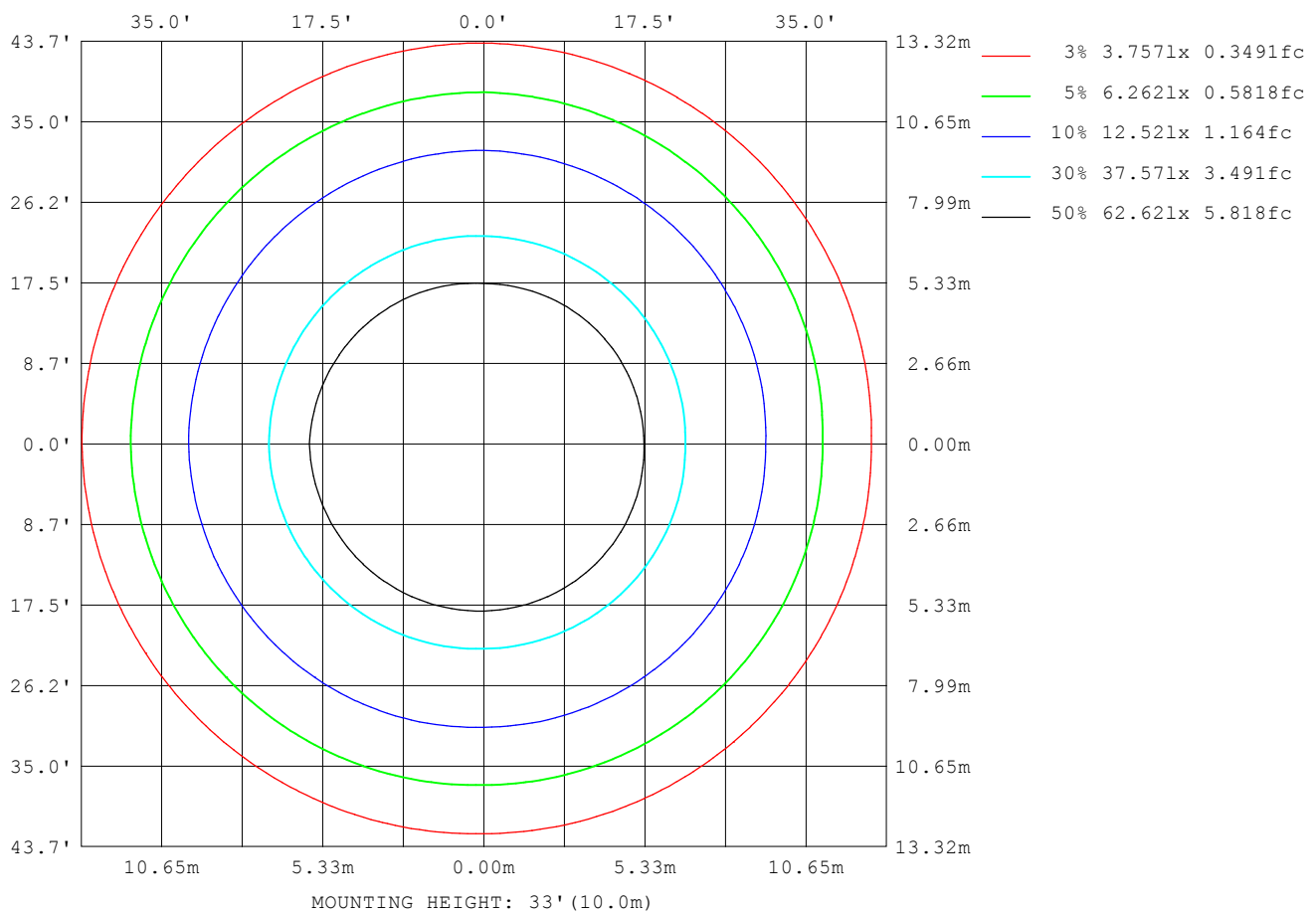
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-10-11

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:218.35V I:0.7078A P:149.45W PF:0.9670 Freq:49.99Hz Lamp Flux:18388.9x1 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: 2024-10-11

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:218.35V I:0.7078A P:149.45W PF:0.9670 Freq:49.99Hz Lamp Flux:18388.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

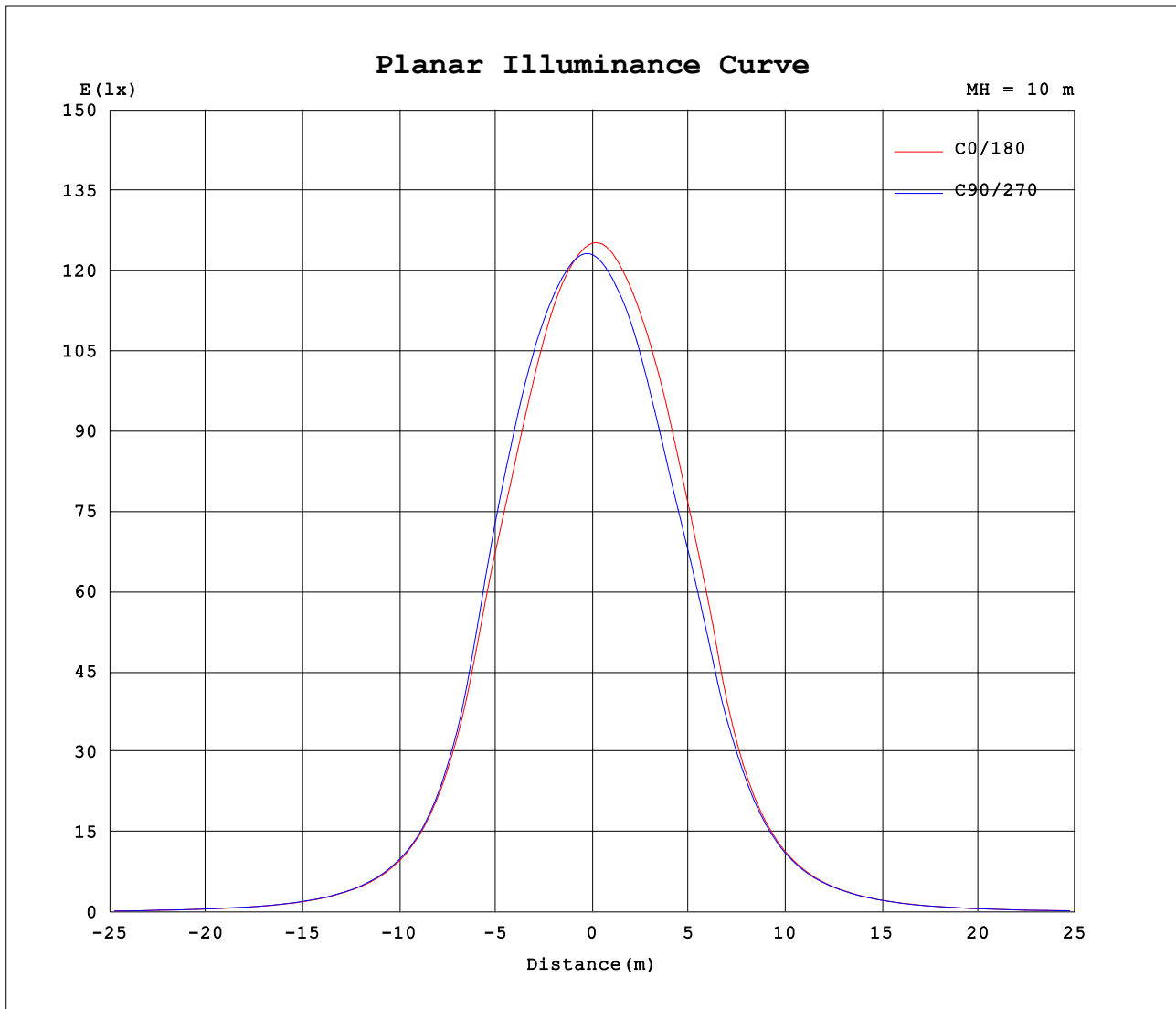
AvgL	cd/m2
L_0~180 (65) av	44768
L_0~180 (75) av	32560
L_0~180 (85) av	38538
L_90~270 (65) av	44764
L_90~270 (75) av	32304
L_90~270 (85) av	38411
L_45 (65) av	44898
L_45 (75) av	32445
L_45 (85) av	38525

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-11

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: 2024-10-11

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:218.35V I:0.7078A P:149.45W PF:0.9670 Freq:49.99Hz Lamp Flux:18388.9x1 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	1252	1230	1252	1230															
5	1236	1236	1254	1210															
10	1211	1227	1243	1181															
15	1162	1209	1222	1132															
20	1084	1162	1180	1057															
25	984	1069	1096	970															
30	826	884	963	849															
35	596	618	715	651															
40	407	417	484	466															
45	272	279	323	315															
50	186	191	218	214															
55	130	132	149	147															
60	89.3	91.8	100	98.9															
65	63.1	64.3	69.4	68.1															
70	42.8	42.9	46.4	45.8															
75	28.8	28.9	30.2	29.6															
80	19.0	18.9	19.4	19.0															
85	11.4	11.1	12.1	12.3															
90	5.83	5.62	5.68	5.83															
95	4.84	4.83	3.76	3.71															
100	4.64	4.62	4.08	4.00															
105	4.63	4.61	4.45	4.37															
110	4.82	4.78	4.90	4.83															
115	5.23	5.13	5.42	5.37															
120	5.83	5.67	6.06	6.02															
125	6.54	6.31	6.78	6.76															
130	7.34	7.04	7.58	7.56															
135	8.21	7.86	8.45	8.41															
140	9.12	8.74	9.37	9.33															
145	10.1	9.66	10.3	10.3															
150	11.0	10.6	11.2	11.2															
155	11.9	11.5	12.0	11.9															
160	12.7	12.3	12.8	12.6															
165	13.5	13.1	13.5	13.2															
170	14.1	13.8	14.1	13.8															
175	14.5	14.3	14.6	14.2															
180	14.6	14.6	14.9	14.4															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-10-11

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: