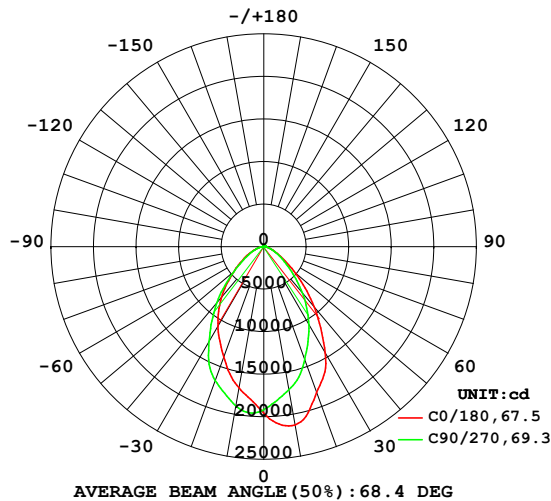


LUMINAIRE PHOTOMETRIC TEST REPORT

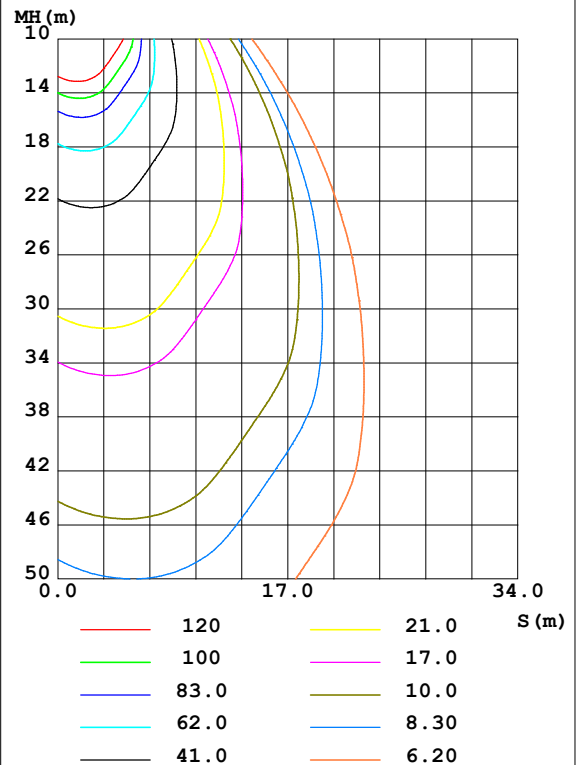
Test:U:218.62V I:0.9618A P:200.19W PF:0.9520 Freq:58.98Hz Lamp Flux:30355.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.64 lm/W			
MODEL		I _{max} (cd)	21293	S/MH (C0/180)	0.87
NOMINAL POWER (W)	200	LOR (%)	100.0	S/MH (C90/270)	1.06
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	30356	η UP, DN (C0-180)	1.2, 49.1
NOMINAL FLUX (lm)	30355.9	CIE CLASS	DIRECT	η UP, DN (C180-360)	1.1, 48.6
LAMPS INSIDE	1	η up (%)	2.3	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	97.7	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: 2024-12-14

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	2126	1709	1686	1901					0- 10	1811	1811	5.97, 5.97
20	1824	1410	1378	1673					10- 20	4851	6662	21.9, 21.9
30	1446	1061	1081	1286					20- 30	6461	13123	43.2, 43.2
40	920.8	704.6	775.4	856.9					30- 40	6313	19437	64, 64
50	489.5	390.0	465.3	462.9					40- 50	4798	24235	79.8, 79.8
60	226.0	204.1	253.4	229.0					50- 60	2919	27154	89.5, 89.5
70	100.9	95.11	113.3	110.2					60- 70	1601	28755	94.7, 94.7
80	33.98	29.49	41.28	42.60					70- 80	727.6	29482	97.1, 97.1
90	9.389	8.757	5.822	5.601					80- 90	173.2	29656	97.7, 97.7
100	8.110	7.810	6.705	6.397					90-100	79.09	29735	98, 98
110	8.178	8.226	8.209	7.649					100-110	80.20	29815	98.2, 98.2
120	9.285	9.713	10.25	9.373					110-120	87.29	29902	98.5, 98.5
130	11.10	12.01	12.75	11.51					120-130	95.87	29998	98.8, 98.8
140	13.48	14.68	15.28	13.87					130-140	101.0	30099	99.2, 99.2
150	16.16	17.21	17.63	16.23					140-150	97.54	30196	99.5, 99.5
160	18.85	19.27	19.71	18.42					150-160	82.83	30279	99.7, 99.7
170	20.92	20.74	21.29	20.13					160-170	56.37	30336	99.9, 99.9
180	21.83	21.19	22.04	21.04					170-180	20.17	30356	100, 100
DEG	LUMINOUS INTENSITY: $\times 10\text{cd}$									UNIT: lm		

Conical surface Flux(90deg): 22084 lm

%lum = 72.8%

%lamp = 72.8%

Conical surface Flux(120deg): 27154 lm

%lum = 89.5%

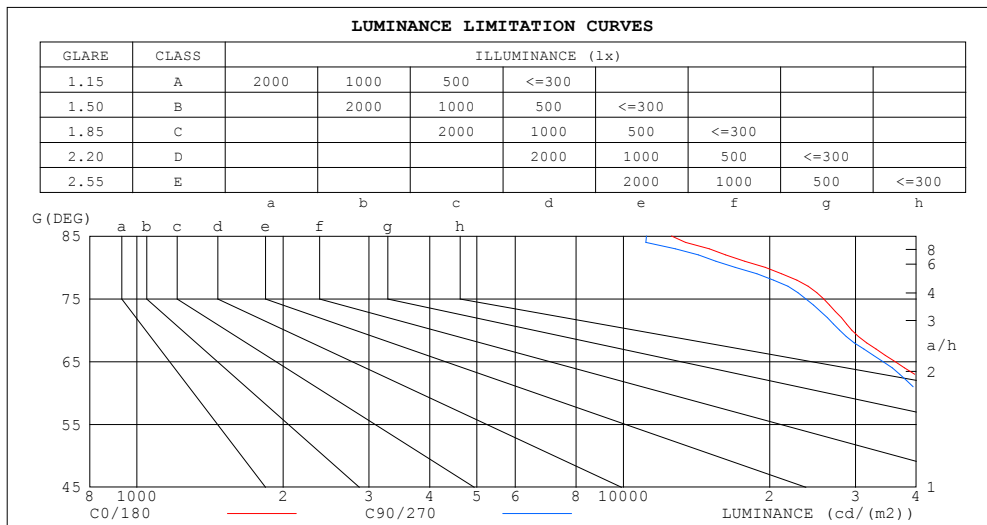
%lamp = 89.5%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-14

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:218.62V I:0.9618A P:200.19W PF:0.9520 Freq:58.98Hz Lamp Flux:30355.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	12560	11164
80	19571	16981
75	25782	23687
70	29497	27809
65	36178	34166
60	45194	40824
55	58320	49093
50	76156	60674
45	97176	75290

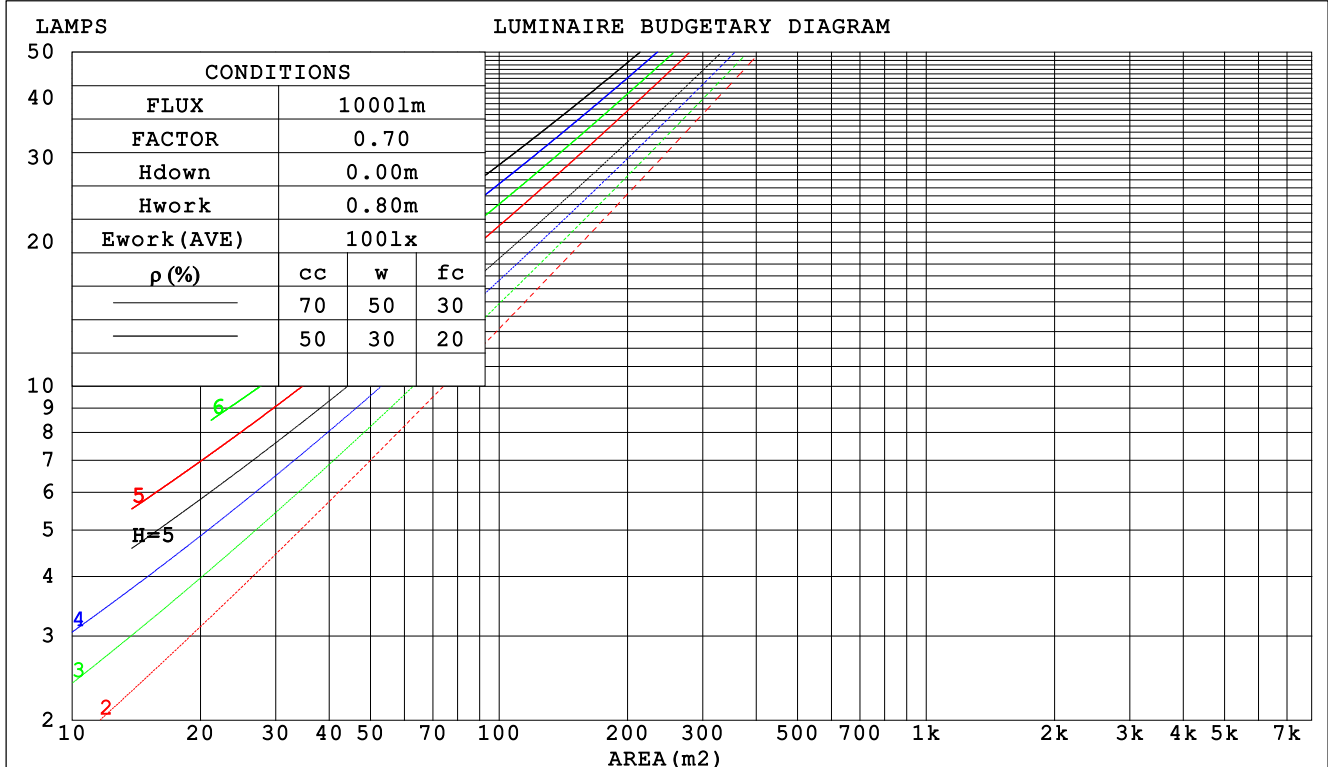
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.62V I:0.9618A P:200.19W PF:0.9520 Freq:58.98Hz Lamp Flux:30355.9x1 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	1.07	1.04	1.01	1.05	1.02	.99	1.00	.98	.95	.96	.94	.92	.92	.90	.89	.87
2.0	.96	.91	.86	.94	.89	.85	.91	.86	.83	.87	.84	.81	.84	.81	.79	.77
3.0	.87	.80	.75	.85	.79	.74	.82	.77	.73	.79	.75	.71	.77	.73	.70	.68
4.0	.79	.72	.66	.78	.71	.66	.75	.69	.65	.73	.68	.64	.70	.66	.63	.61
5.0	.72	.65	.59	.71	.64	.59	.69	.63	.58	.67	.61	.57	.65	.60	.56	.54
6.0	.66	.58	.53	.65	.58	.53	.63	.57	.52	.61	.56	.52	.60	.55	.51	.49
7.0	.61	.53	.48	.60	.53	.48	.58	.52	.47	.57	.51	.47	.55	.50	.46	.45
8.0	.56	.49	.44	.56	.48	.44	.54	.48	.43	.53	.47	.43	.52	.46	.43	.41
9.0	.52	.45	.40	.52	.45	.40	.50	.44	.40	.49	.44	.39	.48	.43	.39	.37
10.0	.49	.42	.37	.48	.41	.37	.47	.41	.37	.46	.40	.36	.45	.40	.36	.35



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.62V I:0.9618A P:200.19W PF:0.9520 Freq:58.98Hz Lamp Flux:30355.9x1 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	.239	.136	.043	.232	.132	.042	.217	.125	.040	.204	.118	.038	.192	.111	.036	
2.0	.230	.126	.039	.223	.123	.038	.211	.117	.036	.199	.112	.035	.189	.107	.034	
3.0	.217	.116	.035	.211	.113	.034	.201	.109	.033	.191	.104	.032	.181	.100	.031	
4.0	.204	.106	.031	.199	.104	.031	.190	.101	.030	.181	.097	.029	.172	.094	.029	
5.0	.192	.098	.028	.188	.096	.028	.179	.093	.027	.171	.090	.027	.164	.087	.026	
6.0	.181	.091	.026	.177	.089	.026	.169	.087	.025	.162	.084	.025	.155	.082	.024	
7.0	.171	.084	.024	.167	.083	.024	.160	.081	.023	.154	.079	.023	.148	.077	.023	
8.0	.161	.079	.022	.158	.078	.022	.152	.076	.022	.146	.074	.021	.140	.072	.021	
9.0	.153	.074	.021	.150	.073	.020	.144	.071	.020	.139	.070	.020	.134	.068	.020	
10.0	.145	.069	.019	.142	.069	.019	.137	.067	.019	.132	.066	.019	.128	.064	.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	.208	.208	.208	.178	.178	.178	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.193	.174	.158	.165	.150	.136	.113	.103	.094	.065	.060	.055	.021	.019	.018	
2.0	.182	.150	.123	.156	.129	.107	.107	.089	.074	.062	.052	.044	.020	.017	.014	
3.0	.172	.132	.100	.148	.114	.086	.101	.079	.061	.059	.046	.036	.019	.015	.012	
4.0	.164	.118	.083	.141	.102	.072	.097	.071	.051	.056	.042	.030	.018	.014	.010	
5.0	.156	.107	.071	.134	.093	.062	.092	.065	.044	.054	.038	.026	.017	.012	.009	
6.0	.149	.098	.062	.128	.085	.054	.089	.060	.038	.051	.035	.023	.017	.011	.007	
7.0	.143	.091	.055	.123	.079	.048	.085	.056	.034	.049	.033	.020	.016	.011	.007	
8.0	.137	.085	.050	.118	.074	.044	.082	.052	.031	.047	.031	.018	.015	.010	.006	
9.0	.132	.080	.046	.113	.070	.040	.079	.049	.028	.046	.029	.017	.015	.010	.006	
10.0	.127	.076	.043	.109	.066	.037	.076	.047	.026	.044	.028	.016	.014	.009	.005	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Jason
 Test Date: 2024-12-14

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:218.62V I:0.9618A P:200.19W PF:0.9520 Freq:58.98Hz Lamp Flux:30355.9x1 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	14.1	15.3	14.3	15.5	15.8	13.3	14.5	13.6	14.8	15.0
3H	14.5	15.6	14.8	15.9	16.1	13.8	14.9	14.1	15.2	15.4
4H	14.6	15.7	15.0	16.0	16.3	14.0	15.0	14.3	15.3	15.6
6H	14.7	15.7	15.1	16.0	16.3	14.0	15.0	14.4	15.3	15.6
8H	14.7	15.7	15.1	16.0	16.3	14.0	15.0	14.4	15.3	15.6
12H	14.7	15.6	15.0	15.9	16.3	14.0	14.9	14.4	15.2	15.6
4H 2H	14.2	15.2	14.5	15.5	15.8	13.5	14.6	13.8	14.9	15.1
3H	14.7	15.6	15.1	16.0	16.3	14.1	15.1	14.5	15.4	15.7
4H	15.0	15.8	15.4	16.2	16.5	14.4	15.2	14.8	15.6	16.0
6H	15.1	15.9	15.5	16.2	16.6	14.6	15.3	15.0	15.7	16.1
8H	15.1	15.8	15.6	16.2	16.6	14.6	15.3	15.0	15.7	16.1
12H	15.1	15.7	15.6	16.2	16.6	14.5	15.2	15.0	15.6	16.0
8H 4H	15.0	15.7	15.4	16.1	16.5	14.5	15.1	14.9	15.5	16.0
6H	15.2	15.8	15.7	16.2	16.7	14.7	15.2	15.1	15.7	16.1
8H	15.2	15.7	15.7	16.2	16.7	14.7	15.2	15.2	15.7	16.2
12H	15.3	15.7	15.8	16.2	16.7	14.7	15.1	15.2	15.6	16.1
12H 4H	15.0	15.6	15.4	16.0	16.4	14.4	15.1	14.9	15.5	15.9
6H	15.2	15.7	15.7	16.1	16.6	14.7	15.2	15.2	15.6	16.1
8H	15.2	15.7	15.7	16.1	16.7	14.7	15.1	15.2	15.6	16.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 1.0					+ 0.8 / - 1.0				
1.5H	+ 0.8 / - 0.7					+ 0.6 / - 0.7				
2.0H	+ 1.9 / - 1.4					+ 1.4 / - 1.1				

CIE Pub.117, 30356 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.9)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.62V I:0.9618A P:200.19W PF:0.9520 Freq:58.98Hz Lamp Flux:30355.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

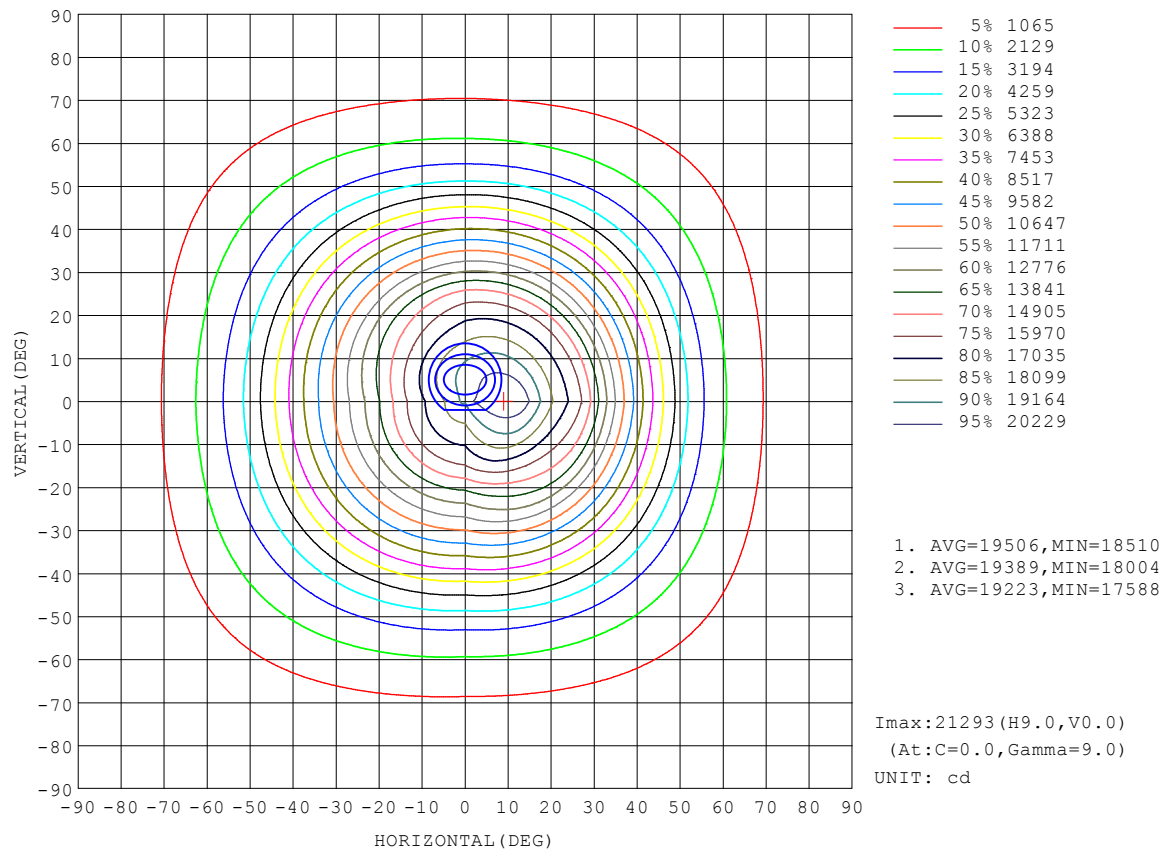
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	54	68	59	54	67	59	53	48
0.80	78	69	63	77	69	63	76	68	63	57
1.00	86	77	71	85	76	71	82	77	70	65
1.25	92	84	78	90	83	78	88	81	77	71
1.50	96	88	83	94	87	82	91	86	81	75
2.00	101	95	90	99	93	89	96	91	87	80
2.50	104	98	93	102	96	92	98	94	90	82
3.00	106	101	97	104	99	96	100	96	93	85
4.00	109	105	101	107	103	100	103	99	97	88
5.00	111	107	104	109	105	103	104	101	99	90
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: 2024-12-14

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:218.62V I:0.9618A P:200.19W PF:0.9520 Freq:58.98Hz Lamp Flux:30355.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

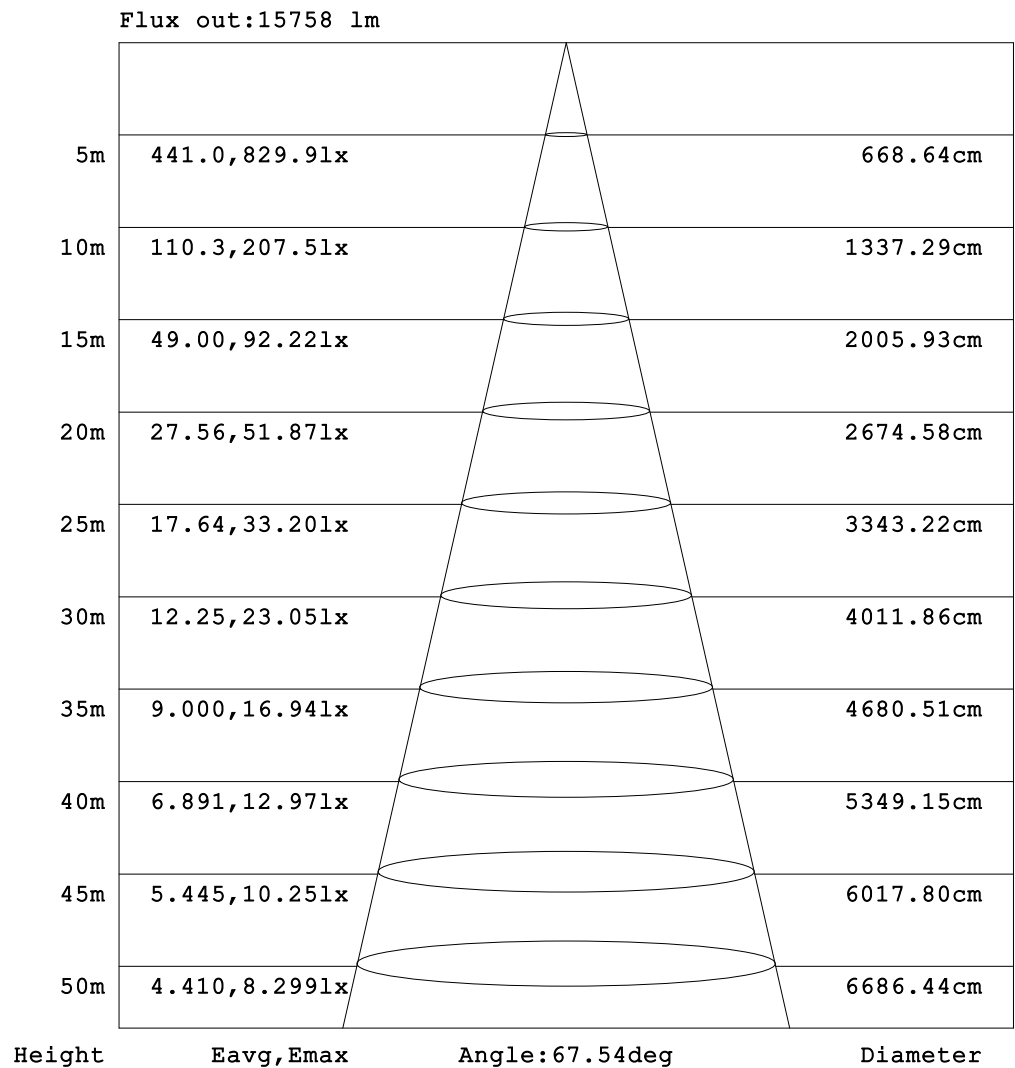


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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:218.62V I:0.9618A P:200.19W PF:0.9520 Freq:58.98Hz Lamp Flux:30355.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



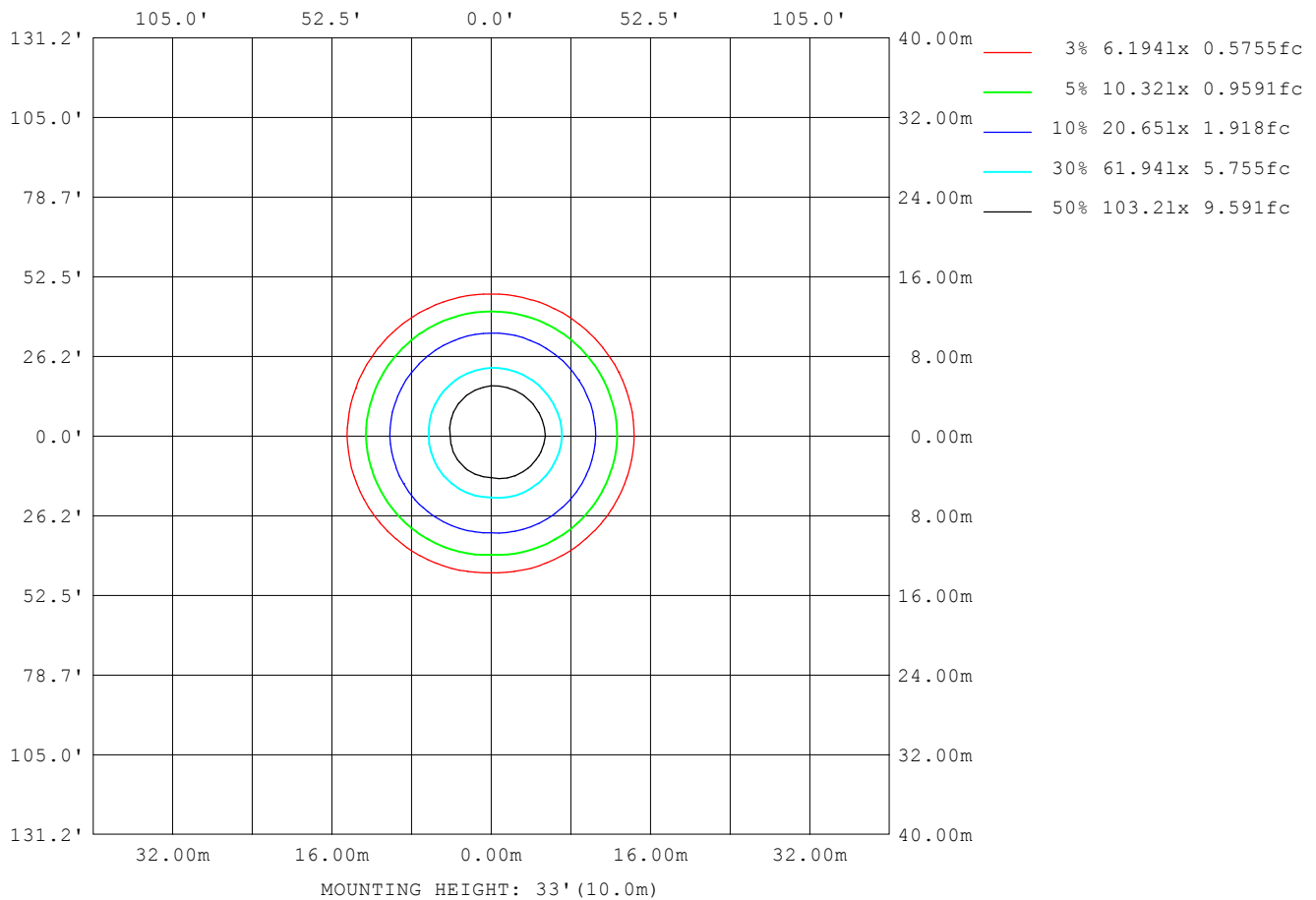
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Jason
Test Date: 2024-12-14

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:218.62V I:0.9618A P:200.19W PF:0.9520 Freq:58.98Hz Lamp Flux:30355.9x1 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:2024-12-14

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:218.62V I:0.9618A P:200.19W PF:0.9520 Freq:58.98Hz Lamp Flux:30355.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

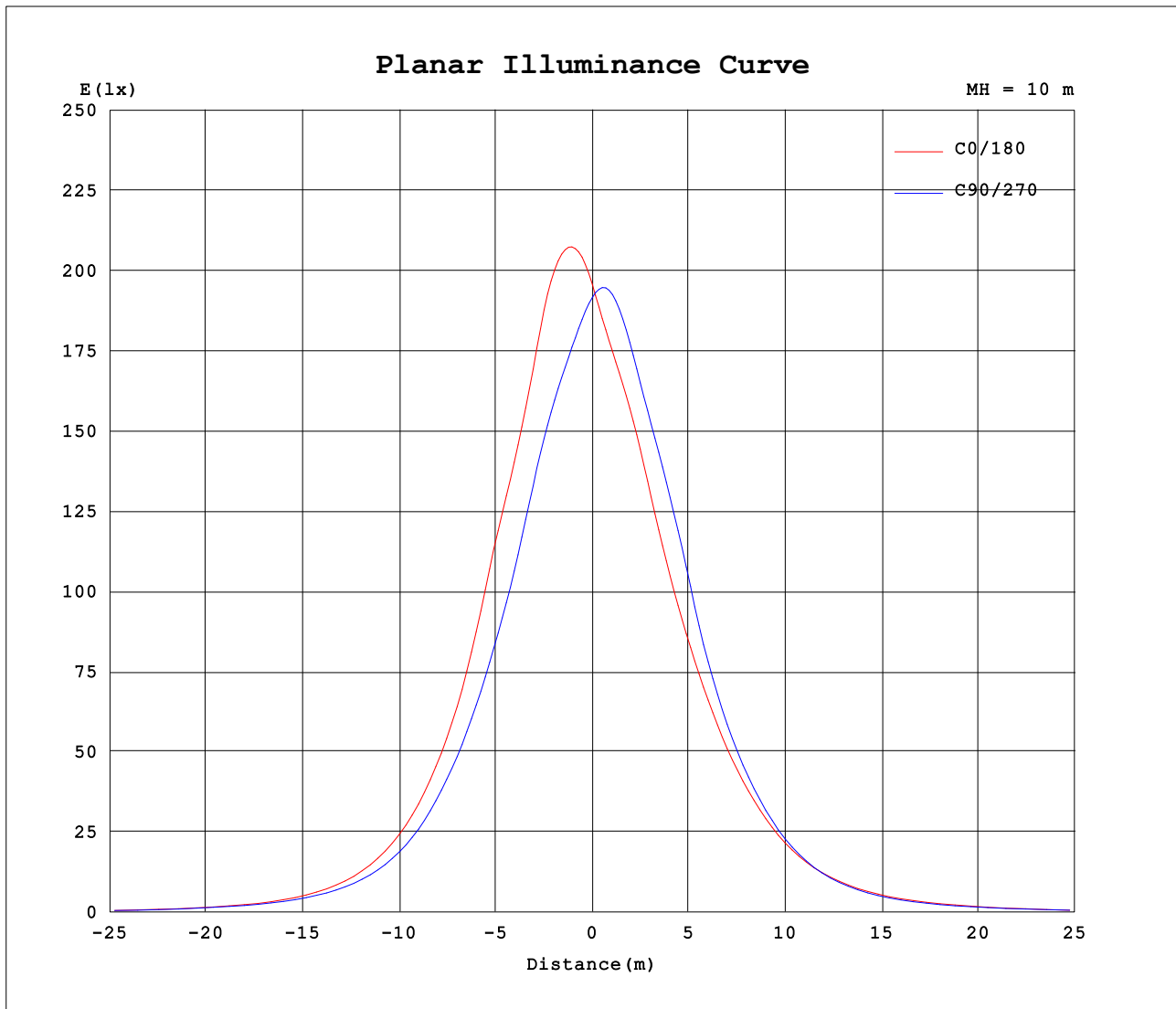
AvgL	cd/m2
L_0~180 (65) av	39231
L_0~180 (75) av	26641
L_0~180 (85) av	13960
L_90~270 (65) av	36534
L_90~270 (75) av	26068
L_90~270 (85) av	13936
L_45 (65) av	37737
L_45 (75) av	26337
L_45 (85) av	14033

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Jason
Test Date:2024-12-14

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: 2024-12-14

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:218.62V I:0.9618A P:200.19W PF:0.9520 Freq:58.98Hz Lamp Flux:30355.9x1 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	1958	1917	1958	1917															
5	2093	1812	1803	1962															
10	2126	1709	1686	1901															
15	2019	1591	1548	1784															
20	1824	1410	1378	1673															
25	1672	1233	1226	1526															
30	1446	1061	1081	1286															
35	1168	883	928	1066															
40	921	705	775	857															
45	687	532	612	648															
50	490	390	465	463															
55	335	282	345	323															
60	226	204	253	229															
65	153	144	179	164															
70	101	95.1	113	110															
75	66.7	61.3	71.2	73.6															
80	34.0	29.5	41.3	42.6															
85	10.9	9.73	13.4	14.6															
90	9.39	8.76	5.82	5.60															
95	8.60	8.13	6.18	5.94															
100	8.11	7.81	6.70	6.40															
105	7.99	7.87	7.37	6.95															
110	8.18	8.23	8.21	7.65															
115	8.62	8.85	9.17	8.46															
120	9.28	9.71	10.3	9.37															
125	10.1	10.8	11.5	10.4															
130	11.1	12.0	12.8	11.5															
135	12.2	13.3	14.0	12.7															
140	13.5	14.7	15.3	13.9															
145	14.8	16.0	16.5	15.1															
150	16.2	17.2	17.6	16.2															
155	17.5	18.3	18.7	17.4															
160	18.8	19.3	19.7	18.4															
165	20.0	20.1	20.6	19.3															
170	20.9	20.7	21.3	20.1															
175	21.6	21.1	21.8	20.7															
180	21.8	21.2	22.0	21.0															

C Range: 0 - 360DEG
C Interval: 90.0DEG
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Operators:Jason
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
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