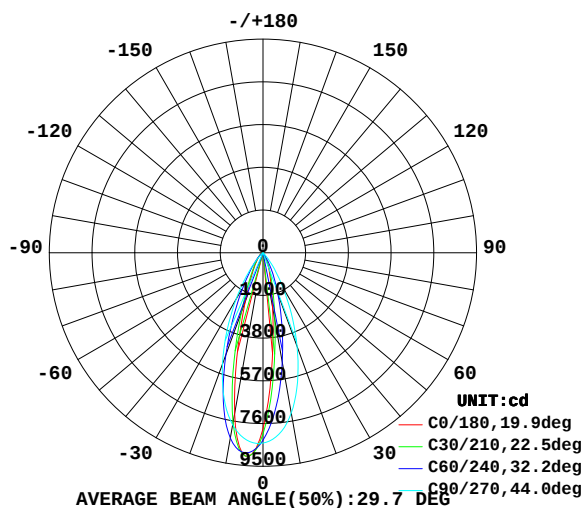


LUMINAIRE PHOTOMETRIC TEST REPORT

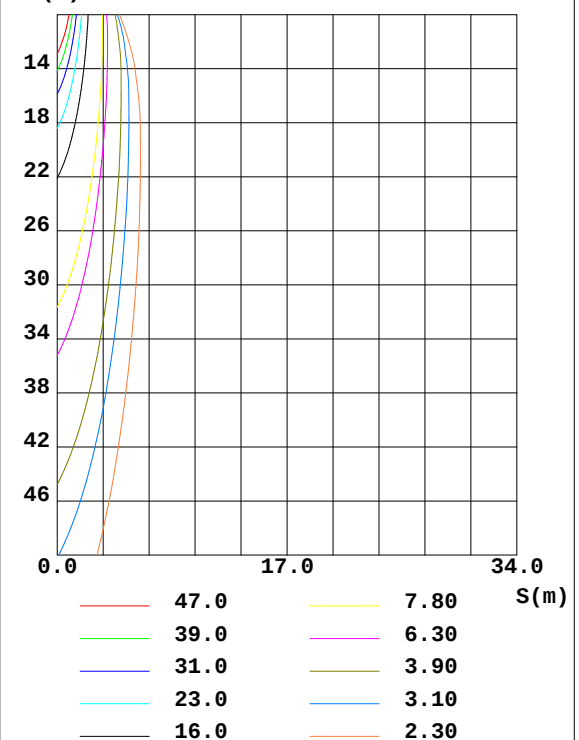
Test:U:24.00V I:1.878A P:45.07W PF:1.000 Lamp Flux:3194.35x1 lm		
NAME:Cobra-1200mm-3000K-2050D-Rev1	TYPE: 3000K	WEIGHT:
DIM.:20x50 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.87 lm/W			
MODEL		I _{max} (cd)	9098	S/MH(C0/180)	0.23
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	0.67
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	3194.3	η UP, DN(C0-180)	0.8, 43.6
NOMINAL FLUX(lm)	3194.35	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.5, 55.1
LAMPS INSIDE	1	η up(%)	1.3	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	24.0	η down(%)	98.7	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: 2022-11-01

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-2050D-Rev1

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2486	3881	7243	7229	7274	8022	7776	4352	0- 10	675.1	675.1	21.1, 21.1
20	771.2	1263	4439	2870	2324	3571	5266	1482	10- 20	1158	1833	57.4, 57.4
30	41.02	203.2	1755	949.6	836.4	1180	2415	309.9	20- 30	769.5	2602	81.5, 81.5
40	5.340	15.42	359.3	388.6	384.8	467.2	606.6	23.54	30- 40	330.2	2932	91.8, 91.8
50	0.0809	1.006	37.36	182.6	205.1	222.2	72.31	1.446	40- 50	122.2	3055	95.6, 95.6
60	0.0452	0.0738	6.612	75.67	126.7	100.8	10.89	0.1775	50- 60	52.12	3107	97.3, 97.3
70	0.0419	0.0483	1.243	30.34	72.33	40.09	1.995	0.0484	60- 70	26.62	3133	98.1, 98.1
80	0.0869	0.0808	0.2621	13.63	31.87	17.74	0.3833	0.0483	70- 80	12.89	3146	98.5, 98.5
90	0.3216	0.2065	0.0548	4.433	11.12	6.993	0.0483	0.0709	80- 90	5.671	3152	98.7, 98.7
100	0.7084	0.4165	0.0837	0.0933	0.2711	0.1486	0.0710	0.1835	90-100	1.100	3153	98.7, 98.7
110	1.318	0.8467	0.2669	0.0806	0.0999	0.0967	0.1485	0.3962	100-110	0.3109	3153	98.7, 98.7
120	2.188	1.886	0.8274	0.1616	0.0935	0.0807	0.3934	0.8592	110-120	0.5384	3154	98.7, 98.7
130	3.944	3.996	2.835	0.6488	0.1419	0.3093	1.160	1.997	120-130	1.063	3155	98.8, 98.8
140	8.412	8.606	10.07	2.760	0.4996	1.188	4.219	4.506	130-140	2.356	3157	98.8, 98.8
150	19.90	19.97	27.25	12.78	2.495	5.035	14.31	10.65	140-150	5.329	3163	99.99
160	54.51	44.88	55.65	36.49	10.33	18.50	37.72	26.73	150-160	10.44	3173	99.3, 99.3
170	102.0	81.44	84.45	75.68	28.46	46.35	70.81	62.85	160-170	13.91	3187	99.8, 99.8
180	72.45	86.56	95.52	97.49	72.59	87.02	95.50	97.40	170-180	7.362	3194	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

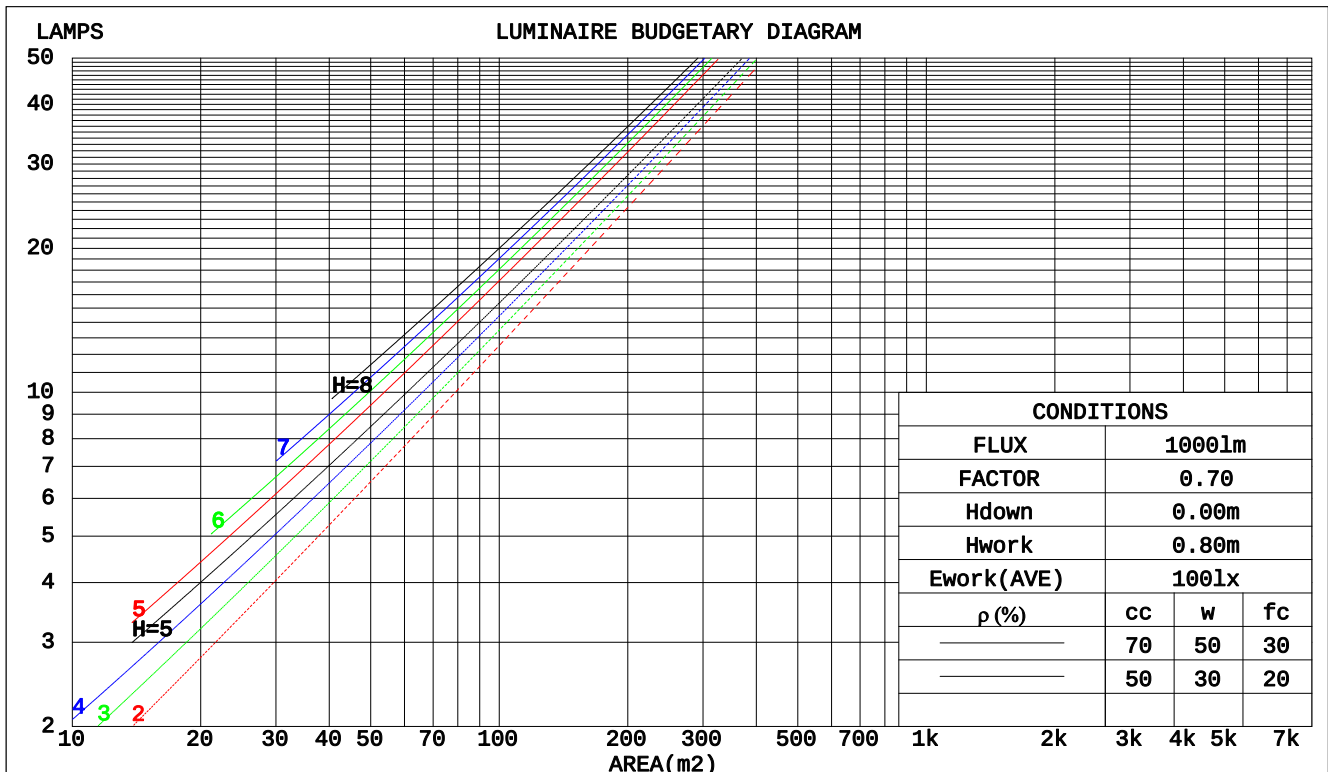
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QIU
 Test Date: 2022-11-01

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-2050D-Rev1

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:1.878A P:45.07W PF:1.000 Lamp Flux:3194.35x1 lm		
NAME:Cobra-1200mm-3000K-2050D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x50 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	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.04	1.01	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.91	.90	.88
3.0	.98	.94	.90	.97	.93	.89	.94	.91	.88	.91	.89	.86	.89	.87	.85	.83
4.0	.93	.88	.84	.92	.87	.84	.89	.86	.83	.87	.84	.81	.85	.83	.80	.79
5.0	.88	.83	.79	.87	.82	.79	.85	.81	.78	.84	.80	.77	.82	.79	.76	.75
6.0	.84	.79	.75	.83	.78	.75	.81	.77	.74	.80	.76	.73	.79	.75	.73	.71
7.0	.80	.75	.71	.79	.74	.71	.78	.74	.70	.77	.73	.70	.76	.72	.69	.68
8.0	.76	.71	.68	.76	.71	.67	.75	.70	.67	.74	.70	.67	.73	.69	.66	.65
9.0	.73	.68	.65	.73	.68	.64	.72	.67	.64	.71	.67	.64	.70	.66	.64	.62
10.0	.70	.65	.62	.70	.65	.62	.69	.65	.62	.68	.64	.61	.67	.64	.61	.60



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QIU
 Test Date: 2022-11-01

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-2050D-Rev1

WEC AND CCEC

Test:U:24.00V I:1.878A P:45.07W PF:1.000 Lamp Flux:3194.35x1 lm								
NAME:Cobra-1200mm-3000K-2050D-Rev1				TYPE: 3000K			WEIGHT:	
DIM.:20x50 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	.166	.094	.030	.159	.091	.029	.145	.083	.027	.133	.077	.025	.122	.071	.023	
2.0	.156	.086	.026	.150	.083	.025	.139	.077	.024	.129	.072	.023	.119	.067	.021	
3.0	.147	.078	.023	.142	.076	.023	.132	.072	.022	.124	.068	.021	.115	.064	.020	
4.0	.139	.072	.021	.134	.070	.021	.126	.067	.020	.119	.064	.019	.111	.061	.018	
5.0	.131	.067	.019	.127	.065	.019	.120	.063	.018	.114	.060	.018	.107	.057	.017	
6.0	.124	.062	.018	.121	.061	.018	.115	.059	.017	.109	.057	.017	.104	.055	.016	
7.0	.118	.059	.017	.116	.058	.016	.110	.056	.016	.105	.054	.016	.100	.052	.015	
8.0	.113	.055	.016	.110	.054	.015	.105	.053	.015	.101	.051	.015	.096	.050	.014	
9.0	.108	.052	.015	.106	.051	.014	.101	.050	.014	.097	.049	.014	.093	.047	.014	
10.0	.103	.050	.014	.101	.049	.014	.097	.048	.013	.094	.046	.013	.090	.045	.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	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.181	.168	.156	.154	.144	.134	.106	.099	.093	.061	.057	.054	.019	.018	.017	
2.0	.164	.143	.125	.141	.123	.108	.097	.085	.075	.056	.049	.044	.018	.016	.014	
3.0	.151	.124	.102	.130	.107	.088	.089	.074	.062	.051	.043	.037	.017	.014	.012	
4.0	.140	.109	.085	.120	.094	.074	.083	.066	.052	.048	.038	.031	.015	.013	.010	
5.0	.131	.097	.072	.112	.084	.063	.077	.059	.044	.045	.034	.026	.014	.011	.009	
6.0	.122	.088	.062	.105	.076	.054	.073	.053	.038	.042	.031	.023	.014	.010	.008	
7.0	.116	.080	.055	.099	.069	.048	.069	.048	.034	.040	.029	.020	.013	.009	.007	
8.0	.109	.073	.048	.094	.064	.042	.065	.045	.030	.038	.026	.018	.012	.009	.006	
9.0	.104	.068	.043	.090	.059	.038	.062	.041	.027	.036	.024	.016	.012	.008	.005	
10.0	.099	.063	.039	.086	.055	.034	.059	.039	.024	.035	.023	.015	.011	.008	.005	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2022-11-01

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-2050D-Rev1

Uncorrected UGR Table

Test:U:24.00V I:1.878A P:45.07W PF:1.000 Lamp Flux:3194.35x1 lm											
NAME:Cobra-1200mm-3000K-2050D-Rev1						TYPE: 3000K			WEIGHT:		
DIM.:20x50 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		-7.6	-6.8	-7.3	-6.6	-6.4	14.5	15.4	14.8	15.6	15.7
	3H	-7.7	-7.0	-7.5	-6.8	-6.5	14.4	15.1	14.6	15.4	15.6
	4H	-7.8	-7.1	-7.5	-6.9	-6.6	14.3	15.0	14.6	15.2	15.5
	6H	-7.9	-7.2	-7.6	-7.0	-6.7	14.2	14.9	14.5	15.1	15.4
	8H	-7.9	-7.3	-7.6	-7.0	-6.7	14.2	14.8	14.5	15.1	15.4
	12H	-7.9	-7.3	-7.6	-7.0	-6.7	14.1	14.7	14.4	15.0	15.3
4H	2H	-7.8	-7.1	-7.5	-6.9	-6.6	14.3	15.0	14.6	15.2	15.5
	3H	-8.0	-7.4	-7.7	-7.1	-6.8	14.1	14.7	14.4	15.0	15.3
	4H	-8.1	-7.5	-7.7	-7.2	-6.9	14.0	14.6	14.4	14.9	15.2
	6H	-8.2	-7.7	-7.8	-7.3	-6.9	13.9	14.4	14.3	14.8	15.1
	8H	-8.2	-7.7	-7.8	-7.3	-6.9	13.8	14.3	14.3	14.7	15.1
	12H	-8.1	-7.6	-7.6	-7.3	-6.8	13.8	14.2	14.2	14.6	15.0
8H	4H	-8.2	-7.8	-7.8	-7.4	-7.0	13.8	14.3	14.3	14.7	15.1
	6H	-8.3	-7.9	-7.9	-7.5	-7.1	13.7	14.1	14.2	14.5	15.0
	8H	-8.3	-7.9	-7.8	-7.5	-7.0	13.7	14.0	14.1	14.5	14.9
	12H	-8.1	-7.8	-7.6	-7.3	-6.8	13.6	13.9	14.1	14.4	14.9
12H	4H	-8.3	-7.9	-7.9	-7.5	-7.1	13.8	14.2	14.2	14.6	15.0
	6H	-8.4	-8.0	-7.9	-7.6	-7.1	13.7	14.0	14.1	14.5	14.9
	8H	-8.3	-8.0	-7.8	-7.6	-7.1	13.6	13.9	14.1	14.4	14.9
Variations with the observer position at spacings:											
S = 1.0H	+ 2.4 / - 8.3					+ 6.7 / -26.0					
1.5H	+ 4.9 / - 8.4					+ 9.2 / -28.8					
2.0H	+ 0.6 / - 0.6					+10.8 / -23.8					

CIE Pub.117 Corrected 3194 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.0)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2022-11-01

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-2050D-Rev1

UTILIZATION FACTORS TABLE

Test:U:24.00V I:1.878A P:45.07W PF:1.000 Lamp Flux:3194.35x1 lm		
NAME:Cobra-1200mm-3000K-2050D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x50 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

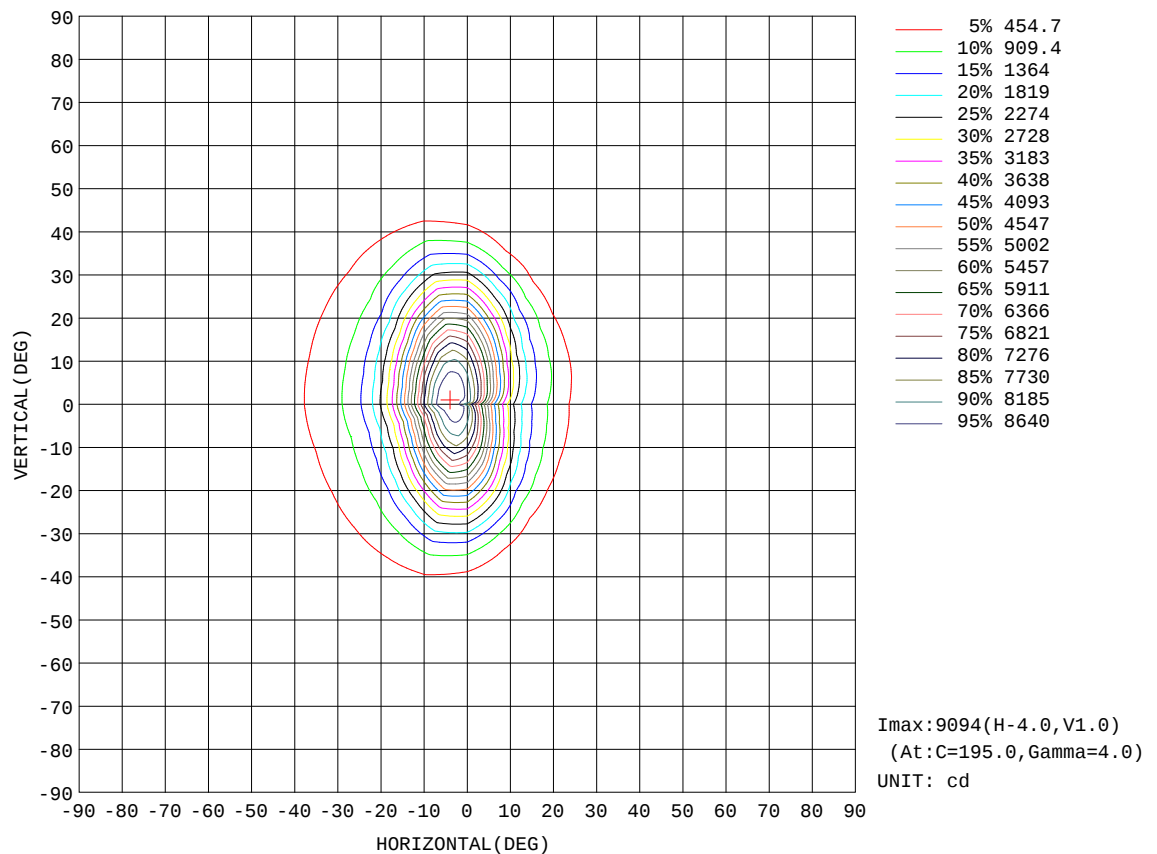
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	86	80	76	86	80	76	85	79	76	72
0.80	94	88	84	93	88	84	92	87	84	80
1.00	98	93	89	97	92	89	96	92	88	84
1.25	102	97	94	101	96	93	99	95	92	88
1.50	105	100	97	104	99	96	101	98	95	90
2.00	108	104	100	106	102	99	103	100	98	92
2.50	110	106	103	108	104	102	105	102	100	93
3.00	111	108	105	109	106	104	106	103	101	95
4.00	113	110	108	111	109	107	107	105	104	96
5.00	115	112	110	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:2022-11-01

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-2050D-Rev1

ISOCANDELA DIAGRAM

Test:U:24.00V I:1.878A P:45.07W PF:1.000 Lamp Flux:3194.35x1 lm		
NAME:Cobra-1200mm-3000K-2050D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x50 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



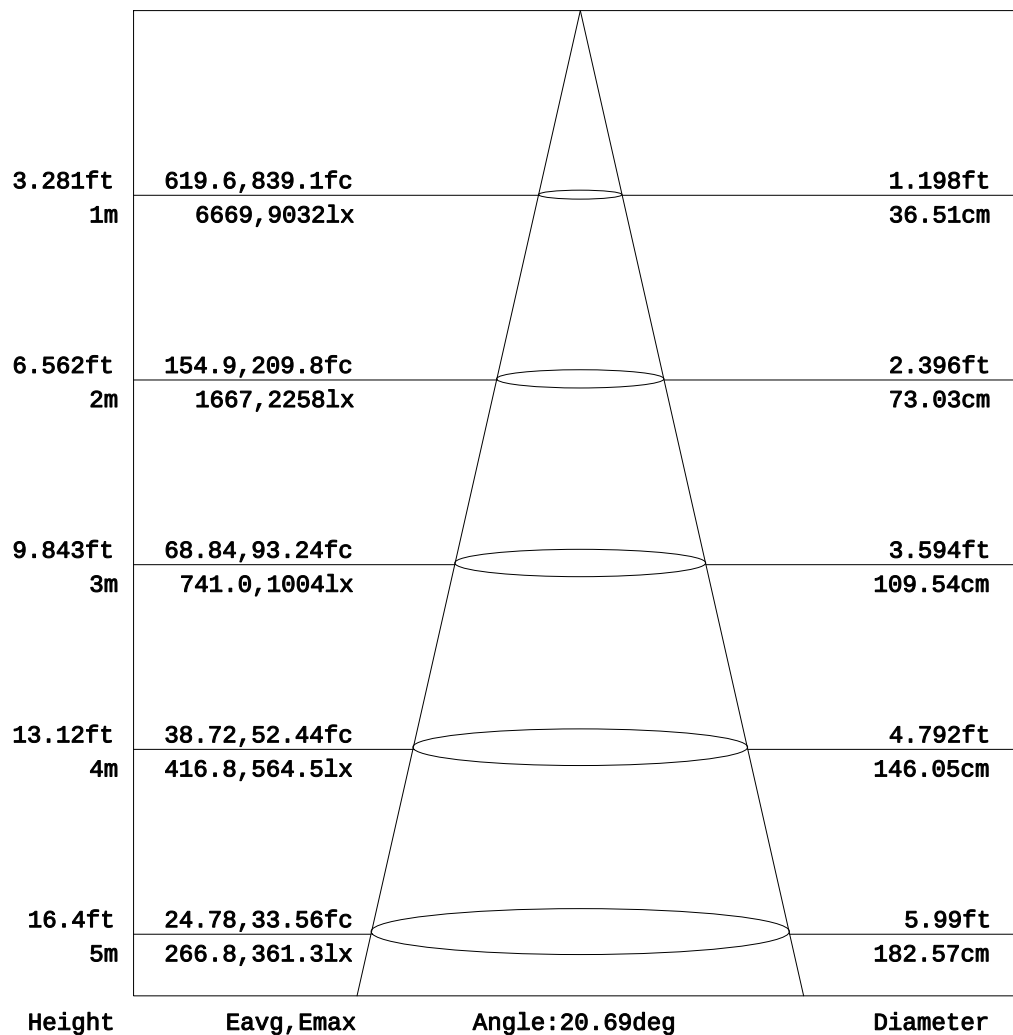
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QIU
Test Date: 2022-11-01

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-2050D-Rev1

AAI Figure

Test:U:24.00V I:1.878A P:45.07W PF:1.000 Lamp Flux:3194.35x1 lm		
NAME:Cobra-1200mm-3000K-2050D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x50 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:791.6 lm



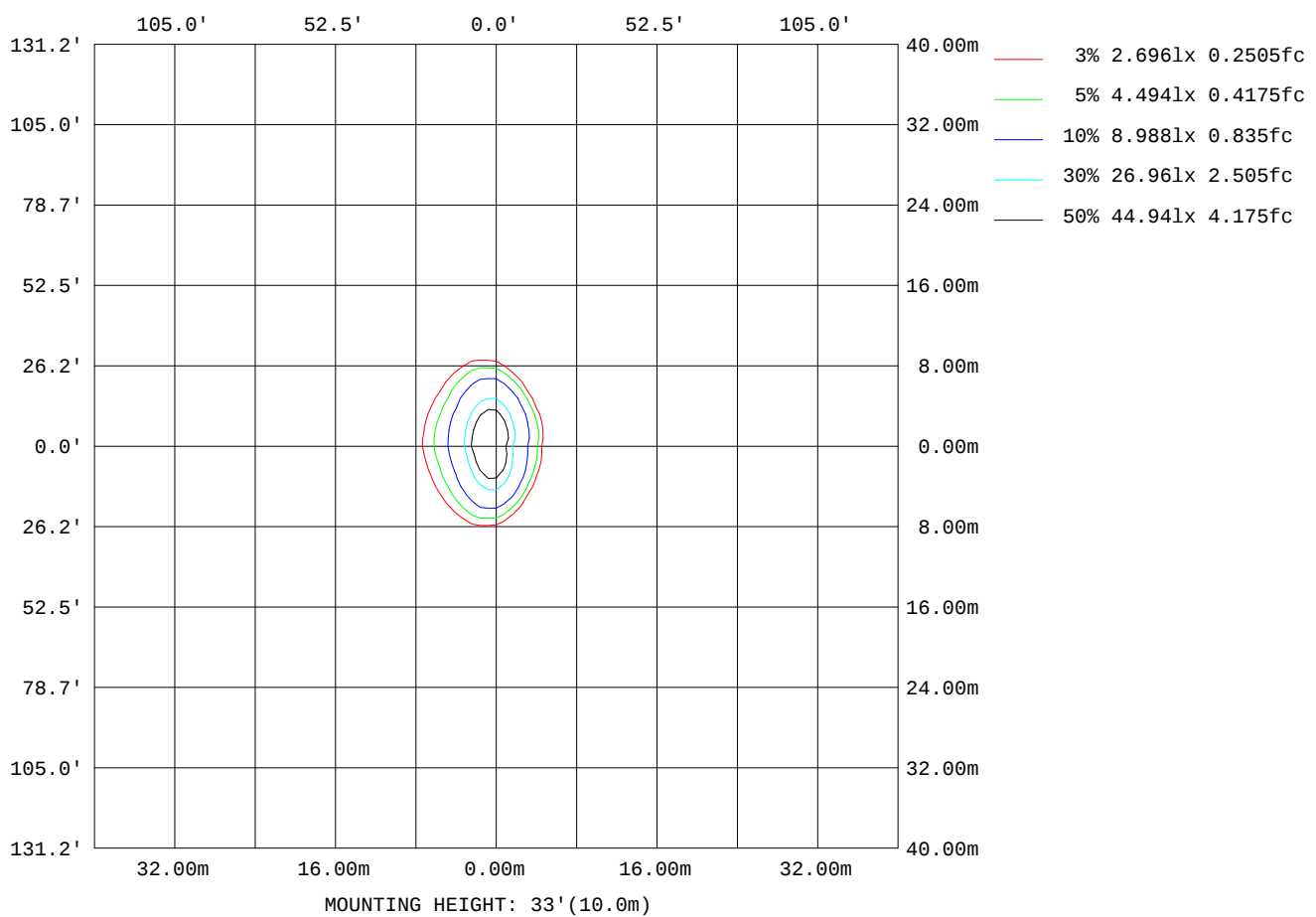
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2022-11-01

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-2050D-Rev1

ISOLUX DIAGRAM

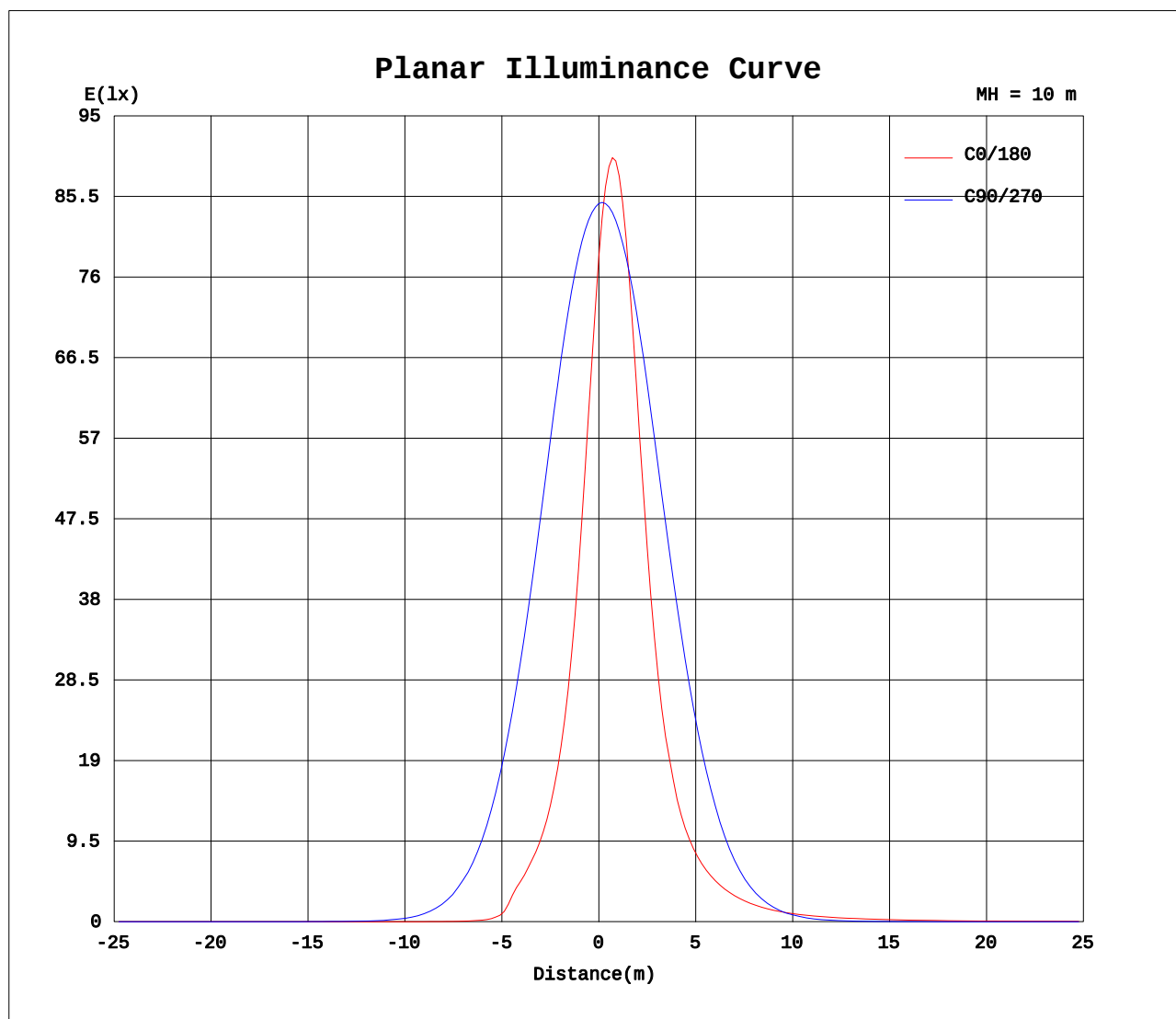
Test:U:24.00V I:1.878A P:45.07W PF:1.000 Lamp Flux:3194.35x1 lm		
NAME:Cobra-1200mm-3000K-2050D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x50 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QIU
 Test Date:2022-11-01

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-2050D-Rev1

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QIU
Test Date: 2022-11-01

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-2050D-Rev1

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:1.878A P:45.07W PF:1.000 Lamp Flux:3194.35x1 lm		
NAME:Cobra-1200mm-3000K-2050D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x50 DEG	SPEC.:1200MM	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
0	7821	7982	8059	8259	8336	8444	8467	8477	8480	8428	8417	8287	7821	7982	8059	8259	8336	8444	8467
5	4781	5056	5428	6148	6836	7586	8107	8477	8631	8700	8704	8781	9073	9077	9075	9039	8932	8724	8362
10	2486	2681	3057	3881	4953	6269	7243	7742	7600	7229	6740	6596	7274	7305	7667	8022	8373	8319	7776
15	1338	1441	1674	2279	3231	4723	5943	6359	5756	4882	4096	3791	4287	4386	4993	5804	6819	7220	6694
20	771	813	939	1263	1935	3231	4439	4689	3802	2870	2249	2073	2324	2366	2810	3571	4832	5641	5266
25	279	342	444	646	1044	1963	2982	3114	2274	1619	1286	1188	1313	1355	1582	2042	3051	3973	3765
30	41.0	49.4	80.9	203	444	1019	1755	1873	1302	950	806	761	836	863	957	1180	1785	2537	2415
35	14.5	16.7	23.1	44.4	118	415	894	1021	744	591	524	510	562	572	621	721	1021	1474	1318
40	5.34	6.43	8.75	15.4	36.5	131	359	494	431	389	360	352	385	393	423	467	591	781	607
45	0.25	0.46	1.57	4.76	11.3	40.0	116	212	245	265	256	252	273	279	299	318	346	350	233
50	0.08	0.06	0.37	1.01	2.65	11.6	37.4	75.2	132	183	188	190	205	208	220	222	198	138	72.3
55	0.05	0.04	0.09	0.35	0.91	3.35	14.8	31.0	68.8	120	139	147	159	161	163	153	105	50.9	25.5
60	0.05	0.05	0.05	0.07	0.35	0.98	6.61	18.1	37.5	75.7	98.7	113	127	125	120	101	56.3	25.0	10.9
65	0.04	0.05	0.05	0.04	0.11	0.37	2.85	11.8	22.9	47.2	68.0	84.0	98.5	95.0	84.5	63.4	32.3	15.7	4.68
70	0.04	0.06	0.05	0.05	0.06	0.15	1.24	7.87	15.7	30.3	45.5	59.1	72.3	68.7	58.1	40.1	20.7	10.2	2.00
75	0.04	0.08	0.06	0.05	0.05	0.06	0.57	5.40	11.8	20.3	28.0	37.9	48.0	45.1	37.6	26.4	14.8	6.91	0.91
80	0.09	0.12	0.09	0.08	0.05	0.05	0.26	3.83	9.26	13.6	17.6	23.9	31.9	28.9	23.0	17.7	11.4	4.87	0.38
85	0.18	0.21	0.16	0.14	0.10	0.08	0.12	2.88	7.09	9.08	11.0	14.3	20.5	17.8	14.6	11.9	8.83	3.52	0.16
90	0.32	0.32	0.26	0.21	0.14	0.11	0.05	1.32	4.38	4.43	5.08	6.82	11.1	9.50	8.28	6.99	6.17	2.61	0.05
95	0.49	0.49	0.39	0.29	0.20	0.13	0.06	0.12	0.12	0.32	0.72	1.51	3.21	2.74	2.37	1.53	0.60	0.21	0.05
100	0.71	0.69	0.56	0.42	0.26	0.18	0.08	0.09	0.09	0.09	0.15	0.14	0.27	0.24	0.16	0.15	0.11	0.15	0.07
105	1.00	0.97	0.80	0.58	0.37	0.25	0.15	0.11	0.08	0.08	0.11	0.11	0.13	0.15	0.12	0.11	0.07	0.10	0.09
110	1.32	1.28	1.09	0.85	0.55	0.40	0.27	0.18	0.08	0.08	0.10	0.08	0.10	0.13	0.08	0.10	0.08	0.08	0.15
115	1.71	1.66	1.51	1.26	0.89	0.65	0.47	0.32	0.15	0.09	0.08	0.08	0.09	0.11	0.08	0.08	0.11	0.14	0.24
120	2.19	2.14	2.07	1.89	1.48	1.09	0.83	0.56	0.30	0.16	0.08	0.08	0.09	0.10	0.09	0.08	0.18	0.26	0.39
125	2.87	2.82	2.87	2.77	2.45	1.93	1.52	1.06	0.59	0.32	0.14	0.12	0.10	0.09	0.12	0.16	0.30	0.47	0.66
130	3.94	3.87	4.05	4.00	3.91	3.53	2.84	2.07	1.17	0.65	0.35	0.24	0.14	0.13	0.20	0.31	0.54	0.86	1.16
135	5.66	5.59	5.80	5.83	6.22	6.14	5.50	4.17	2.36	1.31	0.82	0.55	0.25	0.26	0.38	0.61	0.98	1.64	2.17
140	8.41	8.31	8.49	8.61	9.65	10.4	10.1	8.32	4.94	2.76	1.79	1.25	0.50	0.56	0.77	1.19	1.87	3.25	4.22
145	12.7	12.6	12.6	13.0	15.1	16.5	17.1	15.4	10.3	6.13	4.10	2.94	1.08	1.23	1.58	2.41	3.82	6.47	7.96
150	19.9	19.5	19.1	20.0	23.0	25.9	27.2	25.7	18.8	12.8	9.47	7.31	2.49	2.79	3.44	5.03	7.77	12.2	14.3
155	32.6	31.3	29.5	30.4	34.7	38.8	40.5	38.8	30.8	22.5	17.6	14.7	5.50	6.01	7.19	10.2	14.7	21.2	24.2
160	54.5	49.1	44.0	44.9	50.5	54.4	55.6	53.7	46.1	36.5	29.6	25.2	10.3	11.3	13.7	18.5	24.9	33.4	37.7
165	83.3	69.4	60.9	63.4	68.8	70.9	71.0	69.0	63.6	55.1	47.6	41.9	17.4	18.9	23.2	30.3	38.5	48.1	53.8
170	102	83.0	75.6	81.4	84.7	85.1	84.5	82.9	80.4	75.7	70.5	65.9	28.5	30.9	37.4	46.3	55.2	64.7	70.8
175	95.3	81.8	83.3	90.8	93.3	93.8	93.5	93.1	93.2	91.6	90.2	88.6	46.0	48.5	56.7	66.7	74.3	81.4	86.1
180	72.4	69.7	78.4	86.6	91.3	93.7	95.5	97.2	97.7	97.5	96.7	95.6	72.6	69.9	78.0	87.0	91.1	93.6	95.5

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2022-11-01

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-2050D-Rev1

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:1.878A P:45.07W PF:1.000 Lamp Flux:3194.35x1 lm		
NAME:Cobra-1200mm-3000K-2050D-Rev1	TYPE:3000K	WEIGHT:
DIM.:20x50 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

γ (DEG) \ C (DEG)	285	300	315	330	345														
0	8477	8480	8428	8417	8287														
5	7833	7271	6610	6110	5564														
10	6691	5500	4352	3602	3029														
15	5227	3731	2595	2026	1626														
20	3717	2337	1482	1120	930														
25	2380	1330	828	610	463														
30	1334	659	310	167	80.6														
35	613	220	75.1	34.5	21.4														
40	211	63.2	23.5	12.9	8.42														
45	74.6	20.1	8.58	3.94	1.22														
50	20.7	6.21	1.45	0.60	0.15														
55	6.33	1.41	0.59	0.14	0.07														
60	1.59	0.59	0.18	0.05	0.06														
65	0.64	0.19	0.07	0.05	0.05														
70	0.26	0.06	0.05	0.05	0.05														
75	0.13	0.05	0.05	0.07	0.05														
80	0.06	0.05	0.05	0.08	0.06														
85	0.05	0.06	0.05	0.11	0.09														
90	0.05	0.08	0.07	0.15	0.14														
95	0.06	0.12	0.12	0.22	0.23														
100	0.08	0.16	0.18	0.31	0.35														
105	0.12	0.21	0.27	0.44	0.50														
110	0.18	0.28	0.40	0.59	0.69														
115	0.30	0.42	0.57	0.80	0.94														
120	0.50	0.64	0.86	1.08	1.22														
125	0.84	1.05	1.31	1.47	1.57														
130	1.50	1.76	2.00	2.04	2.08														
135	2.73	2.95	3.02	2.92	2.90														
140	4.88	4.80	4.51	4.29	4.25														
145	8.49	7.73	6.86	6.38	6.38														
150	14.3	12.4	10.7	9.69	9.73														
155	23.4	19.8	16.9	15.2	15.2														
160	36.8	31.4	26.7	24.1	24.3														
165	53.8	48.3	41.9	37.9	38.4														
170	72.1	68.7	62.9	57.1	56.7														
175	88.1	87.6	84.8	80.4	79.0														
180	97.0	97.8	97.4	96.6	95.8														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2022-11-01

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-2050D-Rev1