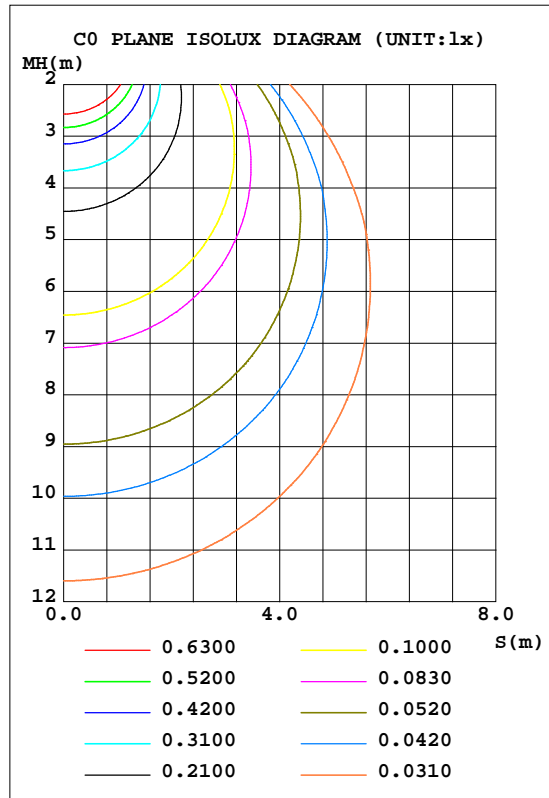
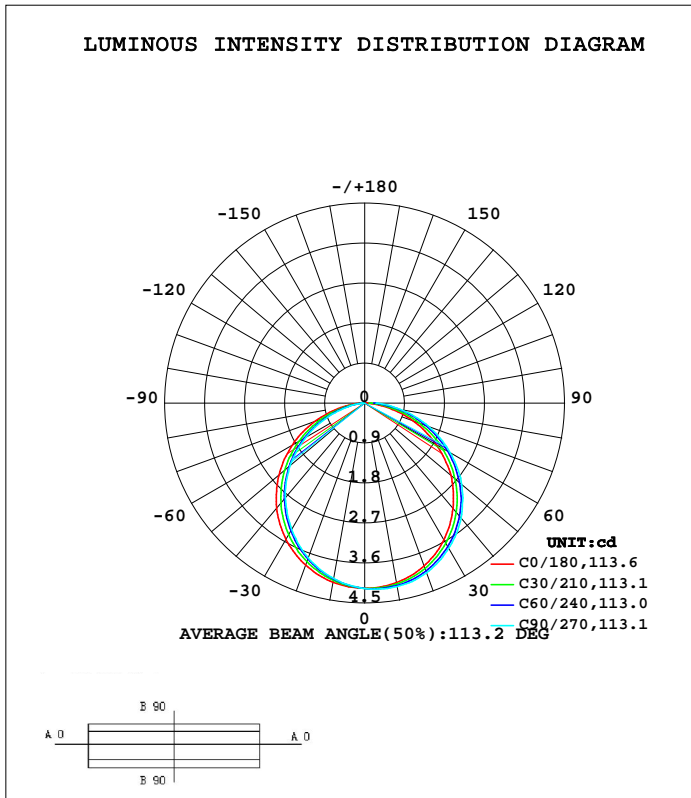


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.033V I:0.2454A P:5.8968W PF:1.0000 Freq:50.00Hz Lamp Flux:12.1166x1 lm		
NAME: UN-BJ-DMX-DC24-5050RGB-60D10S-14.4-1220-C-IP65蓝光	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	

DATA OF LAMP		PHOTOMETRIC DATA			Eff: 2.05 lm/W
MODEL		I <sub>max</sub> (cd)	4.201	S/MH(C0/180)	1.26
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.18
RATED VOLTAGE(V)	--	TOTAL FLUX(lm)	12.117	η UP, DN(C0-180)	0.0,54.6
NOMINAL FLUX(lm)	12.1166	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,45.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	--	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-23

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	4.103	4.155	4.190	4.142	4.095	4.036	4.011	4.021	0- 10	0.3939	0.3939	3.25,3.25
20	3.903	3.995	4.064	3.992	3.883	3.762	3.713	3.761	10- 20	1.130	1.524	12.6,12.6
30	3.560	3.697	3.782	3.703	3.543	3.370	3.288	3.367	20- 30	1.717	3.240	26.7,26.7
40	3.094	3.270	3.380	3.291	3.083	2.868	2.779	2.859	30- 40	2.075	5.316	43.9,43.9
50	2.540	2.726	2.852	2.764	2.519	2.281	2.193	2.264	40- 50	2.163	7.479	61.7,61.7
60	1.861	2.089	2.219	2.141	1.878	1.632	1.516	1.601	50- 60	1.963	9.442	77.9,77.9
70	1.146	1.381	1.526	1.447	1.174	0.9419	0.8363	0.9093	60- 70	1.505	10.95	90.3,90.3
80	0.4426	0.6760	0.8072	0.7488	0.4890	0.3206	0.2453	0.2926	70- 80	0.8753	11.82	97.6,97.6
90	0.0289	0.1580	0.2563	0.2226	0.0674	0.0443	0.0251	0.0337	80- 90	0.2941	12.12	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): 6.4046 lm

%lum = 52.9%  
 %lamp = 52.9%

Conical surface Flux(120deg): 9.4417 lm

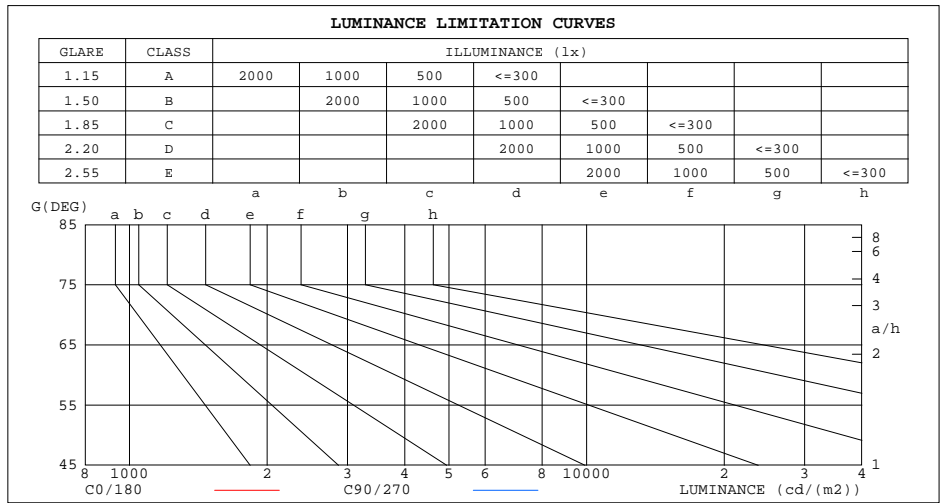
%lum = 77.9%  
 %lamp = 77.9%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-23

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.033V I:0.2454A P:5.8968W PF:1.0000 Freq:50.00Hz Lamp Flux:12.1166x1 lm		
NAME: UN-BJ-DMX-DC24-5050RGB-60D10S-14.4-1220-C-IP65藍光	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	160	470
80	212	387
75	252	377
70	279	372
65	297	370
60	310	370
55	320	370
50	329	370
45	333	368

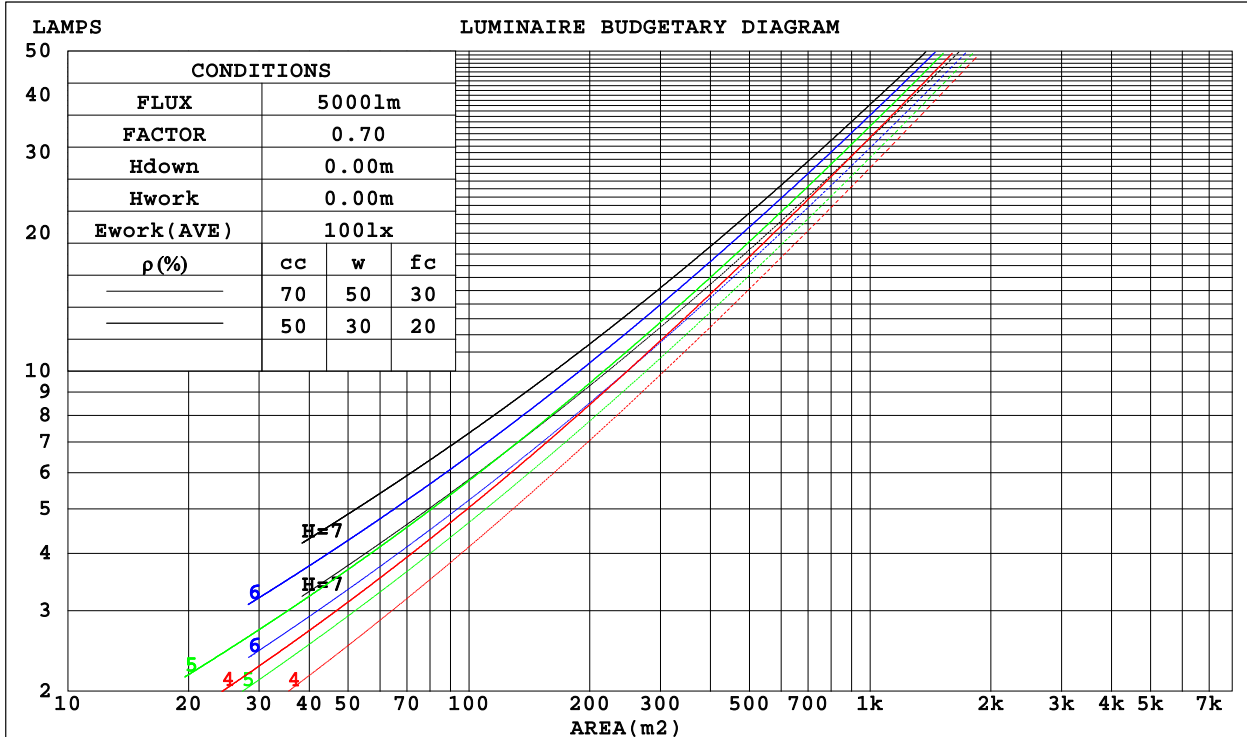
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-23

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.033V I:0.2454A P:5.8968W PF:1.0000 Freq:50.00Hz Lamp Flux:12.1166x1 lm		
NAME: UN-BJ-DMX-DC24-5050RGB-60D10S-14.4-1220-C-IP65蓝光		WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.03	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.74	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.63	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.53	.46	.59	.51	.46	.57	.50	.45	.55	.49	.45	.42
6.0	.56	.47	.40	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.42	.36	.31	.29
9.0	.42	.34	.29	.42	.34	.29	.41	.33	.28	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-23

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:24.033V I:0.2454A P:5.8968W PF:1.0000 Freq:50.00Hz Lamp Flux:12.1166x1 lm		
NAME: UN-BJ-DMX-DC24-5050RGB-60D10S-14.4-1220-C-IP55藍光	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	

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	.317	.180	.057	.310	.177	.056	.297	.170	.054	.284	.164	.053	.273	.158	.051	
2.0	.296	.162	.050	.290	.160	.049	.278	.155	.048	.267	.150	.047	.257	.145	.046	
3.0	.273	.145	.044	.268	.143	.043	.257	.139	.042	.248	.136	.042	.239	.132	.041	
4.0	.251	.131	.038	.247	.129	.038	.237	.126	.038	.229	.123	.037	.221	.120	.037	
5.0	.232	.118	.034	.228	.117	.034	.220	.114	.034	.212	.112	.033	.205	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.105	.030	.197	.102	.030	.191	.100	.030	
7.0	.200	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.027	
8.0	.187	.091	.026	.184	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.021	

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	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.020	.017	.015	
2.0	.173	.132	.097	.148	.114	.084	.101	.079	.059	.058	.046	.034	.019	.015	.011	
3.0	.165	.114	.074	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-23

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.033V I:0.2454A P:5.8968W PF:1.0000 Freq:50.00Hz Lamp Flux:12.1166x1 lm										
NAME: UN-BJ-DMX-DC24-5050RGB-60D10S-14.4-1220-C-IP65藍光						WEIGHT:				
SPEC.:						DIM.:				
MFR.:						SUR.:1000*12mm				
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	9.2	10.7	9.5	10.9	11.1	9.9	11.4	10.1	11.6	11.8
3H	10.7	12.1	11.0	12.3	12.6	11.7	13.1	12.0	13.3	13.6
4H	11.3	12.6	11.6	12.9	13.1	12.5	13.9	12.8	14.1	14.4
6H	11.6	12.9	12.0	13.2	13.5	13.2	14.5	13.5	14.8	15.0
8H	11.7	13.0	12.1	13.2	13.5	13.5	14.7	13.9	15.0	15.3
12H	11.8	13.0	12.1	13.3	13.6	13.8	15.0	14.1	15.3	15.6
4H 2H	10.0	11.3	10.3	11.6	11.8	10.5	11.8	10.8	12.1	12.3
3H	11.7	12.8	12.0	13.1	13.4	12.5	13.7	12.8	14.0	14.3
4H	12.4	13.4	12.7	13.8	14.1	13.5	14.5	13.8	14.9	15.2
6H	12.9	13.8	13.3	14.2	14.5	14.3	15.3	14.7	15.6	16.0
8H	13.0	13.9	13.4	14.3	14.7	14.7	15.6	15.1	16.0	16.4
12H	13.1	13.9	13.5	14.3	14.7	15.1	15.9	15.5	16.3	16.7
8H 4H	12.8	13.7	13.2	14.0	14.4	13.7	14.6	14.2	15.0	15.4
6H	13.5	14.2	13.9	14.6	15.0	14.8	15.5	15.2	16.0	16.4
8H	13.7	14.4	14.2	14.8	15.2	15.3	16.0	15.8	16.4	16.8
12H	13.9	14.5	14.4	14.9	15.4	15.8	16.4	16.3	16.8	17.3
12H 4H	12.8	13.7	13.3	14.1	14.5	13.8	14.6	14.2	15.0	15.4
6H	13.6	14.3	14.1	14.7	15.1	14.9	15.5	15.3	16.0	16.4
8H	13.9	14.5	14.4	14.9	15.4	15.4	16.0	15.9	16.5	16.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.1 / - 0.3				

CIE Pub.117, 12.12 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -15.3)  
 Area: 0.012 m2

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-23

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.033V I:0.2454A P:5.8968W PF:1.0000 Freq:50.00Hz Lamp Flux:12.1166x1 lm		
NAME: UN-BJ-DMX-DC24-5050RGB-60D10S-14.4-1220-C-IP55藍光	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	

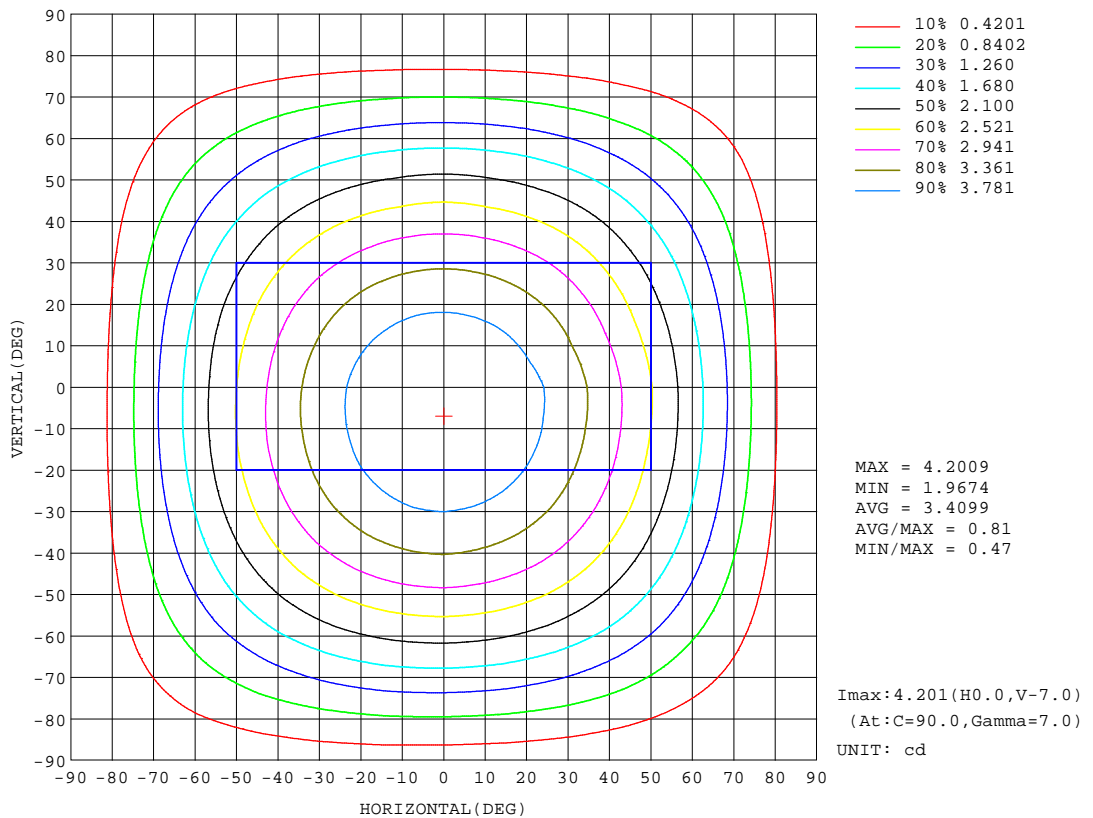
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	98	91	84	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-23

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:24.033V I:0.2454A P:5.8968W PF:1.0000 Freq:50.00Hz Lamp Flux:12.1166x1 lm		
NAME: UN-BJ-DMX-DC24-5050RGB-60D10S-14.4-1220-C-IP55蓝光	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-23

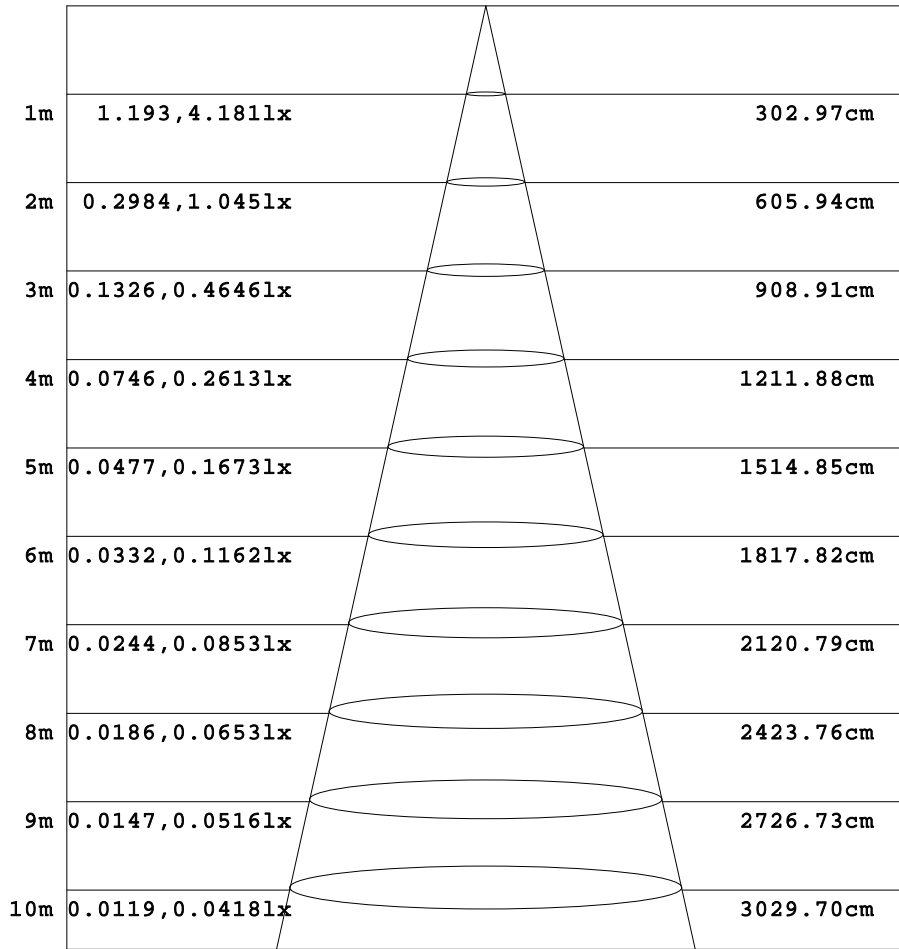
γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:



AAI Figure

Test:U:24.033V I:0.2454A P:5.8968W PF:1.0000 Freq:50.00Hz Lamp Flux:12.1166x1 lm		
NAME: UN-BJ-DMX-DC24-5050RGB-60D10S-14.4-1220-C-IP65蓝光	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	

Flux out:8.890 lm



Height Eavg, Emax Angle:113.14deg Diameter

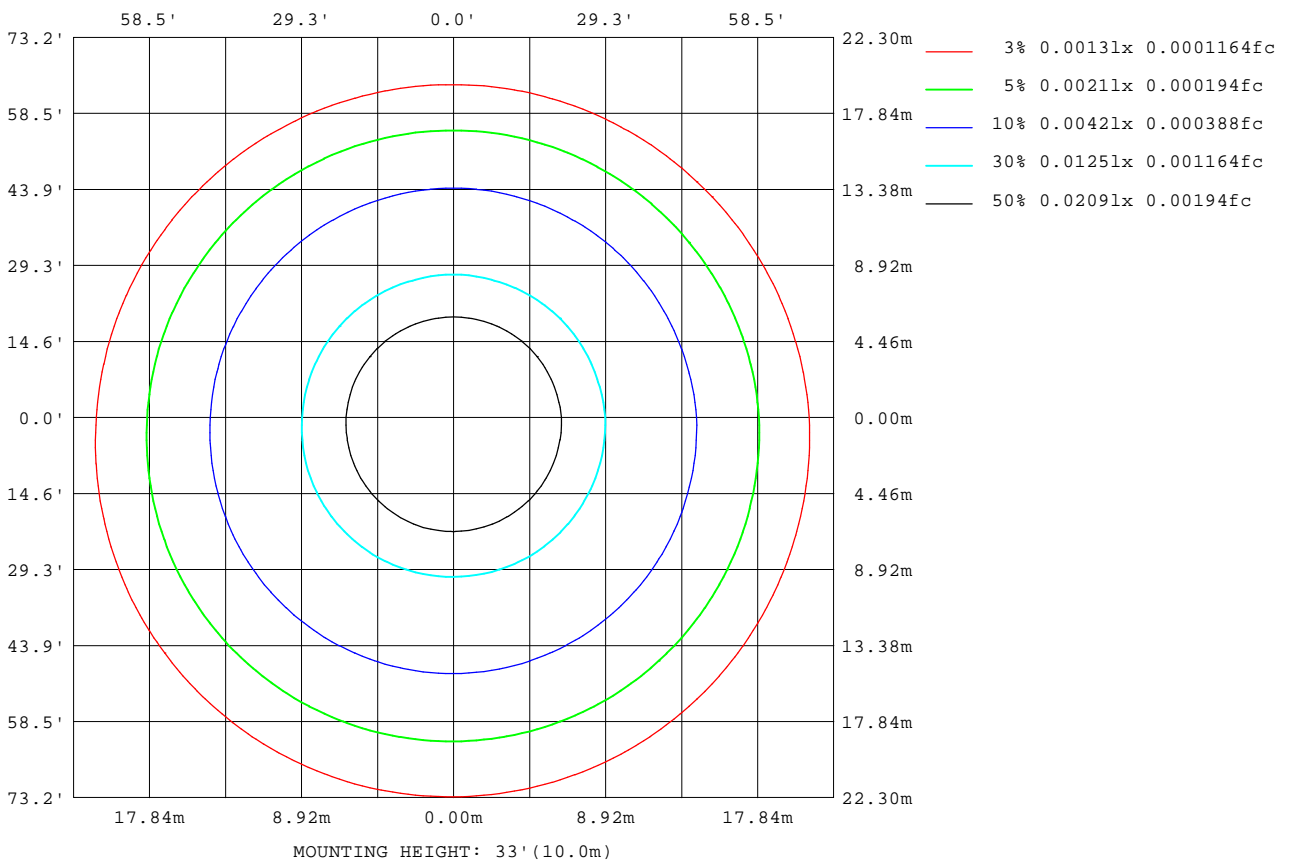
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-23

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

ISOLUX DIAGRAM

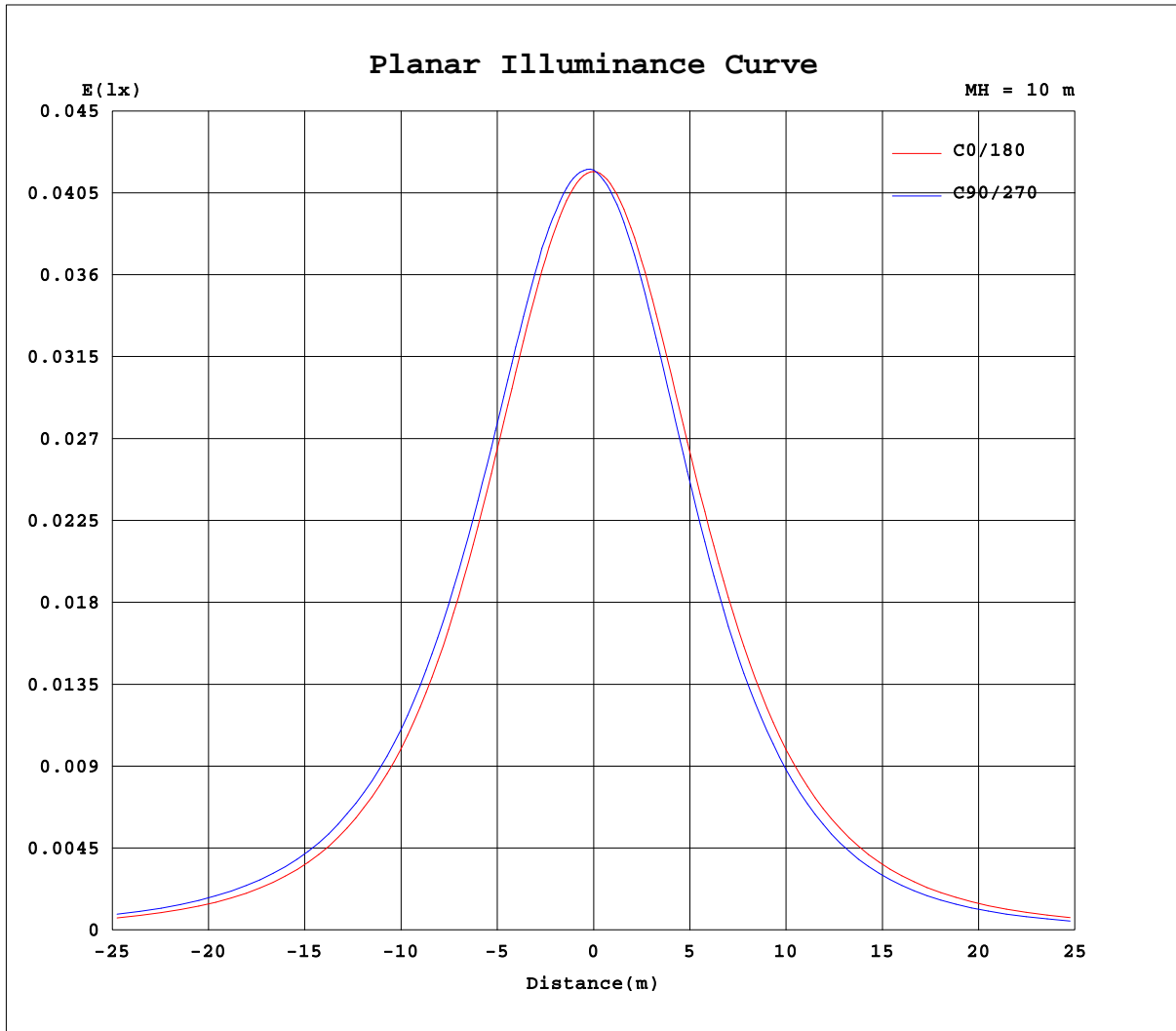
Test:U:24.033V I:0.2454A P:5.8968W PF:1.0000 Freq:50.00Hz Lamp Flux:12.1166x1 lm		
NAME: UN-BJ-DMX-DC24-5050RGB-60D10S-14.4-1220-C-IP65藍光	WEIGHT:	
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*12mm	



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOMI  
 Test Date:2023-04-23

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: XIAOMI  
Test Date: 2023-04-23

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
Humidity: 65.0%  
Test Distance: 9.000m [K=1.0000]  
Remarks:



