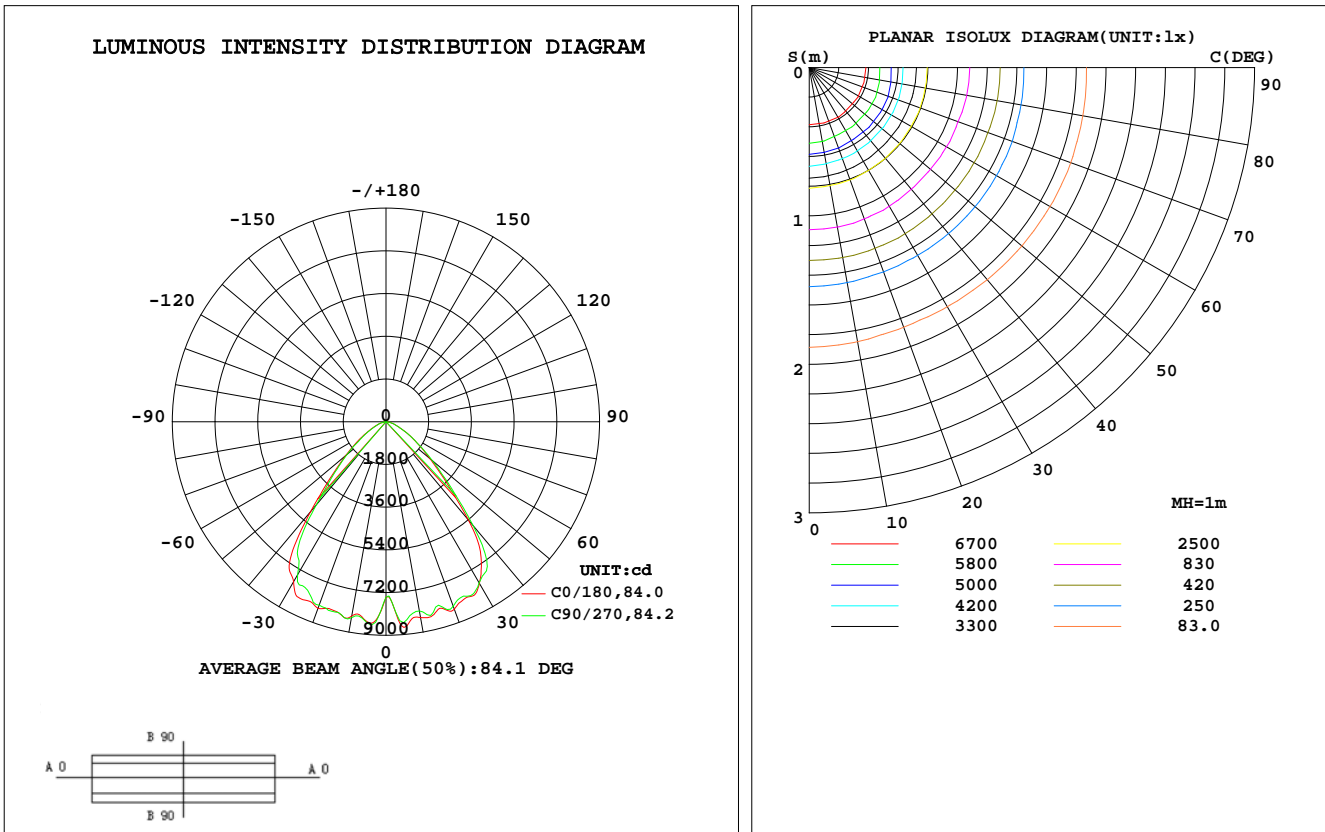


# LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:240.77V I:0.5073A P:119.83W PF:0.9812 Freq:49.99Hz Lamp Flux:16218.3x1 lm					
NAME: ECOHB120LSE5G7 with wireguard			TYPE:Highbay		WEIGHT:
SPEC.:DIP120W			DIM.: D290		SERIAL No.:
MFR.: Eastfield			SUR.:D238		Shielding Angle:

DATA OF LAMP			PHOTOMETRIC DATA			Eff: 135.34 lm/W
MODEL	1		Imax(cd)	8699	S/MH(C0/180)	1.28
NOMINAL POWER(W)	120		LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	240		TOTAL FLUX(lm)	16218	$\eta$ UP,DN(C0-180)	0.0,48.3
NOMINAL FLUX(lm)	16218.3		CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.0,51.7
LAMPS INSIDE	1		$\eta$ up(%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	240		$\eta$ down(%)	99.9	CIBSE SHR MAX	1.25



C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:01  
 Test Date:2023-03-02

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:8.750m [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	8315	8368	8383	8345	8377	8226	8097	8055	0- 10	788.6	788.6	4.86,4.86
20	8368	8286	8226	8253	8411	8383	8275	8192	10- 20	2344	3133	19.3,19.3
30	7787	7522	7452	7554	7870	7892	7846	7916	20- 30	3734	6866	42.3,42.3
40	4949	4538	4573	4970	5404	5648	5709	5606	30- 40	4221	11087	68.4,68.4
50	2212	2098	2137	2186	2419	2484	2560	2380	40- 50	2691	13779	85,85
60	971.0	932.1	933.0	984.6	1142	1162	1150	1042	50- 60	1429	15208	93.8,93.8
70	394.8	402.4	377.8	406.0	469.5	477.0	453.7	415.0	60- 70	671.3	15879	97.9,97.9
80	83.31	88.13	95.87	115.0	142.1	141.7	121.1	103.0	70- 80	281.9	16161	99.6,99.6
90	7.466	7.065	4.887	6.250	6.960	6.914	5.152	6.414	80- 90	45.12	16206	99.9,99.9
100	12.04	12.12	12.66	10.17	9.868	10.81	13.39	12.52	90-100	11.19	16217	100,100
110	0	0	0	0	0	0	0	0	100-110	0.7157	16218	100,100
120	0	0	0	0	0	0	0	0	110-120	0	16218	100,100
130	0	0	0	0	0	0	0	0	120-130	0	16218	100,100
140	0	0	0	0	0	0	0	0	130-140	0	16218	100,100
150	0	0	0	0	0	0	0	0	140-150	0	16218	100,100
160	0	0	0	0	0	0	0	0	150-160	0	16218	100,100
170	0	0	0	0	0	0	0	0	160-170	0	16218	100,100
180	0	0	0	0	0	0	0	0	170-180	0	16218	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 12648 lm

%lum = 78.0%

%lamp = 78.0%

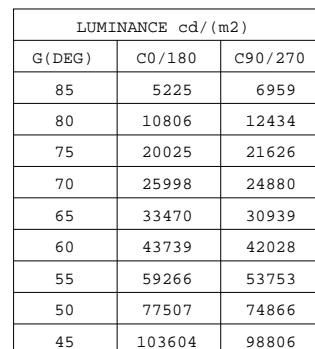
Conical surface Flux(120deg): 15208 lm

%lum = 93.8%

%lamp = 93.8%

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:01  
 Test Date:2023-03-02

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:



```

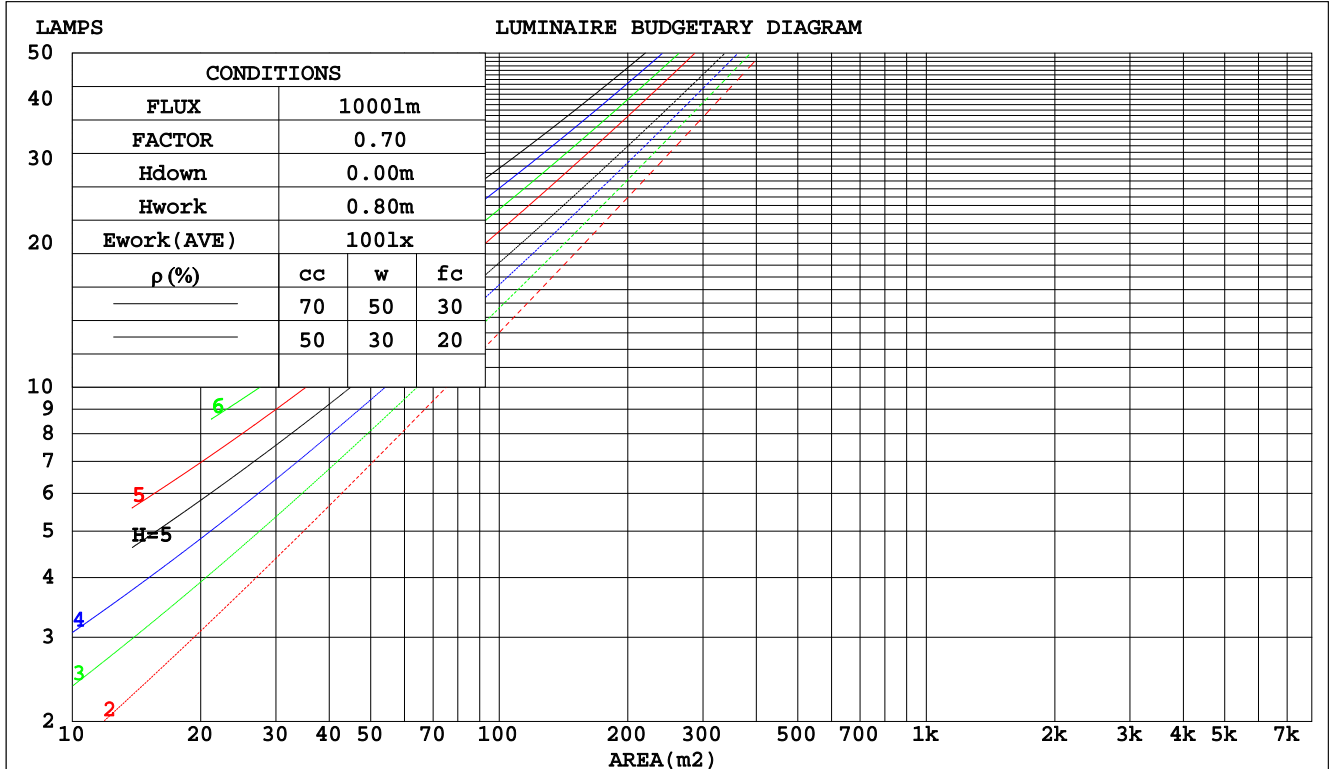
γ Range: 0 - 100DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:8.750m [K=1.0000]
Remarks:

```

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:240.77V I:0.5073A P:119.83W PF:0.9812 Freq:49.99Hz Lamp Flux:16218.3x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP120W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	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						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	1.05	1.02	1.06	1.03	1.00	1.02	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.88	.96	.91	.87	.92	.88	.85	.89	.86	.83	.86	.84	.81	.79
3.0	.88	.82	.77	.87	.81	.76	.84	.79	.75	.81	.77	.73	.79	.75	.72	.70
4.0	.80	.73	.67	.79	.72	.67	.76	.71	.66	.74	.69	.65	.72	.68	.64	.63
5.0	.73	.65	.60	.72	.65	.60	.70	.64	.59	.68	.63	.58	.66	.62	.58	.56
6.0	.67	.59	.54	.66	.59	.54	.64	.58	.53	.63	.57	.53	.61	.56	.52	.50
7.0	.61	.54	.48	.61	.53	.48	.59	.53	.48	.58	.52	.48	.57	.51	.47	.46
8.0	.57	.49	.44	.56	.49	.44	.55	.48	.44	.53	.48	.43	.52	.47	.43	.41
9.0	.52	.45	.40	.52	.45	.40	.51	.44	.40	.50	.44	.40	.49	.43	.40	.38
10.0	.49	.42	.37	.48	.41	.37	.47	.41	.37	.46	.41	.36	.45	.40	.36	.35



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:01  
Test Date:2023-03-02

γ Range: 0 - 100DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:240.77V I:0.5073A P:119.83W PF:0.9812 Freq:49.99Hz Lamp Flux:16218.3x1 lm								
NAME: ECOHB120LSE5G7 with wireguard				TYPE:Highbay			WEIGHT:	
SPEC.:DIP120W				DIM.: D290			SERIAL No.:	
MFR.: Eastfield				SUR.:D238			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	.231	.131	.042	.224	.128	.041	.211	.121	.039	.199	.115	.037	.188	.109	.035		
2.0	.224	.123	.038	.218	.120	.037	.207	.115	.036	.197	.110	.035	.187	.106	.033		
3.0	.213	.113	.034	.208	.111	.034	.198	.107	.033	.189	.104	.032	.181	.100	.031		
4.0	.202	.105	.031	.197	.103	.031	.189	.100	.030	.181	.097	.029	.174	.094	.029		
5.0	.191	.097	.028	.187	.096	.028	.179	.093	.027	.172	.091	.027	.166	.089	.027		
6.0	.180	.090	.026	.177	.089	.026	.170	.087	.025	.164	.085	.025	.158	.083	.025		
7.0	.171	.084	.024	.168	.083	.024	.162	.082	.024	.156	.080	.023	.151	.078	.023		
8.0	.162	.079	.022	.159	.078	.022	.154	.077	.022	.149	.075	.022	.144	.074	.021		
9.0	.154	.074	.021	.151	.074	.021	.146	.072	.020	.142	.071	.020	.137	.070	.020		
10.0	.146	.070	.019	.144	.069	.019	.139	.068	.019	.135	.067	.019	.131	.066	.019		

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	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.175	.157	.141	.150	.135	.122	.103	.093	.084	.059	.054	.049	.019	.017	.016		
2.0	.164	.133	.107	.140	.114	.092	.096	.079	.064	.055	.046	.038	.018	.015	.012		
3.0	.154	.114	.083	.132	.099	.072	.091	.069	.050	.052	.040	.030	.017	.013	.010		
4.0	.146	.101	.066	.125	.087	.057	.086	.061	.040	.050	.035	.024	.016	.012	.008		
5.0	.138	.090	.054	.119	.078	.047	.082	.054	.033	.047	.032	.020	.015	.010	.006		
6.0	.132	.081	.045	.113	.070	.039	.078	.049	.027	.045	.029	.016	.015	.009	.005		
7.0	.125	.074	.038	.108	.064	.033	.075	.045	.023	.043	.026	.014	.014	.009	.005		
8.0	.120	.068	.032	.103	.059	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004		
9.0	.114	.063	.028	.099	.055	.025	.068	.038	.017	.040	.023	.010	.013	.007	.003		
10.0	.109	.059	.025	.094	.051	.022	.065	.036	.015	.038	.021	.009	.012	.007	.003		

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:01  
 Test Date:2023-03-02

γ Range: 0 - 100DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:240.77V I:0.5073A P:119.83W PF:0.9812 Freq:49.99Hz Lamp Flux:16218.3x1 lm										
NAME: ECOHB120LSE5G7 with wireguard					TYPE:Highbay			WEIGHT:		
SPEC.:DIP120W					DIM.: D290			SERIAL No.:		
MFR.: Eastfield					SUR.:D238			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	26.0	27.3	26.2	27.4	27.6	25.7	27.0	26.0	27.2	27.4
3H	26.2	27.4	26.5	27.6	27.8	26.0	27.1	26.3	27.3	27.6
4H	26.3	27.4	26.6	27.6	27.8	26.1	27.1	26.4	27.4	27.6
6H	26.2	27.3	26.6	27.5	27.8	26.0	27.1	26.4	27.3	27.6
8H	26.2	27.2	26.5	27.5	27.7	26.0	27.0	26.3	27.3	27.5
12H	26.2	27.1	26.5	27.4	27.7	26.0	26.9	26.3	27.2	27.5
4H 2H	26.0	27.1	26.3	27.3	27.6	25.8	26.9	26.1	27.1	27.4
3H	26.4	27.3	26.7	27.6	27.9	26.2	27.1	26.5	27.4	27.7
4H	26.5	27.3	26.8	27.6	28.0	26.3	27.2	26.7	27.5	27.8
6H	26.5	27.2	26.9	27.6	27.9	26.3	27.1	26.7	27.4	27.8
8H	26.4	27.1	26.9	27.5	27.9	26.3	27.0	26.7	27.4	27.7
12H	26.4	27.0	26.8	27.4	27.8	26.3	26.9	26.7	27.3	27.7
8H 4H	26.4	27.1	26.9	27.5	27.9	26.3	27.0	26.7	27.3	27.7
6H	26.5	27.0	26.9	27.4	27.9	26.4	26.9	26.8	27.3	27.7
8H	26.5	27.0	26.9	27.4	27.8	26.3	26.8	26.8	27.3	27.7
12H	26.4	26.8	26.9	27.3	27.8	26.3	26.8	26.8	27.2	27.7
12H 4H	26.4	27.0	26.8	27.4	27.8	26.3	26.9	26.7	27.3	27.7
6H	26.4	26.9	26.9	27.4	27.8	26.3	26.8	26.8	27.2	27.7
8H	26.4	26.9	26.9	27.3	27.8	26.3	26.7	26.8	27.2	27.7
Variations with the observer position at spacings:										
S = 1.0H	+ 1.3 / - 1.8					+ 1.2 / - 1.8				
1.5H	+ 1.9 / - 1.3					+ 1.6 / - 1.1				
2.0H	+ 2.4 / - 2.3					+ 2.2 / - 2.0				

CIE Pub.117, 16218 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 9.7$ )  
Area: 0.0444 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:01  
Test Date:2023-03-02

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:240.77V I:0.5073A P:119.83W PF:0.9812 Freq:49.99Hz Lamp Flux:16218.3x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP120W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:

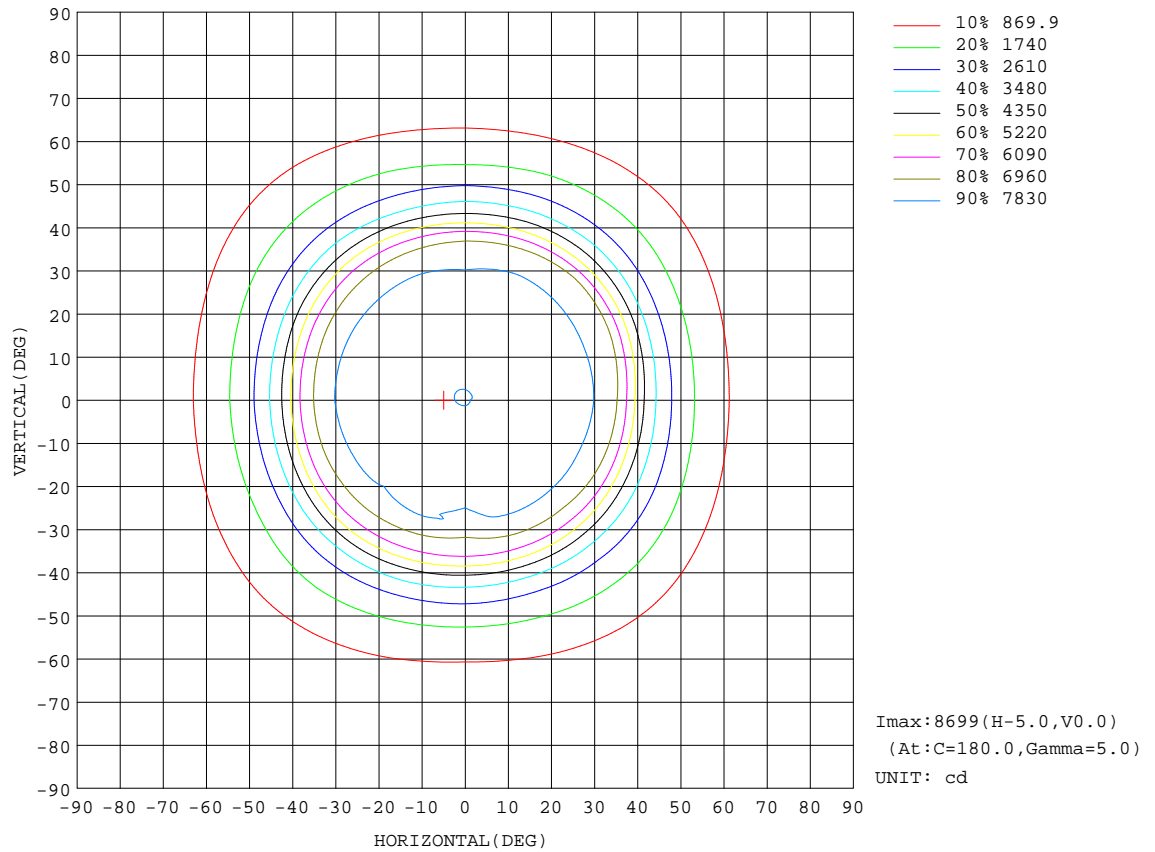
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	62	57	71	62	57	70	62	57	52
0.80	81	72	67	80	72	67	79	71	66	61
1.00	88	80	75	87	79	74	85	80	74	68
1.25	94	86	81	93	86	81	91	85	80	75
1.50	98	91	86	97	90	86	94	89	84	79
2.00	103	97	92	101	96	92	98	94	90	84
2.50	105	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	102	98	102	99	96	89
4.00	111	107	103	108	105	102	105	102	99	91
5.00	112	109	106	110	107	104	106	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: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:01  
 Test Date:2023-03-02

γ Range: 0 - 100DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:240.77V I:0.5073A P:119.83W PF:0.9812 Freq:49.99Hz Lamp Flux:16218.3x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP120W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:01  
Test Date:2023-03-02

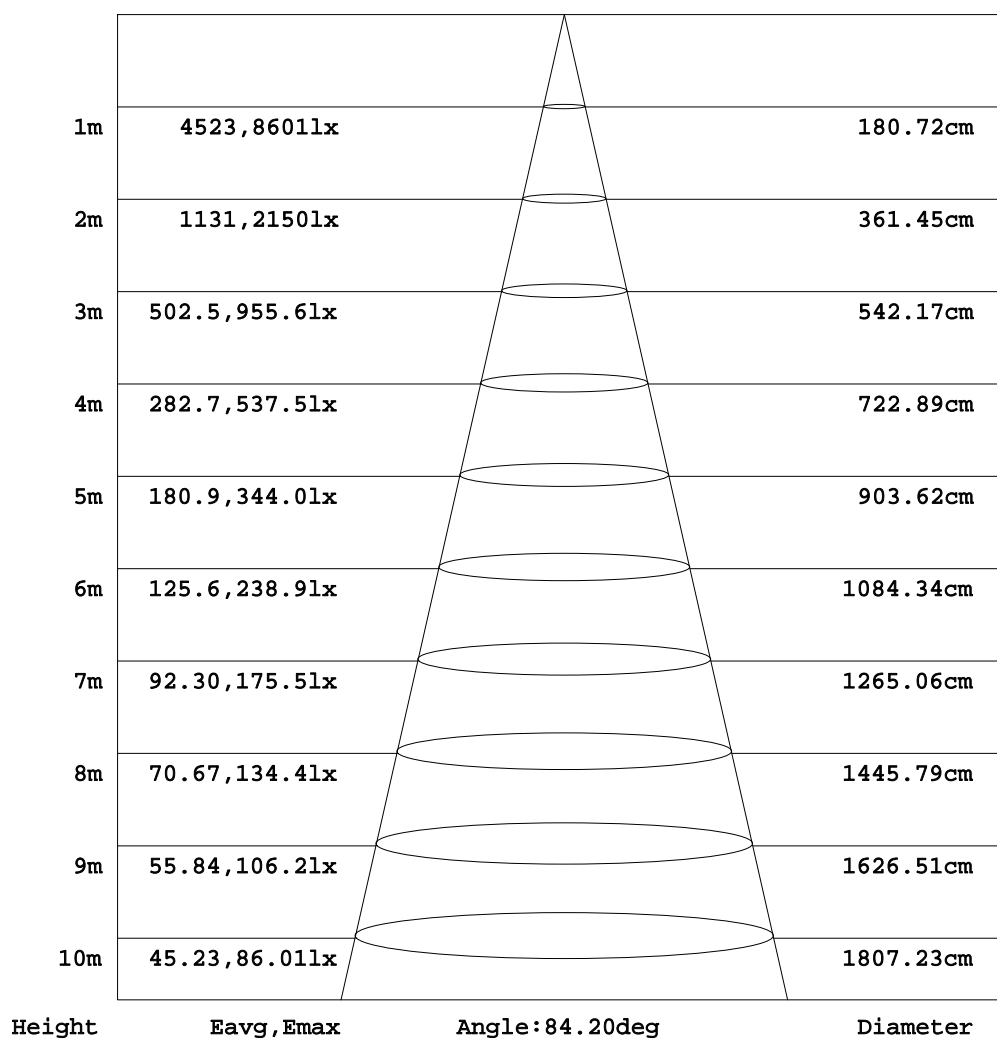
$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:8.750m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:240.77V I:0.5073A P:119.83W PF:0.9812 Freq:49.99Hz Lamp Flux:16218.3x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP120W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:

Flux out:11931 lm



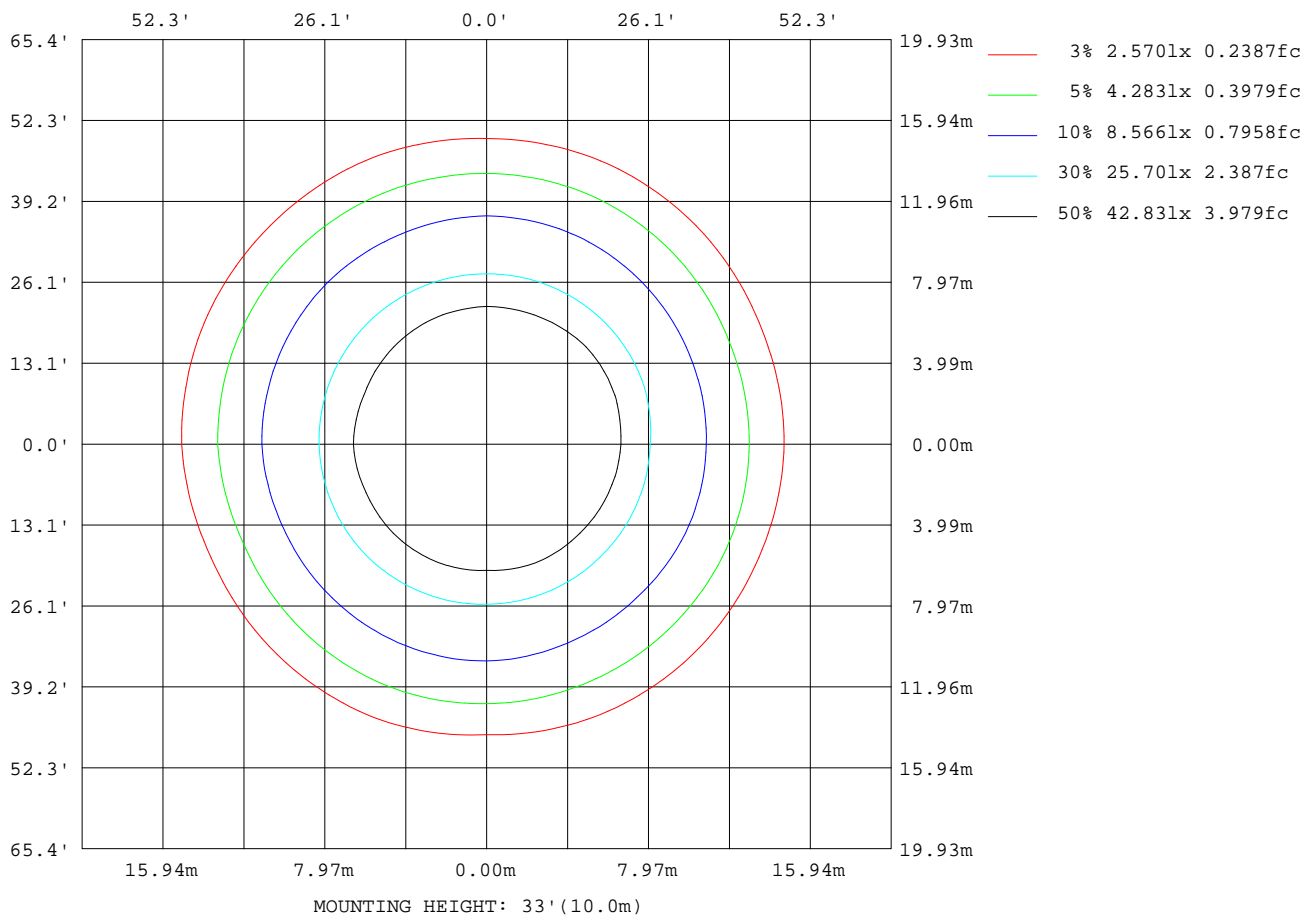
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:01  
 Test Date:2023-03-02

γ Range: 0 - 100DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

Test:U:240.77V I:0.5073A P:119.83W PF:0.9812 Freq:49.99Hz Lamp Flux:16218.3x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP120W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: 01  
Test Date: 2023-03-02

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity: 65.0%  
Test Distance: 8.750m [K=1.0000]  
Remarks:

## LED Avg.L Report

Test:U:240.77V I:0.5073A P:119.83W PF:0.9812 Freq:49.99Hz Lamp Flux:16218.3x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP120W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:

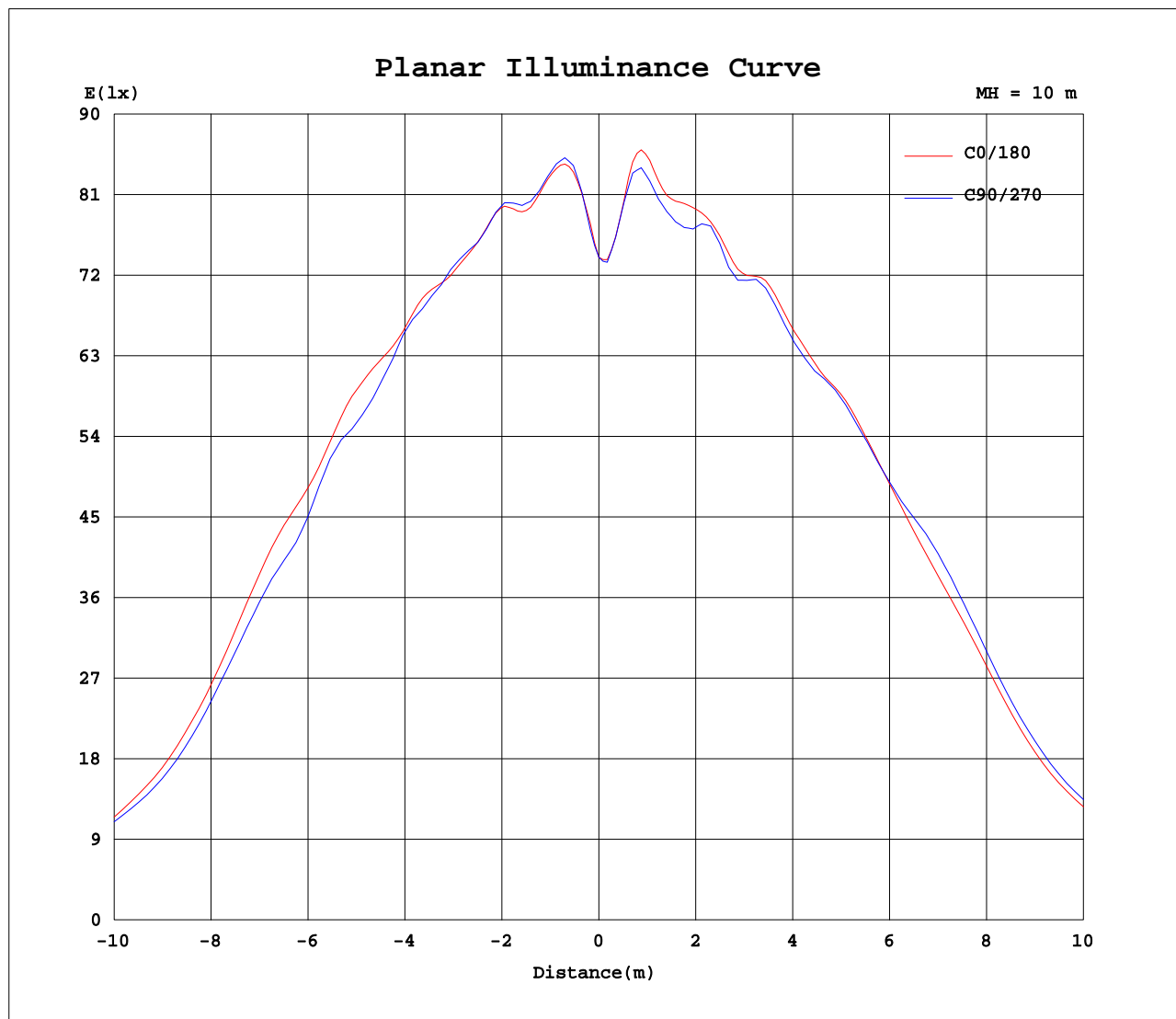
AvgL	cd/m2
L_0~180(65)av	35649
L_0~180(75)av	23845
L_0~180(85)av	9064
L_90~270(65)av	34577
L_90~270(75)av	23789
L_90~270(85)av	8391
L_45(65)av	34449
L_45(75)av	23492
L_45(85)av	9150

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:01  
 Test Date:2023-03-02

γ Range: 0 - 100DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: 01  
Test Date: 2023-03-02

$\gamma$  Range: 0 - 100DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
Humidity: 65.0%  
Test Distance: 8.750m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.77V I:0.5073A P:119.83W PF:0.9812 Freq:49.99Hz Lamp Flux:16218.3x1 lm																		
NAME: ECOHB120LSE5G7 with wireguard									TYPE:Highbay					WEIGHT:				
SPEC.:DIP120W									DIM.: D290					SERIAL No.:				
MFR.: Eastfield									SUR.:D238					Shielding Angle:				

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401
5	8488	8479	8469	8459	8455	8464	8484	8506	8524	8531	8505	8478	8449	8435	8444	8468	8496	8524	8541
10	8315	8323	8330	8338	8348	8356	8362	8368	8373	8368	8329	8289	8250	8214	8229	8275	8319	8363	8383
15	8260	8241	8224	8200	8185	8187	8205	8226	8249	8268	8269	8268	8265	8263	8267	8273	8284	8292	8299
20	8368	8370	8373	8379	8385	8374	8353	8329	8306	8286	8280	8275	8271	8266	8261	8253	8246	8236	8226
25	8272	8240	8209	8179	8148	8127	8115	8103	8090	8080	8097	8114	8134	8151	8115	8042	7968	7895	7827
30	7787	7743	7696	7647	7596	7568	7556	7546	7533	7522	7527	7535	7542	7549	7540	7517	7495	7468	7452
35	7028	6969	6914	6858	6800	6745	6689	6634	6579	6525	6508	6491	6473	6456	6449	6449	6453	6453	6463
40	4949	4893	4837	4780	4725	4680	4643	4607	4573	4538	4531	4525	4518	4512	4517	4531	4546	4560	4573
45	3253	3233	3210	3187	3165	3134	3095	3057	3017	2980	2979	2978	2978	2977	2992	3019	3046	3074	3102
50	2212	2209	2205	2201	2198	2185	2162	2141	2119	2098	2100	2102	2104	2105	2109	2116	2122	2129	2137
55	1509	1498	1488	1478	1467	1461	1458	1456	1454	1452	1447	1441	1435	1429	1420	1408	1396	1384	1369
60	971	963	953	943	933	929	930	931	931	932	934	937	940	943	943	939	937	933	933
65	628	622	615	608	601	598	599	600	600	600	601	602	604	605	602	597	590	585	581
70	395	395	395	395	395	396	397	399	401	402	402	402	402	402	399	393	388	383	378
75	230	230	231	231	231	232	234	237	239	241	243	245	247	249	250	250	249	249	249
80	83.3	82.2	81.2	79.7	78.2	78.3	80.8	83.7	85.8	88.1	89.9	91.2	92.6	94.1	94.9	95.2	95.5	96.0	95.9
85	20.2	20.1	19.9	19.8	19.5	19.6	20.3	20.8	21.3	21.9	22.8	23.8	24.7	25.7	26.3	26.4	26.6	26.8	26.9
90	7.47	7.50	7.54	7.58	7.62	7.57	7.44	7.32	7.19	7.07	6.84	6.62	6.41	6.20	5.98	5.74	5.47	5.19	4.89
95	11.4	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.4	11.4	11.5	11.5	11.4	11.3	11.2	11.1
100	12.0	11.9	11.4	11.5	11.6	12.1	12.1	11.6	12.0	12.1	11.8	11.9	12.0	12.0	12.0	12.1	11.9	11.4	12.7
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:01  
 Test Date:2023-03-02

γ Range: 0 - 100DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.77V I:0.5073A P:119.83W PF:0.9812 Freq:49.99Hz Lamp Flux:16218.3x1 lm																			
NAME: ECOHB120LSE5G7 with wireguard										TYPE:Highbay					WEIGHT:				
SPEC.:DIP120W										DIM.: D290					SERIAL No.:				
MFR.: Eastfield										SUR.:D238					Shielding Angle:				

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401
5	8537	8531	8525	8523	8525	8521	8522	8518	8524	8526	8534	8538	8551	8565	8594	8630	8666	8699	8681
10	8322	8263	8203	8147	8161	8214	8264	8314	8345	8302	8255	8208	8161	8171	8223	8274	8326	8377	8338
15	8293	8287	8279	8270	8243	8205	8170	8133	8105	8124	8145	8166	8189	8206	8219	8233	8246	8260	8260
20	8216	8204	8191	8178	8183	8202	8220	8238	8253	8251	8247	8245	8240	8259	8296	8331	8371	8411	8408
25	7868	7903	7940	7977	7975	7945	7916	7888	7865	7899	7935	7971	8007	8039	8067	8095	8122	8147	8147
30	7470	7499	7522	7549	7559	7556	7555	7555	7554	7572	7591	7612	7629	7667	7715	7766	7818	7870	7873
35	6465	6477	6487	6499	6522	6555	6589	6622	6656	6699	6744	6787	6834	6869	6900	6929	6959	6990	7006
40	4607	4639	4670	4701	4746	4803	4859	4915	4970	5011	5053	5095	5136	5184	5239	5292	5347	5404	5434
45	3111	3121	3130	3141	3151	3161	3171	3181	3192	3224	3257	3289	3322	3365	3416	3469	3522	3574	3596
50	2147	2159	2171	2183	2188	2187	2186	2186	2186	2192	2199	2206	2214	2240	2284	2329	2374	2419	2428
55	1396	1420	1443	1467	1480	1484	1488	1492	1498	1501	1504	1508	1512	1533	1571	1609	1647	1686	1694
60	942	953	964	974	980	981	982	983	985	992	999	1007	1014	1032	1059	1087	1114	1142	1141
65	587	594	602	610	612	608	605	602	599	608	617	625	634	646	662	679	695	710	712
70	385	392	399	406	410	409	408	406	406	408	411	413	416	423	435	446	458	469	466
75	254	259	265	270	272	272	272	272	272	275	278	280	283	288	295	303	310	318	315
80	97.5	98.7	99.9	101	103	106	109	112	115	116	118	119	121	124	129	133	138	142	142
85	27.1	27.2	27.3	27.4	28.7	30.8	33.0	35.1	37.1	38.3	39.5	40.7	42.0	43.3	44.8	46.5	48.2	49.9	49.2
90	4.88	4.87	4.85	4.82	4.97	5.31	5.63	5.94	6.25	6.31	6.37	6.42	6.47	6.55	6.65	6.75	6.85	6.96	6.95
95	11.0	10.8	10.6	10.5	10.5	10.6	10.7	10.8	11.0	10.9	10.8	10.7	10.7	10.5	10.3	10.1	9.97	9.78	9.85
100	11.2	11.6	11.4	11.1	10.9	10.7	10.4	10.00	10.2	10.0	9.54	10.1	10.1	9.37	9.19	9.13	9.63	9.87	9.66
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:01  
 Test Date:2023-03-02

γ Range: 0 - 100DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.77V I:0.5073A P:119.83W PF:0.9812 Freq:49.99Hz Lamp Flux:16218.3x1 lm																			
NAME: ECOHB120LSE5G7 with wireguard										TYPE:Highbay					WEIGHT:				
SPEC.:DIP120W										DIM.: D290					SERIAL No.:				
MFR.: Eastfield										SUR.:D238					Shielding Angle:				

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401
5	8657	8634	8617	8611	8588	8577	8557	8548	8537	8543	8539	8547	8533	8521	8514	8508	8498	8492	8487
10	8300	8260	8221	8201	8208	8214	8220	8226	8225	8224	8222	8221	8212	8185	8159	8128	8097	8104	8123
15	8261	8259	8261	8258	8250	8245	8239	8233	8228	8223	8217	8211	8198	8171	8154	8122	8089	8089	8095
20	8406	8408	8409	8404	8401	8393	8386	8383	8369	8359	8348	8340	8324	8310	8297	8285	8275	8270	8265
25	8145	8142	8138	8134	8131	8129	8127	8126	8143	8162	8181	8200	8201	8179	8156	8132	8111	8122	8138
30	7875	7878	7886	7886	7890	7888	7890	7892	7905	7916	7928	7941	7938	7916	7893	7871	7846	7884	7924
35	7024	7043	7059	7080	7099	7121	7142	7165	7197	7232	7264	7299	7331	7357	7383	7408	7442	7435	7437
40	5467	5501	5533	5561	5583	5605	5626	5648	5659	5669	5679	5692	5699	5701	5703	5706	5709	5710	5709
45	3617	3638	3663	3678	3686	3696	3704	3714	3713	3713	3713	3714	3723	3743	3763	3783	3802	3789	3774
50	2437	2446	2457	2464	2468	2474	2479	2484	2492	2501	2508	2516	2524	2534	2541	2552	2560	2549	2537
55	1704	1714	1723	1729	1730	1732	1733	1735	1739	1743	1746	1750	1744	1729	1715	1700	1684	1688	1691
60	1140	1140	1139	1141	1147	1152	1157	1162	1166	1171	1176	1181	1180	1173	1165	1158	1150	1142	1135
65	714	715	716	719	723	727	731	735	734	735	736	737	735	730	726	721	717	714	712
70	462	458	455	455	461	466	472	477	475	473	471	469	466	463	461	457	454	454	453
75	312	310	307	306	307	309	310	312	311	309	308	307	306	304	302	300	298	293	288
80	141	140	140	139	140	141	141	142	141	139	138	137	135	131	128	125	121	118	114
85	48.5	47.7	47.1	47.6	48.2	49.4	50.6	51.5	50.6	49.7	48.8	47.9	46.4	44.4	42.4	40.4	38.0	36.7	35.2
90	6.94	6.94	6.94	6.94	6.93	6.92	6.92	6.91	6.74	6.56	6.37	6.18	5.99	5.80	5.60	5.38	5.15	5.31	5.46
95	9.91	9.96	10.0	10.2	10.3	10.5	10.7	10.9	10.9	10.9	10.9	10.9	10.9	10.8	10.6	10.5	10.3	10.4	10.4
100	9.19	9.28	9.50	10.3	10.4	9.93	10.5	10.8	10.5	10.9	11.1	11.2	11.4	11.9	12.1	11.8	13.4	12.0	12.6
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:01  
 Test Date:2023-03-02

γ Range: 0 - 100DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:8.750m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.77V I:0.5073A P:119.83W PF:0.9812 Freq:49.99Hz Lamp Flux:16218.3x1 lm																	
NAME: ECOHB120LSE5G7 with wireguard									TYPE:Highbay						WEIGHT:		
SPEC.:DIP120W									DIM.: D290						SERIAL No.:		
MFR.: Eastfield									SUR.:D238						Shielding Angle:		

Table--4

UNIT: cd

C(DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401	7401				
5	8482	8482	8487	8476	8463	8450	8442	8445	8459	8471	8487	8489	8489	8490	8490				
10	8139	8152	8154	8132	8108	8079	8055	8063	8082	8100	8117	8146	8189	8231	8272				
15	8082	8084	8081	8083	8090	8093	8097	8090	8080	8068	8061	8076	8119	8170	8214				
20	8262	8258	8251	8235	8220	8205	8192	8197	8205	8213	8218	8237	8268	8298	8333				
25	8155	8173	8174	8152	8128	8106	8084	8084	8088	8091	8094	8113	8152	8192	8232				
30	7965	8005	8017	7991	7966	7942	7916	7894	7872	7849	7827	7812	7809	7804	7797				
35	7435	7435	7451	7486	7523	7555	7588	7558	7526	7492	7463	7399	7308	7213	7119				
40	5709	5709	5699	5676	5653	5630	5606	5573	5537	5502	5467	5395	5284	5173	5061				
45	3758	3744	3725	3701	3676	3651	3626	3583	3539	3494	3450	3410	3369	3332	3294				
50	2525	2512	2493	2465	2437	2408	2380	2354	2329	2303	2277	2258	2247	2236	2224				
55	1693	1696	1688	1668	1649	1629	1609	1590	1572	1553	1535	1523	1520	1516	1513				
60	1127	1119	1107	1091	1075	1059	1042	1029	1015	1001	987	979	978	976	974				
65	709	706	699	687	675	663	651	646	641	636	631	629	629	629	629				
70	452	451	447	439	431	422	415	410	405	401	396	394	394	395	395				
75	282	277	272	268	263	259	255	252	249	246	243	240	238	235	233				
80	111	107	105	105	104	104	103	101	99.3	97.0	94.9	93.2	91.0	88.6	85.9				
85	33.6	32.0	31.2	31.2	31.2	31.2	31.1	30.5	29.8	29.0	28.4	27.1	25.4	23.8	22.0				
90	5.59	5.71	5.84	5.99	6.14	6.28	6.41	6.47	6.53	6.59	6.65	6.76	6.94	7.11	7.29				
95	10.4	10.4	10.5	10.5	10.6	10.7	10.7	10.7	10.8	10.9	10.8	11.0	11.0	11.1	11.2				
100	12.9	12.7	12.7	12.6	12.5	12.2	12.5	12.4	11.9	12.4	12.3	11.6	11.5	11.5	11.9				
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
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