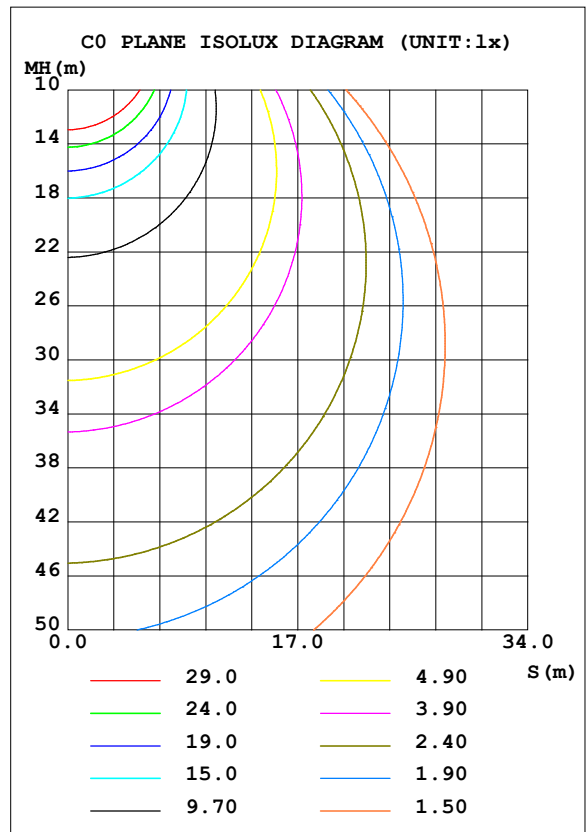
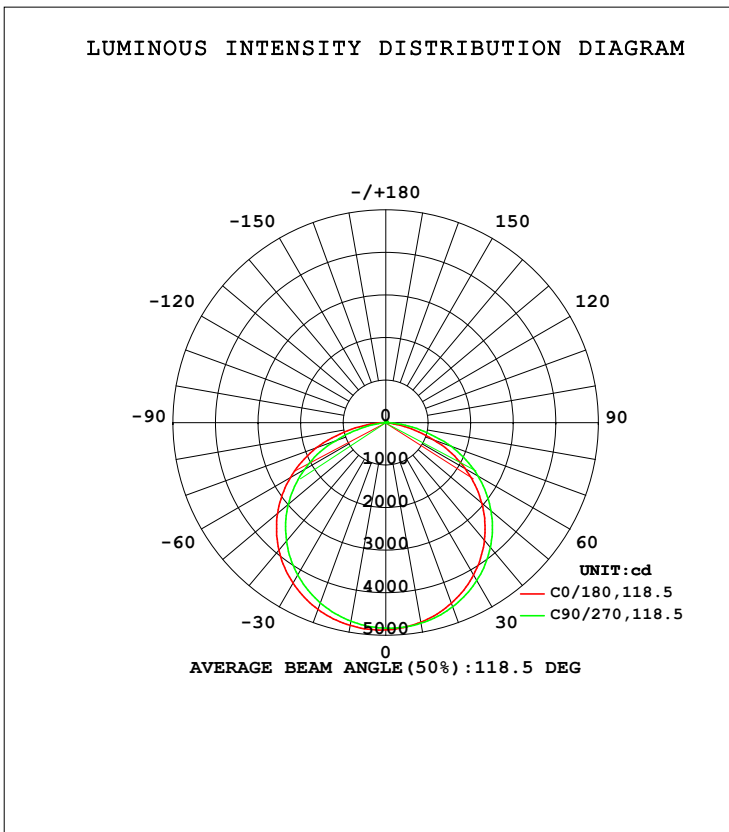


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:0.4550A P:98.70W PF:0.9860 Freq:50.00Hz Lamp Flux:14684.7x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.78 lm/W			
MODEL	HBL-100-120D	I _{max} (cd)	4876	S/MH (C0/180)	1.33
NOMINAL POWER (W)	100	LOR (%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	14685	η UP, DN (C0-180)	0.6, 50.1
NOMINAL FLUX (lm)	14684.7	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.4, 48.9
LAMPS INSIDE	1	η up (%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	η down (%)	99.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 007
 Test Date: 2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 5.560m [K=1.0000]
 Remarks: HBL-100W-120D

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4763	4774	4786	4789	4840	4787	4738	4703	0- 10	458.9	458.9	3.12,3.12
20	4517	4560	4603	4626	4668	4586	4507	4453	10- 20	1323	1782	12.1,12.1
30	4133	4208	4284	4326	4359	4248	4139	4068	20- 30	2034	3816	26,26
40	3610	3718	3827	3888	3910	3770	3634	3545	30- 40	2501	6317	43,43
50	2948	3090	3231	3312	3322	3154	2990	2886	40- 50	2656	8973	61.1,61.1
60	2150	2325	2495	2596	2594	2400	2212	2094	50- 60	2459	11432	77.8,77.8
70	1186	1417	1642	1755	1737	1520	1256	1134	60- 70	1905	13336	90.8,90.8
80	274.7	457.5	633.8	762.4	727.3	524.4	332.0	230.9	70- 80	1013	14350	97.7,97.7
90	10.70	9.476	9.394	11.68	5.521	4.946	5.555	6.090	80- 90	188.1	14538	99,99
100	16.50	15.12	13.71	12.95	7.862	8.796	9.817	10.40	90-100	10.35	14548	99.1,99.1
110	22.60	21.25	19.80	19.06	12.53	13.51	14.87	15.34	100-110	15.42	14563	99.2,99.2
120	28.83	27.58	26.10	25.19	17.77	18.71	20.61	20.61	110-120	20.08	14584	99.3,99.3
130	34.31	33.40	32.04	30.85	22.98	23.92	25.67	25.51	120-130	23.24	14607	99.5,99.5
140	37.43	36.80	35.99	35.08	27.27	27.83	29.20	29.20	130-140	23.63	14630	99.6,99.6
150	39.43	39.12	38.49	37.99	31.16	32.08	33.39	33.72	140-150	21.38	14652	99.8,99.8
160	42.24	42.17	41.61	41.29	34.94	35.24	36.41	36.80	150-160	17.25	14669	99.9,99.9
170	43.90	43.87	43.40	43.31	41.07	40.65	41.73	41.97	160-170	11.45	14681	100,100
180	44.94	44.60	44.65	44.16	45.27	44.45	44.41	44.50	170-180	4.139	14685	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 7646.7 lm

%lum = 52.1%

%lamp = 52.1%

Conical surface Flux(120deg): 11432 lm

%lum = 77.8%

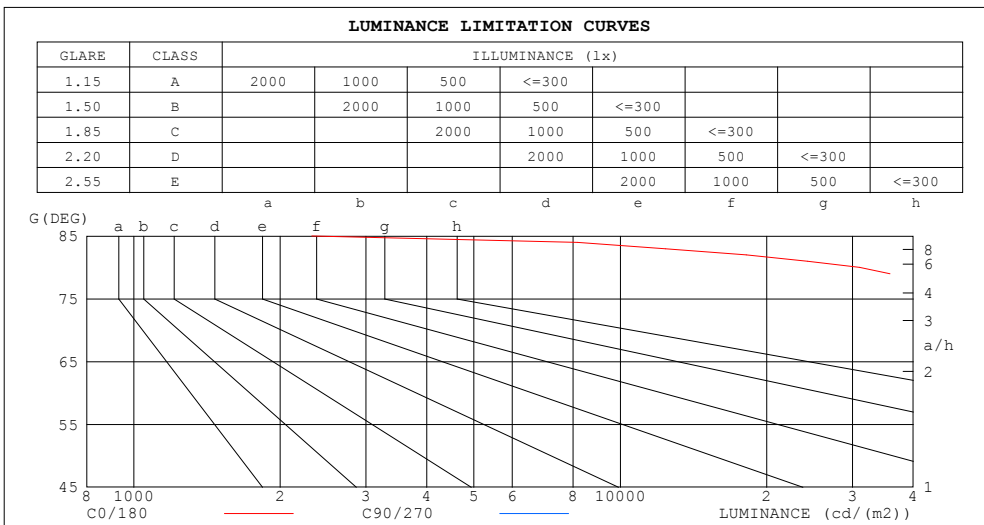
%lamp = 77.8%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: HBL-100W-120D

LUMINANCE LIMITATION CURVES

Test:U:220.0V I:0.4550A P:98.70W PF:0.9860 Freq:50.00Hz Lamp Flux:14684.7x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2323	48116
80	31020	71569
75	54096	84052
70	67998	94147
65	79340	96547
60	84322	97856
55	87693	98457
50	89930	98567
45	91382	98306

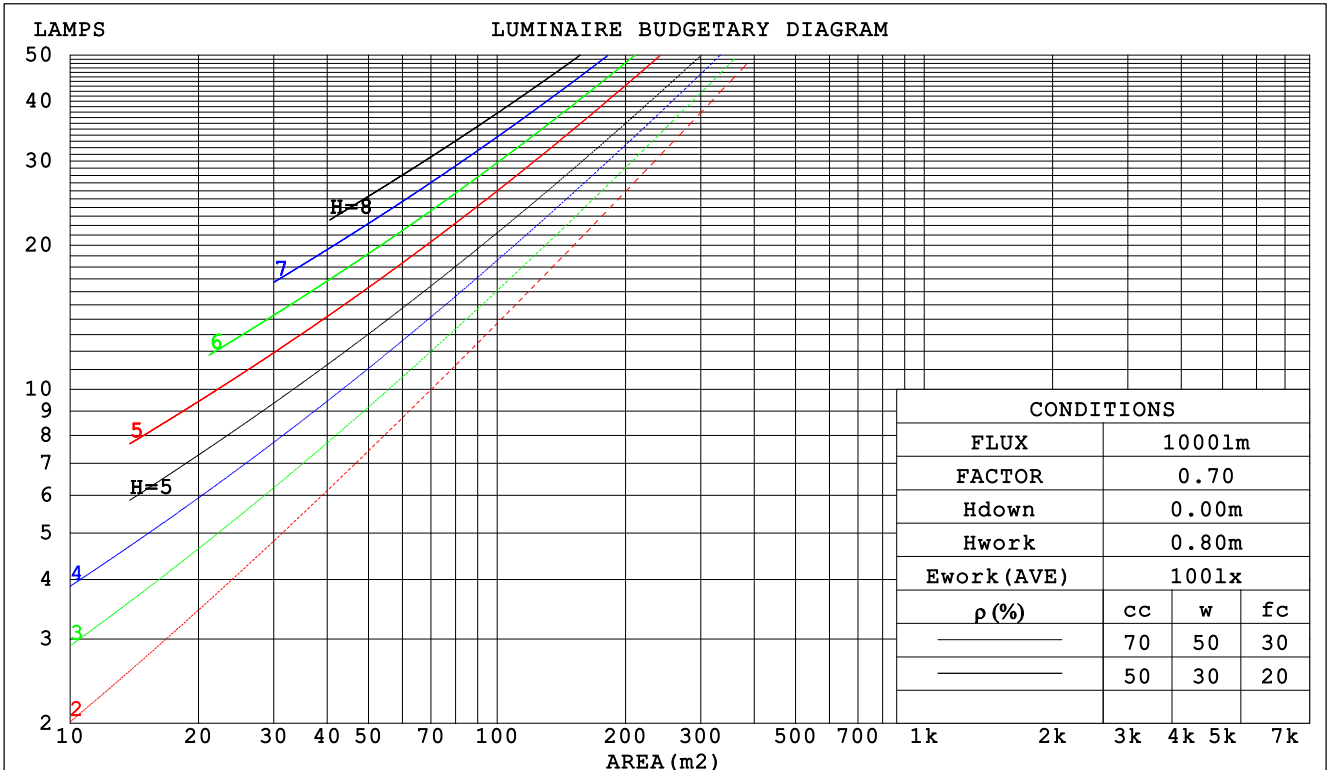
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: HBL-100W-120D

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.0V I:0.4550A P:98.70W PF:0.9860 Freq:50.00Hz Lamp Flux:14684.7x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.04	.90	.96	1.01	.98	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.78	.88	.82	.77	.85	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.71	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.61	.56	.51	.49
5.0	.62	.53	.46	.61	.52	.46	.59	.51	.45	.57	.50	.45	.55	.49	.44	.42
6.0	.56	.47	.40	.55	.46	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.35	.50	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.37	.32	.45	.37	.31	.44	.36	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.28	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: HBL-100W-120D

WEC AND CCEC

Test:U:220.0V I:0.4550A P:98.70W PF:0.9860 Freq:50.00Hz Lamp Flux:14684.7x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.306	.174	.055	.299	.171	.054	.285	.164	.052	.272	.157	.050	.261	.151	.049	
2.0	.291	.160	.049	.285	.157	.048	.273	.152	.047	.261	.147	.046	.251	.142	.045	
3.0	.271	.144	.043	.265	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040	
4.0	.250	.130	.038	.245	.128	.038	.235	.125	.037	.227	.122	.037	.218	.119	.036	
5.0	.232	.118	.034	.227	.117	.034	.218	.114	.033	.210	.111	.033	.203	.108	.033	
6.0	.215	.108	.031	.211	.106	.031	.203	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.187	.091	.026	.183	.090	.026	.177	.089	.025	.171	.087	.025	.166	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.166	.082	.023	.161	.081	.023	.156	.079	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.075	.021	.147	.074	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.198	.198	.198	.169	.169	.169	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.188	.164	.142	.161	.141	.122	.110	.097	.085	.063	.056	.049	.020	.018	.016	
2.0	.180	.140	.106	.154	.120	.091	.106	.083	.064	.061	.048	.037	.020	.016	.012	
3.0	.172	.122	.082	.148	.105	.071	.101	.073	.050	.059	.043	.029	.019	.014	.010	
4.0	.165	.109	.066	.142	.094	.057	.097	.066	.040	.056	.038	.024	.018	.012	.008	
5.0	.158	.098	.055	.135	.085	.048	.093	.060	.034	.054	.035	.020	.017	.011	.007	
6.0	.150	.090	.047	.129	.078	.041	.089	.055	.029	.052	.032	.017	.017	.011	.006	
7.0	.144	.083	.041	.124	.072	.036	.085	.051	.025	.050	.030	.015	.016	.010	.005	
8.0	.137	.078	.036	.118	.067	.032	.082	.047	.023	.048	.028	.013	.015	.009	.004	
9.0	.131	.073	.033	.113	.063	.029	.078	.044	.020	.046	.026	.012	.015	.009	.004	
10.0	.125	.068	.030	.108	.059	.026	.075	.042	.019	.044	.025	.011	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: HBL-100W-120D

UGR(Unified Glare Rating) Table

Test:U:220.0V I:0.4550A P:98.70W PF:0.9860 Freq:50.00Hz Lamp Flux:14684.7x1 lm										
NAME: LED				TYPE:				WEIGHT:		
SPEC.:				DIM.:				SERIAL No.:		
MFR.:				SUR.:0.1275*0.1275*3.14				Shielding Angle:120		
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	19.1	20.6	19.4	20.8	21.0	19.6	21.1	19.9	21.3	21.6
3H	20.4	21.8	20.7	22.1	22.3	21.3	22.7	21.6	22.9	23.2
4H	20.8	22.1	21.1	22.4	22.7	21.9	23.2	22.2	23.5	23.8
6H	20.9	22.2	21.3	22.5	22.8	22.3	23.6	22.7	23.9	24.2
8H	20.9	22.1	21.3	22.4	22.7	22.4	23.6	22.8	23.9	24.2
12H	20.8	22.0	21.2	22.3	22.7	22.4	23.6	22.8	23.9	24.3
4H 2H	19.8	21.1	20.1	21.4	21.6	20.2	21.5	20.5	21.8	22.0
3H	21.3	22.4	21.6	22.7	23.1	22.0	23.2	22.4	23.5	23.8
4H	21.7	22.8	22.1	23.1	23.5	22.7	23.8	23.1	24.1	24.5
6H	21.9	22.9	22.4	23.3	23.6	23.2	24.2	23.6	24.5	24.9
8H	21.9	22.8	22.4	23.2	23.6	23.4	24.3	23.8	24.6	25.0
12H	21.9	22.7	22.3	23.1	23.5	23.4	24.2	23.9	24.6	25.1
8H 4H	22.0	22.9	22.4	23.3	23.7	22.9	23.7	23.3	24.1	24.5
6H	22.3	23.0	22.8	23.4	23.9	23.5	24.2	23.9	24.6	25.1
8H	22.3	23.0	22.8	23.4	23.9	23.7	24.3	24.2	24.8	25.2
12H	22.3	22.8	22.8	23.3	23.8	23.8	24.3	24.3	24.8	25.3
12H 4H	22.0	22.8	22.4	23.2	23.6	22.8	23.7	23.3	24.1	24.5
6H	22.3	23.0	22.8	23.4	23.9	23.5	24.1	24.0	24.6	25.0
8H	22.4	22.9	22.9	23.4	23.9	23.7	24.3	24.2	24.7	25.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.5					+ 0.2 / - 0.3				

CIE Pub.117, 14685 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 9.3)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: HBL-100W-120D

UTILIZATION FACTORS TABLE

Test:U:220.0V I:0.4550A P:98.70W PF:0.9860 Freq:50.00Hz Lamp Flux:14684.7x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

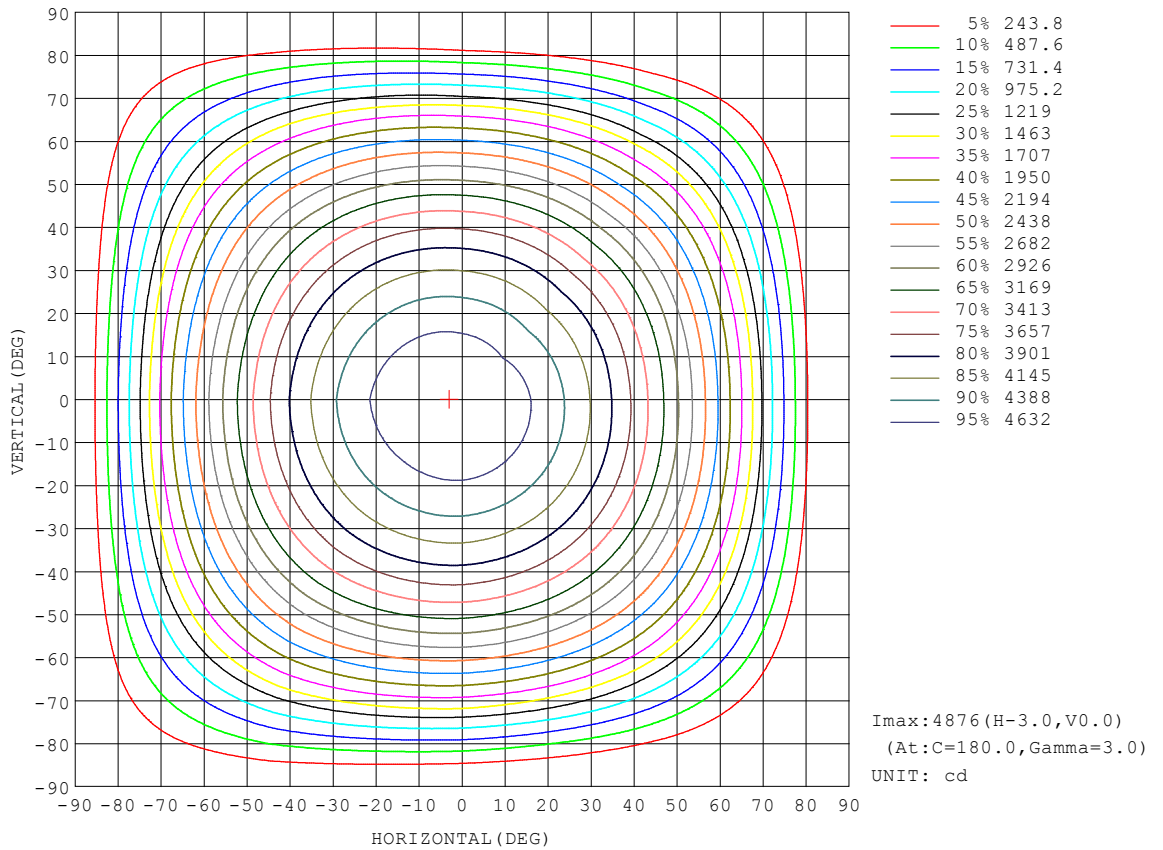
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	45	38	56	45	38	54	44	37	31
0.80	67	55	47	66	54	47	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	48
1.25	82	72	65	81	71	64	78	69	63	56
1.50	87	77	70	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	92	86	82	73
3.00	102	95	90	100	93	88	95	90	86	77
4.00	106	100	96	104	98	94	99	95	91	82
5.00	108	104	100	106	102	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: HBL-100W-120D

ISOCANDELA DIAGRAM

Test:U:220.0V I:0.4550A P:98.70W PF:0.9860 Freq:50.00Hz Lamp Flux:14684.7x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

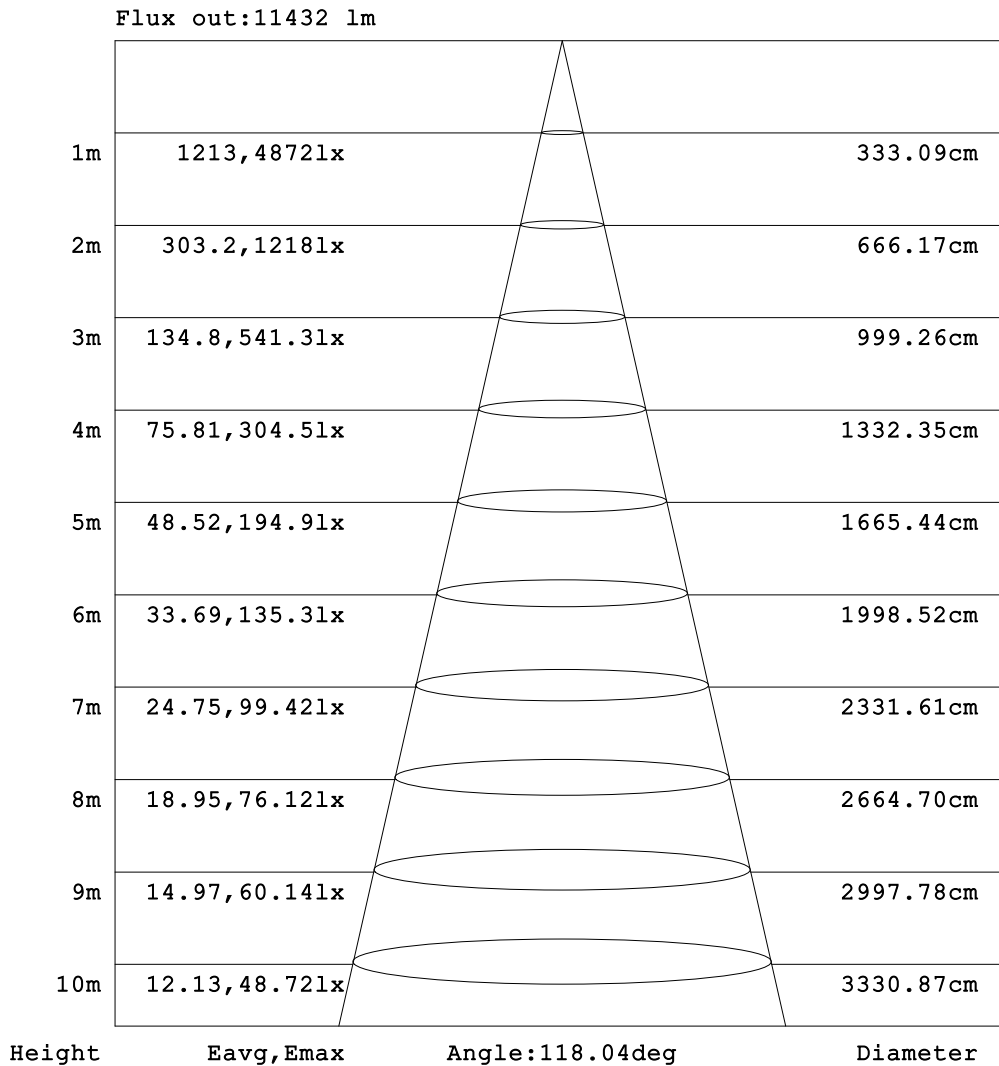


C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: HBL-100W-120D

AAI Figure

Test:U:220.0V I:0.4550A P:98.70W PF:0.9860 Freq:50.00Hz Lamp Flux:14684.7x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



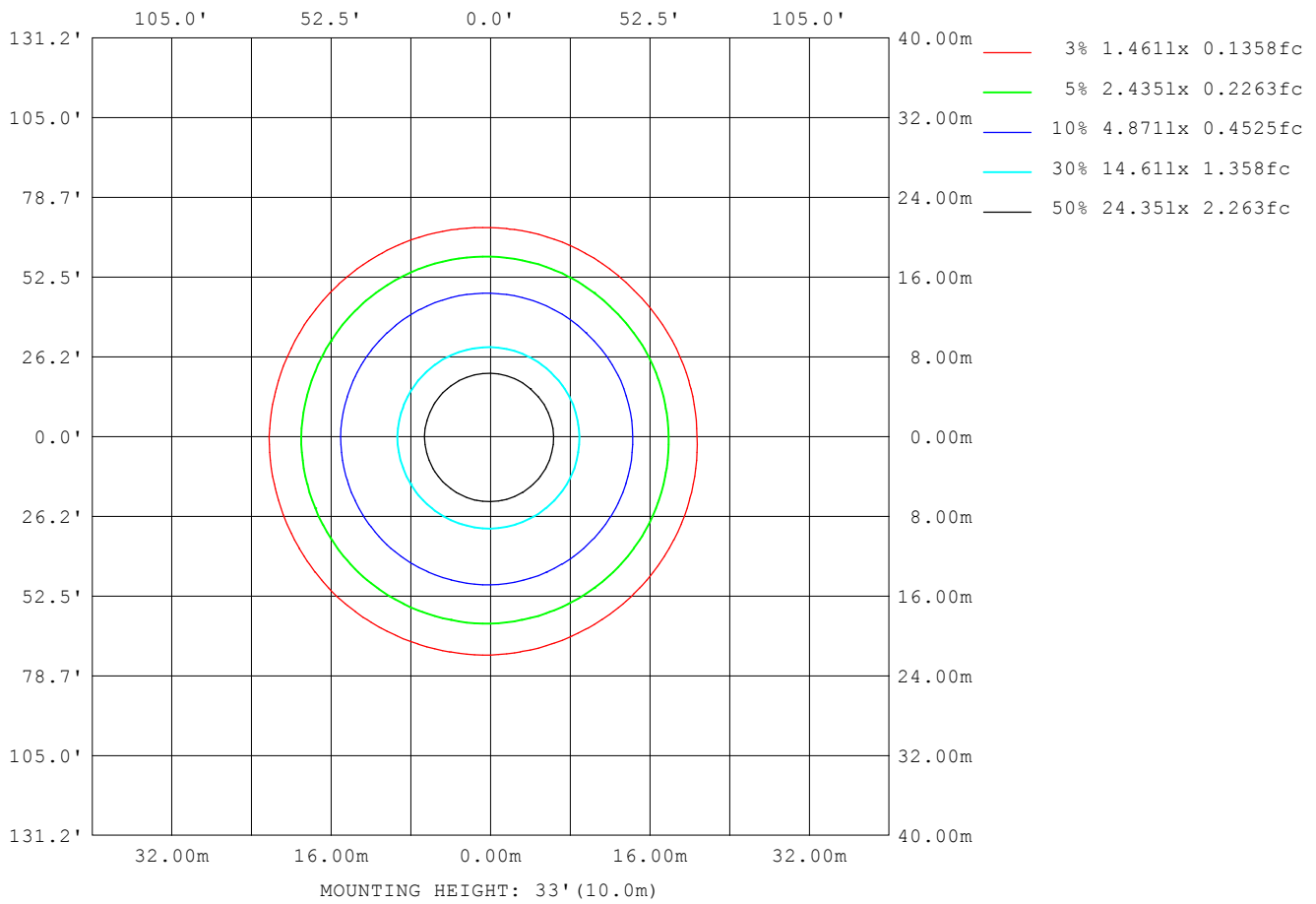
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: HBL-100W-120D

ISOLUX DIAGRAM

Test:U:220.0V I:0.4550A P:98.70W PF:0.9860 Freq:50.00Hz Lamp Flux:14684.7x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: HBL-100W-120D

LED Avg.L Report

Test:U:220.0V I:0.4550A P:98.70W PF:0.9860 Freq:50.00Hz Lamp Flux:14684.7x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

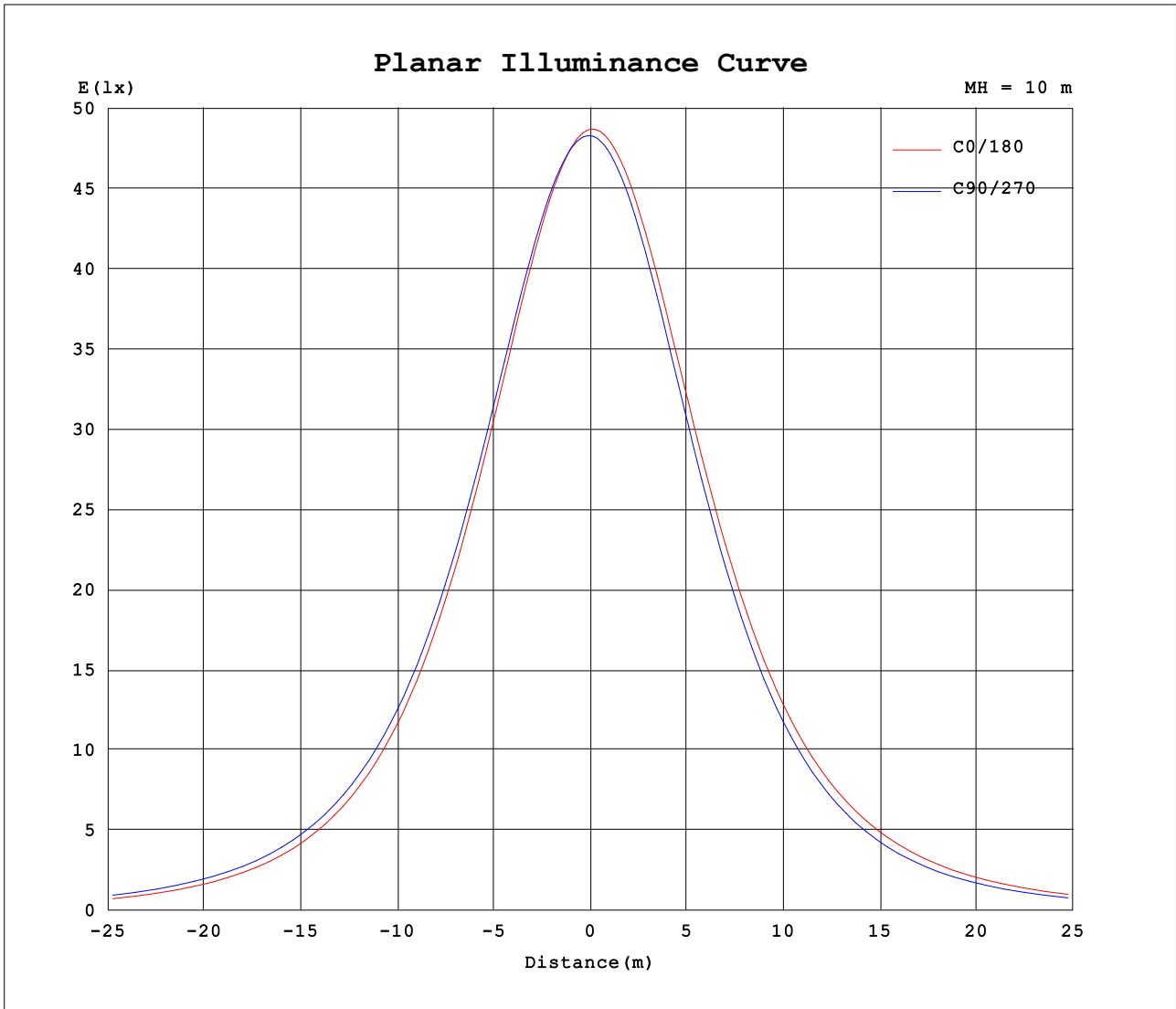
AvgL	cd/m2
L_0~180 (65) av	90265
L_0~180 (75) av	72700
L_0~180 (85) av	31863
L_90~270 (65) av	89533
L_90~270 (75) av	72106
L_90~270 (85) av	25571
L_45 (65) av	89546
L_45 (75) av	71714
L_45 (85) av	28973

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:007
 Test Date:2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:5.560m [K=1.0000]
 Remarks: HBL-100W-120D

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: 007
 Test Date: 2016-08-12

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 5.560m [K=1.0000]
 Remarks: HBL-100W-120D

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.4550A P:98.70W PF:0.9860 Freq:50.00Hz Lamp Flux:14684.7x1 lm		
NAME: LED	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	45	90	135	180	225	270	315											
0	4871	4850	4831	4814	4871	4850	4831	4814											
5	4834	4829	4826	4819	4873	4836	4801	4775											
10	4763	4774	4786	4789	4840	4787	4738	4703											
15	4657	4684	4712	4725	4772	4704	4639	4595											
20	4517	4560	4603	4626	4668	4586	4507	4453											
25	4342	4400	4461	4493	4531	4434	4340	4278											
30	4133	4208	4284	4326	4359	4248	4139	4068											
35	3889	3981	4073	4125	4152	4026	3904	3824											
40	3610	3718	3827	3888	3910	3770	3634	3545											
45	3295	3422	3545	3617	3634	3480	3329	3233											
50	2948	3090	3231	3312	3322	3154	2990	2886											
55	2565	2723	2880	2970	2975	2794	2617	2505											
60	2150	2325	2495	2596	2594	2400	2212	2094											
65	1710	1897	2081	2190	2181	1977	1779	1657											
70	1186	1417	1642	1755	1737	1520	1256	1134											
75	714	909	1109	1226	1205	997	794	654											
80	275	457	634	762	727	524	332	231											
85	10.3	87.5	214	307	273	115	13.5	5.77											
90	10.7	9.48	9.39	11.7	5.52	4.95	5.56	6.09											
95	13.5	12.2	10.9	10.2	5.82	6.70	7.57	8.11											
100	16.5	15.1	13.7	13.0	7.86	8.80	9.82	10.4											
105	19.5	18.2	16.7	16.0	10.1	11.1	12.3	12.8											
110	22.6	21.3	19.8	19.1	12.5	13.5	14.9	15.3											
115	25.8	24.4	23.0	22.1	15.1	16.1	17.7	18.0											
120	28.8	27.6	26.1	25.2	17.8	18.7	20.6	20.6											
125	31.8	30.7	29.2	28.1	20.4	21.4	23.3	23.1											
130	34.3	33.4	32.0	30.9	23.0	23.9	25.7	25.5											
135	36.1	35.3	34.2	33.1	25.2	26.1	27.5	27.4											
140	37.4	36.8	36.0	35.1	27.3	27.8	29.2	29.2											
145	38.7	38.2	37.5	36.9	29.4	30.2	31.3	31.6											
150	39.4	39.1	38.5	38.0	31.2	32.1	33.4	33.7											
155	40.8	40.6	40.0	39.6	33.4	34.2	35.6	35.7											
160	42.2	42.2	41.6	41.3	34.9	35.2	36.4	36.8											
165	43.0	42.8	42.4	42.1	37.9	37.8	39.0	39.3											
170	43.9	43.9	43.4	43.3	41.1	40.6	41.7	42.0											
175	44.7	44.6	43.9	44.1	42.9	42.3	43.4	43.2											
180	44.9	44.6	44.6	44.2	45.3	44.4	44.4	44.5											

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 C Interval: 45.0DEG
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