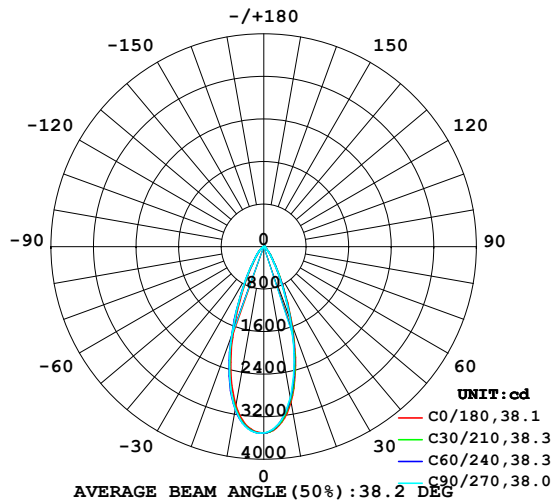


LUMINAIRE PHOTOMETRIC TEST REPORT

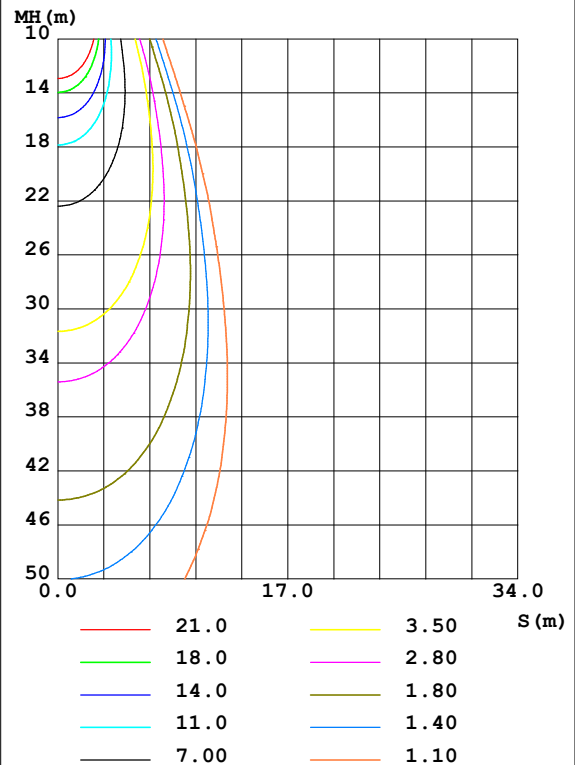
NAME:	TYPE:CRI90 5000K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 87.95 lm/W
MODEL		I _{max} (cd)	3510	S/MH (C0/180)	0.62	
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH (C90/270)	0.64	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1736.9	η UP,DN (C0-180)	0.0,47.5	
NOMINAL FLUX(lm)	1736.88	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,52.5	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	120	η down (%)	100.0	CIBSE SHR MAX	0.60	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-07-30

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.620m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2962	2921	2879	2931	3030	3089	3098	3036	0- 10	310.8	310.8	17.9,17.9
20	1570	1513	1474	1490	1654	1751	1746	1641	10- 20	641.2	952.0	54.8,54.8
30	516.2	507.7	472.1	471.7	555.8	612.1	607.6	533.9	20- 30	443.9	1396	80.4,80.4
40	186.3	184.9	176.5	163.9	196.3	210.5	211.6	179.2	30- 40	195.7	1592	91.6,91.6
50	60.04	57.20	55.55	54.28	66.93	72.31	73.01	60.99	40- 50	90.47	1682	96.8,96.8
60	15.96	15.61	15.09	15.55	16.79	17.41	17.25	16.30	50- 60	29.61	1712	98.6,98.6
70	10.64	10.78	10.24	10.37	10.87	11.16	10.96	10.63	60- 70	12.81	1725	99.3,99.3
80	6.649	6.506	6.114	6.429	7.269	7.588	7.487	7.050	70- 80	9.571	1734	99.8,99.8
90	0.1123	0.1123	0.1124	0.1067	0.2505	0.2708	0.2652	0.2366	80- 90	2.753	1737	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1647.2 lm

%lum = 94.8%

%lamp = 94.8%

Conical surface Flux(120deg): 1711.7 lm

%lum = 98.6%

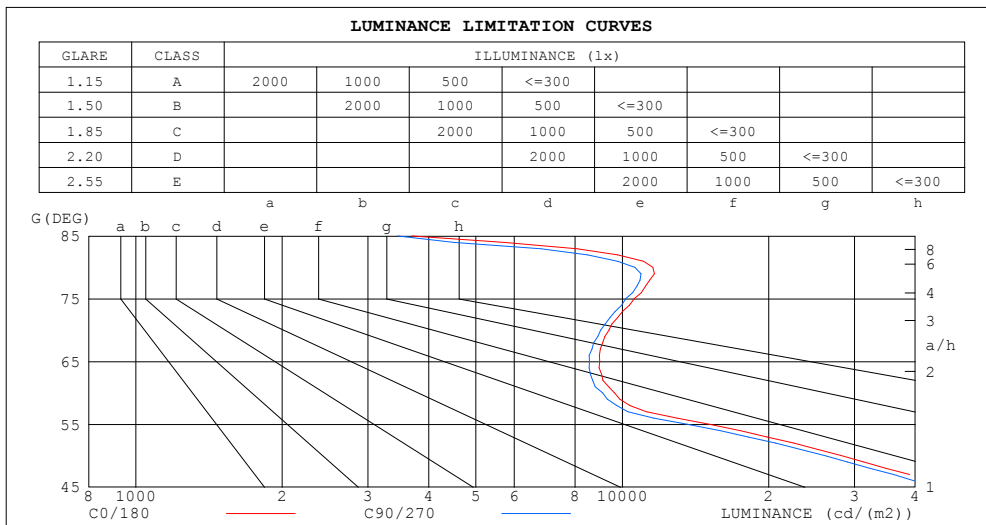
%lamp = 98.6%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-07-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.620m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME:	TYPE:CRI90 5000K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3700	3455
80	11560	10620
75	10587	10155
70	9389	9033
65	8982	8566
60	9636	9103
55	15093	13587
50	28201	26069
45	47577	44221

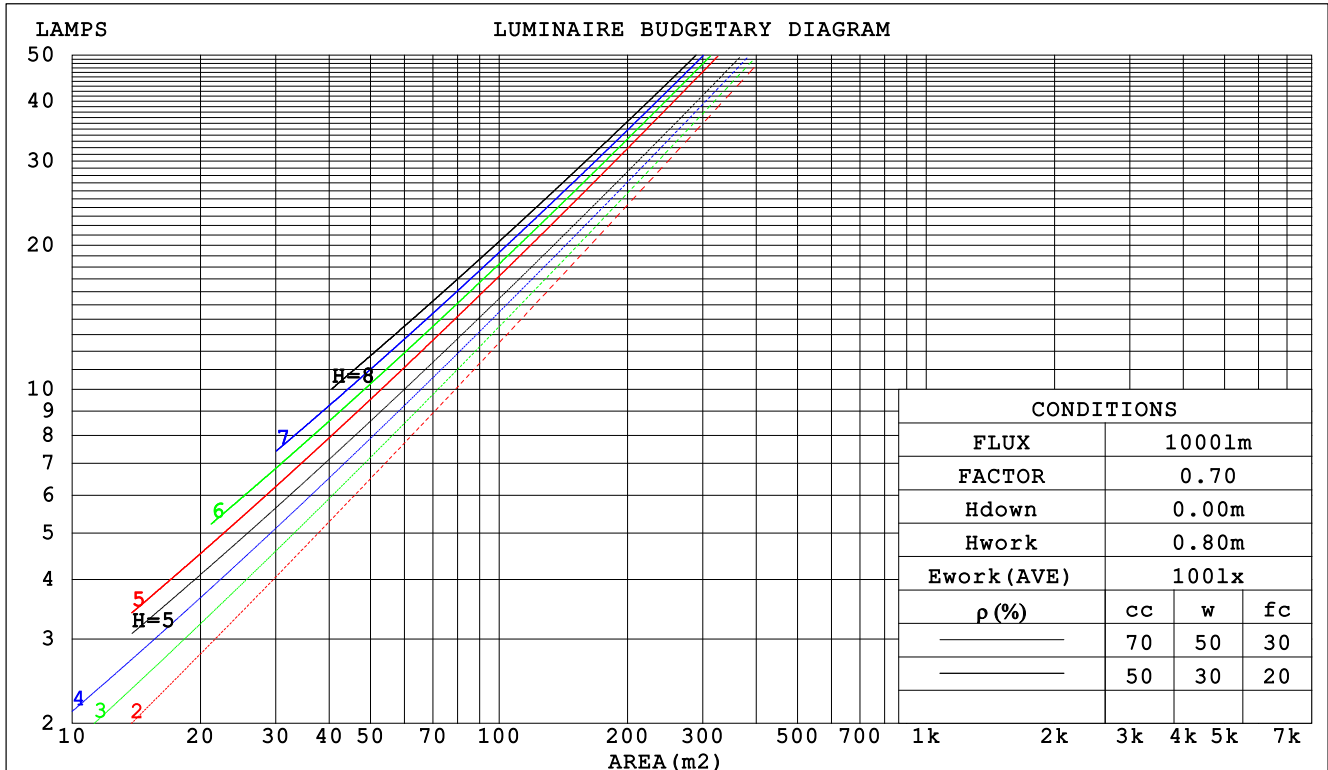
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:CRI90 5000K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:#65MM	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	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.94	.92	.90	.89
3.0	.98	.93	.90	.97	.92	.89	.94	.90	.88	.92	.89	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.87	.83	.89	.85	.82	.87	.84	.81	.85	.83	.80	.79
5.0	.87	.82	.78	.86	.82	.78	.85	.80	.77	.83	.79	.76	.82	.78	.76	.74
6.0	.83	.77	.74	.82	.77	.73	.81	.76	.73	.79	.75	.72	.78	.75	.72	.71
7.0	.79	.73	.70	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.67
8.0	.75	.70	.66	.75	.69	.66	.74	.69	.66	.73	.68	.65	.72	.68	.65	.64
9.0	.72	.66	.63	.71	.66	.63	.70	.66	.63	.70	.65	.62	.69	.65	.62	.61
10.0	.69	.63	.60	.68	.63	.60	.67	.63	.60	.67	.63	.60	.66	.62	.59	.58



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

WEC AND CCEC

NAME:	TYPE:CRI90 5000K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	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	.169	.096	.031	.163	.093	.029	.150	.086	.028	.139	.080	.026	.128	.074	.024		
2.0	.160	.088	.027	.154	.085	.026	.144	.080	.025	.134	.075	.024	.125	.071	.022		
3.0	.151	.080	.024	.146	.078	.024	.137	.074	.023	.129	.071	.022	.121	.067	.021		
4.0	.143	.074	.022	.139	.073	.021	.131	.069	.021	.124	.067	.020	.117	.064	.019		
5.0	.135	.069	.020	.132	.068	.020	.125	.065	.019	.119	.063	.019	.113	.060	.018		
6.0	.128	.064	.018	.125	.063	.018	.120	.061	.018	.114	.059	.017	.109	.057	.017		
7.0	.122	.060	.017	.120	.060	.017	.115	.058	.017	.110	.056	.016	.105	.055	.016		
8.0	.117	.057	.016	.114	.056	.016	.110	.055	.016	.106	.054	.015	.102	.052	.015		
9.0	.112	.054	.015	.110	.053	.015	.106	.052	.015	.102	.051	.015	.098	.050	.014		
10.0	.107	.051	.014	.105	.051	.014	.101	.050	.014	.098	.049	.014	.095	.048	.014		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.171	.157	.145	.146	.135	.125	.100	.093	.087	.057	.054	.050	.018	.017	.016	
2.0	.155	.133	.114	.132	.114	.099	.091	.079	.069	.052	.046	.040	.017	.015	.013	
3.0	.142	.113	.091	.121	.098	.079	.083	.068	.055	.048	.040	.033	.015	.013	.011	
4.0	.131	.099	.074	.112	.085	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
5.0	.121	.087	.061	.104	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.113	.077	.051	.097	.067	.045	.067	.047	.032	.039	.028	.019	.013	.009	.006	
7.0	.107	.070	.044	.092	.060	.038	.063	.042	.027	.037	.025	.016	.012	.008	.005	
8.0	.101	.063	.037	.087	.055	.033	.060	.038	.023	.035	.023	.014	.011	.007	.005	
9.0	.095	.058	.033	.082	.050	.028	.057	.035	.020	.033	.021	.012	.011	.007	.004	
10.0	.091	.053	.029	.078	.046	.025	.054	.033	.018	.032	.019	.011	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME :					TYPE:CRI90 5000K			WEIGHT:			
SPEC.:CYL-20-CCT-WT					DIM. :			SERIAL No.:1			
MFR. :					SUR.:Φ65MM			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	2H	17.3	18.2	17.6	18.4	18.5	17.0	17.9	17.2	18.0	18.2
	3H	17.4	18.2	17.6	18.4	18.6	17.1	17.9	17.3	18.1	18.3
	4H	17.5	18.2	17.8	18.5	18.7	17.2	17.9	17.4	18.1	18.4
	6H	17.6	18.3	17.9	18.6	18.8	17.3	18.0	17.6	18.3	18.5
	8H	17.7	18.4	18.0	18.6	18.9	17.3	18.0	17.6	18.3	18.5
	12H	17.6	18.3	18.0	18.6	18.8	17.3	18.0	17.6	18.2	18.5
4H	2H	17.2	17.9	17.5	18.2	18.4	16.9	17.6	17.1	17.8	18.1
	3H	17.4	18.0	17.7	18.3	18.5	17.0	17.7	17.4	18.0	18.2
	4H	17.6	18.1	17.9	18.4	18.7	17.2	17.8	17.6	18.1	18.4
	6H	17.8	18.3	18.2	18.7	19.0	17.5	18.0	17.9	18.4	18.7
	8H	17.9	18.4	18.3	18.7	19.1	17.6	18.1	18.0	18.4	18.8
	12H	17.9	18.3	18.3	18.7	19.1	17.5	18.0	17.9	18.4	18.7
8H	4H	17.6	18.1	18.0	18.4	18.8	17.3	17.8	17.7	18.1	18.5
	6H	17.9	18.3	18.4	18.7	19.2	17.7	18.1	18.1	18.5	18.9
	8H	18.1	18.4	18.5	18.8	19.3	17.7	18.1	18.2	18.5	19.0
	12H	18.0	18.3	18.5	18.8	19.3	17.7	18.0	18.2	18.5	18.9
12H	4H	17.6	18.0	18.0	18.4	18.8	17.3	17.7	17.7	18.1	18.5
	6H	17.9	18.3	18.4	18.7	19.2	17.7	18.0	18.1	18.4	18.9
	8H	18.1	18.4	18.5	18.8	19.3	17.8	18.1	18.2	18.5	19.0
Variations with the observer position at spacings:											
S = 1.0H		+ 1.6 / - 2.7					+ 1.6 / - 2.7				
1.5H		+ 2.6 / - 2.9					+ 2.5 / - 2.9				
2.0H		+ 3.6 / - 1.9					+ 3.4 / - 1.9				

CIE Pub.117, 1737 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 1.9$)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2025-07-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.620m [K=1.0000]
 Remarks:

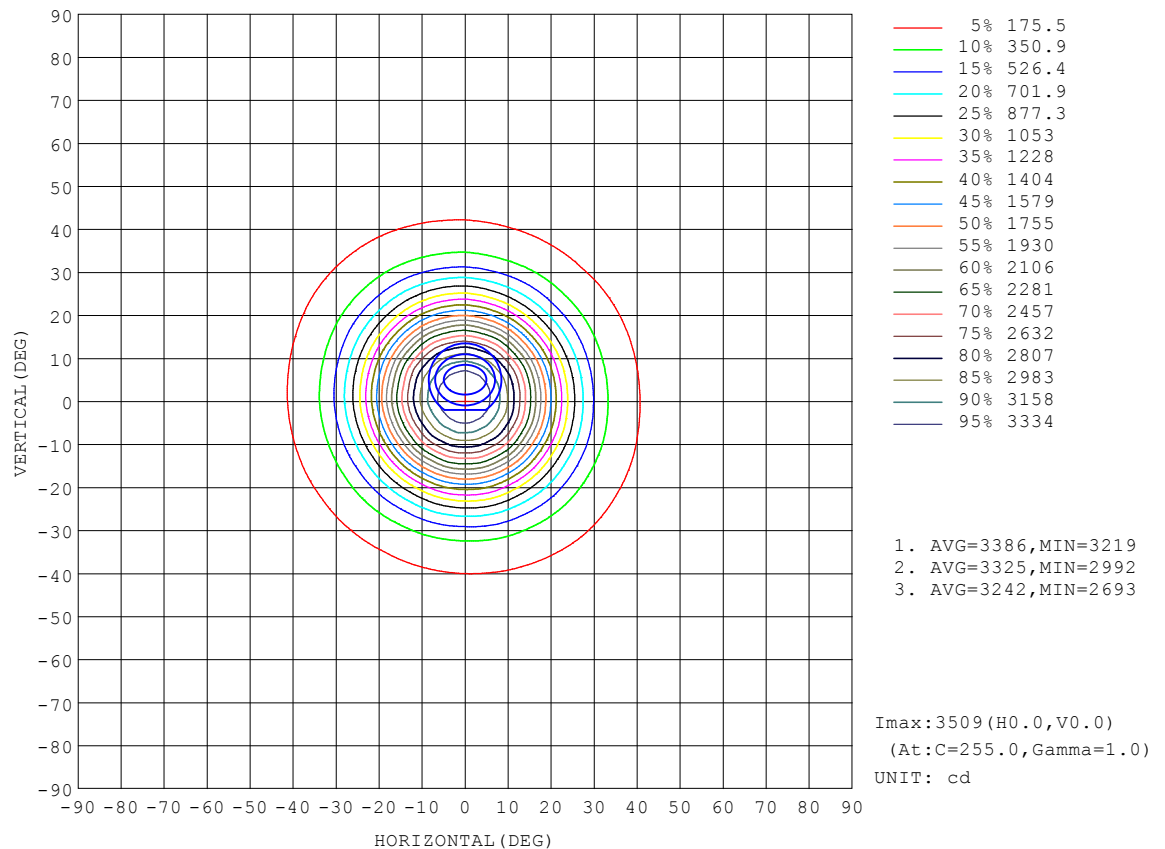
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

NAME:	TYPE:CRI90 5000K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:

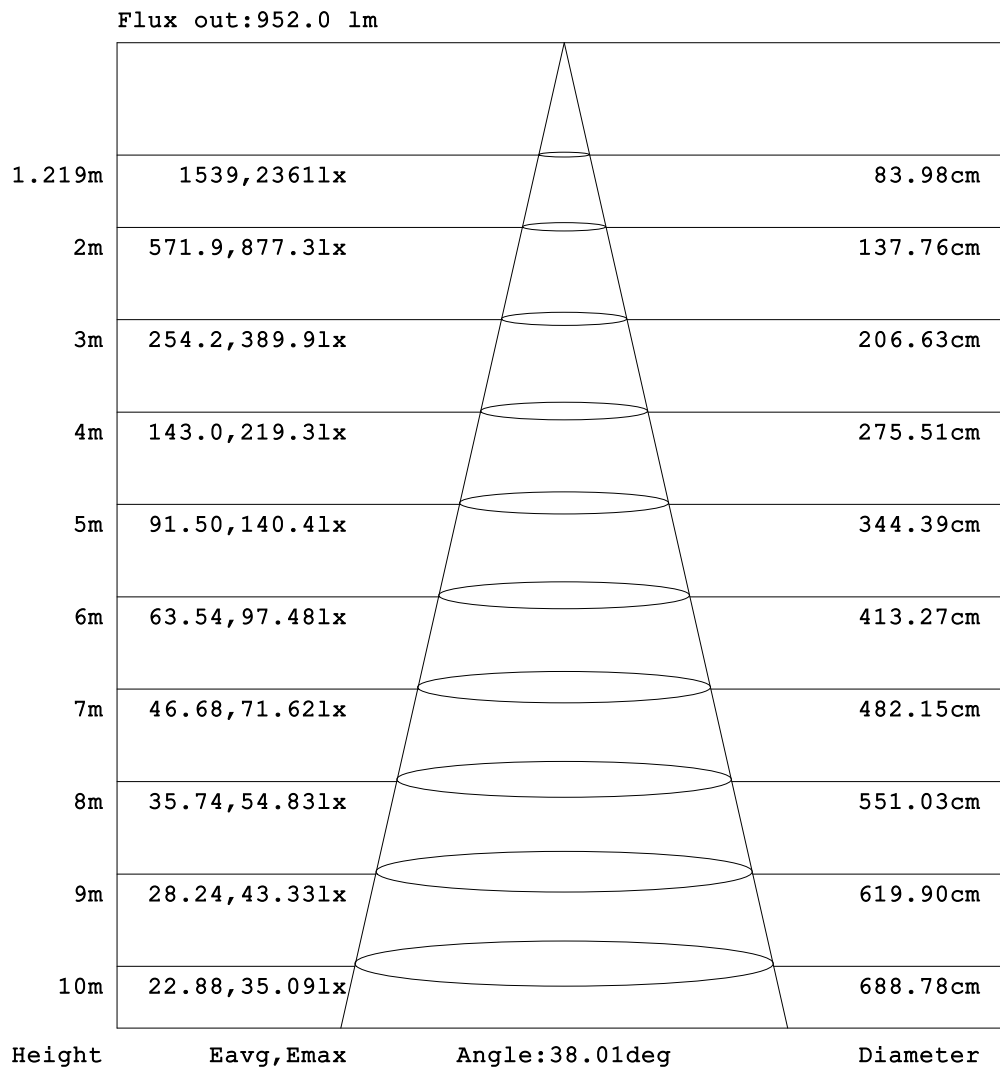


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

AAI Figure

NAME:	TYPE:CRI90 5000K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:



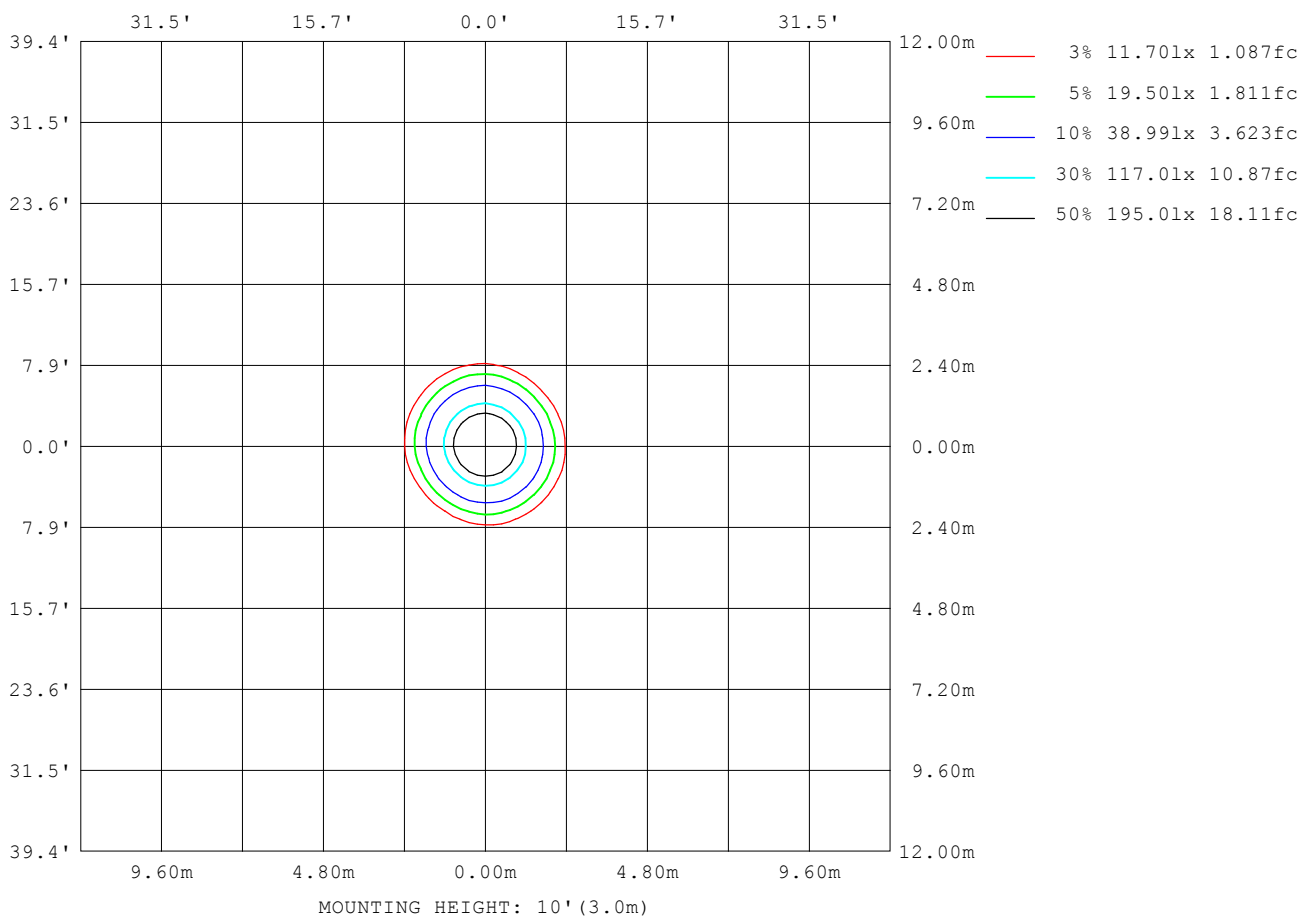
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME:	TYPE:CRI90 5000K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

LED Avg.L Report

NAME:	TYPE:CRI90 5000K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:

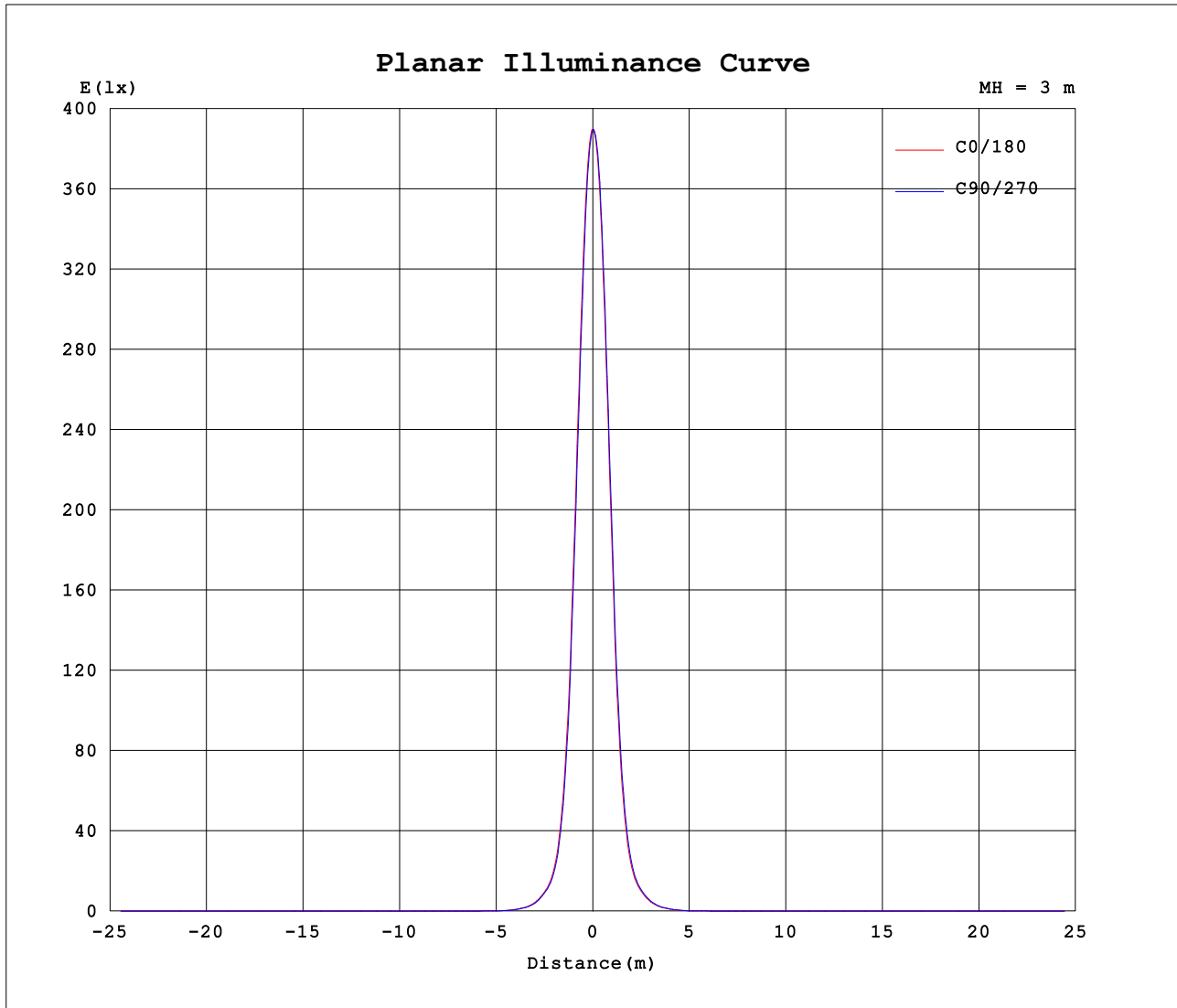
AvgL	cd/m2
L_0~180 (65) av	9099
L_0~180 (75) av	10753
L_0~180 (85) av	5362
L_90~270 (65) av	8978
L_90~270 (75) av	10548
L_90~270 (85) av	6137
L_45 (65) av	9048
L_45 (75) av	10726
L_45 (85) av	5653

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2025-07-30

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 5.620m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```