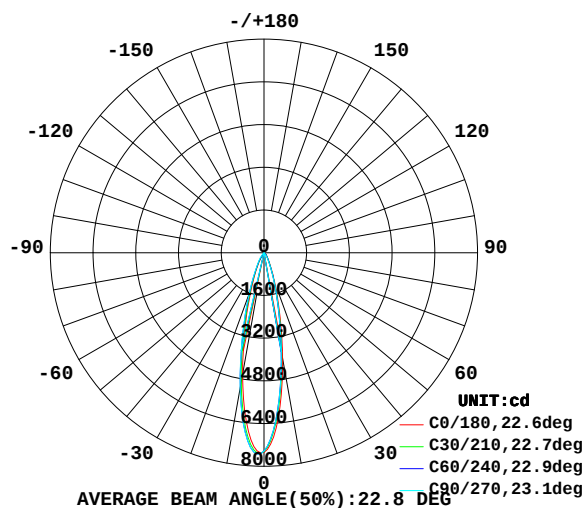


LUMINAIRE PHOTOMETRIC TEST REPORT

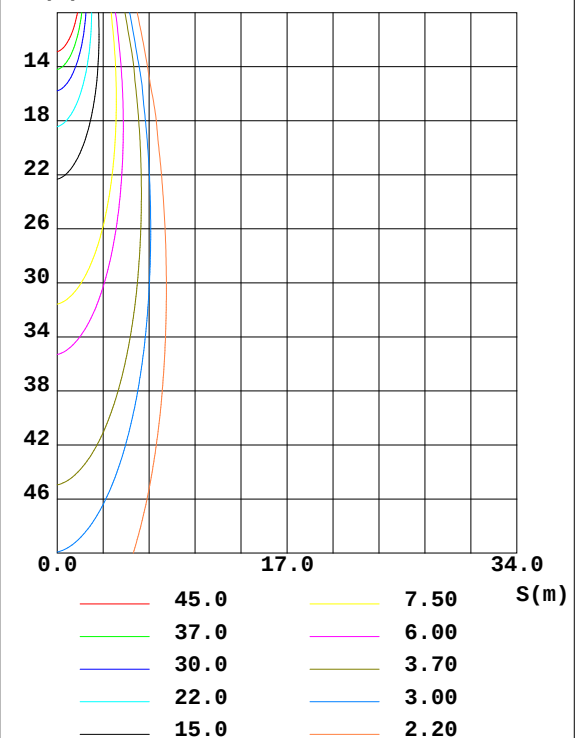
Test:U:24.00V I:0.9709A P:23.30W PF:1.000 Lamp Flux:1788.84x1 lm		
NAME:Cobra-310mm-3000K-20D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20 DEG	SPEC.:310MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.78 lm/W			
MODEL		I _{max} (cd)	7542	S/MH(C0/180)	0.36
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	0.34
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1788.8	η UP, DN(C0-180)	0.9, 44.0
NOMINAL FLUX(lm)	1788.84	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.5, 54.5
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: 2023-02-21

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-20D-Rev1

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	4018	3796	3737	3963	4631	4983	5154	4735	0- 10	548.3	548.3	30.7, 30.7
20	1161	1078	1066	1102	1344	1500	1607	1431	10- 20	689.1	1237	69.2, 69.2
30	365.6	338.5	306.3	246.9	310.6	385.0	446.8	426.9	20- 30	318.9	1556	87, 87
40	169.9	157.1	49.94	10.04	8.440	16.12	116.0	188.6	30- 40	112.5	1669	93.3, 93.3
50	99.78	91.57	7.580	1.274	0.1025	2.009	9.488	105.5	40- 50	46.18	1715	95.9, 95.9
60	62.12	54.65	2.664	0.0900	0.0258	0.1721	3.440	61.92	50- 60	26.43	1741	97.3, 97.3
70	29.96	22.05	0.6571	0.0226	0.0258	0.0387	0.7981	26.50	60- 70	14.57	1756	98.2, 98.2
80	10.56	5.535	0.1419	0.0419	0.0323	0.0290	0.1221	6.917	70- 80	5.896	1762	98.5, 98.5
90	2.156	1.317	0.0259	0.0870	0.0709	0.0290	0.0193	1.471	80- 90	1.613	1763	98.6, 98.6
100	0.1258	0.2636	0.0226	0.2485	0.1709	0.0805	0.0290	0.3706	90-100	0.3905	1764	98.6, 98.6
110	0.0710	0.0836	0.0676	0.5995	0.3941	0.2481	0.0548	0.0774	100-110	0.1747	1764	98.6, 98.6
120	0.0548	0.0938	0.1868	1.141	0.7158	0.5732	0.1259	0.0580	110-120	0.2748	1764	98.6, 98.6
130	0.2704	0.4096	0.7765	2.082	1.134	1.051	0.3257	0.1706	120-130	0.5011	1765	98.7, 98.7
140	1.766	2.177	3.376	4.365	2.107	2.074	1.206	0.7476	130-140	1.072	1766	98.7, 98.7
150	9.953	9.921	9.657	11.14	4.816	4.765	4.148	3.520	140-150	2.662	1769	98.9, 98.9
160	31.58	28.00	26.51	31.98	13.03	12.82	11.73	11.71	150-160	5.836	1774	99.2, 99.2
170	65.18	55.35	56.84	67.81	32.22	33.39	33.71	32.54	160-170	9.076	1783	99.7, 99.7
180	62.55	65.89	72.46	72.60	62.62	65.86	72.49	72.56	170-180	5.375	1789	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

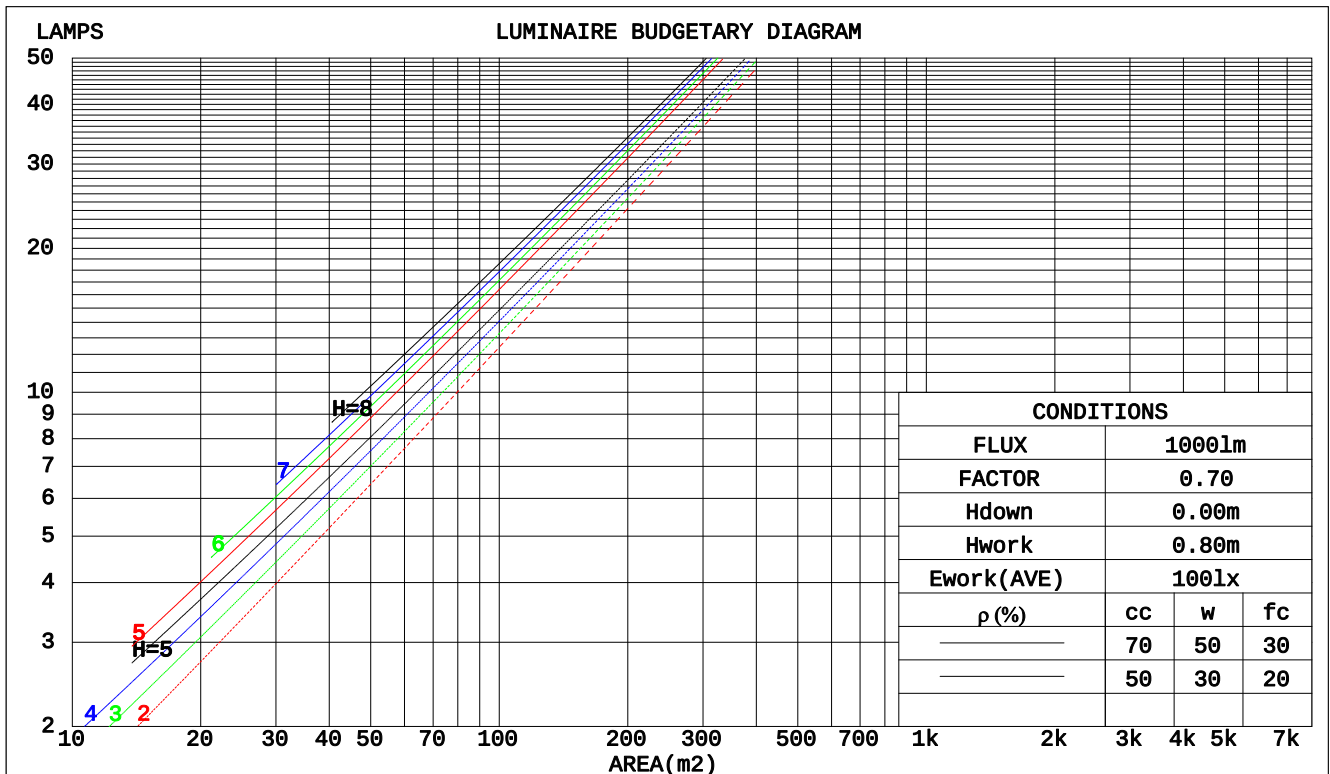
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QIU
 Test Date: 2023-02-21

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-20D-Rev1

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.9709A P:23.30W PF:1.000 Lamp Flux:1788.84x1 lm		
NAME:Cobra-310mm-3000K-20D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20 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															



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-21

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-20D-Rev1

WEC AND CCEC

Test:U:24.00V I:0.9709A P:23.30W PF:1.000 Lamp Flux:1788.84x1 lm								
NAME:Cobra-310mm-3000K-20D-Rev1				TYPE:3000K			WEIGHT:	
DIM.:20 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	.152	.087	.027	.145	.083	.026	.132	.076	.024	.120	.069	.022	.109	.063	.020	
2.0	.142	.078	.024	.137	.075	.023	.125	.070	.022	.115	.065	.020	.106	.060	.019	
3.0	.133	.071	.021	.128	.069	.021	.119	.064	.020	.110	.060	.019	.102	.057	.018	
4.0	.125	.065	.019	.121	.063	.019	.113	.060	.018	.105	.057	.017	.098	.053	.016	
5.0	.118	.060	.017	.114	.059	.017	.107	.056	.016	.101	.053	.016	.095	.051	.015	
6.0	.111	.056	.016	.108	.055	.016	.102	.052	.015	.097	.050	.015	.091	.048	.014	
7.0	.106	.052	.015	.103	.051	.015	.098	.049	.014	.093	.047	.014	.088	.046	.013	
8.0	.101	.049	.014	.098	.048	.014	.093	.047	.013	.089	.045	.013	.085	.044	.013	
9.0	.096	.046	.013	.094	.046	.013	.090	.044	.013	.086	.043	.012	.082	.042	.012	
10.0	.092	.044	.012	.090	.043	.012	.086	.042	.012	.082	.041	.012	.079	.040	.011	

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	.201	.201	.201	.172	.172	.172	.117	.117	.117	.067	.067	.067	.022	.022	.022	
1.0	.180	.168	.158	.154	.145	.136	.106	.099	.094	.061	.058	.055	.019	.019	.018	
2.0	.163	.144	.127	.140	.124	.110	.096	.086	.077	.055	.050	.045	.018	.016	.015	
3.0	.149	.124	.105	.128	.107	.091	.088	.075	.064	.051	.044	.038	.016	.014	.012	
4.0	.137	.109	.088	.118	.094	.076	.081	.066	.054	.047	.039	.032	.015	.013	.010	
5.0	.127	.097	.075	.109	.084	.065	.075	.059	.046	.044	.035	.027	.014	.011	.009	
6.0	.119	.087	.065	.102	.076	.057	.070	.053	.040	.041	.031	.024	.013	.010	.008	
7.0	.111	.079	.057	.096	.069	.050	.066	.048	.035	.038	.028	.021	.012	.009	.007	
8.0	.105	.073	.051	.090	.063	.044	.063	.044	.031	.036	.026	.019	.012	.009	.006	
9.0	.099	.067	.046	.086	.058	.040	.059	.041	.028	.035	.024	.017	.011	.008	.006	
10.0	.095	.063	.041	.082	.054	.036	.057	.038	.026	.033	.023	.015	.011	.007	.005	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-21

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-20D-Rev1

Uncorrected UGR Table

Test:U:24.00V I:0.9709A P:23.30W PF:1.000 Lamp Flux:1788.84x1 lm											
NAME:Cobra-310mm-3000K-20D-Rev1						TYPE:3000K		WEIGHT:			
DIM.:20 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		15.8	16.5	16.0	16.7	16.9	11.6	12.3	11.8	12.5	12.7
	3H	16.6	17.3	16.9	17.5	17.7	11.5	12.1	11.7	12.3	12.6
	4H	16.9	17.5	17.2	17.8	18.0	11.4	12.0	11.7	12.3	12.5
	6H	17.1	17.7	17.4	17.9	18.2	11.3	11.9	11.6	12.2	12.4
	8H	17.1	17.7	17.4	17.9	18.2	11.2	11.8	11.6	12.1	12.4
	12H	17.1	17.7	17.4	17.9	18.2	11.2	11.8	11.5	12.0	12.3
4H	2H	16.0	16.6	16.3	16.9	17.1	12.5	13.2	12.8	13.4	13.7
	3H	16.9	17.5	17.3	17.8	18.1	12.5	13.0	12.8	13.3	13.6
	4H	17.3	17.8	17.6	18.1	18.4	12.4	12.9	12.8	13.2	13.6
	6H	17.5	18.0	17.9	18.3	18.7	12.3	12.8	12.7	13.1	13.5
	8H	17.6	18.0	18.0	18.4	18.8	12.2	12.7	12.7	13.0	13.4
	12H	17.6	18.0	18.0	18.4	18.8	12.2	12.6	12.6	13.0	13.4
8H	4H	17.2	17.6	17.6	18.0	18.4	12.7	13.1	13.1	13.5	13.8
	6H	17.5	17.9	18.0	18.3	18.7	12.6	12.9	13.0	13.3	13.8
	8H	17.6	17.9	18.1	18.4	18.8	12.5	12.8	13.0	13.3	13.7
	12H	17.7	17.9	18.2	18.4	18.9	12.5	12.7	13.0	13.2	13.7
12H	4H	17.1	17.5	17.6	17.9	18.3	12.7	13.1	13.1	13.5	13.9
	6H	17.5	17.8	17.9	18.2	18.7	12.6	12.9	13.1	13.4	13.8
	8H	17.6	17.8	18.1	18.3	18.8	12.6	12.8	13.1	13.3	13.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.6					+ 1.8 / - 2.6					
1.5H	+ 0.5 / - 0.4					+ 1.8 / - 2.8					
2.0H	+ 0.7 / - 0.6					+ 3.0 / - 2.9					

CIE Pub.117 Corrected 1789 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.0)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-21

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-20D-Rev1

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.9709A P:23.30W PF:1.000 Lamp Flux:1788.84x1 lm		
NAME:Cobra-310mm-3000K-20D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20 DEG	SPEC.:310MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

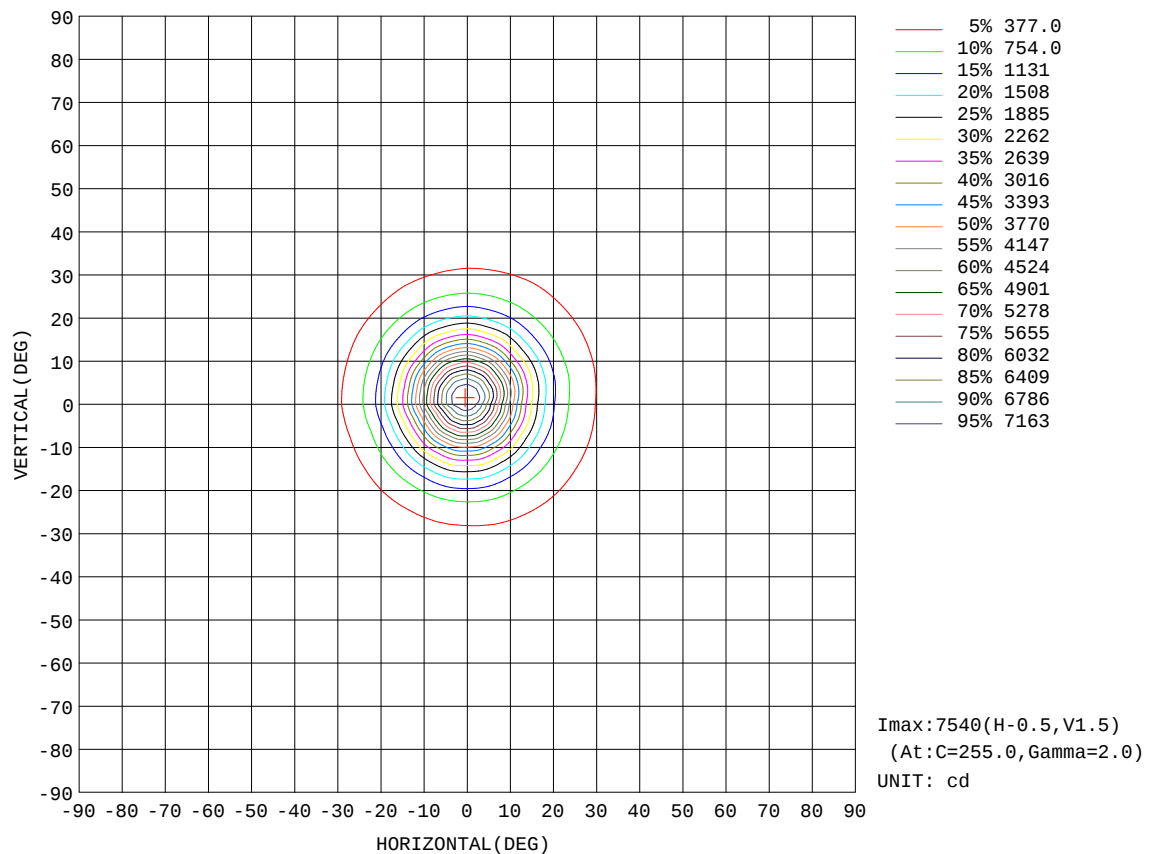
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	81	77	74
0.80	95	89	85	94	89	85	93	88	85	81
1.00	99	93	90	98	93	89	96	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	104	100	97	102	98	96	91
2.00	108	104	101	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	109	106	104	106	104	102	95
4.00	113	111	108	111	109	107	107	106	104	97
5.00	115	112	111	112	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:2023-02-21

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-20D-Rev1

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.9709A P:23.30W PF:1.000 Lamp Flux:1788.84x1 lm		
NAME:Cobra-310mm-3000K-20D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20 DEG	SPEC.:310MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



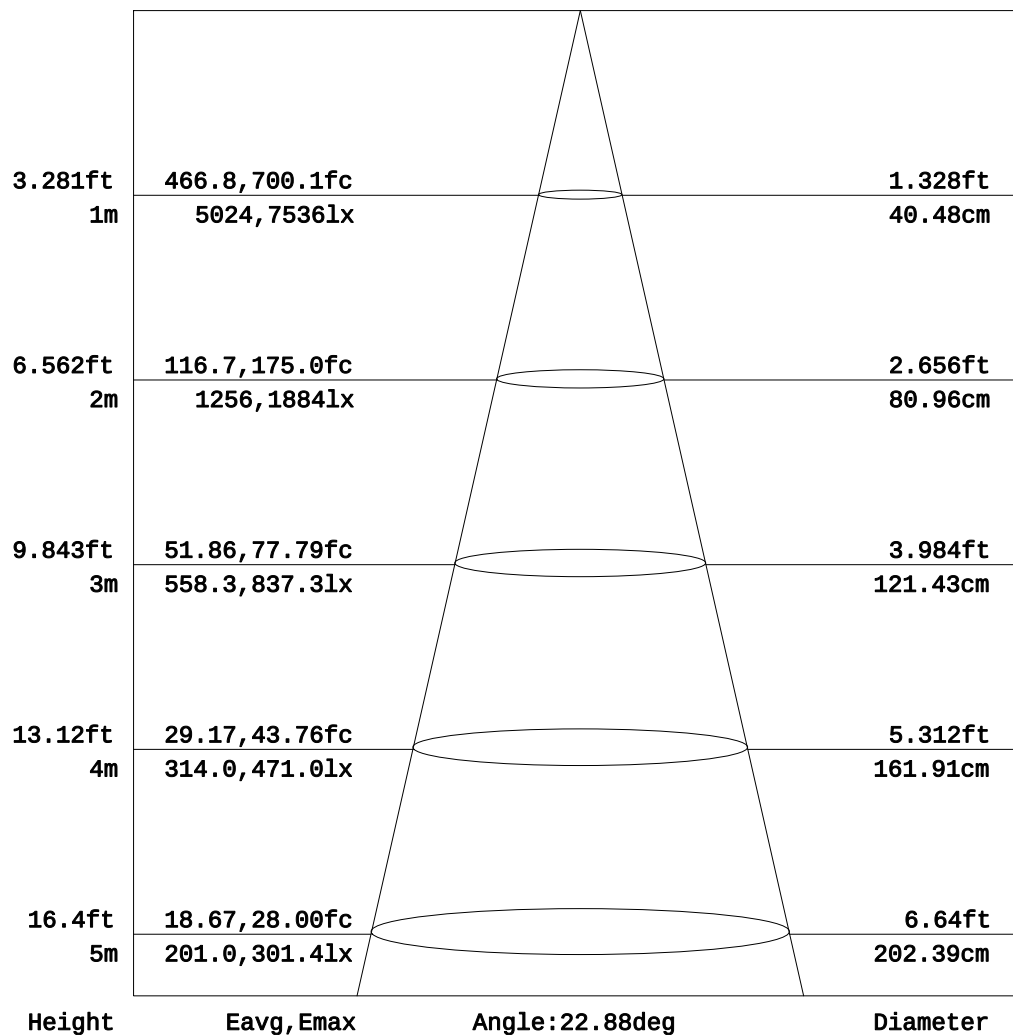
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QIU
Test Date: 2023-02-21

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-20D-Rev1

AAI Figure

Test:U:24.00V I:0.9709A P:23.30W PF:1.000 Lamp Flux:1788.84x1 lm		
NAME:Cobra-310mm-3000K-20D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20 DEG	SPEC.:310MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:713.2 lm



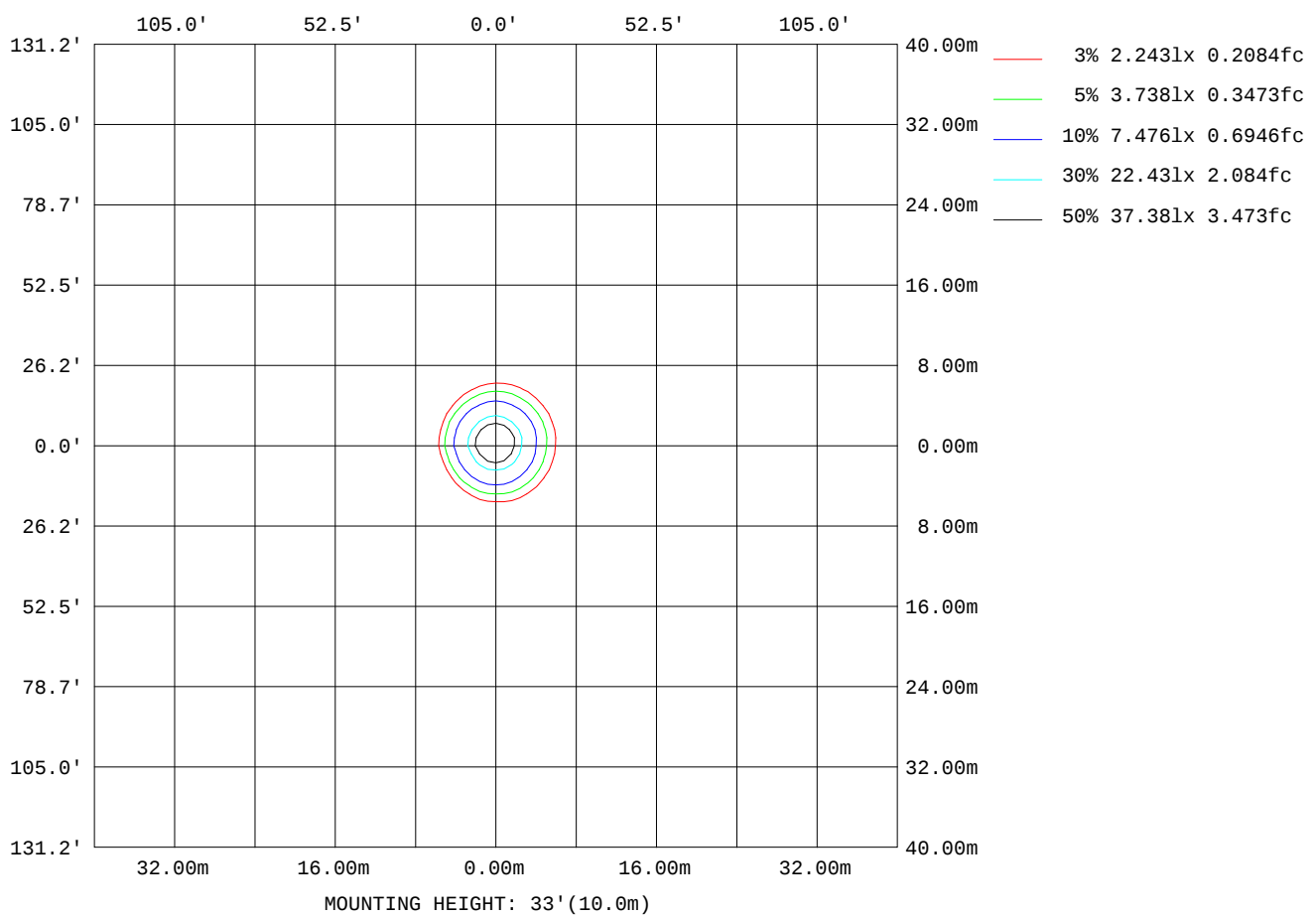
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QIU
Test Date: 2023-02-21

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-20D-Rev1

ISOLUX DIAGRAM

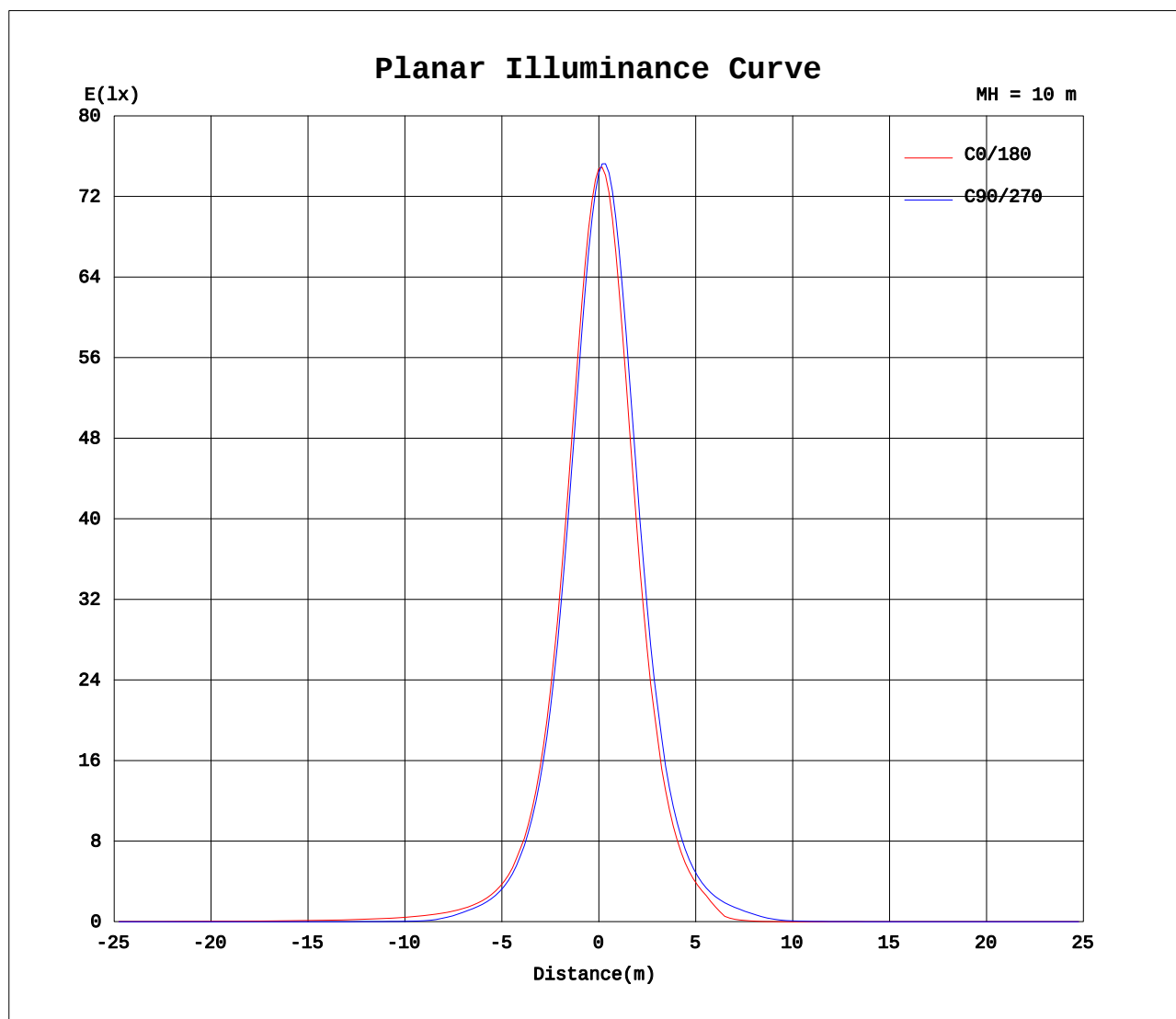
Test:U:24.00V I:0.9709A P:23.30W PF:1.000 Lamp Flux:1788.84x1 lm		
NAME:Cobra-310mm-3000K-20D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20 DEG	SPEC.:310MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-21

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-20D-Rev1

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QIU
Test Date: 2023-02-21

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-20D-Rev1

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.9709A P:23.30W PF:1.000 Lamp Flux:1788.84x1 lm		
NAME:Cobra-310mm-3000K-20D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20 DEG	SPEC.:310MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	7476	7472	7447	7454	7429	7448	7429	7450	7439	7458	7453	7465	7476	7472	7447	7454	7429	7448	7429
5	6202	6138	6000	5991	5904	5954	5918	6007	6015	6150	6191	6351	6723	6790	6931	6970	7062	7049	7069
10	4018	3943	3797	3796	3714	3772	3737	3831	3829	3963	4002	4178	4631	4710	4919	4983	5138	5111	5154
15	2218	2199	2068	2103	2029	2096	2041	2128	2090	2198	2188	2332	2617	2672	2829	2881	3014	3006	3044
20	1161	1131	1079	1078	1056	1079	1066	1083	1066	1102	1111	1169	1344	1378	1466	1500	1579	1580	1607
25	622	606	578	575	563	570	551	551	539	553	556	583	671	688	730	765	793	821	829
30	366	357	343	338	328	322	306	299	272	247	216	241	311	327	365	385	415	426	447
35	239	235	226	222	211	203	171	100	48.5	39.5	35.5	37.0	47.2	50.0	59.6	87.1	129	212	262
40	170	167	161	157	147	127	49.9	19.8	13.6	10.0	7.24	6.48	8.44	9.22	12.6	16.1	22.8	36.9	116
45	127	125	122	118	107	57.1	14.2	8.51	5.54	4.24	3.22	2.66	2.61	2.82	3.49	4.37	6.72	11.1	24.8
50	99.8	97.9	95.0	91.6	73.5	20.2	7.58	4.82	3.01	1.27	0.60	0.24	0.10	0.25	0.89	2.01	3.55	5.36	9.49
55	79.7	78.4	75.8	72.5	44.5	9.67	4.67	2.40	0.89	0.43	0.17	0.04	0.06	0.09	0.21	0.55	1.19	3.05	5.72
60	62.1	61.3	58.7	54.6	24.7	5.87	2.66	0.92	0.29	0.09	0.05	0.03	0.03	0.05	0.04	0.17	0.43	1.20	3.44
65	45.0	44.5	42.0	37.1	13.2	3.66	1.32	0.28	0.09	0.02	0.03	0.03	0.03	0.04	0.03	0.06	0.12	0.43	1.79
70	30.0	29.4	26.9	22.1	6.96	2.20	0.66	0.07	0.04	0.02	0.03	0.03	0.03	0.04	0.03	0.04	0.03	0.14	0.80
75	18.5	17.9	15.6	11.6	3.81	1.32	0.31	0.03	0.03	0.03	0.03	0.04	0.03	0.03	0.03	0.03	0.02	0.06	0.33
80	10.6	10.1	8.40	5.54	2.10	0.82	0.14	0.03	0.03	0.04	0.03	0.05	0.03	0.03	0.03	0.03	0.02	0.04	0.12
85	4.37	4.07	3.67	2.51	1.20	0.48	0.05	0.03	0.03	0.05	0.05	0.08	0.05	0.03	0.03	0.03	0.03	0.03	0.04
90	2.16	1.98	1.72	1.32	0.59	0.14	0.03	0.04	0.03	0.09	0.09	0.14	0.07	0.06	0.06	0.03	0.03	0.03	0.02
95	1.02	0.94	0.75	0.62	0.12	0.03	0.02	0.05	0.07	0.14	0.17	0.22	0.11	0.09	0.09	0.04	0.05	0.03	0.02
100	0.13	0.10	0.26	0.26	0.07	0.03	0.02	0.06	0.09	0.25	0.29	0.35	0.17	0.15	0.15	0.08	0.06	0.03	0.03
105	0.09	0.07	0.15	0.17	0.05	0.04	0.03	0.09	0.17	0.40	0.47	0.51	0.27	0.25	0.22	0.15	0.10	0.03	0.04
110	0.07	0.05	0.09	0.08	0.04	0.05	0.07	0.13	0.28	0.60	0.69	0.73	0.39	0.38	0.34	0.25	0.15	0.05	0.05
115	0.06	0.05	0.06	0.07	0.04	0.09	0.10	0.21	0.47	0.85	0.93	0.97	0.55	0.53	0.49	0.39	0.24	0.10	0.08
120	0.05	0.07	0.06	0.09	0.09	0.16	0.19	0.35	0.77	1.14	1.22	1.24	0.72	0.68	0.67	0.57	0.37	0.16	0.13
125	0.11	0.14	0.14	0.19	0.21	0.29	0.37	0.66	1.23	1.53	1.59	1.59	0.90	0.90	0.88	0.79	0.57	0.28	0.20
130	0.27	0.32	0.34	0.41	0.47	0.57	0.78	1.29	1.90	2.08	2.14	2.10	1.13	1.15	1.13	1.05	0.86	0.51	0.33
135	0.70	0.74	0.83	0.91	1.05	1.21	1.71	2.38	2.87	2.94	3.01	2.91	1.49	1.53	1.51	1.44	1.29	0.95	0.60
140	1.77	1.84	2.01	2.18	2.46	2.75	3.38	3.94	4.32	4.36	4.39	4.26	2.11	2.15	2.11	2.07	1.96	1.70	1.21
145	4.60	4.72	5.16	5.23	5.38	5.38	5.81	6.25	6.79	6.76	6.79	6.52	3.08	3.16	3.10	3.10	2.99	2.83	2.34
150	9.95	10.2	10.4	9.92	9.63	9.27	9.66	10.2	11.0	11.1	11.1	10.7	4.82	4.83	4.80	4.76	4.69	4.51	4.15
155	18.1	18.5	18.3	17.1	16.4	15.7	16.2	17.1	18.5	19.0	19.1	18.3	7.82	7.71	7.67	7.71	7.52	7.37	6.95
160	31.6	31.6	30.2	28.0	26.6	25.6	26.5	28.1	30.6	32.0	32.7	31.7	13.0	12.6	12.5	12.8	12.4	12.3	11.7
165	50.1	48.1	45.5	42.0	40.0	39.1	40.6	43.5	47.4	49.9	51.7	51.2	21.4	20.5	20.6	21.2	20.6	20.6	19.9
170	65.2	62.1	58.7	55.4	54.1	54.5	56.8	60.3	64.7	67.8	70.4	70.7	32.2	31.5	32.4	33.4	33.6	34.1	33.7
175	70.5	66.3	64.5	64.6	66.3	68.4	70.6	73.0	75.5	76.8	78.5	79.2	45.6	45.7	47.1	49.8	51.8	53.6	54.0
180	62.6	61.7	62.4	65.9	69.1	71.2	72.5	73.1	73.1	72.6	72.6	71.8	62.6	61.7	62.4	65.9	69.1	71.2	72.5

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-21

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-20D-Rev1

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.9709A P:23.30W PF:1.000 Lamp Flux:1788.84x1 lm					
NAME:Cobra-310mm-3000K-20D-Rev1			TYPE:3000K		WEIGHT:
DIM.:20 DEG			SPEC.:310MM		SERIAL No.:
MFR.:			SUR.:		PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345														
0	7450	7439	7458	7453	7465														
5	6982	6936	6778	6697	6521														
10	5014	4953	4735	4627	4401														
15	2935	2888	2717	2642	2479														
20	1549	1525	1431	1385	1297														
25	825	796	765	729	687														
30	446	446	427	417	396														
35	270	278	272	267	256														
40	175	189	189	188	180														
45	96.0	134	138	139	134														
50	33.8	94.2	106	107	104														
55	12.1	59.3	81.9	84.3	82.6														
60	6.48	32.6	61.9	65.5	64.7														
65	4.14	16.7	43.2	47.9	47.6														
70	2.56	8.47	26.5	31.7	32.0														
75	1.51	4.41	14.3	18.9	19.7														
80	0.92	2.45	6.92	10.3	11.4														
85	0.55	1.37	3.13	4.76	4.81														
90	0.32	0.79	1.47	2.13	2.18														
95	0.06	0.21	0.91	1.31	1.28														
100	0.04	0.07	0.37	0.52	0.26														
105	0.03	0.05	0.13	0.20	0.12														
110	0.03	0.05	0.08	0.07	0.09														
115	0.04	0.05	0.05	0.06	0.07														
120	0.07	0.07	0.06	0.07	0.06														
125	0.12	0.12	0.08	0.10	0.07														
130	0.23	0.21	0.17	0.17	0.14														
135	0.44	0.39	0.34	0.34	0.32														
140	0.93	0.80	0.75	0.72	0.74														
145	1.98	1.71	1.67	1.62	1.73														
150	3.82	3.53	3.52	3.60	3.88														
155	6.71	6.50	6.70	6.95	7.48														
160	11.5	11.3	11.7	12.2	13.2														
165	19.6	19.2	19.7	20.4	21.9														
170	33.1	32.4	32.5	32.7	33.8														
175	53.7	52.8	52.3	51.6	50.5														
180	73.1	73.1	72.6	72.6	71.8														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QIU
 Test Date:2023-02-21

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-20D-Rev1