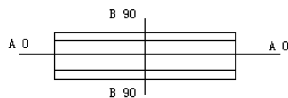
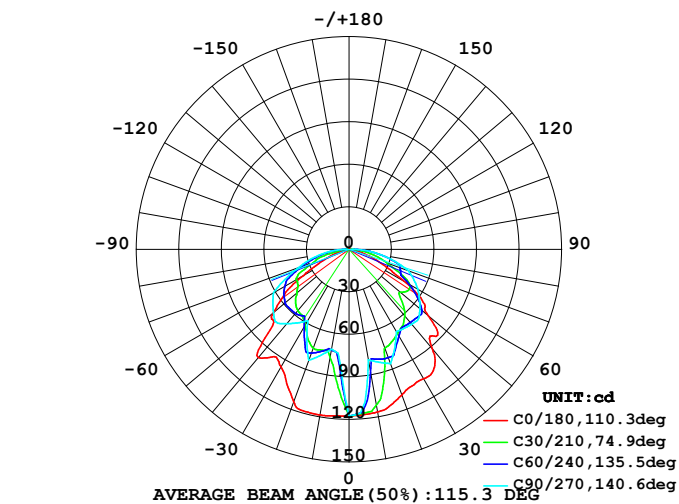


LUMINAIRE PHOTOMETRIC TEST REPORT

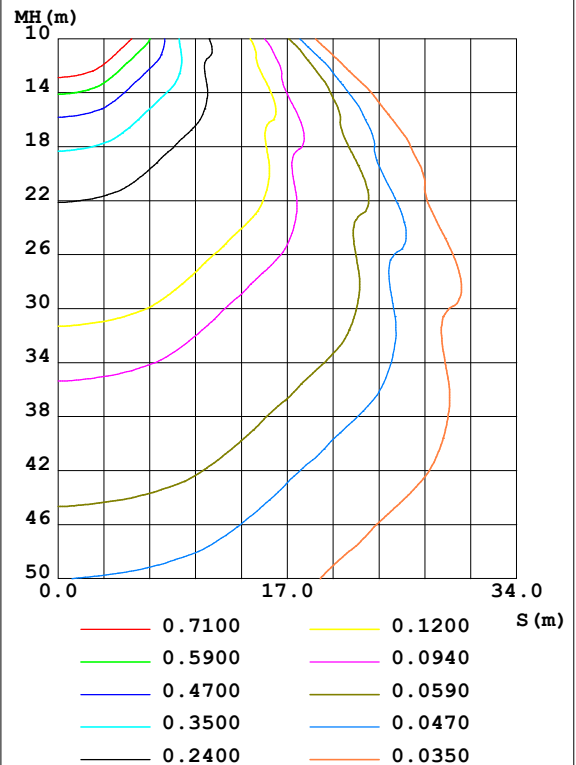
Test:U:0V I:0A P:0W PF:0 Lamp Flux:274.593x1 lm		
NAME: EMB05-1H-AT-LFP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022070901
MFR.: JEWOO	SUR.:0.37	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	EMB05-1H-AT-LFP	Imax(cd)	122.1	S/MH(C0/180)	1.22
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.85
RATED VOLTAGE(V)		TOTAL FLUX(lm)	274.59	η UP,DN(C0-180)	0.0,52.0
NOMINAL FLUX(lm)	274.593	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)		η down(%)	100.0	CIBSE SHR MAX	0.95

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:hjl
 Test Date:2022-07-09

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.693m [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
5	117.0	115.7	112.1	117.4	117.8	86.63	78.36	86.86	0- 5	2.582	2.582	0.94,0.94
10	116.4	99.70	79.14	102.0	118.6	72.67	71.52	72.54	5- 10	6.868	9.450	3.44,3.44
15	113.9	78.58	82.48	77.76	118.5	72.98	77.38	69.91	10- 15	10.34	19.79	7.21,7.21
20	109.2	77.52	85.82	77.73	114.5	74.84	83.24	72.59	15- 20	13.96	33.75	12.3,12.3
25	106.2	76.06	76.46	76.04	104.4	73.09	70.72	73.02	20- 25	16.99	50.74	18.5,18.5
30	105.4	74.19	67.10	70.38	96.02	65.14	58.20	67.44	25- 30	18.63	69.38	25.3,25.3
35	103.9	69.04	68.01	64.04	92.37	56.33	63.34	63.32	30- 35	20.01	89.39	32.6,32.6
40	91.40	64.24	68.92	57.23	99.56	53.93	68.48	61.33	35- 40	22.06	111.4	40.6,40.6
45	86.77	63.52	69.28	59.07	76.47	57.75	72.71	60.20	40- 45	23.58	135.0	49.2,49.2
50	73.10	62.70	65.24	59.56	69.69	57.53	69.61	60.59	45- 50	24.34	159.4	58,58
55	63.16	59.52	60.65	57.36	55.87	56.90	65.59	58.98	50- 55	24.05	183.4	66.8,66.8
60	44.06	46.63	56.06	44.58	37.17	48.70	61.58	47.38	55- 60	22.72	206.1	75.1,75.1
65	28.86	35.45	50.40	34.16	23.53	37.79	49.75	36.56	60- 65	20.12	226.3	82.4,82.4
70	17.87	27.86	44.74	28.16	13.75	27.55	37.93	27.99	65- 70	17.00	243.2	88.6,88.6
75	9.416	23.48	33.89	22.83	6.697	17.36	28.67	19.56	70- 75	13.69	256.9	93.6,93.6
80	3.477	15.71	23.03	14.85	2.628	10.38	19.40	13.01	75- 80	9.565	266.5	97.1,97.1
85	1.120	8.877	12.17	8.126	0.6514	5.465	10.14	6.632	80- 85	5.748	272.2	99.1,99.1
90	0.1283	2.263	1.318	1.864	0.0562	0.8393	0.8744	1.003	85- 90	2.345	274.6	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		

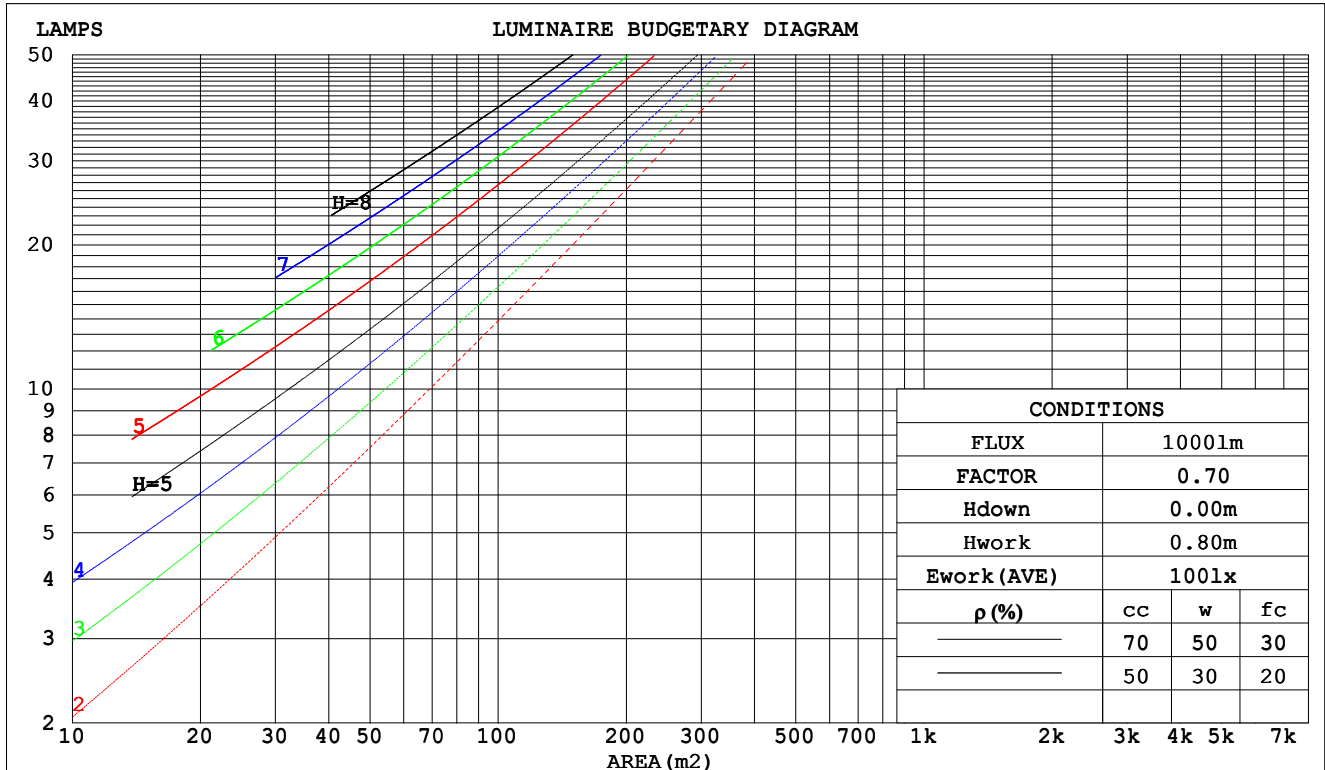
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:hjl
 Test Date:2022-07-09

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.693m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:0V I:0A P:0W PF:0 Lamp Flux:274.593x1 lm		
NAME: EMB05-1H-AT-LFP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022070901
MFR.: JEWOO	SUR.:0.37	PROTECTION 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	1.03	.98	.94	1.00	.96	.92	.96	.93	.89	.92	.89	.87	.89	.86	.84	.82
2.0	.89	.82	.75	.87	.80	.75	.83	.78	.73	.80	.75	.71	.77	.73	.69	.67
3.0	.77	.69	.62	.76	.68	.61	.73	.66	.60	.70	.64	.59	.67	.62	.58	.56
4.0	.68	.59	.52	.67	.58	.52	.64	.57	.51	.62	.56	.50	.60	.54	.50	.47
5.0	.61	.51	.45	.60	.51	.44	.58	.50	.44	.56	.49	.43	.54	.48	.43	.41
6.0	.55	.45	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.48	.42	.37	.35
7.0	.49	.40	.34	.49	.40	.34	.47	.39	.34	.46	.39	.33	.44	.38	.33	.31
8.0	.45	.36	.30	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.28
9.0	.41	.33	.27	.41	.33	.27	.40	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.29	.25	.36	.29	.24	.35	.29	.24	.23



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:hjl
 Test Date:2022-07-09

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.693m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:0V I:0A P:0W PF:0 Lamp Flux:274.593x1 lm								
NAME: EMB05-1H-AT-LFP				TYPE:			WEIGHT:	
SPEC.:				DIM.:			SERIAL No.:2022070901	
MFR.: JEWOO				SUR.:0.37			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 Coefficients(WEC)									
0.0																
1.0	.332	.189	.060	.325	.186	.059	.312	.179	.057	.300	.173	.055	.288	.167	.054	
2.0	.308	.169	.052	.302	.166	.051	.290	.161	.050	.279	.156	.049	.269	.152	.048	
3.0	.282	.150	.045	.277	.148	.045	.266	.144	.044	.256	.140	.043	.247	.137	.042	
4.0	.259	.134	.039	.254	.133	.039	.244	.130	.039	.236	.127	.038	.228	.124	.038	
5.0	.238	.121	.035	.233	.120	.035	.225	.117	.035	.217	.115	.034	.210	.112	.034	
6.0	.220	.110	.031	.216	.109	.031	.208	.107	.031	.201	.105	.031	.195	.103	.030	
7.0	.204	.101	.029	.200	.100	.028	.194	.098	.028	.187	.096	.028	.182	.094	.028	
8.0	.190	.093	.026	.186	.092	.026	.181	.090	.026	.175	.089	.026	.170	.087	.025	
9.0	.177	.086	.024	.174	.085	.024	.169	.084	.024	.164	.082	.024	.160	.081	.023	
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.155	.077	.022	.150	.076	.022	

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	.182	.156	.133	.156	.134	.114	.106	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.174	.132	.096	.149	.113	.083	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.167	.114	.073	.143	.099	.063	.098	.069	.044	.057	.040	.026	.018	.013	.009	
4.0	.159	.101	.057	.137	.087	.049	.094	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.152	.091	.046	.130	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.144	.083	.038	.124	.071	.033	.086	.050	.024	.050	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.082	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.112	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:hjl
 Test Date:2022-07-09

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.693m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:0V I:0A P:0W PF:0 Lamp Flux:274.593x1 lm										
NAME: EMB05-1H-AT-LFP						TYPE:		WEIGHT:		
SPEC.:						DIM.:		SERIAL No.:2022070901		
MFR.: JEWOO						SUR.:0.37		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	12.7	14.3	13.0	14.5	14.7	14.7	16.3	15.0	16.5	16.7
3H	13.7	15.1	14.0	15.4	15.6	17.1	18.6	17.4	18.8	19.1
4H	13.9	15.3	14.2	15.6	15.8	18.2	19.6	18.5	19.8	20.1
6H	14.0	15.3	14.3	15.5	15.8	19.0	20.3	19.4	20.6	20.9
8H	13.9	15.2	14.3	15.5	15.8	19.4	20.6	19.7	20.9	21.2
12H	13.9	15.1	14.3	15.4	15.7	19.6	20.8	20.0	21.1	21.4
4H 2H	13.8	15.2	14.1	15.4	15.7	15.2	16.5	15.5	16.8	17.1
3H	15.2	16.4	15.5	16.7	17.0	17.9	19.1	18.2	19.4	19.7
4H	15.6	16.8	16.0	17.1	17.4	19.1	20.3	19.5	20.6	20.9
6H	15.8	16.8	16.2	17.2	17.6	20.2	21.2	20.6	21.5	21.9
8H	15.8	16.8	16.3	17.1	17.5	20.6	21.5	21.0	21.9	22.3
12H	15.8	16.7	16.3	17.1	17.5	20.9	21.8	21.4	22.2	22.6
8H 4H	16.4	17.3	16.8	17.7	18.1	19.4	20.3	19.8	20.7	21.1
6H	16.8	17.6	17.2	18.0	18.4	20.7	21.4	21.1	21.8	22.3
8H	16.9	17.6	17.4	18.0	18.5	21.2	21.9	21.7	22.4	22.8
12H	17.0	17.6	17.4	18.0	18.5	21.7	22.3	22.2	22.8	23.2
12H 4H	16.6	17.4	17.0	17.8	18.2	19.4	20.2	19.8	20.6	21.0
6H	17.1	17.8	17.6	18.2	18.7	20.7	21.4	21.2	21.8	22.3
8H	17.3	17.9	17.8	18.3	18.8	21.3	21.9	21.8	22.4	22.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.5					+ 0.1 / - 0.1				
1.5H	+ 0.6 / - 0.3					+ 0.3 / - 0.4				
2.0H	+ 0.9 / - 0.6					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 274.6 lm Total Lamp Luminous Flux. (8log(F/F0) = -4.5)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:hjl
 Test Date:2022-07-09

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.693m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:0V I:0A P:0W PF:0 Lamp Flux:274.593x1 lm		
NAME: EMB05-1H-AT-LFP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022070901
MFR.: JEWOO	SUR.:0.37	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) $k(RI) \times RCR = 5$									
$k = 0.60$	55	43	36	54	43	36	53	42	36	29
0.80	65	53	45	64	53	45	62	52	45	38
1.00	74	62	54	72	61	54	70	63	54	46
1.25	81	70	62	79	69	62	77	68	61	53
1.50	86	76	68	84	75	68	81	73	67	59
2.00	93	84	77	91	83	76	88	81	75	67
2.50	97	89	83	95	88	82	91	85	80	71
3.00	101	93	88	99	92	86	94	89	84	76
4.00	105	99	94	103	97	93	98	94	90	81
5.00	108	102	98	105	101	97	101	97	93	84
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:hjl
 Test Date:2022-07-09

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:13.693m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

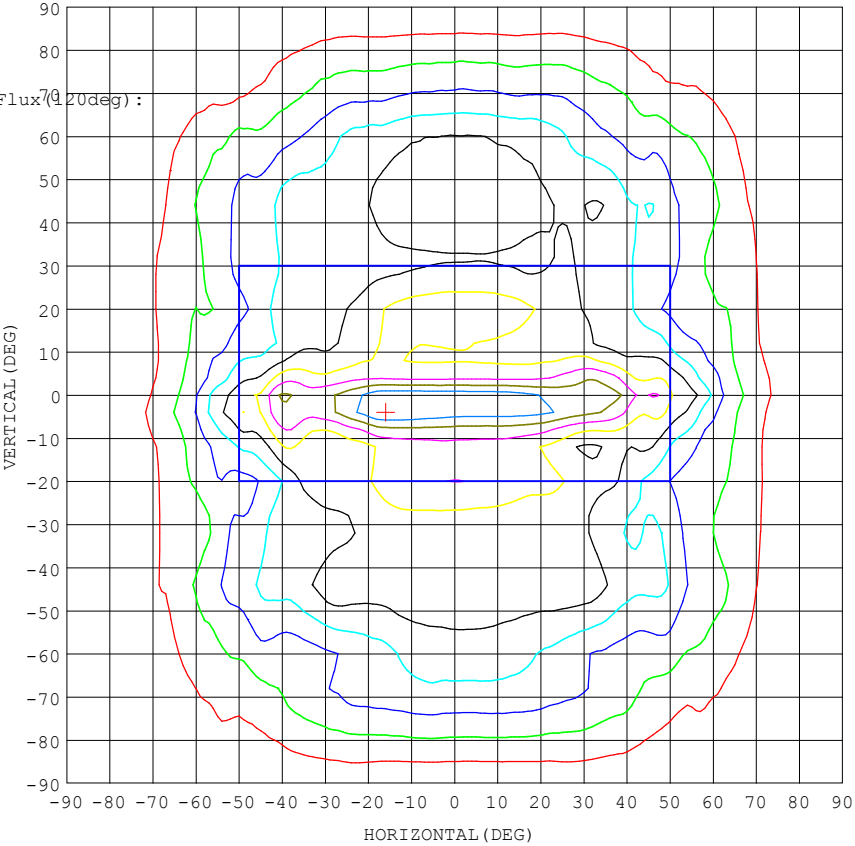
Test:U:0V I:0A P:0W PF:0 Lamp Flux:274.593x1 lm		
NAME: EMB05-1H-AT-LFP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022070901
MFR.: JEWOO	SUR.:0.37	PROTECTION ANGLE:

Conical surface Flux(90deg):

135.03 lm
%lum = 49.2%
%lamp = 49.2%

Conical surface Flux(70deg):

206.14 lm
%lum = 75.1%
%lamp = 75.1%



MAX = 122.33
MIN = 31.646
AVG = 72.451
AVG/MAX = 0.59
MIN/MAX = 0.26

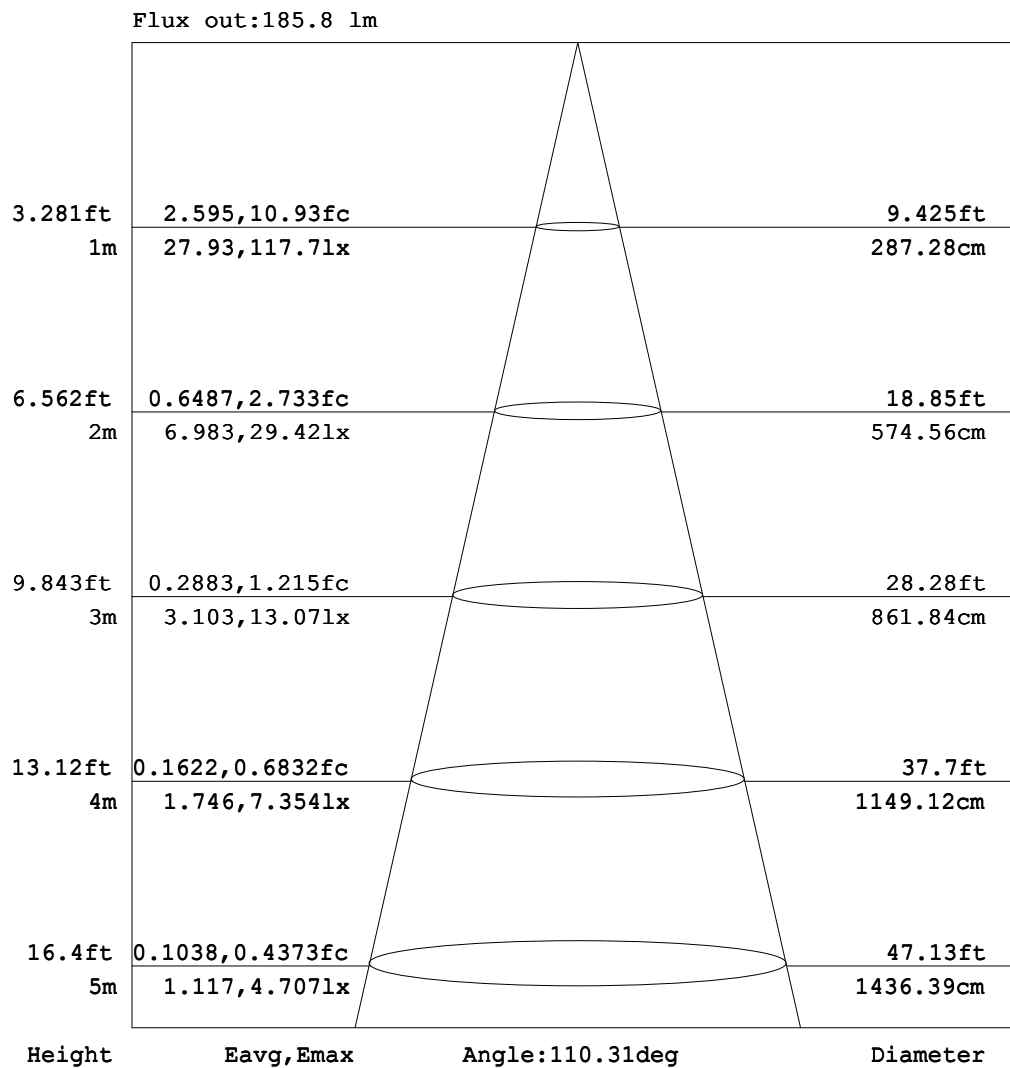
Imax:122.3 (H-16.0,V-4.0)
(At:C=165.0,Gamma=15.0)
UNIT: cd

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:hjl
Test Date:2022-07-09

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.693m [K=1.0000]
Remarks:

AAI Figure

Test:U:0V I:0A P:0W PF:0 Lamp Flux:274.593x1 lm		
NAME: EMB05-1H-AT-LFP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022070901
MFR.: JEWOO	SUR.:0.37	PROTECTION ANGLE:



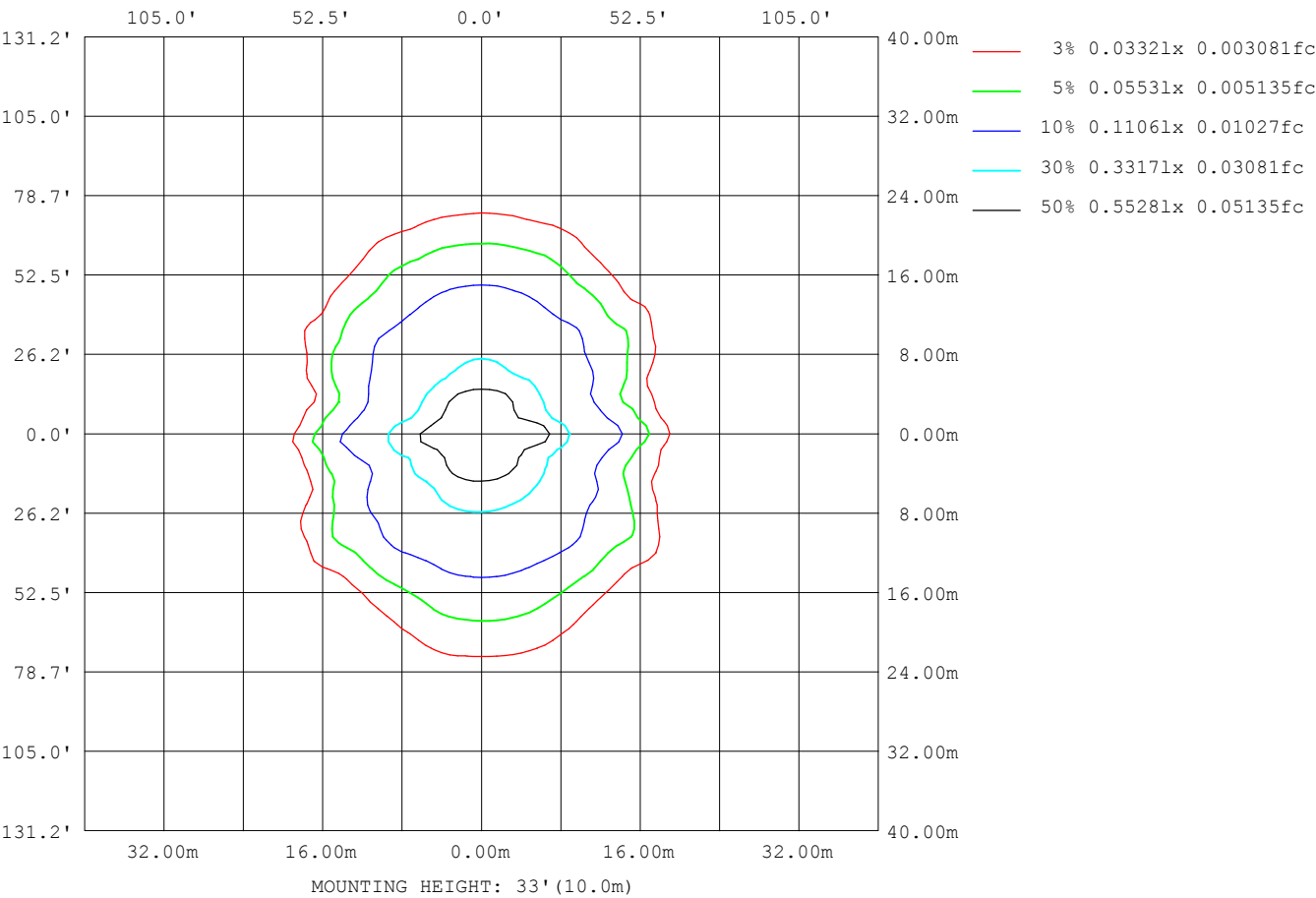
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:hjl
Test Date:2022-07-09

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.693m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

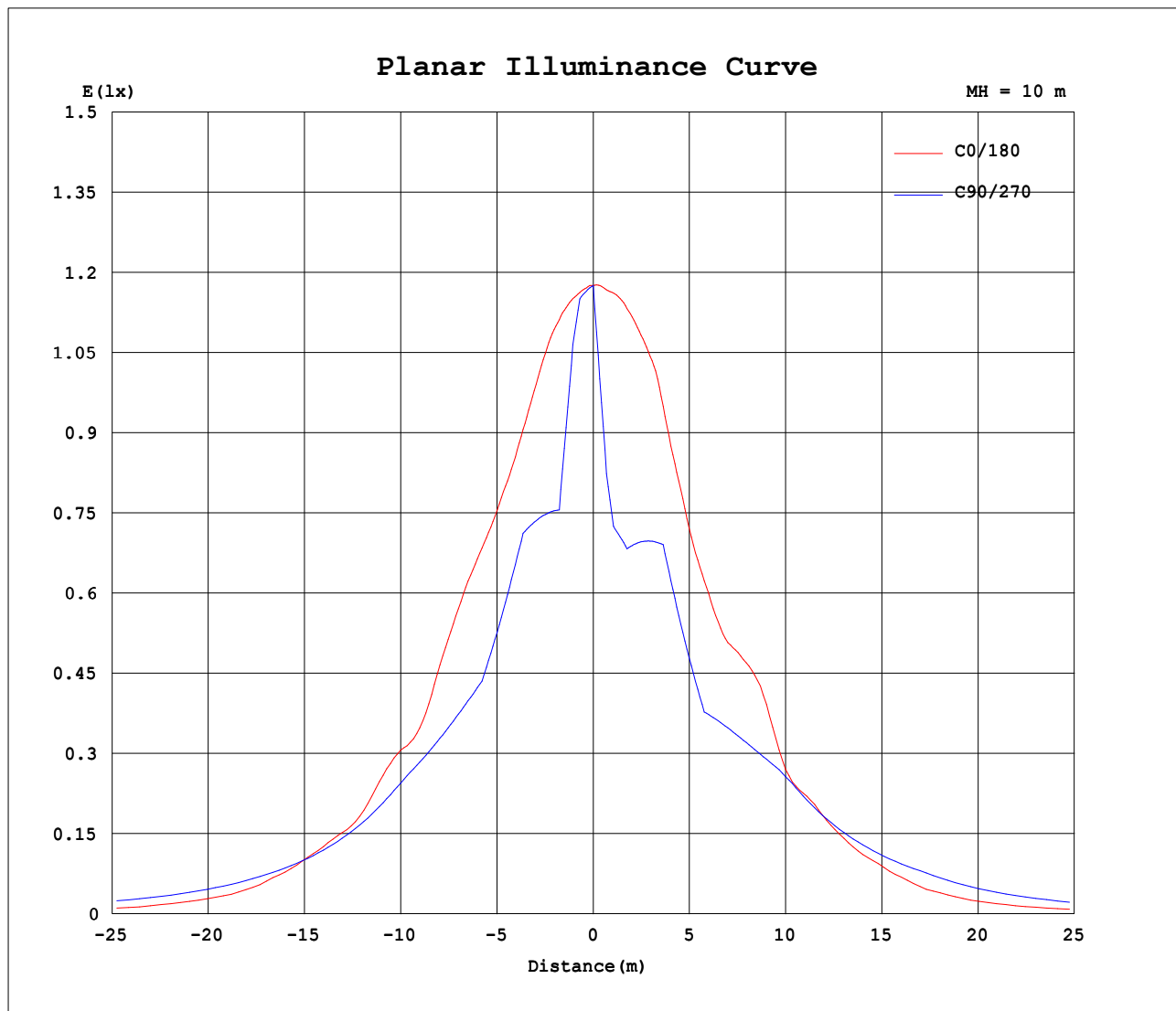
Test:U:0V I:0A P:0W PF:0 Lamp Flux:274.593x1 lm		
NAME: EMB05-1H-AT-LFP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022070901
MFR.: JEWOO	SUR.:0.37	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:hjl
Test Date:2022-07-09

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.693m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: hjl
Test Date: 2022-07-09

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity: 65.0%
Test Distance: 13.693m [K=1.0000]
Remarks:

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:13.693m [K=1.0000]
Remarks:

```

UNIT: cd

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UNIT: cd

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γ Interval: 0.5DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:13.693m [K=1.0000]
Remarks:

```

Test:U:0V I:0A P:0W PF:0 Lamp Flux:274.593x1 lm		
NAME: EMB05-1H-AT-LFP	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022070901
MFR.: JEWOO	SUR.:0.37	PROTECTION ANGLE:

[illegible]

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 5.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Temperature: 25.3DEG	Humidity: 65.0%
Operators: hjl	Test Distance: 13.693m [K=1.0000]
Test Date: 2022-07-09	Remarks:

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 5.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System: EVERFINE GO-2000H_V1 SYSTEM V2.0.287
Temperature: 25.3DEG	Humidity: 65.0%
Operators: hjl	Test Distance: 13.693m [K=1.0000]
Test Date: 2022-07-09	Remarks: