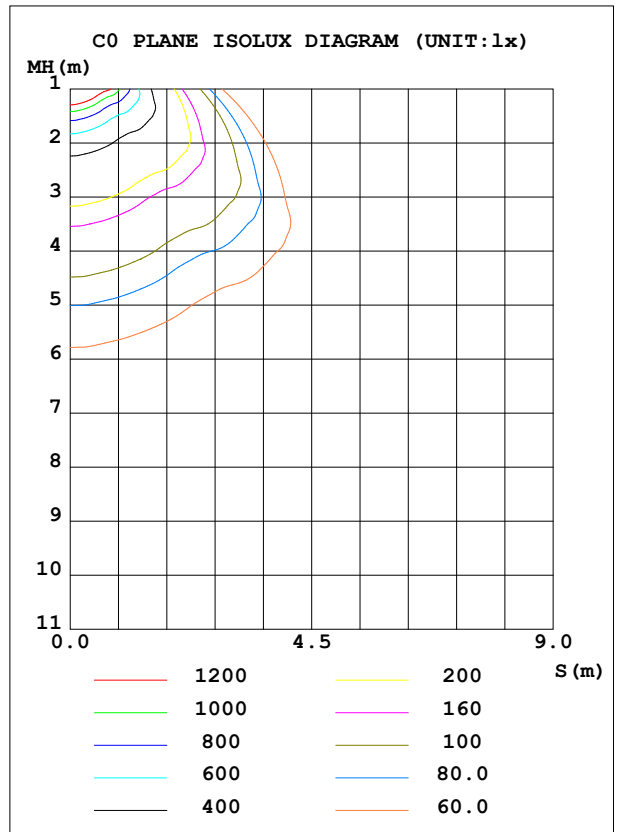
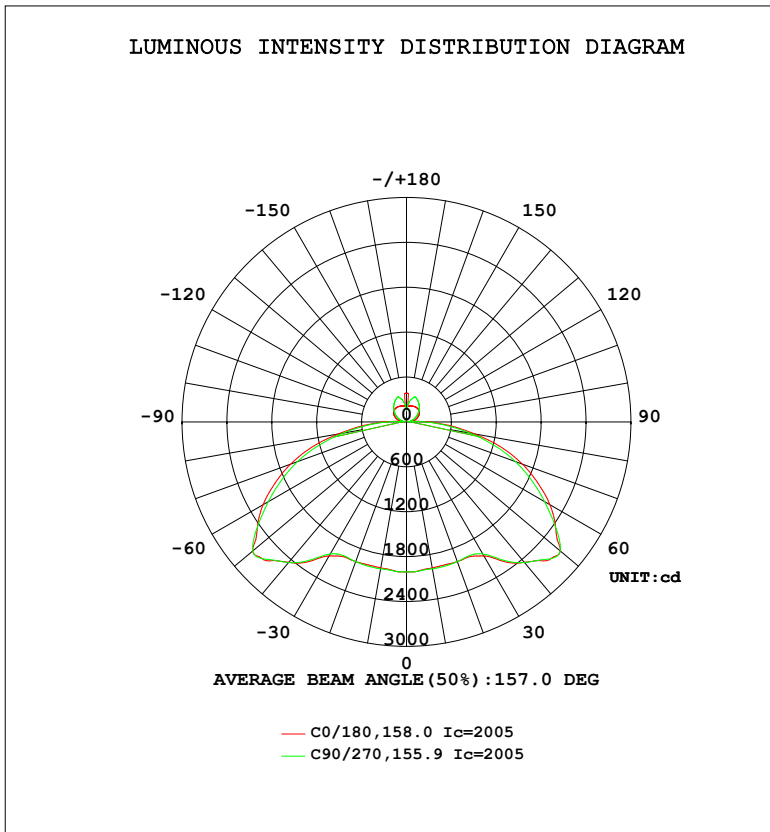


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.670A P:80.0W PF:0.995 Freq:50.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12145.1x1 lm		
NAME: CP10-080-3070-A00C07	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.81 lm/W			
MODEL	/	I _{max} (cd)	2749	S/MH (C0/180)	1.85
NOMINAL POWER (W)	/	LOR (%)	100.0	S/MH (C90/270)	1.85
RATED VOLTAGE (V)	/	TOTAL FLUX (lm)	12145	η UP, DN (C0-180)	4.6, 45.4
NOMINAL FLUX (lm)	12145.1	CIE CLASS	DIRECT	η UP, DN (C180-360)	4.6, 45.4
LAMPS INSIDE	1	η up (%)	9.1	CIBSE SHR NOM	2.00
TEST VOLTAGE (V)	/	η down (%)	90.9	CIBSE SHR MAX	2.00



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-08-09

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=0.4556]
 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	1981	1984	1993	1984	1981	1984	1993	1984	0- 10	190.1	190.1	1.57,1.57
20	1987	1971	1987	1971	1987	1971	1987	1971	10- 20	561.6	751.7	6.19,6.19
30	2069	2035	2038	2035	2069	2035	2038	2035	20- 30	919.2	1671	13.8,13.8
40	2449	2528	2453	2528	2449	2528	2453	2528	30- 40	1429	3100	25.5,25.5
50	2683	2670	2681	2670	2683	2670	2681	2670	40- 50	2034	5133	42.3,42.3
60	2213	2121	2133	2121	2213	2121	2133	2121	50- 60	2151	7284	60,60
70	1649	1541	1550	1541	1649	1541	1550	1541	60- 70	1848	9132	75.2,75.2
80	924.6	850.0	859.9	850.0	924.6	850.0	859.9	850.0	70- 80	1297	10429	85.9,85.9
90	282.6	271.4	242.5	271.4	282.6	271.4	242.5	271.4	80- 90	605.6	11034	90.9,90.9
100	98.13	78.55	43.76	78.55	98.13	78.55	43.76	78.55	90-100	130.5	11165	91.9,91.9
110	149.3	121.2	97.91	121.2	149.3	121.2	97.91	121.2	100-110	104.4	11269	92.8,92.8
120	195.4	156.8	155.5	156.8	195.4	156.8	155.5	156.8	110-120	143.8	11413	94,94
130	222.2	179.7	212.7	179.7	222.2	179.7	212.7	179.7	120-130	164.1	11577	95.3,95.3
140	233.2	220.3	266.7	220.3	233.2	220.3	266.7	220.3	130-140	169.8	11747	96.7,96.7
150	233.3	324.1	314.3	324.1	233.3	324.1	314.3	324.1	140-150	167.0	11914	98.1,98.1
160	226.2	261.9	351.8	261.9	226.2	261.9	351.8	261.9	150-160	133.6	12047	99.2,99.2
170	216.9	222.6	295.7	222.6	216.9	222.6	295.7	222.6	160-170	74.81	12122	99.8,99.8
180	381.0	357.5	148.5	357.5	381.0	357.5	148.5	357.5	170-180	22.84	12145	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 4046.8 lm

%lum = 33.3%
 %lamp = 33.3%

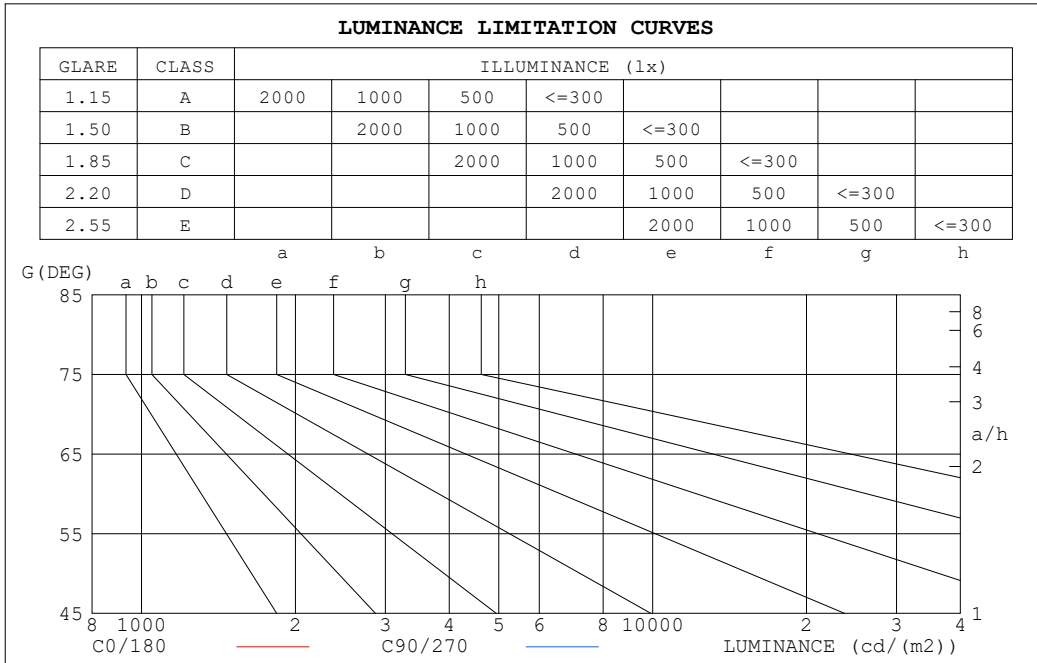
Conical surface Flux(120deg): 7284 lm

%lum = 60.0%
 %lamp = 60.0%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-08-09

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=0.4556]
 Remarks:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	96001	85685
80	75395	70046
75	71889	66461
70	68270	64099
65	65036	61715
60	62664	60347
55	60035	59797
50	59106	59008
45	52580	52028

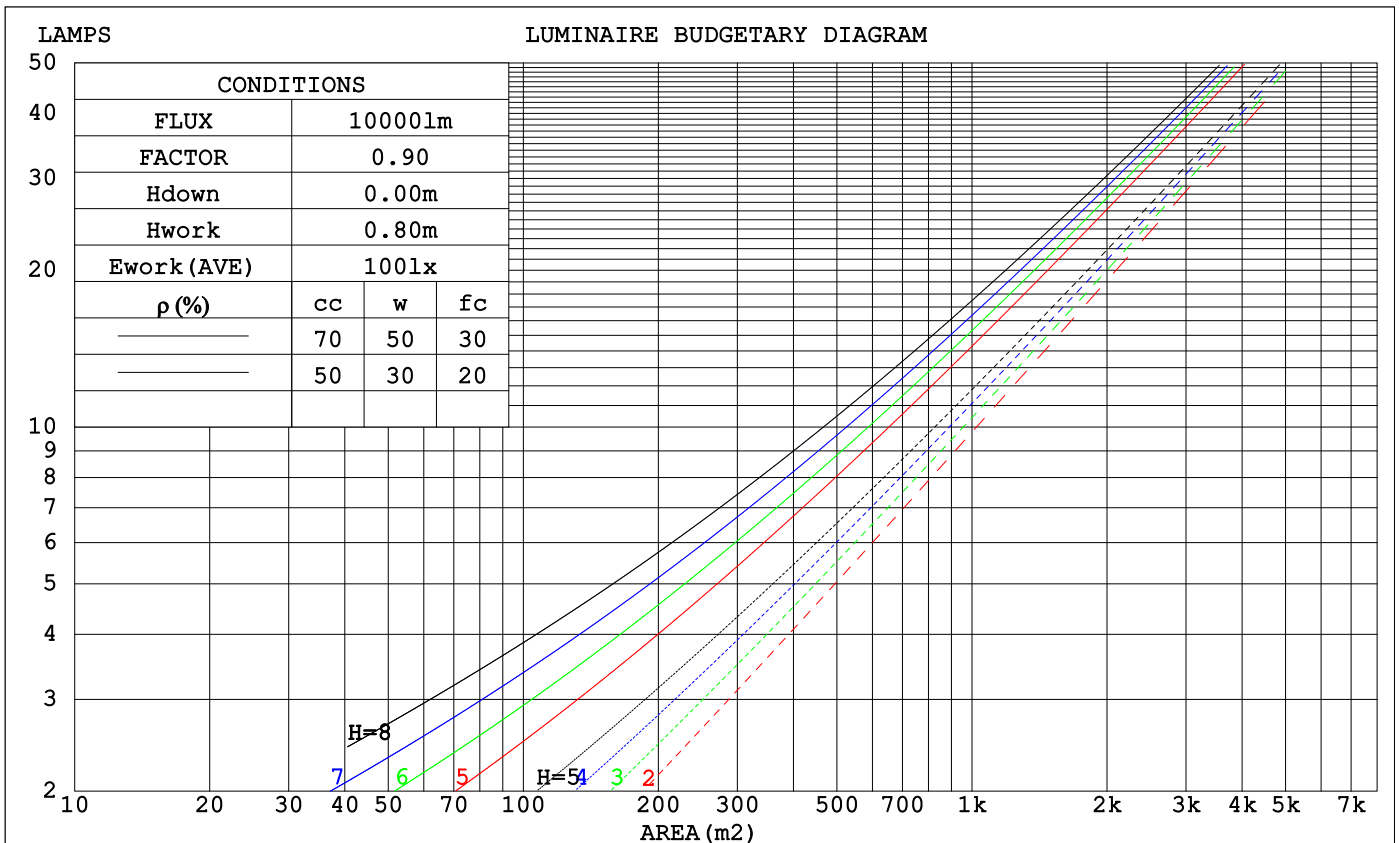
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-08-09

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=0.4556]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.00	.00	.00	.94	.94	.94	.91
1.0	.98	.93	.88	.95	.90	.86	.89	.85	.81	.83	.80	.77	.78	.76	.73	.70
2.0	.83	.75	.68	.80	.73	.67	.75	.69	.64	.70	.65	.61	.66	.62	.58	.55
3.0	.71	.62	.54	.69	.60	.53	.64	.57	.51	.60	.54	.49	.56	.51	.47	.44
4.0	.62	.52	.44	.60	.50	.43	.56	.48	.42	.52	.46	.40	.49	.43	.39	.36
5.0	.54	.44	.37	.52	.43	.36	.49	.41	.35	.46	.39	.34	.43	.37	.32	.30
6.0	.48	.38	.31	.46	.37	.31	.44	.36	.29	.41	.34	.28	.39	.32	.27	.25
7.0	.43	.33	.27	.42	.33	.26	.39	.31	.25	.37	.30	.25	.35	.28	.24	.21
8.0	.39	.29	.23	.38	.29	.23	.35	.28	.22	.33	.26	.21	.31	.25	.21	.18
9.0	.35	.26	.20	.34	.26	.20	.32	.25	.19	.30	.24	.19	.29	.23	.18	.16
10.0	.32	.24	.18	.31	.23	.18	.30	.22	.17	.28	.21	.17	.27	.21	.16	.14



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-08-09

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=0.4556]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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	.380	.216	.068	.370	.211	.067	.351	.202	.064	.334	.193	.062	.318	.184	.059	
2.0	.342	.188	.058	.333	.184	.057	.316	.176	.055	.301	.169	.053	.286	.162	.051	
3.0	.309	.164	.049	.301	.161	.048	.285	.155	.047	.271	.149	.046	.258	.143	.044	
4.0	.280	.145	.043	.272	.143	.042	.259	.137	.041	.246	.132	.040	.234	.127	.039	
5.0	.255	.130	.038	.248	.128	.037	.236	.123	.036	.224	.118	.035	.214	.114	.034	
6.0	.234	.117	.034	.228	.115	.033	.217	.111	.032	.206	.107	.031	.196	.103	.031	
7.0	.216	.107	.030	.210	.105	.030	.200	.101	.029	.190	.098	.028	.181	.094	.028	
8.0	.200	.098	.027	.195	.096	.027	.186	.093	.026	.177	.090	.026	.169	.087	.025	
9.0	.186	.090	.025	.181	.088	.025	.173	.085	.024	.165	.083	.024	.157	.080	.023	
10.0	.174	.083	.023	.170	.082	.023	.162	.079	.022	.154	.077	.022	.148	.074	.021	

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	.260	.260	.260	.222	.222	.222	.152	.152	.152	.087	.087	.087	.028	.028	.028	
1.0	.255	.226	.199	.219	.194	.171	.149	.133	.118	.086	.077	.069	.028	.025	.022	
2.0	.250	.202	.163	.214	.174	.141	.147	.121	.098	.085	.070	.057	.027	.023	.019	
3.0	.243	.186	.140	.208	.160	.121	.143	.111	.085	.083	.065	.050	.027	.021	.016	
4.0	.236	.173	.125	.202	.150	.109	.139	.104	.077	.081	.061	.045	.026	.020	.015	
5.0	.228	.163	.115	.196	.141	.100	.135	.099	.071	.078	.058	.042	.025	.019	.014	
6.0	.221	.155	.108	.190	.134	.094	.131	.094	.067	.076	.055	.040	.025	.018	.013	
7.0	.214	.149	.103	.184	.129	.090	.127	.090	.064	.074	.053	.038	.024	.017	.013	
8.0	.207	.143	.099	.178	.124	.086	.123	.087	.061	.072	.051	.037	.023	.017	.012	
9.0	.200	.138	.096	.173	.120	.084	.120	.084	.060	.070	.050	.036	.023	.016	.012	
10.0	.194	.134	.094	.168	.116	.082	.116	.082	.058	.068	.048	.035	.022	.016	.012	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-08-09

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=0.4556]
 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	26.4	28.1	26.9	28.6	29.1	26.2	27.8	26.7	28.3	28.9
3H	28.8	30.3	29.3	30.8	31.4	28.5	30.0	29.0	30.5	31.1
4H	29.9	31.3	30.4	31.8	32.4	29.5	30.9	30.0	31.4	32.0
6H	30.8	32.1	31.3	32.6	33.2	30.4	31.7	30.9	32.2	32.8
8H	31.2	32.4	31.7	33.0	33.6	30.7	32.0	31.3	32.5	33.1
12H	31.5	32.7	32.1	33.3	33.9	31.1	32.3	31.6	32.8	33.5
4H 2H	27.2	28.6	27.7	29.1	29.7	27.0	28.4	27.5	28.9	29.5
3H	29.8	31.0	30.3	31.6	32.2	29.5	30.7	30.1	31.3	31.9
4H	31.0	32.1	31.6	32.7	33.3	30.7	31.7	31.2	32.3	33.0
6H	32.1	33.1	32.7	33.6	34.3	31.7	32.6	32.2	33.2	33.9
8H	32.5	33.5	33.1	34.1	34.7	32.1	33.0	32.7	33.6	34.3
12H	33.0	33.8	33.6	34.5	35.1	32.5	33.4	33.1	34.0	34.7
8H 4H	31.4	32.3	32.0	32.9	33.6	31.1	32.0	31.7	32.6	33.3
6H	32.7	33.5	33.3	34.1	34.8	32.3	33.1	32.9	33.7	34.4
8H	33.3	34.0	33.9	34.6	35.3	32.9	33.6	33.5	34.2	34.9
12H	33.9	34.5	34.6	35.2	35.9	33.4	34.1	34.1	34.7	35.4
12H 4H	31.5	32.3	32.1	32.9	33.6	31.2	32.0	31.8	32.7	33.3
6H	32.8	33.5	33.5	34.1	34.9	32.5	33.2	33.1	33.8	34.5
8H	33.5	34.1	34.1	34.7	35.5	33.1	33.7	33.7	34.4	35.1
CIE190: 2010										

CIE190: 2010
 Area: 0.070686 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-08-09

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=0.4556]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

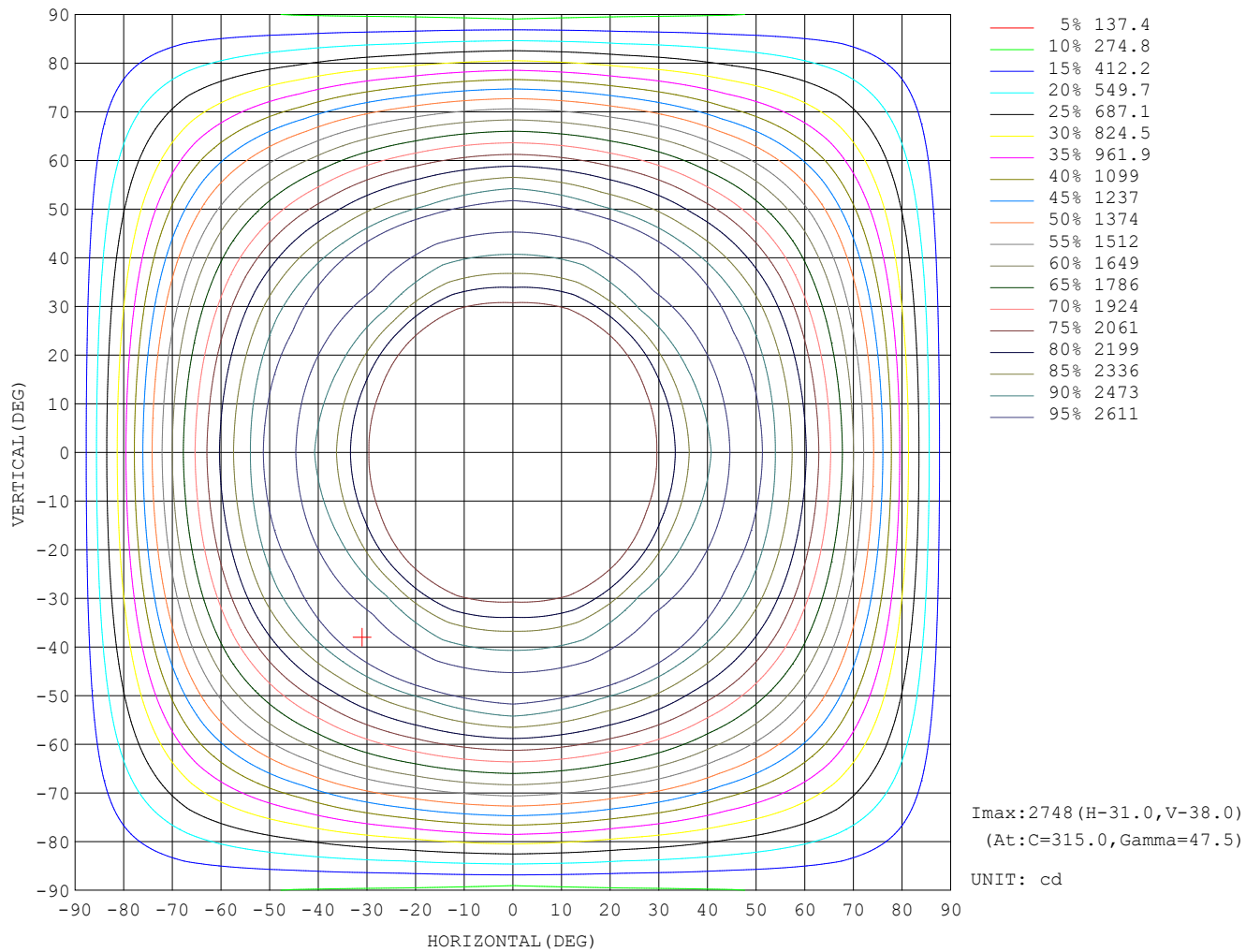
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	46	33	25	45	33	25	43	32	25	17
0.80	56	43	34	55	42	34	52	41	33	25
1.00	65	52	43	63	51	43	60	52	42	33
1.25	73	60	51	71	59	51	67	57	49	40
1.50	78	66	58	76	65	57	71	62	55	45
2.00	86	76	67	84	74	66	79	70	64	53
2.50	91	81	74	88	79	72	83	75	69	58
3.00	95	86	79	92	84	78	86	80	74	62
4.00	100	93	87	97	90	84	91	85	81	68
5.00	103	97	91	100	94	89	93	89	85	72
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-08-09

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=0.4556]
 Remarks:

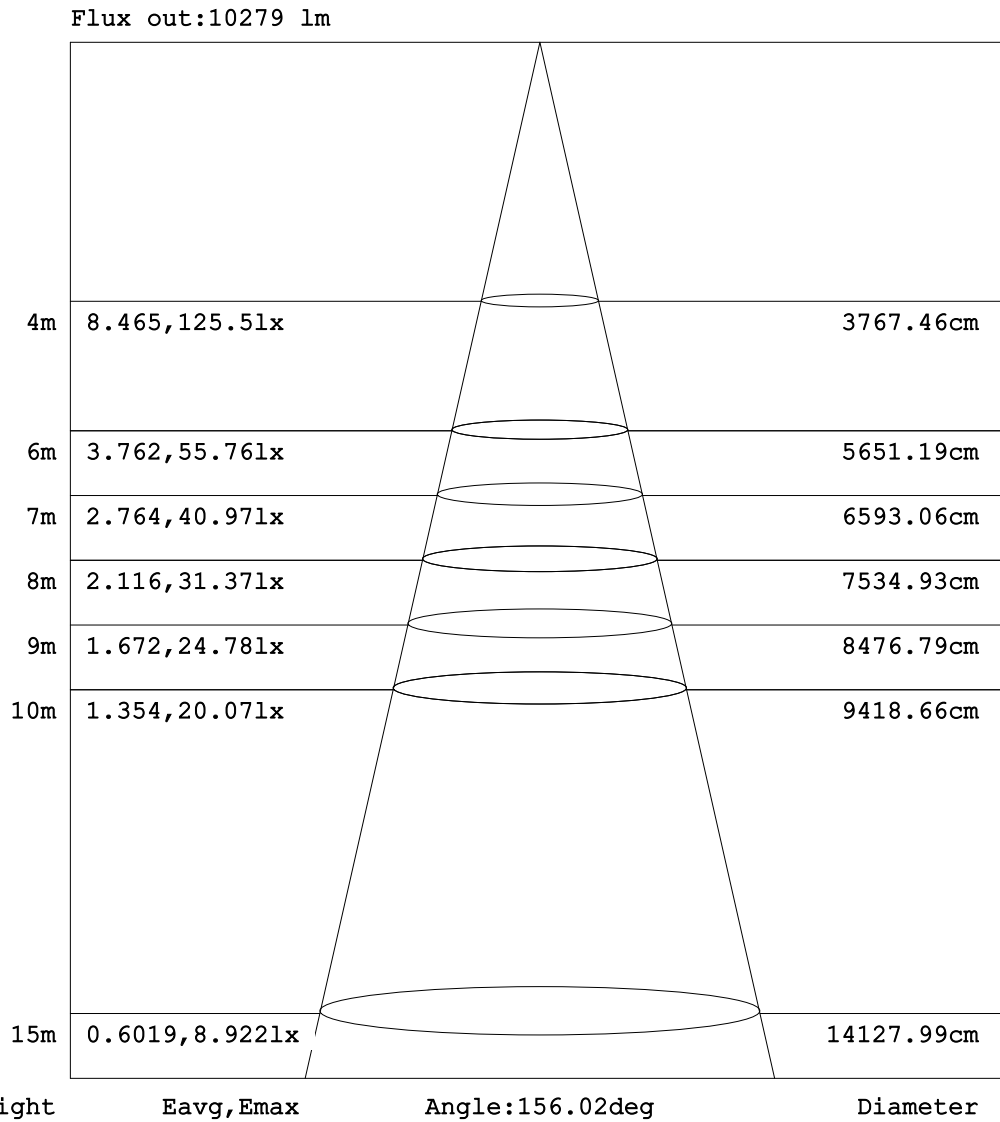
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-08-09

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=0.4556]
 Remarks:

AAI Figure

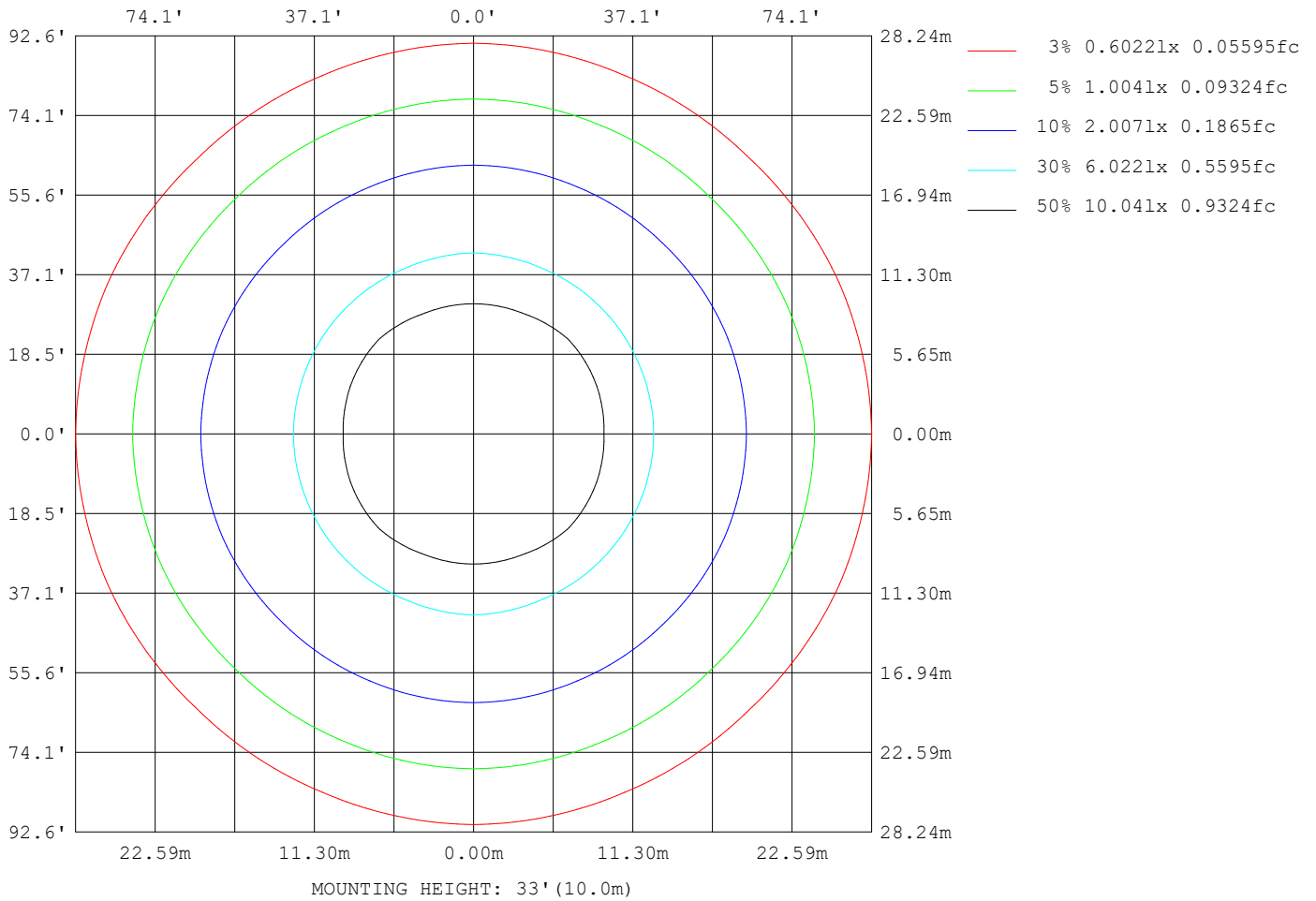


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:LYJ
 Test Date:2023-08-09

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=0.4556]
 Remarks:

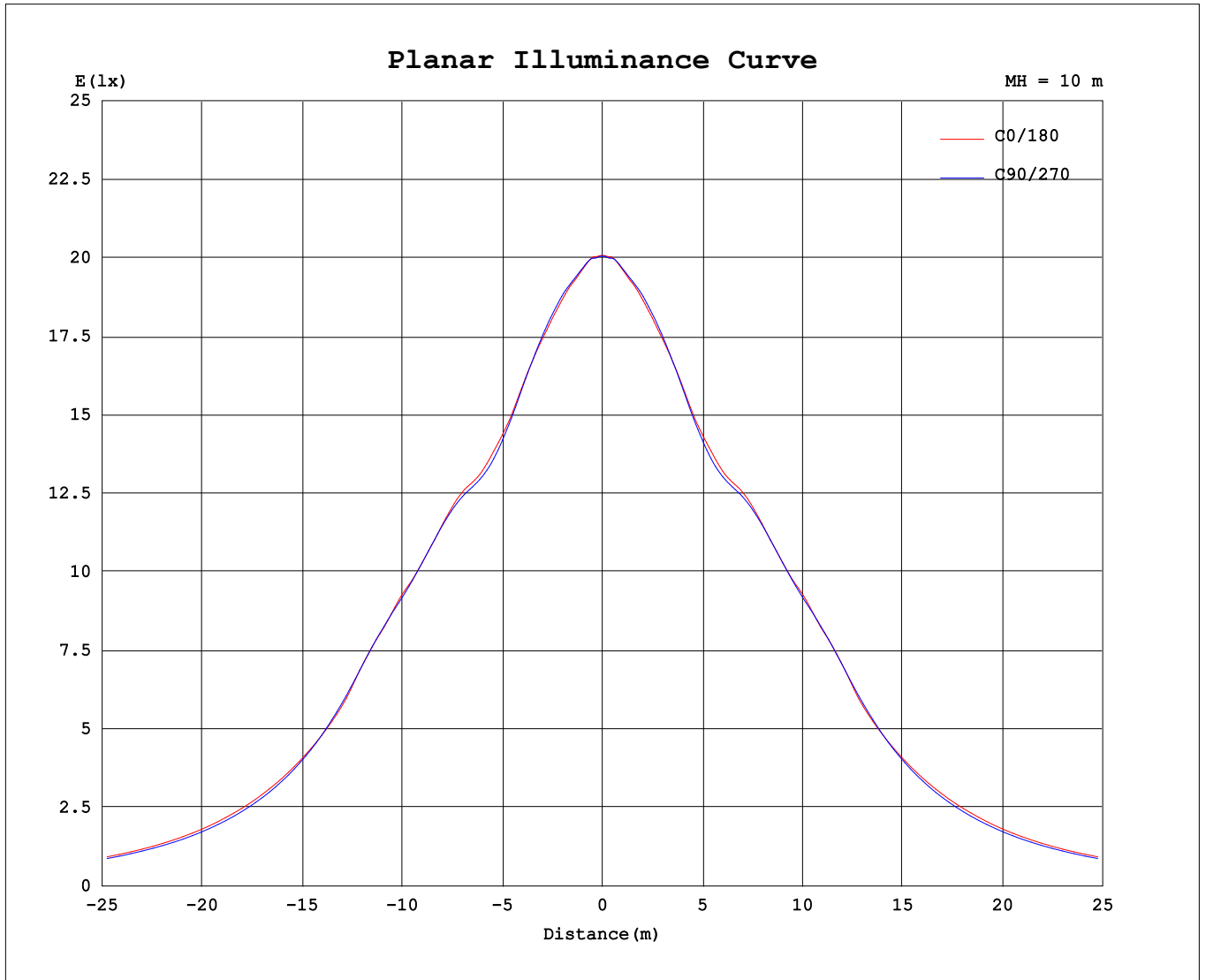
ISOLUX DIAGRAM



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: LYJ
 Test Date: 2023-08-09

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=0.4556]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: LYJ
Test Date: 2023-08-09

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=0.4556]
Remarks: