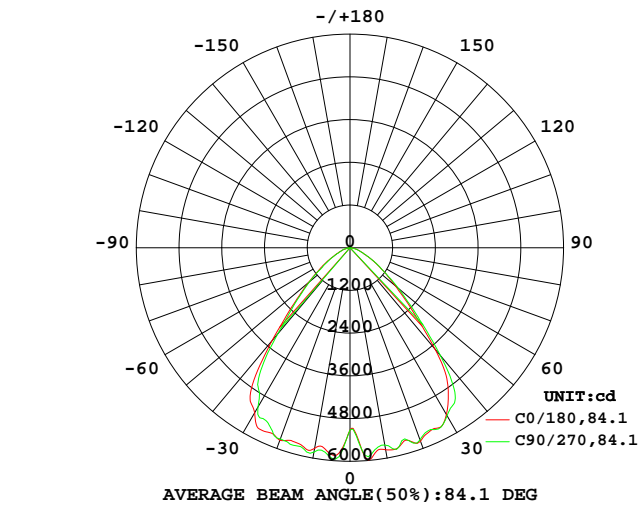


## LUMINAIRE PHOTOMETRIC TEST REPORT

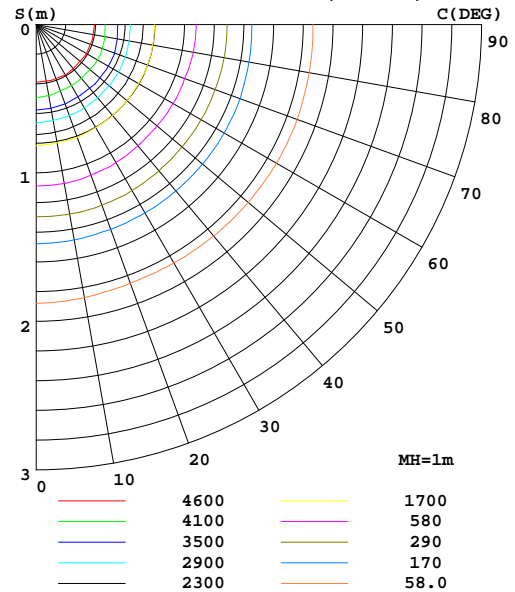
Test:U:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP80W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.25 lm/W			
MODEL	1	Imax(cd)	5983	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)	11223	$\eta$ UP,DN(C0-180)	0.0,48.3
NOMINAL FLUX(lm)	11223.5	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

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM(UNIT:lx)



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	5719	5786	5823	5812	5761	5686	5623	5611	0- 10	546.6	546.6	4.87,4.87
20	5756	5729	5714	5750	5784	5795	5746	5707	10- 20	1625	2172	19.3,19.3
30	5357	5203	5175	5260	5413	5454	5448	5515	20- 30	2588	4760	42.4,42.4
40	3401	3134	3163	3443	3715	3899	3947	3885	30- 40	2922	7681	68.4,68.4
50	1520	1452	1482	1519	1663	1714	1769	1650	40- 50	1859	9541	85,85
60	666.9	643.8	646.7	683.8	784.2	802.0	795.8	723.0	50- 60	986.3	10527	93.8,93.8
70	271.3	277.4	261.9	281.3	322.5	328.4	313.8	287.8	60- 70	464.1	10991	97.9,97.9
80	56.24	59.97	65.83	79.54	96.74	96.93	83.31	70.99	70- 80	194.4	11186	99.7,99.7
90	4.110	3.841	2.353	3.314	3.761	3.716	2.520	3.412	80- 90	30.20	11216	99.9,99.9
100	7.228	7.356	7.758	6.211	5.906	6.577	8.254	7.684	90-100	6.615	11223	100,100
110	0	0	0	0	0	0	0	0	100-110	0.4360	11223	100,100
120	0	0	0	0	0	0	0	0	110-120	0	11223	100,100
130	0	0	0	0	0	0	0	0	120-130	0	11223	100,100
140	0	0	0	0	0	0	0	0	130-140	0	11223	100,100
150	0	0	0	0	0	0	0	0	140-150	0	11223	100,100
160	0	0	0	0	0	0	0	0	150-160	0	11223	100,100
170	0	0	0	0	0	0	0	0	160-170	0	11223	100,100
180	0	0	0	0	0	0	0	0	170-180	0	11223	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 8759.6 lm

%lum = 78.1%

%lamp = 78.0%

Conical surface Flux(120deg): 10527 lm

%lum = 93.8%

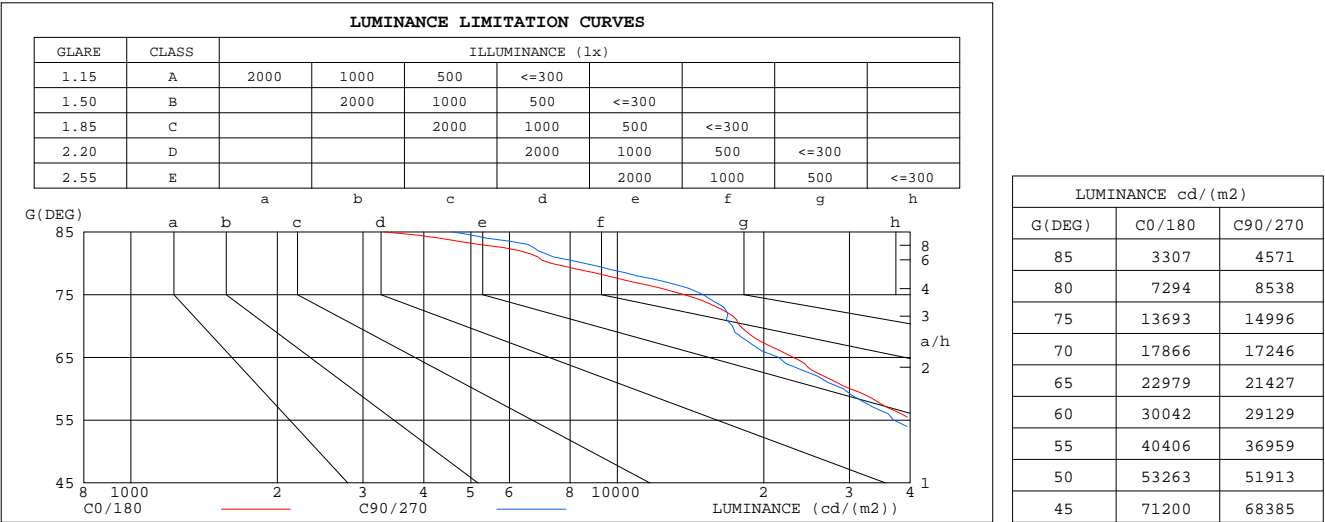
%lamp = 93.8%

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

LUMINANCE LIMITATION CURVES

Test:U:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP80W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:



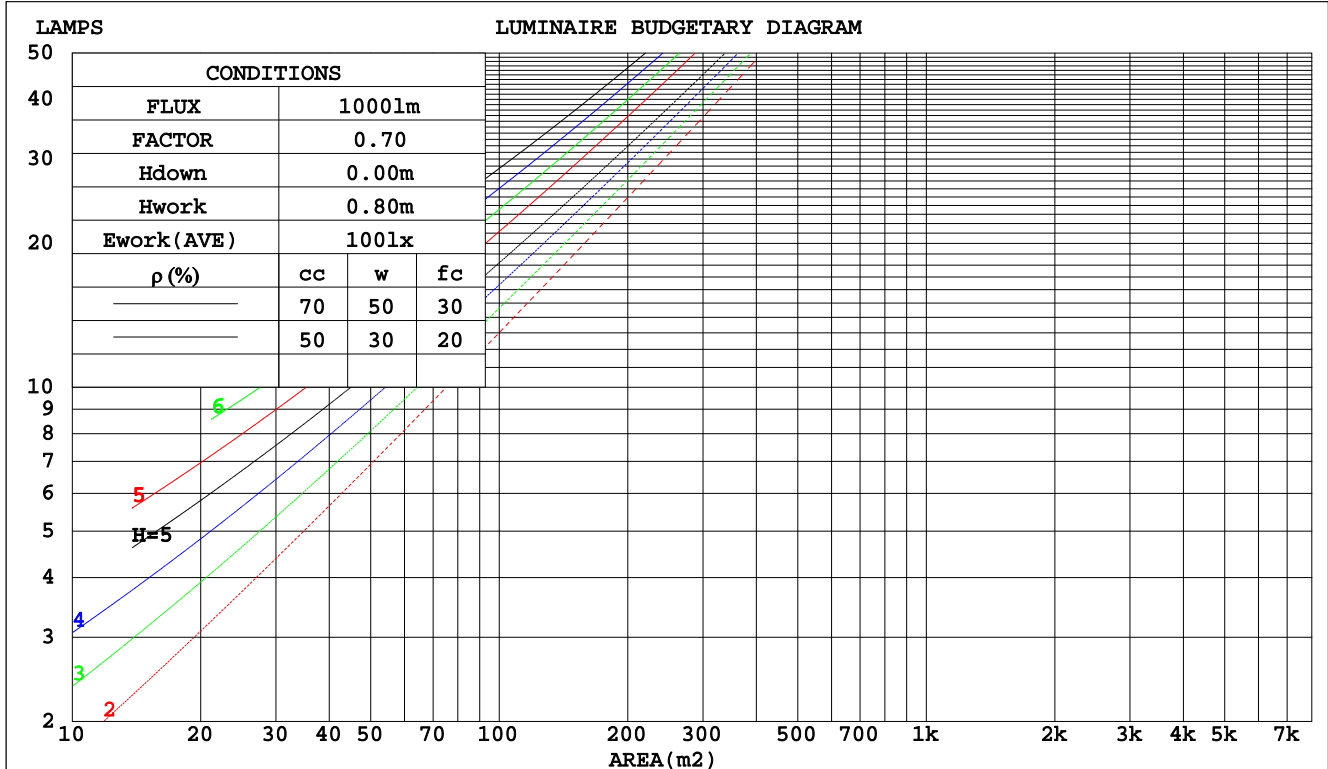
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:01  
Test Date:2023-03-02

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:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP80W	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	.90
2.0	.98	.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	.77	.71	.66	.74	.69	.65	.72	.68	.65	.63
5.0	.73	.66	.60	.72	.65	.60	.70	.64	.59	.68	.63	.59	.66	.62	.58	.56
6.0	.67	.59	.54	.66	.59	.54	.64	.58	.53	.63	.57	.53	.61	.56	.52	.51
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	.54	.48	.43	.52	.47	.43	.42
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

$\gamma$  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:

## WEC AND CCEC

Test:U:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP80W	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	.230	.131	.042	.224	.127	.041	.211	.121	.039	.199	.115	.037	.188	.109	.035	
2.0	.224	.123	.038	.218	.120	.037	.207	.115	.036	.196	.110	.034	.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	.173	.094	.029	
5.0	.191	.097	.028	.187	.096	.028	.179	.093	.027	.172	.091	.027	.166	.088	.027	
6.0	.180	.090	.026	.177	.089	.026	.170	.087	.025	.164	.085	.025	.158	.083	.025	
7.0	.171	.084	.024	.167	.083	.024	.161	.082	.024	.156	.080	.023	.151	.078	.023	
8.0	.162	.079	.022	.159	.078	.022	.154	.077	.022	.148	.075	.022	.144	.074	.021	
9.0	.153	.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	.121	.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	.100	.066	.125	.087	.057	.086	.060	.040	.050	.035	.024	.016	.012	.008	
5.0	.138	.089	.054	.119	.077	.047	.082	.054	.033	.047	.032	.020	.015	.010	.006	
6.0	.131	.081	.044	.113	.070	.039	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.125	.074	.038	.108	.064	.033	.074	.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	.098	.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:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm										
NAME: ECOHB120LSE5G7 with wireguard					TYPE:Highbay			WEIGHT:		
SPEC.:DIP80W					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	24.7	25.9	24.9	26.1	26.3	24.5	25.7	24.7	25.9	26.1
3H	24.9	26.1	25.2	26.3	26.5	24.7	25.8	25.0	26.1	26.3
4H	25.0	26.0	25.3	26.3	26.5	24.8	25.9	25.1	26.1	26.3
6H	24.9	25.9	25.2	26.2	26.5	24.8	25.8	25.1	26.0	26.3
8H	24.9	25.9	25.2	26.1	26.4	24.7	25.7	25.1	26.0	26.3
12H	24.8	25.8	25.2	26.1	26.4	24.7	25.6	25.0	25.9	26.2
4H 2H	24.7	25.8	25.0	26.0	26.3	24.5	25.6	24.8	25.8	26.1
3H	25.0	26.0	25.4	26.3	26.6	24.9	25.8	25.2	26.1	26.4
4H	25.2	26.0	25.5	26.3	26.6	25.0	25.9	25.4	26.2	26.5
6H	25.2	25.9	25.5	26.2	26.6	25.1	25.8	25.4	26.1	26.5
8H	25.1	25.8	25.5	26.2	26.6	25.0	25.7	25.4	26.1	26.5
12H	25.1	25.7	25.5	26.1	26.5	25.0	25.6	25.4	26.0	26.4
8H 4H	25.1	25.8	25.5	26.2	26.6	25.0	25.7	25.4	26.0	26.4
6H	25.2	25.7	25.6	26.1	26.5	25.1	25.6	25.5	26.0	26.4
8H	25.1	25.6	25.6	26.0	26.5	25.1	25.6	25.5	26.0	26.4
12H	25.1	25.5	25.6	26.0	26.4	25.0	25.5	25.5	25.9	26.4
12H 4H	25.1	25.7	25.5	26.1	26.5	25.0	25.6	25.4	26.0	26.4
6H	25.1	25.6	25.6	26.0	26.5	25.0	25.5	25.5	25.9	26.4
8H	25.1	25.5	25.6	26.0	26.4	25.0	25.5	25.5	25.9	26.4
Variations with the observer position at spacings:										
S = 1.0H	+ 1.3 / - 1.8					+ 1.2 / - 1.7				
1.5H	+ 1.9 / - 1.3					+ 1.6 / - 1.1				
2.0H	+ 2.4 / - 2.3					+ 2.2 / - 2.0				

CIE Pub.117, 11223 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 8.4$ )  
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:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP80W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:

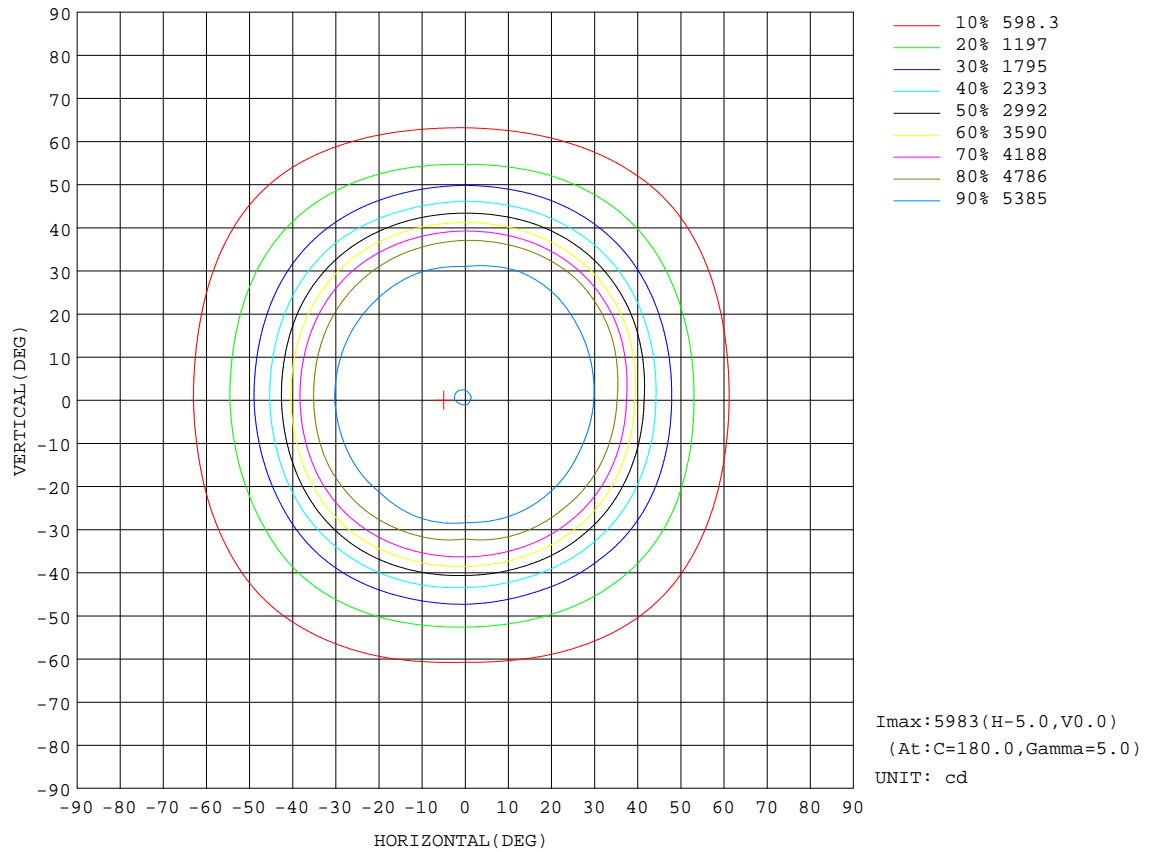
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	62	57	71	62	57	70	62	57	52
0.80	81	72	67	80	72	67	79	71	66	61
1.00	88	80	75	87	80	74	85	80	74	68
1.25	94	87	81	93	86	81	91	85	80	75
1.50	98	91	86	97	90	86	94	89	85	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:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP80W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:



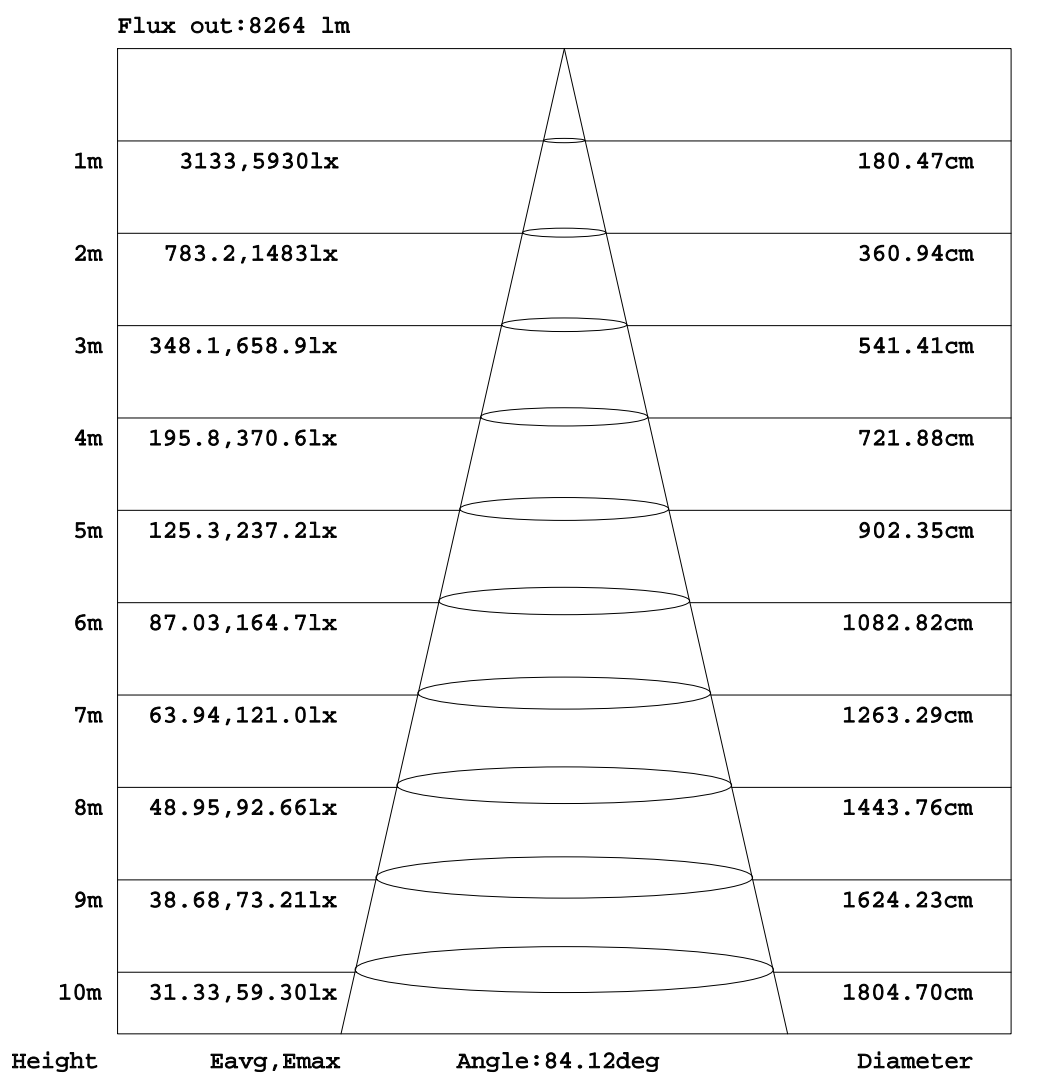
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:01  
Test Date:2023-03-02

$\gamma$  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:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP80W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:



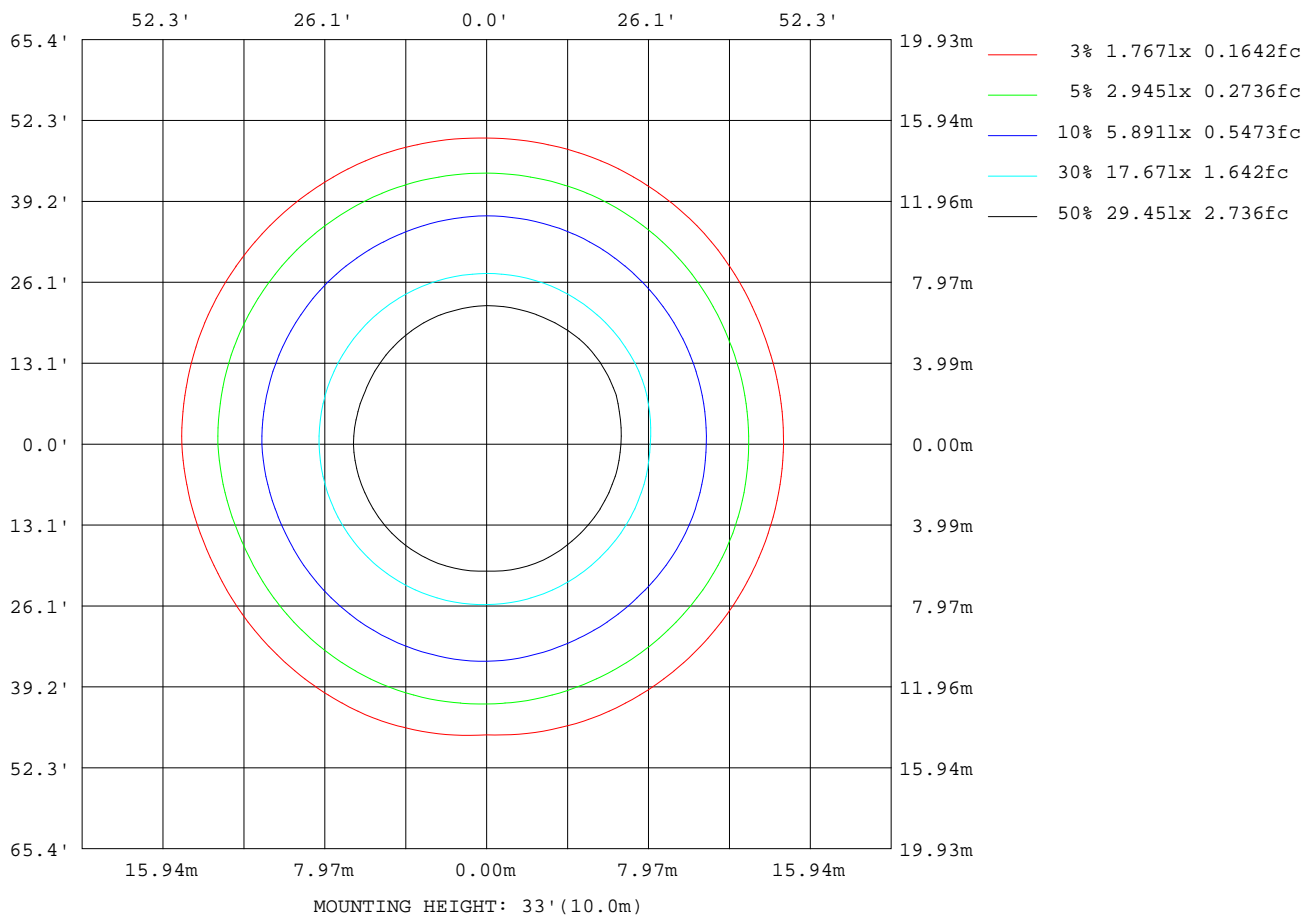
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators: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:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP80W	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:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP80W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:

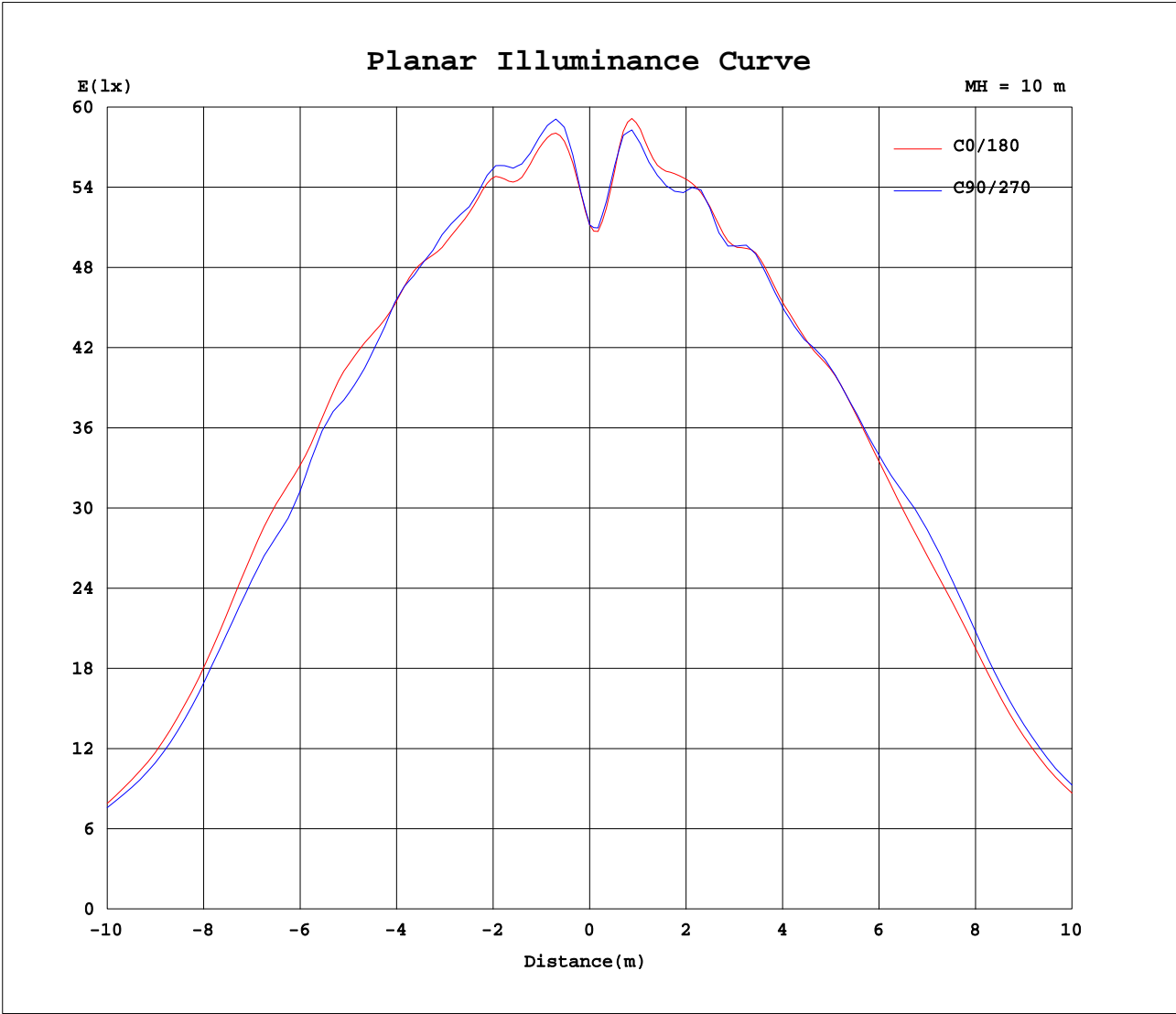
AvgL	cd/m2
L_0~180(65)av	24492
L_0~180(75)av	16236
L_0~180(85)av	5945
L_90~270(65)av	23949
L_90~270(75)av	16385
L_90~270(85)av	5562
L_45(65)av	23827
L_45(75)av	16200
L_45(85)av	6090

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	γ Range: 0 - 100DEG
C Interval: 5.0DEG	γ Interval: 0.5DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.421
Temperature:25.3DEG	Humidity:65.0%
Operators:01	Test Distance:8.750m [K=1.0000]
Test Date:2023-03-02	Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm																	
NAME: ECOHB120LSE5G7 with wireguard									TYPE:Highbay						WEIGHT:		
SPEC.:DIP80W									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	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119
5	5838	5835	5832	5829	5830	5840	5857	5876	5892	5900	5884	5869	5852	5845	5853	5872	5895	5916	5930
10	5719	5728	5736	5745	5755	5763	5772	5779	5786	5786	5762	5738	5713	5691	5705	5739	5773	5806	5823
15	5683	5673	5665	5653	5645	5650	5666	5684	5702	5718	5722	5724	5725	5726	5731	5738	5749	5757	5764
20	5756	5761	5767	5775	5783	5779	5767	5754	5740	5729	5728	5727	5727	5726	5725	5723	5721	5718	5714
25	5693	5673	5655	5637	5619	5607	5602	5597	5591	5587	5602	5616	5632	5646	5624	5576	5529	5481	5437
30	5357	5329	5300	5270	5238	5222	5217	5213	5208	5203	5209	5215	5222	5228	5224	5211	5199	5183	5175
35	4830	4793	4757	4722	4684	4649	4613	4578	4542	4507	4496	4486	4475	4465	4462	4464	4469	4471	4480
40	3401	3365	3328	3290	3255	3225	3201	3179	3157	3134	3131	3129	3126	3123	3127	3136	3146	3155	3163
45	2235	2222	2206	2191	2176	2156	2131	2107	2082	2058	2056	2053	2051	2049	2059	2081	2103	2125	2147
50	1520	1519	1517	1515	1514	1506	1492	1478	1464	1452	1453	1454	1455	1456	1459	1465	1470	1475	1482
55	1029	1024	1019	1014	1009	1005	1003	1000	998	995	994	992	991	988	983	973	964	954	941
60	667	662	655	649	642	640	641	642	643	644	646	648	650	652	653	650	649	647	647
65	431	427	423	418	414	412	413	414	414	414	415	416	418	419	417	413	409	405	402
70	271	272	272	272	272	273	274	275	276	277	277	278	278	278	276	273	269	265	262
75	157	158	158	158	158	159	161	163	165	166	168	169	170	172	172	172	172	172	172
80	56.2	55.5	54.8	53.9	52.9	53.0	54.7	56.8	58.3	60.0	61.3	62.2	63.2	64.2	64.9	65.1	65.4	65.8	65.8
85	12.8	12.7	12.6	12.5	12.4	12.4	13.0	13.3	13.7	14.1	14.8	15.4	16.1	16.7	17.1	17.3	17.4	17.6	17.7
90	4.11	4.13	4.16	4.18	4.21	4.18	4.09	4.01	3.92	3.84	3.69	3.54	3.40	3.25	3.10	2.94	2.75	2.56	2.35
95	6.79	6.77	6.75	6.74	6.74	6.76	6.75	6.76	6.75	6.76	6.80	6.84	6.88	6.92	6.92	6.87	6.82	6.76	6.65
100	7.23	7.11	6.86	6.88	6.95	7.28	7.32	7.03	7.28	7.36	7.15	7.25	7.32	7.29	7.29	7.40	7.25	6.97	7.76
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:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm																			
NAME: ECOHB120LSE5G7 with wireguard										TYPE:Highbay					WEIGHT:				
SPEC.:DIP80W										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	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119
5	5930	5928	5926	5927	5931	5930	5932	5931	5937	5940	5947	5951	5961	5959	5962	5970	5978	5983	5974
10	5782	5743	5703	5666	5678	5716	5753	5789	5812	5784	5753	5722	5690	5688	5706	5725	5743	5761	5738
15	5762	5760	5756	5751	5735	5711	5689	5666	5648	5663	5679	5694	5710	5713	5705	5697	5689	5681	5685
20	5708	5702	5694	5687	5692	5707	5722	5737	5750	5749	5748	5747	5745	5749	5757	5764	5774	5784	5786
25	5467	5493	5520	5547	5547	5529	5511	5493	5480	5504	5530	5556	5582	5596	5599	5601	5603	5603	5607
30	5189	5211	5227	5248	5256	5256	5257	5259	5260	5274	5287	5303	5315	5333	5351	5372	5392	5413	5418
35	4482	4492	4500	4509	4526	4550	4575	4599	4624	4654	4685	4716	4749	4768	4778	4787	4796	4806	4820
40	3188	3212	3234	3258	3289	3328	3366	3405	3443	3470	3498	3526	3554	3584	3616	3648	3681	3715	3738
45	2152	2159	2165	2171	2179	2188	2197	2205	2215	2234	2255	2274	2295	2321	2353	2386	2420	2452	2470
50	1489	1497	1505	1513	1517	1518	1518	1519	1519	1523	1527	1531	1535	1552	1579	1607	1635	1663	1670
55	964	982	999	1017	1026	1027	1028	1029	1032	1036	1040	1045	1049	1063	1087	1110	1133	1158	1162
60	653	661	668	675	680	680	681	682	684	689	694	699	705	716	733	750	767	784	784
65	407	412	417	423	424	422	420	418	416	423	429	435	440	448	458	469	479	488	490
70	267	272	277	281	284	283	282	281	281	283	285	287	289	294	301	308	315	322	320
75	176	179	182	186	187	188	188	189	189	191	192	194	196	199	203	207	211	216	214
80	66.9	67.8	68.7	69.6	71.1	73.2	75.3	77.5	79.5	80.5	81.5	82.3	83.3	85.4	88.4	91.3	93.9	96.7	96.5
85	17.8	17.9	17.9	18.0	18.9	20.4	22.0	23.5	24.9	25.7	26.6	27.4	28.3	29.1	30.1	31.1	32.2	33.2	32.8
90	2.35	2.33	2.31	2.29	2.39	2.63	2.87	3.09	3.31	3.35	3.39	3.42	3.45	3.50	3.56	3.63	3.69	3.76	3.75
95	6.57	6.46	6.34	6.22	6.22	6.33	6.42	6.49	6.60	6.57	6.47	6.39	6.41	6.25	6.10	5.96	5.82	5.66	5.72
100	6.89	7.09	6.99	6.75	6.65	6.54	6.34	6.11	6.21	6.13	5.84	6.19	6.17	5.73	5.59	5.52	5.79	5.91	5.80
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:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm																		
NAME: ECOHB120LSE5G7 with wireguard									TYPE:Highbay					WEIGHT:				
SPEC.:DIP80W									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	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119
5	5962	5950	5942	5941	5928	5924	5913	5909	5904	5911	5910	5919	5912	5906	5903	5901	5896	5894	5893
10	5715	5692	5668	5658	5666	5673	5680	5686	5689	5691	5693	5695	5691	5676	5660	5641	5623	5630	5644
15	5689	5692	5697	5698	5696	5695	5694	5693	5692	5692	5690	5688	5682	5666	5656	5636	5615	5617	5624
20	5789	5794	5799	5800	5800	5797	5794	5795	5789	5785	5781	5779	5771	5764	5757	5751	5746	5745	5743
25	5610	5611	5612	5613	5613	5613	5614	5615	5631	5648	5665	5683	5687	5674	5661	5647	5635	5645	5658
30	5424	5429	5438	5441	5446	5447	5451	5454	5467	5478	5490	5502	5503	5490	5476	5464	5448	5477	5506
35	4835	4851	4865	4881	4897	4914	4930	4947	4973	5001	5026	5053	5078	5097	5117	5135	5161	5158	5161
40	3762	3787	3811	3832	3849	3866	3882	3899	3908	3916	3925	3935	3941	3942	3944	3946	3947	3950	3952
45	2487	2504	2524	2536	2542	2549	2555	2562	2563	2564	2566	2567	2574	2586	2599	2611	2623	2616	2607
50	1677	1685	1694	1699	1702	1706	1710	1714	1720	1728	1734	1741	1747	1753	1758	1764	1769	1763	1756
55	1168	1173	1179	1184	1186	1190	1193	1196	1198	1199	1200	1201	1198	1190	1182	1174	1164	1166	1167
60	785	785	786	788	791	795	798	802	805	809	813	816	816	811	806	801	796	791	786
65	491	492	493	495	498	501	504	506	507	508	508	509	508	505	503	499	497	495	493
70	318	315	313	314	317	321	325	328	327	326	325	324	322	320	318	316	314	314	314
75	213	212	211	211	211	212	212	213	213	213	212	212	211	209	208	206	204	201	198
80	96.4	96.0	95.7	95.5	95.8	96.3	96.6	96.9	96.1	95.2	94.3	93.4	91.9	89.8	87.7	85.7	83.3	81.3	78.8
85	32.3	31.9	31.5	31.8	32.3	33.1	33.9	34.6	33.9	33.3	32.7	32.1	31.1	29.7	28.4	27.0	25.4	24.5	23.5
90	3.74	3.74	3.73	3.73	3.72	3.72	3.72	3.72	3.60	3.49	3.36	3.24	3.11	2.97	2.83	2.68	2.52	2.63	2.73
95	5.77	5.82	5.87	5.99	6.06	6.20	6.35	6.46	6.44	6.47	6.50	6.51	6.49	6.41	6.33	6.24	6.12	6.17	6.18
100	5.54	5.62	5.77	6.25	6.33	6.04	6.42	6.58	6.42	6.63	6.78	6.85	6.96	7.27	7.43	7.25	8.25	7.42	7.74
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:240.82V I:0.3421A P:79.455W PF:0.9645 Freq:49.99Hz Lamp Flux:11223.5x1 lm																	
NAME: ECOHB120LSE5G7 with wireguard									TYPE:Highbay						WEIGHT:		
SPEC.:DIP80W									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	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119	5119				
5	5892	5894	5900	5895	5889	5882	5879	5883	5895	5904	5916	5910	5894	5876	5857				
10	5656	5666	5670	5657	5642	5625	5611	5618	5632	5645	5659	5672	5684	5696	5707				
15	5617	5620	5621	5624	5631	5634	5639	5636	5631	5625	5622	5626	5638	5656	5668				
20	5743	5741	5738	5729	5722	5714	5707	5712	5719	5727	5732	5738	5741	5744	5750				
25	5672	5686	5688	5675	5660	5647	5633	5636	5640	5644	5648	5654	5663	5673	5682				
30	5536	5566	5577	5561	5546	5530	5515	5501	5488	5473	5460	5443	5423	5402	5381				
35	5161	5163	5175	5201	5227	5250	5274	5254	5233	5211	5191	5141	5065	4986	4907				
40	3953	3955	3949	3933	3918	3901	3885	3862	3837	3813	3788	3735	3652	3569	3485				
45	2598	2591	2577	2560	2542	2523	2505	2475	2445	2415	2385	2355	2324	2296	2267				
50	1749	1742	1729	1710	1690	1670	1650	1633	1616	1598	1580	1566	1555	1543	1532				
55	1168	1169	1163	1152	1140	1128	1116	1102	1087	1073	1058	1049	1044	1039	1034				
60	781	777	768	757	746	735	723	714	705	696	686	680	678	674	671				
65	491	489	484	476	468	460	452	448	445	442	439	436	435	434	433				
70	313	312	310	304	299	293	288	285	282	279	275	274	273	273	272				
75	195	192	189	186	182	179	176	175	173	171	170	168	165	163	160				
80	76.4	74.1	72.6	72.3	71.9	71.5	71.0	69.7	68.6	67.0	65.7	64.4	62.5	60.6	58.4				
85	22.4	21.3	20.8	20.8	20.8	20.7	20.7	20.3	19.8	19.3	19.0	18.0	16.7	15.5	14.1				
90	2.82	2.91	3.00	3.11	3.21	3.31	3.41	3.45	3.49	3.53	3.57	3.65	3.76	3.88	3.99				
95	6.17	6.18	6.22	6.27	6.33	6.39	6.41	6.42	6.46	6.51	6.48	6.57	6.61	6.65	6.71				
100	7.93	7.81	7.80	7.79	7.66	7.50	7.68	7.58	7.28	7.58	7.53	7.13	7.01	6.95	7.16				
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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