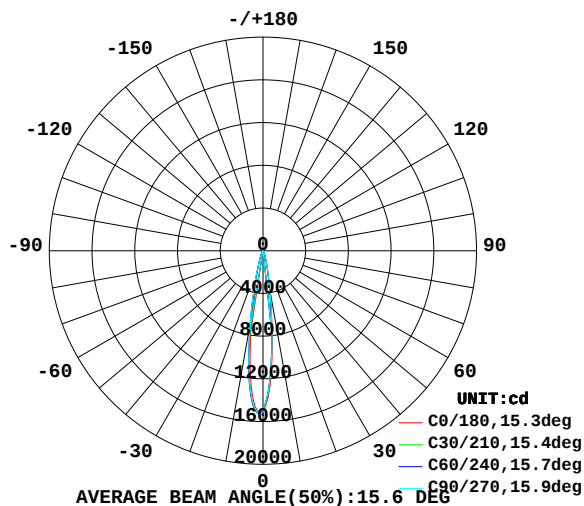


LUMINAIRE PHOTOMETRIC TEST REPORT

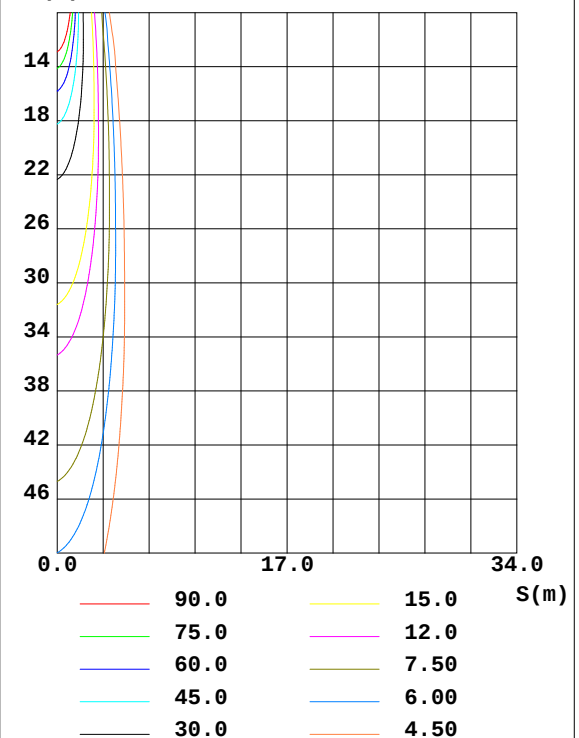
Test:U:24.00V I:0.9298A P:22.31W PF:1.000 Lamp Flux:1798.85x1 lm		
NAME:Cobra-610mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:610MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.62 lm/W			
MODEL		I _{max} (cd)	15194	S/MH(C0/180)	0.23
NOMINAL POWER(W)	22.5	LOR(%)	100.0	S/MH(C90/270)	0.22
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1798.9	η UP, DN(C0-180)	1.0, 41.0
NOMINAL FLUX(lm)	1798.85	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.4, 57.6
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: 2023-07-04

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-610mm-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	375.3	357.3	366.2	409.8	597.5	664.4	696.2	572.9	0- 10	865.7	865.7	48.1, 48.1
20	65.20	64.08	68.79	74.96	94.79	97.50	98.89	87.03	10- 20	571.2	1437	79.9, 79.9
30	10.06	12.32	21.60	25.72	29.93	29.28	26.59	21.66	20- 30	200.7	1638	91, 91
40	0.3342	0.4846	3.459	11.18	12.81	12.71	7.763	0.6005	30- 40	72.66	1710	95.1, 95.1
50	0.0058	0.0505	0.4839	5.731	6.709	6.517	0.6119	0.1327	40- 50	30.92	1741	96.8, 96.8
60	0.0026	0.0038	0.1841	3.233	3.910	3.677	0.2455	0.0126	50- 60	16.50	1758	97.7, 97.7
70	0.0013	0.0019	0.0410	1.658	2.259	1.982	0.0687	0.0029	60- 70	9.357	1767	98.2, 98.2
80	0.0019	0.0036	0.0081	0.5347	0.9949	0.7403	0.0125	0.0023	70- 80	4.651	1772	98.5, 98.5
90	0.0077	0.0077	0.0026	0.0852	0.1831	0.1165	0.0023	0.0023	80- 90	1.427	1773	98.6, 98.6
100	0.0222	0.0200	0.0026	0.0132	0.0116	0.0226	0.0029	0.0061	90-100	0.2747	1773	98.6, 98.6
110	0.0435	0.0381	0.0051	0.0048	0.0064	0.0077	0.0048	0.0183	100-110	0.1322	1773	98.6, 98.6
120	0.0727	0.0668	0.0126	0.0065	0.0064	0.0055	0.0110	0.0373	110-120	0.1918	1774	98.6, 98.6
130	0.1346	0.1292	0.0562	0.0259	0.0113	0.0103	0.0245	0.0695	120-130	0.3378	1774	98.6, 98.6
140	0.3137	0.3002	0.2386	0.1432	0.0453	0.0486	0.0942	0.1522	130-140	0.7523	1775	98.7, 98.7
150	0.8306	0.7685	0.6651	0.7053	0.2703	0.2720	0.3361	0.3871	140-150	1.923	1777	98.8, 98.8
160	2.992	2.572	2.245	2.712	0.9476	0.9683	0.9437	1.037	150-160	4.554	1781	99, 99
170	10.27	7.752	7.746	10.07	3.621	3.691	3.493	3.665	160-170	9.818	1791	99.6, 99.6
180	9.048	10.47	11.64	11.68	9.082	10.47	11.66	11.67	170-180	7.845	1799	100, 100
DEG	LUMINOUS INTENSITY: ×10cd									UNIT: lm		

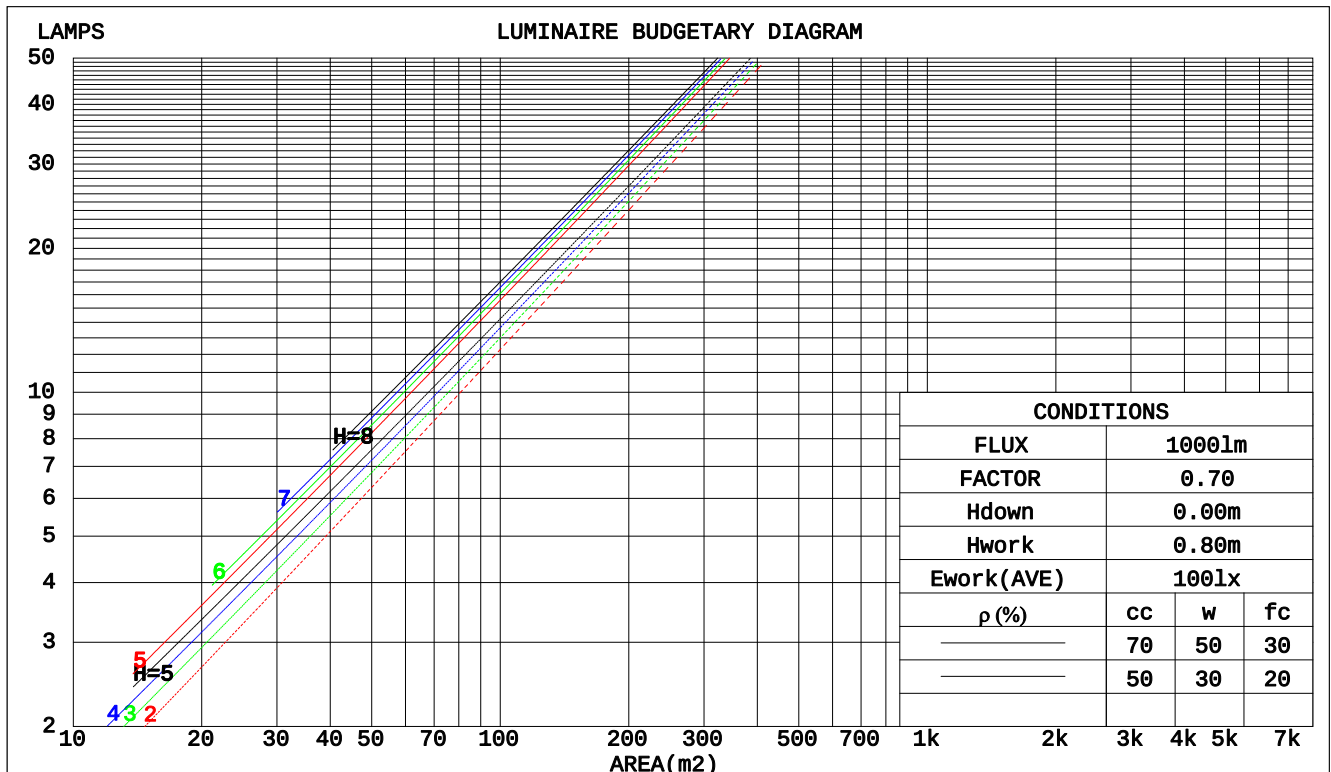
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QIU
 Test Date: 2023-07-04

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-610mm-3000K-15D-Rev1

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.9298A P:22.31W PF:1.000 Lamp Flux:1798.85x1 lm		
NAME:Cobra-610mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:610MM	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	1.05	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	.97	.94	.93	.94	.93	.91	.90
4.0	.99	.95	.93	.98	.95	.92	.96	.93	.91	.94	.92	.90	.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	.89	.86	.91	.88	.85	.89	.87	.85	.88	.86	.84	.83
7.0	.90	.86	.84	.90	.86	.83	.89	.85	.83	.87	.85	.82	.86	.84	.82	.81
8.0	.88	.84	.81	.88	.84	.81	.86	.83	.81	.86	.83	.81	.85	.82	.80	.79
9.0	.86	.82	.79	.85	.82	.79	.85	.81	.79	.84	.81	.79	.83	.80	.78	.78
10.0	.84	.80	.78	.84	.80	.78	.83	.80	.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:2023-07-04

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-610mm-3000K-15D-Rev1

WEC AND CCEC

Test:U:24.00V I:0.9298A P:22.31W PF:1.000 Lamp Flux:1798.85x1 lm								
NAME:Cobra-610mm-3000K-15D-Rev1				TYPE:3000K			WEIGHT:	
DIM.:15 DEG				SPEC.:610MM			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	.024	.129	.073	.023	.115	.066	.021	.103	.060	.019	.092	.053	.017	
2.0	.125	.069	.021	.119	.066	.020	.108	.060	.019	.098	.055	.017	.089	.050	.016	
3.0	.116	.062	.018	.111	.059	.018	.102	.055	.017	.093	.051	.016	.085	.047	.015	
4.0	.108	.056	.016	.104	.054	.016	.096	.051	.015	.089	.048	.014	.082	.045	.014	
5.0	.101	.051	.015	.097	.050	.015	.091	.047	.014	.084	.045	.013	.079	.042	.013	
6.0	.095	.048	.014	.092	.046	.013	.086	.044	.013	.081	.042	.012	.075	.040	.012	
7.0	.089	.044	.013	.087	.043	.012	.082	.041	.012	.077	.039	.011	.073	.038	.011	
8.0	.085	.041	.012	.082	.041	.011	.078	.039	.011	.074	.037	.011	.070	.036	.010	
9.0	.080	.039	.011	.078	.038	.011	.074	.037	.010	.071	.035	.010	.067	.034	.010	
10.0	.077	.037	.010	.075	.036	.010	.071	.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	.055	.050	.046	.017	.016	.015		
3.0	.146	.124	.107	.125	.107	.093	.086	.075	.065	.050	.044	.038	.016	.014	.013		
4.0	.133	.109	.091	.114	.094	.079	.079	.066	.055	.045	.038	.033	.015	.013	.011		
5.0	.122	.097	.078	.105	.084	.068	.072	.058	.048	.042	.034	.028	.014	.011	.009		
6.0	.113	.087	.068	.097	.075	.059	.067	.053	.042	.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	.072	.053	.085	.062	.046	.059	.044	.033	.034	.026	.020	.011	.008	.006		
9.0	.093	.066	.048	.080	.057	.042	.055	.040	.029	.032	.024	.018	.010	.008	.006		
10.0	.088	.061	.043	.076	.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:2023-07-04

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-610mm-3000K-15D-Rev1

Uncorrected UGR Table

Test:U:24.00V I:0.9298A P:22.31W PF:1.000 Lamp Flux:1798.85x1 lm											
NAME:Cobra-610mm-3000K-15D-Rev1					TYPE:3000K			WEIGHT:			
DIM.:15 DEG					SPEC.:610MM			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		-4.9	-4.3	-4.7	-4.2	-4.0	6.9	7.5	7.1	7.7	7.9
	3H	-5.1	-4.5	-4.8	-4.3	-4.1	6.8	7.3	7.0	7.5	7.8
	4H	-5.2	-4.6	-4.9	-4.4	-4.2	6.7	7.2	7.0	7.5	7.7
	6H	-5.3	-4.7	-5.0	-4.5	-4.2	6.6	7.1	6.9	7.4	7.6
	8H	-5.3	-4.8	-5.0	-4.5	-4.3	6.5	7.1	6.9	7.3	7.6
	12H	-5.3	-4.9	-5.0	-4.6	-4.3	6.5	7.0	6.8	7.3	7.6
4H	2H	-5.2	-4.6	-4.9	-4.4	-4.2	6.7	7.2	7.0	7.5	7.7
	3H	-5.3	-4.9	-5.0	-4.6	-4.3	6.5	7.0	6.8	7.3	7.6
	4H	-5.4	-5.0	-5.1	-4.7	-4.4	6.4	6.8	6.8	7.2	7.5
	6H	-5.5	-5.1	-5.2	-4.8	-4.4	6.3	6.7	6.7	7.0	7.4
	8H	-5.6	-5.2	-5.2	-4.9	-4.5	6.2	6.6	6.6	7.0	7.4
	12H	-5.6	-5.3	-5.2	-4.9	-4.5	6.2	6.5	6.6	6.9	7.3
8H	4H	-5.6	-5.2	-5.2	-4.9	-4.5	6.2	6.6	6.6	7.0	7.4
	6H	-5.7	-5.4	-5.3	-5.0	-4.6	6.1	6.4	6.6	6.8	7.3
	8H	-5.8	-5.5	-5.3	-5.1	-4.6	6.1	6.3	6.5	6.8	7.2
	12H	-5.8	-5.6	-5.3	-5.1	-4.6	6.0	6.2	6.5	6.7	7.2
12H	4H	-5.7	-5.3	-5.2	-4.9	-4.5	6.2	6.5	6.6	6.9	7.3
	6H	-5.8	-5.5	-5.3	-5.1	-4.6	6.1	6.3	6.5	6.8	7.2
	8H	-5.8	-5.6	-5.3	-5.1	-4.6	6.0	6.2	6.5	6.7	7.2
Variations with the observer position at spacings:											
S = 1.0H		+ 2.9 / -12.1				+ 6.9 / -17.2					
1.5H		+ 5.3 / -12.7				+ 9.6 / -20.1					
2.0H		+ 7.3 / - 5.1				+ 7.4 / -15.5					

CIE Pub.117 Corrected 1799 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:2023-07-04

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.06.30.15

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.9298A P:22.31W PF:1.000 Lamp Flux:1798.85x1 lm		
NAME:Cobra-610mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:610MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

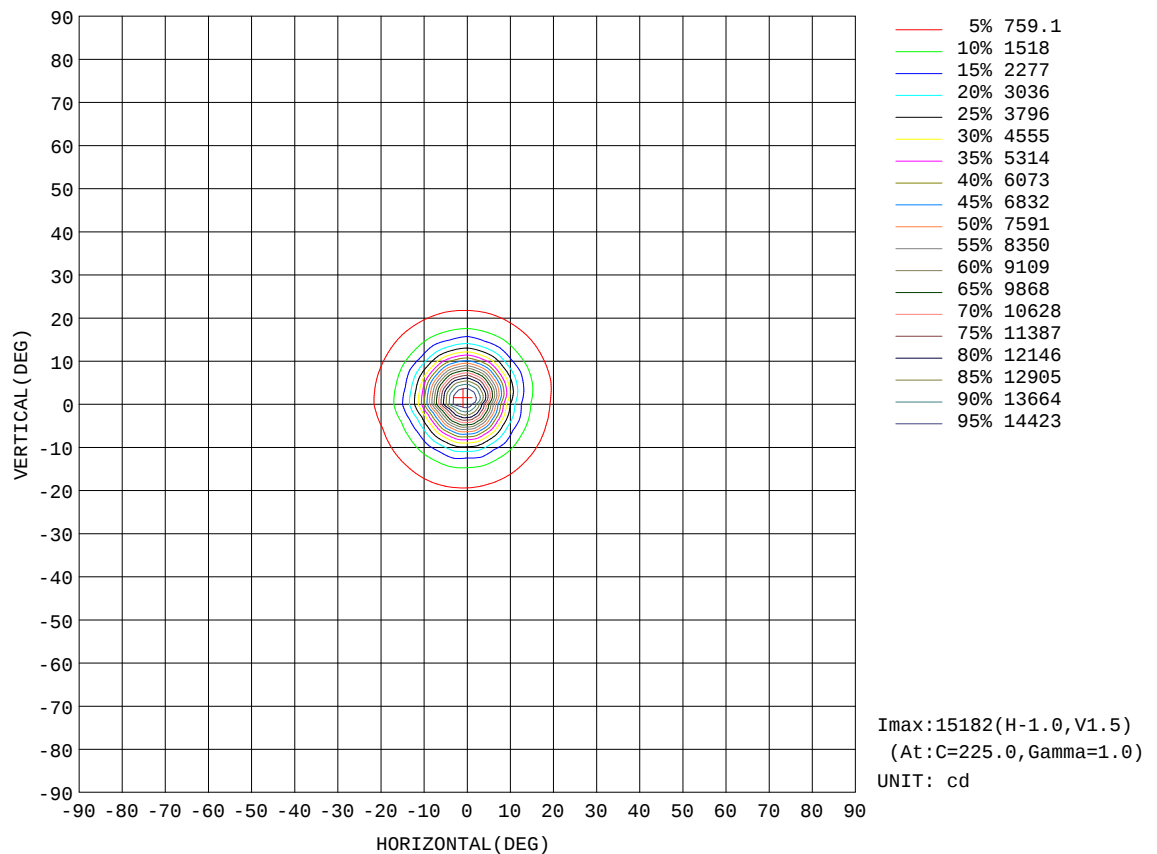
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	82	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	86	94	89	86	82
1.00	100	94	91	99	94	91	97	94	90	86
1.25	104	99	95	102	98	95	100	97	94	90
1.50	106	102	98	105	101	98	102	99	97	92
2.00	109	105	101	107	103	101	104	101	99	93
2.50	110	106	104	108	105	103	105	103	101	94
3.00	112	108	106	110	107	105	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:2023-07-04

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-610mm-3000K-15D-Rev1

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.9298A P:22.31W PF:1.000 Lamp Flux:1798.85x1 lm		
NAME:Cobra-610mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:610MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



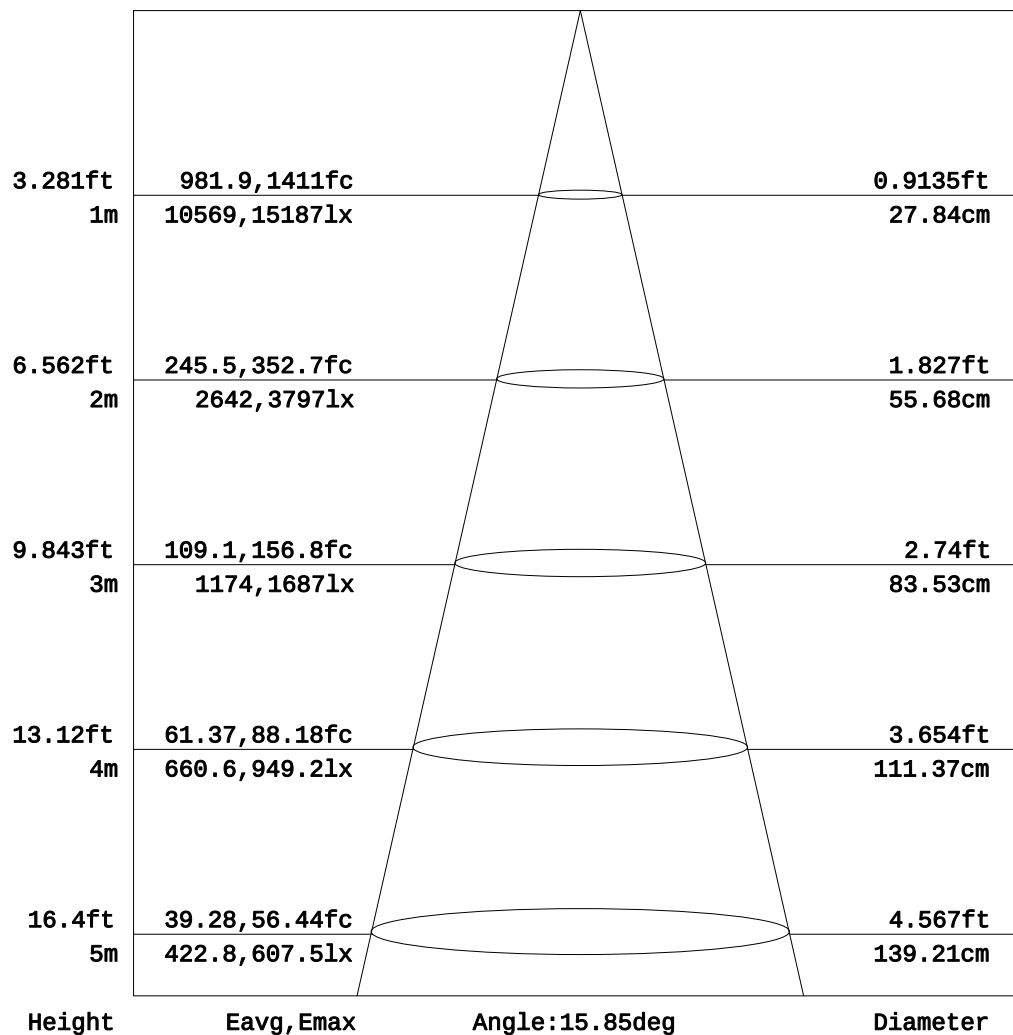
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-07-04

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-610mm-3000K-15D-Rev1

AAI Figure

Test:U:24.00V I:0.9298A P:22.31W PF:1.000 Lamp Flux:1798.85x1 lm		
NAME:Cobra-610mm-3000K-15D-Rev1	TYPE:3000K	WEIGHT:
DIM.:15 DEG	SPEC.:610MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Flux out:655.8 lm



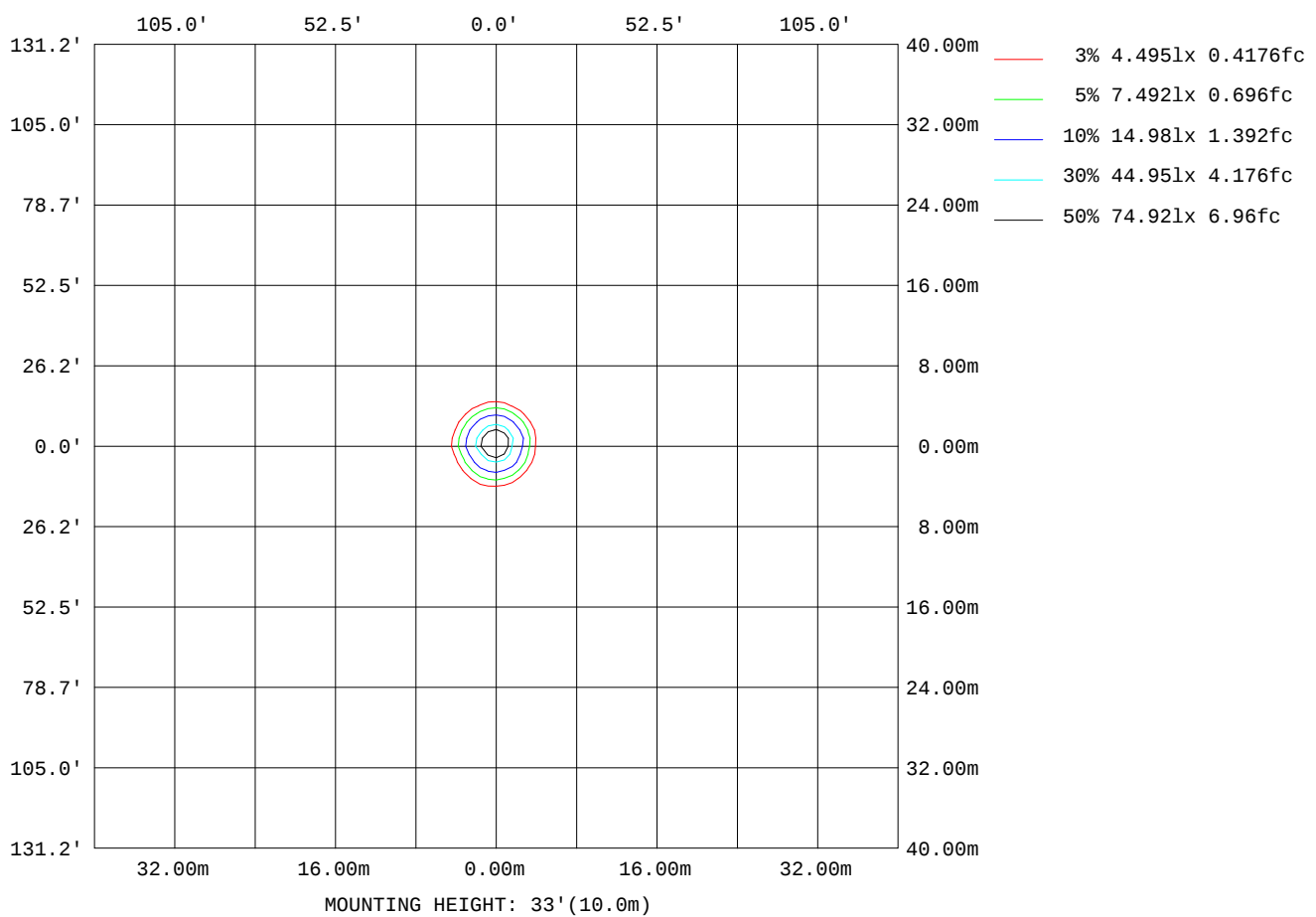
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-07-04

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-610mm-3000K-15D-Rev1

ISOLUX DIAGRAM

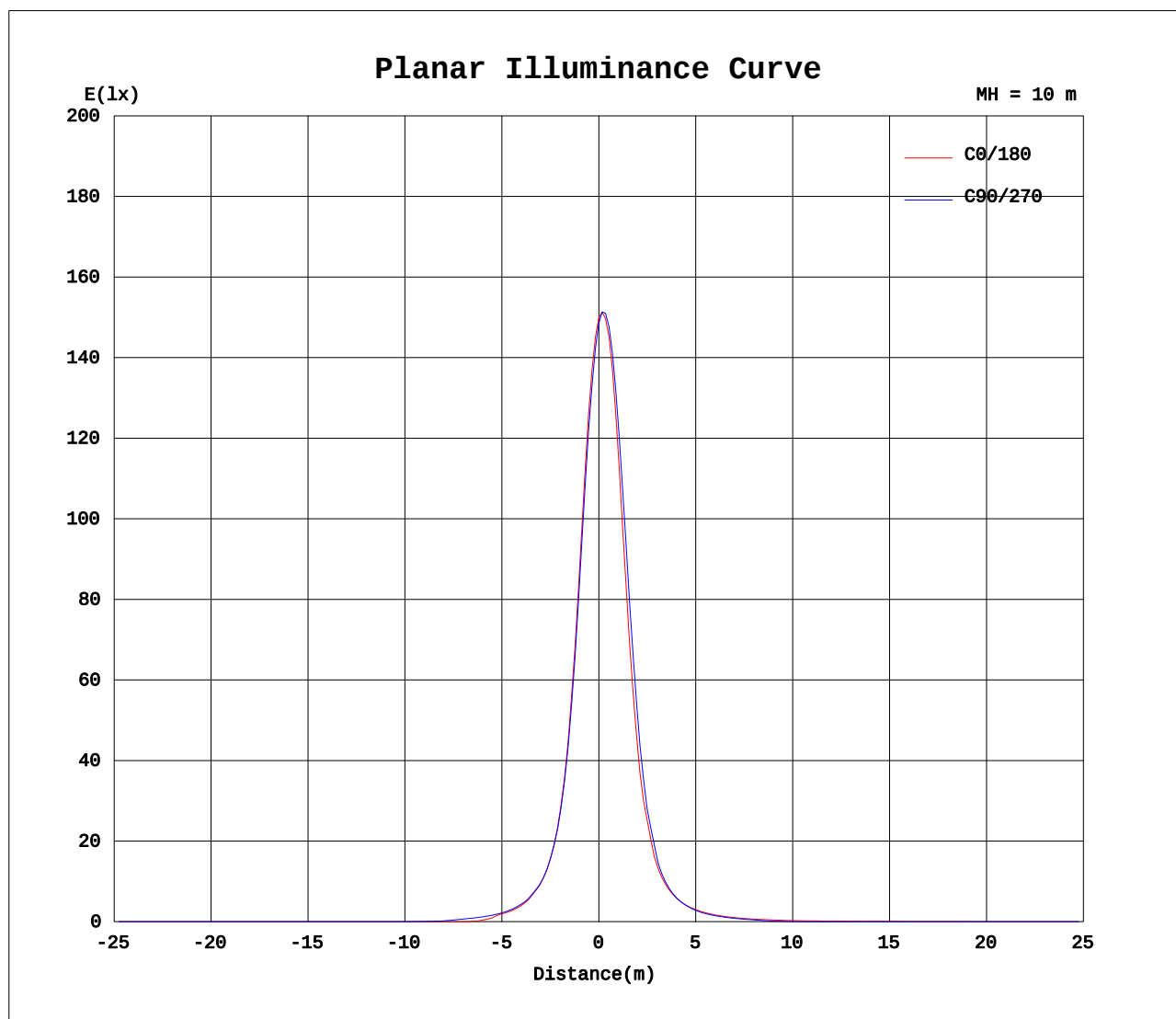
Test:U:24.00V I:0.9298A P:22.31W PF:1.000 Lamp Flux:1798.85x1 lm		
NAME:Cobra-610mm-3000K-15D-Rev1	TYPE: 3000K	WEIGHT:
DIM.:15 DEG	SPEC.:610MM	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QIU
Test Date:2023-07-04

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-610mm-3000K-15D-Rev1

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QIU
Test Date: 2023-07-04

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-610mm-3000K-15D-Rev1

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.9298A P:22.31W PF:1.000 Lamp Flux:1798.85x1 lm																		
NAME:Cobra-610mm-3000K-15D-Rev1									TYPE:3000K					WEIGHT:				
DIM.:15 DEG									SPEC.:610MM					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	1498	1497	1489	1493	1486	1492	1485	1491	1488	1493	1492	1495	1498	1497	1489	1493	1486	1492	1485
5	985	974	939	952	935	960	951	986	986	1030	1047	1111	1275	1292	1328	1331	1349	1332	1333
10	375	367	348	357	352	370	366	386	385	410	420	463	597	613	657	664	699	688	696
15	144	141	136	139	138	144	144	151	152	159	162	174	229	222	247	238	261	245	261
20	65.2	64.4	62.4	64.1	64.2	67.4	68.8	72.5	74.4	75.0	77.7	79.5	94.8	94.3	98.0	97.5	101	98.2	98.9
25	33.3	33.2	32.7	33.7	34.2	35.9	37.0	40.8	40.9	41.7	41.9	43.5	50.0	49.5	50.0	49.5	50.2	48.8	48.3
30	10.1	8.07	10.4	12.3	16.8	20.4	21.6	23.5	24.9	25.7	25.8	26.6	29.9	29.6	29.8	29.3	29.3	27.9	26.6
35	0.85	0.85	0.90	1.30	2.37	5.80	12.5	14.4	15.6	16.4	16.7	17.0	19.1	18.9	19.3	18.7	18.6	16.8	15.7
40	0.33	0.35	0.39	0.48	0.59	0.99	3.46	9.19	10.4	11.2	11.4	11.7	12.8	12.8	13.0	12.7	12.2	10.9	7.76
45	0.14	0.17	0.20	0.27	0.36	0.49	0.86	4.17	7.13	7.89	8.10	8.32	9.11	9.11	9.25	8.97	8.41	6.59	1.91
50	0.01	0.01	0.03	0.05	0.18	0.32	0.48	1.43	4.94	5.73	5.95	6.15	6.71	6.71	6.77	6.52	5.94	2.55	0.61
55	0.00	0.00	0.01	0.02	0.04	0.15	0.32	0.59	3.05	4.27	4.49	4.65	5.06	5.05	5.07	4.85	4.09	0.92	0.39
60	0.00	0.00	0.00	0.00	0.02	0.05	0.18	0.39	1.51	3.23	3.45	3.60	3.91	3.90	3.89	3.68	2.42	0.45	0.25
65	0.00	0.00	0.00	0.00	0.01	0.01	0.09	0.25	0.74	2.40	2.62	2.77	3.02	3.02	2.98	2.77	1.22	0.29	0.14
70	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.15	0.39	1.66	1.89	2.03	2.26	2.25	2.20	1.98	0.61	0.18	0.07
75	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.22	1.03	1.24	1.38	1.57	1.57	1.51	1.30	0.30	0.11	0.03
80	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.12	0.53	0.71	0.83	0.99	0.98	0.92	0.74	0.17	0.07	0.01
85	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.03	0.08	0.20	0.30	0.33	0.45	0.44	0.45	0.32	0.10	0.05	0.00
90	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.04	0.09	0.13	0.13	0.18	0.17	0.18	0.12	0.06	0.03	0.00
95	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.04	0.05	0.05	0.07	0.07	0.07	0.05	0.01	0.01	0.00
100	0.02	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.02	0.03	0.02	0.01	0.00	0.00
105	0.03	0.04	0.03	0.03	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
110	0.04	0.04	0.04	0.04	0.02	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
115	0.06	0.06	0.05	0.05	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.01
120	0.07	0.07	0.07	0.07	0.05	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01
125	0.10	0.10	0.09	0.09	0.08	0.05	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
130	0.13	0.13	0.13	0.13	0.12	0.09	0.06	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.02
135	0.20	0.20	0.20	0.19	0.18	0.16	0.12	0.09	0.07	0.06	0.05	0.04	0.02	0.02	0.02	0.02	0.03	0.03	0.04
140	0.31	0.31	0.32	0.30	0.29	0.26	0.24	0.21	0.18	0.14	0.13	0.11	0.05	0.04	0.04	0.05	0.06	0.07	0.09
145	0.50	0.51	0.50	0.47	0.44	0.41	0.40	0.40	0.39	0.35	0.33	0.29	0.11	0.11	0.11	0.12	0.13	0.16	0.19
150	0.83	0.84	0.82	0.77	0.72	0.67	0.67	0.69	0.72	0.71	0.69	0.66	0.27	0.27	0.26	0.27	0.29	0.32	0.34
155	1.51	1.51	1.46	1.35	1.26	1.17	1.17	1.24	1.34	1.34	1.33	1.26	0.51	0.52	0.52	0.54	0.54	0.56	0.55
160	2.99	2.95	2.82	2.57	2.40	2.22	2.24	2.41	2.65	2.71	2.72	2.57	0.95	0.94	0.94	0.97	0.95	0.96	0.94
165	6.08	5.84	5.43	4.87	4.47	4.19	4.33	4.76	5.33	5.61	5.71	5.44	1.85	1.80	1.81	1.86	1.80	1.79	1.74
170	10.3	9.58	8.57	7.75	7.37	7.32	7.75	8.46	9.39	10.1	10.5	10.4	3.62	3.56	3.63	3.69	3.60	3.58	3.49
175	11.6	10.6	9.92	9.97	10.5	11.0	11.4	11.9	12.4	13.0	13.3	13.6	5.93	6.14	6.45	6.83	6.99	7.15	7.11
180	9.05	9.21	9.48	10.5	11.1	11.5	11.6	11.7	11.7	11.7	11.7	11.7	9.08	9.19	9.49	10.5	11.1	11.5	11.7

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QIU
 Test Date: 2023-07-04

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-610mm-3000K-15D-Rev1

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.9298A P:22.31W PF:1.000 Lamp Flux:1798.85x1 lm					
NAME:Cobra-610mm-3000K-15D-Rev1			TYPE:3000K		WEIGHT:
DIM.:15 DEG			SPEC.:610MM		SERIAL No.:
MFR.:			SUR.:		PROTECTION ANGLE:

Table--2

UNIT: ×10cd

γ (DEG) \ C (DEG)	285	300	315	330	345														
0	1491	1488	1493	1492	1495														
5	1301	1287	1236	1204	1136														
10	655	634	573	537	476														
15	234	232	205	202	173														
20	93.9	91.9	87.0	81.0	77.0														
25	45.3	43.9	40.9	39.4	37.0														
30	24.9	23.9	21.7	17.5	14.3														
35	12.5	6.25	3.09	2.01	1.27														
40	2.33	0.91	0.60	0.50	0.40														
45	0.61	0.43	0.32	0.26	0.20														
50	0.39	0.27	0.13	0.04	0.01														
55	0.23	0.08	0.04	0.01	0.01														
60	0.09	0.03	0.01	0.00	0.00														
65	0.03	0.01	0.00	0.00	0.00														
70	0.01	0.00	0.00	0.00	0.00														
75	0.01	0.00	0.00	0.00	0.00														
80	0.00	0.00	0.00	0.00	0.00														
85	0.00	0.00	0.00	0.00	0.00														
90	0.00	0.00	0.00	0.01	0.00														
95	0.00	0.00	0.00	0.01	0.01														
100	0.00	0.01	0.01	0.01	0.01														
105	0.00	0.01	0.01	0.02	0.02														
110	0.00	0.01	0.02	0.02	0.02														
115	0.01	0.02	0.03	0.03	0.03														
120	0.01	0.03	0.04	0.04	0.04														
125	0.02	0.04	0.05	0.06	0.06														
130	0.04	0.06	0.07	0.07	0.07														
135	0.07	0.10	0.10	0.10	0.10														
140	0.13	0.15	0.15	0.15	0.16														
145	0.22	0.23	0.24	0.25	0.25														
150	0.36	0.37	0.39	0.40	0.42														
155	0.57	0.59	0.62	0.64	0.69														
160	0.96	0.98	1.04	1.10	1.19														
165	1.75	1.79	1.91	2.03	2.22														
170	3.47	3.49	3.67	3.86	4.20														
175	7.04	6.92	6.95	7.04	7.17														
180	11.7	11.7	11.7	11.7	11.7														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QIU
 Test Date:2023-07-04

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-610mm-3000K-15D-Rev1