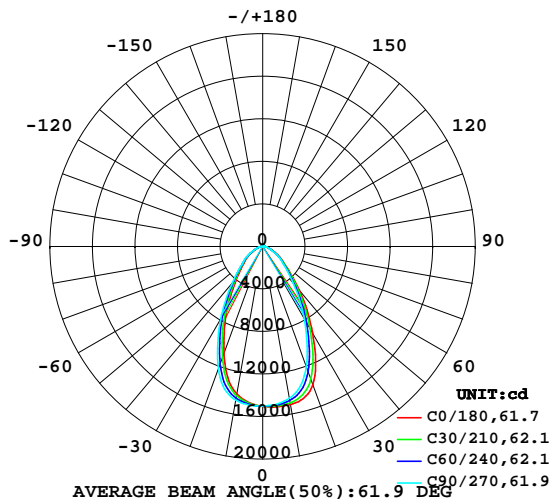


LUMINAIRE PHOTOMETRIC TEST REPORT

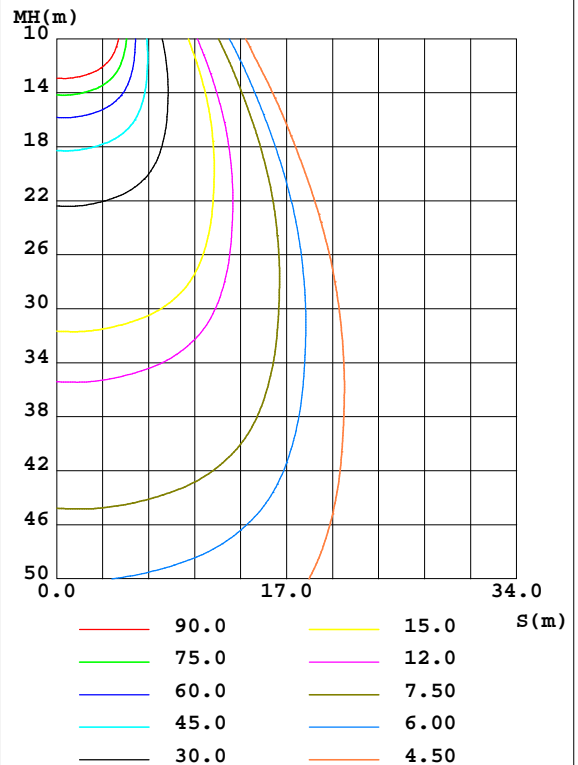
Test:U:220.0V I:0.6476A P:138.7W PF:0.9737 Lamp Flux:20100.3x1 lm		
NAME: HB2200-130G-A100-G5 360EA-60D_180914	TYPE:LED	WEIGHT:
SPEC.:G5 360EA	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 144.92 lm/W			
MODEL	HB2200-130G-A100-G5 360EA-60D_180914	Imax(cd)	15179	S/MH(C0/180)	0.83
NOMINAL POWER(W)	130	LOR(%)	100.0	S/MH(C90/270)	0.93
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	20100	η UP,DN(C0-180)	0.9,49.1
NOMINAL FLUX(lm)	20100.3	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.8,49.2
LAMPS INSIDE	1	η up(%)	1.7	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	η down(%)	98.3	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LUC
Test Date:03 January 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1509	1483	1449	1411	1408	1434	1466	1504	0- 10	1414	1414	7.03,7.03
20	1382	1292	1201	1090	1067	1137	1221	1352	10- 20	3826	5240	26.1,26.1
30	939.5	860.7	783.7	689.8	663.5	729.8	792.1	895.3	20- 30	4591	9831	48.9,48.9
40	536.3	490.9	442.6	384.0	370.9	408.8	440.4	505.9	30- 40	3782	13613	67.7,67.7
50	285.9	270.1	254.6	230.0	226.1	240.7	249.9	269.9	40- 50	2598	16211	80.7,80.7
60	167.9	160.4	153.3	135.1	129.4	140.7	147.4	160.5	50- 60	1786	17997	89.5,89.5
70	83.76	78.92	73.75	65.11	62.24	67.91	71.07	79.52	60- 70	1043	19040	94.7,94.7
80	39.10	35.08	32.24	26.60	24.22	27.31	30.02	36.77	70- 80	541.4	19581	97.4,97.4
90	6.109	4.754	6.443	5.506	4.708	4.918	5.372	5.203	80- 90	180.2	19762	98.3,98.3
100	2.479	2.516	2.905	2.778	1.987	1.860	1.781	1.638	90-100	30.54	19792	98.5,98.5
110	3.379	3.641	3.846	4.051	3.103	2.911	2.837	2.512	100-110	28.64	19821	98.6,98.6
120	4.720	5.053	5.473	5.622	4.622	4.448	4.389	3.880	110-120	39.71	19860	98.8,98.8
130	6.249	6.527	7.005	7.149	6.329	6.071	6.010	5.343	120-130	49.73	19910	99.1,99.1
140	7.806	8.023	8.277	8.528	7.963	7.637	7.434	6.988	130-140	54.79	19965	99.3,99.3
150	9.117	9.282	9.401	9.592	9.174	8.949	8.787	8.474	140-150	53.15	20018	99.6,99.6
160	9.885	9.964	10.05	10.05	9.817	9.693	9.641	9.475	150-160	43.80	20062	99.8,99.8
170	10.34	10.37	10.33	10.37	10.33	10.23	10.14	10.09	160-170	28.44	20090	100,100
180	10.65	10.71	10.60	10.62	10.66	10.71	10.60	10.63	170-180	9.940	20100	100,100
DEG	LUMINOUS INTENSITY:≠10cd									UNIT:lm		

Conical surface Flux(90deg): 15041 lm

%lum = 74.8%

%lamp = 74.8%

Conical surface Flux(120deg): 17997 lm

%lum = 89.5%

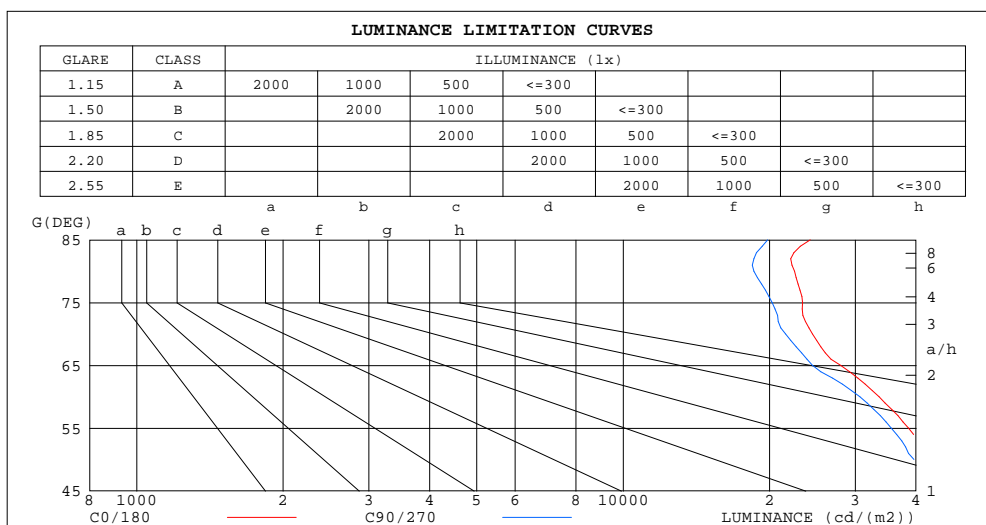
%lamp = 89.5%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LUC
Test Date:03 January 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

LUMINANCE LIMITATION CURVES

Test:U:220.0V I:0.6476A P:138.7W PF:0.9737 Lamp Flux:20100.3x1 lm		
NAME: HB2200-130G-A100-G5 360EA-60D_180914	TYPE:LED	WEIGHT:
SPEC.:G5 360EA	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	24254	19829
80	22518	18565
75	23387	20242
70	24489	21563
65	27990	24513
60	33587	30666
55	38618	35583
50	44480	39614
45	54683	47131

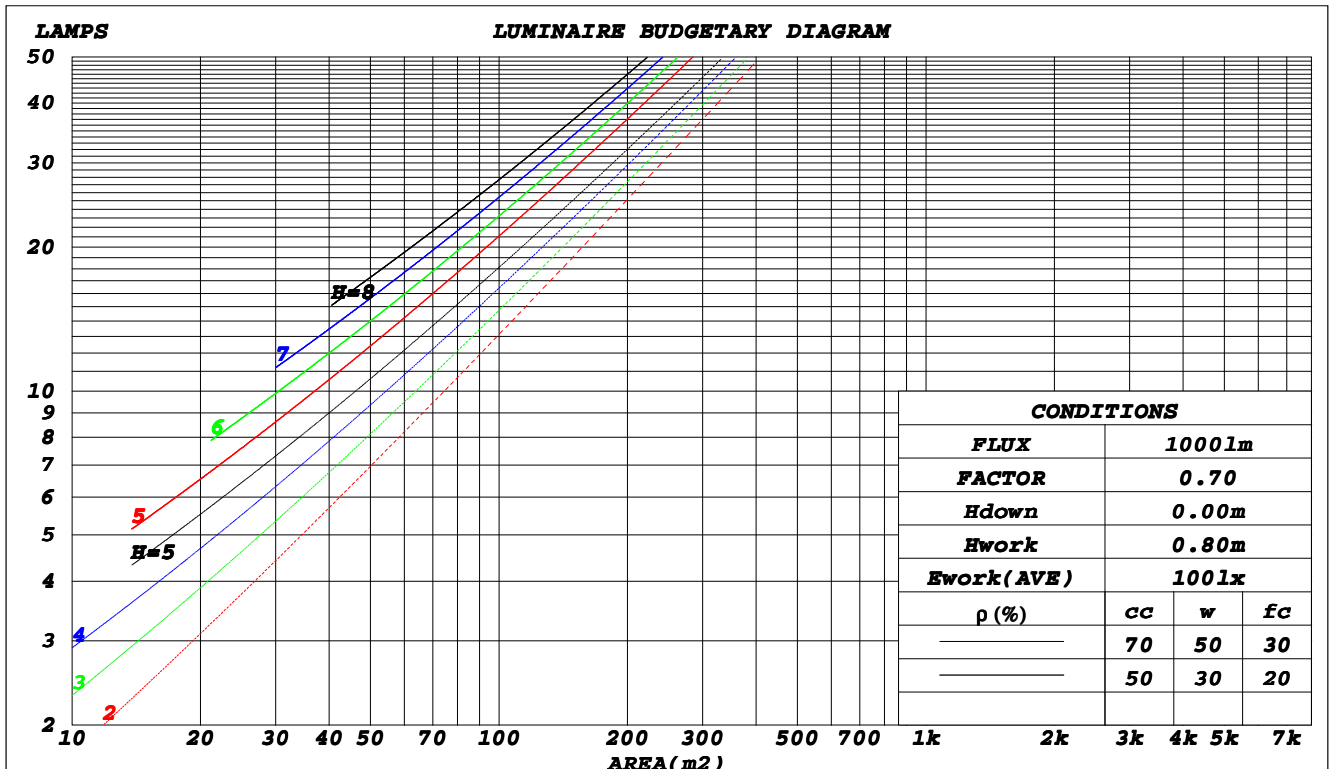
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LUC
Test Date:03 January 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.0V I:0.6476A P:138.7W PF:0.9737 Lamp Flux:20100.3x1 lm		
NAME: HB2200-130G-A100-G5 360EA-60D_180914	TYPE:LED	WEIGHT:
SPEC.:G5 360EA	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.00	1.00	1.00	.98
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.00	.98	.96	.96	.94	.93	.93	.91	.90	.88
2.0	.97	.92	.87	.95	.90	.86	.91	.87	.84	.88	.85	.82	.85	.82	.80	.78
3.0	.88	.82	.76	.86	.80	.76	.83	.78	.74	.81	.76	.73	.78	.74	.71	.69
4.0	.80	.73	.68	.79	.72	.67	.76	.71	.66	.74	.69	.65	.72	.68	.64	.62
5.0	.74	.66	.61	.73	.66	.61	.70	.64	.60	.68	.63	.59	.67	.62	.58	.57
6.0	.68	.61	.55	.67	.60	.55	.65	.59	.54	.63	.58	.54	.62	.57	.53	.52
7.0	.63	.56	.50	.62	.55	.50	.61	.54	.50	.59	.54	.49	.58	.53	.49	.47
8.0	.58	.51	.46	.58	.51	.46	.56	.50	.46	.55	.50	.46	.54	.49	.45	.44
9.0	.55	.48	.43	.54	.47	.43	.53	.47	.42	.52	.46	.42	.51	.46	.42	.40
10.0	.51	.44	.40	.51	.44	.40	.50	.44	.39	.49	.43	.39	.48	.43	.39	.37



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LUC
Test Date:03 January 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

WEC AND CCEC

Test:U:220.0V I:0.6476A P:138.7W PF:0.9737 Lamp Flux:20100.3x1 lm		
NAME: HB2200-130G-A100-G5 360EA-60D_180914	TYPE:LED	WEIGHT:
SPEC.:G5 360EA	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.237	.135	.043	.230	.131	.042	.216	.124	.040	.203	.117	.038	.192	.111	.036		
2.0	.226	.124	.038	.219	.121	.037	.207	.115	.036	.196	.110	.034	.186	.105	.033		
3.0	.212	.113	.034	.206	.111	.033	.196	.106	.032	.186	.102	.031	.177	.098	.030		
4.0	.199	.103	.030	.194	.101	.030	.185	.098	.029	.176	.095	.029	.168	.091	.028		
5.0	.187	.095	.028	.182	.094	.027	.174	.091	.027	.166	.088	.026	.159	.085	.026		
6.0	.175	.088	.025	.172	.087	.025	.164	.084	.024	.158	.082	.024	.151	.080	.024		
7.0	.165	.082	.023	.162	.081	.023	.155	.079	.023	.149	.077	.022	.144	.075	.022		
8.0	.156	.076	.021	.153	.075	.021	.147	.074	.021	.142	.072	.021	.137	.070	.020		
9.0	.148	.072	.020	.145	.071	.020	.140	.069	.020	.135	.068	.019	.130	.066	.019		
10.0	.140	.067	.019	.138	.067	.019	.133	.065	.018	.129	.064	.018	.124	.063	.018		

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.203	.203	.203	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.188	.170	.153	.161	.146	.132	.110	.100	.091	.063	.058	.053	.020	.019	.017	
2.0	.176	.145	.119	.151	.125	.103	.104	.087	.072	.060	.050	.042	.019	.016	.014	
3.0	.166	.127	.096	.143	.110	.083	.098	.076	.058	.057	.044	.034	.018	.014	.011	
4.0	.158	.113	.079	.135	.098	.069	.093	.068	.048	.054	.040	.029	.017	.013	.009	
5.0	.150	.102	.067	.129	.088	.058	.089	.062	.041	.051	.036	.024	.017	.012	.008	
6.0	.143	.093	.058	.123	.081	.050	.085	.057	.036	.049	.033	.021	.016	.011	.007	
7.0	.136	.086	.051	.117	.075	.044	.081	.052	.032	.047	.031	.019	.015	.010	.006	
8.0	.130	.080	.046	.112	.069	.040	.077	.049	.028	.045	.029	.017	.015	.009	.006	
9.0	.125	.075	.042	.107	.065	.036	.074	.046	.026	.043	.027	.015	.014	.009	.005	
10.0	.120	.071	.038	.103	.061	.033	.072	.043	.024	.042	.026	.014	.014	.008	.005	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LUC
Test Date:03 January 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

UGR(Unified Glare Rating) Table

Test:U:220.0V I:0.6476A P:138.7W PF:0.9737 Lamp Flux:20100.3x1 lm		
NAME: HB2200-130G-A100-G5 360EA-60D_180914	TYPE:LED	WEIGHT:
SPEC.:G5 360EA	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	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	24.4	25.6	24.7	25.8	26.0	23.8	25.0	24.1	25.2	25.5
3H	25.1	26.2	25.4	26.4	26.7	24.5	25.6	24.8	25.8	26.1
4H	25.4	26.5	25.7	26.7	27.0	24.8	25.8	25.1	26.1	26.4
6H	25.7	26.7	26.0	27.0	27.3	25.0	26.0	25.3	26.3	26.6
8H	25.8	26.8	26.2	27.1	27.4	25.1	26.0	25.4	26.3	26.6
12H	25.9	26.8	26.3	27.1	27.4	25.2	26.1	25.5	26.4	26.7
4H 2H	24.6	25.7	25.0	25.9	26.2	24.1	25.2	24.5	25.4	25.7
3H	25.5	26.4	25.9	26.7	27.0	25.0	25.9	25.3	26.2	26.5
4H	26.0	26.8	26.3	27.1	27.5	25.4	26.2	25.8	26.5	26.9
6H	26.4	27.1	26.8	27.5	27.9	25.7	26.5	26.1	26.8	27.2
8H	26.5	27.2	27.0	27.6	28.0	25.9	26.5	26.3	26.9	27.3
12H	26.7	27.3	27.1	27.7	28.1	26.0	26.6	26.4	27.0	27.4
8H 4H	26.1	26.7	26.5	27.1	27.5	25.5	26.2	26.0	26.6	27.0
6H	26.6	27.2	27.1	27.6	28.1	26.0	26.6	26.5	27.0	27.5
8H	26.9	27.4	27.3	27.8	28.3	26.2	26.7	26.7	27.2	27.7
12H	27.1	27.5	27.6	28.0	28.5	26.4	26.8	26.9	27.3	27.8
12H 4H	26.1	26.7	26.5	27.1	27.5	25.5	26.2	26.0	26.6	27.0
6H	26.6	27.1	27.1	27.6	28.1	26.1	26.5	26.5	27.0	27.5
8H	26.9	27.3	27.4	27.8	28.3	26.3	26.7	26.8	27.2	27.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.6					+ 0.4 / - 0.5				
1.5H	+ 0.5 / - 0.4					+ 0.4 / - 0.3				
2.0H	+ 0.8 / - 0.6					+ 0.6 / - 0.7				

CIE Pub.117 Corrected 20100 lm Total Lamp Luminous Flux.(8log(F/F0) = 10.4)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LUC
Test Date:03 January 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

UTILIZATION FACTORS TABLE

Test:U:220.0V I:0.6476A P:138.7W PF:0.9737 Lamp Flux:20100.3x1 lm		
NAME: HB2200-130G-A100-G5 360EA-60D_180914	TYPE:LED	WEIGHT:
SPEC.:G5 360EA	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

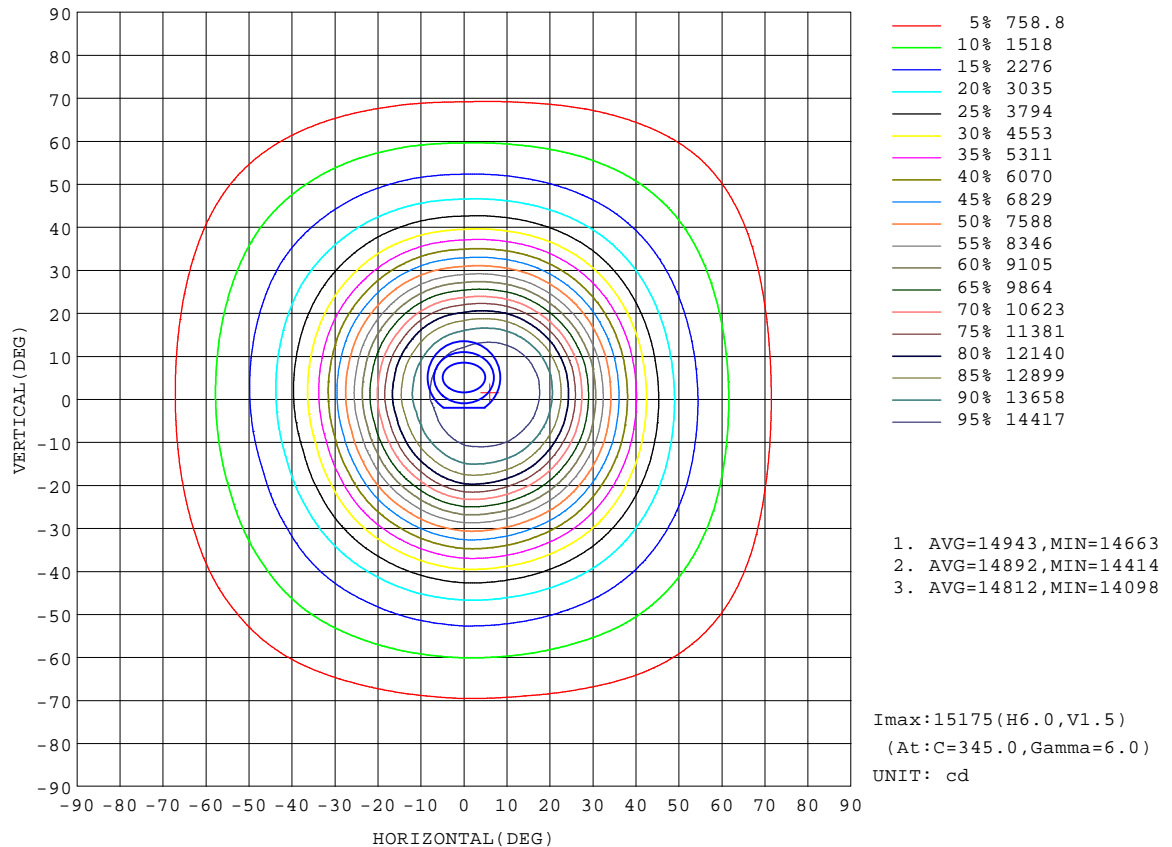
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	62	57	71	62	57	70	62	57	51
0.80	80	72	66	80	71	66	78	70	65	60
1.00	87	79	73	86	78	73	84	79	72	67
1.25	93	85	80	92	84	79	89	83	78	73
1.50	97	90	84	95	89	84	92	87	83	76
2.00	102	95	91	100	94	90	97	92	88	81
2.50	104	99	94	102	97	93	99	94	91	84
3.00	107	102	98	105	100	96	101	97	94	86
4.00	110	105	102	107	104	101	103	100	98	89
5.00	111	108	105	109	106	103	104	102	100	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LUC
Test Date: 03 January 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

ISOCANDELA DIAGRAM

Test:U:220.0V I:0.6476A P:138.7W PF:0.9737 Lamp Flux:20100.3x1 lm		
NAME: HB2200-130G-A100-G5 360EA-60D_180914	TYPE:LED	WEIGHT:
SPEC.:G5 360EA	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

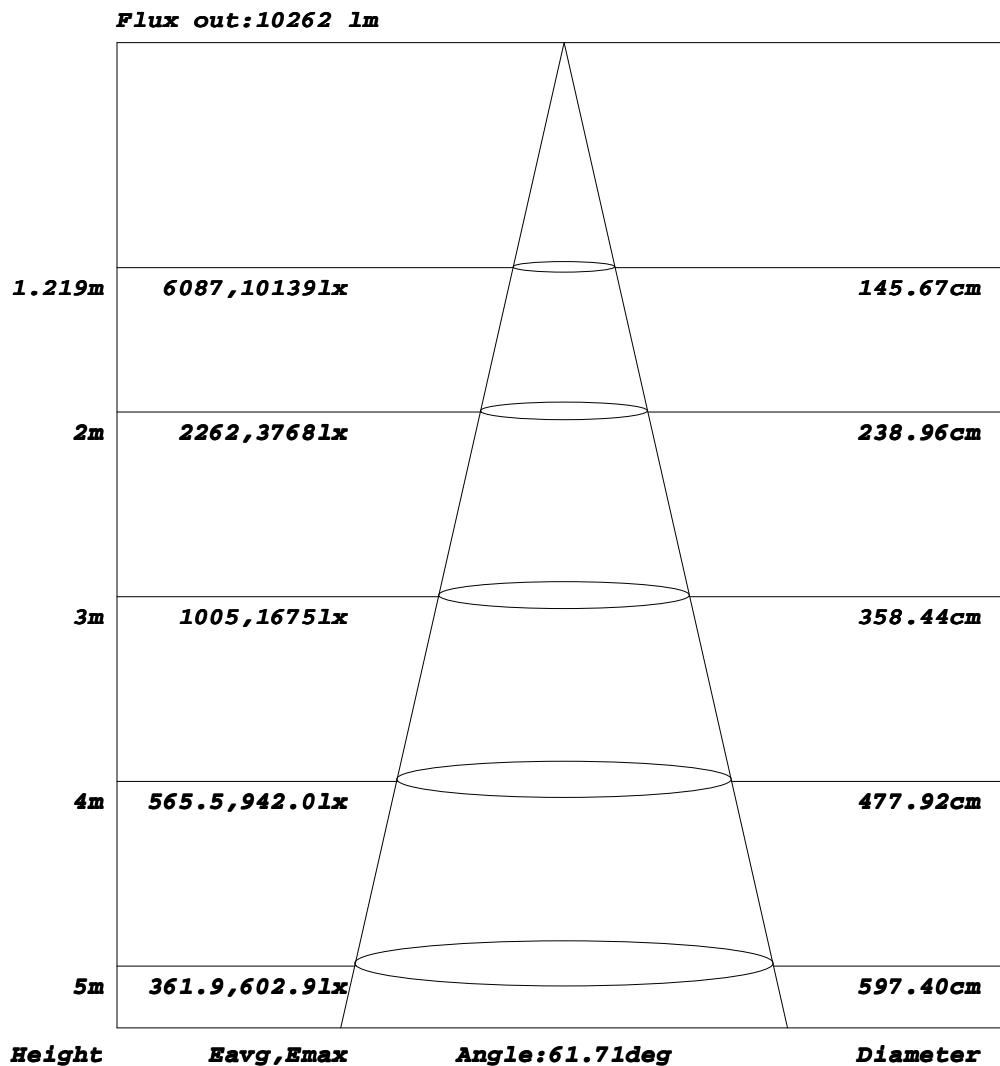


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LUC
Test Date:03 January 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

AAI Figure

Test:U:220.0V I:0.6476A P:138.7W PF:0.9737 Lamp Flux:20100.3x1 lm		
NAME: HB2200-130G-A100-G5 360EA-60D_180914	TYPE:LED	WEIGHT:
SPEC.:G5 360EA	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:



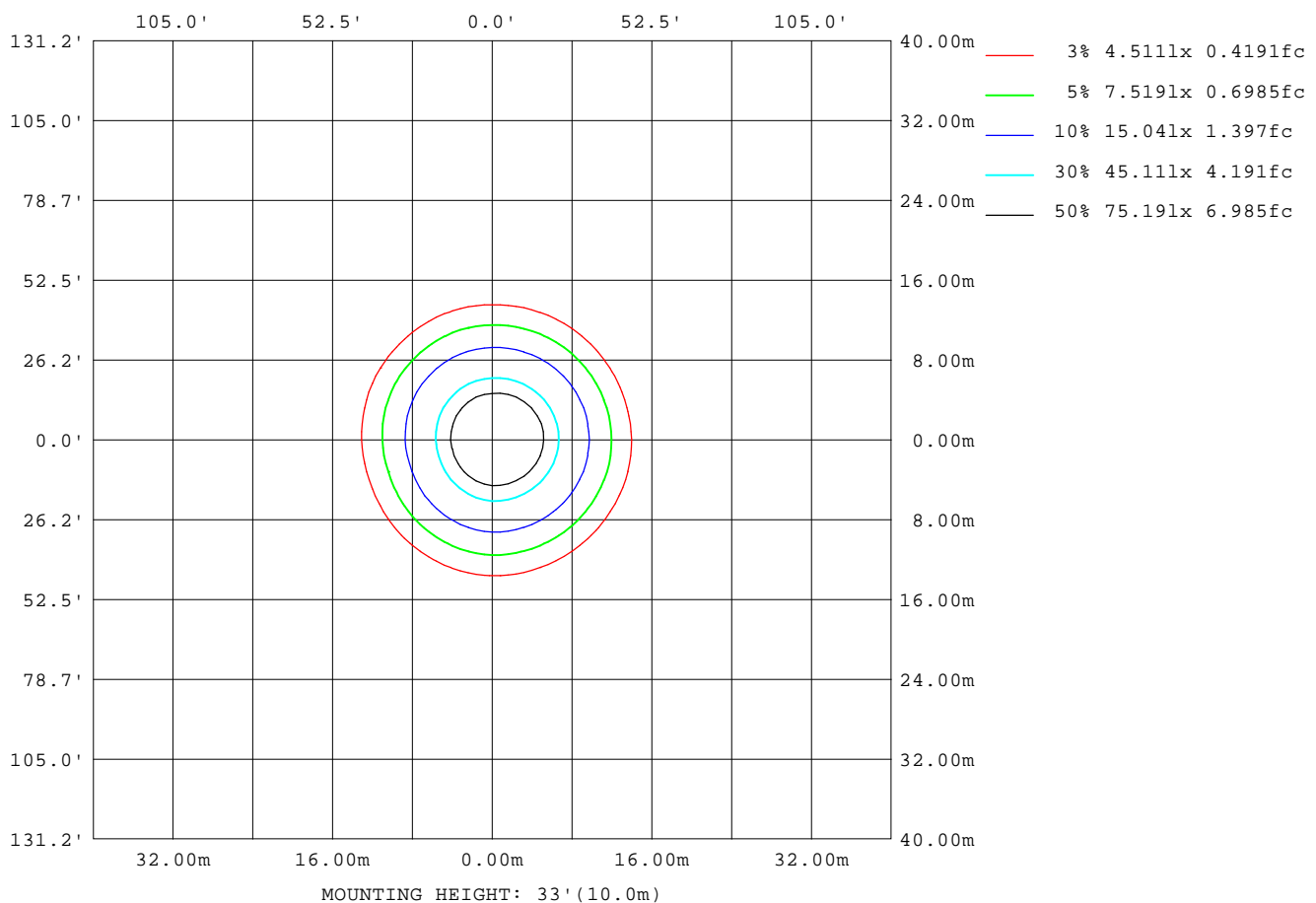
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LUC
Test Date: 03 January 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

ISOLUX DIAGRAM

Test:U:220.0V I:0.6476A P:138.7W PF:0.9737 Lamp Flux:20100.3x1 lm		
NAME: HB2200-130G-A100-G5 360EA-60D_180914	TYPE:LED	WEIGHT:
SPEC.:G5 360EA	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LUC
Test Date: 03 January 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

LED Avg.L Report

Test:U:220.0V I:0.6476A P:138.7W PF:0.9737 Lamp Flux:20100.3x1 lm		
NAME: HB2200-130G-A100-G5 360EA-60D_180914	TYPE:LED	WEIGHT:
SPEC.:G5 360EA	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

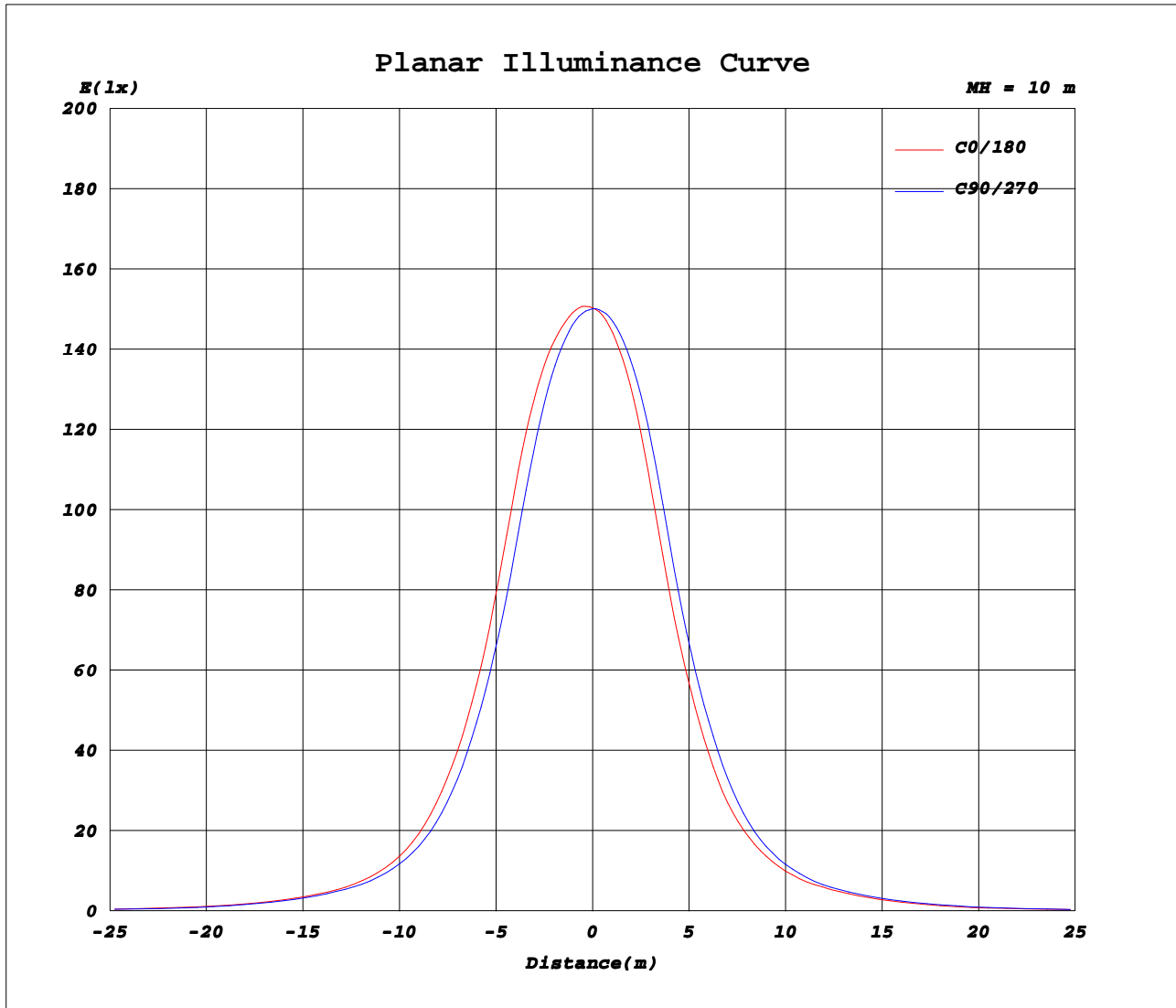
AvgL	cd/m2
L_0~180(65)av	24425
L_0~180(75)av	19747
L_0~180(85)av	18053
L_90~270(65)av	24163
L_90~270(75)av	19833
L_90~270(85)av	18475
L_45(65)av	24272
L_45(75)av	19776
L_45(85)av	17985

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LUC
Test Date:03 January 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LUC
Test Date: 03 January 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.6476A P:138.7W PF:0.9737 Lamp Flux:20100.3x1 lm																		
NAME: HB2200-130G-A100-G5 360EA-60D_180914									TYPE:LED					WEIGHT:				
SPEC.:G5 360EA									DIM.:					SERIAL No.:				
MFR.: ICEPIPE									SUR.:					Shielding Angle:				

Table--1

UNIT: #10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1504	1502	1502	1503	1502	1501	1501	1501	1500	1501	1500	1500	1504	1502	1502	1503	1502	1501	1501
5	1515	1510	1505	1502	1496	1493	1489	1483	1478	1474	1469	1468	1474	1476	1481	1485	1490	1494	1498
10	1509	1502	1495	1483	1469	1458	1449	1436	1421	1411	1401	1398	1408	1412	1423	1434	1448	1458	1466
15	1480	1466	1446	1426	1400	1379	1364	1337	1309	1287	1268	1261	1275	1284	1307	1327	1353	1374	1389
20	1382	1360	1326	1292	1251	1221	1201	1164	1122	1090	1063	1052	1067	1080	1109	1137	1174	1202	1221
25	1181	1159	1119	1078	1035	1005	985	949	909	879	851	839	855	869	897	924	956	983	999
30	939	925	892	861	825	799	784	752	716	690	661	650	664	681	708	730	759	779	792
35	726	714	688	663	633	612	598	568	538	514	489	477	492	506	529	547	571	591	601
40	536	528	509	491	468	452	443	423	401	384	366	359	371	382	396	409	425	435	440
45	387	383	372	362	349	339	333	321	305	291	280	274	283	292	304	310	320	328	330
50	286	285	277	270	263	257	255	247	237	230	222	220	226	232	239	241	245	249	250
55	222	221	216	212	208	206	204	198	191	184	175	172	179	183	189	191	196	199	199
60	168	168	163	160	156	155	153	148	141	135	127	124	129	132	138	141	145	148	147
65	118	117	113	110	107	104	104	99.2	95.5	91.9	86.8	85.7	88.2	90.2	93.5	96.1	99.0	101	101
70	83.8	83.2	80.7	78.9	76.1	74.0	73.7	70.8	67.4	65.1	62.0	61.1	62.2	63.7	66.3	67.9	69.7	71.1	71.1
75	60.5	59.8	58.0	56.3	54.1	52.7	52.4	50.0	47.1	44.6	42.1	40.9	41.7	42.7	44.5	46.6	48.5	49.8	50.3
80	39.1	38.4	36.3	35.1	33.4	32.4	32.2	30.4	28.2	26.6	24.8	24.2	24.2	24.8	26.5	27.3	29.0	29.8	30.0
85	21.1	20.3	19.7	19.0	17.5	16.9	17.3	15.9	14.0	12.3	10.8	10.2	10.3	10.6	11.8	12.0	13.1	14.0	14.9
90	6.11	5.25	4.73	4.75	4.89	5.63	6.44	6.20	5.85	5.51	5.16	5.07	4.71	4.61	4.93	4.92	4.96	4.98	5.37
95	2.35	2.30	2.23	2.40	2.98	3.54	3.88	3.62	2.89	2.47	2.47	2.60	1.87	1.82	1.74	1.65	1.99	2.55	2.60
100	2.48	2.45	2.48	2.52	2.65	2.76	2.90	2.96	2.85	2.78	2.84	2.91	1.99	1.95	1.89	1.86	1.82	1.80	1.78
105	2.85	2.89	2.98	3.07	3.03	3.12	3.14	3.20	3.27	3.35	3.45	3.49	2.47	2.44	2.37	2.33	2.27	2.24	2.22
110	3.38	3.42	3.54	3.64	3.78	3.87	3.85	3.86	3.93	4.05	4.18	4.18	3.10	3.07	3.04	2.91	2.83	2.81	2.84
115	4.01	4.05	4.15	4.37	4.54	4.64	4.63	4.68	4.78	4.86	4.88	4.91	3.81	3.76	3.71	3.67	3.55	3.54	3.56
120	4.72	4.76	4.83	5.05	5.30	5.48	5.47	5.57	5.63	5.62	5.62	5.69	4.62	4.54	4.44	4.45	4.41	4.39	4.39
125	5.47	5.51	5.60	5.77	6.04	6.26	6.29	6.39	6.45	6.39	6.41	6.49	5.47	5.39	5.27	5.24	5.26	5.29	5.26
130	6.25	6.30	6.36	6.53	6.77	6.98	7.00	7.12	7.17	7.15	7.20	7.29	6.33	6.25	6.11	6.07	6.07	6.06	6.01
135	7.05	7.11	7.21	7.30	7.45	7.62	7.67	7.77	7.81	7.87	7.96	8.04	7.20	7.09	6.96	6.86	6.80	6.80	6.75
140	7.81	7.87	7.97	8.02	8.13	8.24	8.28	8.37	8.46	8.53	8.67	8.70	7.96	7.87	7.76	7.64	7.53	7.48	7.43
145	8.52	8.57	8.64	8.69	8.76	8.85	8.88	8.96	9.05	9.12	9.22	9.26	8.63	8.56	8.44	8.34	8.25	8.20	8.16
150	9.12	9.15	9.20	9.28	9.34	9.39	9.40	9.46	9.53	9.59	9.63	9.65	9.17	9.09	9.00	8.95	8.87	8.80	8.79
155	9.56	9.58	9.61	9.69	9.76	9.79	9.81	9.83	9.87	9.87	9.86	9.89	9.53	9.47	9.40	9.38	9.33	9.30	9.28
160	9.89	9.90	9.93	9.96	10.0	10.1	10.0	10.1	10.1	10.0	10.1	10.1	9.82	9.77	9.71	9.69	9.69	9.66	9.64
165	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.3	10.3	10.1	10.1	10.0	9.97	9.93	9.94	9.93
170	10.3	10.4	10.3	10.4	10.4	10.4	10.3	10.3	10.3	10.4	10.4	10.4	10.3	10.3	10.3	10.2	10.2	10.2	10.1
175	10.5	10.5	10.5	10.6	10.6	10.5	10.5	10.5	10.5	10.5	10.6	10.5	10.5	10.5	10.6	10.5	10.5	10.4	10.4
180	10.7	10.7	10.7	10.7	10.7	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.7	10.7	10.7	10.7	10.7	10.6	10.6

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LUC
Test Date:03 January 2018
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.6476A P:138.7W PF:0.9737 Lamp Flux:20100.3x1 lm		
NAME: HB2200-130G-A100-G5 360EA-60D_180914	TYPE:LED	WEIGHT:
SPEC.:G5 360EA	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--2

UNIT: #10cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	1501	1500	1501	1500	1500														
5	1502	1506	1511	1514	1517														
10	1480	1495	1504	1508	1510														
15	1415	1444	1465	1480	1485														
20	1263	1313	1352	1382	1393														
25	1040	1089	1133	1173	1194														
30	824	864	895	926	945														
35	628	662	689	712	727														
40	457	483	506	523	536														
45	340	353	367	375	383														
50	256	262	270	276	281														
55	203	207	212	215	218														
60	151	156	161	164	166														
65	103	107	112	116	118														
70	73.9	77.2	79.5	82.2	83.5														
75	52.5	55.5	57.3	59.6	60.7														
80	32.1	34.4	36.8	38.7	39.6														
85	16.4	18.5	19.5	21.1	21.7														
90	5.32	5.01	5.20	5.92	6.28														
95	2.32	1.89	1.52	1.50	1.64														
100	1.72	1.66	1.64	1.63	1.73														
105	2.13	2.06	2.04	2.00	1.97														
110	2.75	2.57	2.51	2.46	2.41														
115	3.46	3.28	3.17	2.98	2.95														
120	4.28	4.10	3.88	3.64	3.60														
125	5.11	4.87	4.57	4.37	4.34														
130	5.86	5.61	5.34	5.17	5.17														
135	6.59	6.33	6.17	6.07	6.02														
140	7.29	7.10	6.99	6.92	6.87														
145	8.02	7.85	7.76	7.70	7.68														
150	8.68	8.56	8.47	8.39	8.40														
155	9.21	9.13	9.05	8.96	8.98														
160	9.60	9.53	9.47	9.42	9.42														
165	9.90	9.83	9.81	9.80	9.81														
170	10.2	10.1	10.1	10.1	10.1														
175	10.4	10.4	10.4	10.3	10.4														
180	10.6	10.6	10.6	10.6	10.6														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LUC
Test Date:03 January 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	15038	15022	15020	15027	15022	15010	15010	15012	15003	15008
3.0	15131	15095	15063	15046	15003	14979	14955	14925	14898	14882
6.0	15148	15091	15032	14996	14940	14887	14839	14769	14693	14643
9.0	15109	15039	14973	14895	14781	14679	14598	14486	14368	14272
12.0	15029	14937	14808	14659	14484	14341	14228	14056	13858	13714
15.0	14800	14664	14456	14256	14004	13793	13635	13374	13092	12874
18.0	14329	14146	13862	13581	13215	12941	12749	12414	12035	11754
21.0	13497	13267	12901	12541	12116	11813	11603	11228	10777	10467
24.0	12273	12043	11647	11257	10805	10486	10285	9907	9491	9199
27.0	10831	10627	10242	9881	9484	9205	9039	8687	8307	8019
30.0	9395	9247	8921	8607	8248	7988	7837	7522	7163	6898
33.0	8086	7955	7673	7402	7074	6847	6708	6393	6062	5801
36.0	6859	6744	6491	6256	5970	5768	5637	5353	5068	4837
39.0	5711	5620	5419	5220	4977	4808	4702	4474	4237	4061
42.0	4700	4640	4483	4326	4147	4027	3942	3782	3595	3435
45.0	3867	3833	3724	3617	3492	3395	3333	3214	3053	2907
48.0	3223	3206	3112	3038	2866	2833	2833	2729	2598	2488
51.0	2694	2685	2615	2556	2494	2453	2431	2369	2281	2220
54.0	2324	2327	2273	2235	2188	2165	2146	2083	2003	1937
57.0	1999	1997	1948	1917	1871	1853	1840	1784	1714	1650
60.0	1679	1675	1630	1604	1561	1546	1533	1483	1412	1351
63.0	1379	1375	1329	1306	1256	1234	1224	1162	1098	1050
66.0	1089	1080	1045	1032	998.1	976.0	970.8	932.3	893.7	861.1
69.0	894.9	888.5	863.2	845.7	816.5	794.4	791.6	761.0	723.3	694.8
72.0	731.9	724.7	703.6	685.6	662.7	646.4	644.1	621.7	591.9	569.7
75.0	605.3	597.6	579.6	562.9	540.8	527.0	523.9	499.8	470.7	446.2
78.0	475.5	468.9	448.4	433.7	413.4	402.3	400.6	378.5	352.4	330.3
81.0	347.8	341.5	323.0	312.9	297.8	290.8	288.4	274.1	251.8	236.5
84.0	241.8	235.2	226.9	221.2	206.6	199.7	202.0	187.5	168.7	151.1
87.0	150.0	139.3	133.1	128.2	115.4	110.8	115.9	102.2	85.44	74.95
90.0	61.09	52.53	47.31	47.54	48.94	56.34	64.43	62.04	58.48	55.06
93.0	21.59	21.47	21.09	24.88	34.01	42.23	47.95	43.46	33.30	28.16
96.0	24.19	23.73	23.10	23.60	27.68	31.29	34.41	32.37	28.40	25.07
99.0	24.70	24.22	24.05	24.43	26.11	27.47	29.57	30.12	28.24	26.90
102.0	25.81	25.93	26.54	26.84	27.29	28.30	29.04	29.60	29.54	29.94
105.0	28.50	28.89	29.84	30.67	30.34	31.20	31.40	31.99	32.70	33.45
108.0	31.63	31.96	33.53	33.64	34.64	35.68	35.47	35.75	36.53	37.47
111.0	34.96	35.40	36.50	37.94	39.27	40.25	39.99	40.21	40.88	42.20
114.0	38.78	39.19	40.24	42.21	43.81	44.83	44.70	45.23	46.01	47.10
117.0	42.88	43.28	44.25	46.66	48.72	49.76	49.55	50.22	51.28	51.68
120.0	47.20	47.58	48.28	50.53	53.02	54.78	54.73	55.67	56.29	56.22
123.0	51.64	52.09	52.91	54.65	57.29	59.38	59.80	60.78	61.18	60.76
126.0	56.15	56.65	57.45	59.23	62.00	64.17	64.38	65.36	65.98	65.43
129.0	60.88	61.48	62.02	63.81	66.42	68.41	68.64	69.71	70.31	70.06
132.0	65.68	66.15	66.97	68.35	70.52	72.41	72.83	73.89	74.24	74.35
135.0	70.52	71.07	72.06	72.95	74.47	76.22	76.66	77.73	78.09	78.68
138.0	75.14	75.74	76.75	77.49	78.61	79.75	80.51	81.33	81.98	82.69
141.0	79.47	80.32	81.07	81.75	82.53	83.72	84.02	84.98	85.78	86.55
144.0	83.86	84.37	85.04	85.61	86.45	87.39	87.66	88.55	89.18	90.07
147.0	87.70	88.16	88.65	89.50	90.13	90.82	90.89	91.73	92.55	93.35
150.0	91.17	91.50	91.99	92.82	93.45	93.90	94.01	94.61	95.33	95.92
153.0	94.07	94.28	94.60	95.48	96.10	96.54	96.57	96.92	97.44	97.75
156.0	96.36	96.57	96.80	97.49	98.28	98.57	98.62	98.77	99.13	99.15
159.0	98.24	98.38	98.72	99.21	99.96	100.3	100.0	100.2	100.3	100.2
162.0	100.0	100.2	100.3	100.6	101.0	101.2	101.3	101.3	101.0	101.1
165.0	101.7	101.8	101.8	101.9	102.0	102.4	102.2	102.1	101.8	102.0
168.0	102.9	103.0	102.9	102.9	103.2	103.4	102.9	102.7	102.7	103.0
171.0	103.7	103.9	103.8	104.1	104.5	104.1	103.6	103.5	103.8	104.0
174.0	104.6	104.7	104.9	105.4	105.5	105.0	104.5	104.4	104.6	105.0
177.0	105.7	105.9	106.1	106.5	106.5	105.8	105.3	105.3	105.6	106.0
180.0	106.5	106.7	106.8	107.1	106.7	106.1	106.0	105.9	106.1	106.2
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	14996	15001	15038	15022	15020	15027	15022	15010	15010	15012
3.0	14853	14849	14905	14908	14933	14955	14974	14990	15004	15029
6.0	14583	14574	14644	14669	14719	14773	14836	14896	14939	15005
9.0	14185	14161	14245	14290	14381	14475	14589	14685	14758	14871
12.0	13571	13535	13643	13721	13864	14003	14182	14331	14423	14615
15.0	12678	12607	12750	12844	13069	13272	13530	13735	13890	14154
18.0	11503	11399	11556	11682	11949	12203	12552	12796	12991	13370
21.0	10191	10075	10231	10363	10653	10930	11301	11590	11790	12218
24.0	8919	8802	8947	9086	9375	9642	9982	10266	10444	10856
27.0	7741	7618	7765	7924	8195	8436	8747	8999	9145	9512
30.0	6605	6495	6635	6810	7075	7298	7589	7794	7921	8237

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature: 25.3DEG

Operators: LUC

Test Date: 03 January 2018

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351

Humidity: 65.0%

Test Distance: 8.000m [K=1.0000]

Remarks: HB2200-130G-A100-G5 360EA-60D_180914

Photometric Data Table [cd]

33.0	5517	5413	5545	5712	5968	6164	6449	6664	6765	7051
36.0	4600	4492	4636	4770	4972	5150	5379	5562	5650	5904
39.0	3871	3790	3920	4037	4177	4324	4506	4617	4680	4881
42.0	3283	3226	3325	3430	3553	3659	3792	3880	3914	4052
45.0	2795	2742	2826	2925	3038	3099	3200	3278	3296	3403
48.0	2390	2354	2426	2502	2589	2632	2704	2774	2781	2857
51.0	2134	2101	2166	2225	2295	2318	2355	2391	2397	2437
54.0	1849	1819	1882	1929	1987	2011	2059	2090	2093	2133
57.0	1562	1536	1593	1630	1682	1709	1752	1778	1776	1813
60.0	1265	1242	1294	1324	1378	1407	1452	1477	1474	1509
63.0	991.0	976.7	1009	1034	1073	1104	1143	1167	1167	1214
66.0	812.2	800.3	823.2	842.8	873.6	898.4	926.3	940.4	942.6	967.4
69.0	660.1	650.6	663.5	680.0	706.0	725.2	749.1	764.8	764.5	790.8
72.0	539.9	528.5	539.8	551.3	573.7	594.0	614.0	624.1	626.5	645.5
75.0	420.8	409.3	416.9	427.2	445.2	465.6	485.1	498.3	502.7	524.8
78.0	308.5	299.8	303.5	311.9	330.0	344.0	362.8	375.5	378.5	401.7
81.0	220.8	215.3	216.8	220.7	235.4	243.0	256.3	264.5	268.5	286.4
84.0	135.7	128.8	130.6	133.7	147.7	150.7	163.2	173.5	179.4	195.0
87.0	67.31	66.25	63.08	62.17	69.34	68.29	76.33	79.45	82.54	106.7
90.0	51.58	50.72	47.08	46.10	49.33	49.18	49.59	49.81	53.72	53.24
93.0	27.72	30.14	26.25	26.42	26.20	24.53	29.41	34.81	36.83	33.91
96.0	24.75	25.88	18.12	17.65	16.90	15.99	17.48	19.26	19.97	18.75
99.0	27.37	28.24	19.12	18.82	18.16	17.79	17.43	17.39	17.34	16.60
102.0	30.63	31.04	21.51	21.11	20.68	20.34	19.82	19.58	19.26	18.70
105.0	34.55	34.91	24.70	24.39	23.74	23.25	22.67	22.42	22.15	21.30
108.0	39.16	39.01	28.49	28.12	27.75	26.63	25.91	25.73	25.68	24.76
111.0	43.15	43.24	32.35	32.01	31.65	30.43	29.59	29.44	29.74	28.88
114.0	47.42	47.57	36.58	36.19	35.75	35.05	33.84	33.86	34.11	33.04
117.0	51.75	52.17	41.27	40.61	39.87	39.92	38.82	38.68	38.86	37.76
120.0	56.17	56.94	46.22	45.44	44.41	44.48	44.09	43.88	43.89	42.84
123.0	60.99	61.76	51.24	50.44	49.20	49.15	49.19	49.28	49.05	47.84
126.0	65.65	66.56	56.38	55.59	54.31	54.15	54.25	54.50	54.09	52.70
129.0	70.36	71.29	61.55	60.75	59.38	59.09	59.09	59.05	58.61	57.20
132.0	75.10	75.98	66.82	65.91	64.51	63.78	63.68	63.64	63.07	61.55
135.0	79.65	80.38	71.96	70.93	69.55	68.62	68.05	68.01	67.45	65.90
138.0	84.03	84.46	76.72	75.64	74.43	73.30	72.37	72.15	71.74	69.99
141.0	87.89	88.22	81.01	80.17	79.14	77.78	76.85	76.28	75.81	74.41
144.0	91.30	91.57	84.99	84.30	83.16	81.98	81.05	80.61	80.23	78.81
147.0	94.11	94.33	88.73	87.92	86.81	86.01	85.08	84.42	84.10	82.95
150.0	96.27	96.50	91.74	90.94	89.96	89.49	88.70	88.05	87.87	86.80
153.0	97.82	98.17	94.01	93.34	92.62	92.22	91.67	91.19	91.01	90.17
156.0	99.01	99.26	95.93	95.33	94.61	94.55	94.17	93.79	93.60	92.96
159.0	100.2	100.4	97.57	97.09	96.48	96.33	96.29	95.97	95.76	95.32
162.0	101.4	101.5	99.30	98.90	98.40	98.08	97.77	97.84	97.67	97.17
165.0	102.6	102.7	101.1	100.8	100.3	99.70	99.28	99.44	99.34	98.99
168.0	103.8	103.9	102.5	102.5	102.0	101.3	100.7	100.6	100.5	100.6
171.0	104.6	104.6	103.7	103.8	103.5	102.9	102.5	102.0	101.8	101.9
174.0	105.6	105.2	104.9	104.9	105.1	104.7	104.1	103.6	103.3	103.4
177.0	106.3	106.0	106.4	106.3	106.5	106.2	105.5	105.2	105.1	104.8
180.0	106.0	105.6	106.6	106.7	106.8	107.1	106.6	106.1	106.0	105.9
G/C	300.0	315.0	330.0	345.0						
0.0	15003	15008	14996	15001						
3.0	15054	15091	15097	15115						
6.0	15051	15098	15144	15179						
9.0	14992	15061	15104	15127						
12.0	14803	14936	15031	15041						
15.0	14435	14649	14798	14850						
18.0	13784	14107	14334	14406						
21.0	12724	13149	13494	13629						
24.0	11381	11811	12221	12409						
27.0	9952	10324	10712	10942						
30.0	8635	8953	9257	9449						
33.0	7406	7680	7943	8114						
36.0	6241	6510	6732	6873						
39.0	5156	5392	5585	5724						
42.0	4247	4431	4578	4686						
45.0	3530	3665	3745	3826						
48.0	2958	3046	3114	3173						
51.0	2487	2546	2598	2651						
54.0	2177	2220	2249	2280						
57.0	1867	1910	1941	1964						
60.0	1563	1605	1638	1656						
63.0	1272	1316	1353	1367						
66.0	1003	1039	1070	1082						

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LUC
Test Date: 03 January 2018

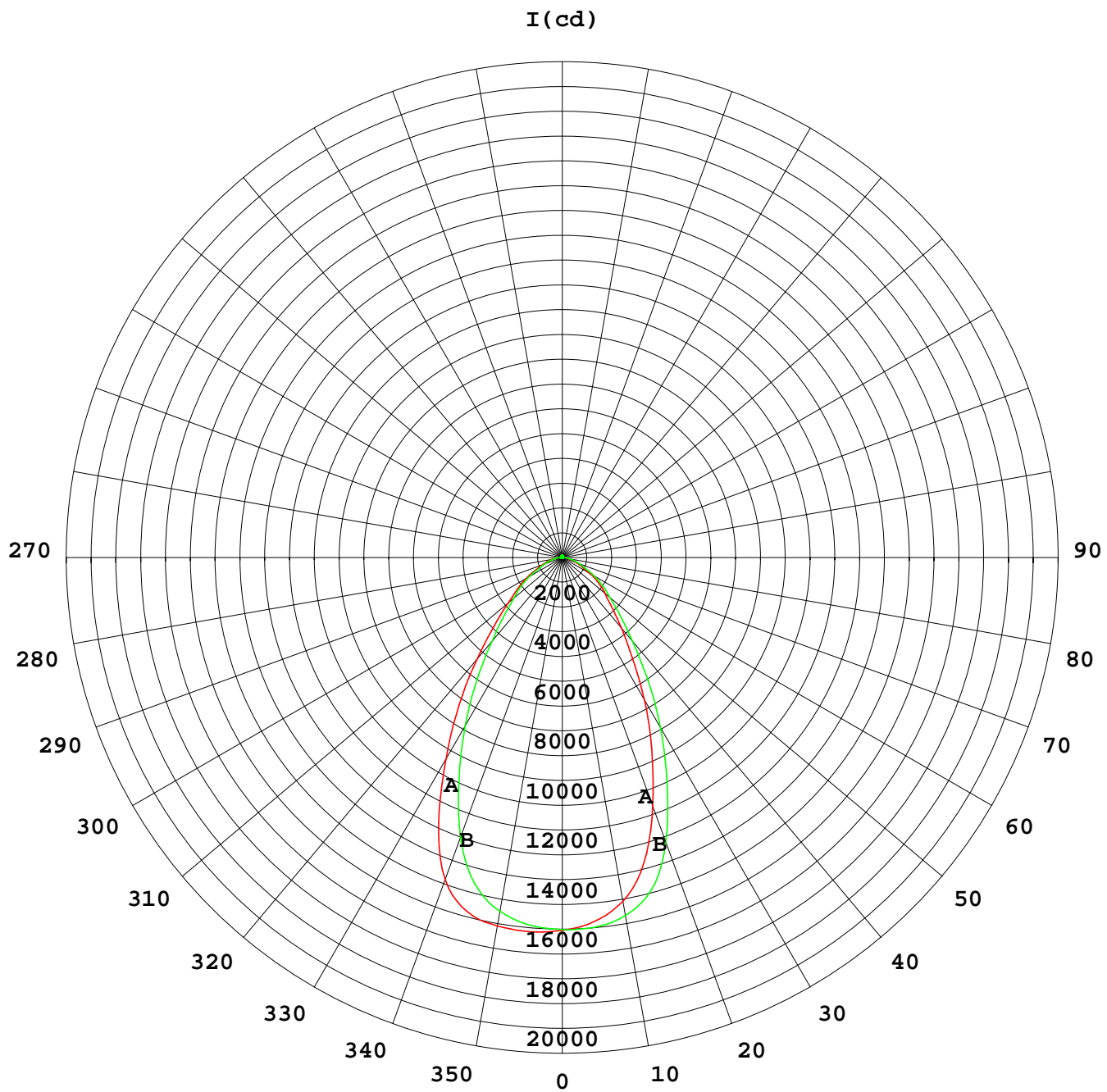
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914

Photometric Data Table [cd]

69.0	828.5	851.2	879.1	890.6
72.0	673.4	691.3	717.6	730.4
75.0	555.2	572.7	596.3	607.3
78.0	426.7	452.0	469.8	480.7
81.0	306.3	326.2	346.1	355.0
84.0	215.1	225.6	241.8	248.8
87.0	124.2	133.1	146.0	153.7
90.0	50.15	52.03	59.19	62.81
93.0	25.44	15.54	13.73	14.65
96.0	16.15	14.94	15.37	17.03
99.0	16.07	15.80	16.11	17.40
102.0	18.06	17.69	17.70	17.42
105.0	20.57	20.35	20.04	19.66
108.0	23.36	23.05	22.90	22.36
111.0	27.10	26.30	25.45	24.91
114.0	31.36	30.30	28.63	28.31
117.0	35.95	34.38	32.58	31.99
120.0	41.04	38.80	36.39	35.99
123.0	45.53	42.96	40.73	40.42
126.0	50.28	47.29	45.26	44.97
129.0	54.67	51.90	50.06	49.94
132.0	58.98	56.75	55.15	54.98
135.0	63.31	61.70	60.65	60.21
138.0	67.92	66.60	65.82	65.45
141.0	72.49	71.50	70.73	70.37
144.0	77.07	76.11	75.54	75.27
147.0	81.51	80.53	79.87	79.83
150.0	85.63	84.74	83.94	83.99
153.0	89.22	88.45	87.56	87.62
156.0	92.11	91.29	90.57	90.78
159.0	94.60	93.92	93.34	93.37
162.0	96.63	96.11	95.77	95.86
165.0	98.32	98.13	97.96	98.07
168.0	100.0	99.79	99.76	99.92
171.0	101.8	101.4	101.2	101.5
174.0	103.4	103.1	102.8	103.0
177.0	104.9	104.9	104.5	104.6
180.0	106.0	106.3	105.9	105.6

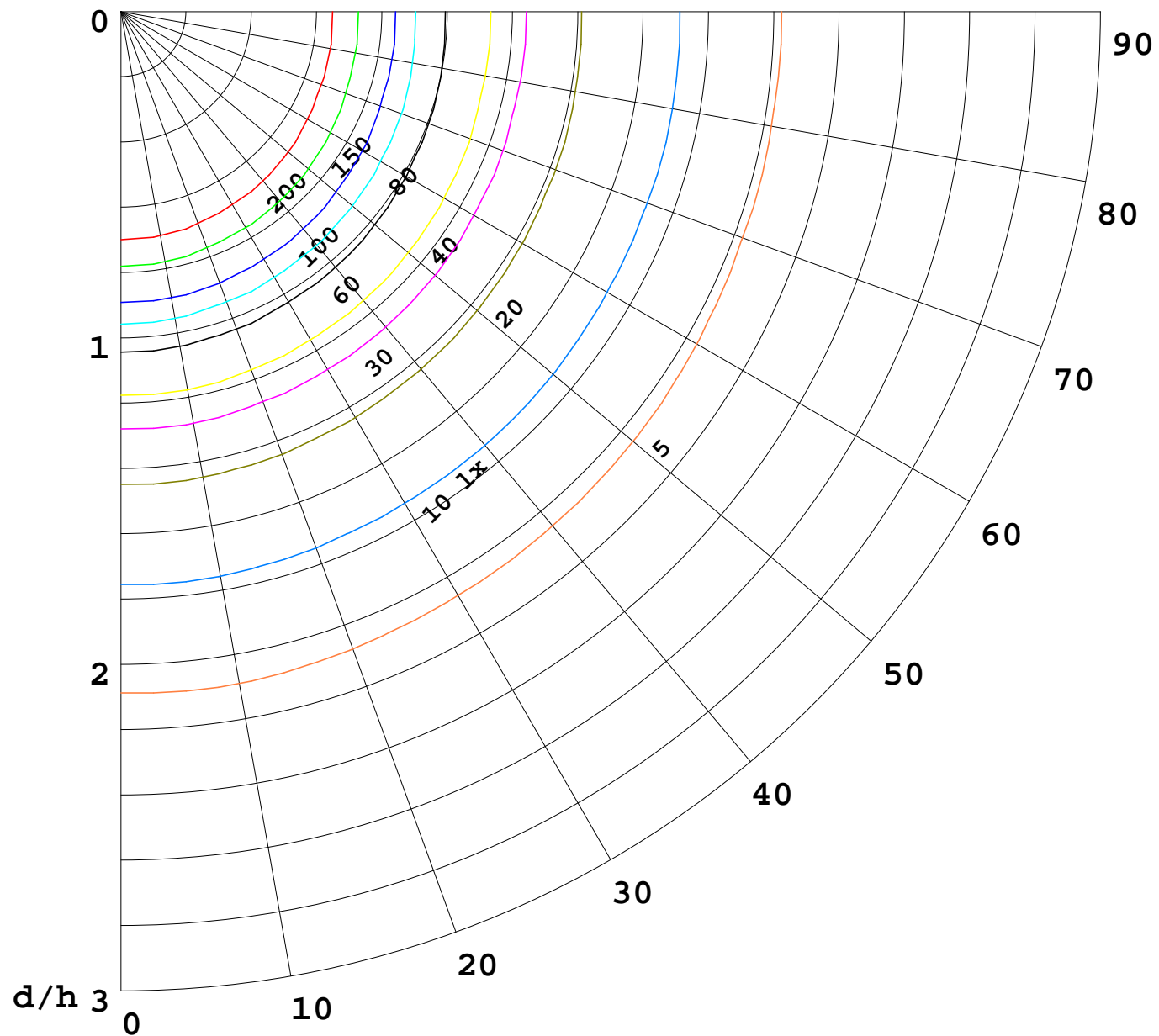
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LUC
Test Date: 03 January 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks: HB2200-130G-A100-G5 360EA-60D_180914



1000 lm

$K = 1$



F = 1000 lm
 K = 0.7
 H_{cc} = 0.8 m
 H_{fc} = 0.0 m
 E_{ave} = 100 lx

	P_{cc}	P_w	P_{fc}
—————	70	50	30
—————	50	30	20

