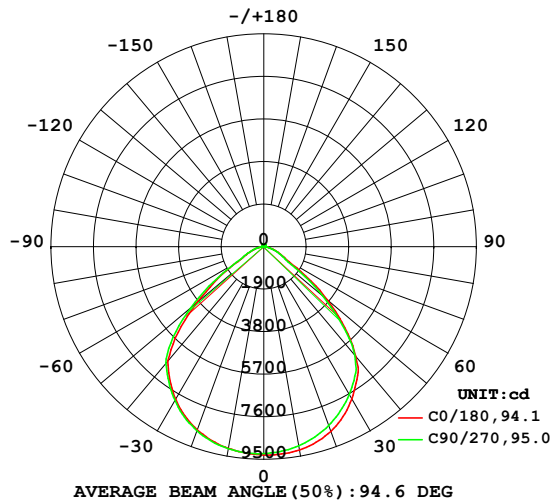


LUMINAIRE PHOTOMETRIC TEST REPORT

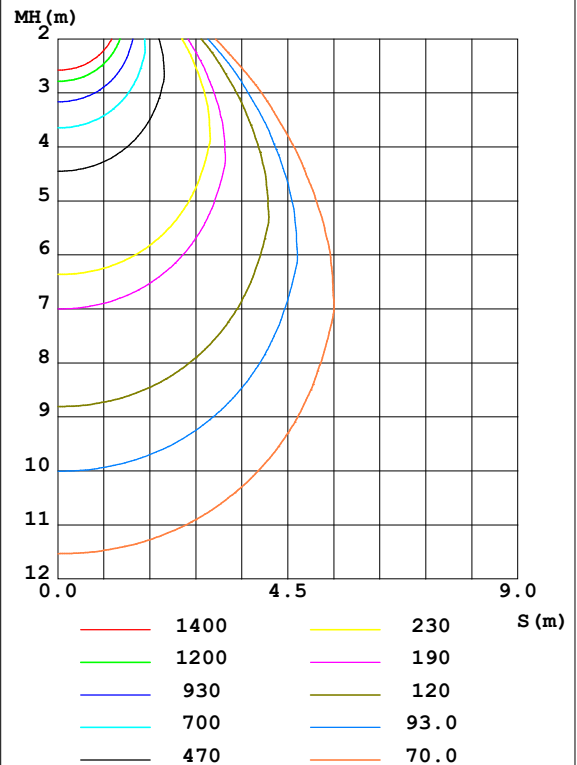
Test:U:218.34V I:0.6991A P:150.70W PF:0.9873 Freq:49.99Hz Lamp Flux:19789x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:φ0.255m	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.31 lm/W			
MODEL		I _{max} (cd)	9309	S/MH (C0/180)	1.25
NOMINAL POWER(W)	150	LOR(%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	19789	η UP,DN (C0-180)	1.2,47.5
NOMINAL FLUX(lm)	19789	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	1.35

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:2024-09-30

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:

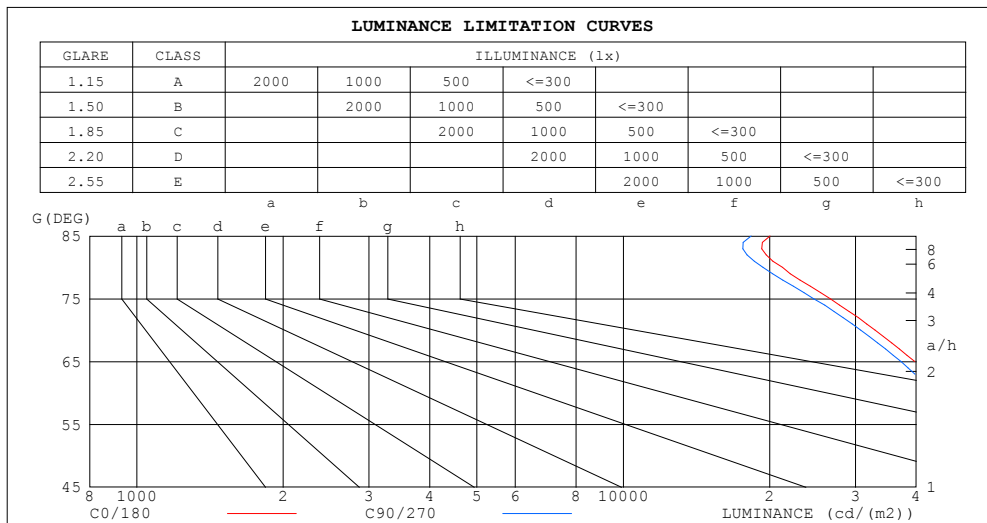
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	9216	9023	9146	9163					0- 10	878.7	878.7	4.44,4.44
20	8775	8497	8704	8752					10- 20	2527	3406	17.2,17.2
30	7862	7637	7863	7933					20- 30	3824	7230	36.5,36.5
40	6394	6320	6675	6801					30- 40	4530	11761	59.4,59.4
50	3727	3460	3905	4258					40- 50	4053	15813	79.9,79.9
60	1183	1105	1344	1422					50- 60	2165	17978	90.9,90.9
70	574.7	536.6	599.7	631.1					60- 70	866.4	18845	95.2,95.2
80	188.3	171.5	198.5	211.8					70- 80	390.4	19235	97.2,97.2
90	58.51	57.24	36.66	37.96					80- 90	106.8	19342	97.7,97.7
100	52.81	52.66	41.08	40.09					90-100	50.02	19392	98,98
110	55.84	56.34	51.13	49.86					100-110	52.45	19445	98.3,98.3
120	63.94	64.82	64.31	62.46					110-120	57.72	19502	98.6,98.6
130	76.17	77.74	79.88	78.04					120-130	63.36	19566	98.9,98.9
140	89.05	90.50	93.79	91.74					130-140	65.53	19631	99.2,99.2
150	101.0	102.2	106.8	104.5					140-150	61.02	19692	99.5,99.5
160	113.1	114.0	119.5	117.5					150-160	50.74	19743	99.8,99.8
170	123.2	123.7	126.3	124.8					160-170	34.08	19777	99.9,99.9
180	127.3	127.3	127.9	126.8					170-180	12.02	19789	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-30

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:218.34V I:0.6991A P:150.70W PF:0.9873 Freq:49.99Hz Lamp Flux:19789x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:φ0.255m	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	20024	18330
80	21262	19367
75	26614	24627
70	32945	30764
65	39709	37195
60	46390	43326
55	78533	67661
50	113683	105535
45	142056	138083

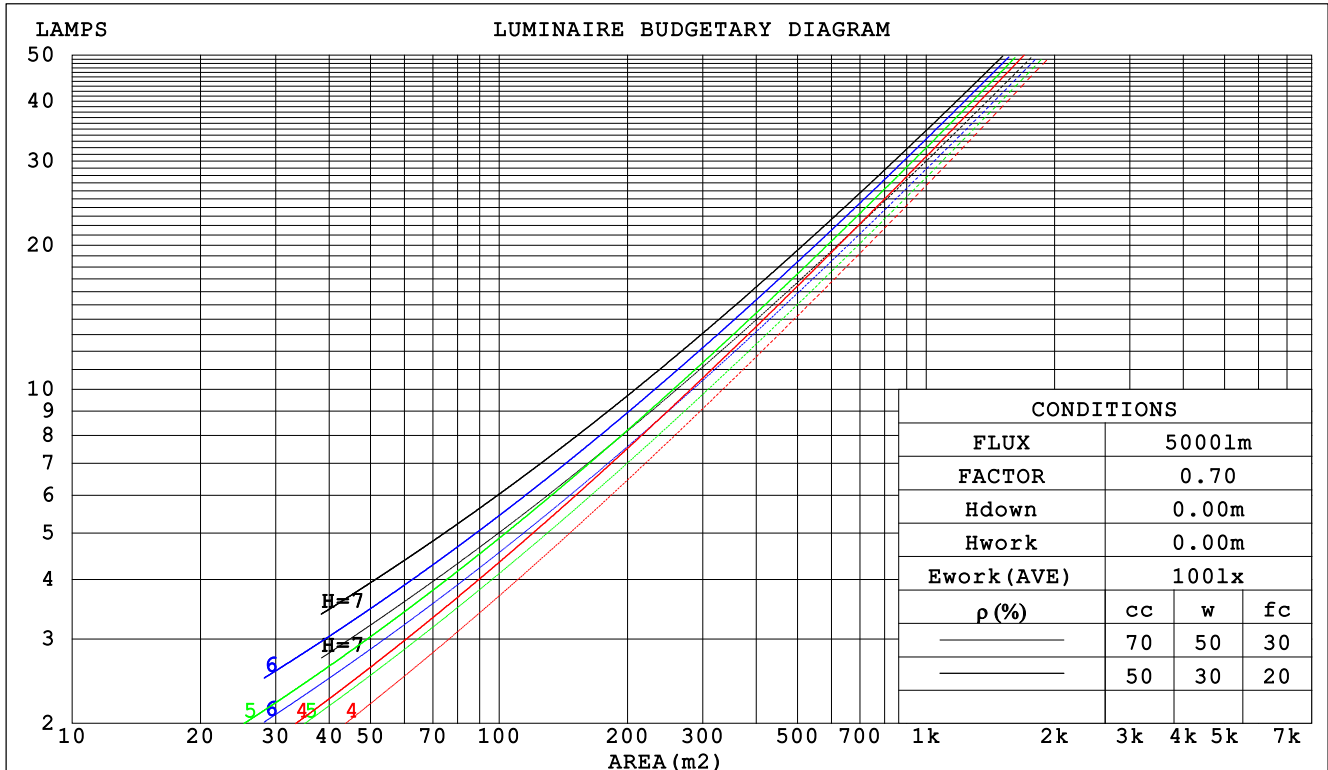
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-30

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:218.34V I:0.6991A P:150.70W PF:0.9873 Freq:49.99Hz Lamp Flux:19789x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:φ0.255m	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	1.07	1.03	1.00	1.04	1.01	.99	.00	.97	.95	.96	.94	.92	.92	.90	.89	.87
2.0	.96	.90	.86	.94	.89	.84	.90	.86	.82	.87	.83	.80	.83	.81	.78	.76
3.0	.86	.79	.74	.84	.78	.73	.81	.76	.72	.78	.74	.70	.76	.72	.69	.67
4.0	.78	.70	.64	.76	.69	.64	.74	.68	.63	.71	.66	.62	.69	.64	.61	.59
5.0	.70	.63	.57	.69	.62	.56	.67	.61	.56	.65	.59	.55	.63	.58	.54	.52
6.0	.64	.56	.50	.63	.56	.50	.61	.55	.50	.59	.53	.49	.58	.52	.48	.47
7.0	.59	.51	.45	.58	.50	.45	.56	.49	.45	.54	.49	.44	.53	.48	.44	.42
8.0	.54	.46	.41	.53	.46	.41	.52	.45	.40	.50	.44	.40	.49	.44	.40	.38
9.0	.50	.42	.37	.49	.42	.37	.48	.41	.37	.46	.41	.36	.45	.40	.36	.34
10.0	.46	.39	.34	.45	.38	.34	.44	.38	.33	.43	.37	.33	.42	.37	.33	.31



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-30

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:218.34V I:0.6991A P:150.70W PF:0.9873 Freq:49.99Hz Lamp Flux:19789x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: EVERFINE		SUR.:φ0.255m		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	.243	.138	.044	.235	.134	.043	.221	.127	.041	.208	.120	.039	.196	.114	.037	
2.0	.235	.129	.040	.228	.126	.039	.216	.120	.037	.205	.115	.036	.194	.110	.035	
3.0	.223	.119	.036	.217	.116	.035	.207	.112	.034	.197	.108	.033	.187	.104	.032	
4.0	.211	.110	.032	.206	.108	.032	.196	.104	.031	.187	.100	.030	.179	.097	.030	
5.0	.199	.101	.029	.194	.100	.029	.186	.097	.028	.178	.094	.028	.170	.091	.027	
6.0	.187	.094	.027	.183	.093	.027	.176	.090	.026	.169	.088	.026	.162	.085	.025	
7.0	.177	.088	.025	.173	.086	.025	.166	.084	.024	.160	.082	.024	.154	.080	.023	
8.0	.167	.082	.023	.164	.081	.023	.158	.079	.023	.152	.077	.022	.146	.075	.022	
9.0	.158	.077	.021	.155	.076	.021	.150	.074	.021	.144	.072	.021	.139	.071	.020	
10.0	.150	.072	.020	.148	.071	.020	.142	.070	.020	.138	.068	.019	.133	.067	.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	.177	.177	.177	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.193	.174	.157	.165	.149	.135	.113	.103	.093	.065	.059	.054	.021	.019	.018	
2.0	.182	.150	.122	.156	.129	.106	.107	.089	.074	.062	.052	.043	.020	.017	.014	
3.0	.173	.132	.098	.148	.113	.085	.102	.079	.060	.059	.046	.035	.019	.015	.012	
4.0	.165	.118	.082	.142	.102	.071	.097	.071	.050	.056	.042	.030	.018	.014	.010	
5.0	.158	.107	.070	.136	.093	.061	.093	.065	.043	.054	.038	.025	.017	.012	.008	
6.0	.151	.098	.061	.130	.085	.053	.090	.060	.037	.052	.035	.022	.017	.011	.007	
7.0	.145	.091	.054	.125	.079	.047	.086	.056	.033	.050	.033	.020	.016	.011	.007	
8.0	.139	.086	.049	.120	.074	.043	.083	.052	.030	.048	.031	.018	.016	.010	.006	
9.0	.134	.081	.045	.115	.070	.039	.080	.049	.028	.047	.029	.017	.015	.010	.005	
10.0	.129	.077	.042	.111	.066	.036	.077	.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:2024-09-30

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:218.34V I:0.6991A P:150.70W PF:0.9873 Freq:49.99Hz Lamp Flux:19789x1 lm										
NAME:					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVERFINE					SUR.:φ0.255m			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	27.2	28.5	27.5	28.8	29.0	27.0	28.3	27.3	28.5	28.7
3H	27.4	28.6	27.8	28.9	29.2	27.2	28.4	27.5	28.6	28.9
4H	27.5	28.6	27.8	28.9	29.2	27.2	28.3	27.6	28.6	28.9
6H	27.5	28.6	27.9	28.9	29.2	27.2	28.3	27.6	28.6	28.9
8H	27.5	28.5	27.9	28.8	29.1	27.2	28.2	27.6	28.5	28.9
12H	27.5	28.4	27.9	28.8	29.1	27.2	28.1	27.6	28.5	28.8
4H 2H	27.2	28.3	27.6	28.6	28.9	27.0	28.1	27.3	28.4	28.7
3H	27.5	28.5	27.9	28.8	29.2	27.3	28.3	27.7	28.6	28.9
4H	27.7	28.5	28.1	28.9	29.3	27.4	28.3	27.8	28.6	29.0
6H	27.7	28.5	28.2	28.9	29.3	27.5	28.2	27.9	28.6	29.0
8H	27.7	28.5	28.2	28.9	29.3	27.5	28.2	27.9	28.6	29.0
12H	27.8	28.4	28.2	28.8	29.3	27.5	28.1	27.9	28.5	29.0
8H 4H	27.6	28.3	28.1	28.7	29.2	27.4	28.1	27.8	28.5	28.9
6H	27.8	28.3	28.2	28.8	29.2	27.5	28.1	28.0	28.5	29.0
8H	27.8	28.3	28.3	28.8	29.3	27.6	28.1	28.0	28.5	29.0
12H	27.8	28.3	28.3	28.8	29.3	27.6	28.0	28.1	28.5	29.0
12H 4H	27.6	28.2	28.1	28.7	29.1	27.4	28.0	27.8	28.4	28.9
6H	27.7	28.2	28.2	28.7	29.2	27.5	28.0	28.0	28.5	29.0
8H	27.8	28.2	28.3	28.7	29.2	27.5	28.0	28.1	28.5	29.0
Variations with the observer position at spacings:										
S = 1.0H	+ 1.2 / - 1.5					+ 1.3 / - 1.7				
1.5H	+ 0.6 / - 1.3					+ 0.7 / - 1.4				
2.0H	+ 2.7 / - 2.5					+ 2.8 / - 2.4				

CIE Pub.117, 19789 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 10.4$)
Area: 0.051 m²

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-30

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:218.34V I:0.6991A P:150.70W PF:0.9873 Freq:49.99Hz Lamp Flux:19789x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:φ0.255m	Shielding Angle:

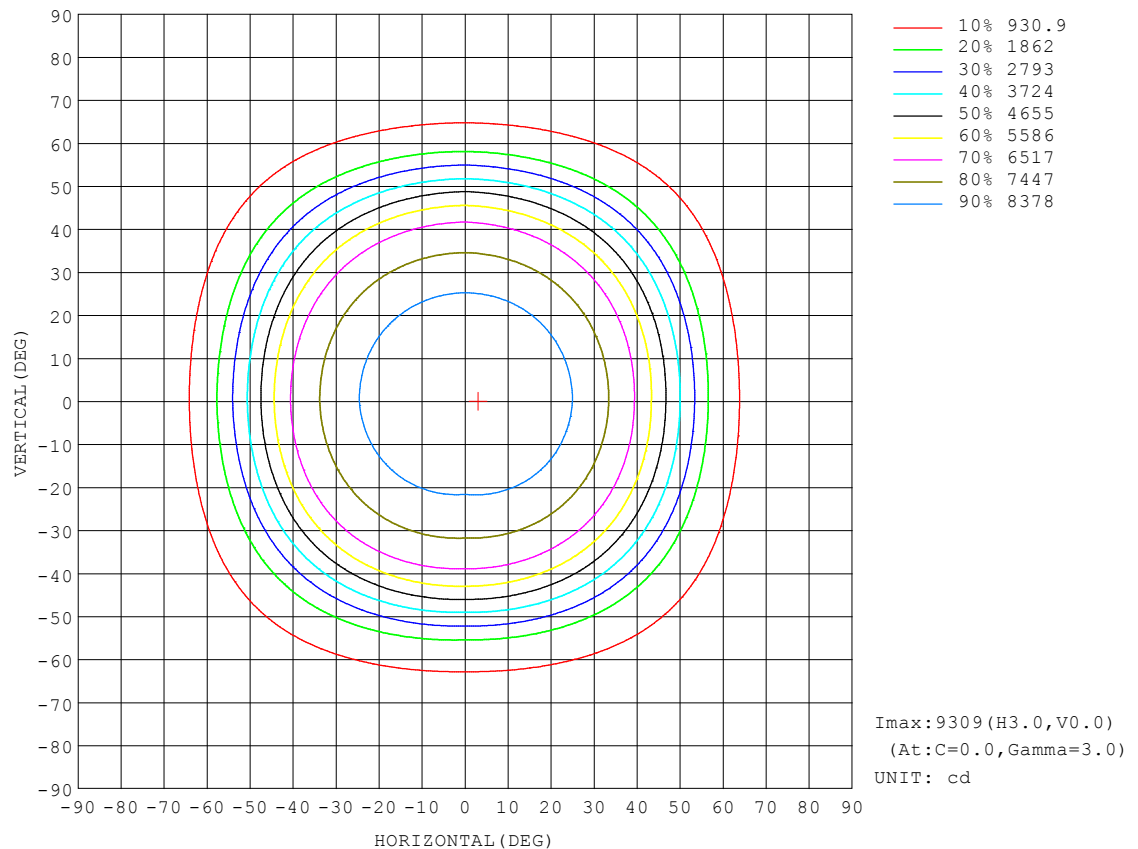
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	55	50	64	55	49	44
0.80	76	66	60	75	66	60	73	65	59	53
1.00	84	75	69	83	74	69	81	75	68	62
1.25	91	82	77	89	81	76	87	80	75	69
1.50	95	87	82	93	86	81	90	84	80	73
2.00	100	94	89	99	93	88	95	90	86	79
2.50	103	97	93	101	96	92	97	93	89	82
3.00	106	101	96	104	99	95	100	96	93	84
4.00	109	104	101	106	103	99	102	99	96	87
5.00	111	107	104	108	105	102	103	101	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: 2024-09-30

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:218.34V I:0.6991A P:150.70W PF:0.9873 Freq:49.99Hz Lamp Flux:19789x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:φ0.255m	Shielding Angle:

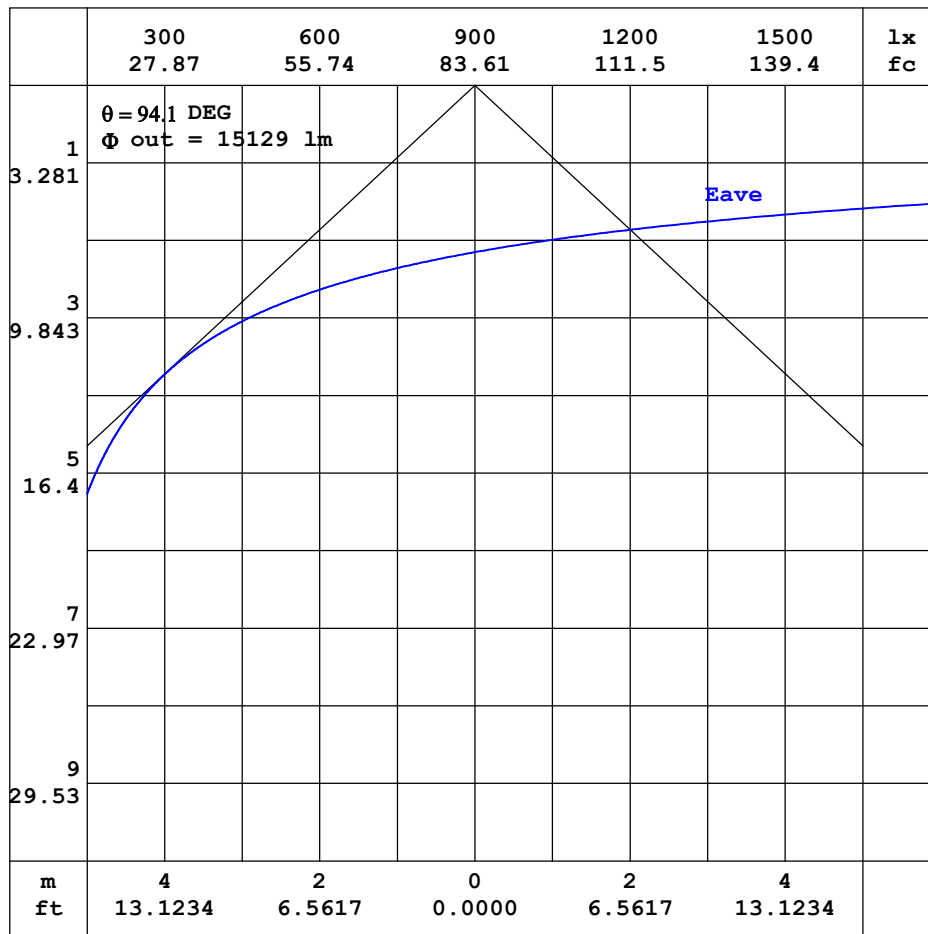


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-30

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:218.34V I:0.6991A P:150.70W PF:0.9873 Freq:49.99Hz Lamp Flux:19789x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:φ0.255m	Shielding Angle:



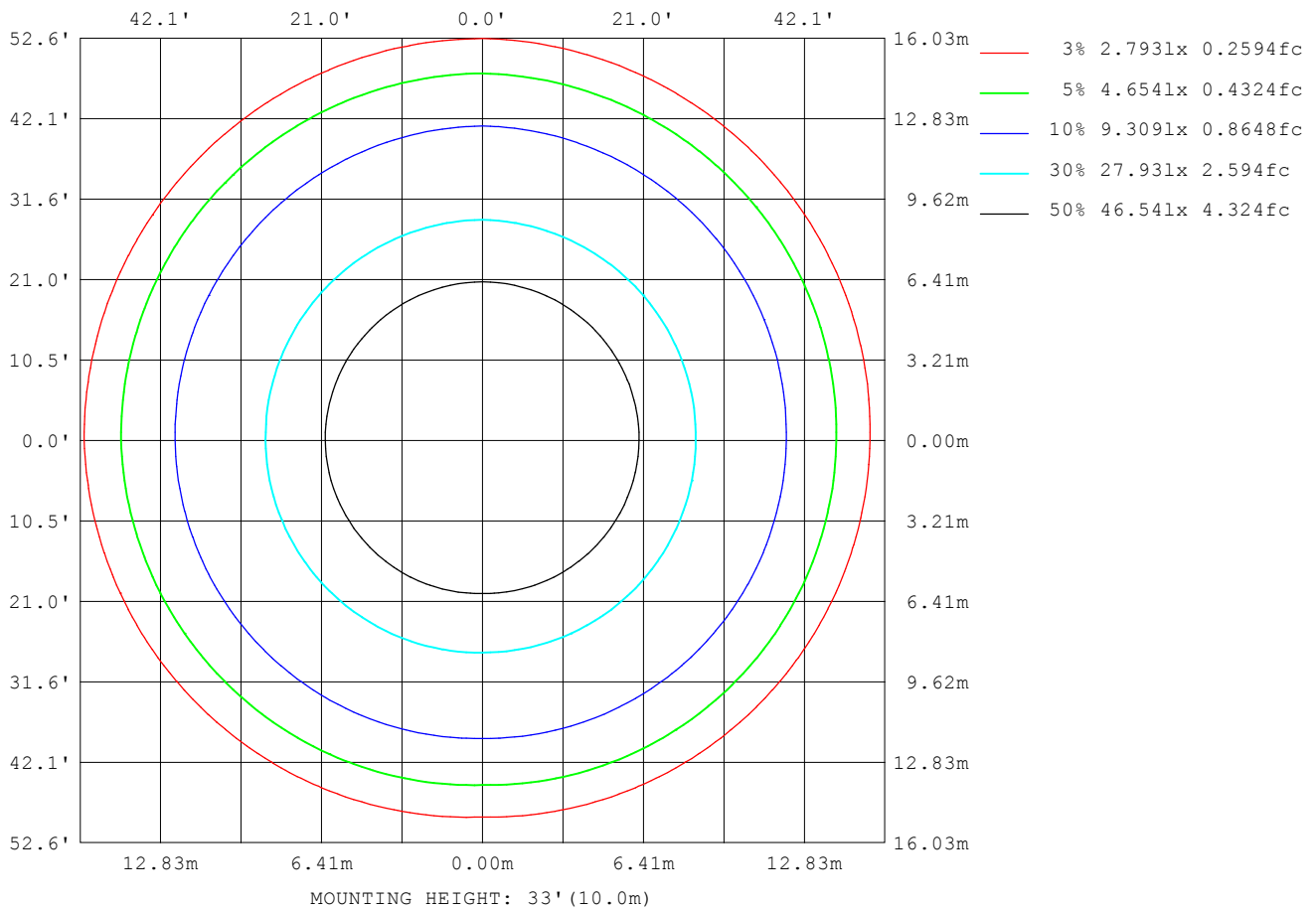
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-09-30

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:218.34V I:0.6991A P:150.70W PF:0.9873 Freq:49.99Hz Lamp Flux:19789x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:φ0.255m	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-30

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:218.34V I:0.6991A P:150.70W PF:0.9873 Freq:49.99Hz Lamp Flux:19789x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:φ0.255m	Shielding Angle:

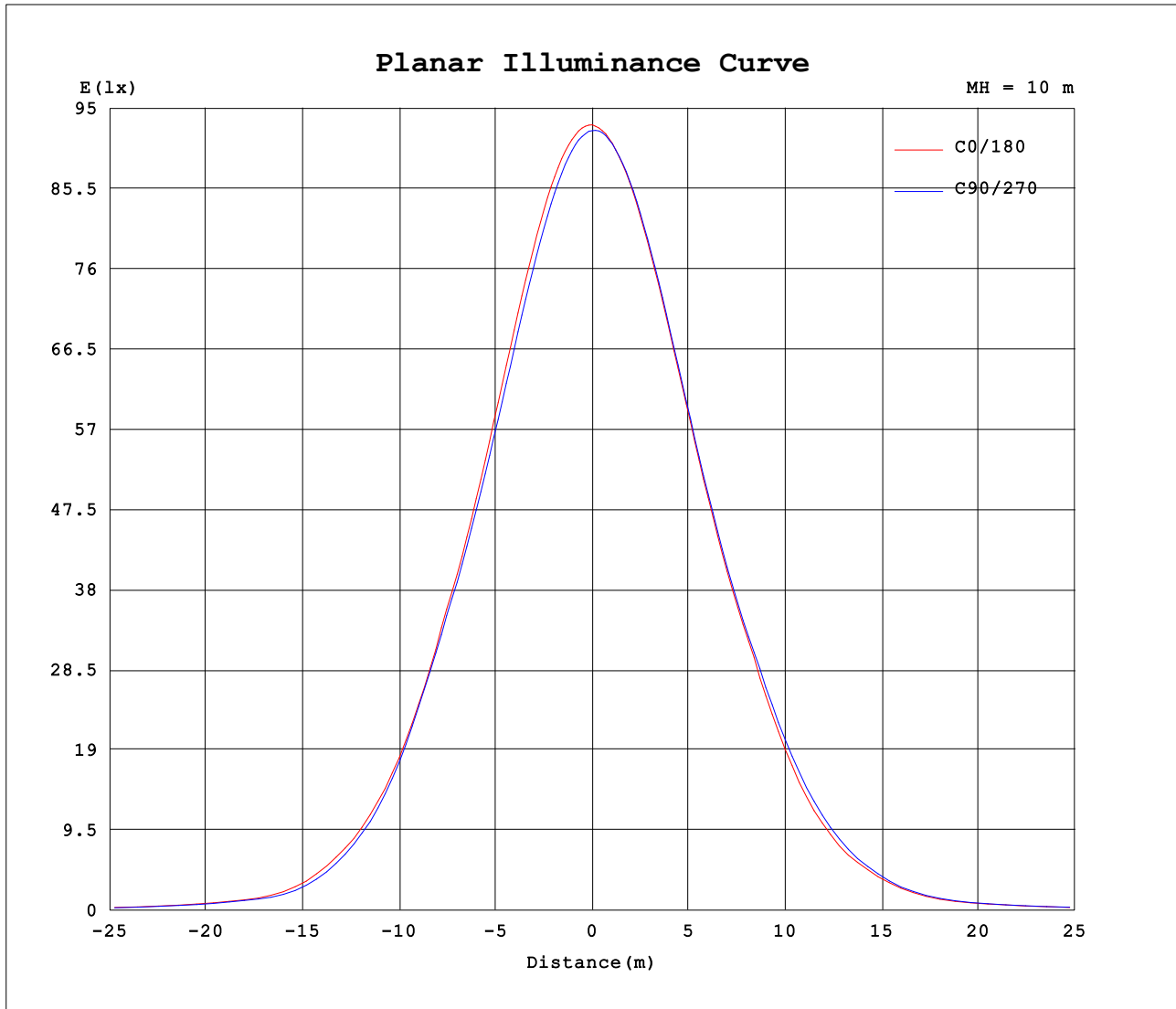
AvgL	cd/m2
L_0~180 (65) av	40247
L_0~180 (75) av	27464
L_0~180 (85) av	19463
L_90~270 (65) av	39846
L_90~270 (75) av	27246
L_90~270 (85) av	19444
L_45 (65) av	40030
L_45 (75) av	27381
L_45 (85) av	19416

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-30

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: 2024-09-30

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:218.34V I:0.6991A P:150.70W PF:0.9873 Freq:49.99Hz Lamp Flux:19789x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:φ0.255m	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	9309	9238	9309	9238														
5	9291	9175	9251	9238														
10	9216	9023	9146	9163														
15	9050	8810	8968	9001														
20	8775	8497	8704	8752														
25	8376	8100	8346	8397														
30	7862	7637	7863	7933														
35	7248	7080	7305	7393														
40	6394	6320	6675	6801														
45	5123	4980	5408	5741														
50	3727	3460	3905	4258														
55	2297	1979	2571	2770														
60	1183	1105	1344	1422														
65	856	802	879	916														
70	575	537	600	631														
75	351	325	374	394														
80	188	172	198	212														
85	89.0	81.5	84.0	91.4														
90	58.5	57.2	36.7	38.0														
95	54.5	53.7	37.2	36.3														
100	52.8	52.7	41.1	40.1														
105	53.5	53.8	45.8	44.7														
110	55.8	56.3	51.1	49.9														
115	59.3	60.0	57.2	55.5														
120	63.9	64.8	64.3	62.5														
125	69.7	70.9	72.0	70.1														
130	76.2	77.7	79.9	78.0														
135	82.8	84.4	87.2	85.3														
140	89.1	90.5	93.8	91.7														
145	95.0	96.3	100	98.0														
150	101	102	107	104														
155	107	108	114	111														
160	113	114	119	118														
165	119	119	124	122														
170	123	124	126	125														
175	126	126	128	126														
180	127	127	128	127														

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-09-30

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: