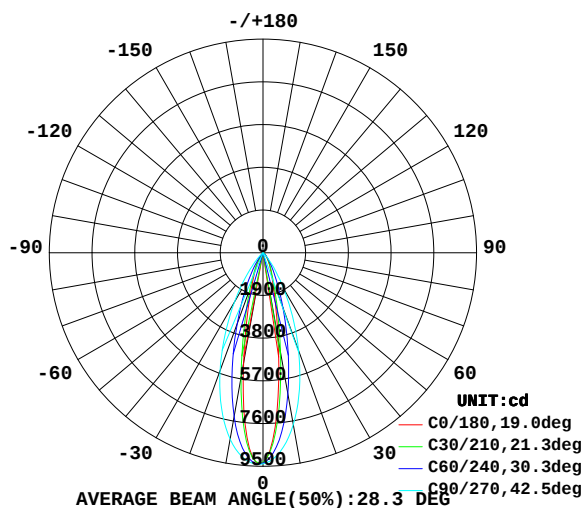


LUMINAIRE PHOTOMETRIC TEST REPORT

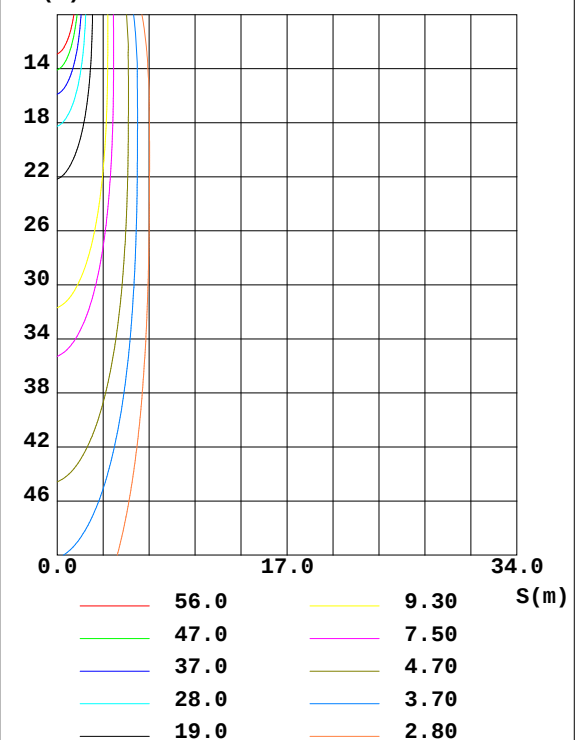
Test:U:24.00V I:1.900A P:45.60W PF:1.000 Lamp Flux:3102.51x1 lm		
NAME:Cobra-1200mm-3000K-2040D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x40 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.04 lm/W			
MODEL		I _{max} (cd)	9410	S/MH(C0/180)	0.30
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	0.64
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	3102.5	η UP, DN(C0-180)	0.9, 45.9
NOMINAL FLUX(lm)	3102.51	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.5, 52.7
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: 2023-02-23

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-1200mm-3000K-2040D-Rev1

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3876	5386	7764	5877	4995	6370	8422	5925	0- 10	721.0	721.0	23.2, 23.2
20	1187	1760	4636	1903	1352	2189	5586	2047	10- 20	1112	1833	59.1, 59.1
30	538.2	664.1	1833	442.8	343.1	620.2	2561	783.8	20- 30	738.3	2572	82.9, 82.9
40	260.8	302.0	379.7	30.45	14.42	38.52	655.8	354.5	30- 40	306.8	2878	92.8, 92.8
50	148.2	148.2	40.44	2.428	0.3129	4.111	72.72	175.7	40- 50	103.6	2982	96.1, 96.1
60	91.54	63.40	7.715	0.1798	0.0419	0.2923	11.03	78.05	50- 60	42.15	3024	97.5, 97.5
70	47.43	26.71	1.527	0.0322	0.0419	0.0516	2.043	30.97	60- 70	20.68	3045	98.1, 98.1
80	19.88	12.30	0.3095	0.0548	0.0547	0.0387	0.3668	13.60	70- 80	9.678	3055	98.5, 98.5
90	2.684	2.601	0.0516	0.1709	0.1160	0.0579	0.0450	4.333	80- 90	3.843	3058	98.6, 98.6
100	0.1482	0.0645	0.0709	0.3618	0.2970	0.1803	0.0677	0.1099	90-100	0.3854	3059	98.6, 98.6
110	0.0935	0.0709	0.2506	0.7575	0.6221	0.3768	0.1582	0.0742	100-110	0.2471	3059	98.6, 98.6
120	0.0612	0.2099	0.7936	1.716	1.113	0.8528	0.4203	0.1192	110-120	0.4625	3060	98.6, 98.6
130	0.3407	0.8832	3.003	3.794	1.773	1.984	1.169	0.4366	120-130	0.9904	3061	98.6, 98.6
140	2.104	3.864	11.36	8.348	3.168	4.466	4.163	1.591	130-140	2.351	3063	98.7, 98.7
150	12.15	14.49	31.19	19.78	6.857	10.24	15.39	5.580	140-150	5.593	3068	98.9, 98.9
160	35.78	37.69	63.70	49.88	15.84	25.65	42.73	19.60	150-160	10.85	3079	99.3, 99.3
170	88.88	77.76	96.99	98.96	41.10	60.38	80.90	57.22	160-170	14.87	3094	99.7, 99.7
180	87.74	101.2	109.6	109.6	87.71	101.4	109.4	109.7	170-180	8.293	3103	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

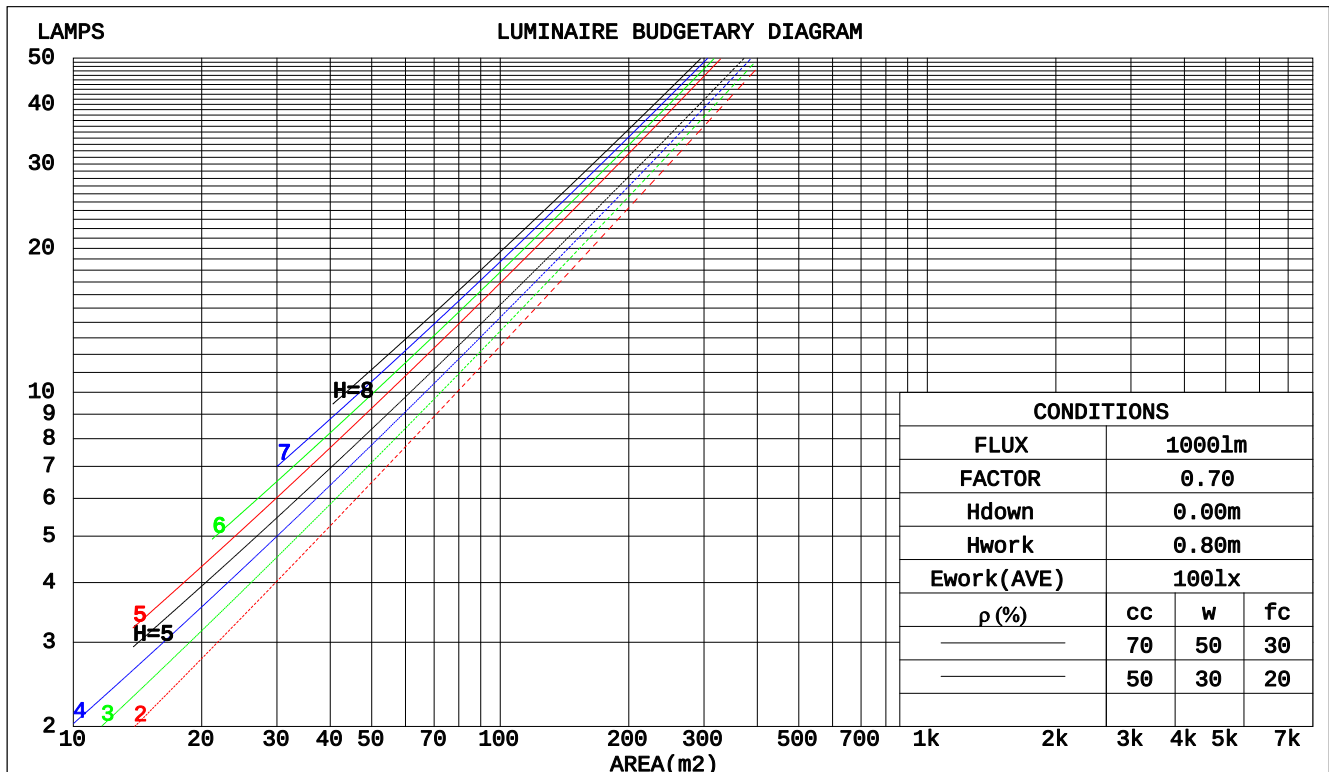
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QIU
 Test Date: 2023-02-23

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-1200mm-3000K-2040D-Rev1

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:1.900A P:45.60W PF:1.000 Lamp Flux:3102.51x1 lm		
NAME:Cobra-1200mm-3000K-2040D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x40 DEG	SPEC.:1200MM	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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.99	.98	.97	.96	.95	.93
2.0	1.05	1.01	.98	1.03	.99	.97	.99	.97	.95	.96	.94	.92	.93	.92	.90	.89
3.0	.99	.94	.91	.97	.93	.90	.95	.91	.89	.92	.89	.87	.90	.87	.86	.84
4.0	.94	.89	.85	.92	.88	.85	.90	.86	.83	.88	.85	.82	.86	.83	.81	.80
5.0	.89	.84	.80	.88	.83	.80	.86	.82	.79	.84	.81	.78	.83	.80	.77	.76
6.0	.85	.80	.76	.84	.79	.76	.82	.78	.75	.81	.77	.75	.80	.76	.74	.73
7.0	.81	.76	.72	.80	.76	.72	.79	.75	.72	.78	.74	.71	.77	.73	.71	.69
8.0	.78	.72	.69	.77	.72	.69	.76	.72	.68	.75	.71	.68	.74	.70	.68	.67
9.0	.74	.69	.66	.74	.69	.66	.73	.69	.66	.72	.68	.65	.71	.68	.65	.64
10.0	.72	.67	.63	.71	.66	.63	.70	.66	.63	.69	.66	.63	.69	.65	.63	.61



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QIU
Test Date: 2023-02-23

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-1200mm-3000K-2040D-Rev1

WEC AND CCEC

Test:U:24.00V I:1.900A P:45.60W PF:1.000 Lamp Flux:3102.51x1 lm									
NAME:Cobra-1200mm-3000K-2040D-Rev1					TYPE:3000K			WEIGHT:	
DIM.:20x40 DEG					SPEC.:1200MM			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	.162	.092	.029	.155	.088	.028	.141	.081	.026	.129	.074	.024	.118	.068	.022	
2.0	.152	.083	.026	.146	.081	.025	.135	.075	.023	.125	.070	.022	.115	.065	.021	
3.0	.143	.076	.023	.138	.074	.022	.129	.070	.021	.120	.066	.020	.112	.062	.019	
4.0	.135	.070	.021	.131	.068	.020	.123	.065	.019	.115	.062	.019	.108	.059	.018	
5.0	.128	.065	.019	.124	.064	.019	.117	.061	.018	.110	.058	.017	.104	.056	.017	
6.0	.121	.061	.017	.118	.060	.017	.112	.057	.017	.106	.055	.016	.101	.053	.016	
7.0	.115	.057	.016	.113	.056	.016	.107	.054	.016	.102	.052	.015	.097	.050	.015	
8.0	.110	.054	.015	.107	.053	.015	.103	.051	.015	.098	.050	.014	.094	.048	.014	
9.0	.105	.051	.014	.103	.050	.014	.099	.049	.014	.094	.047	.014	.090	.046	.013	
10.0	.101	.048	.013	.099	.048	.013	.095	.046	.013	.091	.045	.013	.087	.044	.013	

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	.181	.168	.157	.155	.144	.135	.106	.099	.093	.061	.058	.054	.020	.019	.018	
2.0	.165	.144	.126	.141	.124	.109	.097	.085	.076	.056	.050	.044	.018	.016	.014	
3.0	.151	.124	.103	.130	.107	.090	.089	.075	.063	.051	.044	.037	.017	.014	.012	
4.0	.140	.110	.086	.120	.095	.075	.083	.066	.053	.048	.039	.031	.015	.013	.010	
5.0	.130	.098	.074	.112	.084	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
6.0	.122	.088	.064	.105	.076	.055	.072	.053	.039	.042	.031	.023	.014	.010	.008	
7.0	.115	.080	.056	.099	.070	.049	.068	.049	.034	.040	.029	.020	.013	.009	.007	
8.0	.109	.074	.050	.094	.064	.043	.065	.045	.031	.038	.026	.018	.012	.009	.006	
9.0	.104	.068	.045	.089	.059	.039	.062	.042	.028	.036	.025	.016	.012	.008	.005	
10.0	.099	.064	.040	.085	.055	.035	.059	.039	.025	.034	.023	.015	.011	.008	.005	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-23

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-1200mm-3000K-2040D-Rev1

Uncorrected UGR Table

Test:U:24.00V I:1.900A P:45.60W PF:1.000 Lamp Flux:3102.51x1 lm											
NAME:Cobra-1200mm-3000K-2040D-Rev1					TYPE:3000K			WEIGHT:			
DIM.:20x40 DEG					SPEC.:1200MM			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	12.0	12.8	12.2	12.9	13.1	12.3	13.1	12.6	13.3	13.5	
	3H	12.8	13.5	13.0	13.7	13.9	12.2	12.9	12.5	13.2	13.4
	4H	13.0	13.7	13.3	14.0	14.2	12.1	12.8	12.4	13.1	13.3
	6H	13.3	13.9	13.6	14.2	14.5	12.0	12.7	12.3	13.0	13.2
	8H	13.4	14.0	13.7	14.3	14.6	12.0	12.6	12.3	12.9	13.2
	12H	13.5	14.1	13.8	14.4	14.7	11.9	12.5	12.3	12.8	13.1
4H	2H	12.0	12.7	12.3	12.9	13.2	12.3	13.0	12.6	13.3	13.5
	3H	12.9	13.5	13.2	13.8	14.1	12.2	12.8	12.6	13.1	13.4
	4H	13.3	13.8	13.7	14.2	14.5	12.2	12.7	12.5	13.0	13.4
	6H	13.6	14.1	14.0	14.5	14.8	12.1	12.6	12.5	12.9	13.3
	8H	13.8	14.2	14.2	14.6	15.0	12.0	12.5	12.4	12.9	13.3
	12H	13.9	14.3	14.3	14.7	15.1	12.0	12.4	12.4	12.8	13.2
8H	4H	13.2	13.7	13.6	14.1	14.5	12.2	12.6	12.6	13.0	13.4
	6H	13.7	14.0	14.1	14.4	14.9	12.1	12.5	12.6	12.9	13.4
	8H	13.9	14.2	14.3	14.6	15.1	12.1	12.4	12.6	12.9	13.4
	12H	14.1	14.4	14.6	14.8	15.3	12.1	12.4	12.6	12.8	13.3
12H	4H	13.2	13.6	13.6	14.0	14.4	12.1	12.6	12.6	13.0	13.4
	6H	13.6	14.0	14.1	14.4	14.9	12.1	12.5	12.6	12.9	13.4
	8H	13.9	14.2	14.4	14.6	15.1	12.2	12.4	12.6	12.9	13.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.7					+ 3.3 / - 5.3					
1.5H	+ 0.5 / - 0.5					+ 5.1 / - 5.1					
2.0H	+ 1.0 / - 0.9					+ 3.2 / - 3.1					

CIE Pub.117 Corrected 3103 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.9)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-23

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-1200mm-3000K-2040D-Rev1

UTILIZATION FACTORS TABLE

Test:U:24.00V I:1.900A P:45.60W PF:1.000 Lamp Flux:3102.51x1 lm		
NAME:Cobra-1200mm-3000K-2040D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x40 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

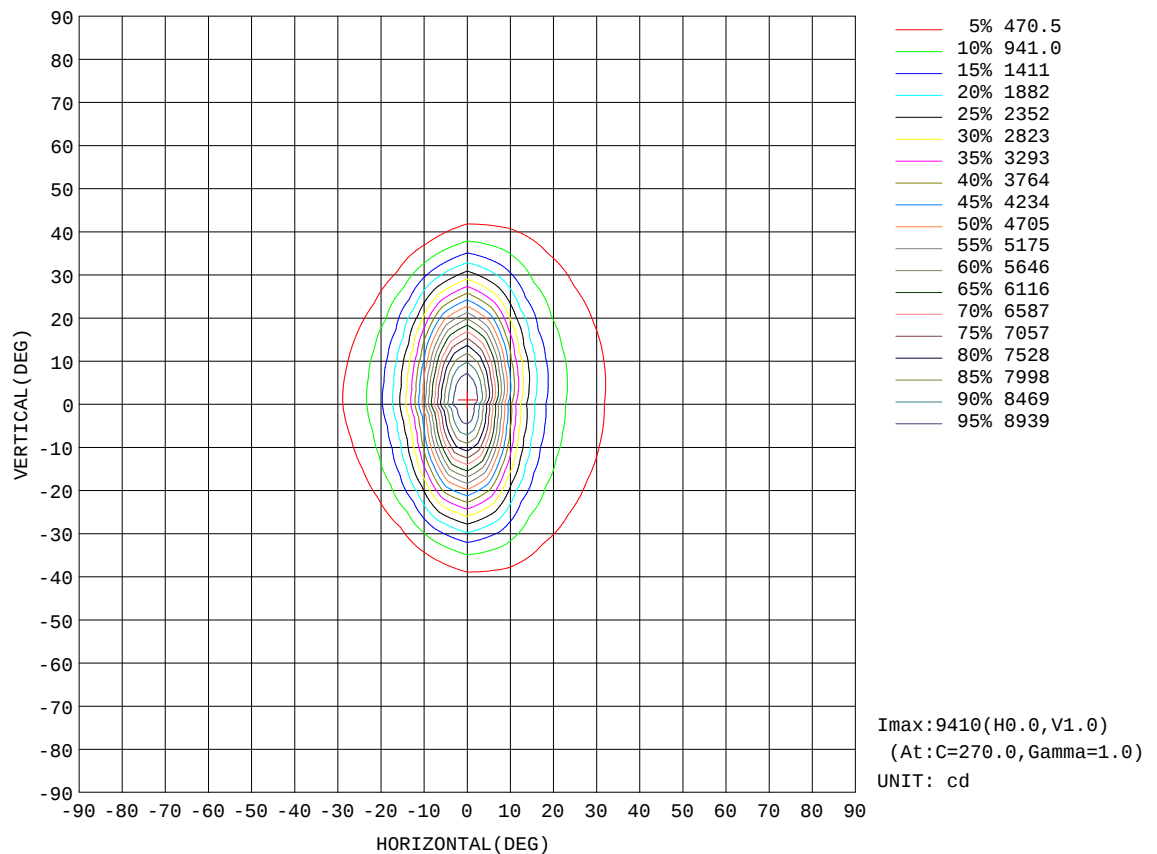
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	94	89	85	94	88	85	92	88	84	81
1.00	99	93	90	98	93	89	96	92	89	85
1.25	103	98	94	102	97	94	99	96	93	88
1.50	105	101	97	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	103	102	95
4.00	113	111	108	111	109	107	107	105	104	96
5.00	115	112	111	112	110	109	108	107	105	97
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:2023-02-23

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-1200mm-3000K-2040D-Rev1

ISOCANDELA DIAGRAM

Test:U:24.00V I:1.900A P:45.60W PF:1.000 Lamp Flux:3102.51x1 lm		
NAME:Cobra-1200mm-3000K-2040D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x40 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



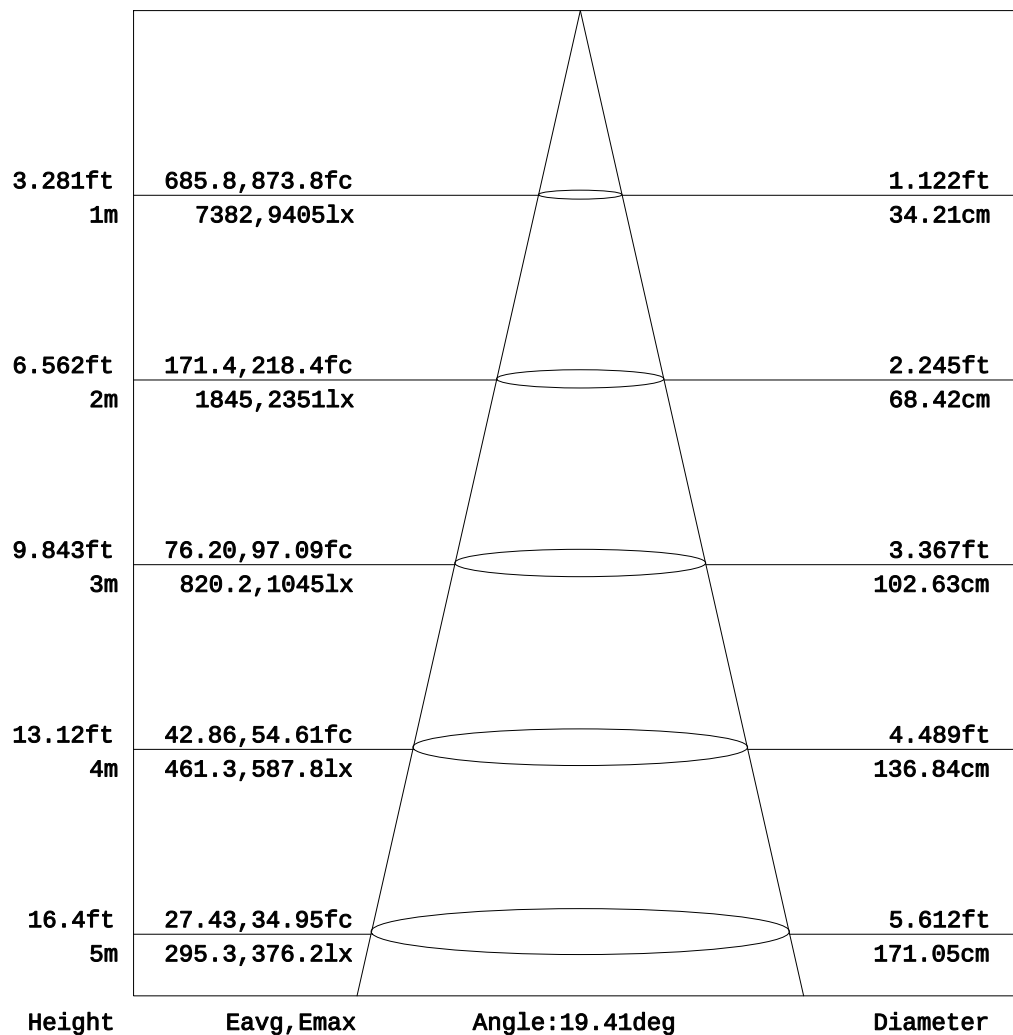
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-23

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-1200mm-3000K-2040D-Rev1

AAI Figure

Test:U:24.00V I:1.900A P:45.60W PF:1.000 Lamp Flux:3102.51x1 lm		
NAME:Cobra-1200mm-3000K-2040D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x40 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:721.0 lm



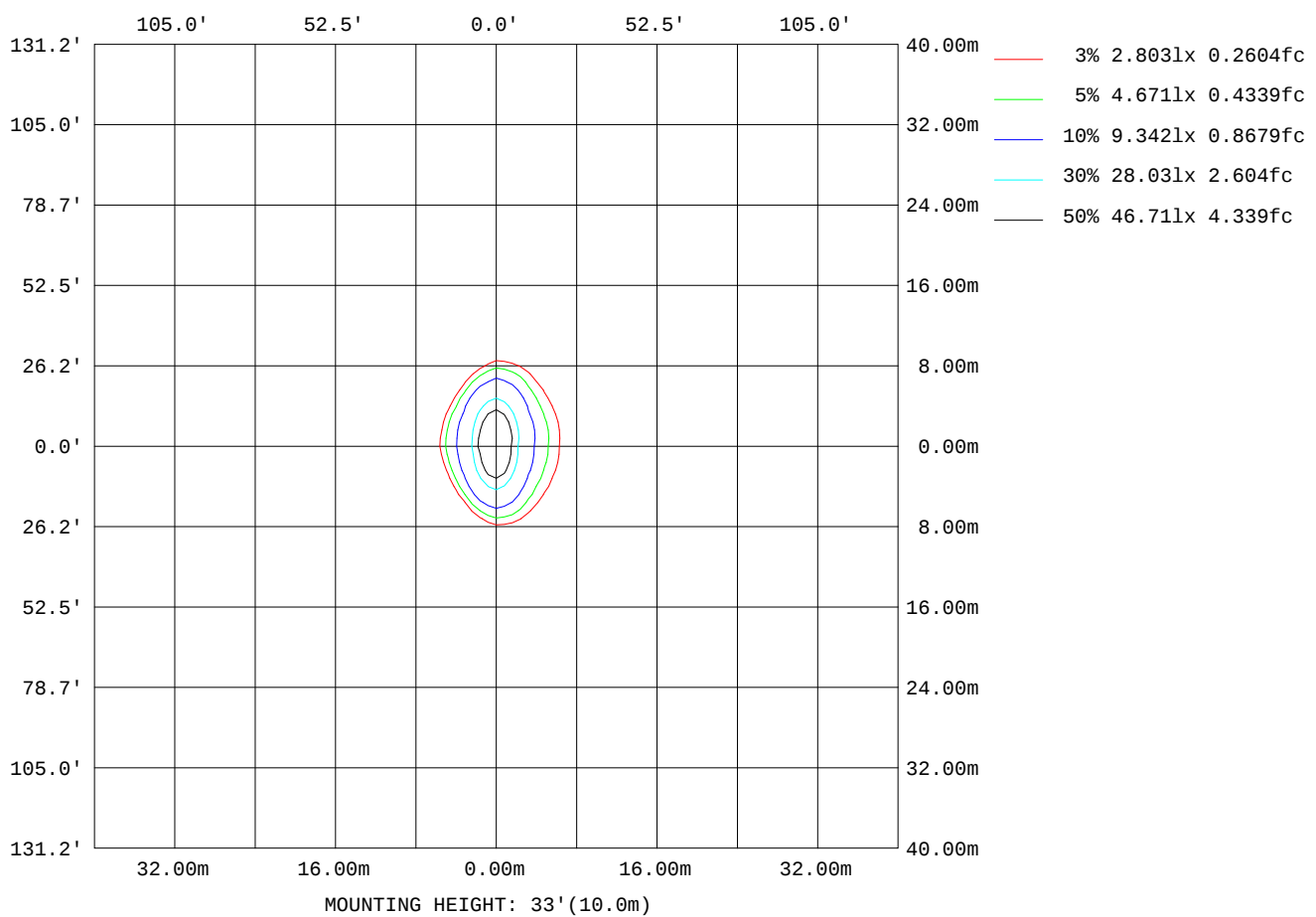
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-23

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-1200mm-3000K-2040D-Rev1

ISOLUX DIAGRAM

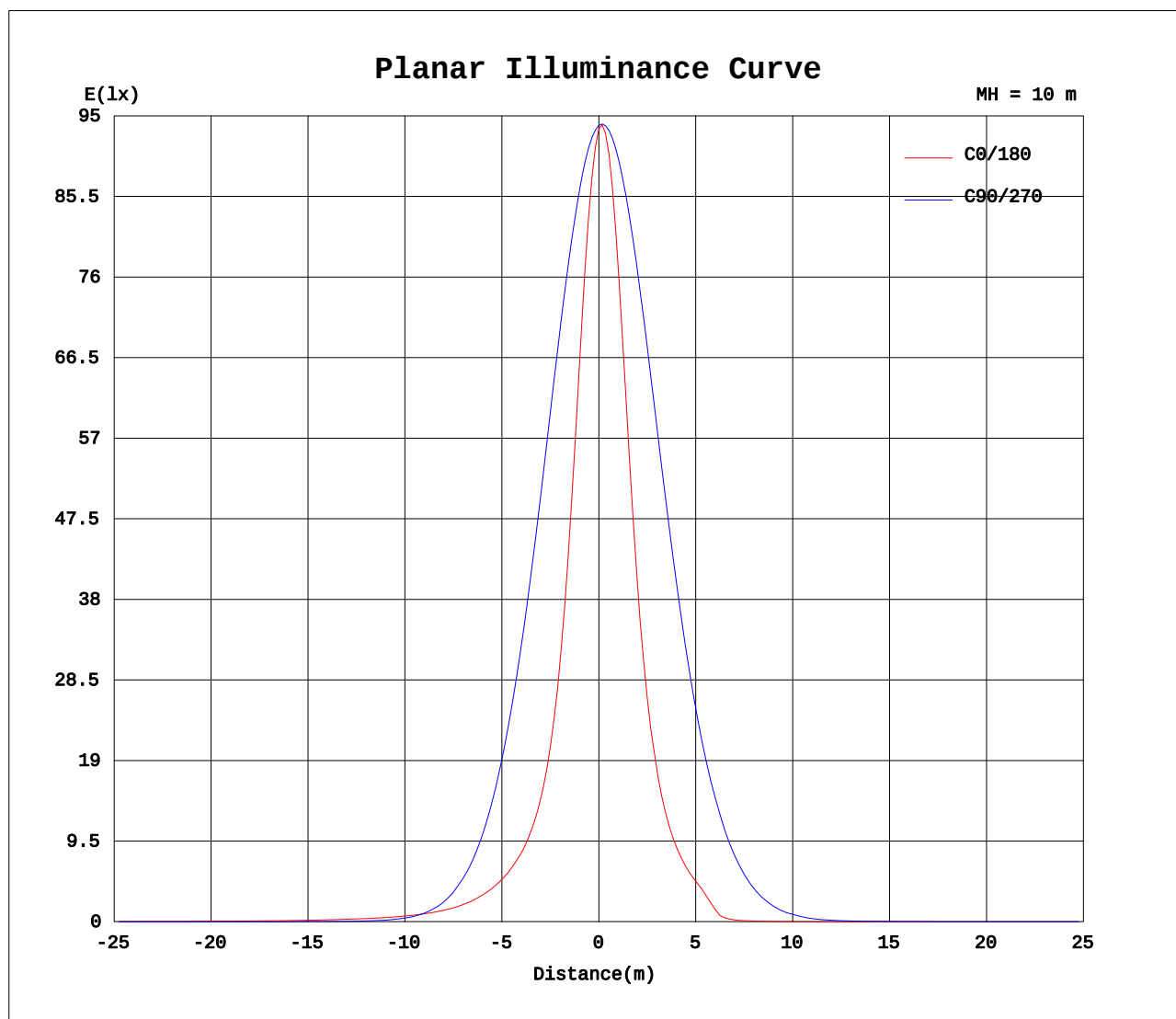
Test:U:24.00V I:1.900A P:45.60W PF:1.000 Lamp Flux:3102.51x1 lm		
NAME:Cobra-1200mm-3000K-2040D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x40 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QIU
Test Date: 2023-02-23

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-1200mm-3000K-2040D-Rev1

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QIU
Test Date: 2023-02-23

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-1200mm-3000K-2040D-Rev1

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:1.900A P:45.60W PF:1.000 Lamp Flux:3102.51x1 lm		
NAME:Cobra-1200mm-3000K-2040D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x40 DEG	SPEC.:1200MM	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	9342	9343	9310	9338	9353	9378	9389	9373	9376	9363	9362	9374	9342	9343	9310	9338	9353	9378	9389
5	7138	7316	7493	7966	8351	8725	8874	8831	8590	8314	7971	7860	8236	8207	8436	8654	8975	9150	9216
10	3876	4097	4491	5386	6381	7366	7764	7558	6762	5877	5038	4661	4995	5058	5624	6370	7406	8139	8422
15	2006	2162	2392	3121	4253	5640	6272	5879	4636	3487	2695	2432	2534	2614	3089	3890	5290	6582	7145
20	1187	1231	1358	1760	2584	3934	4636	4129	2812	1903	1433	1279	1352	1403	1665	2189	3364	4840	5586
25	784	800	865	1046	1512	2508	3105	2569	1536	1012	801	737	785	824	938	1207	1947	3200	3986
30	538	545	572	664	902	1479	1833	1368	735	443	299	270	343	355	470	620	1019	1860	2561
35	370	375	391	439	540	810	934	585	236	102	53.2	39.0	42.0	46.7	73.4	155	397	910	1422
40	261	265	276	302	333	404	380	206	66.7	30.4	17.6	13.6	14.4	15.8	22.4	38.5	99.4	322	656
45	192	197	202	212	200	181	125	60.4	20.1	10.0	6.49	5.19	5.34	6.06	8.39	12.9	30.2	99.9	248
50	148	149	150	148	112	69.0	40.4	17.4	5.97	2.43	0.98	0.41	0.31	0.50	1.30	4.11	9.43	27.0	72.7
55	117	115	110	99.2	61.0	29.8	16.6	5.24	1.37	0.73	0.25	0.04	0.06	0.09	0.33	0.94	1.94	7.93	25.5
60	91.5	87.7	77.4	63.4	34.4	17.7	7.72	1.45	0.55	0.18	0.06	0.04	0.04	0.06	0.06	0.29	0.79	2.30	11.0
65	68.8	64.2	53.3	40.3	21.4	11.7	3.43	0.49	0.17	0.04	0.04	0.04	0.04	0.05	0.05	0.08	0.26	0.74	4.78
70	47.4	43.9	35.3	26.7	14.8	7.86	1.53	0.16	0.06	0.03	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.27	2.04
75	31.2	27.9	22.0	18.2	11.3	5.41	0.72	0.07	0.04	0.04	0.04	0.05	0.05	0.04	0.05	0.04	0.04	0.14	0.91
80	19.9	17.0	14.0	12.3	9.01	3.90	0.31	0.05	0.04	0.05	0.06	0.06	0.05	0.04	0.06	0.04	0.04	0.06	0.37
85	10.4	8.97	7.82	7.64	6.84	2.90	0.13	0.07	0.07	0.10	0.10	0.11	0.07	0.05	0.07	0.04	0.05	0.05	0.13
90	2.68	2.40	2.14	2.60	1.85	0.20	0.05	0.09	0.12	0.17	0.17	0.21	0.12	0.08	0.11	0.06	0.08	0.05	0.05
95	0.20	0.16	0.16	0.12	0.09	0.14	0.05	0.12	0.17	0.25	0.28	0.34	0.18	0.15	0.16	0.11	0.11	0.05	0.05
100	0.15	0.11	0.12	0.06	0.07	0.06	0.07	0.16	0.25	0.36	0.42	0.51	0.30	0.25	0.24	0.18	0.18	0.08	0.07
105	0.11	0.07	0.08	0.06	0.06	0.10	0.14	0.24	0.35	0.52	0.63	0.75	0.44	0.38	0.34	0.27	0.25	0.12	0.10
110	0.09	0.06	0.07	0.07	0.08	0.18	0.25	0.38	0.50	0.76	0.92	1.05	0.62	0.56	0.49	0.38	0.31	0.19	0.16
115	0.06	0.06	0.06	0.11	0.17	0.32	0.44	0.61	0.81	1.13	1.30	1.39	0.86	0.79	0.72	0.56	0.42	0.31	0.26
120	0.06	0.09	0.09	0.21	0.36	0.58	0.79	1.05	1.38	1.72	1.82	1.81	1.11	1.07	1.01	0.85	0.65	0.51	0.42
125	0.13	0.17	0.23	0.43	0.71	1.09	1.51	1.95	2.38	2.57	2.52	2.38	1.41	1.43	1.41	1.30	1.05	0.86	0.69
130	0.34	0.41	0.57	0.88	1.39	2.15	3.00	3.83	4.00	3.79	3.51	3.20	1.77	1.89	1.96	1.98	1.76	1.51	1.17
135	0.89	0.96	1.27	1.79	2.81	4.35	6.04	7.27	6.60	5.59	4.99	4.48	2.29	2.55	2.74	3.00	2.99	2.84	2.14
140	2.10	2.27	2.91	3.86	5.74	8.47	11.4	12.9	10.6	8.35	7.29	6.49	3.17	3.60	3.94	4.47	4.96	5.36	4.16
145	5.49	5.78	6.82	8.05	11.0	15.2	19.6	21.5	17.1	12.7	10.8	9.59	4.59	5.20	5.80	6.72	8.09	9.71	8.14
150	12.2	12.3	12.8	14.5	19.1	25.1	31.2	33.6	27.2	19.8	16.2	14.2	6.86	7.69	8.60	10.2	13.1	16.8	15.4
155	20.8	20.6	21.3	24.1	30.5	38.4	46.3	49.2	42.0	31.4	25.3	21.8	10.3	11.4	12.9	16.0	21.2	27.3	26.9
160	35.8	34.0	34.3	37.7	45.8	55.0	63.7	66.9	61.3	49.9	41.3	35.5	15.8	17.2	20.1	25.6	33.1	41.4	42.7
165	60.7	54.7	52.8	56.1	65.0	73.7	81.6	84.7	82.6	74.6	66.6	59.5	25.6	27.4	32.6	40.6	49.4	58.5	61.4
170	88.9	77.1	72.7	77.8	85.2	91.4	97.0	99.8	101	99.0	96.0	91.6	41.1	43.9	51.5	60.4	68.9	77.4	80.9
175	101	88.7	89.3	96.4	101	104	107	109	112	113	113	111	60.8	64.7	74.0	82.6	89.2	95.3	98.2
180	87.7	85.6	94.2	101	105	107	110	110	111	110	107	104	87.7	85.7	94.2	101	105	107	109

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-02-23

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-1200mm-3000K-2040D-Rev1

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:1.900A P:45.60W PF:1.000 Lamp Flux:3102.51x1 lm		
NAME:Cobra-1200mm-3000K-2040D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x40 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345														
0	9373	9376	9363	9362	9374														
5	9044	8786	8360	8042	7691														
10	7965	7079	5925	5098	4447														
15	6406	4973	3555	2766	2302														
20	4706	3162	2047	1567	1331														
25	3158	1905	1228	982	872														
30	1955	1141	784	658	590														
35	1126	697	519	450	404														
40	600	434	354	313	283														
45	281	270	248	226	207														
50	114	158	176	168	157														
55	43.6	86.0	121	125	122														
60	22.0	45.9	78.0	89.8	93.9														
65	14.1	26.3	48.7	62.2	69.5														
70	8.96	16.9	31.0	41.8	48.3														
75	5.96	12.1	20.5	26.0	30.6														
80	4.14	9.35	13.6	16.0	18.7														
85	2.91	7.21	8.86	9.64	10.4														
90	2.04	4.80	4.33	3.80	3.37														
95	0.24	0.10	0.16	0.16	0.21														
100	0.19	0.06	0.11	0.11	0.14														
105	0.12	0.05	0.09	0.07	0.10														
110	0.09	0.07	0.07	0.07	0.10														
115	0.16	0.12	0.07	0.07	0.08														
120	0.30	0.21	0.12	0.10	0.07														
125	0.52	0.38	0.22	0.16	0.10														
130	0.91	0.67	0.44	0.29	0.20														
135	1.63	1.16	0.84	0.59	0.43														
140	2.99	2.09	1.59	1.19	0.99														
145	5.72	3.88	2.99	2.49	2.26														
150	11.2	7.43	5.58	4.79	4.86														
155	21.2	14.5	10.6	8.87	8.89														
160	36.3	26.6	19.6	15.9	15.4														
165	55.6	44.6	34.5	27.8	25.9														
170	76.9	67.7	57.2	47.6	42.9														
175	96.8	92.5	86.1	78.1	71.8														
180	110	111	110	107	104														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QIU
 Test Date:2023-02-23

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-1200mm-3000K-2040D-Rev1