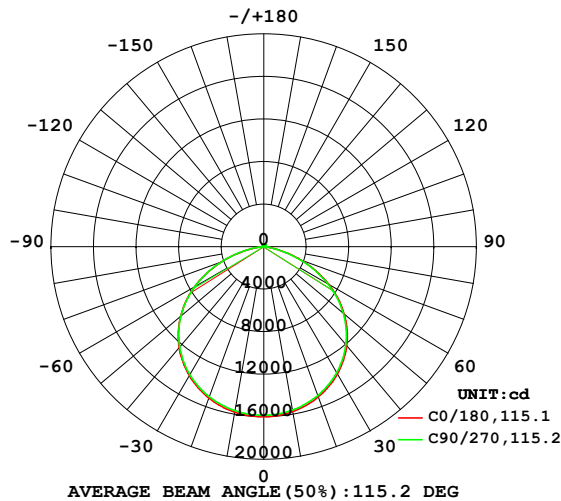


LUMINAIRE PHOTOMETRIC TEST REPORT

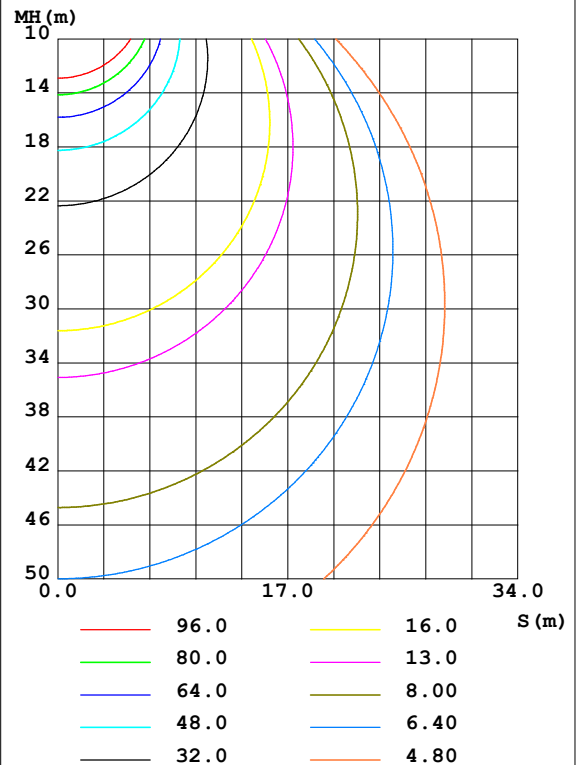
Test:U:218.48V I:1.3824A P:297.17W PF:0.9839 Freq:58.98Hz Lamp Flux:46664.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 157.03 lm/W			
MODEL		I _{max} (cd)	15994	S/MH (C0/180)	1.30
NOMINAL POWER (W)	300	LOR (%)	100.0	S/MH (C90/270)	1.30
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	46664	η UP, DN (C0-180)	1.2, 47.7
NOMINAL FLUX (lm)	46664.2	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 49.9
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	1575	1560	1580	1566					0- 10	1510	1510	3.24, 3.24
20	1503	1489	1514	1502					10- 20	4355	5864	12.6, 12.6
30	1384	1370	1401	1390					20- 30	6687	12551	26.9, 26.9
40	1215	1202	1239	1230					30- 40	8196	20748	44.5, 44.5
50	989.2	977.6	1022	1018					40- 50	8620	29367	62.9, 62.9
60	702.4	693.2	747.8	748.4					50- 60	7756	37123	79.6, 79.6
70	378.6	369.7	427.3	431.1					60- 70	5571	42694	91.5, 91.5
80	78.65	75.68	110.4	116.7					70- 80	2518	45212	96.9, 96.9
90	17.62	17.46	9.938	9.839					80- 90	373.9	45586	97.7, 97.7
100	15.51	15.43	10.73	10.61					90-100	144.7	45731	98, 98
110	15.50	15.46	13.09	12.92					100-110	143.1	45874	98.3, 98.3
120	16.65	16.63	15.74	15.54					110-120	150.4	46024	98.6, 98.6
130	18.31	18.28	18.41	18.17					120-130	154.0	46178	99, 99
140	20.24	20.22	20.81	20.53					130-140	149.9	46328	99.3, 99.3
150	22.22	22.18	22.82	22.51					140-150	134.6	46463	99.6, 99.6
160	23.93	23.88	24.31	23.99					150-160	107.4	46570	99.8, 99.8
170	25.16	25.09	25.34	25.00					160-170	69.66	46640	99.9, 99.9
180	25.59	25.54	25.78	25.40					170-180	24.20	46664	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 25081 lm

%lum = 53.7%

%lamp = 53.7%

Conical surface Flux(120deg): 37123 lm

%lum = 79.6%

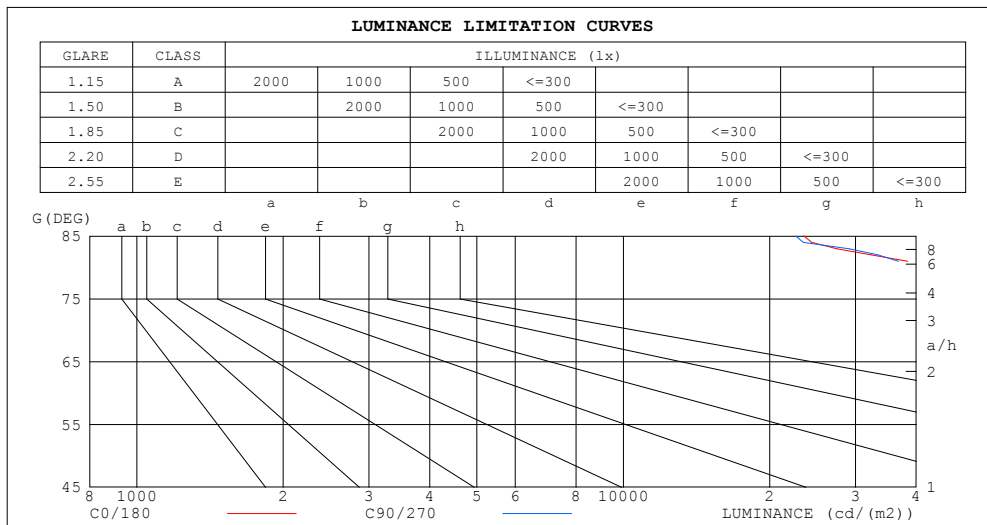
%lamp = 79.6%

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:218.48V I:1.3824A P:297.17W PF:0.9839 Freq:58.98Hz Lamp Flux:46664.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	23515	22625
80	45294	43581
75	80888	79222
70	110701	108085
65	127996	125964
60	140473	138638
55	148895	147027
50	153888	152091
45	156824	155143

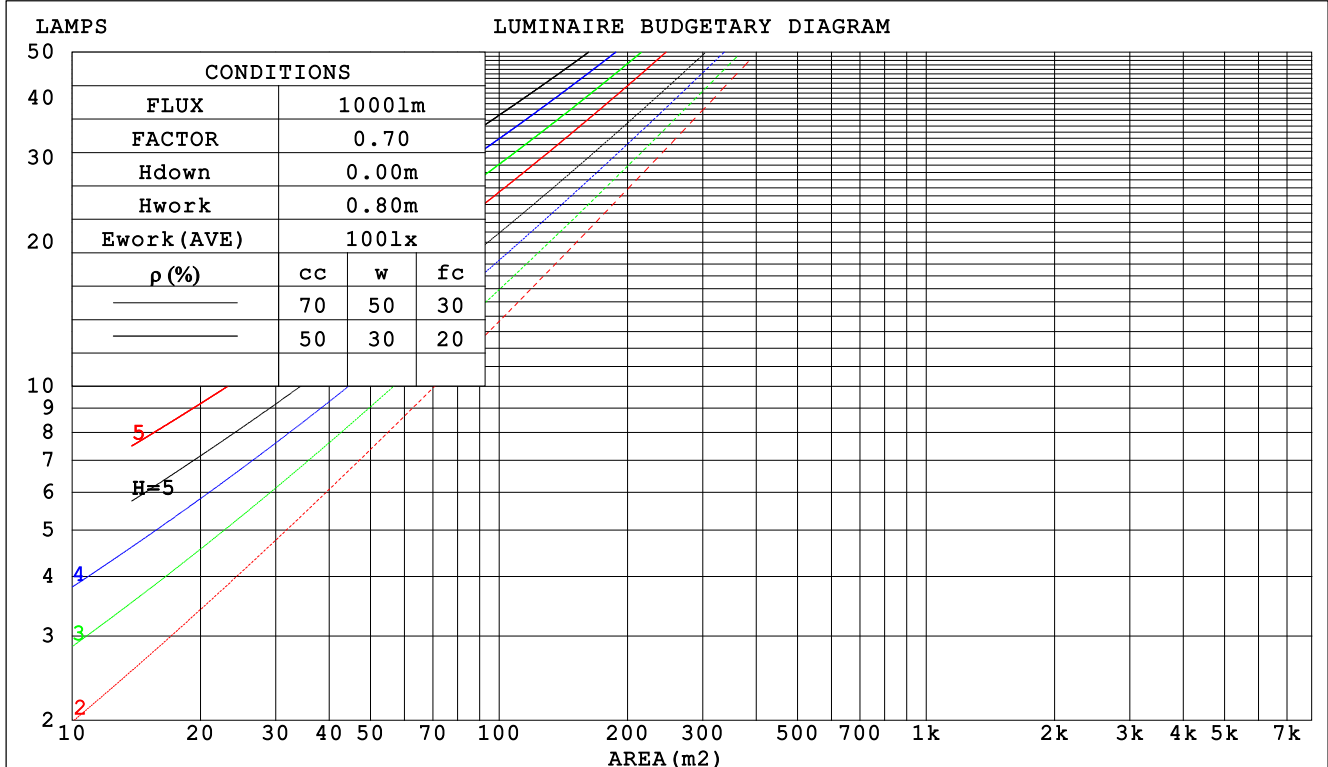
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ 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:218.48V I:1.3824A P:297.17W PF:0.9839 Freq:58.98Hz Lamp Flux:46664.2x1 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	1.18	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	1.04	1.00	.97	1.02	.98	.95	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.91	.85	.79	.89	.83	.78	.85	.80	.76	.82	.77	.74	.78	.75	.72	.69
3.0	.80	.72	.66	.78	.71	.65	.75	.69	.64	.72	.67	.62	.69	.65	.61	.59
4.0	.71	.62	.56	.69	.61	.55	.67	.60	.54	.64	.58	.53	.62	.56	.52	.50
5.0	.63	.54	.48	.62	.54	.47	.60	.52	.47	.57	.51	.46	.55	.50	.45	.43
6.0	.57	.48	.42	.56	.47	.41	.54	.46	.41	.52	.45	.40	.50	.44	.40	.38
7.0	.52	.43	.37	.51	.42	.36	.49	.41	.36	.47	.41	.36	.46	.40	.35	.33
8.0	.47	.38	.33	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.31	.30
9.0	.43	.35	.29	.42	.35	.29	.41	.34	.29	.40	.33	.29	.39	.33	.28	.27
10.0	.40	.32	.27	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



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:218.48V I:1.3824A P:297.17W PF:0.9839 Freq:58.98Hz Lamp Flux:46664.2x1 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	.291	.166	.052	.284	.162	.051	.269	.154	.049	.256	.148	.047	.244	.141	.046	
2.0	.280	.153	.047	.273	.150	.046	.260	.145	.045	.249	.139	.044	.238	.134	.042	
3.0	.262	.139	.042	.256	.137	.041	.245	.133	.040	.234	.128	.039	.224	.124	.038	
4.0	.243	.127	.037	.238	.125	.037	.228	.121	.036	.219	.117	.035	.210	.114	.035	
5.0	.226	.115	.033	.221	.114	.033	.212	.111	.033	.204	.108	.032	.196	.105	.031	
6.0	.210	.106	.030	.206	.104	.030	.198	.102	.030	.190	.099	.029	.183	.097	.029	
7.0	.196	.097	.028	.193	.096	.027	.185	.094	.027	.178	.091	.027	.172	.089	.026	
8.0	.184	.090	.025	.180	.089	.025	.174	.087	.025	.168	.085	.024	.162	.083	.024	
9.0	.172	.083	.023	.169	.083	.023	.163	.081	.023	.158	.079	.023	.152	.077	.022	
10.0	.162	.078	.022	.159	.077	.021	.154	.075	.021	.149	.074	.021	.144	.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	.178	.178	.178	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.197	.174	.154	.168	.149	.132	.115	.103	.091	.066	.059	.053	.021	.019	.017	
2.0	.189	.150	.117	.161	.129	.101	.111	.089	.071	.064	.052	.041	.020	.017	.014	
3.0	.181	.132	.093	.155	.114	.081	.106	.079	.057	.061	.046	.033	.020	.015	.011	
4.0	.173	.119	.077	.149	.103	.067	.102	.072	.047	.059	.042	.028	.019	.014	.009	
5.0	.166	.109	.066	.143	.094	.057	.098	.066	.040	.057	.039	.024	.018	.013	.008	
6.0	.159	.100	.058	.137	.087	.050	.094	.061	.036	.055	.036	.021	.018	.012	.007	
7.0	.153	.093	.052	.131	.081	.045	.091	.057	.032	.053	.033	.019	.017	.011	.006	
8.0	.146	.088	.047	.126	.076	.041	.087	.053	.029	.051	.031	.017	.016	.010	.006	
9.0	.140	.083	.044	.121	.072	.038	.084	.050	.027	.049	.030	.016	.016	.010	.005	
10.0	.135	.078	.041	.116	.068	.036	.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:2024-12-17

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:218.48V I:1.3824A P:297.17W PF:0.9839 Freq:58.98Hz Lamp Flux:46664.2x1 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	16.8	18.2	17.1	18.5	18.7	16.7	18.2	17.0	18.4	18.7
3H	18.0	19.3	18.3	19.6	19.9	17.9	19.3	18.2	19.5	19.8
4H	18.3	19.6	18.6	19.9	20.2	18.2	19.5	18.5	19.8	20.1
6H	18.3	19.5	18.7	19.9	20.2	18.3	19.5	18.6	19.8	20.1
8H	18.3	19.5	18.7	19.8	20.1	18.2	19.4	18.6	19.7	20.1
12H	18.3	19.4	18.7	19.7	20.1	18.2	19.3	18.6	19.6	20.0
4H 2H	17.3	18.6	17.6	18.9	19.2	17.3	18.5	17.6	18.8	19.1
3H	18.6	19.7	19.0	20.1	20.4	18.6	19.7	19.0	20.0	20.4
4H	19.0	20.0	19.4	20.4	20.8	18.9	19.9	19.3	20.3	20.7
6H	19.1	20.0	19.5	20.4	20.8	19.0	19.9	19.5	20.3	20.7
8H	19.1	19.9	19.6	20.3	20.8	19.0	19.9	19.5	20.3	20.7
12H	19.1	19.8	19.5	20.3	20.7	19.0	19.8	19.5	20.2	20.6
8H 4H	19.1	19.9	19.5	20.3	20.8	19.0	19.9	19.5	20.3	20.7
6H	19.2	19.9	19.7	20.4	20.9	19.2	19.9	19.7	20.3	20.8
8H	19.3	19.9	19.8	20.3	20.8	19.2	19.8	19.7	20.3	20.8
12H	19.2	19.8	19.8	20.2	20.8	19.2	19.7	19.7	20.2	20.7
12H 4H	19.0	19.8	19.5	20.2	20.7	19.0	19.8	19.5	20.2	20.6
6H	19.2	19.8	19.7	20.3	20.8	19.2	19.8	19.7	20.2	20.7
8H	19.2	19.8	19.8	20.2	20.8	19.2	19.7	19.7	20.2	20.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4				
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				

CIE Pub.117, 46664 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 13.4)
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:218.48V I:1.3824A P:297.17W PF:0.9839 Freq:58.98Hz Lamp Flux:46664.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

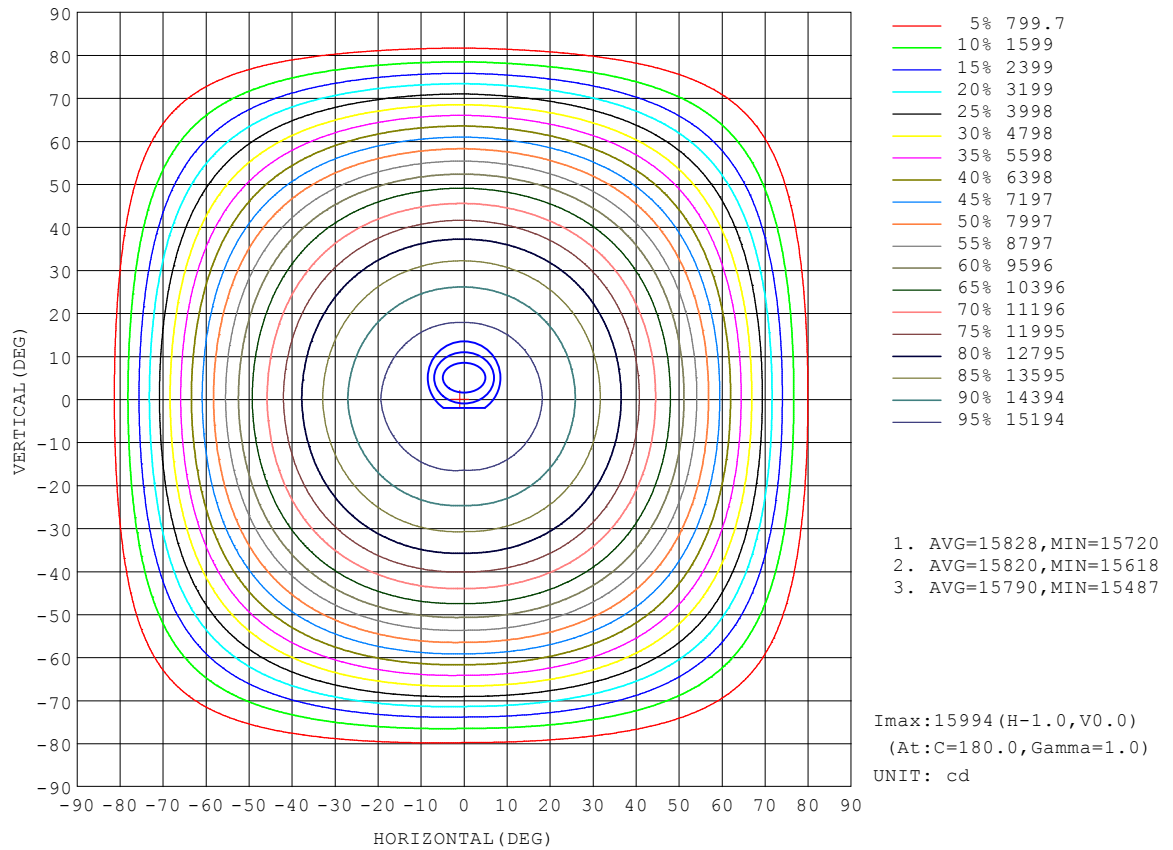
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	46	39	56	45	39	55	45	38	32
0.80	67	56	49	66	55	48	64	54	48	41
1.00	76	65	58	75	64	58	72	66	57	50
1.25	83	73	66	82	72	65	79	70	64	57
1.50	88	79	72	86	78	71	83	76	70	62
2.00	95	87	81	93	86	80	89	83	78	70
2.50	99	92	86	97	90	85	93	87	82	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	99	95	92	82
5.00	109	104	100	106	102	98	101	98	95	85
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:218.48V I:1.3824A P:297.17W PF:0.9839 Freq:58.98Hz Lamp Flux:46664.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

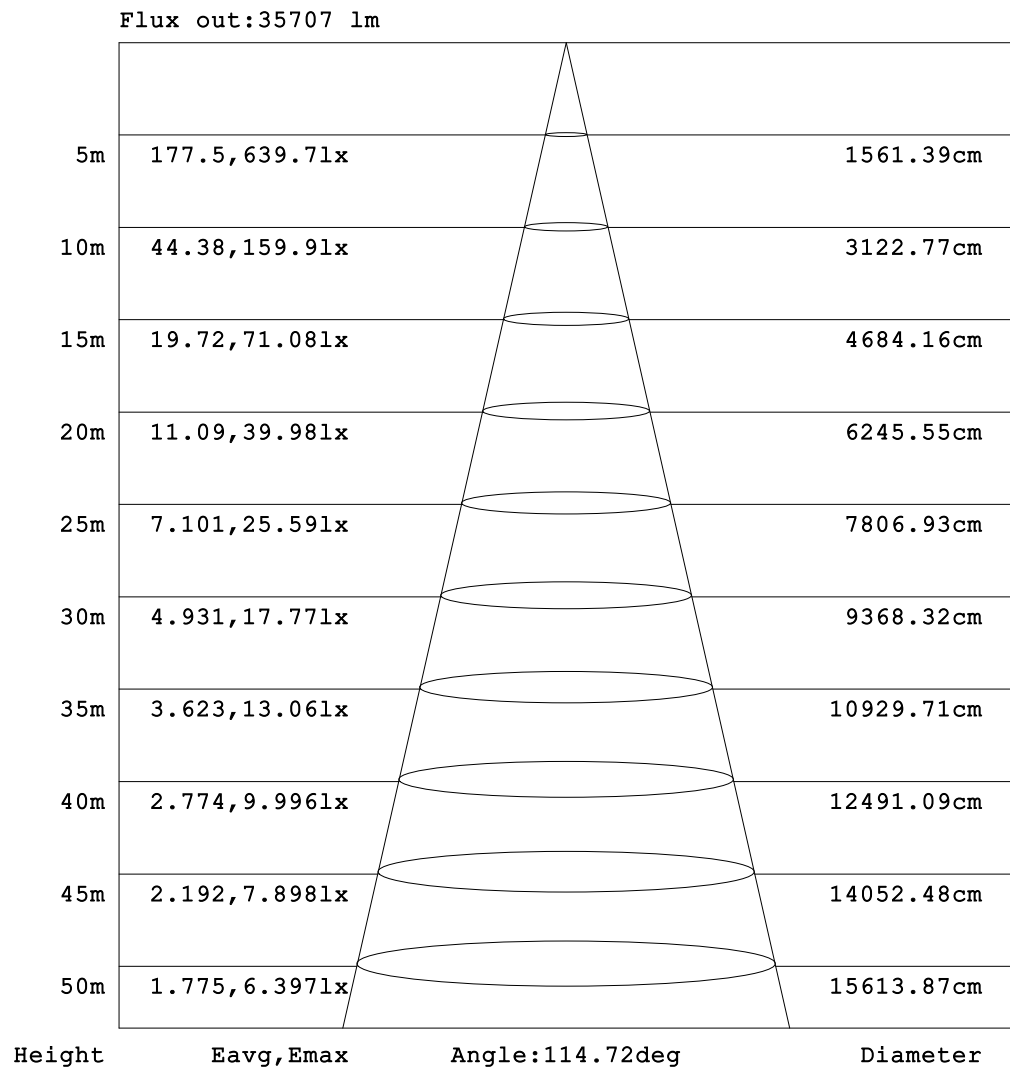


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-17

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:218.48V I:1.3824A P:297.17W PF:0.9839 Freq:58.98Hz Lamp Flux:46664.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



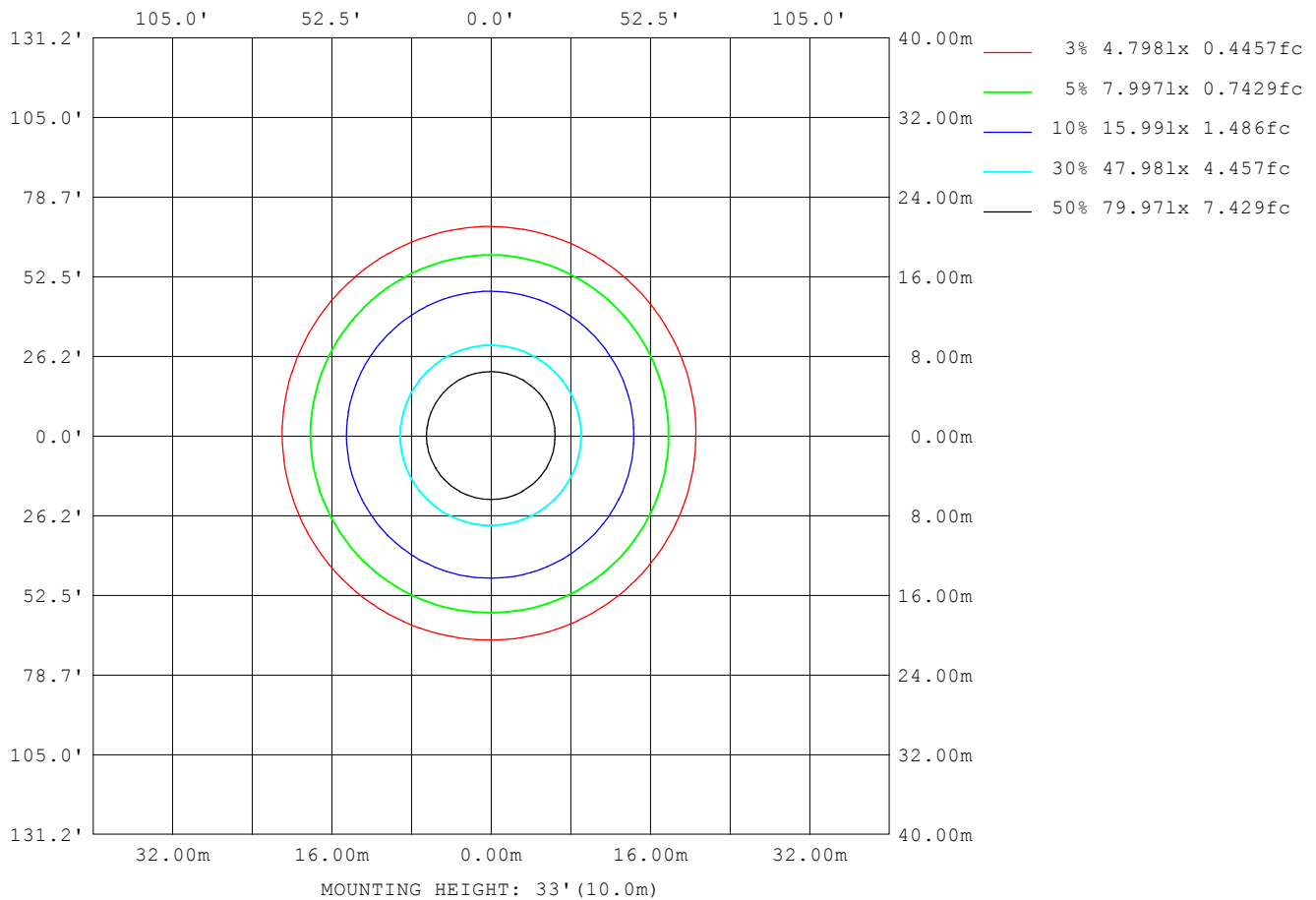
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:218.48V I:1.3824A P:297.17W PF:0.9839 Freq:58.98Hz Lamp Flux:46664.2x1 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: 2024-12-17

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:218.48V I:1.3824A P:297.17W PF:0.9839 Freq:58.98Hz Lamp Flux:46664.2x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

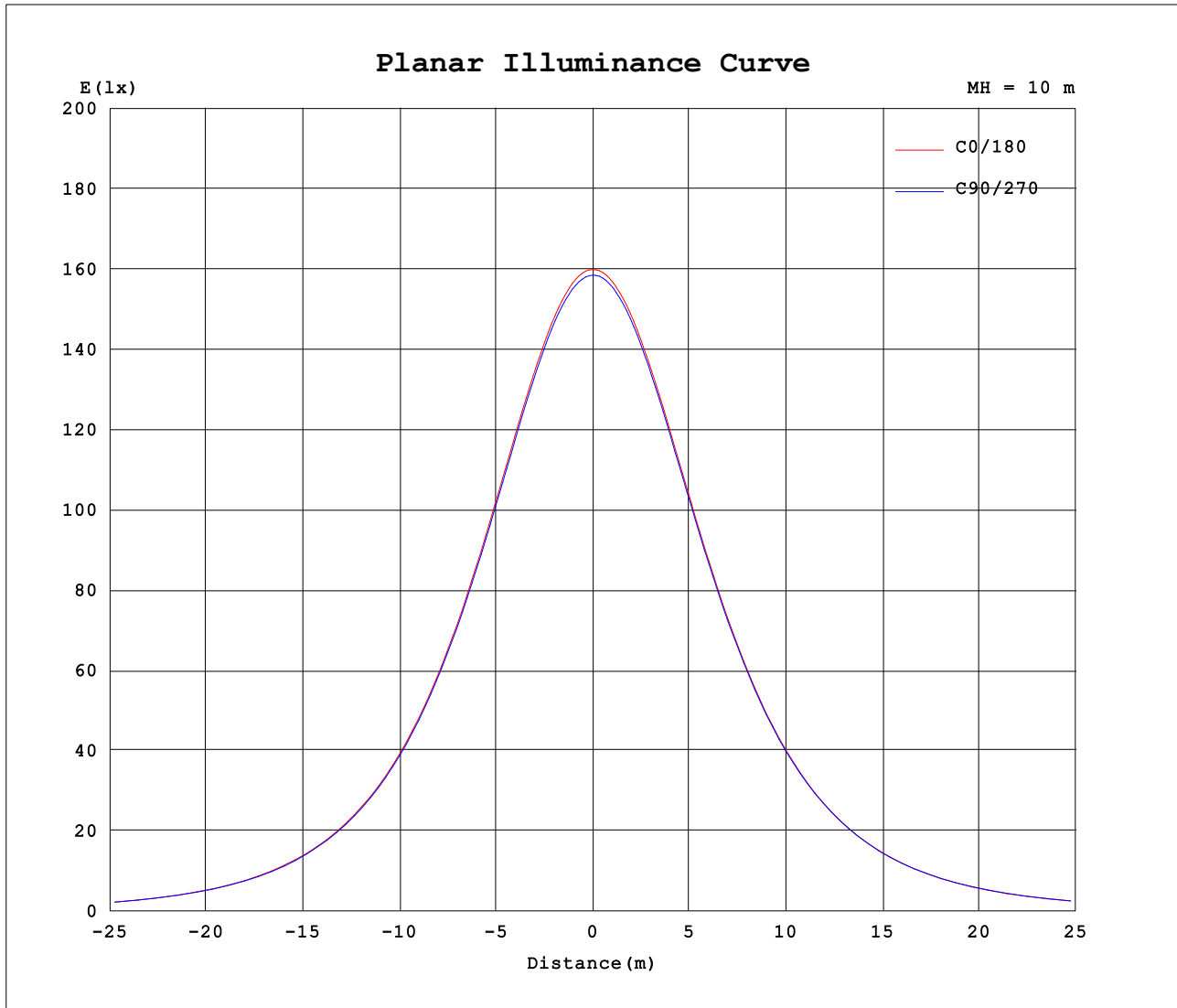
AvgL	cd/m2
L_0~180 (65) av	133737
L_0~180 (75) av	90804
L_0~180 (85) av	25186
L_90~270 (65) av	133092
L_90~270 (75) av	90898
L_90~270 (85) av	26280
L_45 (65) av	133693
L_45 (75) av	91483
L_45 (85) av	25974

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:218.48V I:1.3824A P:297.17W PF:0.9839 Freq:58.98Hz Lamp Flux:46664.2x1 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	1599	1585	1599	1585															
5	1593	1579	1595	1581															
10	1575	1560	1580	1566															
15	1545	1530	1553	1540															
20	1503	1489	1514	1502															
25	1450	1436	1464	1452															
30	1384	1370	1401	1390															
35	1306	1293	1326	1317															
40	1215	1202	1239	1230															
45	1109	1097	1138	1131															
50	989	978	1022	1018															
55	854	843	892	890															
60	702	693	748	748															
65	541	532	589	593															
70	379	370	427	431															
75	209	205	261	265															
80	78.7	75.7	110	117															
85	20.5	19.7	23.4	26.1															
90	17.6	17.5	9.94	9.84															
95	16.4	16.3	10.1	10.0															
100	15.5	15.4	10.7	10.6															
105	15.3	15.2	11.8	11.6															
110	15.5	15.5	13.1	12.9															
115	16.0	16.0	14.4	14.2															
120	16.7	16.6	15.7	15.5															
125	17.4	17.4	17.0	16.8															
130	18.3	18.3	18.4	18.2															
135	19.3	19.2	19.7	19.4															
140	20.2	20.2	20.8	20.5															
145	21.3	21.2	21.9	21.6															
150	22.2	22.2	22.8	22.5															
155	23.1	23.1	23.6	23.3															
160	23.9	23.9	24.3	24.0															
165	24.6	24.6	24.9	24.6															
170	25.2	25.1	25.3	25.0															
175	25.5	25.4	25.6	25.3															
180	25.6	25.5	25.8	25.4															

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: