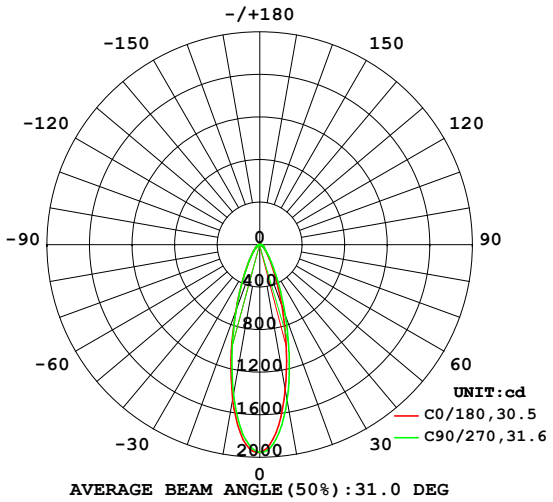
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: KB-H20-25P-3535R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:01
MFR.: Kingbrite	SUR.:	Shielding Angle:

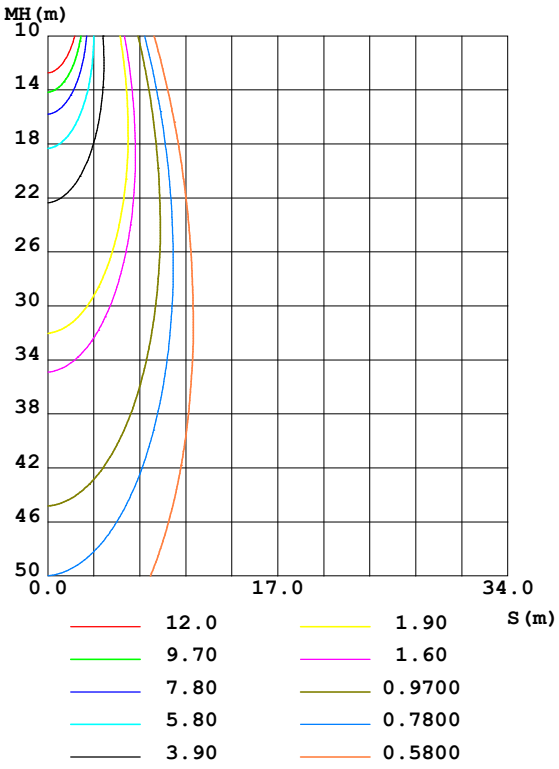
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 104.90 lm/W	
MODEL	XHP-HD	Imax(cd)	1954	S/MH(C0/180)	0.52
NOMINAL POWER(W)	8	LOR(%)	1035.1	S/MH(C90/270)	0.51
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	893.72	η UP,DN(C0-180)	0.0,526.0
NOMINAL FLUX(lm)	86.3384	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,509.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	12	η down(%)	1035.1	CIBSE SHR MAX	0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):31.0 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Liu
Test Date:05 November 2026

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [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	1385	1449	1486	1494	1473	1446	1427	1386	0- 10	160.6	160.6	18,186
20	608.4	671.7	703.3	692.9	658.0	651.7	648.5	615.6	10- 20	279.7	440.3	49.3,510
30	231.7	263.5	269.7	264.2	244.5	248.8	247.1	236.6	20- 30	189.1	629.5	70.4,729
40	104.4	117.1	116.8	119.1	109.6	114.0	108.2	108.7	30- 40	104.7	734.1	82.1,850
50	56.91	71.12	61.50	65.57	60.01	63.23	57.40	59.80	40- 50	64.07	798.2	89.3,925
60	33.40	43.88	35.54	38.02	35.41	36.72	33.49	34.90	50- 60	42.96	841.2	94.1,974
70	19.92	21.60	21.68	22.71	21.19	21.96	20.34	20.78	60- 70	27.74	868.997.2	1,1.01e+003
80	10.84	11.45	11.99	11.73	11.85	11.16	11.27	10.46	70- 80	16.97	885.999.1	1,1.03e+003
90	3.523	3.307	4.126	3.458	4.074	3.475	3.825	3.092	80- 90	7.846	893.7 100	1,1.04e+003
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd Less than 35% Percent = 8.5 %									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Liu
Test Date:05 November 2026

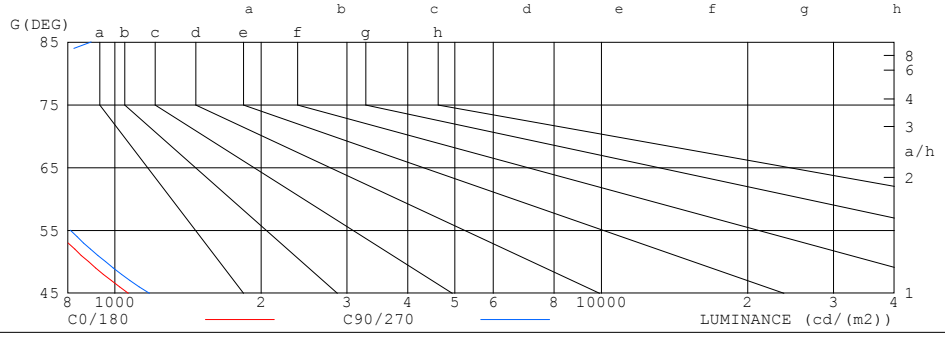
γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: KB-H20-25P-3535R	**TYPE:**	**WEIGHT:**
SPEC.:	**DIM.:**	**SERIAL No.:01**
MFR.: Kingbrite	**SUR.:**	**Shielding Angle:**

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	773	894
80	623	691
75	583	635
70	582	634
65	610	655
60	667	711
55	758	811
50	884	957
45	1066	1179

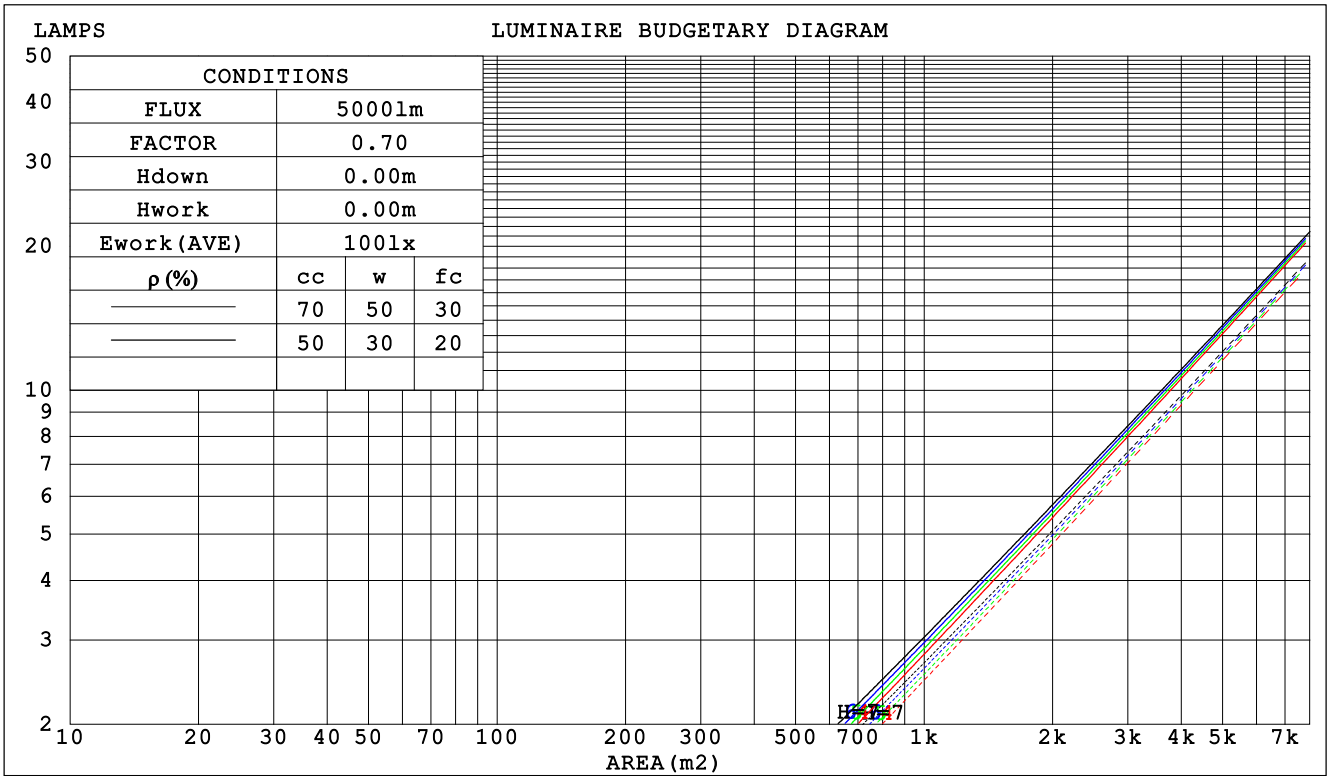
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Liu
Test Date:05 November 2026

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: KB-H20-25P-3535R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:01
MFR.: Kingbrite	SUR.:	Shielding Angle:

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			Coefficients of Utilization(CU)												
0.0	12.32	12.32	12.32	12.04	12.04	12.04	11.50	11.50	11.50	11.01	11.01	11.01	10.56	10.56	10.56	10.35
1.0	11.35	11.07	10.81	11.13	10.87	10.63	10.70	10.50	10.31	10.32	10.15	10.00	9.96	9.83	9.71	9.52
2.0	10.51	10.05	9.67	10.33	9.91	9.56	9.99	9.65	9.35	9.67	9.40	9.15	9.39	9.16	8.96	8.78
3.0	9.78	9.23	8.80	9.63	9.13	8.72	9.36	8.93	8.58	9.10	8.75	8.45	8.87	8.57	8.32	8.15
4.0	9.15	8.55	8.10	9.03	8.48	8.05	8.80	8.33	7.95	8.59	8.19	7.86	8.40	8.05	7.77	7.61
5.0	8.60	7.98	7.53	8.50	7.92	7.49	8.31	7.81	7.42	8.14	7.70	7.36	7.98	7.60	7.29	7.14
6.0	8.12	7.49	7.04	8.03	7.45	7.02	7.88	7.36	6.97	7.73	7.27	6.92	7.59	7.19	6.88	6.73
7.0	7.69	7.07	6.63	7.62	7.03	6.61	7.49	6.96	6.58	7.36	6.89	6.54	7.25	6.83	6.51	6.36
8.0	7.30	6.69	6.28	7.24	6.67	6.26	7.13	6.61	6.23	7.03	6.55	6.21	6.93	6.50	6.18	6.04
9.0	6.96	6.36	5.96	6.91	6.34	5.95	6.81	6.29	5.93	6.72	6.25	5.91	6.64	6.20	5.89	5.75
10.0	6.65	6.07	5.68	6.60	6.05	5.67	6.52	6.01	5.66	6.44	5.97	5.64	6.37	5.94	5.63	5.50



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Liu
Test Date:05 November 2026

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: KB-H20-25P-3535R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:01
MFR.: Kingbrite	SUR.:	Shielding Angle:

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 Coeffcients(WEC)												
0.0																
1.0	2.058	1.170	.371	1.988	1.134	.360	1.856	1.065	.340	1.736	1.001	.321	1.624	.941	.304	
2.0	1.922	1.054	.323	1.863	1.026	.316	1.752	.974	.303	1.649	.925	.290	1.555	.879	.277	
3.0	1.793	.954	.286	1.743	.933	.281	1.648	.893	.271	1.560	.855	.262	1.478	.818	.253	
4.0	1.676	.871	.256	1.633	.855	.253	1.551	.823	.246	1.475	.792	.239	1.404	.763	.232	
5.0	1.573	.801	.232	1.535	.788	.230	1.464	.762	.224	1.397	.737	.219	1.335	.713	.214	
6.0	1.480	.742	.212	1.447	.731	.210	1.385	.710	.206	1.326	.689	.203	1.272	.670	.199	
7.0	1.398	.691	.196	1.369	.682	.194	1.314	.664	.191	1.262	.647	.188	1.213	.630	.185	
8.0	1.324	.647	.182	1.298	.639	.181	1.249	.624	.178	1.203	.610	.176	1.160	.596	.173	
9.0	1.257	.608	.170	1.234	.602	.169	1.191	.589	.167	1.149	.576	.165	1.111	.564	.163	
10.0	1.197	.574	.159	1.176	.568	.159	1.137	.557	.157	1.100	.546	.155	1.065	.536	.154	

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	1.972	1.972	1.972	1.685	1.685	1.685	1.150	1.150	1.150	.661	.661	.661	.211	.211	.211	
1.0	1.787	1.626	1.482	1.529	1.396	1.275	1.046	.960	.882	.602	.556	.513	.193	.179	.166	
2.0	1.636	1.371	1.147	1.402	1.180	.992	.961	.816	.692	.554	.475	.406	.178	.154	.132	
3.0	1.510	1.176	.911	1.294	1.015	.790	.889	.705	.554	.513	.412	.326	.165	.134	.107	
4.0	1.401	1.025	.738	1.202	.886	.641	.827	.617	.452	.478	.362	.267	.154	.118	.088	
5.0	1.307	.905	.609	1.122	.783	.530	.773	.547	.374	.448	.321	.222	.144	.105	.073	
6.0	1.225	.809	.510	1.053	.701	.444	.726	.490	.314	.421	.288	.187	.136	.094	.062	
7.0	1.152	.730	.434	.991	.633	.378	.685	.444	.268	.398	.261	.159	.129	.086	.053	
8.0	1.088	.664	.373	.937	.576	.326	.648	.405	.231	.377	.239	.138	.122	.078	.046	
9.0	1.031	.609	.325	.888	.529	.284	.615	.372	.201	.358	.220	.120	.116	.072	.040	
10.0	.979	.563	.286	.844	.489	.250	.586	.344	.177	.342	.203	.106	.111	.067	.035	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Liu
Test Date:05 November 2026

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: KB-H20-25P-3535R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:01
MFR.: Kingbrite	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	17.4	18.4	17.7	18.6	18.7	17.7	18.7	18.0	18.9	19.1
	3H	18.2	19.1	18.5	19.3	19.6	18.6	19.5	18.9	19.7	19.9
	4H	18.7	19.5	18.9	19.7	20.0	19.0	19.9	19.3	20.1	20.3
	6H	19.1	19.9	19.4	20.1	20.4	19.5	20.3	19.8	20.5	20.8
	8H	19.3	20.1	19.6	20.3	20.6	19.7	20.5	20.0	20.7	21.0
	12H	19.5	20.2	19.8	20.5	20.8	19.9	20.7	20.3	21.0	21.2
4H	2H	17.9	18.7	18.1	18.9	19.2	18.1	19.0	18.4	19.2	19.4
	3H	18.9	19.6	19.2	19.9	20.2	19.2	19.9	19.5	20.2	20.5
	4H	19.4	20.1	19.8	20.4	20.7	19.7	20.4	20.1	20.7	21.0
	6H	20.0	20.6	20.4	21.0	21.3	20.4	21.0	20.7	21.3	21.6
	8H	20.3	20.9	20.7	21.2	21.6	20.7	21.2	21.1	21.6	22.0
	12H	20.6	21.1	21.0	21.4	21.8	21.0	21.5	21.4	21.9	22.3
8H	4H	19.7	20.2	20.1	20.6	21.0	20.0	20.5	20.3	20.9	21.2
	6H	20.4	20.9	20.9	21.3	21.7	20.7	21.2	21.2	21.6	22.0
	8H	20.8	21.2	21.3	21.7	22.1	21.2	21.6	21.6	22.0	22.4
	12H	21.2	21.6	21.7	22.0	22.5	21.6	22.0	22.1	22.4	22.9
12H	4H	19.7	20.2	20.1	20.6	21.0	20.0	20.5	20.4	20.9	21.2
	6H	20.5	20.9	21.0	21.3	21.8	20.8	21.2	21.3	21.6	22.1
	8H	21.0	21.3	21.4	21.8	22.2	21.3	21.7	21.8	22.1	22.6

Variations with the observer position at spacings:		
S = 1.0H	+ 0.3 / - 0.4	+ 0.3 / - 0.5
1.5H	+ 0.2 / - 0.5	+ 0.3 / - 0.4
2.0H	+ 0.3 / - 0.7	+ 0.4 / - 0.6

CIE Pub.117, 86.34 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -8.5)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Liu
Test Date:05 November 2026

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: KB-H20-25P-3535R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:01
MFR.: Kingbrite	SUR.:	Shielding Angle:

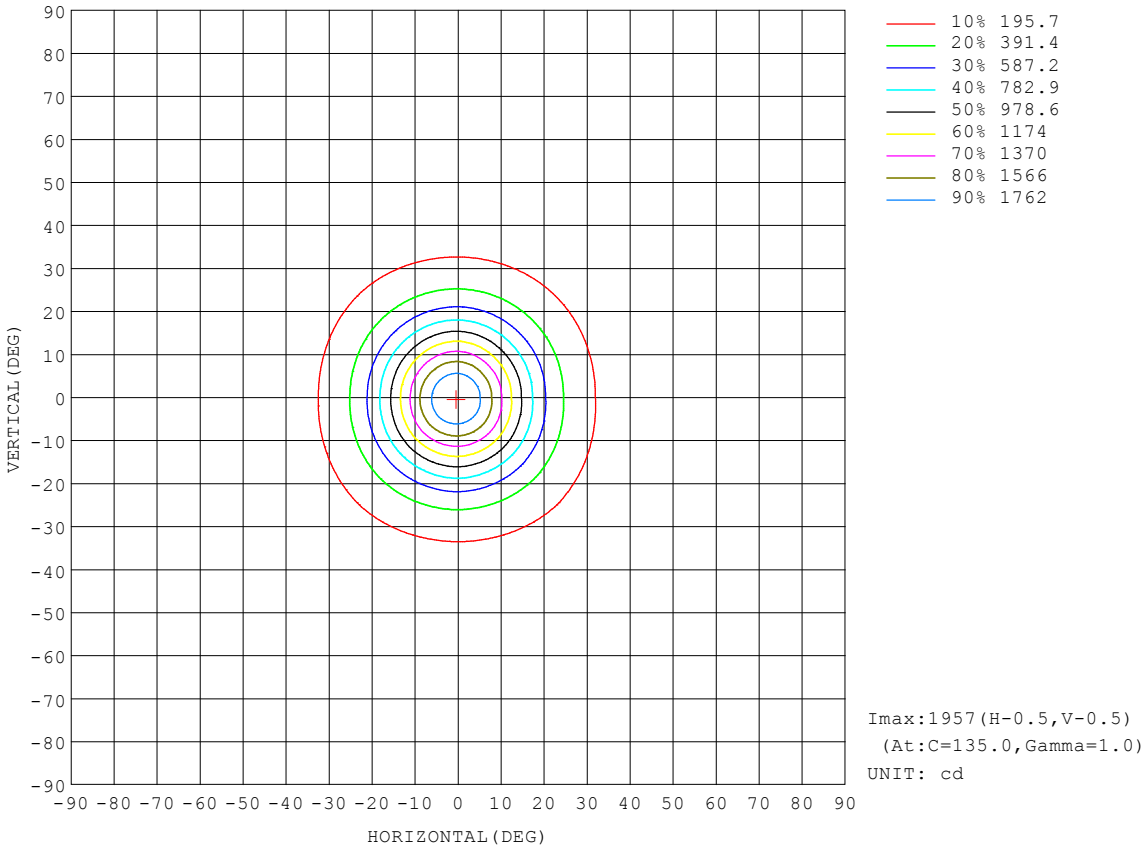
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	833	755	708	827	753	707	818	749	706	662
0.80	916	842	795	908	838	793	895	832	789	744
1.00	971	900	854	962	895	851	944	898	846	797
1.25	1020	953	909	1008	947	905	986	934	896	846
1.50	1053	992	948	1039	984	943	1014	967	932	878
2.00	1090	1036	996	1075	1025	987	1045	1004	972	912
2.50	1113	1064	1025	1095	1050	1016	1061	1025	996	929
3.00	1133	1089	1054	1113	1074	1042	1077	1046	1020	949
4.00	1159	1122	1093	1136	1105	1079	1097	1072	1051	973
5.00	1174	1144	1119	1151	1125	1103	1109	1089	1071	988
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:Liu
Test Date:05 November 2026

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: KB-H20-25P-3535R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:01
MFR.: Kingbrite	SUR.:	Shielding Angle:



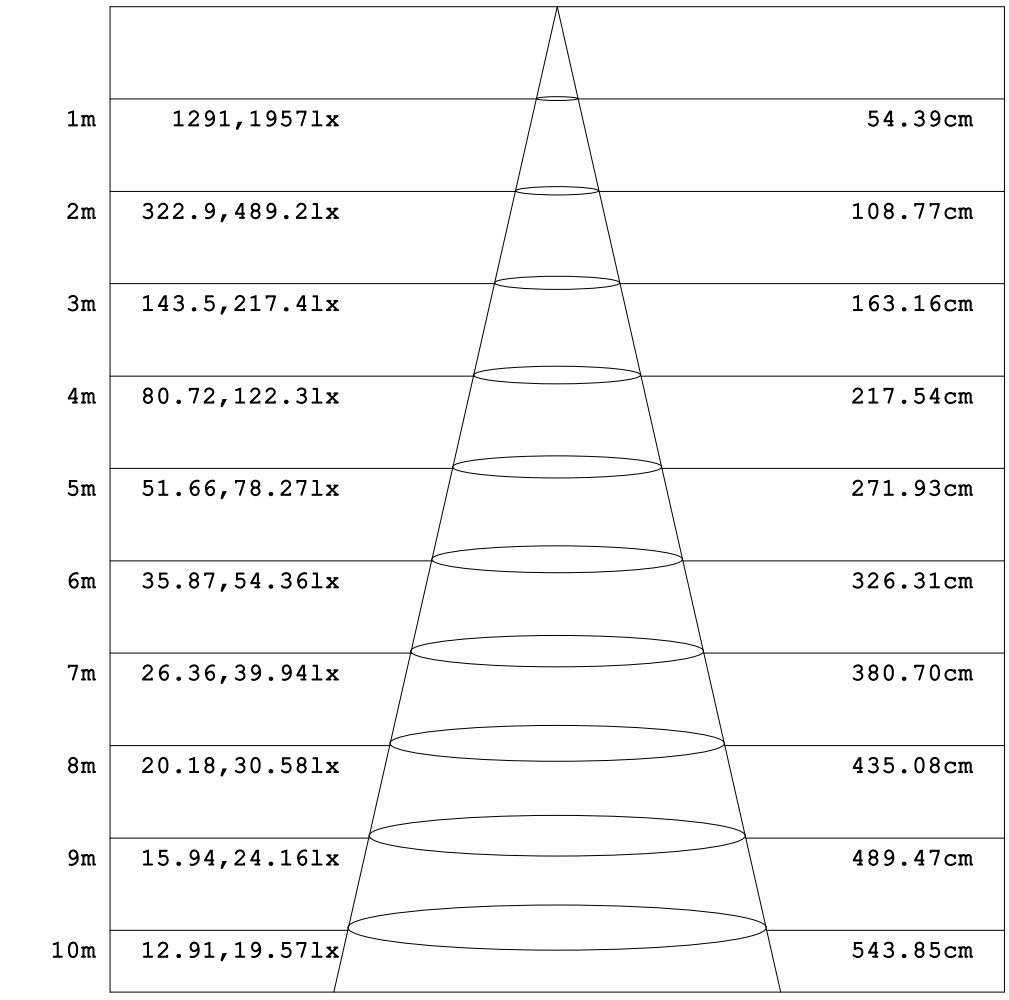
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Liu
Test Date:05 November 2026

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

AAI Figure

NAME: KB-H20-25P-3535R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:01
MFR.: Kingbrite	SUR.:	Shielding Angle:

Flux out:333.6 lm



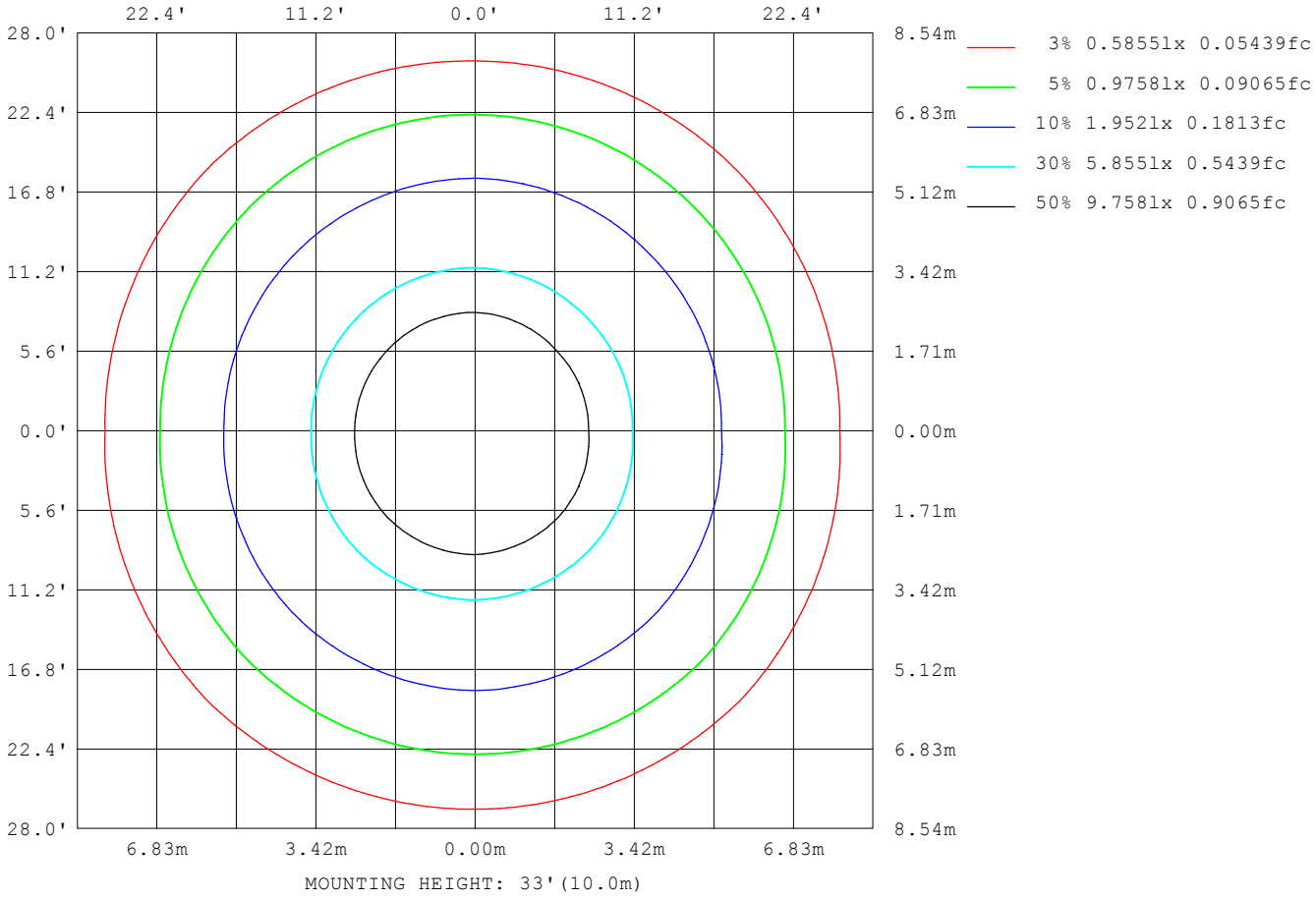
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Liu
Test Date:05 November 2026

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: KB-H20-25P-3535R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:01
MFR.: Kingbrite	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Liu
Test Date:05 November 2026

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: KB-H20-25P-3535R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:01
MFR.: Kingbrite	SUR.:	Shielding Angle:

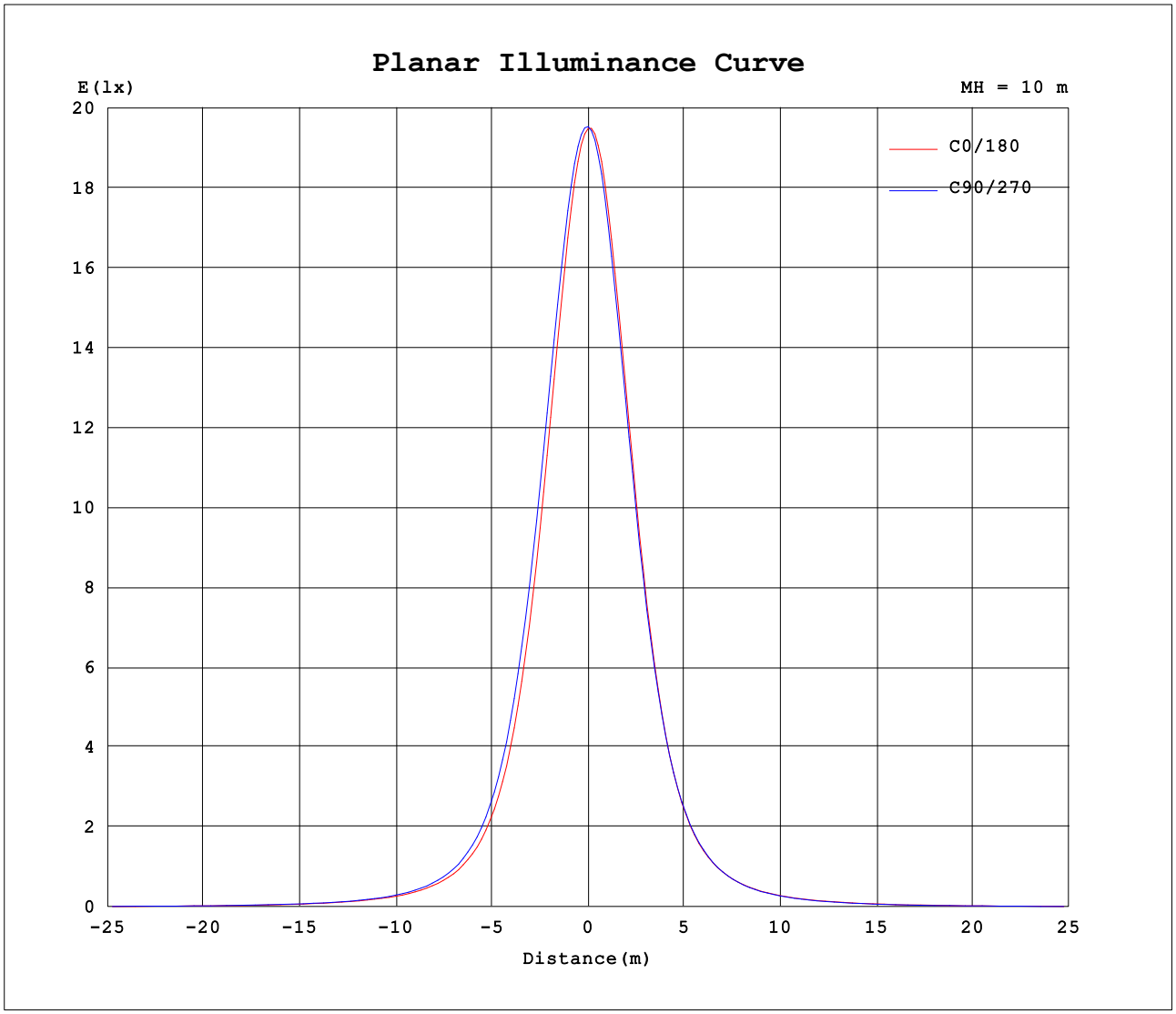
AvgL	cd/m2
L_0~180(65)av	629
L_0~180(75)av	604
L_0~180(85)av	835
L_90~270(65)av	637
L_90~270(75)av	618
L_90~270(85)av	857
L_45(65)av	674
L_45(75)av	621
L_45(85)av	781

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Liu
Test Date:05 November 2026

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Liu
Test Date:05 November 2026

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

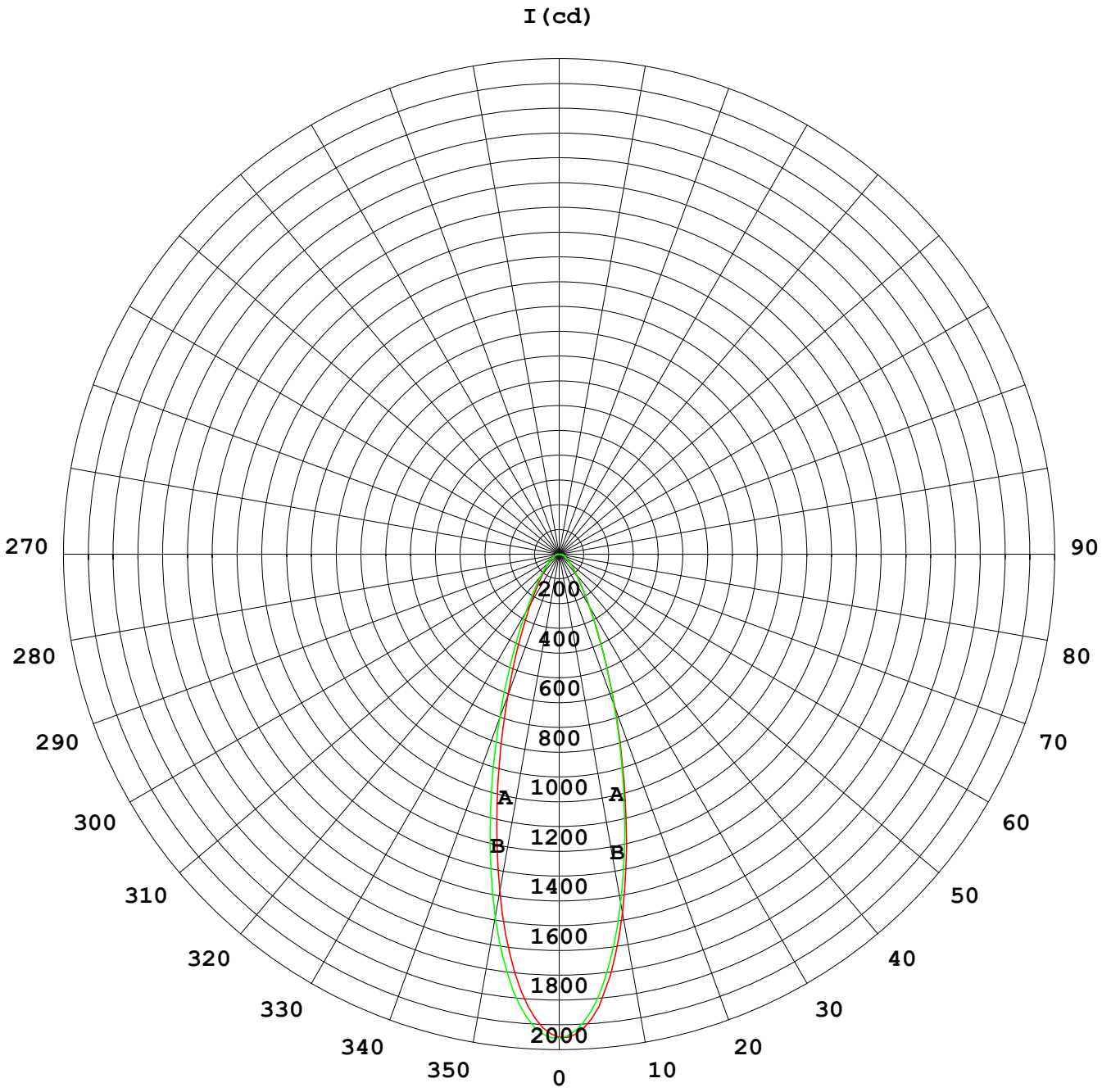
NAME: KB-H20-25P-3535R	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:01
MFR.: Kingbrite	SUR.:	Shielding Angle:

Table--1 UNIT: cd

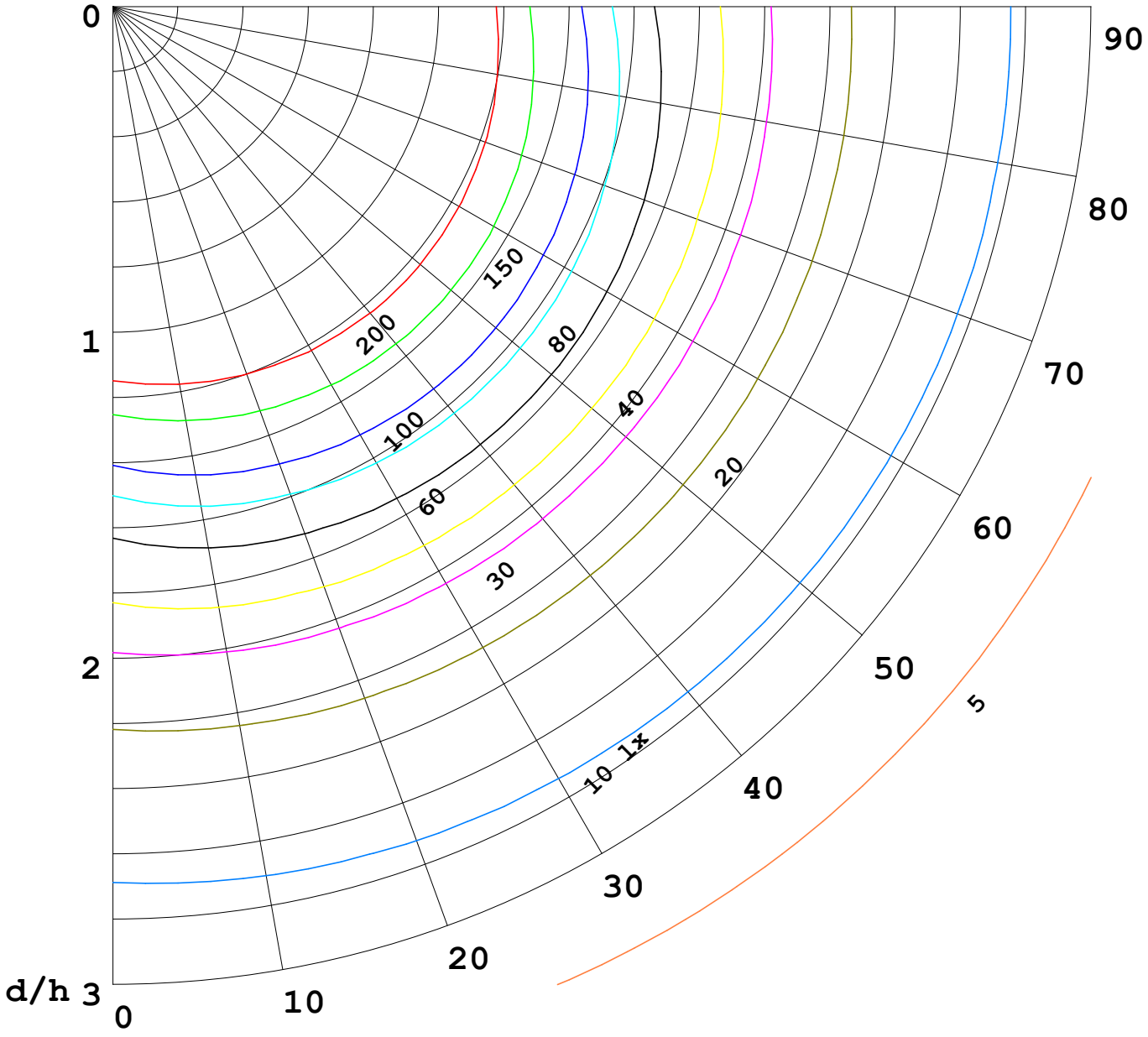
γ (DEG) \ C(DEG)	0	45	90	135	180	225	270	315
0	1953	1953	1953	1953	1953	1953	1953	1953
5	1773	1808	1827	1841	1837	1810	1797	1771
10	1385	1449	1486	1494	1473	1446	1427	1386
15	959	1030	1073	1064	1034	1016	1006	962
20	608	672	703	693	658	652	649	616
25	373	418	436	427	399	400	399	379
30	232	263	270	264	245	249	247	237
35	151	172	173	172	160	163	160	156
40	104	117	117	119	110	114	108	109
45	75.5	86.7	83.3	86.9	79.7	83.9	77.3	79.4
50	56.9	71.1	61.5	65.6	60.0	63.2	57.4	59.8
55	43.5	58.0	46.5	49.8	46.0	48.0	43.6	45.6
60	33.4	43.9	35.5	38.0	35.4	36.7	33.5	34.9
65	25.8	28.9	27.6	29.4	27.4	28.5	26.2	27.1
70	19.9	21.6	21.7	22.7	21.2	22.0	20.3	20.8
75	15.1	16.2	16.4	16.8	16.2	16.1	15.5	15.3
80	10.8	11.4	12.0	11.7	11.8	11.2	11.3	10.5
85	6.75	7.03	7.79	7.28	7.80	6.81	7.15	6.11
90	3.52	3.31	4.13	3.46	4.07	3.47	3.83	3.09

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Liu
Test Date:05 November 2026

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.401
Humidity:65.0%
Test Distance:5.868m [K=1.0000]
Remarks:


I(cd)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
280
290
300
310
320
330
340
350
200
400
600
800
1000
1200
1400
1600
1800
2000
A
A
B
B

1000 lm K = 1



F = 5000 lm
K = 0.7
Hcc = 0.0 m
Hfc = 0.0 m
Eave = 100 lx

	Pcc	Pw	Pfc
———	70	50	30
———	50	30	20

