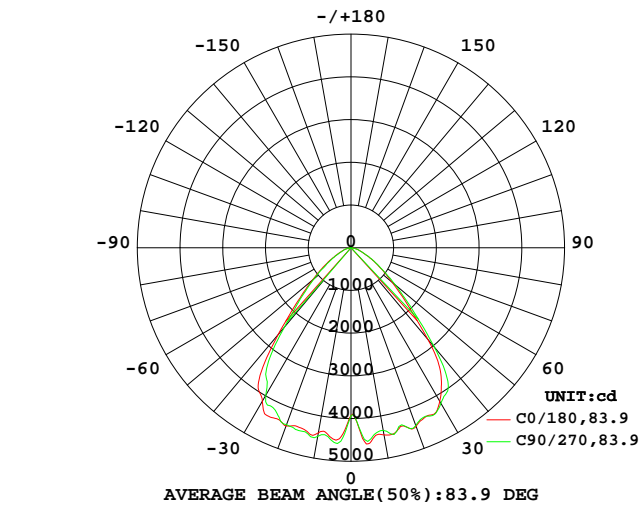


LUMINAIRE PHOTOMETRIC TEST REPORT

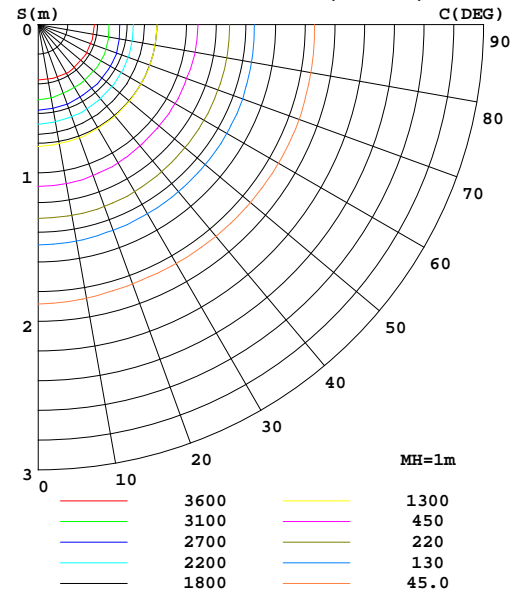
Test:U:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm					
NAME: ECOHB120LSE5G7 with wireguard			TYPE:Highbay		WEIGHT:
SPEC.:DIP60W			DIM.: D290		SERIAL No.:
MFR.: Eastfield			SUR.:D238		Shielding Angle:

DATA OF LAMP			PHOTOMETRIC DATA			Eff: 143.68 lm/W
MODEL	1		Imax(cd)	4609	S/MH(C0/180)	1.27
NOMINAL POWER(W)	120		LOR(%)	100.0	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	240		TOTAL FLUX(lm)	8637.2	η UP,DN(C0-180)	0.0,48.3
NOMINAL FLUX(lm)	8637.23		CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.7
LAMPS INSIDE	1		η up(%)	0.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	240		η 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

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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4397	4454	4483	4485	4448	4392	4342	4325	0- 10	421.6	421.6	4.88,4.88
20	4438	4420	4406	4431	4451	4463	4433	4403	10- 20	1253	1675	19.4,19.4
30	4151	4029	3990	4038	4155	4194	4205	4266	20- 30	1996	3671	42.5,42.5
40	2652	2439	2426	2610	2800	2959	3038	3026	30- 40	2248	5920	68.5,68.5
50	1183	1119	1131	1147	1258	1305	1358	1282	40- 50	1427	7347	85.1,85.1
60	524.9	502.2	497.5	519.5	593.5	610.3	611.7	562.8	50- 60	757.7	8104	93.8,93.8
70	211.9	215.6	201.4	214.2	241.5	247.1	238.9	222.6	60- 70	356.6	8461	98.98
80	44.99	47.42	50.28	59.13	71.47	72.39	63.63	56.01	70- 80	149.2	8610	99.7,99.7
90	2.223	2.046	1.010	1.713	1.919	1.908	1.129	1.826	80- 90	22.42	8633	99.9,99.9
100	4.907	4.885	5.206	3.370	2.953	3.594	5.580	5.097	90-100	4.228	8637	100,100
110	0	0	0	0	0	0	0	0	100-110	0.3066	8637	100,100
120	0	0	0	0	0	0	0	0	110-120	0	8637	100,100
130	0	0	0	0	0	0	0	0	120-130	0	8637	100,100
140	0	0	0	0	0	0	0	0	130-140	0	8637	100,100
150	0	0	0	0	0	0	0	0	140-150	0	8637	100,100
160	0	0	0	0	0	0	0	0	150-160	0	8637	100,100
170	0	0	0	0	0	0	0	0	160-170	0	8637	100,100
180	0	0	0	0	0	0	0	0	170-180	0	8637	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 6746.6 lm

%lum = 78.1%

%lamp = 78.1%

Conical surface Flux(120deg): 8104.5 lm

%lum = 93.8%

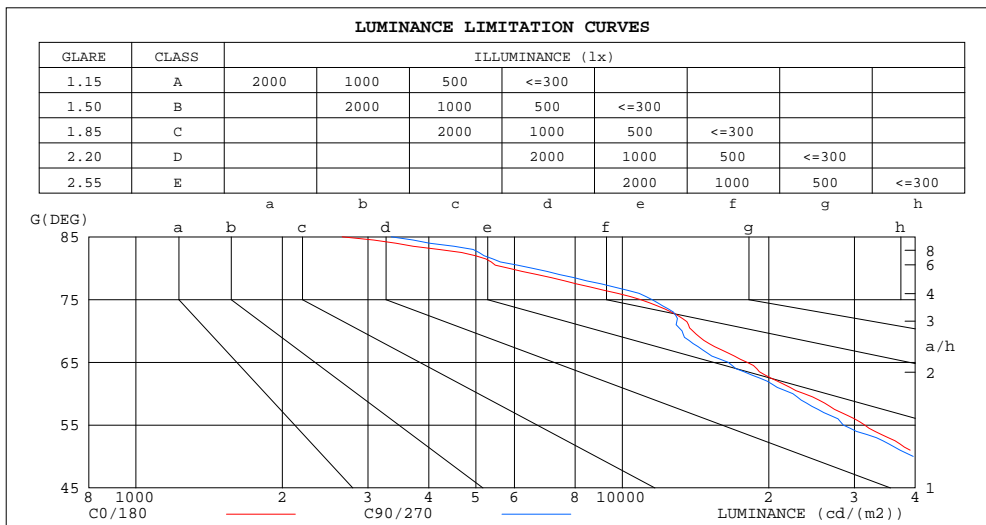
%lamp = 93.8%

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

γ Range: 0 - 100DEG
 γ Interval: 0.5DEG
 γ 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:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP60W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2657	3352
80	5835	6521
75	10893	11508
70	13955	13262
65	18040	16507
60	23646	22410
55	31502	28462
50	41446	39619
45	55665	52560

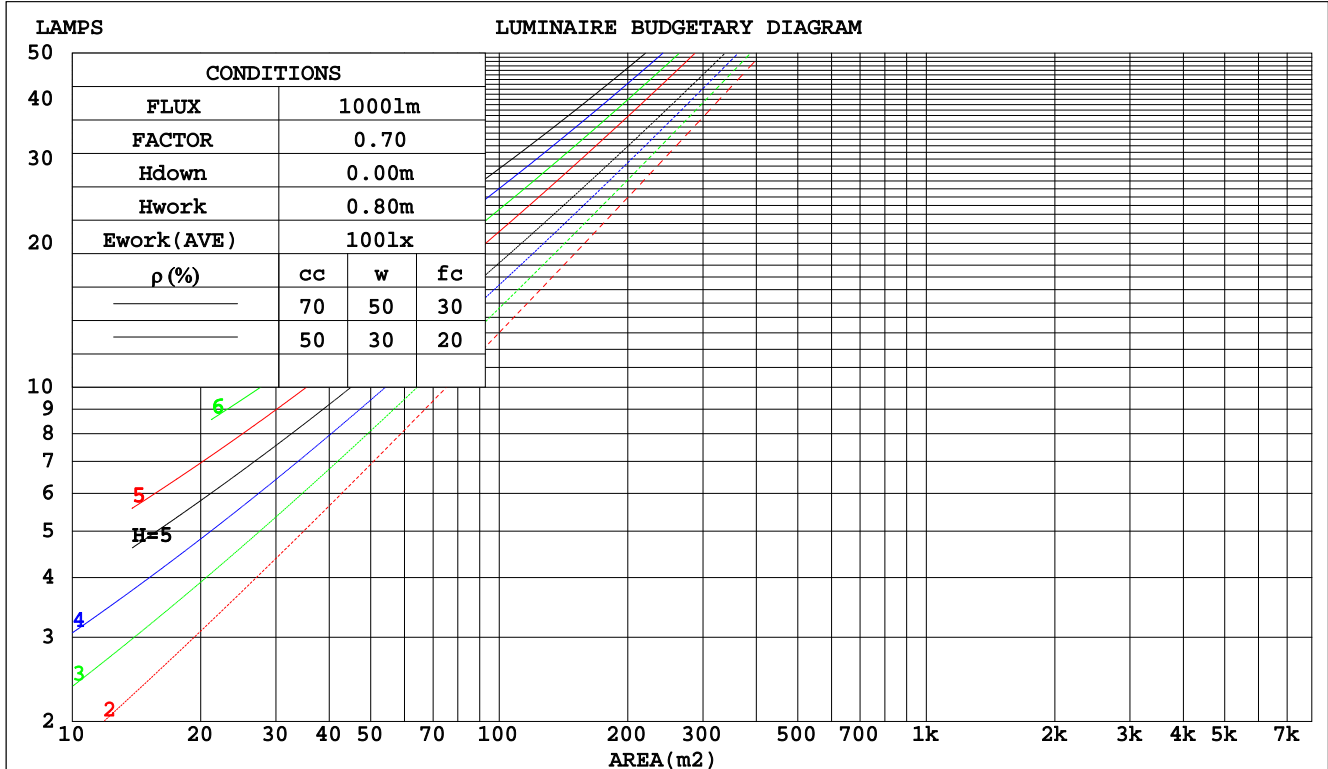
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:01
Test Date:2023-03-02

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:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP60W	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	.68	.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	.49	.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	.37	.46	.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:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm					
NAME: ECOHB120LSE5G7 with wireguard			TYPE:Highbay		WEIGHT:
SPEC.:DIP60W			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	.041	.223	.127	.040	.210	.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	.033	.198	.107	.033	.189	.104	.032	.181	.100	.031	
4.0	.202	.105	.031	.197	.103	.030	.189	.100	.030	.181	.097	.029	.173	.094	.029	
5.0	.191	.097	.028	.187	.096	.028	.179	.093	.027	.172	.091	.027	.165	.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	.153	.077	.022	.148	.075	.022	.144	.074	.021	
9.0	.153	.074	.021	.151	.074	.021	.146	.072	.020	.141	.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	.053	.119	.077	.047	.082	.054	.033	.047	.032	.019	.015	.010	.006	
6.0	.131	.081	.044	.113	.070	.039	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.125	.074	.037	.108	.064	.033	.074	.045	.023	.043	.026	.014	.014	.009	.005	
8.0	.119	.068	.032	.103	.059	.028	.071	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.114	.063	.028	.098	.054	.024	.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:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP60W	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	23.9	25.1	24.1	25.3	25.5	23.6	24.8	23.8	25.0	25.2
3H	24.1	25.2	24.4	25.4	25.7	23.8	25.0	24.1	25.2	25.4
4H	24.1	25.2	24.4	25.5	25.7	23.9	25.0	24.2	25.2	25.5
6H	24.1	25.1	24.4	25.4	25.6	23.9	24.9	24.2	25.2	25.4
8H	24.1	25.0	24.4	25.3	25.6	23.9	24.8	24.2	25.1	25.4
12H	24.0	25.0	24.4	25.2	25.5	23.8	24.7	24.1	25.0	25.3
4H 2H	23.9	25.0	24.2	25.2	25.4	23.6	24.7	23.9	24.9	25.2
3H	24.2	25.2	24.6	25.4	25.7	24.0	24.9	24.3	25.2	25.5
4H	24.3	25.2	24.7	25.5	25.8	24.1	25.0	24.5	25.3	25.6
6H	24.3	25.1	24.7	25.4	25.8	24.2	24.9	24.6	25.3	25.6
8H	24.3	25.0	24.7	25.4	25.7	24.2	24.8	24.6	25.2	25.6
12H	24.3	24.9	24.7	25.3	25.7	24.1	24.8	24.5	25.1	25.5
8H 4H	24.3	25.0	24.7	25.4	25.7	24.1	24.8	24.5	25.2	25.5
6H	24.3	24.9	24.8	25.3	25.7	24.2	24.8	24.6	25.1	25.6
8H	24.3	24.8	24.8	25.2	25.7	24.2	24.7	24.6	25.1	25.5
12H	24.3	24.7	24.8	25.2	25.6	24.2	24.6	24.6	25.0	25.5
12H 4H	24.3	24.9	24.7	25.3	25.7	24.1	24.7	24.5	25.1	25.5
6H	24.3	24.8	24.8	25.2	25.7	24.2	24.6	24.6	25.1	25.5
8H	24.3	24.7	24.8	25.2	25.6	24.2	24.6	24.6	25.0	25.5
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, 8637 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 7.5$)
Area: 0.0444 m²

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:

UTILIZATION FACTORS TABLE

Test:U:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP60W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:

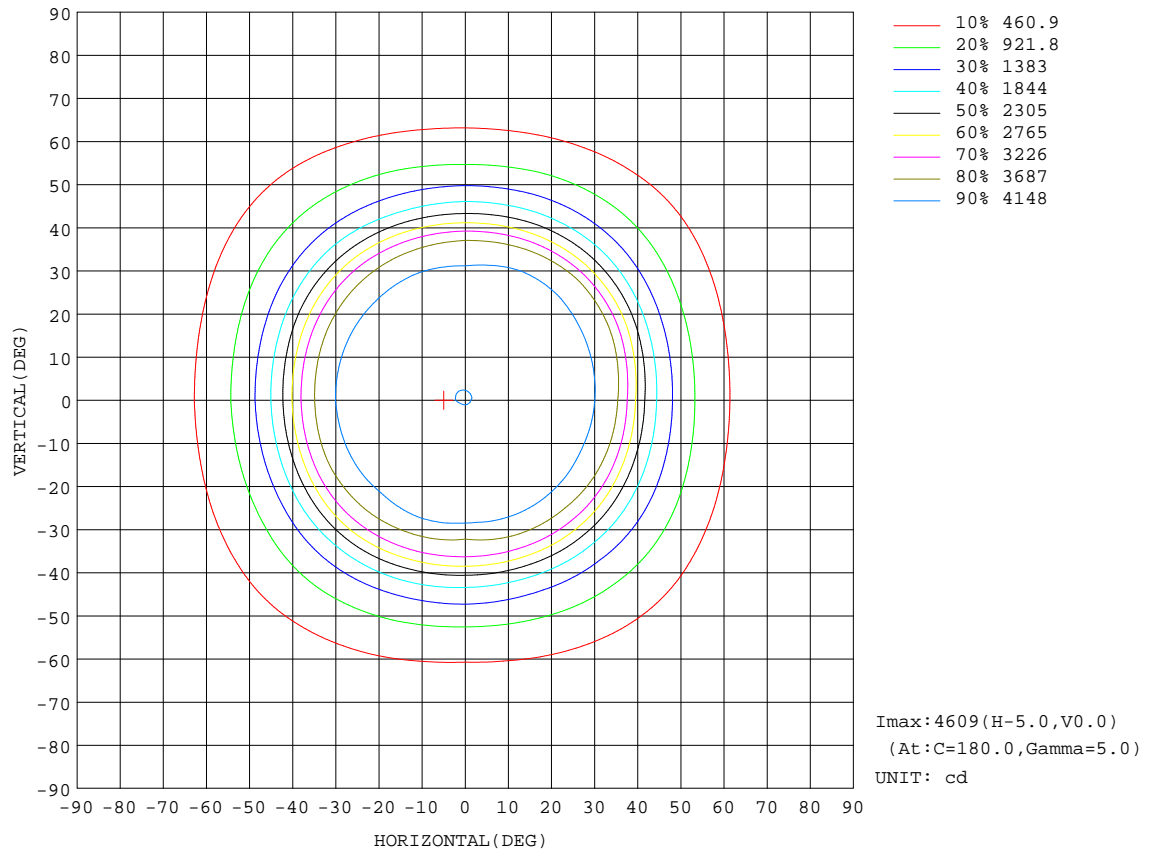
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	62	57	71	62	57	70	62	57	52
0.80	81	72	67	80	72	67	79	71	66	61
1.00	88	80	75	87	80	74	85	80	74	69
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	106	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:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP60W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:



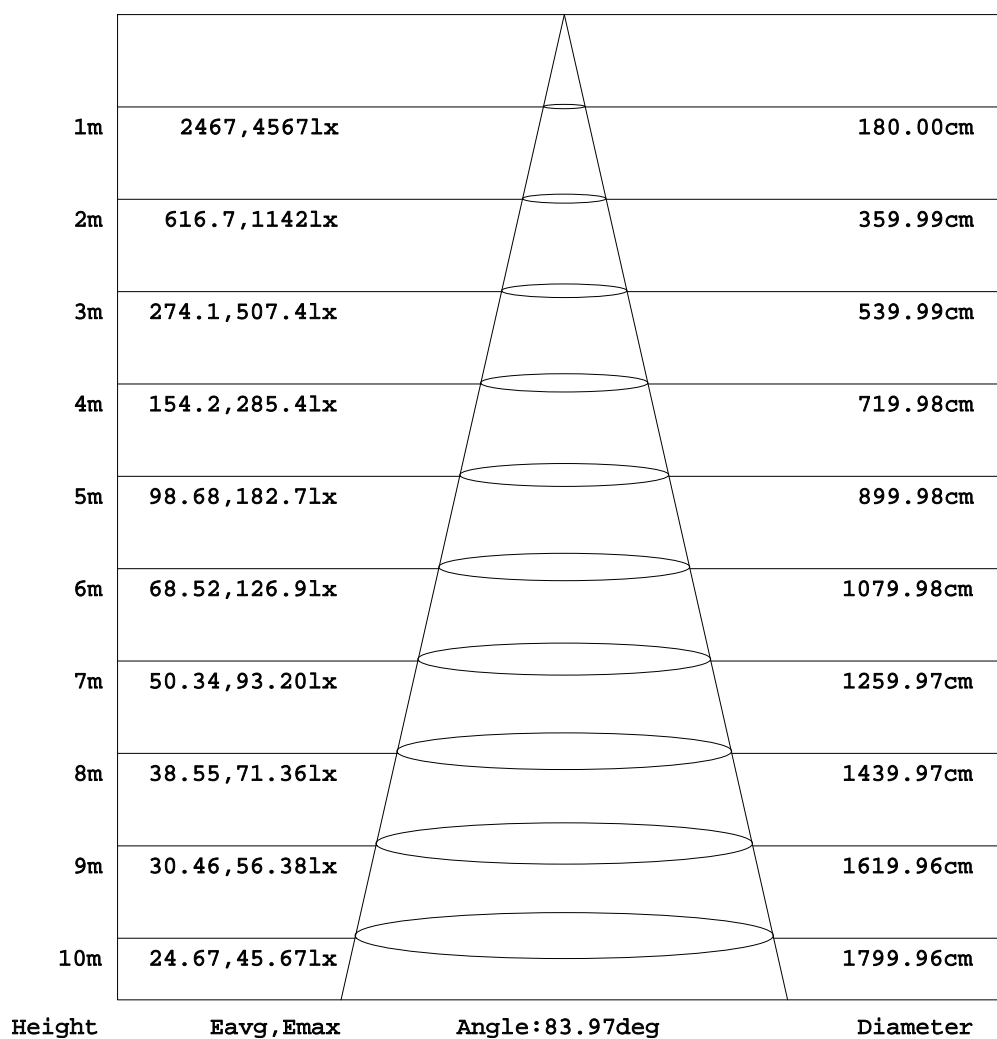
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:01
Test Date:2023-03-02

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:

AAI Figure

Test:U:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP60W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:

Flux out:6283 lm



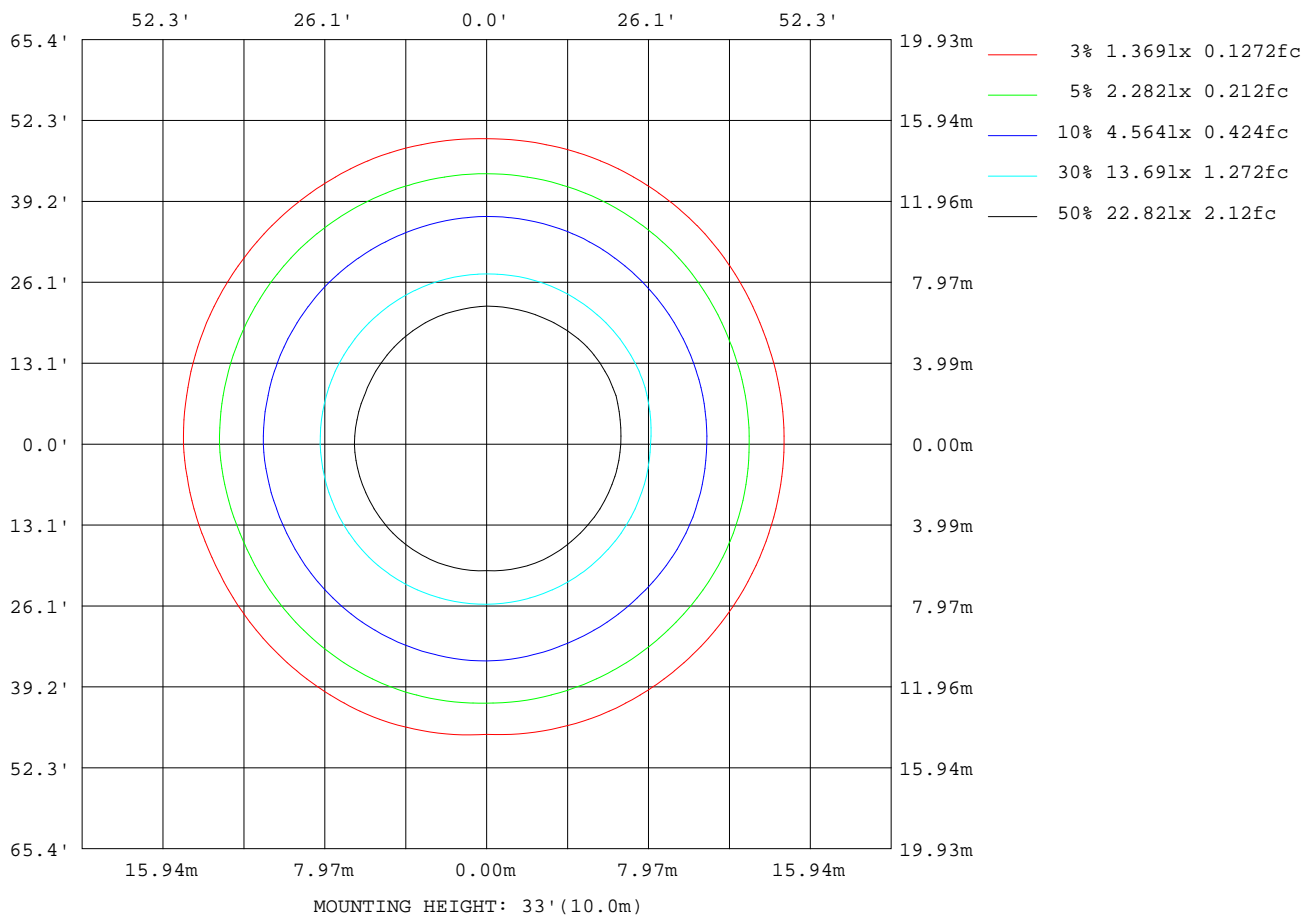
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP60W	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:

LED Avg.L Report

Test:U:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm		
NAME: ECOHB120LSE5G7 with wireguard	TYPE:Highbay	WEIGHT:
SPEC.:DIP60W	DIM.: D290	SERIAL No.:
MFR.: Eastfield	SUR.:D238	Shielding Angle:

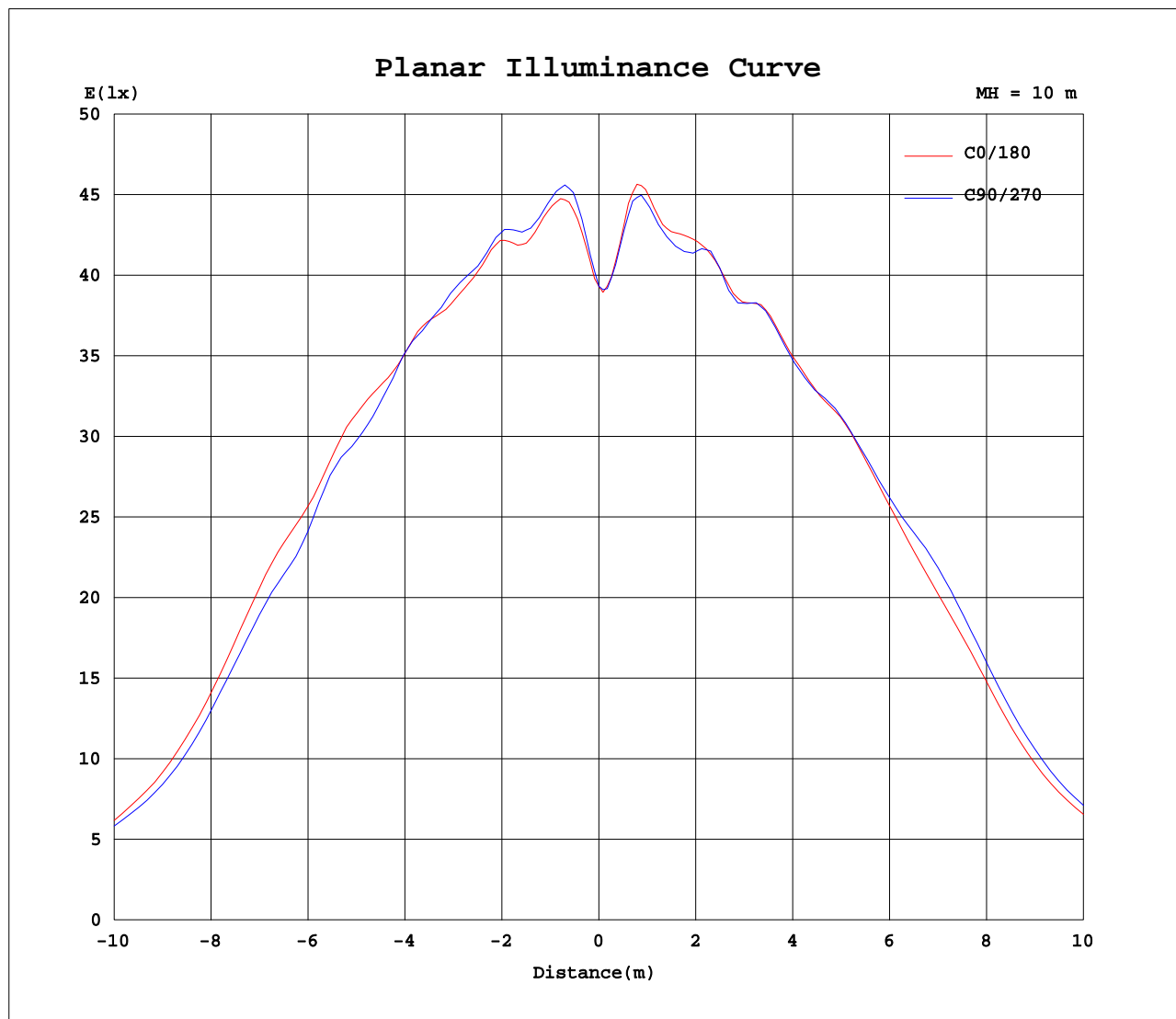
AvgL	cd/m2
L_0~180(65)av	18839
L_0~180(75)av	12516
L_0~180(85)av	4339
L_90~270(65)av	18427
L_90~270(75)av	12584
L_90~270(85)av	4111
L_45(65)av	18329
L_45(75)av	12450
L_45(85)av	4463

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

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:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm																		
NAME: ECOHB120LSE5G7 with wireguard									TYPE:Highbay					WEIGHT:				
SPEC.:DIP60W									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	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932
5	4506	4505	4503	4501	4503	4513	4526	4540	4549	4550	4538	4526	4514	4514	4523	4536	4553	4568	4573
10	4397	4403	4410	4416	4422	4431	4441	4449	4457	4454	4437	4417	4399	4388	4404	4431	4458	4482	4483
15	4385	4380	4376	4368	4364	4368	4377	4388	4400	4410	4414	4418	4420	4422	4426	4430	4437	4442	4446
20	4438	4443	4449	4456	4463	4459	4450	4439	4429	4420	4419	4418	4418	4417	4417	4415	4414	4411	4406
25	4387	4374	4361	4348	4336	4328	4322	4317	4312	4310	4321	4332	4344	4354	4333	4298	4261	4225	4196
30	4151	4130	4107	4083	4058	4046	4042	4038	4033	4029	4030	4033	4035	4037	4031	4020	4009	3994	3990
35	3748	3718	3690	3662	3632	3604	3574	3545	3516	3488	3478	3468	3458	3448	3443	3442	3442	3441	3447
40	2652	2624	2595	2565	2537	2513	2494	2476	2457	2439	2431	2424	2416	2408	2408	2412	2418	2423	2426
45	1748	1736	1723	1710	1698	1681	1662	1643	1623	1604	1600	1596	1592	1587	1594	1608	1622	1636	1650
50	1183	1183	1183	1182	1182	1174	1160	1146	1132	1119	1121	1124	1126	1127	1128	1129	1129	1129	1131
55	802	799	796	793	790	786	783	779	776	773	772	770	768	766	761	753	745	737	725
60	525	520	515	509	503	501	501	502	502	502	503	504	505	506	505	502	501	498	497
65	339	335	331	327	323	321	322	323	323	323	323	324	324	324	323	319	315	312	310
70	212	212	211	211	211	211	212	213	215	216	215	215	214	214	212	209	206	204	201
75	125	125	125	125	125	126	127	128	129	130	131	132	133	133	134	133	133	132	132
80	45.0	44.4	43.9	43.1	42.3	42.3	43.7	45.1	46.2	47.4	48.2	48.9	49.5	50.1	50.5	50.4	50.4	50.5	50.3
85	10.3	10.2	10.1	9.94	9.78	9.81	10.2	10.4	10.7	11.0	11.4	11.8	12.2	12.6	12.8	12.9	12.9	13.0	13.0
90	2.22	2.24	2.26	2.28	2.30	2.28	2.22	2.16	2.10	2.05	1.93	1.82	1.72	1.61	1.53	1.43	1.32	1.18	1.01
95	4.32	4.32	4.33	4.33	4.35	4.35	4.36	4.36	4.37	4.37	4.40	4.43	4.46	4.50	4.52	4.49	4.46	4.43	4.33
100	4.91	4.86	4.71	4.73	4.75	4.91	4.91	4.76	4.88	4.89	4.80	4.80	4.82	4.79	4.78	4.85	4.68	4.41	5.21
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:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm																		
NAME: ECOHB120LSE5G7 with wireguard									TYPE:Highbay					WEIGHT:				
SPEC.:DIP60W									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	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932
5	4572	4569	4565	4564	4565	4563	4562	4561	4564	4566	4570	4573	4579	4580	4585	4593	4602	4609	4603
10	4455	4427	4398	4375	4393	4422	4450	4477	4485	4467	4444	4420	4400	4399	4410	4423	4435	4448	4431
15	4444	4442	4437	4431	4417	4399	4383	4367	4358	4365	4375	4384	4393	4387	4383	4376	4371	4375	
20	4403	4398	4392	4386	4392	4402	4413	4423	4431	4431	4430	4430	4429	4431	4435	4439	4445	4451	4454
25	4217	4237	4258	4278	4275	4261	4247	4234	4226	4243	4262	4281	4300	4311	4315	4319	4323	4326	4329
30	3996	4011	4022	4036	4040	4038	4037	4037	4038	4046	4054	4063	4071	4085	4101	4119	4137	4155	4159
35	3445	3450	3455	3460	3472	3488	3505	3521	3538	3560	3583	3605	3630	3644	3652	3660	3668	3677	3689
40	2443	2457	2470	2484	2505	2532	2558	2585	2610	2627	2643	2660	2678	2699	2723	2748	2774	2800	2820
45	1652	1654	1656	1659	1663	1668	1673	1678	1685	1696	1709	1721	1735	1754	1778	1803	1829	1854	1867
50	1136	1144	1150	1157	1159	1155	1152	1149	1147	1151	1155	1159	1164	1177	1196	1217	1237	1258	1263
55	742	755	767	779	784	784	784	785	785	788	790	793	797	807	823	840	857	875	879
60	501	507	512	517	519	519	519	519	520	523	526	530	534	542	555	567	580	594	593
65	313	316	320	324	325	322	321	318	317	321	325	329	332	338	346	353	361	368	370
70	204	208	211	215	216	216	215	214	214	215	216	217	218	221	226	231	236	242	240
75	135	137	139	142	143	143	143	143	143	144	145	146	147	150	153	156	159	162	161
80	51.0	51.4	51.8	52.3	53.2	54.7	56.1	57.7	59.1	59.8	60.5	61.0	61.7	63.2	65.3	67.4	69.4	71.5	71.2
85	13.0	13.0	13.0	13.0	13.6	14.6	15.6	16.5	17.4	18.0	18.5	19.0	19.6	20.3	21.0	21.7	22.5	23.3	23.0
90	1.04	1.05	1.05	1.05	1.13	1.29	1.44	1.58	1.71	1.72	1.73	1.74	1.74	1.76	1.80	1.84	1.88	1.92	1.90
95	4.29	4.21	4.12	4.04	4.04	4.10	4.14	4.18	4.22	4.19	4.16	4.10	4.11	4.03	3.95	3.88	3.82	3.74	3.77
100	4.27	4.44	4.30	4.06	3.93	3.77	3.60	3.41	3.37	3.28	3.18	3.22	3.18	3.01	2.88	2.85	2.92	2.95	2.92
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:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm																		
NAME: ECOHB120LSE5G7 with wireguard									TYPE:Highbay					WEIGHT:				
SPEC.:DIP60W									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	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932
5	4595	4586	4581	4580	4571	4567	4560	4556	4552	4553	4555	4558	4554	4552	4551	4551	4549	4543	4539
10	4416	4399	4383	4375	4378	4383	4388	4392	4393	4394	4394	4395	4394	4383	4371	4356	4342	4343	4353
15	4380	4382	4386	4388	4385	4384	4383	4382	4383	4384	4384	4384	4382	4372	4365	4351	4334	4338	4344
20	4457	4462	4467	4468	4467	4465	4463	4463	4460	4458	4456	4455	4451	4444	4439	4436	4433	4431	4430
25	4331	4332	4333	4333	4334	4334	4335	4335	4346	4359	4372	4384	4389	4379	4369	4358	4349	4353	4363
30	4163	4168	4175	4177	4183	4186	4190	4194	4205	4215	4226	4237	4241	4232	4223	4215	4205	4225	4249
35	3702	3715	3727	3740	3752	3766	3780	3794	3814	3836	3857	3879	3900	3917	3935	3952	3976	3973	3978
40	2840	2862	2882	2901	2915	2929	2944	2959	2970	2980	2991	3003	3012	3018	3023	3030	3038	3042	3046
45	1878	1891	1906	1916	1923	1931	1939	1947	1949	1951	1953	1957	1964	1975	1988	2000	2010	2009	2006
50	1267	1272	1279	1284	1289	1294	1299	1305	1310	1317	1323	1329	1335	1341	1346	1352	1358	1356	1353
55	883	888	893	897	899	902	905	908	911	913	915	917	916	911	906	901	894	897	899
60	593	593	594	595	599	603	606	610	613	616	620	623	624	621	618	615	612	608	606
65	371	371	372	374	377	380	382	385	385	387	387	389	388	387	385	383	382	381	380
70	239	238	237	237	240	242	244	247	247	247	247	247	246	245	243	242	239	240	241
75	160	160	159	159	159	160	161	161	161	161	161	161	161	160	159	158	157	155	153
80	71.1	70.8	70.6	70.6	71.0	71.5	71.9	72.4	71.9	71.4	70.9	70.5	69.5	68.1	66.7	65.4	63.6	62.5	60.8
85	22.7	22.5	22.2	22.5	22.9	23.4	24.0	24.6	24.3	24.0	23.7	23.4	22.8	21.9	21.0	20.1	18.8	18.4	17.7
90	1.89	1.88	1.87	1.87	1.88	1.89	1.90	1.91	1.86	1.81	1.74	1.67	1.59	1.50	1.40	1.27	1.13	1.24	1.34
95	3.80	3.81	3.85	3.92	3.94	4.03	4.10	4.17	4.16	4.17	4.19	4.19	4.19	4.14	4.09	4.02	3.91	3.98	3.99
100	2.86	2.89	3.02	3.22	3.30	3.30	3.45	3.59	3.61	3.78	3.93	4.06	4.20	4.49	4.66	4.51	5.58	4.71	5.02
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:240.84V I:0.2643A P:60.112W PF:0.9443 Freq:49.99Hz Lamp Flux:8637.23x1 lm																	
NAME: ECOHB120LSE5G7 with wireguard									TYPE:Highbay						WEIGHT:		
SPEC.:DIP60W									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	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932	3932				
5	4538	4541	4546	4544	4540	4536	4534	4535	4542	4549	4556	4554	4545	4533	4520				
10	4362	4370	4374	4365	4352	4337	4325	4326	4335	4346	4357	4367	4376	4383	4390				
15	4340	4344	4345	4348	4354	4359	4364	4363	4360	4355	4352	4353	4360	4370	4377				
20	4430	4429	4426	4420	4414	4408	4403	4405	4410	4414	4417	4421	4424	4427	4433				
25	4374	4384	4387	4377	4365	4354	4344	4345	4348	4352	4355	4360	4367	4373	4380				
30	4273	4297	4309	4298	4288	4277	4266	4257	4248	4238	4229	4217	4202	4186	4169				
35	3979	3983	3992	4012	4032	4050	4067	4055	4040	4024	4009	3973	3919	3861	3803				
40	3050	3055	3055	3048	3041	3034	3026	3009	2991	2971	2951	2911	2848	2783	2718				
45	2002	2000	1993	1982	1970	1957	1945	1924	1903	1880	1858	1836	1814	1793	1771				
50	1350	1347	1339	1326	1312	1297	1282	1268	1254	1240	1225	1214	1206	1199	1192				
55	901	902	900	892	884	876	867	857	847	836	826	819	815	811	807				
60	603	600	595	587	579	571	563	557	550	544	537	533	532	530	528				
65	379	378	375	369	363	357	351	348	346	344	342	341	341	340	339				
70	241	241	239	235	231	227	223	220	218	216	214	213	213	213	212				
75	151	149	147	145	143	140	138	137	136	135	134	132	131	129	127				
80	59.2	57.6	56.7	56.6	56.4	56.3	56.0	55.2	54.4	53.4	52.4	51.4	50.0	48.4	46.7				
85	17.0	16.3	15.9	16.0	16.0	16.1	16.1	15.8	15.5	15.2	14.9	14.2	13.3	12.3	11.3				
90	1.41	1.47	1.54	1.62	1.70	1.76	1.83	1.84	1.86	1.88	1.89	1.94	2.01	2.08	2.15				
95	3.99	4.00	4.03	4.06	4.10	4.12	4.13	4.15	4.18	4.21	4.20	4.26	4.27	4.28	4.29				
100	5.22	5.15	5.14	5.14	5.08	5.04	5.10	5.07	4.91	5.05	5.03	4.83	4.78	4.75	4.88				
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
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:01
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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: