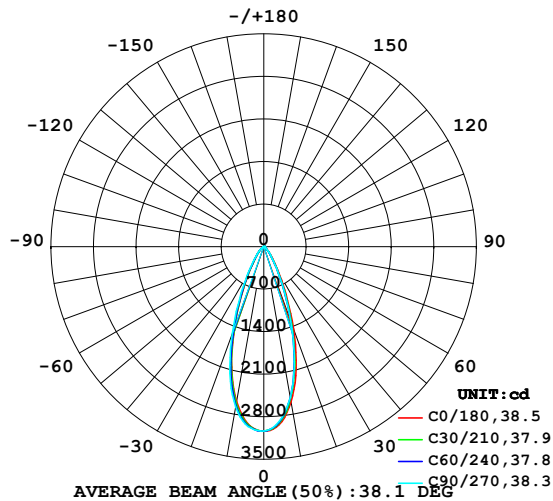


LUMINAIRE PHOTOMETRIC TEST REPORT

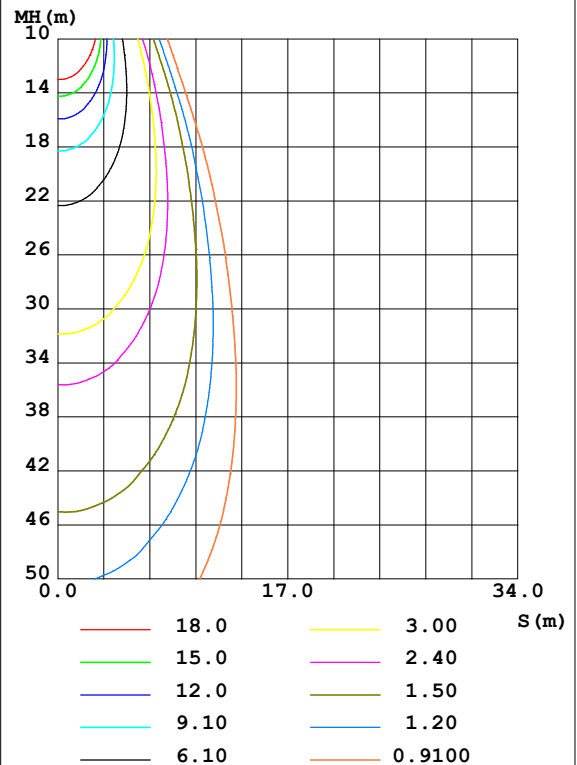
NAME:	TYPE:CRI90 2700K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 80.74 lm/W
MODEL		Imax(cd)	3037	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)	1557.4	η UP,DN(C0-180)		0.0,47.9
NOMINAL FLUX(lm)	1557.42	CIE CLASS	DIRECT	η UP,DN(C180-360)		0.0,52.1
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	2596	2539	2519	2540	2587	2616	2677	2667	0- 10	269.0	269.0	17.3,17.3
20	1435	1325	1307	1386	1410	1430	1517	1574	10- 20	559.3	828.3	53.2,53.2
30	501.0	455.6	442.3	490.9	489.1	502.2	552.5	594.8	20- 30	404.6	1233	79.2,79.2
40	177.7	157.7	164.5	179.3	177.3	171.0	194.3	208.8	30- 40	186.3	1419	91.1,91.1
50	59.38	51.96	52.04	56.80	58.98	59.01	67.29	70.64	40- 50	86.12	1505	96.7,96.7
60	15.45	14.71	14.30	14.89	15.39	15.57	16.21	16.35	50- 60	28.13	1533	98.5,98.5
70	10.26	9.942	9.773	10.38	10.27	10.04	10.42	10.78	60- 70	12.18	1546	99.2,99.2
80	6.705	6.163	5.906	6.361	6.652	6.651	7.145	7.414	70- 80	9.161	1555	99.8,99.8
90	0.1063	0.1036	0.1068	0.1070	0.2385	0.2331	0.2395	0.2430	80- 90	2.638	1557	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): 1472 lm

%lum = 94.5%

%lamp = 94.5%

Conical surface Flux(120deg): 1533.4 lm

%lum = 98.5%

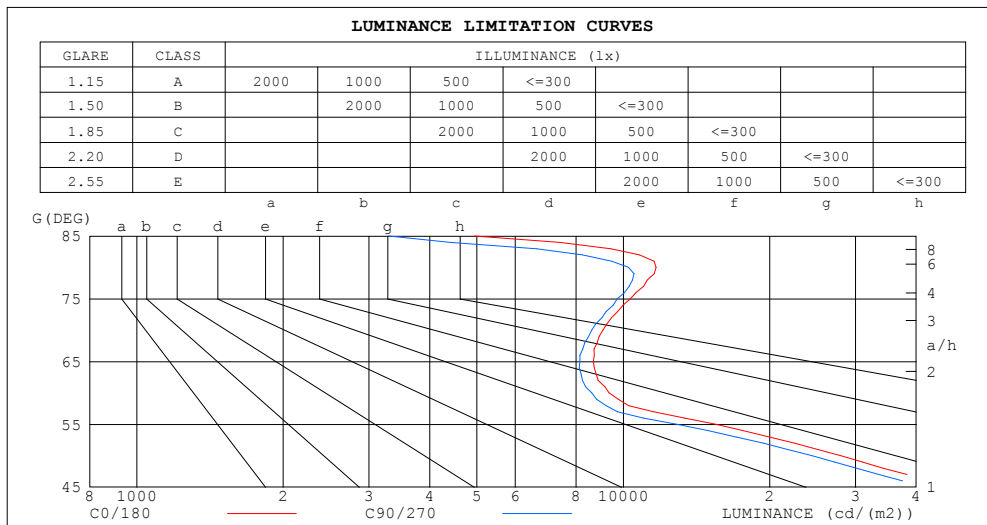
%lamp = 98.5%

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 2700K	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	4937	3296
80	11683	10249
75	10351	9724
70	9081	8611
65	8674	8140
60	9351	8620
55	15487	12872
50	27952	24396
45	46638	41320

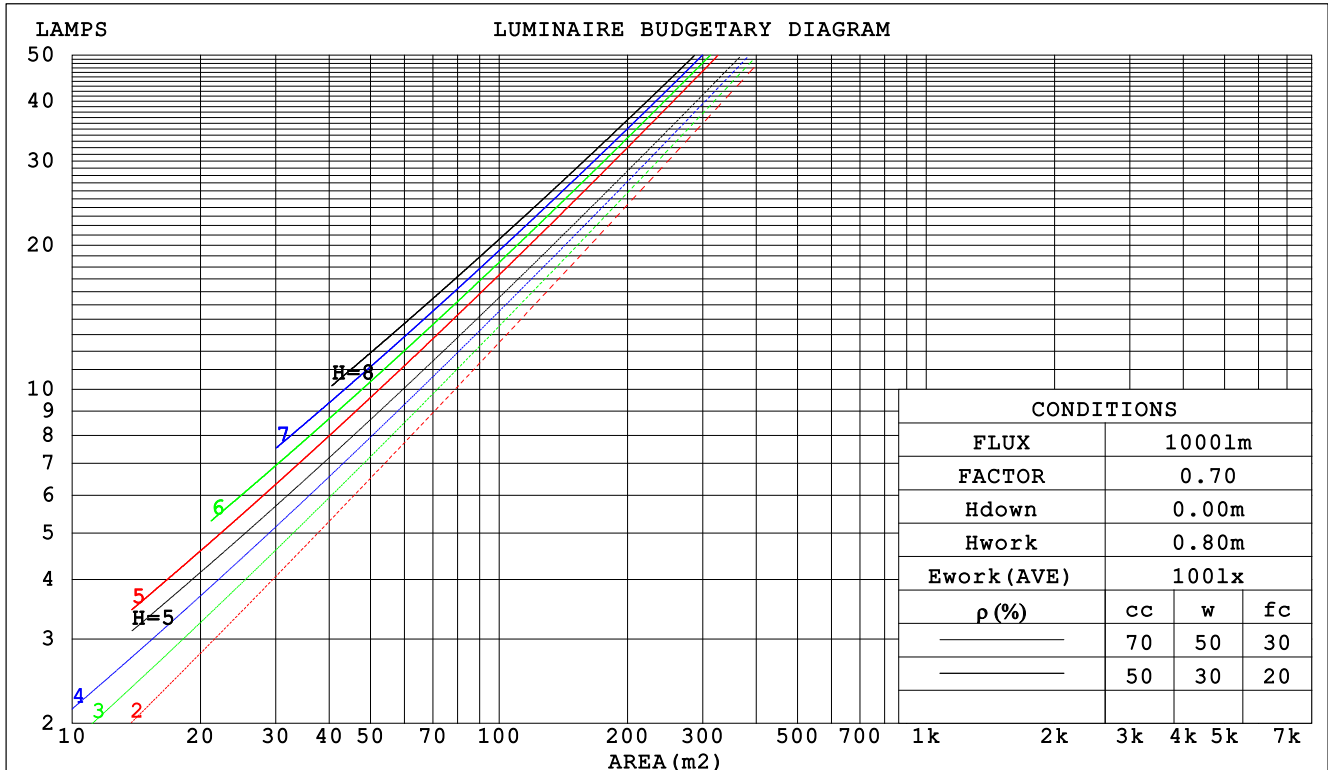
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

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 2700K	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	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	.93	.91	.90	.88
3.0	.98	.93	.89	.96	.92	.89	.94	.90	.87	.91	.88	.86	.89	.87	.84	.83
4.0	.92	.87	.83	.91	.86	.82	.89	.85	.81	.87	.83	.81	.85	.82	.80	.78
5.0	.87	.82	.78	.86	.81	.77	.84	.80	.77	.83	.79	.76	.81	.78	.75	.74
6.0	.82	.77	.73	.82	.76	.73	.80	.76	.72	.79	.75	.72	.77	.74	.71	.70
7.0	.78	.73	.69	.78	.72	.69	.76	.72	.68	.75	.71	.68	.74	.70	.68	.66
8.0	.74	.69	.65	.74	.69	.65	.73	.68	.65	.72	.68	.65	.71	.67	.64	.63
9.0	.71	.66	.62	.71	.65	.62	.70	.65	.62	.69	.65	.62	.68	.64	.61	.60
10.0	.68	.63	.59	.68	.62	.59	.67	.62	.59	.66	.62	.59	.65	.61	.59	.57



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 2700K	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	.171 .097 .031	.165 .094 .030	.152 .087 .028	.141 .081 .026	.130 .075 .024	
2.0	.162 .089 .027	.157 .086 .027	.146 .081 .025	.136 .076 .024	.127 .072 .023	
3.0	.153 .081 .024	.148 .079 .024	.139 .076 .023	.131 .072 .022	.123 .068 .021	
4.0	.145 .075 .022	.141 .074 .022	.133 .071 .021	.126 .068 .020	.119 .065 .020	
5.0	.137 .070 .020	.134 .069 .020	.127 .066 .019	.121 .064 .019	.115 .061 .018	
6.0	.130 .065 .019	.127 .064 .018	.121 .062 .018	.116 .060 .018	.111 .058 .017	
7.0	.124 .061 .017	.121 .060 .017	.116 .059 .017	.111 .057 .017	.107 .056 .016	
8.0	.118 .058 .016	.116 .057 .016	.111 .056 .016	.107 .054 .016	.103 .053 .015	
9.0	.113 .055 .015	.111 .054 .015	.107 .053 .015	.103 .052 .015	.100 .051 .015	
10.0	.108 .052 .014	.107 .051 .014	.103 .050 .014	.099 .049 .014	.096 .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 .086	.058 .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 .114 .091	.122 .098 .079	.084 .068 .055	.048 .040 .033	.016 .013 .011	
4.0	.131 .099 .074	.112 .085 .064	.077 .059 .045	.045 .035 .027	.014 .011 .009	
5.0	.122 .087 .061	.105 .075 .053	.072 .053 .037	.042 .031 .022	.013 .010 .007	
6.0	.114 .077 .051	.098 .067 .045	.068 .047 .032	.039 .028 .019	.013 .009 .006	
7.0	.107 .070 .043	.092 .060 .038	.064 .042 .027	.037 .025 .016	.012 .008 .005	
8.0	.101 .063 .037	.087 .055 .033	.060 .039 .023	.035 .023 .014	.011 .007 .005	
9.0	.096 .058 .032	.083 .050 .028	.057 .035 .020	.033 .021 .012	.011 .007 .004	
10.0	.091 .053 .028	.079 .046 .025	.055 .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 2700K			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	17.6	18.4	17.8	18.6	18.8	17.0	17.9	17.3	18.1	18.2
	3H	17.6	18.4	17.9	18.6	18.8	17.1	17.9	17.4	18.1	18.3
	4H	17.7	18.5	18.0	18.7	18.9	17.2	18.0	17.5	18.2	18.5
	6H	17.9	18.6	18.2	18.9	19.1	17.4	18.1	17.7	18.4	18.6
	8H	18.0	18.7	18.3	18.9	19.2	17.4	18.1	17.7	18.4	18.6
	12H	18.0	18.6	18.3	18.9	19.2	17.4	18.1	17.7	18.3	18.6
4H	2H	17.4	18.2	17.7	18.4	18.6	16.9	17.7	17.2	17.9	18.1
	3H	17.6	18.3	17.9	18.5	18.8	17.1	17.8	17.4	18.1	18.3
	4H	17.8	18.4	18.1	18.7	19.0	17.3	18.0	17.7	18.2	18.6
	6H	18.1	18.6	18.5	19.0	19.3	17.6	18.2	18.0	18.5	18.9
	8H	18.2	18.7	18.6	19.1	19.4	17.7	18.2	18.1	18.6	18.9
	12H	18.2	18.7	18.6	19.0	19.4	17.7	18.1	18.1	18.5	18.9
8H	4H	17.8	18.3	18.2	18.7	19.0	17.4	17.9	17.8	18.2	18.6
	6H	18.2	18.6	18.7	19.0	19.5	17.8	18.2	18.2	18.6	19.0
	8H	18.4	18.8	18.8	19.2	19.6	17.9	18.3	18.4	18.7	19.1
	12H	18.4	18.7	18.9	19.2	19.6	17.9	18.2	18.4	18.6	19.1
12H	4H	17.8	18.3	18.2	18.6	19.0	17.4	17.8	17.8	18.2	18.6
	6H	18.2	18.6	18.7	19.0	19.5	17.8	18.2	18.3	18.6	19.0
	8H	18.4	18.7	18.9	19.2	19.6	17.9	18.2	18.4	18.7	19.2
Variations with the observer position at spacings:											
S = 1.0H		+ 1.7 / - 2.4					+ 1.6 / - 2.5				
1.5H		+ 2.8 / - 2.6					+ 2.6 / - 2.6				
2.0H		+ 3.7 / - 1.8					+ 3.5 / - 1.8				

CIE Pub.117, 1557 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.5)

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:

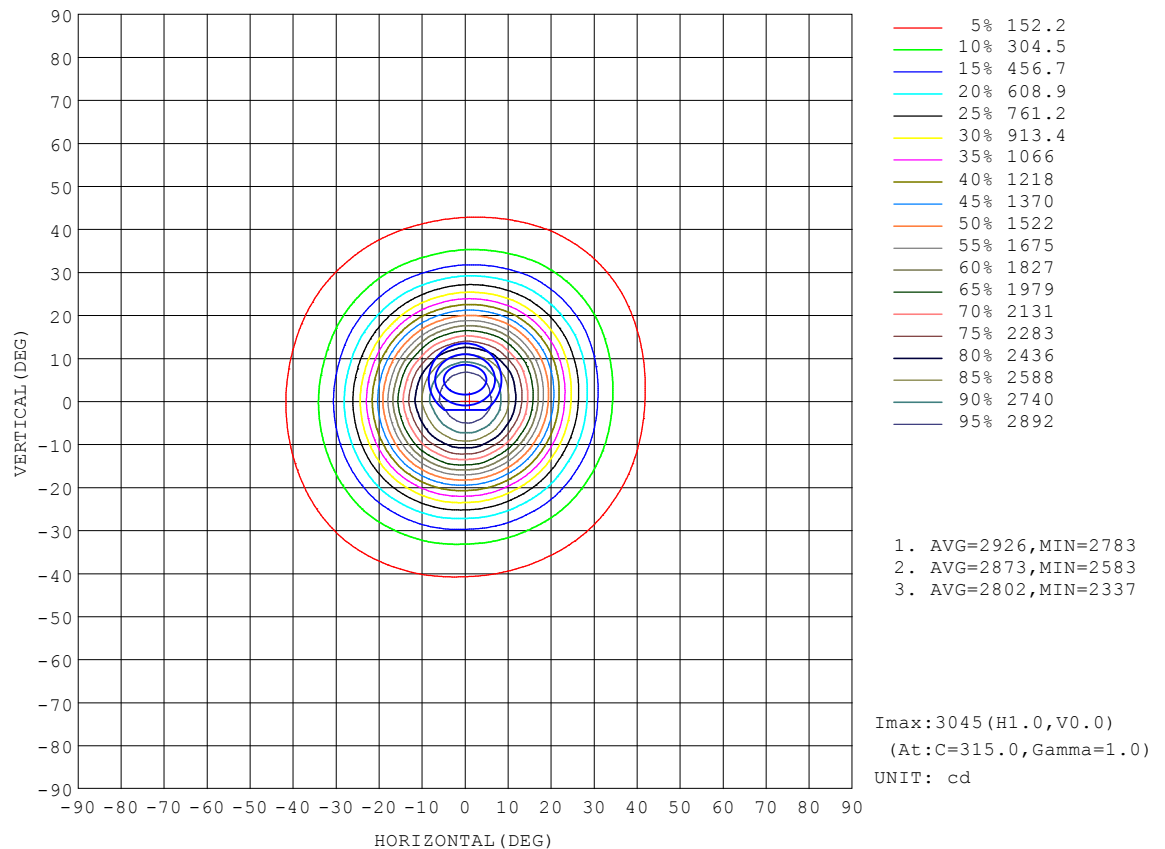
```

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 2700K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:

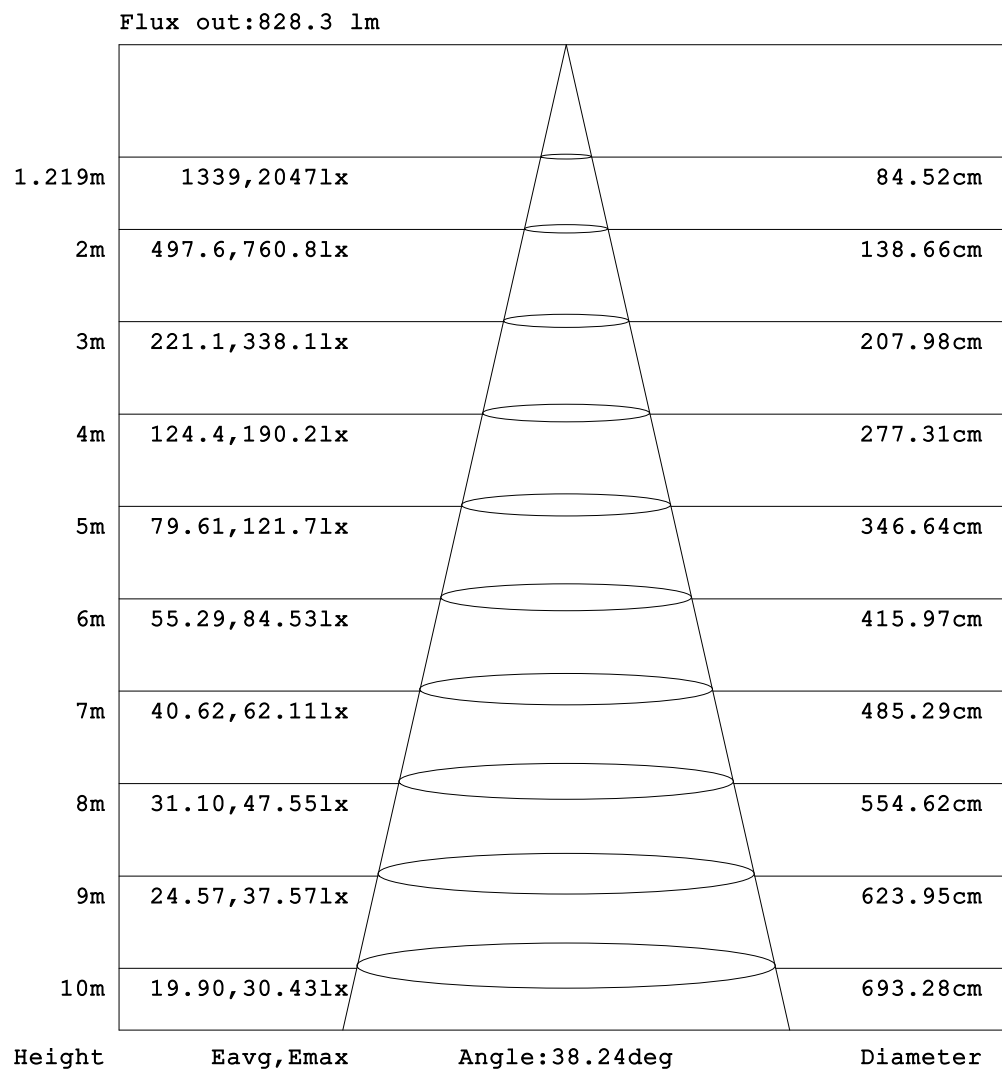


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2025-07-30

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 2700K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:



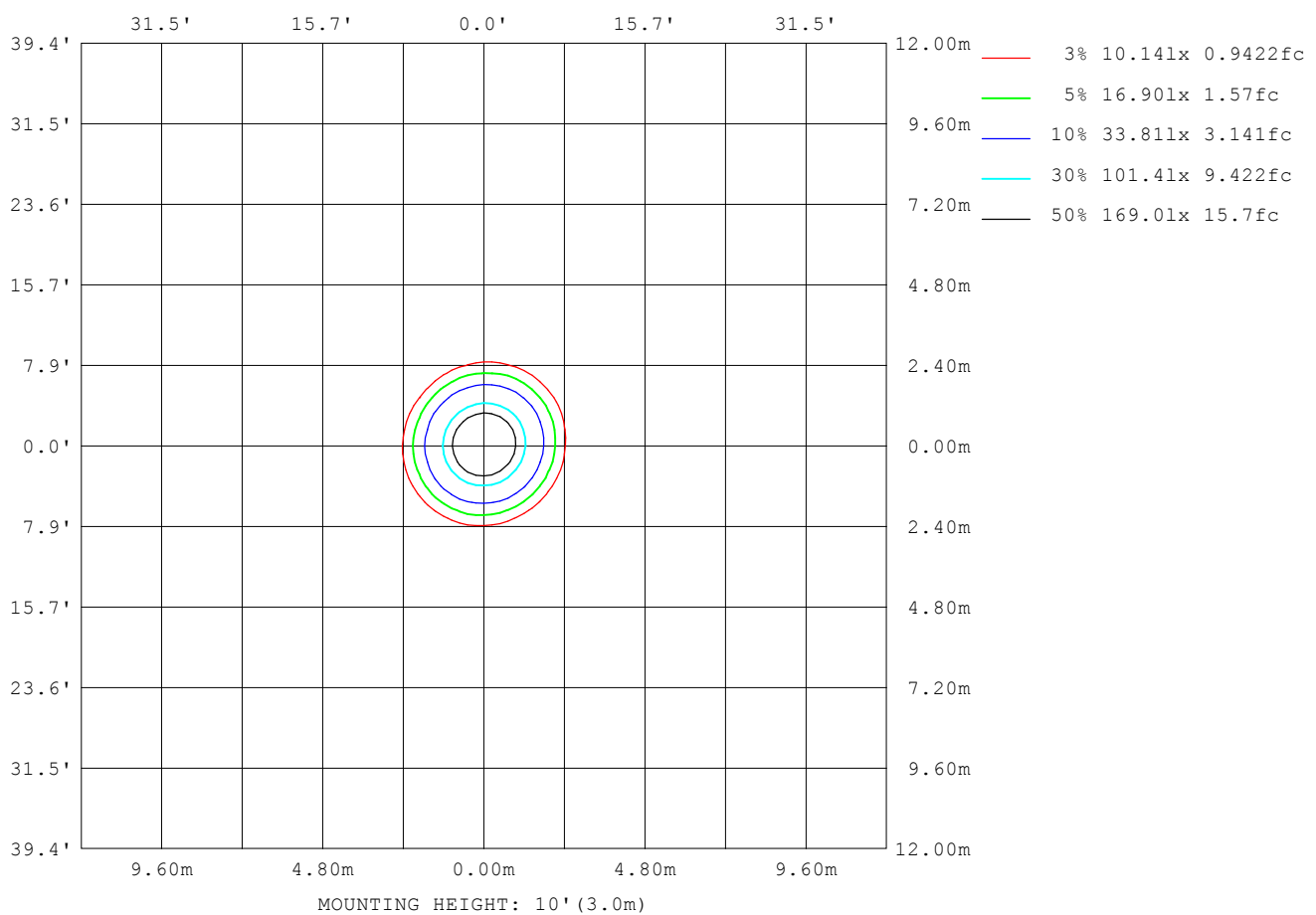
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 2700K	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 2700K	WEIGHT:
SPEC.:CYL-20-CCT-WT	DIM.:	SERIAL No.:1
MFR.:	SUR.:Φ65MM	Shielding Angle:

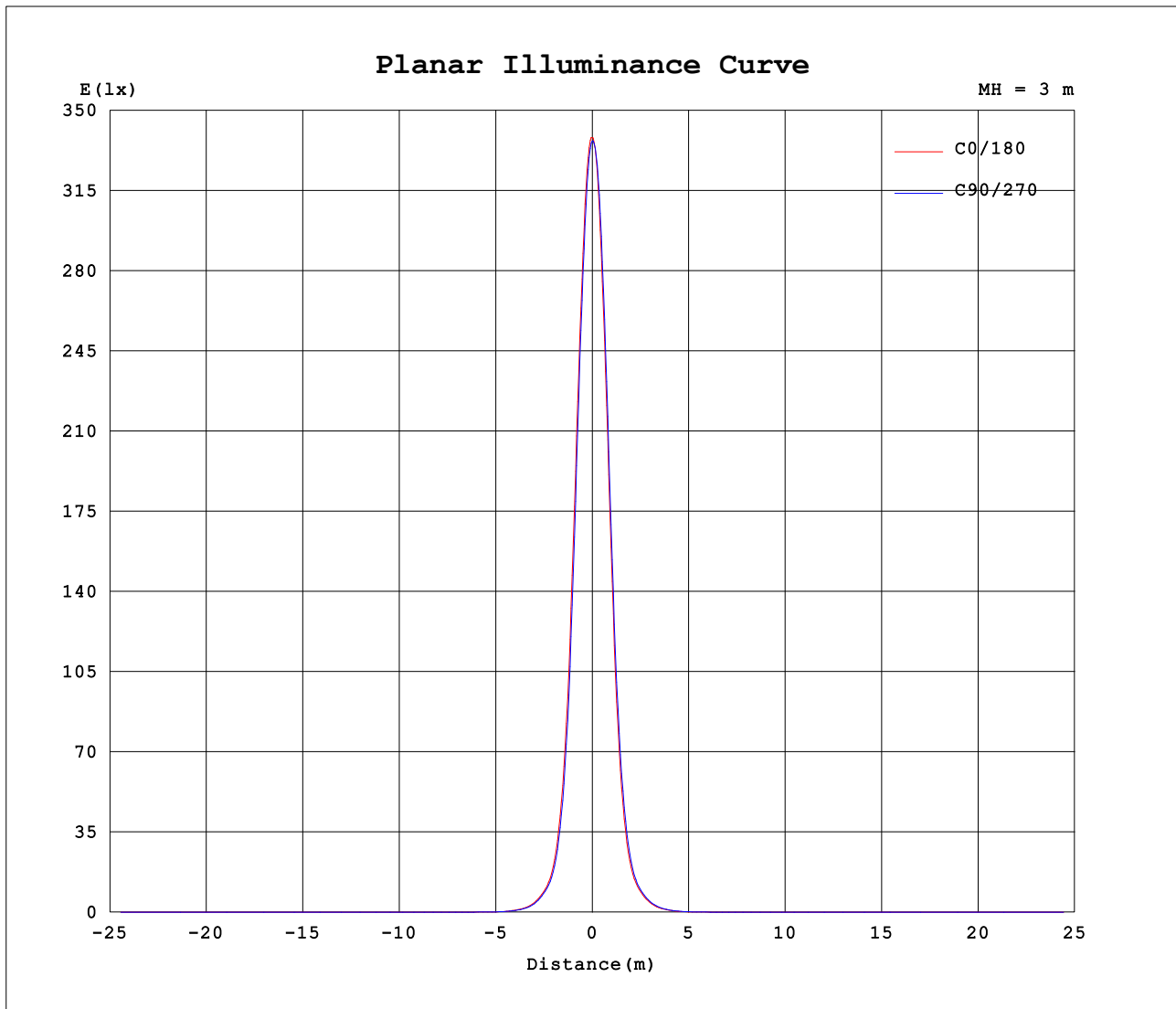
AvgL	cd/m2
L_0~180 (65) av	8635
L_0~180 (75) av	10315
L_0~180 (85) av	4936
L_90~270 (65) av	8510
L_90~270 (75) av	10092
L_90~270 (85) av	5740
L_45 (65) av	8629
L_45 (75) av	10291
L_45 (85) av	5317

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:

```

```

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:

```