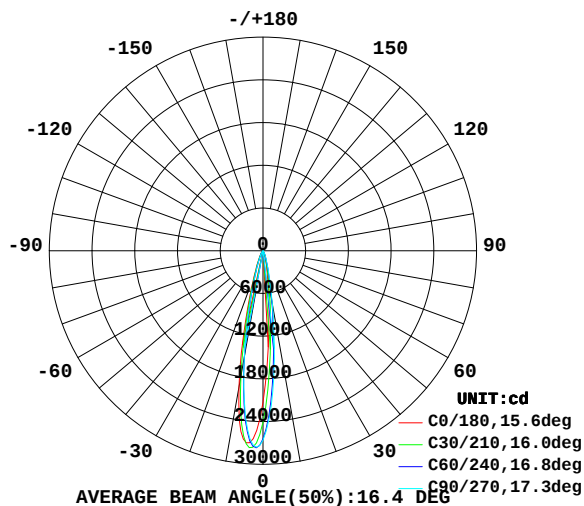


LUMINAIRE PHOTOMETRIC TEST REPORT

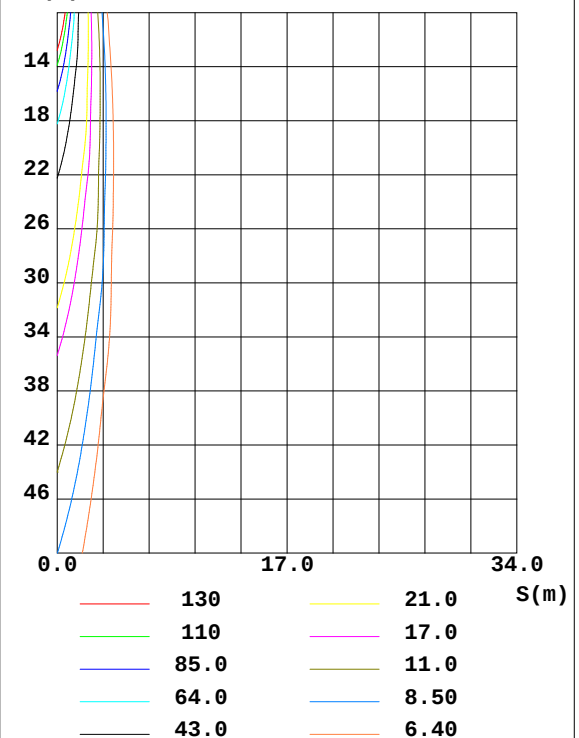
Test:U:24.00V I:1.831A P:43.93W PF:1.000 Lamp Flux:3747.63x1 lm		
NAME:Cobra-1200mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.31 lm/W			
MODEL		I _{max} (cd)	27772	S/MH(C0/180)	0.16
NOMINAL POWER(W)	45	LOR(%)	100.0	S/MH(C90/270)	0.24
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	3747.6	η UP, DN(C0-180)	1.0, 34.6
NOMINAL FLUX(lm)	3747.63	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.4, 64.1
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: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-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	371.3	590.6	775.2	821.1	1943	1620	1523	1184	0- 10	1629	1629	43.5, 43.5
20	80.99	110.0	136.1	151.5	332.5	265.1	262.4	195.3	10- 20	1317	2947	78.6, 78.6
30	2.951	16.32	41.62	51.02	86.25	72.40	63.86	43.15	20- 30	443.4	3390	90.5, 90.5
40	0.4067	0.8570	8.287	23.23	34.92	29.97	15.76	1.452	30- 40	162.2	3552	94.8, 94.8
50	0.0094	0.0963	1.092	12.02	17.61	15.00	1.515	0.2097	40- 50	70.97	3623	96.7, 96.7
60	0.0045	0.0083	0.4189	6.733	9.966	8.194	0.5544	0.0213	50- 60	37.84	3661	97.7, 97.7
70	0.0032	0.0045	0.1021	3.362	5.829	4.290	0.1153	0.0055	60- 70	21.39	3683	98.3, 98.3
80	0.0061	0.0068	0.0210	1.073	2.478	1.561	0.0173	0.0045	70- 80	10.30	3693	98.5, 98.5
90	0.0228	0.0158	0.0055	0.0765	0.5733	0.1771	0.0045	0.0058	80- 90	3.186	3696	98.6, 98.6
100	0.0589	0.0409	0.0061	0.0077	0.0138	0.0106	0.0055	0.0151	90-100	0.4079	3697	98.6, 98.6
110	0.1098	0.0787	0.0148	0.0087	0.0081	0.0065	0.0100	0.0386	100-110	0.2504	3697	98.6, 98.6
120	0.1880	0.1364	0.0437	0.0174	0.0093	0.0093	0.0213	0.0761	110-120	0.4185	3697	98.7, 98.7
130	0.3690	0.2716	0.1400	0.0736	0.0155	0.0241	0.0518	0.1385	120-130	0.7751	3698	98.7, 98.7
140	0.8846	0.6077	0.4161	0.3174	0.0477	0.0940	0.1756	0.2953	130-140	1.643	3700	98.7, 98.7
150	2.549	1.502	1.159	1.424	0.2803	0.4293	0.5489	0.6958	140-150	3.850	3703	98.8, 98.8
160	10.01	4.872	4.165	5.474	1.187	1.671	1.586	1.887	150-160	9.219	3713	99.1, 99.1
170	25.66	17.00	16.38	19.05	4.419	6.556	6.567	6.846	160-170	19.78	3732	99.6, 99.6
180	14.75	21.01	22.14	21.98	14.76	21.20	22.13	22.00	170-180	15.18	3748	100, 100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

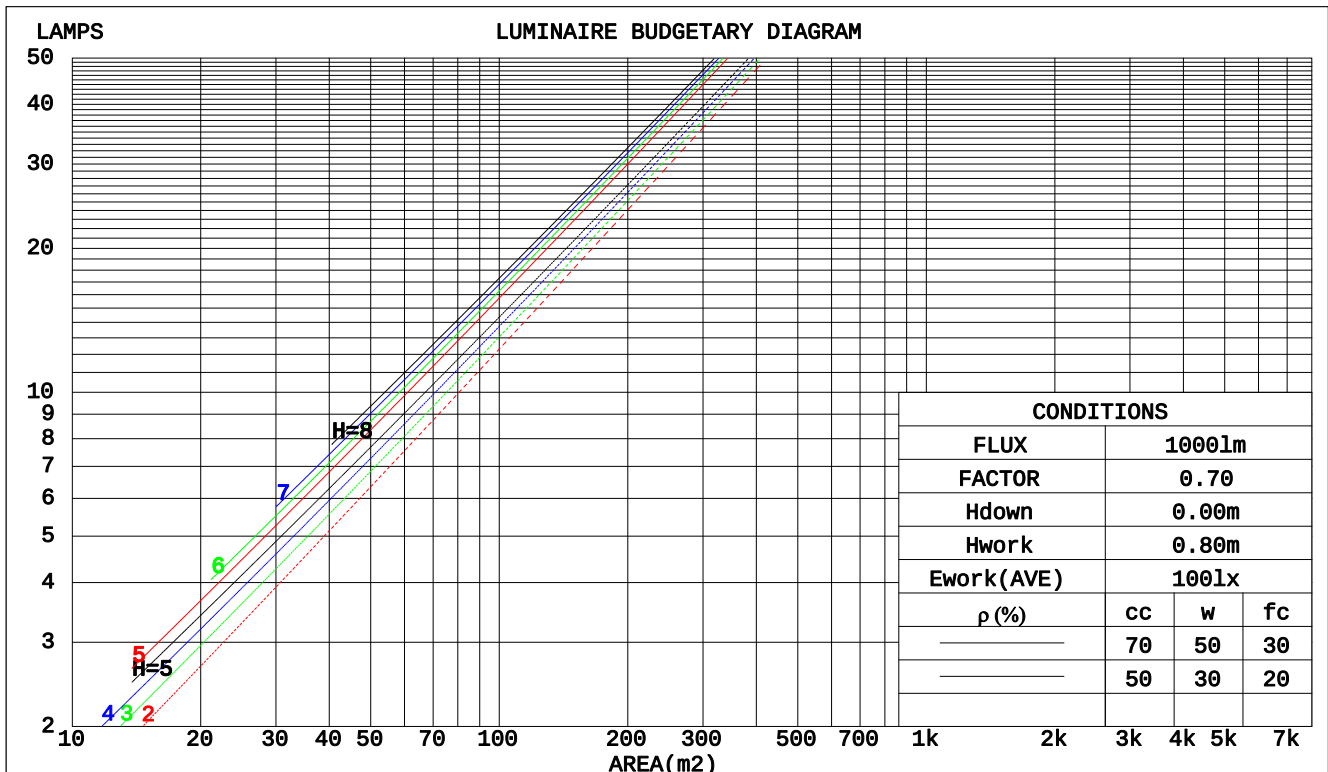
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QIU
 Test Date: 2022-11-01

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-15D-Rev1

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:1.831A P:43.93W PF:1.000 Lamp Flux:3747.63x1 lm		
NAME:Cobra-1200mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 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	1.12	1.11	1.09	1.10	1.08	1.07	1.06	1.05	1.03	1.02	1.01	1.00	.98	.98	.97	.95
2.0	1.07	1.04	1.02	1.05	1.03	1.00	1.02	.99	.98	.99	.97	.96	.96	.95	.94	.92
3.0	1.03	.99	.96	1.01	.98	.95	.98	.96	.93	.96	.94	.92	.94	.92	.90	.89
4.0	.99	.95	.92	.97	.94	.91	.95	.92	.90	.93	.91	.89	.91	.89	.88	.86
5.0	.95	.91	.88	.94	.90	.87	.92	.89	.87	.91	.88	.86	.89	.87	.85	.84
6.0	.92	.88	.85	.91	.87	.85	.90	.86	.84	.88	.85	.83	.87	.85	.83	.82
7.0	.89	.85	.82	.89	.85	.82	.87	.84	.81	.86	.83	.81	.85	.82	.81	.79
8.0	.87	.83	.80	.86	.82	.80	.85	.82	.79	.84	.81	.79	.83	.81	.79	.78
9.0	.84	.80	.78	.84	.80	.78	.83	.80	.77	.82	.79	.77	.81	.79	.77	.76
10.0	.82	.78	.76	.82	.78	.76	.81	.78	.75	.80	.77	.75	.80	.77	.75	.74



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-15D-Rev1

WEC AND CCEC

Test:U:24.00V I:1.831A P:43.93W PF:1.000 Lamp Flux:3747.63x1 lm								
NAME:Cobra-1200mm-3000K-15D-Rev1				TYPE:3000K			WEIGHT:	
DIM.:15 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	.139	.079	.025	.132	.075	.024	.119	.068	.022	.107	.062	.020	.096	.055	.018	
2.0	.129	.071	.022	.123	.068	.021	.112	.062	.019	.102	.057	.018	.092	.052	.016	
3.0	.119	.064	.019	.115	.061	.018	.105	.057	.017	.097	.053	.016	.089	.049	.015	
4.0	.111	.058	.017	.107	.056	.017	.099	.053	.016	.092	.049	.015	.085	.046	.014	
5.0	.104	.053	.015	.101	.052	.015	.094	.049	.014	.088	.046	.014	.082	.044	.013	
6.0	.098	.049	.014	.095	.048	.014	.089	.046	.013	.084	.044	.013	.079	.042	.012	
7.0	.093	.046	.013	.090	.045	.013	.085	.043	.012	.080	.041	.012	.076	.039	.012	
8.0	.088	.043	.012	.086	.042	.012	.081	.041	.012	.077	.039	.011	.073	.038	.011	
9.0	.084	.041	.011	.082	.040	.011	.078	.038	.011	.074	.037	.011	.070	.036	.010	
10.0	.080	.038	.011	.078	.038	.011	.075	.037	.010	.071	.035	.010	.068	.034	.010	

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	.168	.158	.153	.144	.136	.105	.099	.094	.060	.057	.055	.019	.018	.018	
2.0	.161	.143	.128	.138	.123	.111	.095	.085	.077	.055	.050	.045	.017	.016	.015	
3.0	.146	.124	.106	.125	.107	.092	.086	.074	.065	.050	.043	.038	.016	.014	.012	
4.0	.134	.109	.090	.115	.094	.078	.079	.065	.055	.046	.038	.032	.015	.012	.011	
5.0	.123	.096	.077	.106	.083	.067	.073	.058	.047	.042	.034	.028	.014	.011	.009	
6.0	.114	.086	.067	.098	.075	.058	.068	.052	.041	.039	.031	.024	.013	.010	.008	
7.0	.106	.078	.058	.091	.068	.051	.063	.048	.036	.037	.028	.022	.012	.009	.007	
8.0	.100	.071	.052	.086	.062	.045	.059	.043	.032	.034	.026	.019	.011	.008	.006	
9.0	.094	.066	.047	.081	.057	.041	.056	.040	.029	.033	.024	.017	.011	.008	.006	
10.0	.089	.061	.042	.076	.053	.037	.053	.037	.026	.031	.022	.016	.010	.007	.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-15D-Rev1

Uncorrected UGR Table

Test:U:24.00V I:1.831A P:43.93W PF:1.000 Lamp Flux:3747.63x1 lm											
NAME:Cobra-1200mm-3000K-15D-Rev1					TYPE:3000K			WEIGHT:			
DIM.:15 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	3H	-11.9	-11.2	-11.6	-11.1	-10.9	5.9	6.6	6.1	6.7	6.9
	4H	-12.0	-11.4	-11.8	-11.2	-11.0	5.8	6.4	6.0	6.6	6.8
	6H	-12.1	-11.5	-11.8	-11.3	-11.1	5.7	6.3	6.0	6.5	6.7
	8H	-12.2	-11.6	-11.9	-11.4	-11.1	5.6	6.1	5.9	6.4	6.7
	8H	-12.2	-11.7	-11.9	-11.4	-11.1	5.6	6.1	5.9	6.3	6.6
	12H	-12.2	-11.6	-11.8	-11.3	-11.0	5.5	6.0	5.8	6.3	6.6
4H	2H	-12.1	-11.5	-11.8	-11.3	-11.0	5.7	6.3	6.0	6.5	6.7
	3H	-12.2	-11.7	-11.9	-11.5	-11.2	5.5	6.0	5.8	6.3	6.6
	4H	-12.3	-11.9	-12.0	-11.6	-11.2	5.4	5.9	5.8	6.2	6.5
	6H	-12.4	-12.0	-12.0	-11.6	-11.3	5.3	5.7	5.7	6.1	6.4
	8H	-12.4	-12.0	-11.9	-11.6	-11.2	5.2	5.6	5.7	6.0	6.4
	12H	-12.2	-11.8	-11.8	-11.5	-11.0	5.2	5.5	5.6	5.9	6.3
8H	4H	-12.5	-12.1	-12.1	-11.7	-11.3	5.2	5.6	5.7	6.0	6.4
	6H	-12.5	-12.2	-12.1	-11.8	-11.3	5.1	5.4	5.6	5.9	6.3
	8H	-12.4	-12.2	-12.0	-11.7	-11.3	5.1	5.3	5.5	5.8	6.3
	12H	-12.1	-11.9	-11.6	-11.4	-10.9	5.0	5.2	5.5	5.7	6.2
12H	4H	-12.5	-12.2	-12.1	-11.8	-11.4	5.2	5.5	5.6	5.9	6.3
	6H	-12.6	-12.3	-12.1	-11.8	-11.4	5.1	5.3	5.5	5.8	6.3
	8H	-12.5	-12.2	-12.0	-11.8	-11.3	5.0	5.2	5.5	5.7	6.2
Variations with the observer position at spacings:											
S = 1.0H	+ 2.9 / - 8.1					+ 6.8 / -15.9					
1.5H	+ 4.3 / - 8.1					+ 9.4 / -19.6					
2.0H	+ 1.3 / - 0.8					+ 8.2 / -15.8					

CIE Pub.117 Corrected 3748 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.6)

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-15D-Rev1

UTILIZATION FACTORS TABLE

Test:U:24.00V I:1.831A P:43.93W PF:1.000 Lamp Flux:3747.63x1 lm		
NAME:Cobra-1200mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

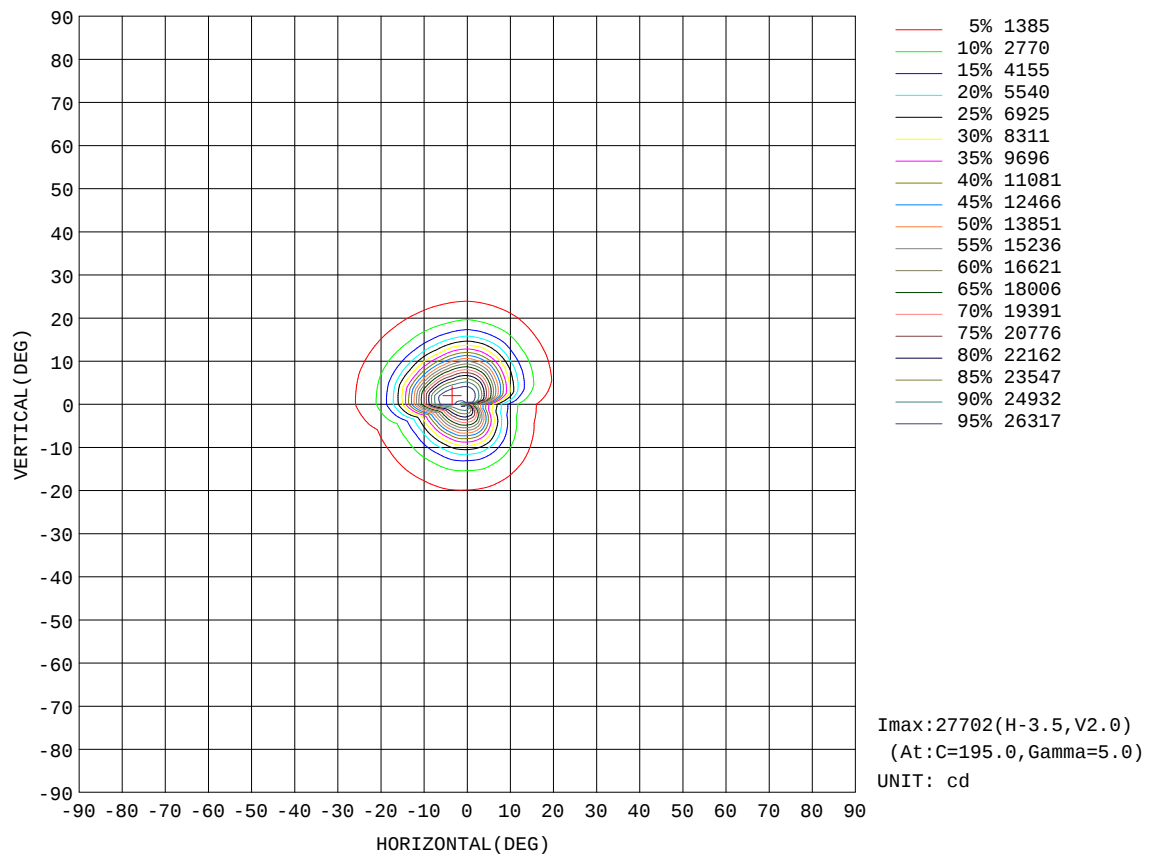
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	88	82	79	88	82	79	87	82	78	75
0.80	96	90	86	95	90	86	94	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: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-15D-Rev1

ISOCANDELA DIAGRAM

Test:U:24.00V I:1.831A P:43.93W PF:1.000 Lamp Flux:3747.63x1 lm		
NAME:Cobra-1200mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



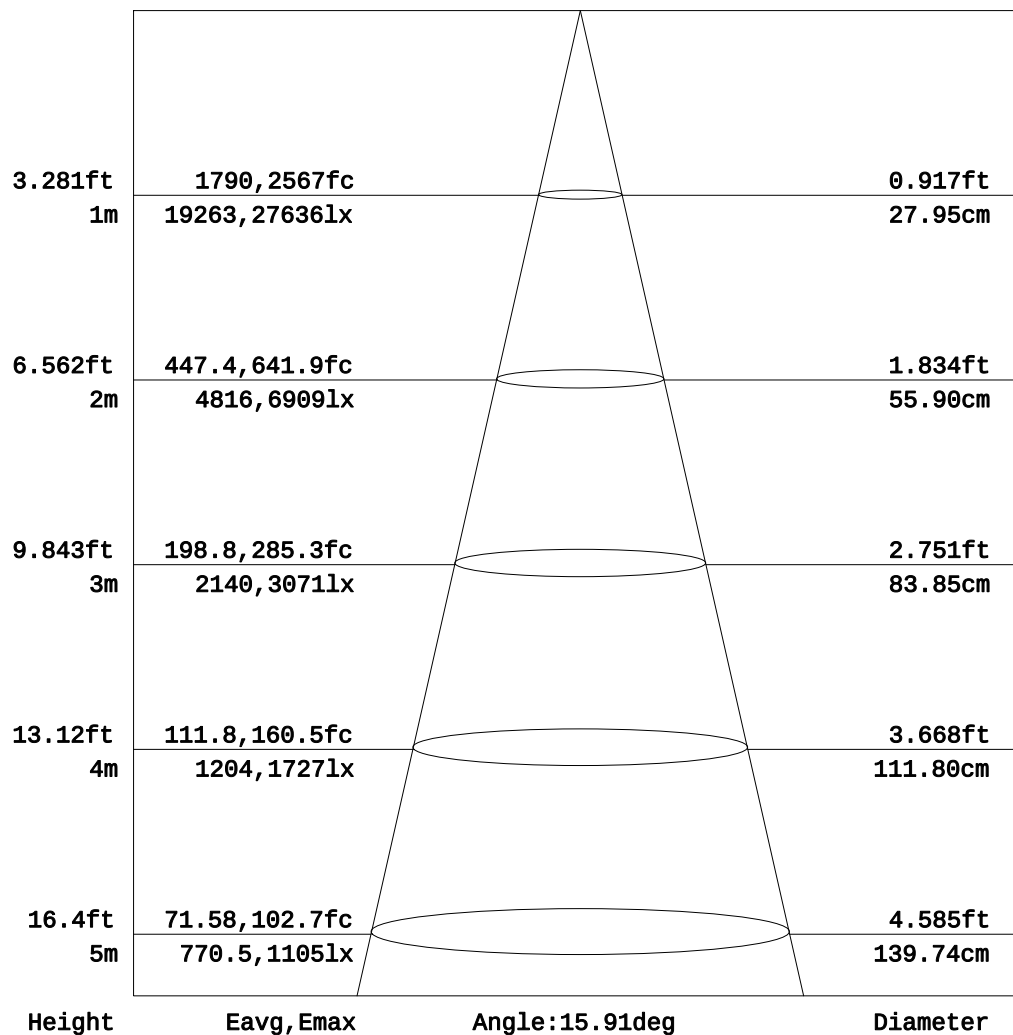
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2022-11-01

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-15D-Rev1

AAI Figure

Test:U:24.00V I:1.831A P:43.93W PF:1.000 Lamp Flux:3747.63x1 lm		
NAME:Cobra-1200mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:1195 lm



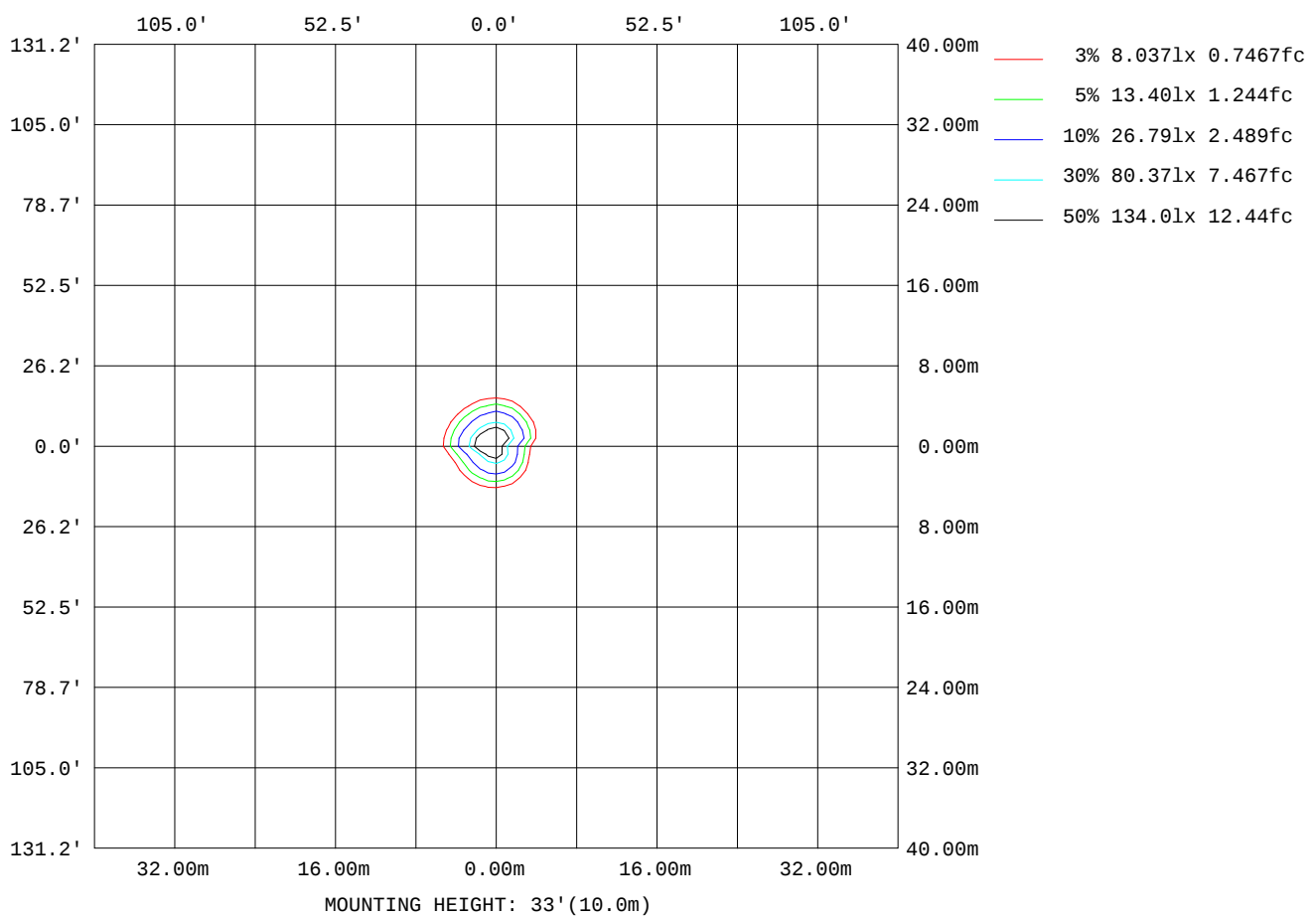
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-15D-Rev1

ISOLUX DIAGRAM

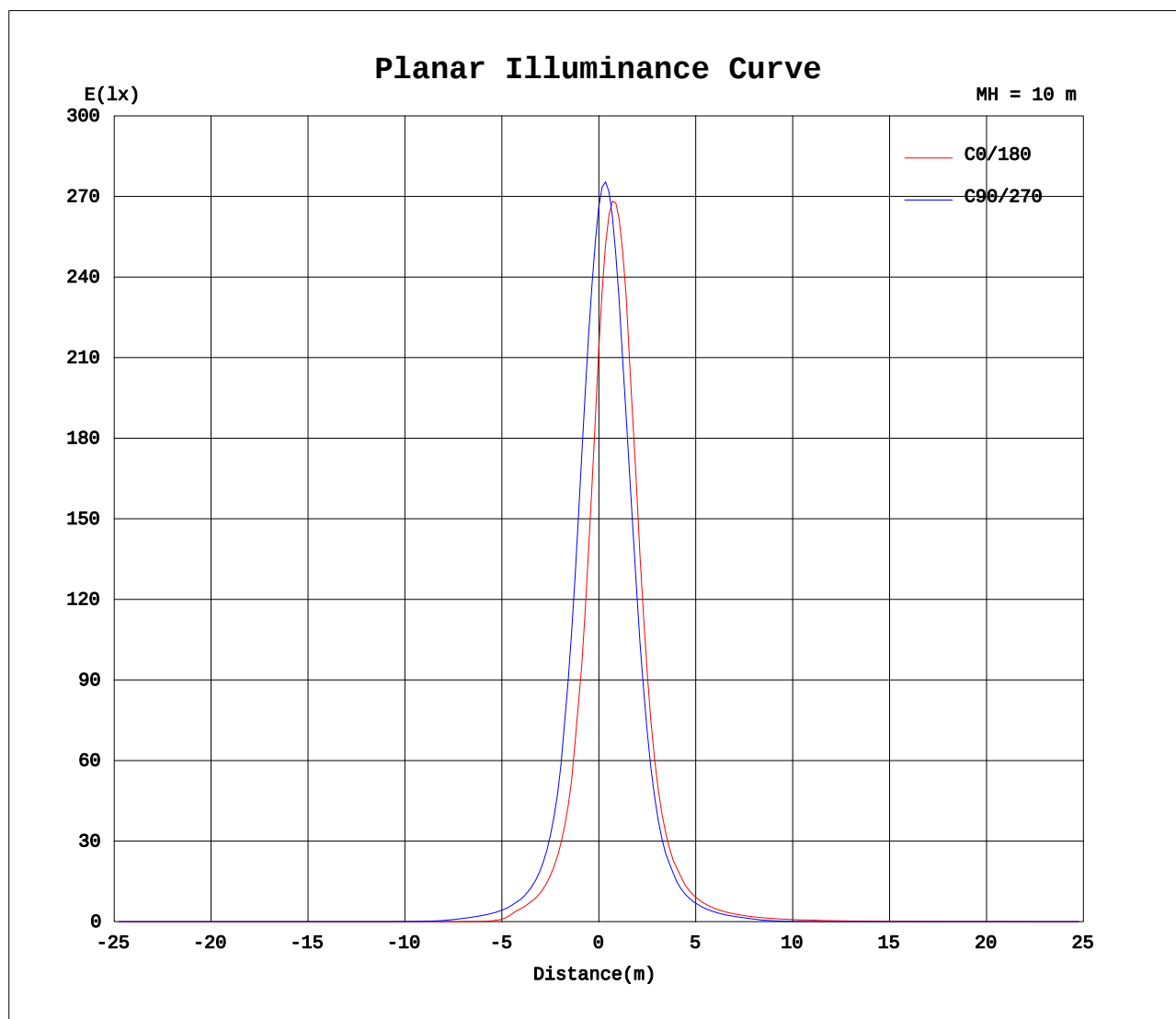
Test:U:24.00V I:1.831A P:43.93W PF:1.000 Lamp Flux:3747.63x1 lm		
NAME:Cobra-1200mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



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
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Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.276
Humidity:65.0%
Test Distance:6.826m [K=1.0000]
Remarks: Cobra-1200mm-3000K-15D-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-15D-Rev1

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:1.831A P:43.93W PF:1.000 Lamp Flux:3747.63x1 lm																		
NAME:Cobra-1200mm-3000K-15D-Rev1									TYPE:3000K					WEIGHT:				
DIM.:15 DEG									SPEC.:1200MM					SERIAL No.:				
MFR.:									SUR.:					PROTECTION ANGLE:				

Table--1

UNIT: ×10cd

C(°)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2130	2154	2408	2558	2641	2662	2660	2678	2676	2684	2688	2692	2130	2154	2408	2558	2641	2662	2660
5	968	982	1233	1482	1667	1746	1760	1802	1832	1891	1986	2112	2707	2777	2721	2635	2551	2524	2513
10	371	377	472	591	716	749	775	784	794	821	886	968	1943	2018	1788	1620	1513	1504	1523
15	162	163	197	246	272	293	296	308	307	324	336	375	839	896	752	689	619	616	643
20	81.0	79.2	93.3	110	124	133	136	143	144	151	156	172	333	339	300	265	257	246	262
25	27.7	31.5	43.3	56.6	64.2	69.3	72.2	77.1	80.4	82.9	87.0	92.7	156	157	142	127	120	118	118
30	2.95	3.16	7.40	16.3	27.0	38.2	41.6	45.6	48.2	51.0	52.8	56.4	86.3	88.0	79.6	72.4	68.0	65.2	63.9
35	0.88	0.93	1.26	2.14	4.64	12.6	23.3	28.4	31.1	33.5	34.7	36.7	53.2	53.4	49.8	45.2	42.0	39.0	36.6
40	0.41	0.45	0.62	0.86	1.23	2.51	8.29	18.1	21.0	23.2	24.1	25.4	34.9	35.0	32.8	30.0	27.3	24.3	15.8
45	0.03	0.04	0.17	0.46	0.71	1.07	2.23	9.23	14.6	16.5	17.4	18.3	24.4	24.3	22.8	20.9	18.7	13.5	4.33
50	0.01	0.01	0.04	0.10	0.34	0.66	1.09	3.47	10.2	12.0	12.9	13.5	17.6	17.6	16.5	15.0	12.8	5.26	1.51
55	0.01	0.00	0.01	0.04	0.09	0.34	0.70	1.45	6.54	8.97	9.77	10.3	13.1	13.1	12.3	11.0	8.35	1.93	0.92
60	0.00	0.00	0.01	0.01	0.03	0.11	0.42	0.84	3.59	6.73	7.48	7.95	9.97	9.97	9.35	8.19	4.55	1.05	0.55
65	0.00	0.00	0.01	0.00	0.01	0.04	0.22	0.56	1.83	4.92	5.64	6.08	7.73	7.70	7.15	6.07	2.20	0.68	0.27
70	0.00	0.01	0.01	0.00	0.01	0.01	0.10	0.35	0.93	3.36	3.90	4.18	5.83	5.83	5.31	4.29	1.10	0.43	0.12
75	0.00	0.01	0.01	0.01	0.01	0.01	0.05	0.21	0.50	2.06	2.35	2.64	3.89	3.88	3.53	2.76	0.60	0.25	0.05
80	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.13	0.29	1.07	1.28	1.51	2.48	2.41	2.08	1.56	0.36	0.14	0.02
85	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.07	0.15	0.38	0.50	0.66	1.39	1.32	1.05	0.68	0.20	0.08	0.01
90	0.02	0.03	0.02	0.02	0.01	0.01	0.01	0.02	0.04	0.08	0.11	0.18	0.57	0.52	0.36	0.18	0.08	0.03	0.00
95	0.04	0.04	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.15	0.12	0.07	0.02	0.01	0.01	0.00
100	0.06	0.06	0.05	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
105	0.08	0.09	0.07	0.06	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
110	0.11	0.11	0.09	0.08	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
115	0.14	0.14	0.12	0.10	0.06	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
120	0.19	0.18	0.16	0.14	0.09	0.06	0.04	0.04	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
125	0.26	0.25	0.22	0.19	0.15	0.10	0.08	0.07	0.05	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.03
130	0.37	0.35	0.31	0.27	0.23	0.18	0.14	0.12	0.10	0.07	0.05	0.03	0.02	0.01	0.02	0.02	0.03	0.04	0.05
135	0.56	0.54	0.47	0.41	0.35	0.30	0.25	0.22	0.19	0.15	0.11	0.08	0.02	0.02	0.03	0.05	0.06	0.07	0.09
140	0.88	0.86	0.72	0.61	0.52	0.46	0.42	0.42	0.38	0.32	0.26	0.20	0.05	0.05	0.06	0.09	0.12	0.15	0.18
145	1.44	1.42	1.14	0.93	0.79	0.70	0.69	0.76	0.79	0.71	0.64	0.52	0.11	0.11	0.14	0.20	0.24	0.29	0.32
150	2.55	2.47	1.87	1.50	1.27	1.15	1.16	1.33	1.46	1.42	1.37	1.23	0.28	0.28	0.33	0.43	0.49	0.54	0.55
155	4.94	4.63	3.33	2.62	2.19	2.04	2.09	2.43	2.72	2.72	2.64	2.38	0.62	0.63	0.70	0.88	0.94	0.95	0.91
160	10.0	9.08	6.17	4.87	4.22	3.98	4.17	4.80	5.42	5.47	5.30	4.75	1.19	1.27	1.39	1.67	1.71	1.68	1.59
165	19.0	15.6	10.8	9.48	8.69	8.39	8.73	9.73	10.7	11.0	10.8	9.82	2.22	2.37	2.52	3.23	3.30	3.24	3.06
170	25.7	19.7	16.6	17.0	16.5	16.1	16.4	17.2	18.5	19.0	19.2	18.1	4.42	4.64	5.06	6.56	6.82	6.80	6.57
175	22.2	18.3	21.0	22.9	23.3	23.0	23.1	23.4	24.0	24.4	24.7	24.3	8.43	8.93	10.0	12.9	13.8	14.0	13.9
180	14.8	14.6	19.0	21.0	22.4	22.3	22.1	22.1	22.2	22.0	22.0	22.1	14.8	14.7	17.3	21.2	22.2	22.3	22.1

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-15D-Rev1

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:1.831A P:43.93W PF:1.000 Lamp Flux:3747.63x1 lm		
NAME:Cobra-1200mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:1200MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: ×10cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	2678	2676	2684	2688	2692														
5	2473	2407	2275	2116	1935														
10	1455	1365	1184	1021	869														
15	610	566	472	401	327														
20	241	235	195	171	144														
25	112	106	93.2	83.7	72.1														
30	59.7	55.2	43.1	31.0	20.2														
35	26.6	16.9	9.00	4.03	2.33														
40	6.64	2.57	1.45	1.06	0.79														
45	1.60	1.03	0.73	0.54	0.37														
50	0.91	0.59	0.21	0.10	0.03														
55	0.50	0.15	0.07	0.02	0.01														
60	0.15	0.06	0.02	0.01	0.01														
65	0.05	0.02	0.01	0.01	0.01														
70	0.02	0.01	0.01	0.01	0.00														
75	0.01	0.00	0.00	0.01	0.00														
80	0.01	0.00	0.00	0.01	0.00														
85	0.01	0.01	0.00	0.01	0.01														
90	0.01	0.01	0.01	0.01	0.01														
95	0.01	0.01	0.01	0.01	0.01														
100	0.01	0.01	0.02	0.02	0.02														
105	0.01	0.01	0.03	0.03	0.04														
110	0.01	0.02	0.04	0.05	0.05														
115	0.02	0.03	0.06	0.07	0.07														
120	0.03	0.05	0.08	0.09	0.10														
125	0.04	0.08	0.10	0.12	0.12														
130	0.08	0.12	0.14	0.15	0.16														
135	0.14	0.18	0.20	0.21	0.22														
140	0.24	0.27	0.30	0.31	0.33														
145	0.39	0.42	0.45	0.48	0.53														
150	0.60	0.64	0.70	0.76	0.85														
155	0.95	1.01	1.11	1.23	1.42														
160	1.63	1.70	1.89	2.12	2.50														
165	3.08	3.18	3.50	3.96	4.72														
170	6.54	6.54	6.85	7.47	8.81														
175	13.8	13.6	13.5	13.5	14.5														
180	22.1	22.2	22.0	22.0	22.1														

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-15D-Rev1