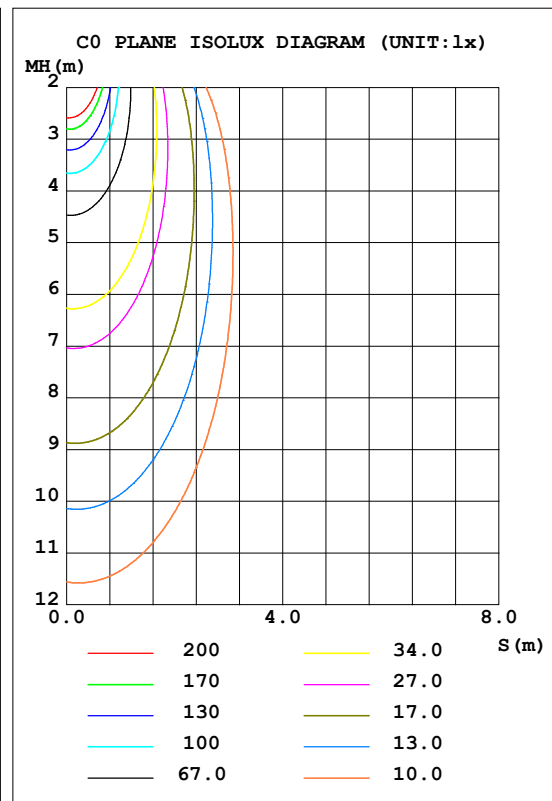
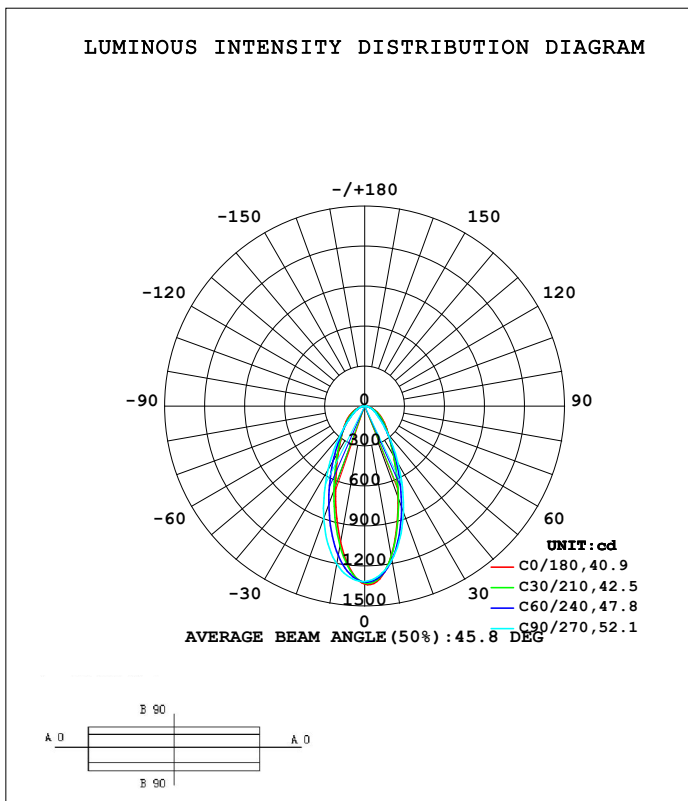


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:1.0334A P:24.798W PF:1.0000 Freq:50.00Hz Lamp Flux:1291.83x1 lm		
NAME: UN-GJ-DC24V-3030-48-24-940-2424-ZC-T601-IP65	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*25mm	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 52.09 lm/W			
MODEL		I <sub>max</sub> (cd)	1341	S/MH (C0/180)	0.60
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	0.81
RATED VOLTAGE (V)	--	TOTAL FLUX (lm)	1291.8	<input checked="" type="checkbox"/> UP, DN (C0-180)	0.0,49.3
NOMINAL FLUX (lm)	1291.83	CIE CLASS	DIRECT	<input checked="" type="checkbox"/> UP, DN (C180-360)	0.0,50.7
LAMPS INSIDE	1	<input checked="" type="checkbox"/> up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	--	<input checked="" type="checkbox"/> down (%)	100.0	CIBSE SHR MAX	0.80



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: XIAOXIN  
 Test Date: 2023-03-18

Range: 0 - 90DEG  
 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:

<input checked="" type="checkbox"/>	C0	C45	C90	C135	C180	C225	C270	C315	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> zone	<input checked="" type="checkbox"/> total	%lum, lamp
10	1146	1161	1174	1068	1040	1099	1205	1203	0- 10	116.8	116.8	9.04,9.04
20	732.4	774.4	851.3	700.7	643.5	724.1	899.6	836.8	10- 20	265.1	382.0	29.6,29.6
30	437.8	457.5	508.4	424.1	394.4	433.1	548.5	497.1	20- 30	276.1	658.1	50.9,50.9
40	279.6	272.6	269.9	260.0	261.4	262.1	291.1	288.5	30- 40	222.9	881.0	68.2,68.2
50	190.3	169.3	142.6	163.1	182.7	162.8	148.9	173.6	40- 50	165.2	1046	81,81
60	125.9	102.4	88.60	97.38	121.4	96.74	87.74	102.5	50- 60	118.2	1164	90.1,90.1
70	70.77	56.97	52.30	53.59	68.04	51.79	50.44	56.37	60- 70	78.65	1243	96.2,96.2
80	25.65	19.57	17.50	17.57	23.55	17.66	16.32	20.50	70- 80	39.67	1283	99.3,99.3
90	0.9033	1.471	1.331	1.102	0.7803	1.113	0.9264	1.490	80- 90	9.137	1292	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): 970.15 lm

%lum = 75.1%  
 %lamp = 75.1%

Conical surface Flux(120deg): 1164.4 lm

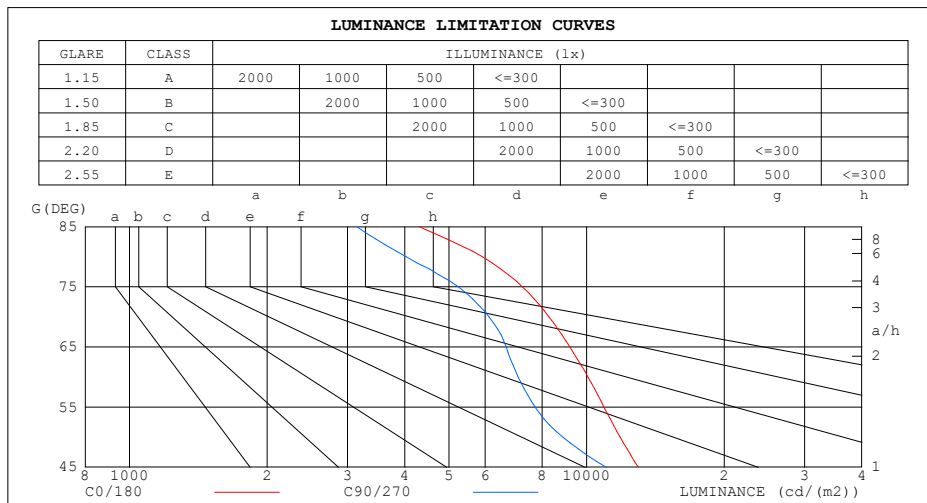
%lum = 90.1%  
 %lamp = 90.1%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOXIN  
 Test Date:2023-03-18

Range: 0 - 90DEG  
 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:23.997V I:1.0334A P:24.798W PF:1.0000 Freq:50.00Hz Lamp Flux:1291.83x1 lm		
NAME: UN-GJ-DC24V-3030-48-24-940-2424-ZC-T601-IP65	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*25mm	



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4294	3145
80	5909	4030
75	7238	5238
70	8277	6116
65	9192	6670
60	10074	7088
55	10915	7716
50	11841	8873
45	12988	11048

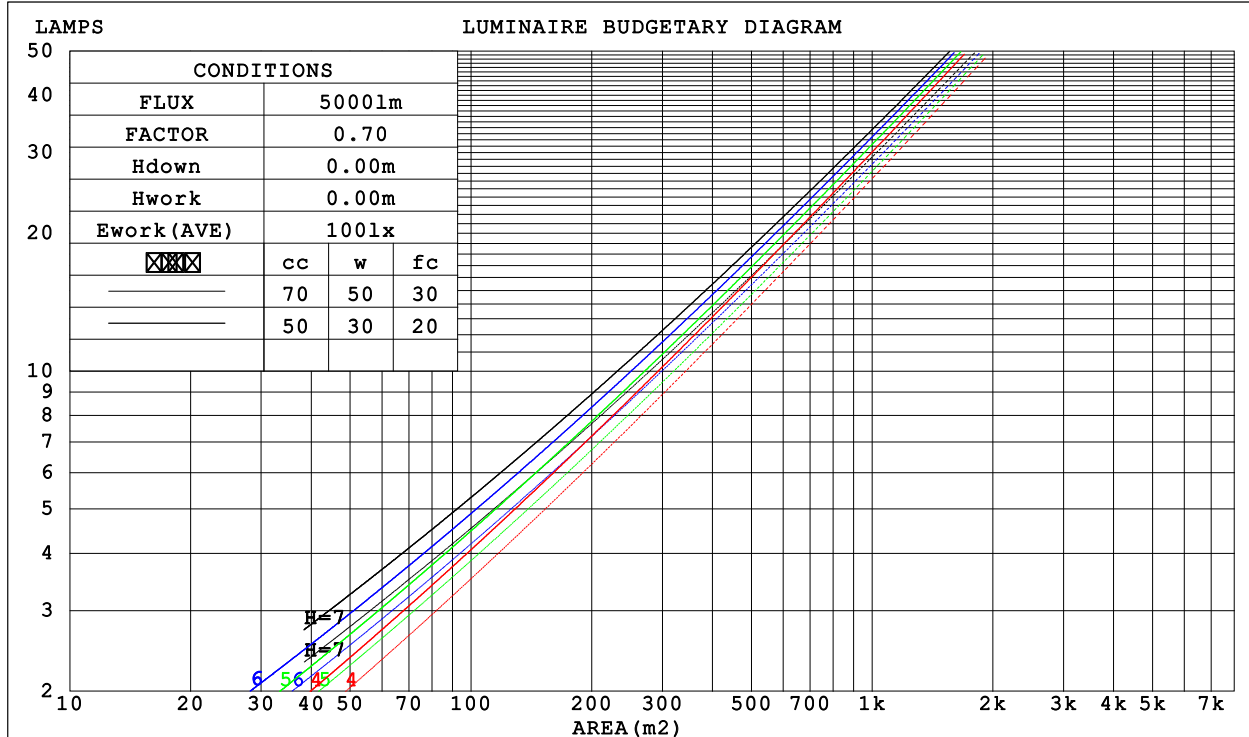
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOXIN  
 Test Date:2023-03-18

Range: 0 - 90DEG  
 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:23.997V I:1.0334A P:24.798W PF:1.0000 Freq:50.00Hz Lamp Flux:1291.83x1 lm		
NAME: UN-GJ-DC24V-3030-48-24-940-2424-ZC-T601-IP65	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*25mm	

<input checked="" type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input checked="" type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input checked="" type="checkbox"/> 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	1.08	1.04	1.01	1.06	1.03	.00	1.01	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.88	.96	.91	.87	.92	.88	.85	.89	.86	.83	.86	.83	.81	.79
3.0	.89	.82	.77	.87	.81	.76	.84	.79	.75	.82	.77	.74	.79	.76	.73	.71
4.0	.81	.74	.69	.80	.73	.68	.77	.72	.67	.75	.70	.66	.73	.69	.66	.64
5.0	.74	.67	.62	.73	.67	.62	.72	.66	.61	.70	.64	.60	.68	.63	.60	.58
6.0	.69	.62	.56	.68	.61	.56	.66	.60	.56	.65	.59	.55	.63	.59	.55	.53
7.0	.64	.57	.52	.63	.56	.52	.62	.56	.51	.61	.55	.51	.59	.54	.51	.49
8.0	.60	.53	.48	.59	.52	.48	.58	.52	.47	.57	.51	.47	.56	.51	.47	.45
9.0	.56	.49	.44	.55	.49	.44	.54	.48	.44	.53	.48	.44	.52	.47	.44	.42
10.0	.53	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.41	.50	.45	.41	.39



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOXIN  
 Test Date:2023-03-18

Range: 0 - 90DEG  
 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:23.997V I:1.0334A P:24.798W PF:1.0000 Freq:50.00Hz Lamp Flux:1291.83x1 lm		
NAME: UN-GJ-DC24V-3030-48-24-940-2424-ZC-T601-IP65	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*25mm	

<input checked="" type="checkbox"/> C	80%			70%			50%			30%			10%			0
<input checked="" type="checkbox"/> W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input checked="" type="checkbox"/> C	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.236	.134	.042	.229	.131	.041	.216	.124	.040	.204	.118	.038	.193	.112	.036	
2.0	.225	.123	.038	.219	.121	.037	.208	.116	.036	.198	.111	.035	.188	.106	.034	
3.0	.211	.112	.034	.206	.110	.033	.196	.106	.032	.187	.103	.031	.179	.099	.031	
4.0	.198	.103	.030	.193	.101	.030	.185	.098	.029	.177	.095	.029	.170	.092	.028	
5.0	.185	.094	.027	.181	.093	.027	.174	.090	.027	.167	.088	.026	.160	.086	.026	
6.0	.174	.087	.025	.170	.086	.025	.164	.084	.024	.158	.082	.024	.152	.080	.024	
7.0	.163	.081	.023	.160	.080	.023	.155	.078	.023	.149	.076	.022	.144	.075	.022	
8.0	.154	.075	.021	.151	.075	.021	.146	.073	.021	.141	.072	.021	.137	.070	.020	
9.0	.146	.071	.020	.143	.070	.020	.139	.069	.019	.134	.067	.019	.130	.066	.019	
10.0	.138	.066	.018	.136	.066	.018	.132	.065	.018	.128	.064	.018	.124	.062	.018	

<input checked="" type="checkbox"/> C	80%			70%			50%			30%			10%			0
<input checked="" type="checkbox"/> W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input checked="" type="checkbox"/> C	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	.175	.157	.140	.150	.135	.121	.103	.093	.083	.059	.054	.049	.019	.017	.016	
2.0	.163	.132	.106	.140	.114	.092	.096	.079	.064	.055	.046	.038	.018	.015	.012	
3.0	.153	.114	.083	.131	.098	.072	.090	.068	.050	.052	.040	.030	.017	.013	.010	
4.0	.144	.100	.066	.124	.086	.057	.085	.060	.040	.049	.035	.024	.016	.011	.008	
5.0	.136	.089	.054	.117	.077	.047	.080	.054	.033	.047	.032	.020	.015	.010	.006	
6.0	.129	.080	.045	.111	.069	.039	.076	.048	.028	.044	.028	.016	.014	.009	.005	
7.0	.122	.073	.038	.105	.063	.033	.073	.044	.023	.042	.026	.014	.014	.009	.005	
8.0	.116	.067	.033	.100	.058	.029	.069	.041	.020	.040	.024	.012	.013	.008	.004	
9.0	.110	.062	.029	.095	.053	.025	.066	.038	.018	.038	.022	.011	.012	.007	.003	
10.0	.105	.057	.025	.091	.050	.022	.063	.035	.016	.037	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOXIN  
 Test Date:2023-03-18

Range: 0 - 90DEG  
 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:23.997V I:1.0334A P:24.798W PF:1.0000 Freq:50.00Hz Lamp Flux:1291.83x1 lm										
NAME: UN-GJ-DC24V-3030-48-24-940-2424-ZC-T601-IP65					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:1000*25mm					
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	19.8	21.0	20.0	21.2	21.4	18.5	19.7	18.8	19.9	20.1
3H	21.0	22.1	21.3	22.3	22.5	19.5	20.6	19.8	20.8	21.0
4H	21.4	22.5	21.7	22.7	22.9	19.9	20.9	20.1	21.1	21.4
6H	21.7	22.7	22.0	22.9	23.2	20.0	21.0	20.4	21.3	21.6
8H	21.7	22.7	22.1	23.0	23.2	20.1	21.0	20.4	21.3	21.6
12H	21.8	22.7	22.1	23.0	23.3	20.1	21.0	20.4	21.3	21.6
4H 2H	20.1	21.1	20.4	21.4	21.6	19.0	20.1	19.3	20.3	20.6
3H	21.4	22.4	21.8	22.6	22.9	20.2	21.1	20.5	21.4	21.7
4H	22.0	22.8	22.3	23.1	23.4	20.6	21.5	21.0	21.8	22.1
6H	22.4	23.1	22.7	23.4	23.8	20.9	21.6	21.3	22.0	22.3
8H	22.5	23.1	22.9	23.5	23.9	21.0	21.7	21.4	22.0	22.4
12H	22.5	23.1	22.9	23.5	23.9	21.0	21.6	21.4	22.0	22.4
8H 4H	22.1	22.8	22.5	23.1	23.5	20.8	21.5	21.2	21.9	22.2
6H	22.5	23.1	23.0	23.5	23.9	21.2	21.8	21.6	22.2	22.6
8H	22.7	23.2	23.1	23.6	24.0	21.3	21.8	21.8	22.2	22.7
12H	22.8	23.2	23.2	23.7	24.1	21.4	21.8	21.8	22.3	22.7
12H 4H	22.0	22.7	22.5	23.0	23.4	20.8	21.4	21.2	21.8	22.2
6H	22.5	23.0	23.0	23.4	23.9	21.2	21.7	21.7	22.1	22.6
8H	22.7	23.1	23.2	23.6	24.0	21.4	21.8	21.8	22.2	22.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.4 / - 0.6				
1.5H	+ 0.1 / - 0.2					+ 0.4 / - 0.5				
2.0H	+ 0.5 / - 0.6					+ 0.7 / - 0.6				

CIE Pub.117, 1292 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 0.9)  
 Area: 0.025 m2

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOXIN  
 Test Date:2023-03-18

Range: 0 - 90DEG  
 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:23.997V I:1.0334A P:24.798W PF:1.0000 Freq:50.00Hz Lamp Flux:1291.83x1 lm		
NAME: UN-GJ-DC24V-3030-48-24-940-2424-ZC-T601-IP65	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*25mm	

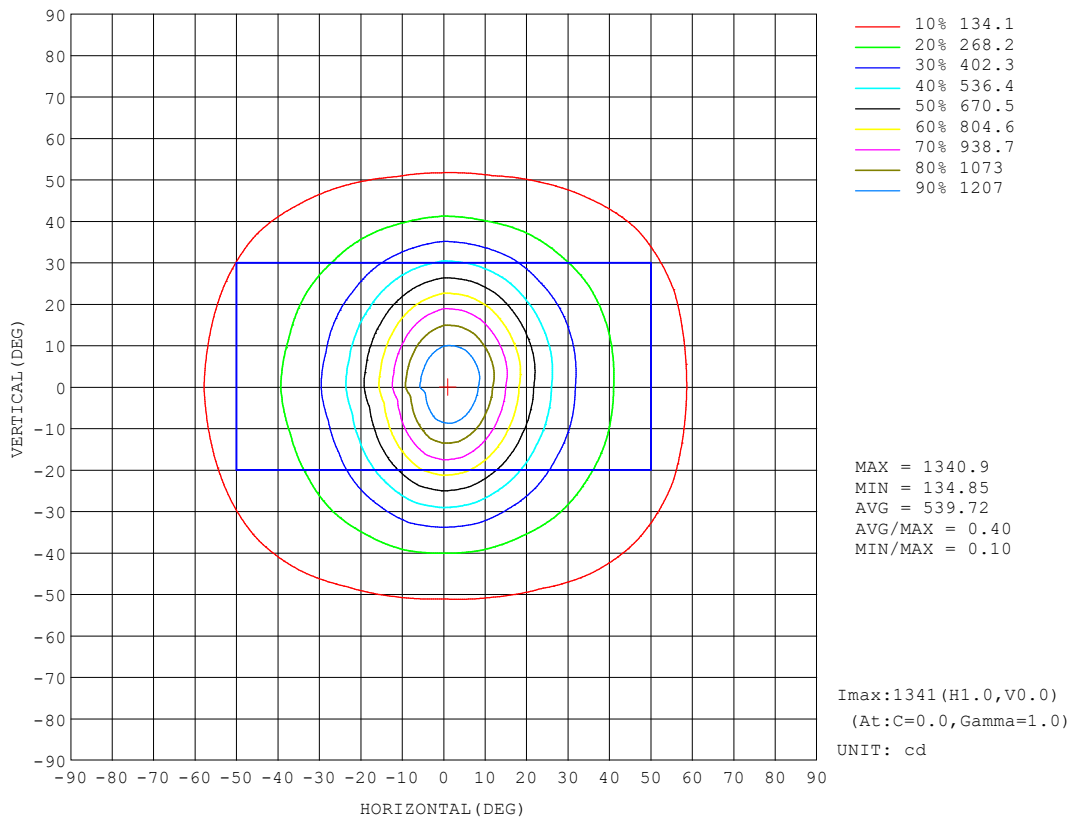
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	63	57	71	62	57	70	62	57	52
0.80	81	72	66	80	72	66	78	71	66	60
1.00	88	79	74	86	79	73	85	79	73	67
1.25	93	85	80	92	85	80	90	83	79	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	91	100	95	90	97	92	89	82
2.50	105	99	95	103	98	94	99	95	92	85
3.00	107	102	98	105	101	97	102	98	95	87
4.00	110	106	103	108	104	101	104	101	99	91
5.00	112	108	106	110	107	104	105	103	101	93
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:XIAOXIN  
 Test Date:2023-03-18

Range: 0 - 90DEG  
 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:23.997V I:1.0334A P:24.798W PF:1.0000 Freq:50.00Hz Lamp Flux:1291.83x1 lm		
NAME: UN-GJ-DC24V-3030-48-24-940-2424-ZC-T601-IP65	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*25mm	



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOXIN  
 Test Date:2023-03-18

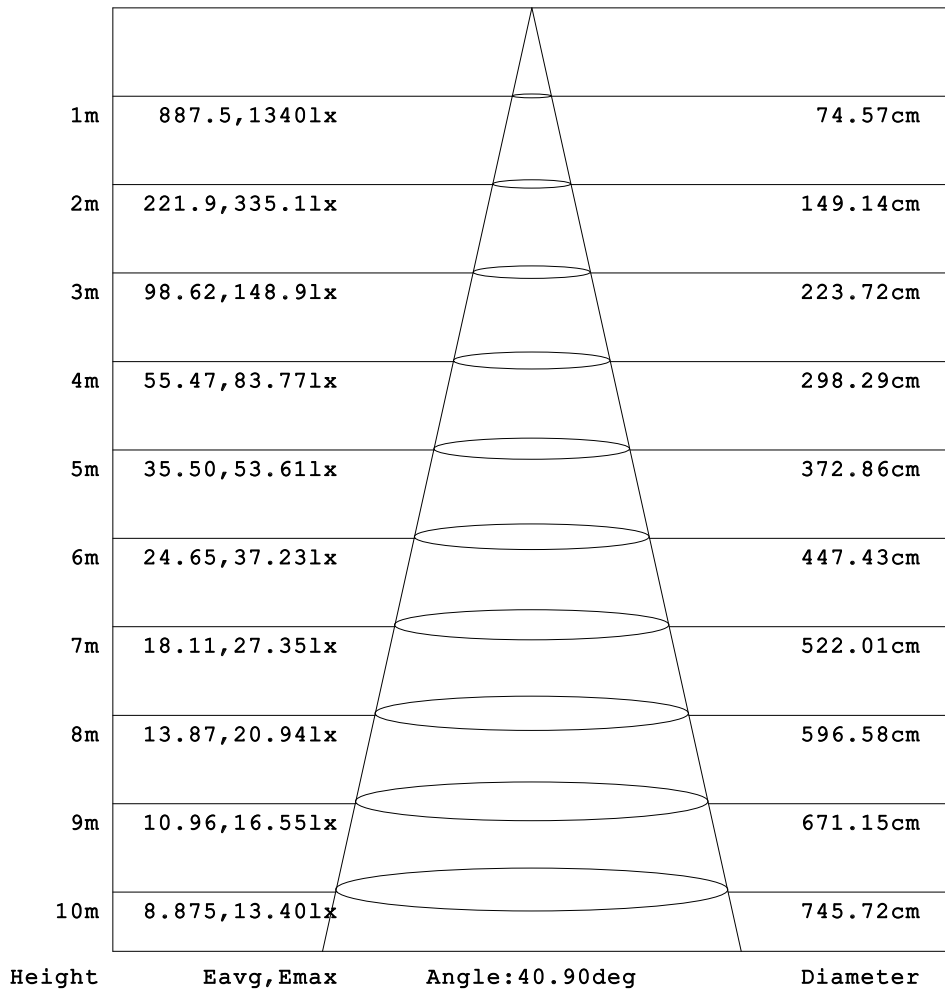
Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-3000H\_V1 SYSTEM V2.00.411  
 Humidity:65.0%  
 Test Distance:9.000m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:23.997V I:1.0334A P:24.798W PF:1.0000 Freq:50.00Hz Lamp Flux:1291.83x1 lm		
NAME: UN-GJ-DC24V-3030-48-24-940-2424-ZC-T601-IP65	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*25mm	

Flux out:410.9 lm



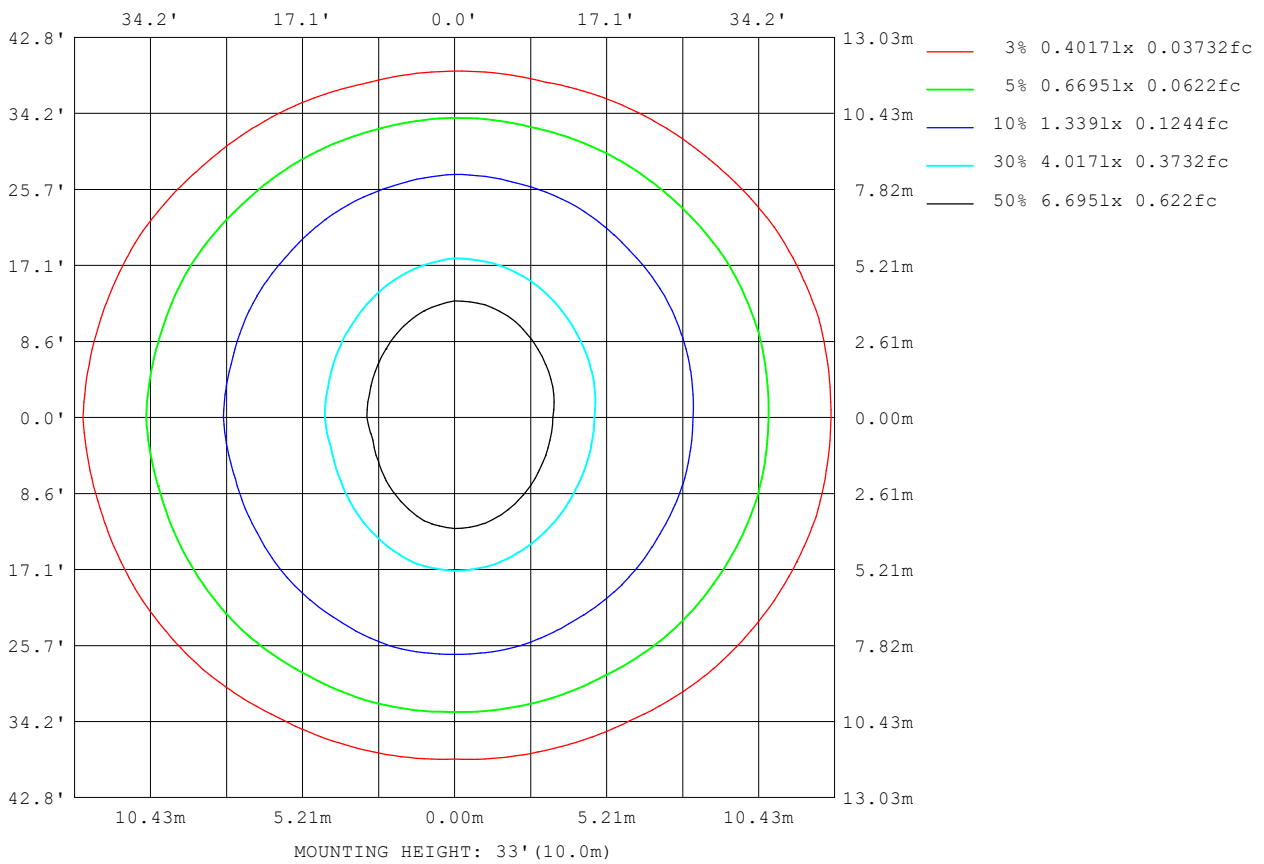
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: XIAOXIN  
 Test Date: 2023-03-18

Range: 0 - 90DEG  
 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

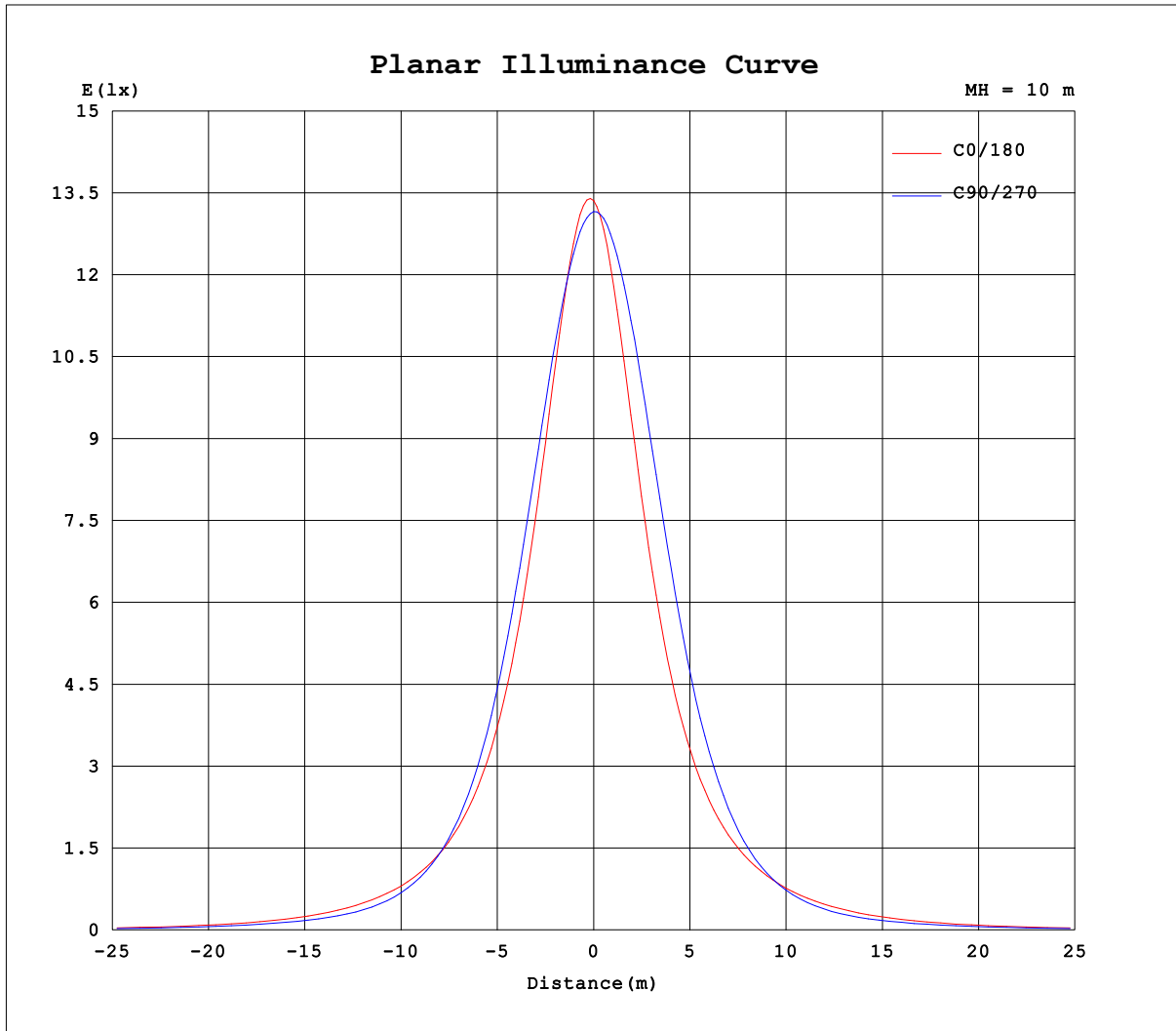
Test:U:23.997V I:1.0334A P:24.798W PF:1.0000 Freq:50.00Hz Lamp Flux:1291.83x1 lm		
NAME: UN-GJ-DC24V-3030-48-24-940-2424-ZC-T601-IP65	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:1000*25mm	



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:XIAOXIN  
 Test Date:2023-03-18

Range: 0 - 90DEG  
 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: XIAOXIN  
Test Date: 2023-03-18

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



