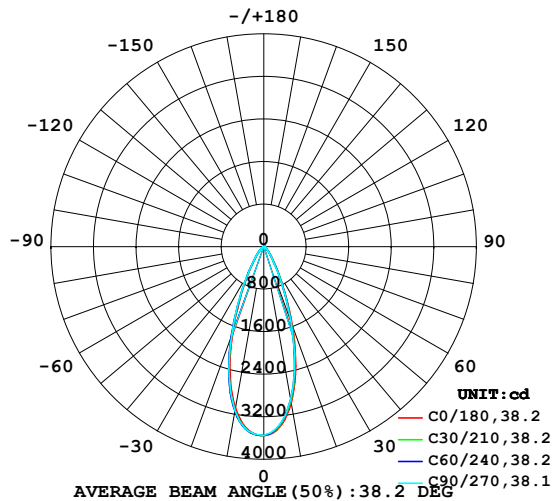


LUMINAIRE PHOTOMETRIC TEST REPORT

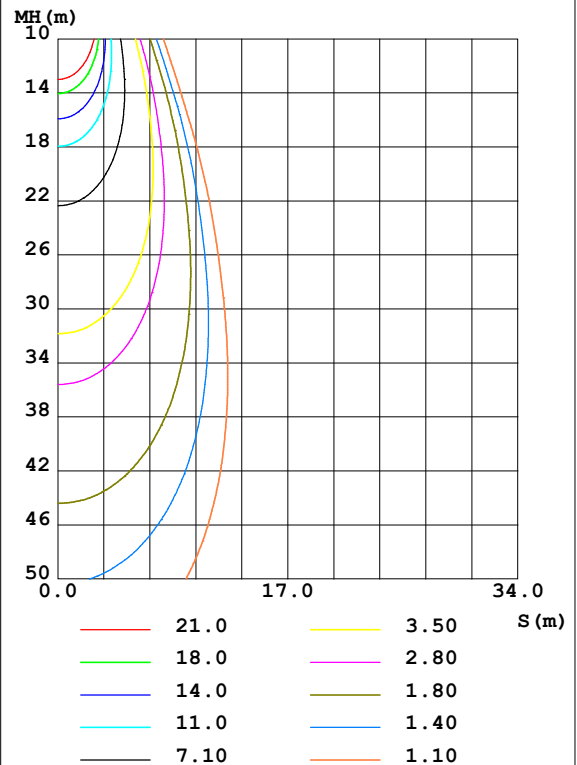
NAME:	TYPE:CRI90 4000K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 93.36 lm/W
MODEL		Imax(cd)	3551	S/MH(C0/180)	0.63	
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	0.64	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1777.3	η UP,DN(C0-180)	0.0,47.5	
NOMINAL FLUX(lm)	1777.27	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	0.65	

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	2985	2944	2915	2978	3079	3126	3131	3075	0- 10	314.6	314.6	17.7,17.7
20	1579	1511	1498	1559	1703	1770	1772	1697	10- 20	650.8	965.4	54.3,54.3
30	525.3	508.3	487.3	514.3	581.6	623.3	625.1	578.0	20- 30	456.5	1422	80,80
40	190.2	184.1	182.1	181.8	205.2	212.1	218.1	197.7	30- 40	204.0	1626	91.5,91.5
50	61.27	57.33	57.39	59.40	70.27	73.55	75.36	66.63	40- 50	94.30	1720	96.8,96.8
60	16.52	16.05	15.65	16.35	17.56	18.05	17.90	17.13	50- 60	30.84	1751	98.5,98.5
70	11.05	11.06	10.67	11.02	11.37	11.49	11.39	11.28	60- 70	13.35	1764	99.3,99.3
80	6.865	6.605	6.381	6.882	7.667	7.829	7.810	7.495	70- 80	9.991	1774	99.8,99.8
90	0.1183	0.1124	0.1180	0.1125	0.2625	0.2940	0.2763	0.2481	80- 90	2.876	1777	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): 1683.8 lm

%lum = 94.7%

%lamp = 94.7%

Conical surface Flux(120deg): 1751.1 lm

%lum = 98.5%

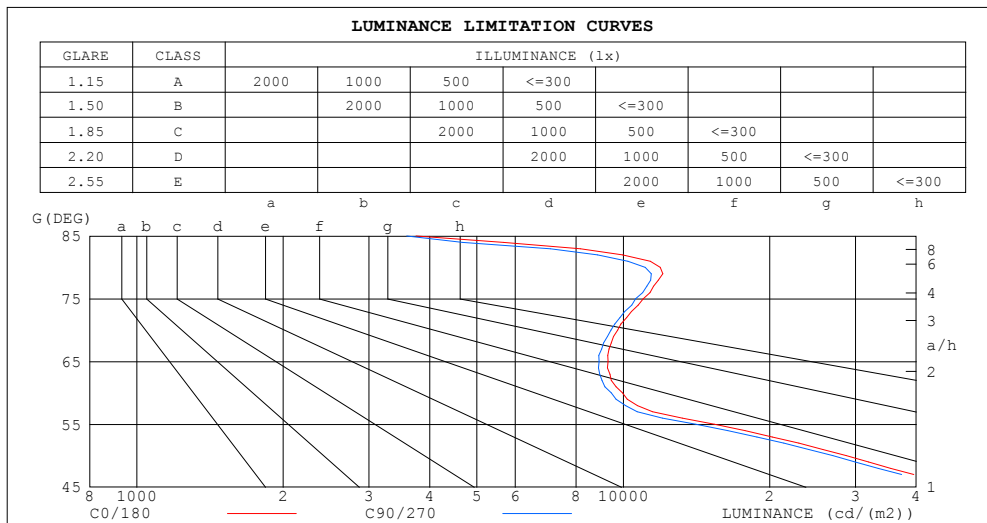
%lamp = 98.5%

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 4000K	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	3748	3586
80	11916	11102
75	10987	10602
70	9740	9427
65	9307	8914
60	9958	9453
55	15391	14095
50	28731	26971
45	48433	45613

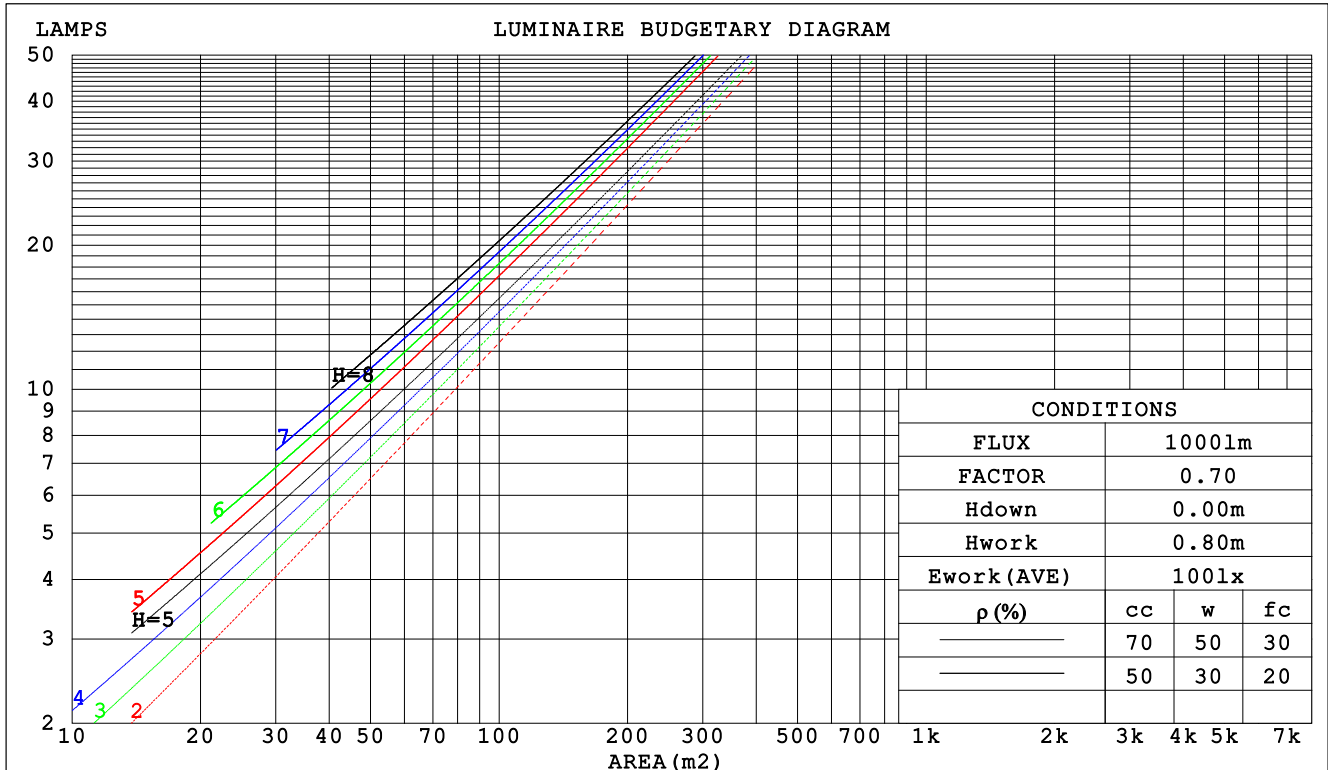
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

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 4000K	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	Coefficients of Utilization(CU)															
	RCR:Room Cavity Ratio															
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	1.09	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	.88
3.0	.98	.93	.90	.96	.92	.89	.94	.90	.87	.91	.89	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.86	.83	.89	.85	.82	.87	.84	.81	.85	.82	.80	.79
5.0	.87	.82	.78	.86	.81	.78	.85	.80	.77	.83	.79	.76	.81	.78	.76	.74
6.0	.83	.77	.73	.82	.77	.73	.81	.76	.73	.79	.75	.72	.78	.74	.72	.70
7.0	.79	.73	.69	.78	.73	.69	.77	.72	.69	.76	.72	.68	.75	.71	.68	.67
8.0	.75	.70	.66	.74	.69	.66	.73	.69	.65	.72	.68	.65	.71	.68	.65	.64
9.0	.72	.66	.63	.71	.66	.63	.70	.66	.62	.69	.65	.62	.69	.65	.62	.61
10.0	.68	.63	.60	.68	.63	.60	.67	.63	.60	.67	.62	.59	.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 4000K	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	.170	.097	.031	.163	.093	.030	.151	.086	.028	.139	.080	.026	.129	.075	.024		
2.0	.161	.088	.027	.155	.085	.026	.145	.080	.025	.135	.076	.024	.126	.071	.022		
3.0	.152	.081	.024	.147	.079	.024	.138	.075	.023	.130	.071	.022	.122	.068	.021		
4.0	.143	.074	.022	.139	.073	.022	.132	.070	.021	.125	.067	.020	.118	.064	.020		
5.0	.136	.069	.020	.132	.068	.020	.126	.065	.019	.120	.063	.019	.114	.061	.018		
6.0	.129	.065	.019	.126	.064	.018	.120	.062	.018	.115	.060	.018	.110	.058	.017		
7.0	.123	.061	.017	.120	.060	.017	.115	.058	.017	.110	.057	.016	.106	.055	.016		
8.0	.117	.057	.016	.115	.057	.016	.110	.055	.016	.106	.054	.016	.102	.052	.015		
9.0	.112	.054	.015	.110	.054	.015	.106	.052	.015	.102	.051	.015	.099	.050	.014		
10.0	.107	.052	.014	.106	.051	.014	.102	.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	.133	.114	.098	.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	.122	.087	.061	.104	.075	.053	.072	.052	.038	.042	.031	.022	.013	.010	.007	
6.0	.114	.077	.051	.098	.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	.032	.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	.003	

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 4000K			WEIGHT:			
SPEC.:CYL-20-CCT-WT					DIM. :			SERIAL No.:1			
MFR. :					SUR.:ø65MM			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	17.2	18.1	17.4	18.2	18.4	16.9	17.8	17.1	18.0	18.1
	3H	17.3	18.1	17.5	18.3	18.5	17.0	17.8	17.3	18.0	18.2
	4H	17.4	18.1	17.7	18.4	18.6	17.1	17.9	17.4	18.1	18.3
	6H	17.5	18.3	17.8	18.5	18.7	17.3	18.0	17.6	18.2	18.5
	8H	17.6	18.3	17.9	18.5	18.8	17.3	18.0	17.6	18.2	18.5
	12H	17.5	18.2	17.9	18.5	18.7	17.3	17.9	17.6	18.2	18.5
4H	2H	17.1	17.8	17.3	18.0	18.3	16.8	17.6	17.1	17.8	18.0
	3H	17.2	17.9	17.6	18.2	18.4	17.0	17.6	17.3	17.9	18.2
	4H	17.5	18.1	17.8	18.4	18.7	17.2	17.8	17.6	18.1	18.4
	6H	17.7	18.3	18.1	18.6	18.9	17.5	18.0	17.9	18.3	18.7
	8H	17.8	18.3	18.2	18.7	19.0	17.5	18.0	17.9	18.4	18.8
	12H	17.8	18.2	18.2	18.6	19.0	17.5	18.0	17.9	18.3	18.7
8H	4H	17.5	18.0	17.9	18.3	18.7	17.2	17.7	17.6	18.1	18.5
	6H	17.9	18.3	18.3	18.7	19.1	17.6	18.0	18.1	18.4	18.8
	8H	18.0	18.3	18.4	18.8	19.2	17.7	18.1	18.2	18.5	18.9
	12H	18.0	18.3	18.4	18.7	19.2	17.7	18.0	18.2	18.4	18.9
12H	4H	17.5	17.9	17.9	18.3	18.7	17.2	17.7	17.6	18.1	18.4
	6H	17.9	18.2	18.3	18.6	19.1	17.6	18.0	18.1	18.4	18.8
	8H	18.0	18.3	18.4	18.7	19.2	17.7	18.0	18.2	18.5	18.9
Variations with the observer position at spacings:											
S = 1.0H		+ 1.6 / - 2.6					+ 1.6 / - 2.6				
1.5H		+ 2.7 / - 2.9					+ 2.6 / - 2.9				
2.0H		+ 3.6 / - 1.8					+ 3.5 / - 1.9				

CIE Pub.117, 1777 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.0$)

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:

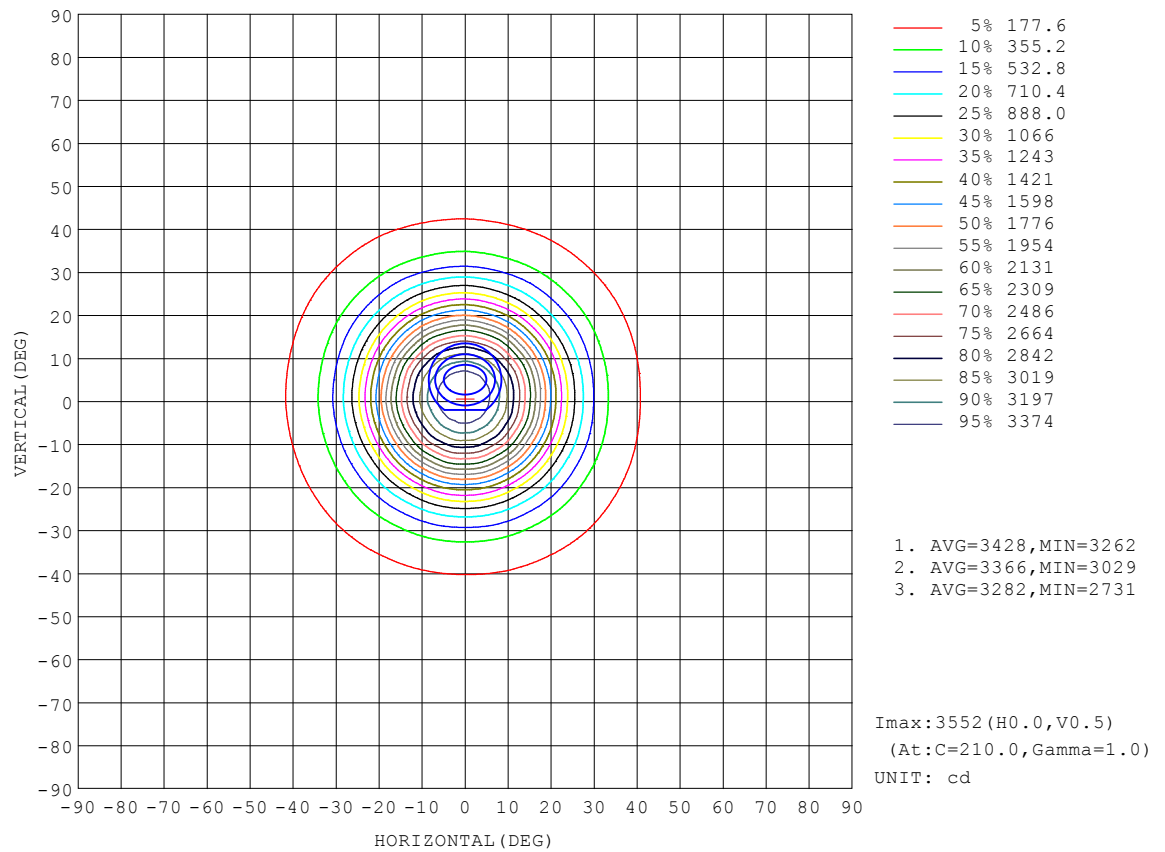
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.620m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

NAME:	TYPE:CRI90 4000K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:

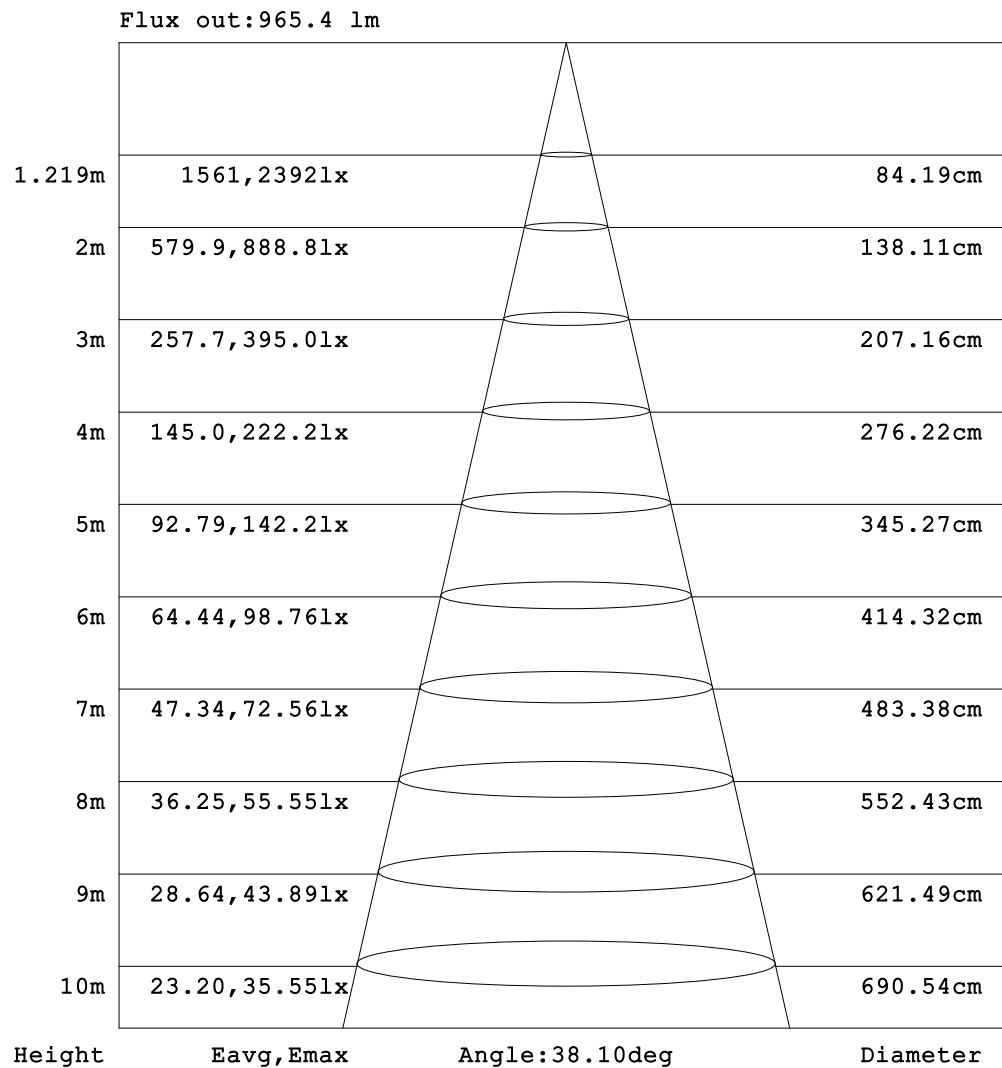


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

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 4000K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:



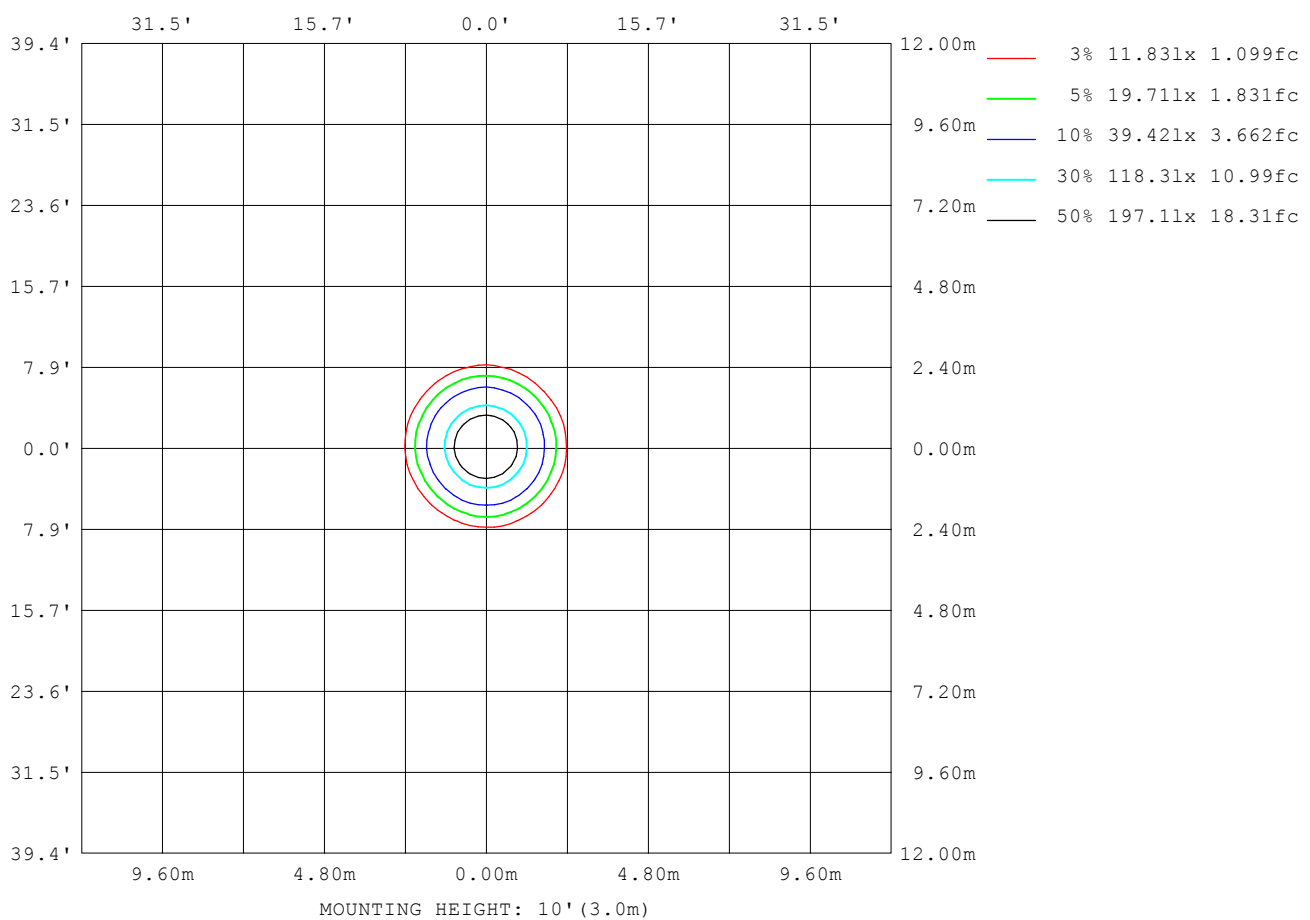
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 4000K	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 4000K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:

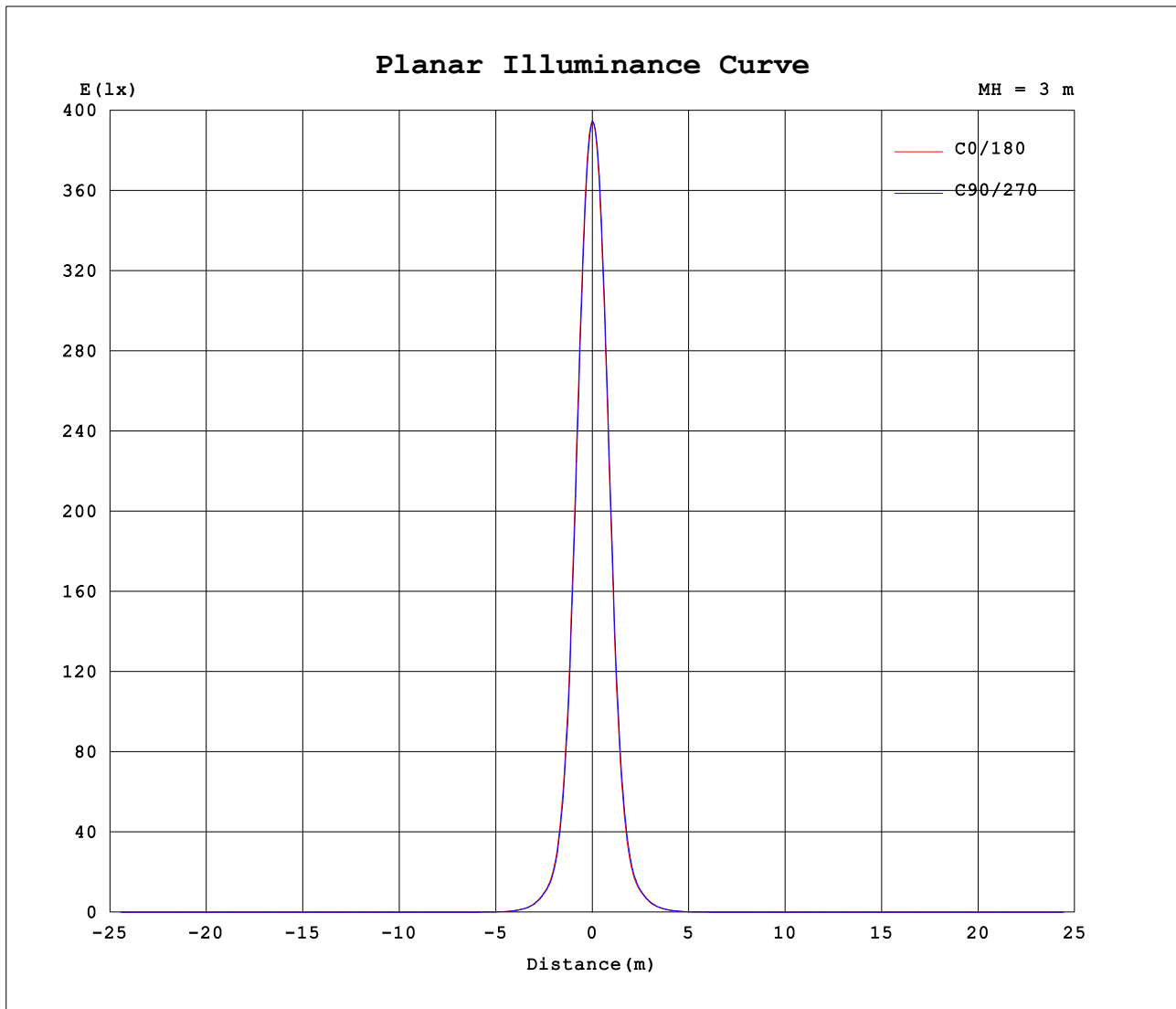
AvgL	cd/m2
L_0~180 (65) av	9481
L_0~180 (75) av	11223
L_0~180 (85) av	5687
L_90~270 (65) av	9322
L_90~270 (75) av	10996
L_90~270 (85) av	6376
L_45 (65) av	9439
L_45 (75) av	11209
L_45 (85) av	5937

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

```