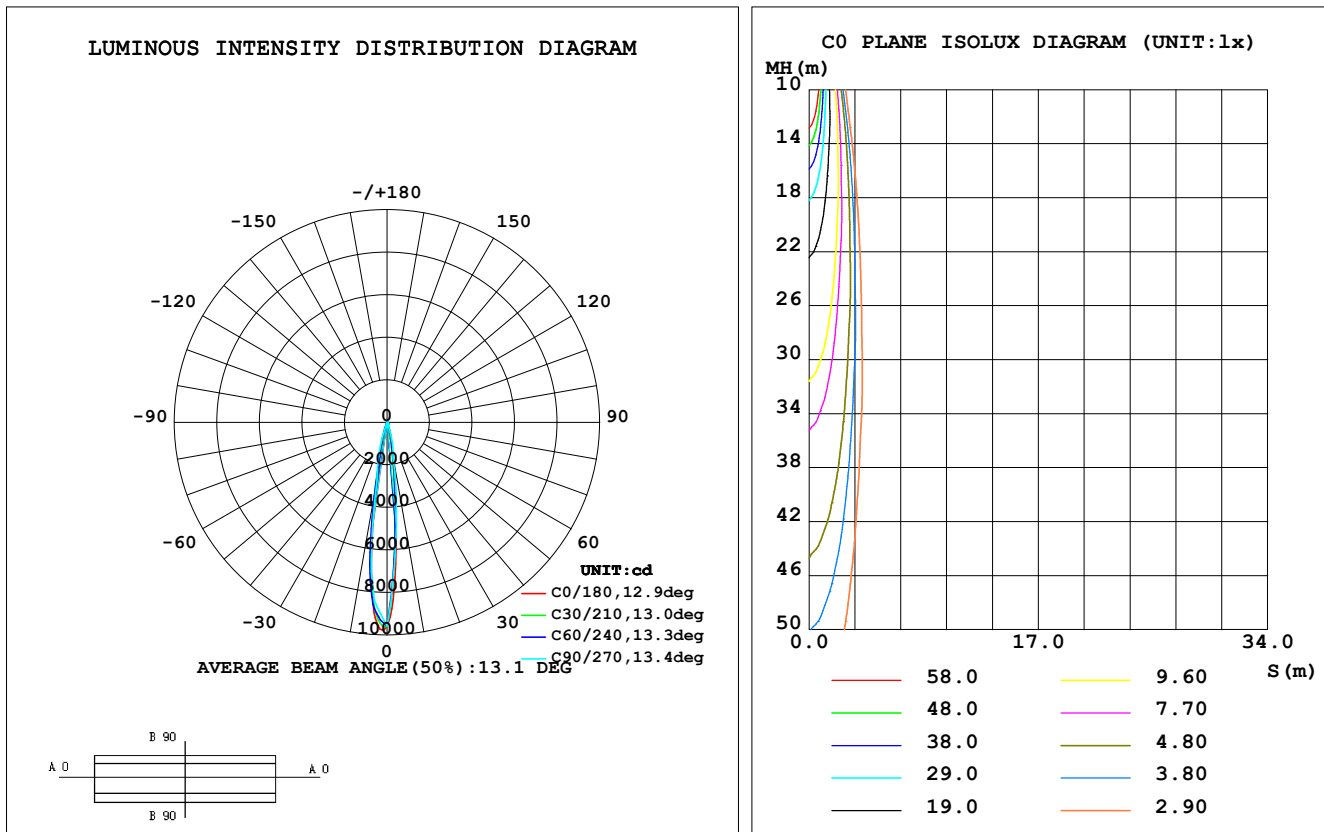


# LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:0.1168V I:0A P:0W PF:0 Lamp Flux:799.683x1 lm		
NAME: M8-HO	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2023111506
MFR.: JEWOO	SUR.:0.05m	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	M8-HO	I <sub>max</sub> (cd)	9779	S/MH (C0/180)	0.26
NOMINAL POWER(W)		LOR(%)	100.0	S/MH (C90/270)	0.27
RATED VOLTAGE (V)	6.45	TOTAL FLUX (lm)	799.68	η UP,DN (C0-180)	0.0,45.2
NOMINAL FLUX (lm)	799.683	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,54.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	6.45	η down (%)	100.0	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:HJL  
Test Date:2023-11-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
Humidity:65.0%  
Test Distance:13.252m [K=1.0000]  
Remarks: DC6.45V

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
5	4861	4350	5014	5970	8042	8217	7750	5919	0- 5	179.8	179.8	22.5,22.5
10	1362	1534	1684	2321	2888	3531	2717	1791	5- 10	277.9	457.7	57.2,57.2
15	336.0	550.4	954.9	829.0	729.1	733.8	1418	372.1	10- 15	150.5	608.3	76.1,76.1
20	113.2	204.2	225.6	334.8	181.3	263.5	118.9	139.4	15- 20	71.39	679.7	85,85
25	49.80	67.77	130.1	111.2	84.52	98.34	79.40	63.05	20- 25	27.99	707.6	88.5,88.5
30	33.95	34.04	34.67	42.49	40.94	46.22	39.93	37.49	25- 30	15.59	723.2	90.4,90.4
35	27.27	25.71	30.77	29.29	31.30	32.22	35.57	28.27	30- 35	10.40	733.6	91.7,91.7
40	23.02	19.91	26.86	21.80	24.97	23.91	31.20	21.75	35- 40	9.257	742.9	92.9,92.9
45	22.00	18.38	23.15	19.58	22.50	19.92	27.05	18.70	40- 45	8.438	751.3	94,94
50	19.49	17.29	20.92	18.19	20.38	17.08	24.63	16.38	45- 50	7.971	759.3	95,95
55	16.18	16.37	18.88	17.04	17.86	14.97	22.41	14.72	50- 55	7.801	767.1	95.9,95.9
60	14.18	14.73	16.84	15.44	15.30	13.75	20.20	13.80	55- 60	7.551	774.7	96.9,96.9
65	12.43	12.81	13.66	13.65	13.11	12.58	16.73	12.90	60- 65	7.096	781.7	97.8,97.8
70	9.845	10.13	10.48	11.04	10.96	11.31	13.26	11.30	65- 70	6.164	787.9	98.5,98.5
75	6.569	6.602	7.922	7.704	7.968	9.922	10.41	9.001	70- 75	4.921	792.8	99.1,99.1
80	3.456	4.255	5.363	5.132	4.667	7.361	7.559	6.501	75- 80	3.555	796.4	99.6,99.6
85	1.044	2.183	2.805	2.715	1.763	4.711	4.710	4.034	80- 85	2.228	798.6	99.9,99.9
90	0	0.1874	0.2459	0.3162	0.0000	2.096	1.862	1.628	85- 90	1.065	799.7	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

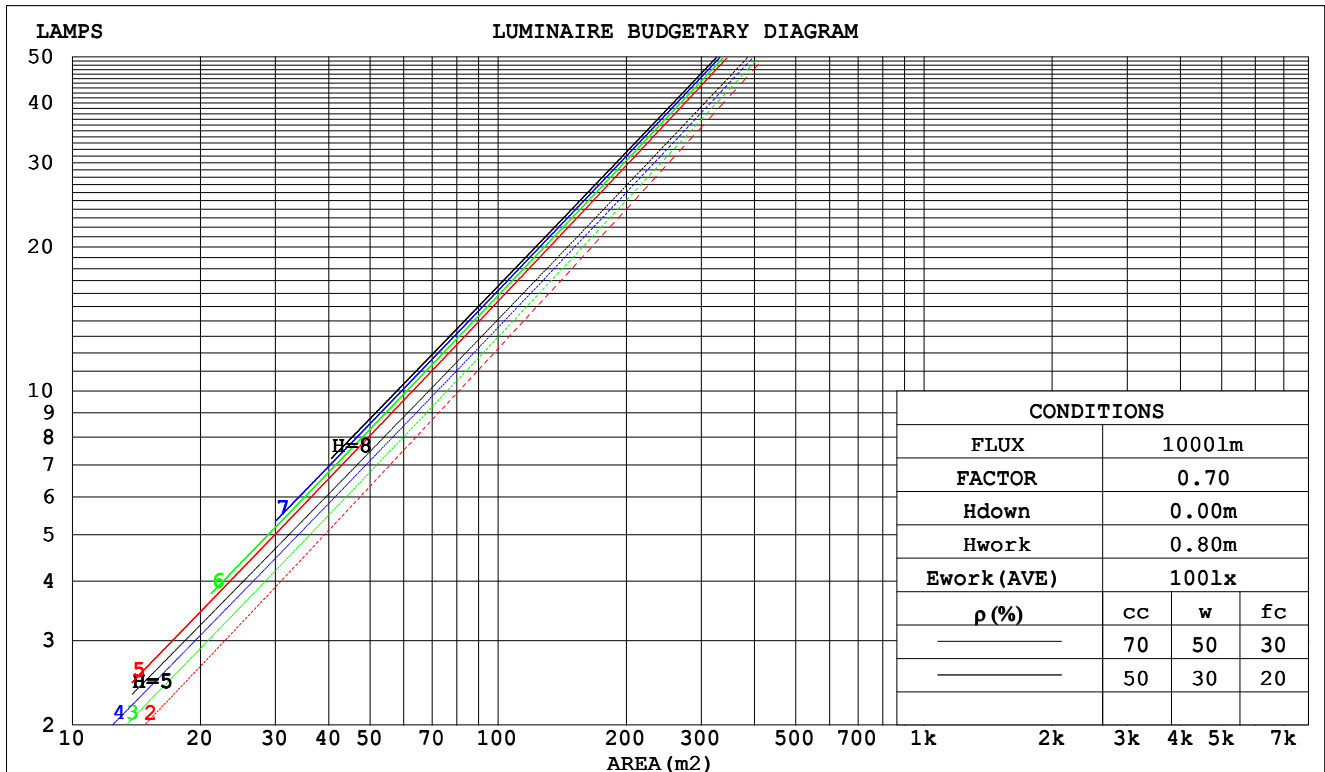
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:HJL  
 Test Date:2023-11-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:13.252m [K=1.0000]  
 Remarks: DC6.45V

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:0.1168V I:0A P:0W PF:0 Lamp Flux:799.683x1 lm		
NAME: M8-HO	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2023111506
MFR.: JEWOO	SUR.:0.05m	PROTECTION ANGLE:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	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	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.08	1.05	1.02	1.06	1.03	1.01	1.03	1.01	.99	.00	.98	.97	.97	.96	.95	.93
3.0	1.03	.00	.97	1.02	.99	.96	.00	.97	.95	.97	.95	.93	.95	.93	.92	.91
4.0	.00	.96	.93	.99	.95	.93	.97	.94	.92	.95	.93	.91	.93	.91	.90	.88
5.0	.97	.93	.90	.96	.92	.90	.94	.91	.89	.93	.90	.88	.92	.89	.88	.87
6.0	.94	.90	.88	.94	.90	.87	.92	.89	.87	.91	.88	.86	.90	.88	.86	.85
7.0	.92	.88	.86	.92	.88	.85	.90	.87	.85	.89	.87	.85	.89	.86	.84	.83
8.0	.90	.86	.84	.90	.86	.84	.89	.86	.83	.88	.85	.83	.87	.85	.83	.82
9.0	.88	.85	.82	.88	.85	.82	.87	.84	.82	.87	.84	.82	.86	.83	.81	.81
10.0	.87	.83	.81	.86	.83	.81	.86	.83	.81	.85	.82	.80	.85	.82	.80	.80



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:HJL  
 Test Date:2023-11-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:13.252m [K=1.0000]  
 Remarks: DC6.45V

## WEC AND CCEC

Test:U:0.1168V I:0A P:0W PF:0 Lamp Flux:799.683x1 lm								
NAME: M8-HO				TYPE:			WEIGHT:	
SPEC.:				DIM.:			SERIAL No.:2023111506	
MFR.: JEWOO				SUR.:0.05m			PROTECTION 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 Coeffcients(WEC)										
0.0																	
1.0	.140	.080	.025	.133	.076	.024	.121	.069	.022	.109	.063	.020	.099	.057	.018		
2.0	.127	.070	.021	.122	.067	.021	.111	.062	.019	.102	.057	.018	.093	.053	.017		
3.0	.116	.062	.018	.112	.060	.018	.103	.056	.017	.095	.052	.016	.088	.049	.015		
4.0	.107	.055	.016	.103	.054	.016	.096	.051	.015	.089	.048	.014	.083	.045	.014		
5.0	.099	.050	.015	.095	.049	.014	.089	.047	.014	.084	.044	.013	.079	.042	.013		
6.0	.092	.046	.013	.089	.045	.013	.084	.043	.012	.079	.041	.012	.075	.039	.012		
7.0	.086	.042	.012	.083	.042	.012	.079	.040	.011	.075	.038	.011	.071	.037	.011		
8.0	.081	.039	.011	.079	.039	.011	.075	.037	.011	.071	.036	.010	.068	.035	.010		
9.0	.076	.037	.010	.074	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.009		
10.0	.072	.034	.010	.070	.034	.009	.067	.033	.009	.065	.032	.009	.062	.031	.009		

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	.169	.158	.148	.144	.135	.127	.099	.093	.088	.057	.054	.051	.018	.017	.017	
2.0	.150	.133	.118	.129	.114	.102	.088	.079	.071	.051	.046	.042	.016	.015	.014	
3.0	.135	.113	.096	.116	.098	.083	.079	.068	.058	.046	.040	.034	.015	.013	.011	
4.0	.122	.098	.080	.104	.085	.069	.072	.059	.049	.042	.034	.029	.013	.011	.009	
5.0	.111	.085	.067	.095	.074	.058	.065	.052	.041	.038	.030	.024	.012	.010	.008	
6.0	.101	.075	.057	.087	.065	.049	.060	.046	.035	.035	.027	.021	.011	.009	.007	
7.0	.093	.067	.049	.080	.058	.042	.055	.041	.030	.032	.024	.018	.010	.008	.006	
8.0	.086	.060	.042	.074	.052	.037	.051	.036	.026	.030	.021	.016	.010	.007	.005	
9.0	.079	.054	.037	.068	.047	.032	.047	.033	.023	.028	.019	.014	.009	.006	.005	
10.0	.074	.049	.032	.064	.043	.028	.044	.030	.020	.026	.018	.012	.008	.006	.004	

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:HJL  
 Test Date:2023-11-15

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:13.252m [K=1.0000]  
 Remarks: DC6.45V

UGR(Unified Glare Rating) Table

Test:U:0.1168V I:0A P:0W PF:0 Lamp Flux:799.683x1 lm											
NAME: M8-HO					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:2023111506			
MFR.: JEWOO					SUR.:0.05m			PROTECTION 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	14.8	15.4	15.0	15.5	15.7	15.6	16.2	15.8	16.3	16.5	
	3H	16.6	17.2	16.9	17.4	17.6	17.4	17.9	17.6	18.1	18.3
	4H	17.3	17.8	17.5	18.0	18.2	18.1	18.7	18.4	18.9	19.1
	6H	17.7	18.2	17.9	18.4	18.6	18.8	19.3	19.1	19.5	19.8
	8H	17.7	18.2	18.0	18.5	18.7	19.0	19.5	19.3	19.8	20.0
	12H	17.7	18.2	18.1	18.5	18.8	19.2	19.7	19.5	20.0	20.3
4H	2H	15.7	16.2	15.9	16.4	16.6	16.3	16.8	16.5	17.0	17.3
	3H	17.6	18.1	17.9	18.3	18.6	18.2	18.7	18.5	18.9	19.2
	4H	18.3	18.8	18.6	19.0	19.3	19.0	19.5	19.4	19.8	20.1
	6H	18.7	19.1	19.1	19.4	19.8	19.8	20.2	20.2	20.5	20.9
	8H	18.8	19.2	19.2	19.5	19.9	20.1	20.5	20.5	20.9	21.2
	12H	18.8	19.2	19.2	19.5	19.9	20.4	20.7	20.8	21.1	21.5
8H	4H	18.6	19.0	19.0	19.3	19.7	19.3	19.6	19.6	20.0	20.3
	6H	19.1	19.4	19.5	19.8	20.2	20.2	20.5	20.6	20.9	21.3
	8H	19.2	19.5	19.6	19.9	20.3	20.6	20.9	21.0	21.3	21.7
	12H	19.2	19.5	19.7	19.9	20.4	20.9	21.2	21.4	21.6	22.1
12H	4H	18.6	18.9	19.0	19.3	19.7	19.2	19.6	19.6	20.0	20.3
	6H	19.1	19.4	19.6	19.8	20.3	20.2	20.5	20.6	20.9	21.3
	8H	19.3	19.5	19.8	20.0	20.4	20.6	20.9	21.1	21.3	21.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.2					
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.1					
2.0H	+ 0.2 / - 0.3					+ 0.4 / - 0.4					

CIE Pub.117 Corrected 799.7 lm Total Lamp Luminous Flux. (8log(F/F0) = -0.8)

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:HJL  
 Test Date:2023-11-15

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:13.252m [K=1.0000]  
 Remarks: DC6.45V

## UTILIZATION FACTORS TABLE

Test:U:0.1168V I:0A P:0W PF:0 Lamp Flux:799.683x1 lm		
NAME: M8-HO	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2023111506
MFR.: JEWOO	SUR.:0.05m	PROTECTION ANGLE:

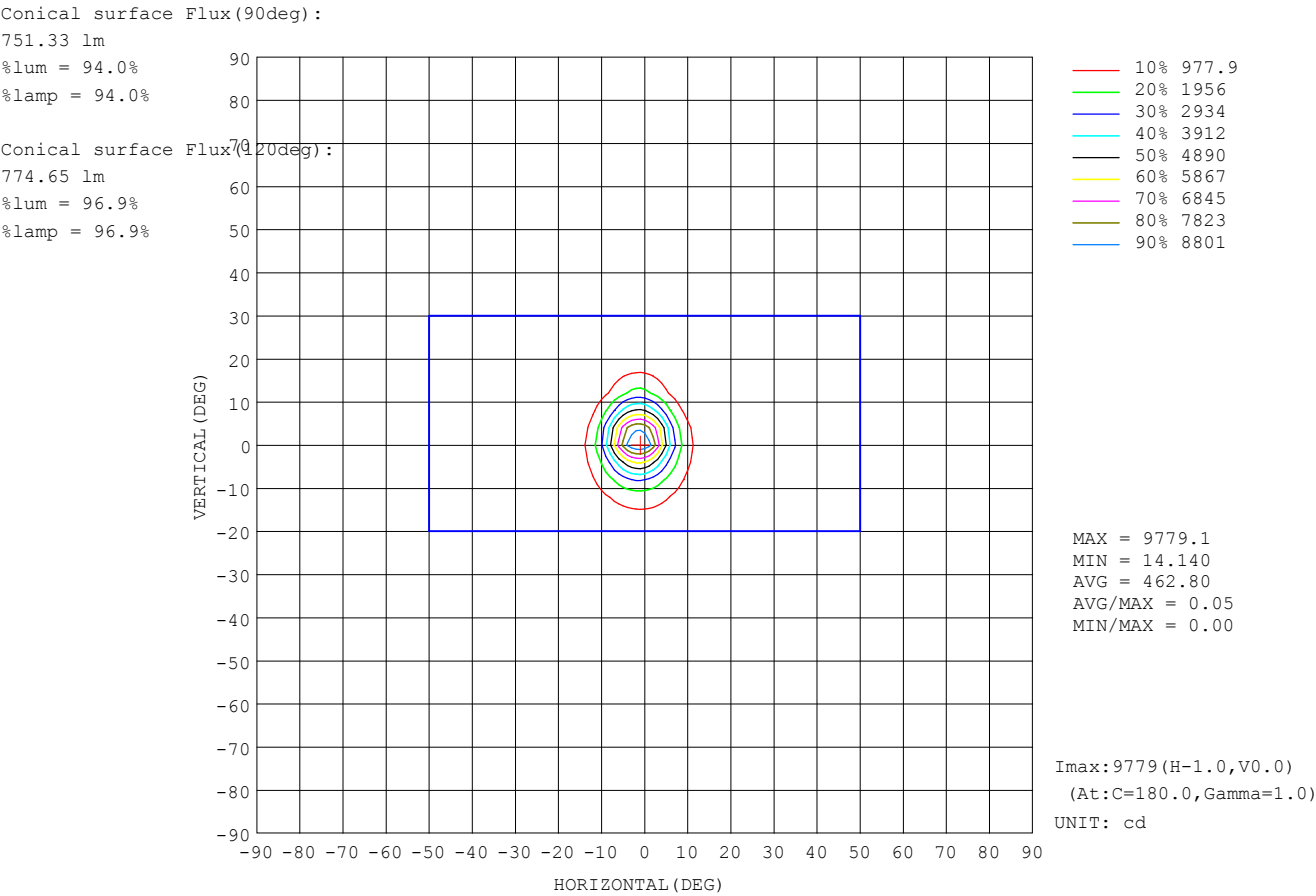
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	94	89	85	94	88	85	93	88	84	81
1.00	99	93	89	98	93	89	96	92	88	84
1.25	103	97	94	102	97	93	100	95	92	88
1.50	105	100	97	104	100	96	102	98	95	91
2.00	108	104	100	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	113	111	108	111	109	107	108	106	104	97
5.00	115	112	111	113	111	109	109	107	106	98
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHR NOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: HJL  
 Test Date: 2023-11-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity: 65.0%  
 Test Distance: 13.252m [K=1.0000]  
 Remarks: DC6.45V

ISOCANDELA DIAGRAM

Test:U:0.1168V I:0A P:0W PF:0 Lamp Flux:799.683x1 lm		
NAME: M8-HO	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2023111506
MFR.: JEWOO	SUR.:0.05m	PROTECTION ANGLE:

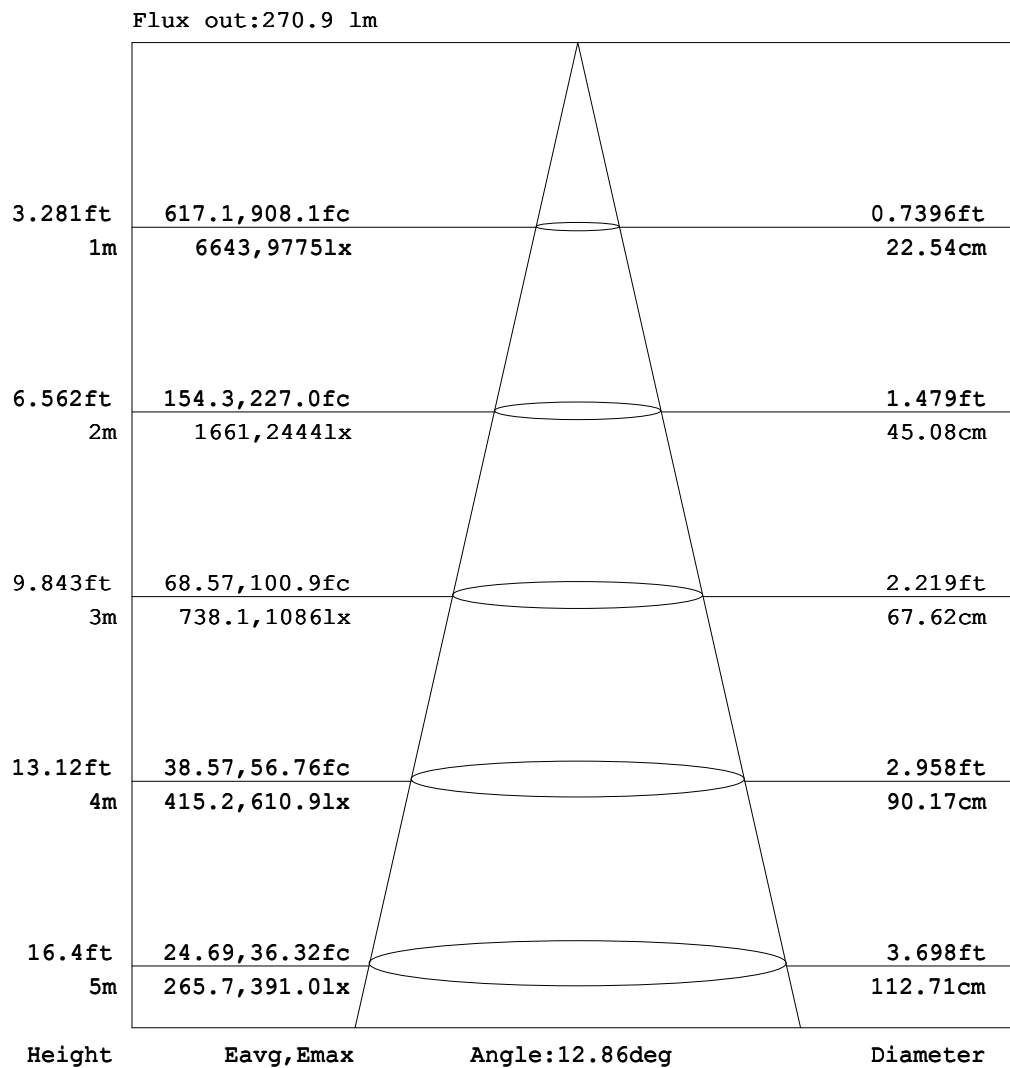


C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:HJL  
Test Date:2023-11-15

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
Humidity:65.0%  
Test Distance:13.252m [K=1.0000]  
Remarks: DC6.45V

## AAI Figure

Test:U:0.1168V I:0A P:0W PF:0 Lamp Flux:799.683x1 lm		
NAME: M8-HO	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2023111506
MFR.: JEWOO	SUR.:0.05m	PROTECTION ANGLE:



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

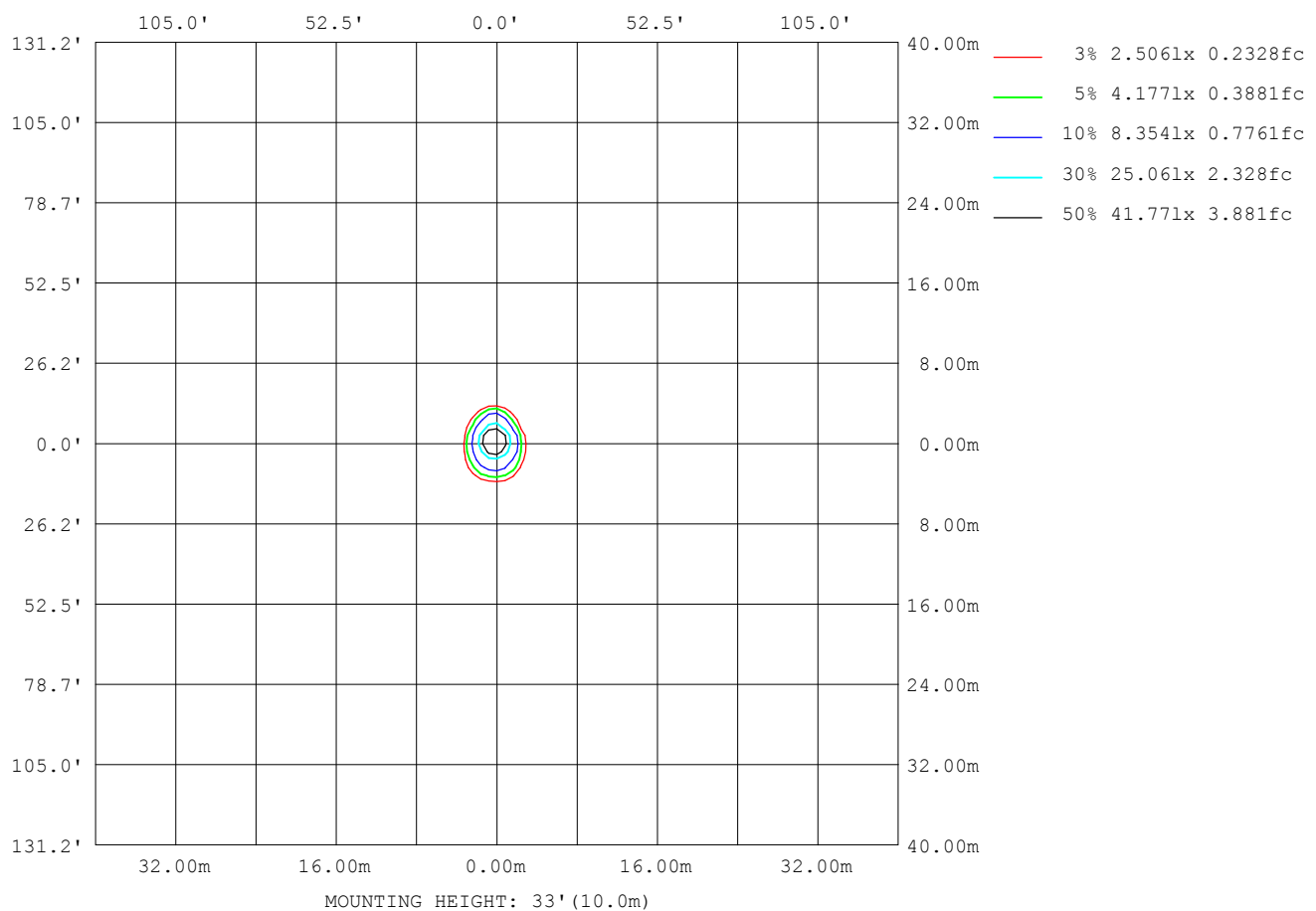
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:HJL  
 Test Date:2023-11-15

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:13.252m [K=1.0000]  
 Remarks: DC6.45V



## ISOLUX DIAGRAM

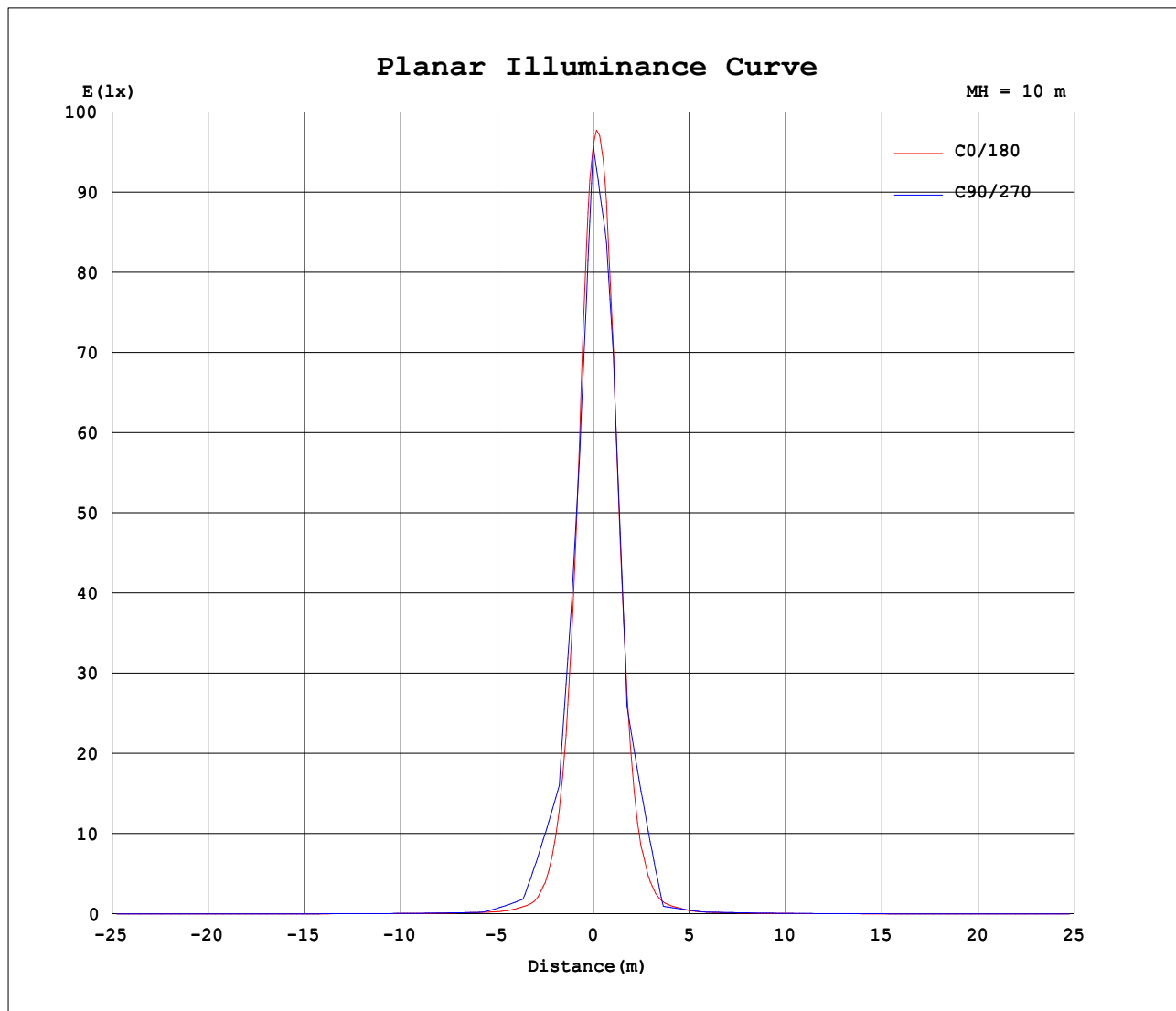
Test:U:0.1168V I:0A P:0W PF:0 Lamp Flux:799.683x1 lm		
NAME: M8-HO	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2023111506
MFR.: JEWOO	SUR.:0.05m	PROTECTION ANGLE:



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:HJL  
 Test Date:2023-11-15

γ Range: 0 - 90DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
 Humidity:65.0%  
 Test Distance:13.252m [K=1.0000]  
 Remarks: DC6.45V

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: HJL  
Test Date: 2023-11-15

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000H\_V1 SYSTEM V2.0.287  
Humidity: 65.0%  
Test Distance: 13.252m [K=1.0000]  
Remarks: DC6.45V

UNIT: cd

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.252m [K=1.0000]
Remarks: DC6.45V

```



UNIT: cd

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_v1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.252m [K=1.0000]
Remarks: DC6.45V

```

Model	Model	Model
Model 1	Model 2	Model 3

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.252m [K=1.0000]
Remarks: DC6.45V

```