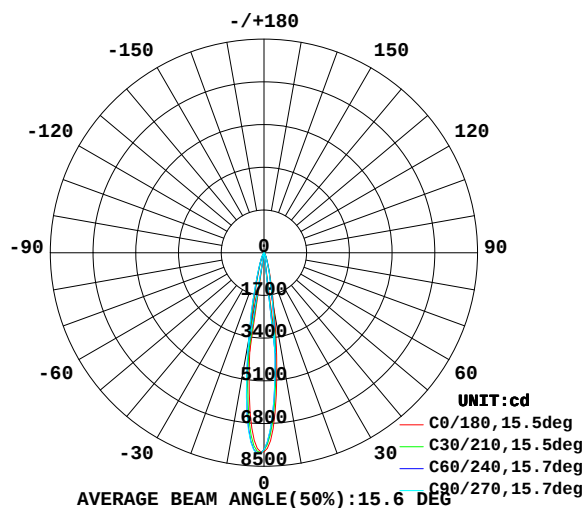


LUMINAIRE PHOTOMETRIC TEST REPORT

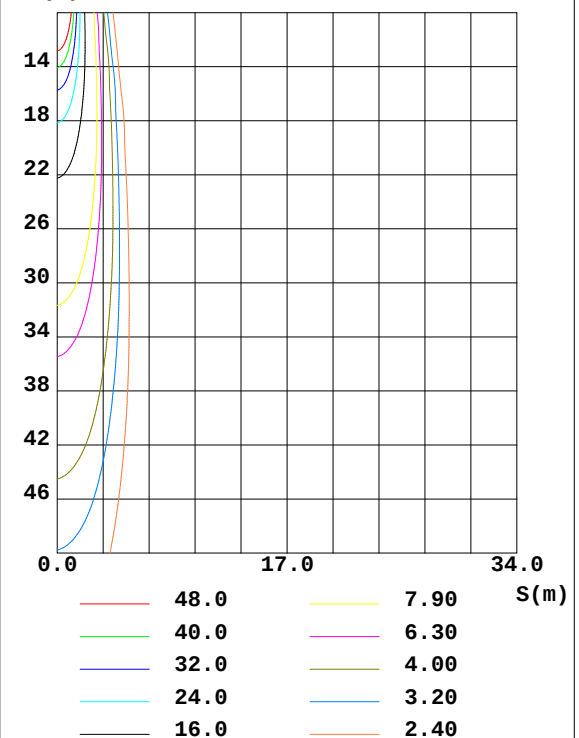
Test:U:24.00V I:0.4844A P:11.62W PF:1.000 Lamp Flux:951.403x1 lm					
NAME:Cobra-310mm-3000K-15D-Rev1			TYPE:3000K		WEIGHT:
DIM.:15 DEG			SPEC.:310MM		SERIAL No.:
MFR.:			SUR.:		PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 81.84 lm/W
MODEL		I _{max} (cd)	8004	S/MH(C0/180)	0.25	
NOMINAL POWER(W)	11.25	LOR(%)	100.0	S/MH(C90/270)	0.22	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	951.40	η UP, DN(C0-180)	1.0, 42.3	
NOMINAL FLUX(lm)	951.403	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.4, 56.3	
LAMPS INSIDE	1	η up(%)	1.4	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	24.0	η down(%)	98.6	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:QIU
 Test Date:2023-02-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:6.826m [K=1.0000]
 Remarks:Cobra-310mm-3000K-15D-Rev1

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2290	2144	1928	2193	2838	3270	3551	3070	0- 10	457.7	457.7	48.1, 48.1
20	411.6	378.4	351.1	352.0	429.8	478.9	530.3	498.9	10- 20	300.4	758.1	79.7, 79.7
30	140.0	130.0	107.3	60.56	75.10	119.1	147.6	155.5	20- 30	106.0	864.1	90.8, 90.8
40	65.93	60.59	15.64	2.715	2.379	3.713	41.98	69.19	30- 40	38.33	902.4	94.8, 94.8
50	37.55	32.04	2.658	0.2769	0.0322	0.8280	4.096	36.40	40- 50	17.02	919.4	96.6, 96.6
60	23.94	17.77	0.9755	0.0160	0.0032	0.0745	1.649	20.53	50- 60	9.522	928.9	97.6, 97.6
70	14.44	8.591	0.2197	0.0097	0	0.0161	0.4345	10.84	60- 70	5.653	934.6	98.2, 98.2
80	4.385	2.561	0.0419	0.0161	0.0065	0.0097	0.0607	3.913	70- 80	2.678	937.3	98.5, 98.5
90	0.7961	0.4220	0.0129	0.0419	0.0258	0.0064	0.0032	0.6236	80- 90	0.6792	937.9	98.6, 98.6
100	0.0354	0.0258	0.0097	0.1130	0.0646	0.0129	0.0097	0.1160	90-100	0.1203	938.1	98.6, 98.6
110	0.0258	0.0258	0.0193	0.2289	0.1549	0.0773	0.0194	0.0291	100-110	0.0606	938.1	98.6, 98.6
120	0.0193	0.0324	0.0547	0.3998	0.2644	0.1833	0.0516	0.0290	110-120	0.0990	938.2	98.6, 98.6
130	0.0674	0.1354	0.2672	0.7425	0.4133	0.3445	0.1164	0.0449	120-130	0.1730	938.4	98.6, 98.6
140	0.5952	0.7722	1.334	1.673	0.8010	0.7476	0.4336	0.2403	130-140	0.3843	938.8	98.7, 98.7
150	3.625	3.817	3.949	4.411	1.982	1.911	1.644	1.433	140-150	1.027	939.8	98.8, 98.8
160	14.25	14.37	13.64	15.30	5.651	5.209	4.760	4.951	150-160	2.472	942.3	99, 99
170	50.80	46.57	43.17	52.35	19.92	17.59	16.39	17.52	160-170	5.321	947.6	99.6, 99.6
180	45.77	44.96	46.99	48.52	45.83	44.95	47.01	48.51	170-180	3.799	951.4	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

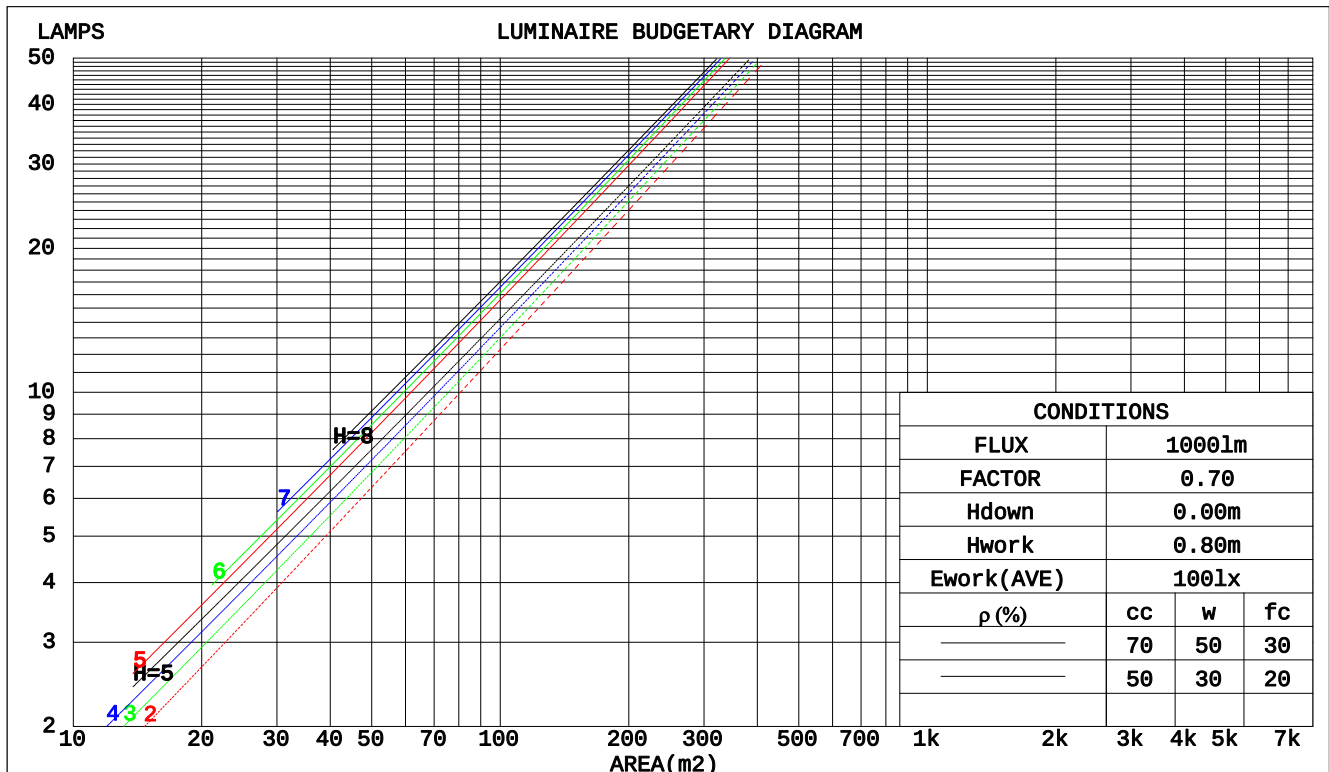
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QIU
 Test Date: 2023-02-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.276
 Humidity: 65.0%
 Test Distance: 6.826m [K=1.0000]
 Remarks: Cobra-310mm-3000K-15D-Rev1

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.4844A P:11.62W PF:1.000 Lamp Flux:951.403x1 lm		
NAME: Cobra-310mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:310MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION 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	1.01	1.01	1.01	.99
1.0	1.13	1.11	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.02	1.01	1.00	.99	.98	.97	.95
2.0	1.07	1.04	1.02	1.06	1.03	1.01	1.02	1.00	.98	.99	.98	.96	.96	.95	.94	.92
3.0	1.03	.99	.97	1.02	.98	.96	.99	.96	.94	.96	.94	.93	.94	.92	.91	.90
4.0	.99	.95	.92	.98	.95	.92	.96	.93	.91	.94	.91	.89	.92	.90	.88	.87
5.0	.96	.92	.89	.95	.91	.89	.93	.90	.88	.92	.89	.87	.90	.88	.86	.85
6.0	.93	.89	.86	.92	.88	.86	.91	.87	.85	.89	.87	.84	.88	.86	.84	.83
7.0	.90	.86	.84	.90	.86	.83	.88	.85	.83	.87	.84	.82	.86	.84	.82	.81
8.0	.88	.84	.81	.87	.84	.81	.86	.83	.81	.85	.83	.80	.85	.82	.80	.79
9.0	.86	.82	.79	.85	.82	.79	.84	.81	.79	.84	.81	.79	.83	.80	.78	.77
10.0	.84	.80	.78	.83	.80	.77	.83	.79	.77	.82	.79	.77	.81	.79	.77	.76



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:6.826m [K=1.0000]
Remarks:Cobra-310mm-3000K-15D-Rev1

WEC AND CCEC

Test:U:24.00V I:0.4844A P:11.62W PF:1.000 Lamp Flux:951.403x1 lm									
NAME: Cobra-310mm-3000K-15D-Rev1					TYPE:3000K			WEIGHT:	
DIM.:15 DEG					SPEC.:310MM			SERIAL No.:	
MFR.:					SUR.:			PROTECTION 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	.136	.077	.025	.129	.074	.023	.116	.066	.021	.104	.060	.019	.093	.054	.017	
2.0	.126	.069	.021	.120	.066	.020	.109	.061	.019	.099	.055	.017	.089	.051	.016	
3.0	.116	.062	.019	.111	.060	.018	.102	.055	.017	.094	.051	.016	.086	.048	.015	
4.0	.108	.056	.017	.104	.054	.016	.096	.051	.015	.089	.048	.014	.082	.045	.014	
5.0	.101	.052	.015	.098	.050	.015	.091	.047	.014	.085	.045	.013	.079	.042	.013	
6.0	.095	.048	.014	.092	.047	.013	.086	.044	.013	.081	.042	.012	.076	.040	.012	
7.0	.090	.044	.013	.087	.043	.012	.082	.041	.012	.077	.040	.012	.073	.038	.011	
8.0	.085	.042	.012	.083	.041	.012	.078	.039	.011	.074	.038	.011	.070	.036	.010	
9.0	.081	.039	.011	.079	.038	.011	.075	.037	.010	.071	.036	.010	.068	.034	.010	
10.0	.077	.037	.010	.075	.036	.010	.072	.035	.010	.068	.034	.010	.065	.033	.009	

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	.201	.201	.201	.172	.172	.172	.117	.117	.117	.067	.067	.067	.022	.022	.022	
1.0	.179	.169	.159	.153	.145	.137	.105	.100	.095	.060	.058	.055	.019	.019	.018	
2.0	.161	.144	.129	.138	.124	.112	.095	.086	.078	.054	.050	.046	.017	.016	.015	
3.0	.146	.124	.107	.125	.107	.093	.086	.074	.065	.050	.043	.038	.016	.014	.013	
4.0	.133	.109	.090	.114	.094	.078	.079	.066	.055	.045	.038	.033	.015	.013	.011	
5.0	.122	.097	.077	.105	.084	.067	.072	.058	.048	.042	.034	.028	.014	.011	.009	
6.0	.113	.086	.067	.097	.075	.059	.067	.052	.041	.039	.031	.025	.013	.010	.008	
7.0	.105	.078	.059	.091	.068	.052	.063	.048	.037	.036	.028	.022	.012	.009	.007	
8.0	.099	.071	.053	.085	.062	.046	.059	.043	.033	.034	.026	.019	.011	.008	.006	
9.0	.093	.066	.047	.080	.057	.041	.055	.040	.029	.032	.024	.018	.010	.008	.006	
10.0	.088	.061	.043	.075	.053	.038	.052	.037	.027	.031	.022	.016	.010	.007	.005	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:6.826m [K=1.0000]
Remarks:Cobra-310mm-3000K-15D-Rev1

Uncorrected UGR Table

Test:U:24.00V I:0.4844A P:11.62W PF:1.000 Lamp Flux:951.403x1 lm											
NAME:Cobra-310mm-3000K-15D-Rev1					TYPE:3000K			WEIGHT:			
DIM.:15 DEG					SPEC.:310MM			SERIAL No.:			
MFR.:					SUR.:			PROTECTION 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		11.3	11.9	11.5	12.1	12.2	6.6	7.2	6.8	7.4	7.6
	3H	12.4	13.0	12.7	13.2	13.4	6.5	7.1	6.7	7.3	7.5
	4H	12.8	13.4	13.1	13.6	13.9	6.4	6.9	6.7	7.2	7.4
	6H	13.0	13.6	13.3	13.8	14.1	6.3	6.8	6.6	7.1	7.3
	8H	13.1	13.6	13.4	13.9	14.1	6.3	6.8	6.6	7.0	7.3
	12H	13.1	13.6	13.4	13.9	14.2	6.2	6.7	6.5	7.0	7.3
4H	2H	11.4	12.0	11.7	12.2	12.4	7.5	8.1	7.8	8.3	8.5
	3H	12.7	13.2	13.1	13.5	13.8	7.5	7.9	7.8	8.2	8.5
	4H	13.2	13.7	13.6	14.0	14.3	7.4	7.8	7.7	8.1	8.5
	6H	13.5	13.9	13.9	14.2	14.6	7.3	7.7	7.7	8.0	8.4
	8H	13.6	13.9	14.0	14.3	14.7	7.2	7.6	7.6	8.0	8.4
	12H	13.6	13.9	14.0	14.3	14.7	7.2	7.5	7.6	7.9	8.3
8H	4H	13.2	13.5	13.6	13.9	14.3	7.8	8.2	8.2	8.6	8.9
	6H	13.5	13.8	13.9	14.2	14.7	7.7	8.0	8.2	8.5	8.9
	8H	13.6	13.9	14.1	14.3	14.8	7.7	8.0	8.1	8.4	8.9
	12H	13.7	13.9	14.2	14.4	14.9	7.6	7.9	8.1	8.3	8.8
12H	4H	13.1	13.4	13.5	13.8	14.3	7.8	8.2	8.3	8.6	9.0
	6H	13.4	13.7	13.9	14.2	14.6	7.8	8.1	8.3	8.5	9.0
	8H	13.6	13.8	14.0	14.3	14.8	7.8	8.0	8.3	8.5	9.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.6					+ 1.8 / - 2.6					
1.5H	+ 0.5 / - 0.4					+ 2.0 / - 2.6					
2.0H	+ 0.9 / - 0.6					+ 2.7 / - 2.8					

CIE Pub.117 Corrected 951.4 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.2)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-17

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:6.826m [K=1.0000]
Remarks:Cobra-310mm-3000K-15D-Rev1

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.4844A P:11.62W PF:1.000 Lamp Flux:951.403x1 lm		
NAME:Cobra-310mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:310MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

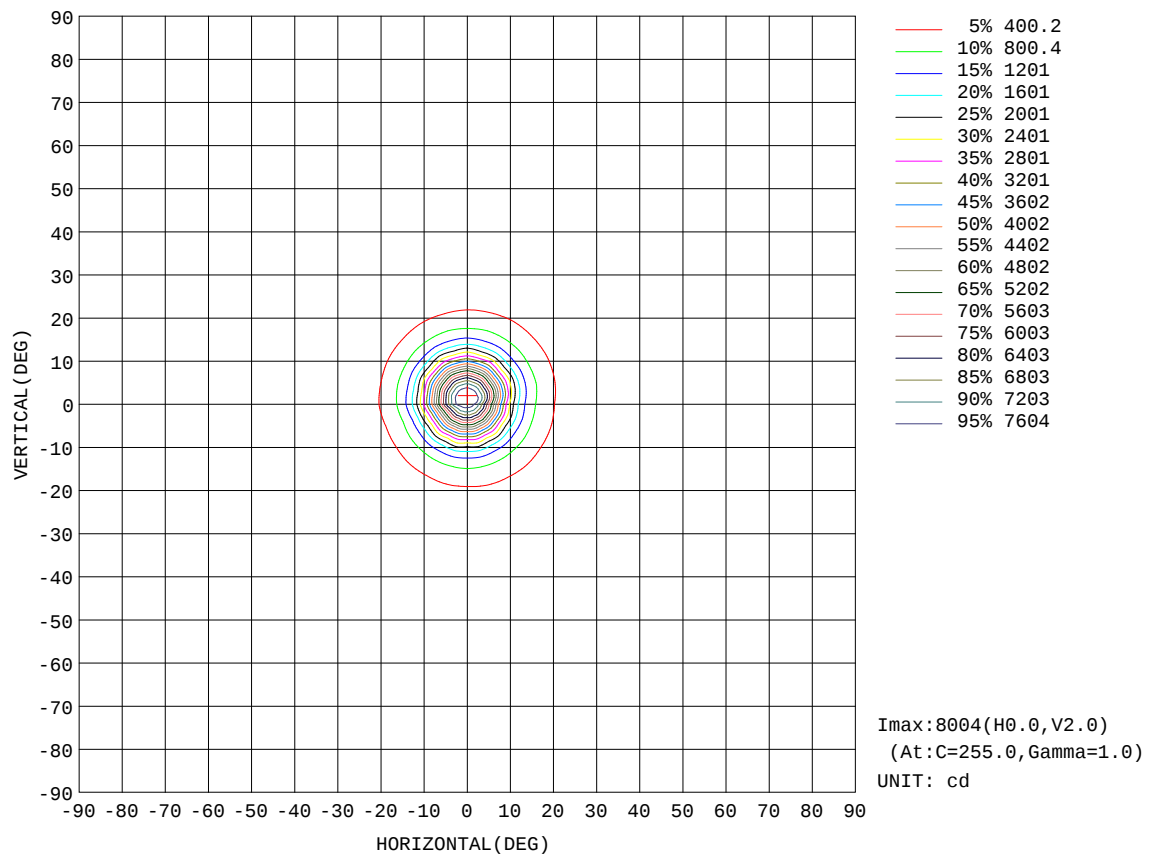
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	79	88	82	79	87	82	78	75
0.80	96	90	86	95	90	86	94	89	86	82
1.00	100	94	91	99	94	90	97	93	90	86
1.25	103	98	95	102	98	95	100	96	94	89
1.50	106	101	98	105	101	98	102	99	96	92
2.00	108	104	101	107	103	100	104	101	99	93
2.50	110	106	104	108	105	103	105	103	100	94
3.00	112	108	106	110	107	104	106	104	102	95
4.00	114	111	109	111	109	107	108	106	104	97
5.00	115	113	111	113	111	109	108	107	106	98
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:QIU
 Test Date:2023-02-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
 Test Distance:6.826m [K=1.0000]
 Remarks:Cobra-310mm-3000K-15D-Rev1

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.4844A P:11.62W PF:1.000 Lamp Flux:951.403x1 lm		
NAME:Cobra-310mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:310MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



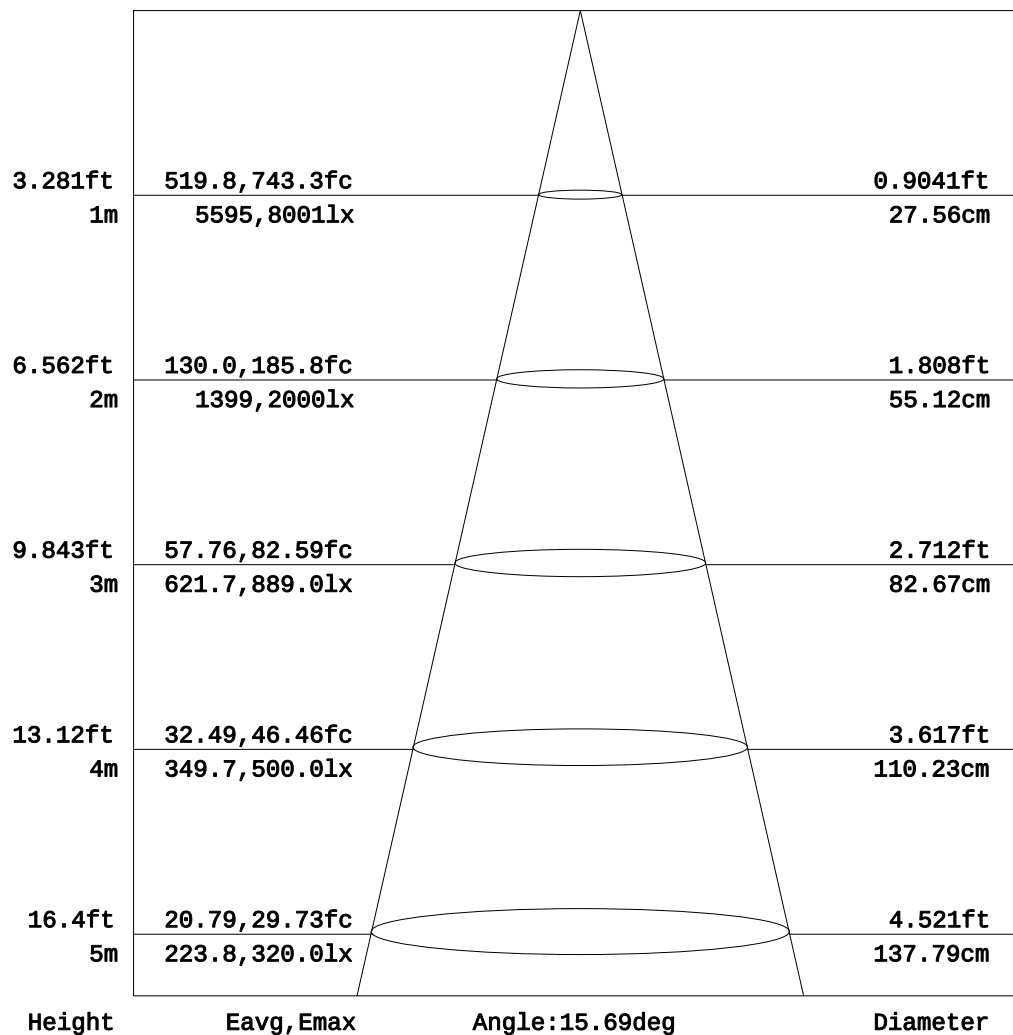
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-17

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:6.826m [K=1.0000]
Remarks:Cobra-310mm-3000K-15D-Rev1

AAI Figure

Test:U:24.00V I:0.4844A P:11.62W PF:1.000 Lamp Flux:951.403x1 lm		
NAME:Cobra-310mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:310MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:347.2 lm



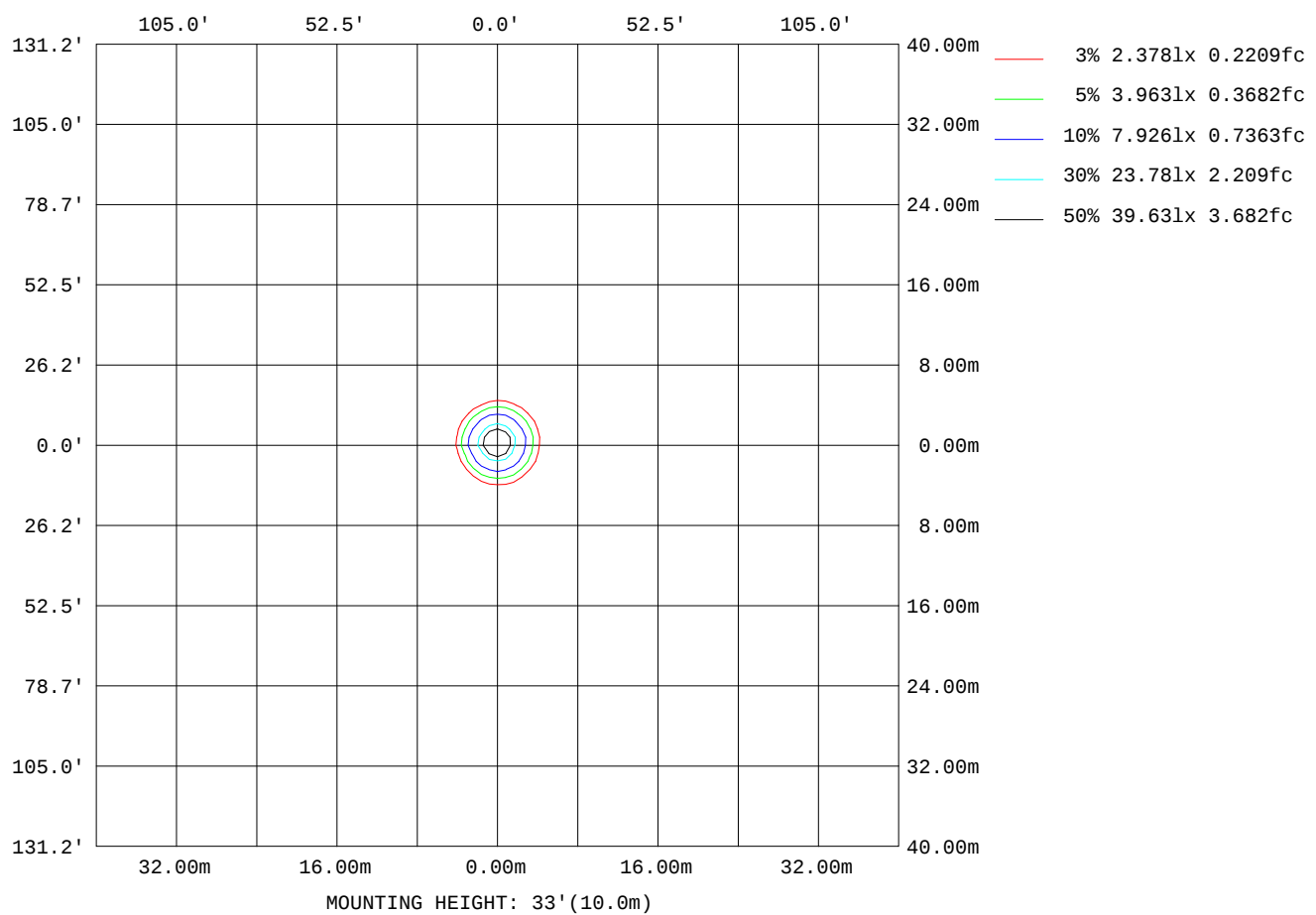
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-17

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:6.826m [K=1.0000]
Remarks:Cobra-310mm-3000K-15D-Rev1

ISOLUX DIAGRAM

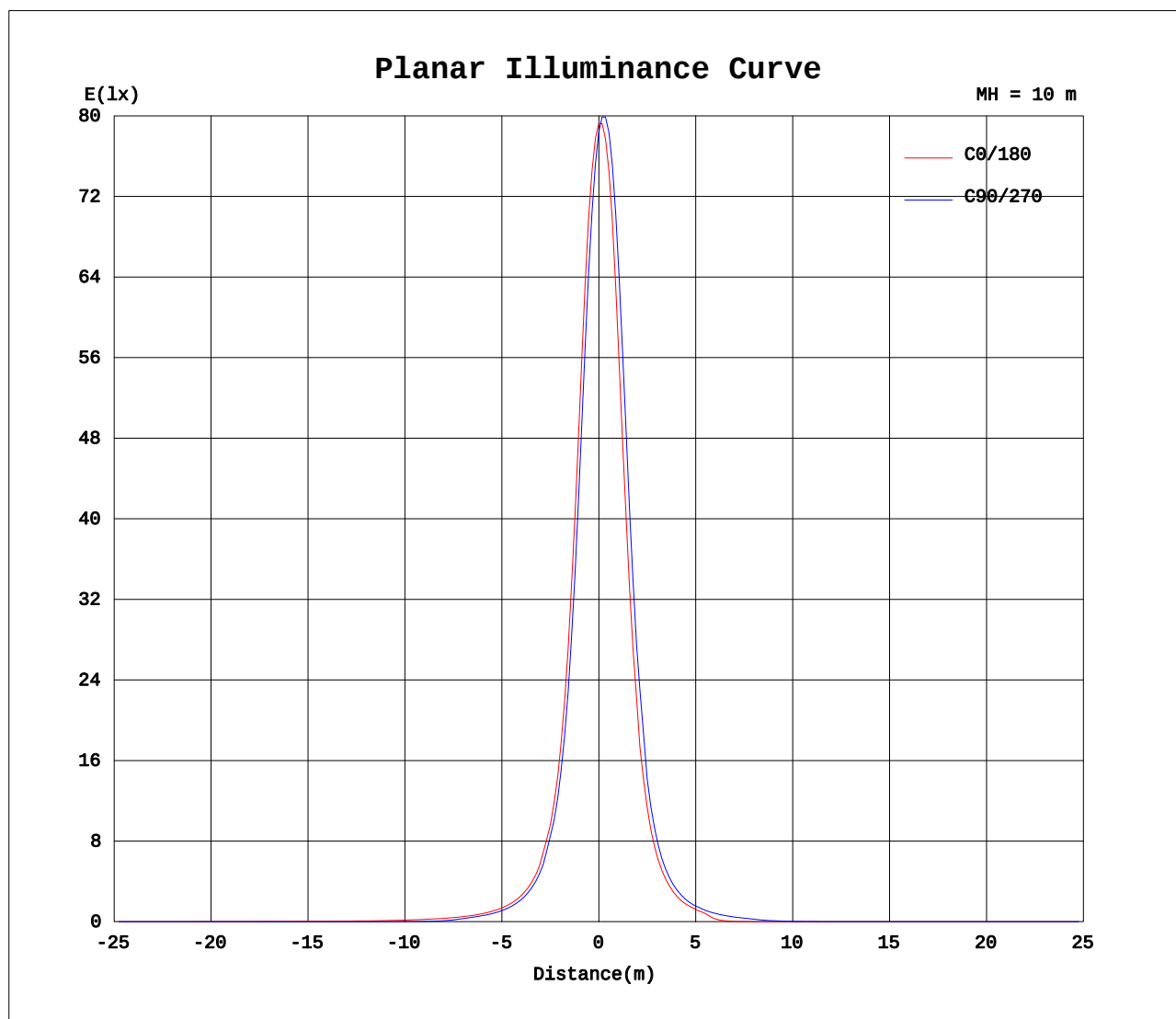
Test:U:24.00V I:0.4844A P:11.62W PF:1.000 Lamp Flux:951.403x1 lm		
NAME:Cobra-310mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:310MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-17

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:6.826m [K=1.0000]
Remarks:Cobra-310mm-3000K-15D-Rev1

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QIU
Test Date: 2023-02-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity: 65.0%
Test Distance: 6.826m [K=1.0000]
Remarks: Cobra-310mm-3000K-15D-Rev1

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.4844A P:11.62W PF:1.000 Lamp Flux:951.403x1 lm		
NAME:Cobra-310mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:310MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(°)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
γ (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	7926	7909	7869	7874	7837	7870	7837	7871	7854	7886	7886	7909	7926	7909	7869	7874	7837	7870	7837
5	5654	5546	5272	5244	5046	5109	4998	5134	5102	5325	5399	5696	6360	6467	6757	6843	7040	7022	7095
10	2290	2278	2063	2144	1954	2079	1928	2087	1981	2193	2130	2412	2838	2916	3186	3270	3488	3465	3551
15	917	866	844	807	790	781	789	775	785	798	834	854	1024	1052	1139	1166	1243	1242	1280
20	412	403	383	378	363	364	351	352	343	352	351	369	430	439	469	479	506	511	530
25	226	222	213	212	201	199	186	187	177	182	176	186	211	210	228	228	243	249	263
30	140	138	133	130	123	116	107	103	83.4	60.6	57.0	48.4	75.1	89.8	106	119	132	138	148
35	93.8	92.1	89.0	86.5	79.8	72.6	58.0	25.5	11.3	6.62	5.03	4.97	6.95	8.06	11.9	17.7	36.1	67.1	87.1
40	65.9	65.3	63.2	60.6	54.4	44.7	15.6	5.05	3.31	2.71	2.31	2.13	2.38	2.58	3.09	3.71	5.61	13.4	42.0
45	48.9	48.4	46.4	43.6	37.6	19.0	4.47	2.77	2.03	1.59	1.16	1.04	1.13	1.29	1.64	2.02	2.69	3.73	11.6
50	37.5	37.0	35.1	32.0	24.8	6.79	2.66	1.76	0.88	0.28	0.17	0.04	0.03	0.10	0.28	0.83	1.67	2.44	4.10
55	29.6	29.1	27.1	23.9	14.5	3.16	1.72	0.78	0.24	0.10	0.05	0.02	0.02	0.05	0.07	0.21	0.50	1.45	2.59
60	23.9	23.3	21.0	17.8	7.39	2.04	0.98	0.21	0.08	0.02	0.01	0.01	0.00	0.03	0.01	0.07	0.14	0.55	1.65
65	19.1	18.5	15.8	12.8	3.74	1.34	0.48	0.05	0.03	0.01	0.01	0.01	0.00	0.01	0.01	0.02	0.03	0.18	0.90
70	14.4	13.9	11.0	8.59	2.03	0.84	0.22	0.00	0.02	0.01	0.01	0.01	0.00	0.02	0.01	0.02	0.01	0.05	0.43
75	8.70	8.39	6.88	5.19	1.19	0.50	0.10	0.00	0.01	0.01	0.01	0.02	0.00	0.01	0.01	0.01	0.01	0.02	0.19
80	4.38	4.13	3.48	2.56	0.73	0.28	0.04	0.00	0.01	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.06
85	1.85	1.64	1.32	0.95	0.45	0.15	0.02	0.01	0.01	0.03	0.02	0.04	0.01	0.01	0.02	0.01	0.01	0.01	0.02
90	0.80	0.69	0.59	0.42	0.20	0.04	0.01	0.01	0.01	0.04	0.02	0.06	0.03	0.01	0.03	0.01	0.02	0.01	0.00
95	0.21	0.20	0.20	0.11	0.02	0.01	0.01	0.02	0.01	0.07	0.07	0.10	0.04	0.02	0.04	0.04	0.01	0.02	0.01
100	0.04	0.02	0.04	0.03	0.03	0.02	0.01	0.03	0.03	0.11	0.11	0.16	0.06	0.04	0.06	0.01	0.02	0.01	0.01
105	0.03	0.02	0.02	0.03	0.02	0.02	0.01	0.04	0.06	0.17	0.17	0.23	0.11	0.08	0.09	0.05	0.04	0.00	0.02
110	0.03	0.02	0.03	0.03	0.02	0.03	0.02	0.06	0.10	0.23	0.24	0.30	0.15	0.13	0.13	0.08	0.05	0.01	0.02
115	0.02	0.02	0.02	0.03	0.02	0.03	0.03	0.09	0.17	0.30	0.32	0.36	0.21	0.18	0.18	0.13	0.09	0.02	0.04
120	0.02	0.02	0.02	0.03	0.02	0.05	0.05	0.15	0.27	0.40	0.41	0.45	0.26	0.24	0.25	0.18	0.13	0.04	0.05
125	0.02	0.04	0.03	0.06	0.05	0.09	0.11	0.26	0.43	0.53	0.54	0.58	0.33	0.31	0.32	0.25	0.20	0.08	0.08
130	0.07	0.10	0.09	0.14	0.13	0.19	0.27	0.49	0.66	0.74	0.75	0.78	0.41	0.39	0.40	0.34	0.31	0.16	0.12
135	0.22	0.25	0.26	0.30	0.35	0.45	0.65	0.90	1.03	1.08	1.09	1.09	0.55	0.53	0.54	0.49	0.46	0.31	0.20
140	0.60	0.63	0.70	0.77	0.92	1.07	1.33	1.52	1.66	1.67	1.69	1.66	0.80	0.79	0.78	0.75	0.72	0.59	0.43
145	1.60	1.64	1.82	1.90	2.08	2.15	2.35	2.49	2.68	2.67	2.69	2.60	1.23	1.22	1.20	1.19	1.17	1.06	0.90
150	3.63	3.70	3.82	3.82	3.86	3.83	3.95	4.18	4.39	4.41	4.39	4.27	1.98	1.96	1.91	1.91	1.88	1.80	1.64
155	6.99	7.15	7.36	7.24	7.19	6.94	7.10	7.42	7.85	7.90	7.88	7.58	3.25	3.17	3.07	3.09	3.01	2.94	2.77
160	14.3	14.5	14.7	14.4	14.1	13.4	13.6	14.2	15.1	15.3	15.4	14.9	5.65	5.41	5.21	5.21	5.05	4.92	4.76
165	29.4	29.6	29.7	28.6	27.4	26.1	26.5	27.6	29.7	30.5	31.2	30.5	10.7	10.2	9.74	9.55	9.13	8.92	8.70
170	50.8	51.1	49.6	46.6	44.0	42.5	43.2	45.6	49.4	52.4	54.6	54.8	19.9	19.2	18.4	17.6	17.0	16.7	16.4
175	58.7	56.9	54.5	52.1	50.4	50.2	51.3	53.6	56.3	59.5	62.1	64.1	30.3	30.8	29.8	29.3	29.2	29.7	29.7
180	45.8	45.9	45.2	45.0	45.3	46.1	47.0	47.7	48.1	48.5	49.5	50.4	45.8	45.9	45.2	45.0	45.3	46.1	47.0

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-17

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:6.826m [K=1.0000]
Remarks:Cobra-310mm-3000K-15D-Rev1

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.4844A P:11.62W PF:1.000 Lamp Flux:951.403x1 lm		
NAME:Cobra-310mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:310MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345													
0	7871	7854	7886	7886	7909													
5	6973	6949	6712	6603	6292													
10	3389	3341	3070	2975	2732													
15	1231	1219	1138	1104	1022													
20	523	525	499	488	460													
25	265	268	260	257	245													
30	153	158	156	154	149													
35	94.4	100	101	101	98.1													
40	60.2	67.0	69.2	70.0	68.5													
45	35.8	46.3	49.6	51.1	50.5													
50	16.1	32.5	36.4	38.5	38.5													
55	6.40	22.2	27.2	29.8	30.2													
60	3.21	13.5	20.5	23.5	24.3													
65	2.03	7.66	15.3	18.2	19.5													
70	1.30	4.03	10.8	13.4	15.0													
75	0.80	2.06	7.03	8.83	9.57													
80	0.48	1.13	3.91	4.79	4.87													
85	0.28	0.63	1.63	2.01	2.04													
90	0.16	0.35	0.62	0.78	0.81													
95	0.05	0.06	0.28	0.33	0.31													
100	0.03	0.04	0.12	0.09	0.05													
105	0.01	0.03	0.05	0.02	0.03													
110	0.01	0.03	0.03	0.02	0.03													
115	0.01	0.03	0.03	0.03	0.03													
120	0.02	0.04	0.03	0.03	0.03													
125	0.03	0.05	0.03	0.04	0.03													
130	0.07	0.08	0.04	0.06	0.03													
135	0.13	0.13	0.09	0.11	0.08													
140	0.32	0.28	0.24	0.25	0.24													
145	0.76	0.67	0.63	0.62	0.64													
150	1.55	1.45	1.43	1.41	1.49													
155	2.74	2.68	2.75	2.75	2.89													
160	4.76	4.78	4.95	5.07	5.33													
165	8.80	8.94	9.37	9.76	10.4													
170	16.5	16.7	17.5	18.3	19.5													
175	29.7	29.6	30.1	30.4	31.3													
180	47.6	48.1	48.5	49.4	50.4													

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QIU
 Test Date:2023-02-17

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
 Humidity:65.0%
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