

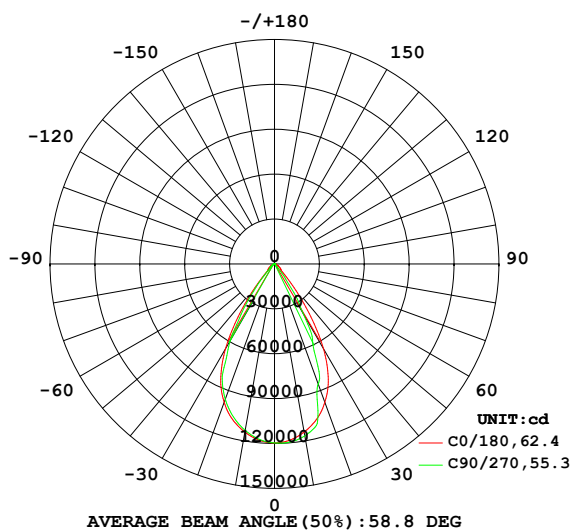
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

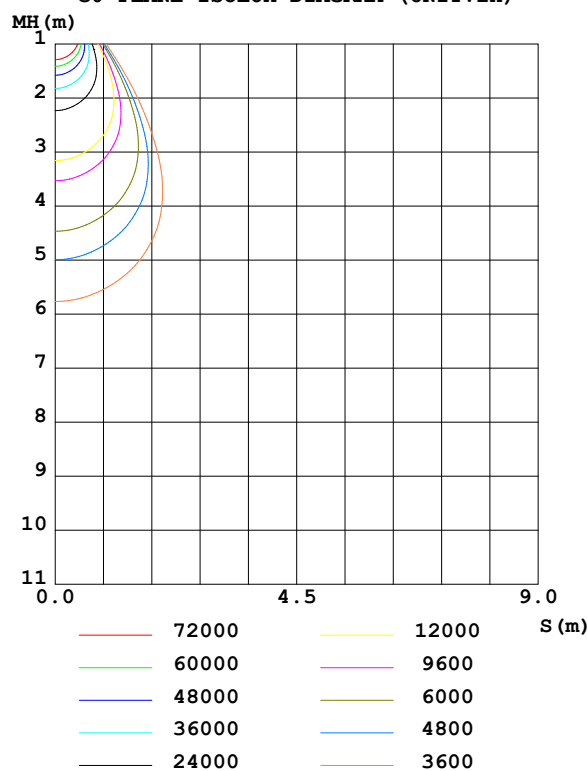
Test:U:230.0V I:3.571A P:800.0W PF:0.974 Freq:50.00Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:106226x1 lm		
NAME: SP04-800-5770-F04006Z+L130	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.78 lm/W			
MODEL	/	I _{max} (cd)	119814	S/MH (C0/180)	0.92
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	0.88
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	106226	η UP,DN (C0-180)	0.0,46.5
NOMINAL FLUX (lm)	106226	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,53.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	/	η down (%)	100.0	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: LYJ
Test Date: 2022-12-14

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.465
Humidity: 65.0%
Test Distance: 26.000m [K=0.4548]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1141	1158	1166	1158	1141	1132	1129	1132	0- 10	11176	11176	10.5,10.5
20	983.7	993.4	854.0	993.4	983.7	965.4	961.8	965.4	10- 20	30009	41185	38.8,38.8
30	656.3	527.0	384.3	527.0	656.3	647.7	591.9	647.7	20- 30	35969	77155	72.6,72.6
40	189.3	106.9	39.98	106.9	189.3	178.8	152.5	178.8	30- 40	21141	98296	92.5,92.5
50	54.87	10.05	1.838	10.05	54.87	40.98	37.33	40.98	40- 50	4626	102922	96.9,96.9
60	26.81	0.9131	0.8296	0.9131	26.81	22.15	17.88	22.15	50- 60	1869	104791	98.6,98.6
70	10.82	0.4659	0.3735	0.4659	10.82	11.13	8.169	11.13	60- 70	991.5	105783	99.6,99.6
80	1.870	0.1675	0.1147	0.1675	1.870	2.676	2.258	2.676	70- 80	378.1	106161	99.9,99.9
90	0	0	0	0	0	0	0	0	80- 90	65.03	106226	100,100
100	0	0	0	0	0	0	0	0	90-100	0	106226	100,100
110	0	0	0	0	0	0	0	0	100-110	0	106226	100,100
120	0	0	0	0	0	0	0	0	110-120	0	106226	100,100
130	0	0	0	0	0	0	0	0	120-130	0	106226	100,100
140	0	0	0	0	0	0	0	0	130-140	0	106226	100,100
150	0	0	0	0	0	0	0	0	140-150	0	106226	100,100
160	0	0	0	0	0	0	0	0	150-160	0	106226	100,100
170	0	0	0	0	0	0	0	0	160-170	0	106226	100,100
180	0	0	0	0	0	0	0	0	170-180	0	106226	100,100
DEG	LUMINOUS INTENSITY:X100cd									UNIT:lm		

Conical surface Flux(90deg): 1.0148e+005 lm

%lum = 95.5%

%lamp = 95.5%

Conical surface Flux(120deg): 1.0479e+005 lm

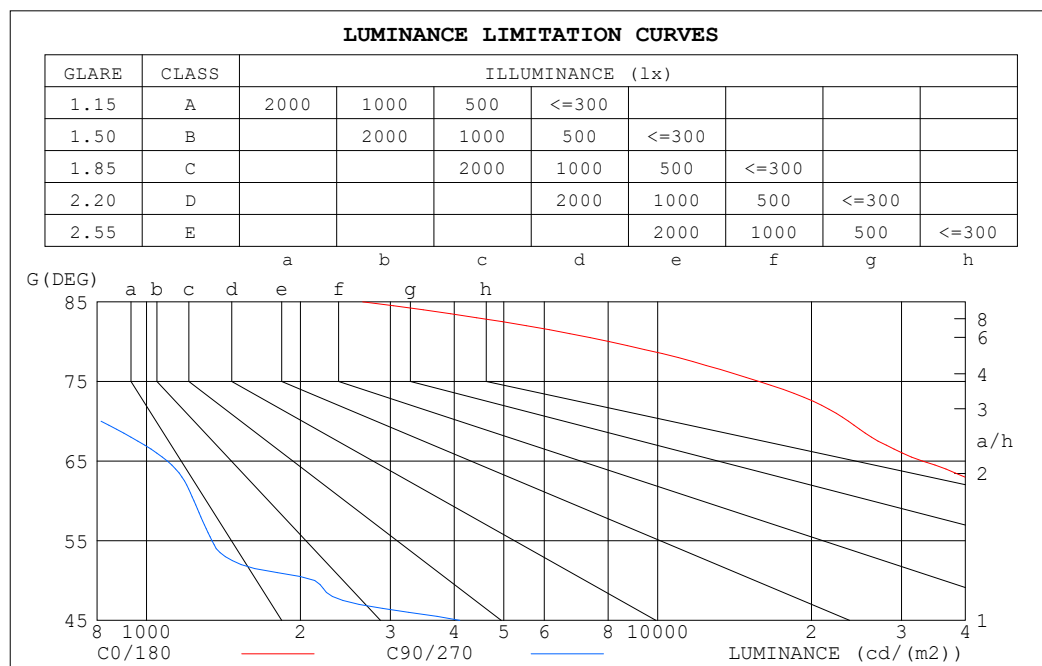
%lum = 98.6%

%lamp = 98.6%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:LYJ
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γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
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Humidity:65.0%
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Remarks:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2647	444
80	8041	493
75	15789	596
70	23627	815
65	32985	1099
60	40035	1238
55	55170	1343
50	63738	2134
45	74309	4100

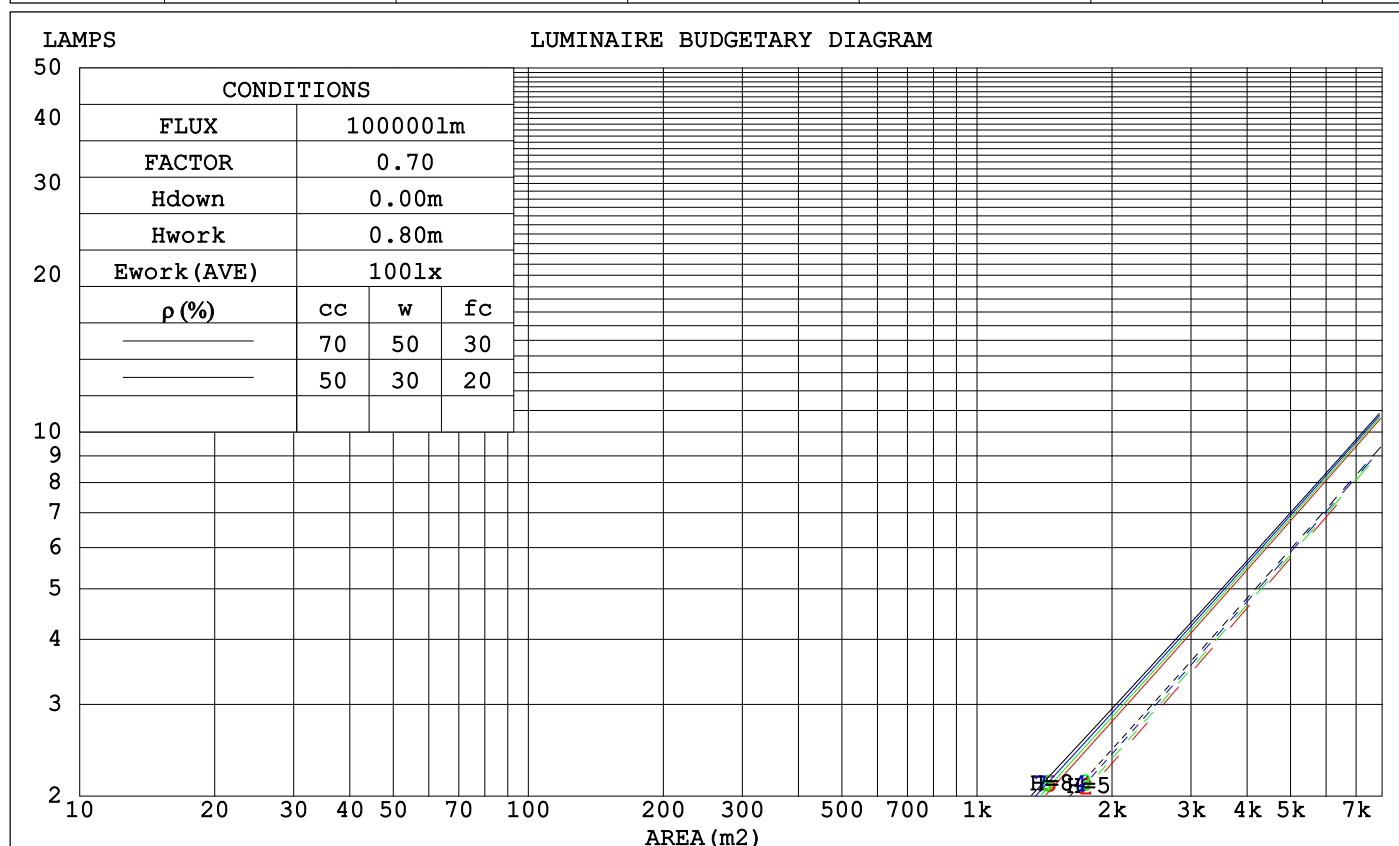
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Temperature: 25.3°C
Operators: LYJ
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Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.465
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Test Distance: 26.000m [K=0.4548]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.95	1.01	.97	.94	.98	.95	.92	.95	.92	.90	.92	.90	.88	.87
3.0	.96	.91	.87	.94	.90	.86	.92	.88	.85	.89	.86	.83	.87	.85	.82	.81
4.0	.90	.84	.80	.88	.83	.79	.86	.82	.78	.84	.81	.77	.82	.79	.77	.75
5.0	.84	.78	.74	.83	.78	.73	.81	.76	.73	.80	.75	.72	.78	.74	.72	.70
6.0	.79	.73	.69	.78	.72	.68	.76	.72	.68	.75	.71	.67	.74	.70	.67	.65
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8.0	.70	.64	.60	.69	.64	.60	.68	.63	.59	.67	.63	.59	.66	.62	.59	.58
9.0	.66	.60	.56	.66	.60	.56	.65	.59	.56	.64	.59	.56	.63	.59	.55	.54
10.0	.62	.57	.53	.62	.57	.53	.61	.56	.53	.60	.56	.52	.60	.55	.52	.51



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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.465
Humidity:65.0%
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WEC AND CCEC

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						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.180	.102	.032	.173	.099	.031	.161	.092	.029	.149	.086	.028	.139	.080	.026		
2.0	.172	.095	.029	.167	.092	.028	.156	.087	.027	.146	.082	.026	.137	.078	.024		
3.0	.164	.087	.026	.159	.085	.026	.150	.081	.025	.142	.078	.024	.134	.074	.023		
4.0	.156	.081	.024	.152	.080	.024	.144	.076	.023	.137	.073	.022	.130	.071	.022		
5.0	.149	.076	.022	.145	.074	.022	.138	.072	.021	.132	.070	.021	.126	.067	.020		
6.0	.142	.071	.020	.139	.070	.020	.133	.068	.020	.127	.066	.019	.122	.064	.019		
7.0	.135	.067	.019	.133	.066	.019	.127	.064	.019	.122	.063	.018	.118	.061	.018		
8.0	.130	.063	.018	.127	.063	.018	.122	.061	.017	.118	.060	.017	.114	.058	.017		
9.0	.124	.060	.017	.122	.059	.017	.118	.058	.016	.114	.057	.016	.110	.056	.016		
10.0	.119	.057	.016	.117	.057	.016	.113	.055	.016	.109	.054	.015	.106	.053	.015		

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						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.157	.145	.147	.135	.124	.100	.093	.086	.058	.054	.050	.018	.017	.016	
2.0	.156	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.134	.099	.072	.115	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.125	.087	.059	.108	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.049	.101	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.111	.071	.042	.096	.061	.036	.066	.043	.026	.038	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.058	.033	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2022-12-14

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.465
 Humidity:65.0%
 Test Distance:26.000m [K=0.4548]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

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	2H	16.3	17.3	16.7	17.6	17.9	16.2	16.2	16.2	16.2	16.2
	3H	16.9	17.8	17.3	18.1	18.5	16.2	16.2	16.2	16.2	16.2
	4H	17.0	17.8	17.4	18.2	18.5	16.2	16.2	16.2	16.2	16.2
	6H	17.0	17.7	17.4	18.1	18.5	16.2	16.2	16.2	16.2	16.2
	8H	16.9	17.6	17.3	18.0	18.4	16.2	16.2	16.2	16.2	16.2
	12H	16.9	17.5	17.3	17.9	18.3	16.2	16.2	16.2	16.2	16.2
	4H	2H	16.2	16.8	16.4	17.2	17.6	16.2	16.2	16.2	16.2
	3H	16.6	17.3	17.0	17.7	18.1	16.2	16.2	16.2	16.2	16.2
	4H	16.7	17.2	17.1	17.7	18.1	16.2	16.2	16.2	16.2	16.2
	6H	16.6	17.1	17.1	17.6	18.0	16.2	16.2	16.2	16.2	16.2
	8H	16.6	17.0	17.0	17.5	18.0	16.2	16.2	16.2	16.2	16.2
	12H	16.5	16.9	17.0	17.4	17.9	16.2	16.2	16.2	16.2	16.2
	8H	4H	16.5	16.9	17.0	17.4	17.9	16.2	16.2	16.2	16.2
	6H	16.4	16.8	16.9	17.3	17.8	16.2	16.2	16.2	16.2	16.2
	8H	16.4	16.7	16.9	17.2	17.7	16.2	16.2	16.2	16.2	16.2
	12H	16.3	16.6	16.8	17.1	17.7	16.2	16.2	16.2	16.2	16.2
	12H	4H	16.4	16.8	16.9	17.3	17.8	16.2	16.2	16.2	16.2
	6H	16.4	16.7	16.9	17.2	17.7	16.2	16.2	16.2	16.2	16.2
	8H	16.3	16.6	16.8	17.1	17.7	16.2	16.2	16.2	16.2	16.2
CIE190: 2010											

CIE190: 2010
Area: 0.134 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
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Test Date:2022-12-14

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

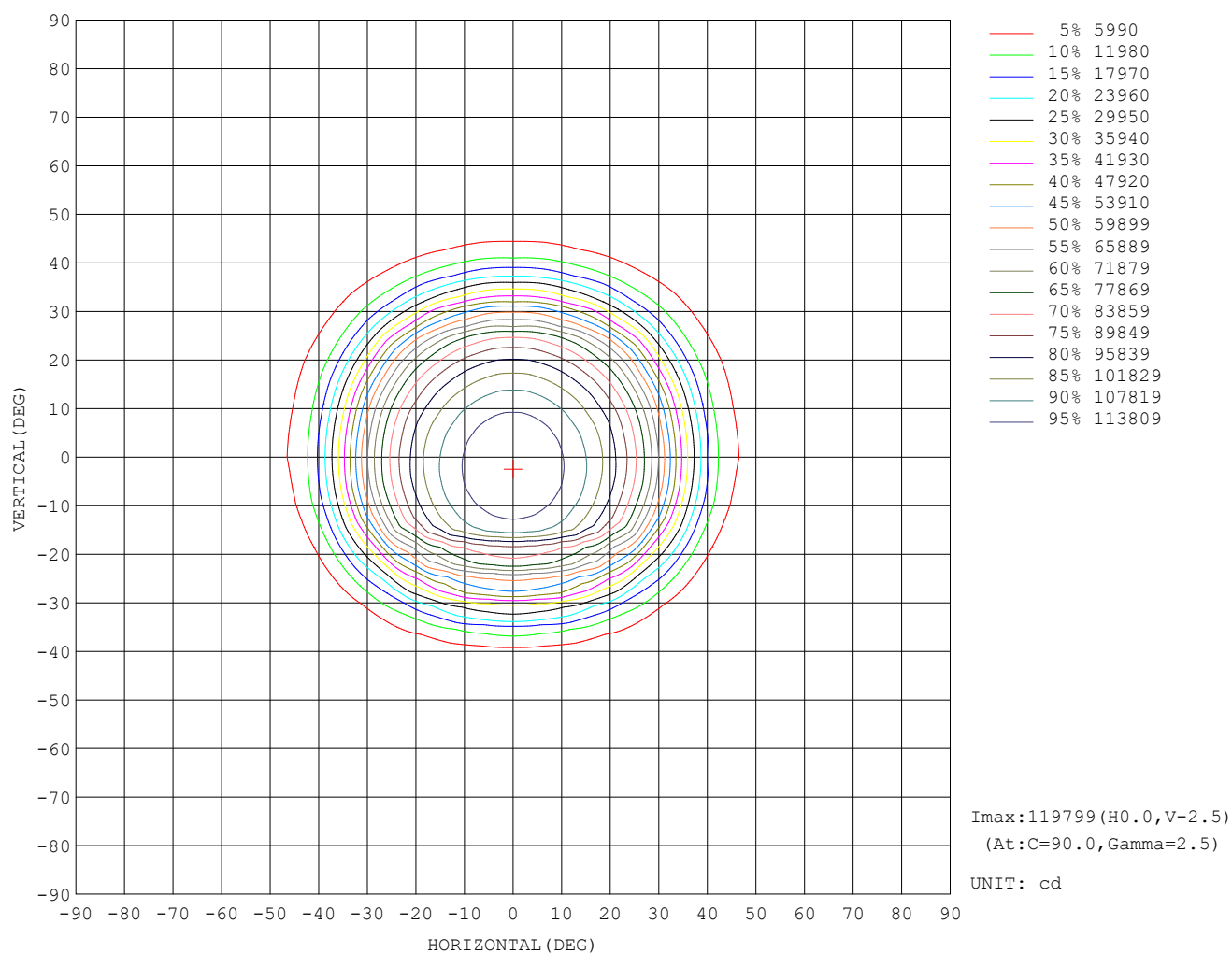
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	77	86	80	77	86	80	76	73
0.80	94	88	85	94	88	85	92	87	84	80
1.00	99	93	90	98	93	89	96	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	97	104	100	97	102	99	96	91
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	103	108	105	102	105	103	100	94
3.00	112	108	105	110	107	104	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	99
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004						Suspended			SHRNOM = 1.25	

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 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.465
 Humidity: 65.0%
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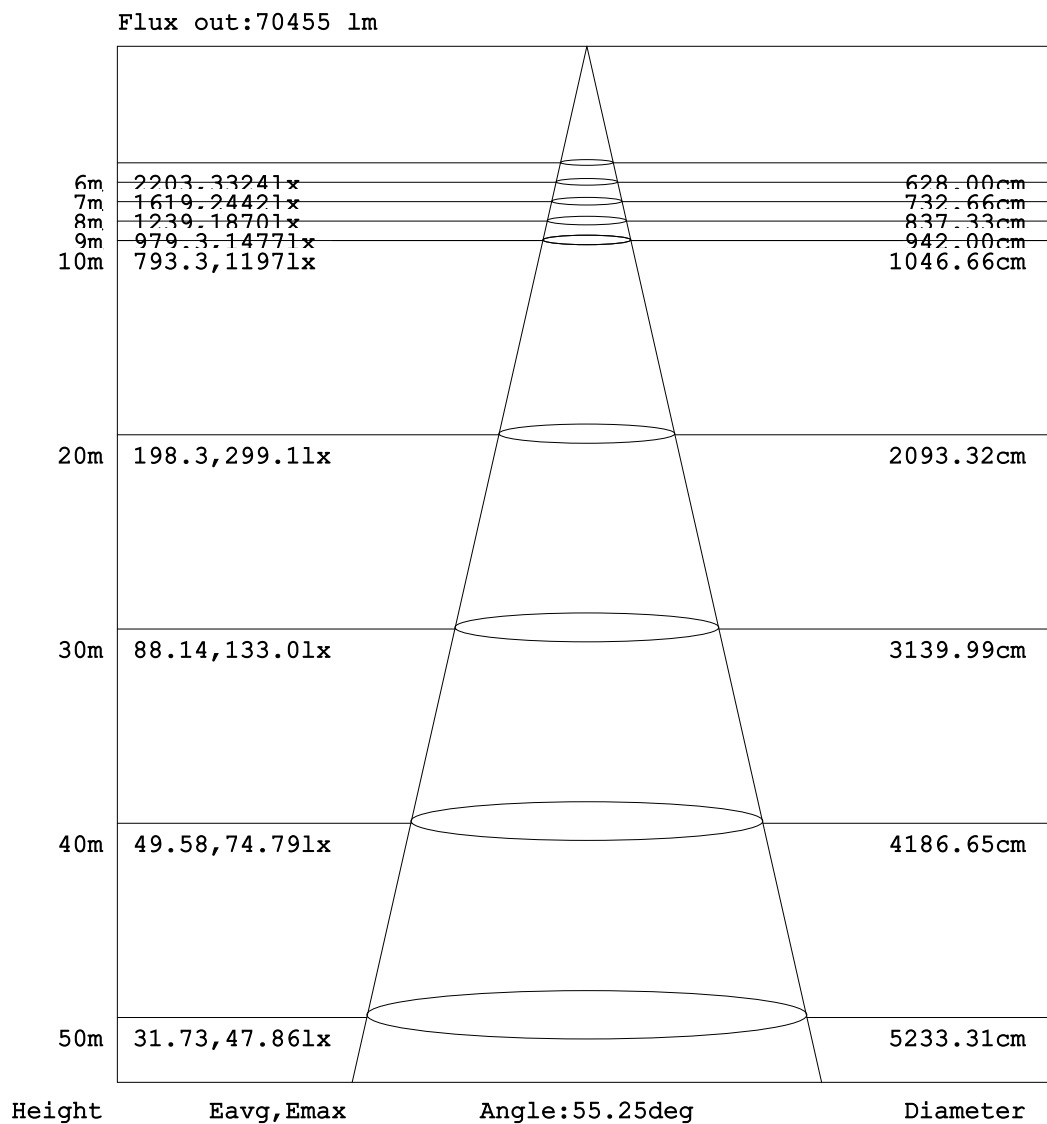
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
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Remarks:

AAI Figure



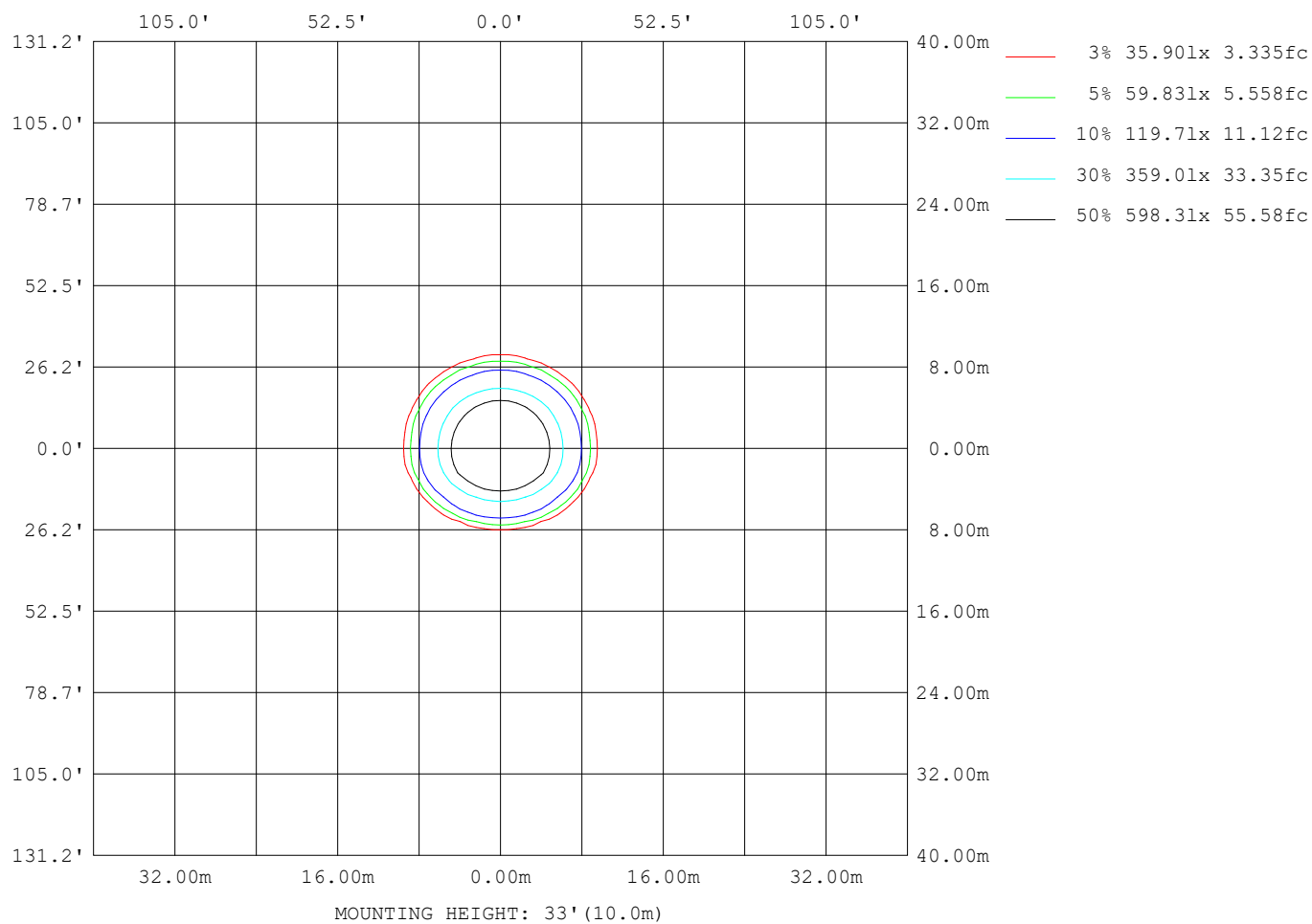
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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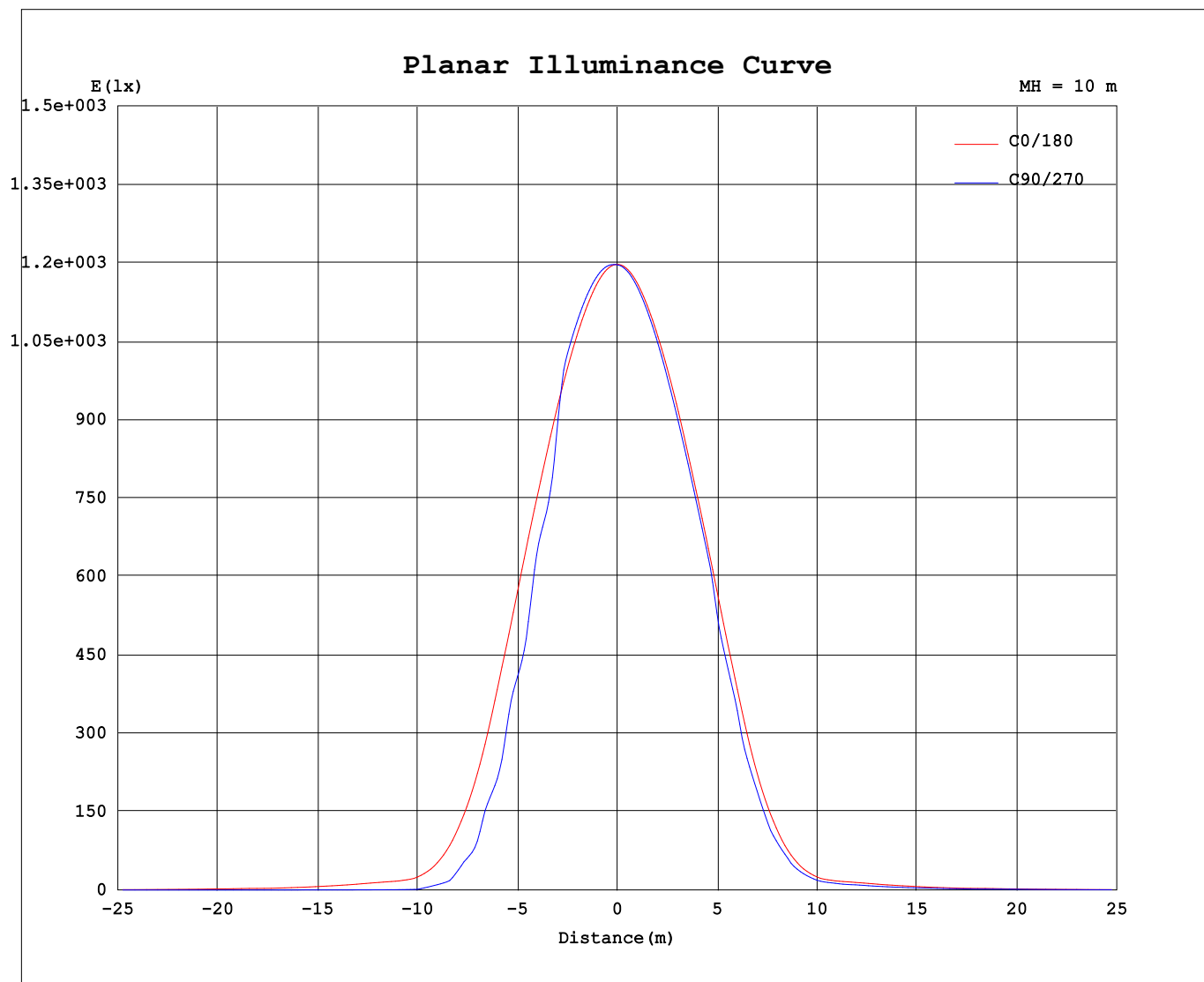
ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: LYJ
Test Date: 2022-12-14

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γ Interval: 0.5DEG
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Test Distance: 26.000m [K=0.4548]
Remarks:

Planar Illuminance Curve



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Remarks: