

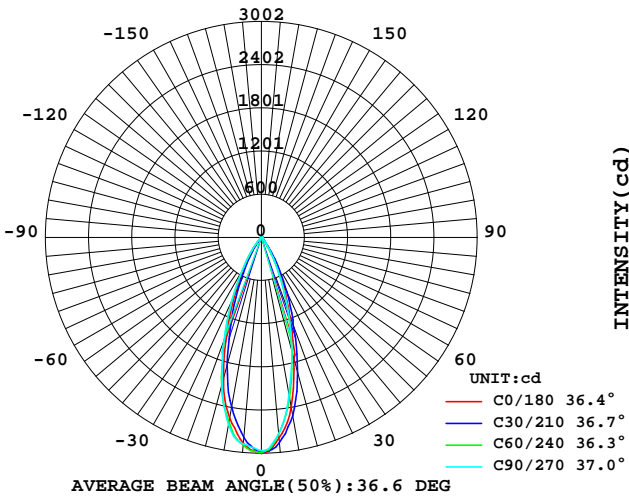
# LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

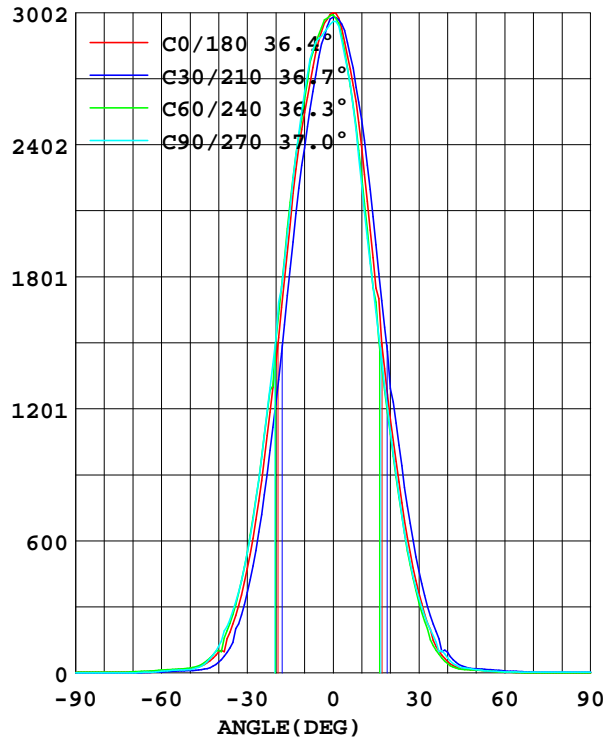
MANUFACTURER:			
Address:			
NAME: JXL-COB04-R15W-5CCT-4RR-SM-BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 5000	DIMENSION:	SERIAL No.:

DATA OF LAMP		I <sub>max</sub> (cd)	3013	S/MH(C0/180)	0.63
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.66
NOMINAL POWER(W)	15	TOTAL FLUX(lm)	1342.6	Voltage(V)	120.5
RATED VOLTAGE(V)	120	EFFICIENCY(lm/W)	89.7	Current(A)	0.125
NOMINAL FLUX(lm)	1342.6	h up(%)	1.0	Power(W)	14.96
LAMPS QUANTITY	1	h down(%)	99.0	Power Factor(PF)	0.987
TEST VOLTAGE(V)	120.6	Effective Flux(lm)	1342.6	EEL	0.152

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



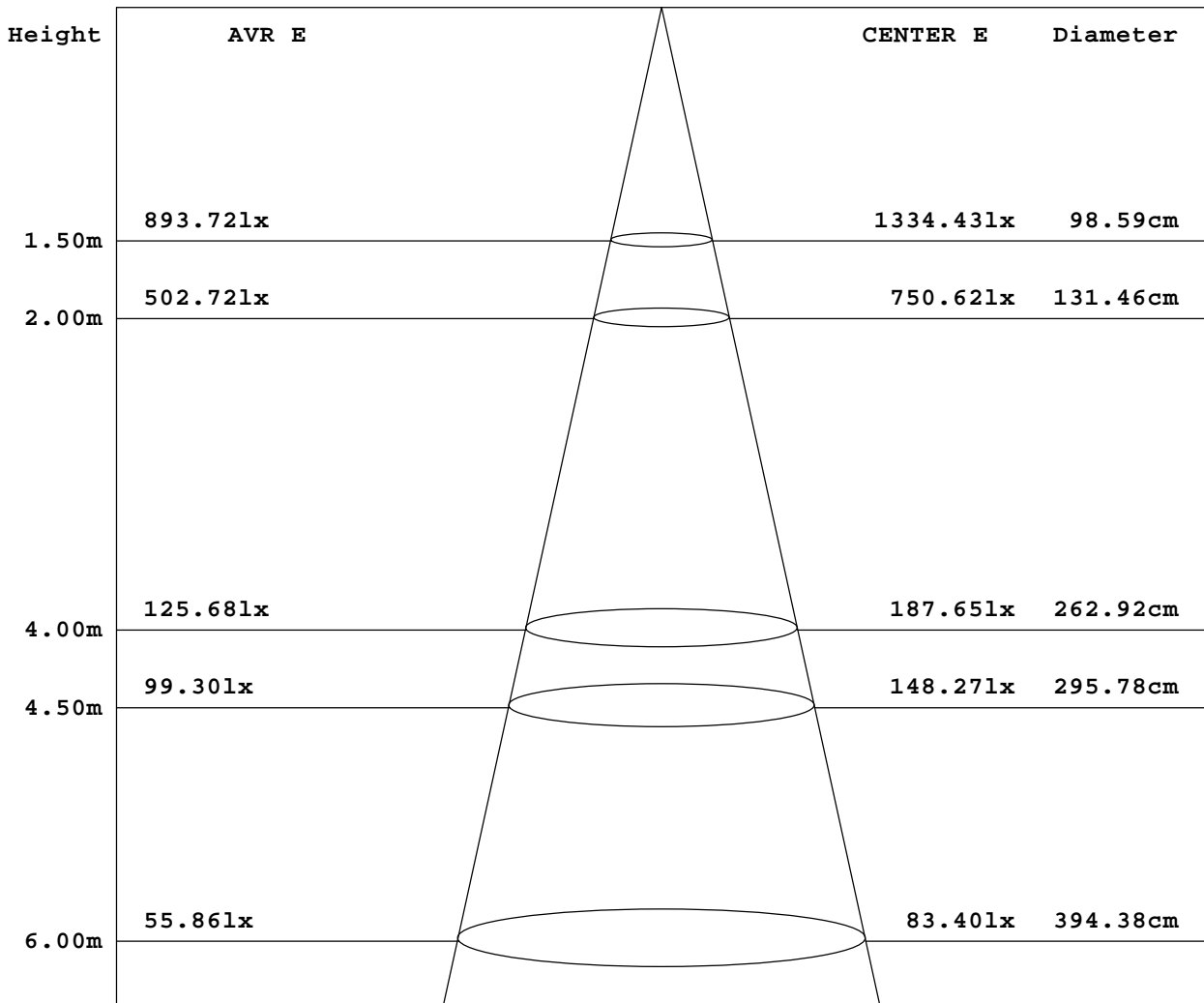
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024/02/02

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.900 m  
 Remarks:

## AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:			
Address:			
NAME: JXL-COB04-R15W-5CCT-4RR-SM-BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 5000	DIMENSION:	SERIAL No.:



Angle: 36.4deg

Test System: HOPOO HPG1800  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024/02/02

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 5.900 m  
 Remarks:

## ZONAL FLUX DIAGRAM

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME: JXL-COB04-R15W-5CCT-4RR-SM-BK</b>		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	CCT(K): 5000	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

g	C0	C45	C90	C135	C180	C225	C270	C315	g	zone	tTotal
5.0	2873	2850	2883	2710	2806	2808	2746	2879	0- 5	69.18	69.18
10.0	2548	2498	2641	2161	2397	2391	2226	2667	5- 10	187.7	256.9
15.0	2040	1990	2111	1619	1750	1816	1639	2181	10- 15	256.0	513.0
20.0	1403	1366	1513	1038	1154	1190	1099	1625	15- 20	260.2	773.2
25.0	873.9	851.9	979.2	597.0	693.1	740.1	636.2	1031	20- 25	216.5	989.8
30.0	474.5	456.3	546.8	321.0	364.2	393.4	340.6	580.9	25- 30	152.3	1142
35.0	222.7	202.5	283.1	151.8	147.3	173.4	169.1	303.1	30- 35	91.55	1234
40.0	95.34	75.34	119.9	59.68	51.83	67.89	68.05	139.3	35- 40	45.56	1279
45.0	38.11	32.52	39.40	23.14	18.97	24.40	24.57	52.85	40- 45	20.10	1299
50.0	19.45	16.63	15.97	17.57	13.85	15.99	15.49	20.57	45- 50	9.330	1309
55.0	14.86	12.81	12.46	11.67	8.946	11.40	8.458	14.60	50- 55	6.304	1315
60.0	10.30	8.702	7.797	6.213	4.003	6.718	5.778	9.642	55- 60	4.480	1319
65.0	6.822	5.256	3.689	3.481	2.227	4.420	4.351	5.447	60- 65	2.835	1322
70.0	4.316	3.063	0.870	2.227	1.009	2.523	3.933	3.411	65- 70	1.767	1324
75.0	3.724	2.227	0.696	2.053	1.079	2.297	3.585	2.367	70- 75	1.252	1325
80.0	3.376	2.036	0.696	1.897	1.113	2.175	3.306	2.210	75- 80	1.159	1326
85.0	3.098	1.897	0.696	1.792	1.113	2.053	3.098	2.088	80- 85	1.104	1328
90.0	2.889	1.792	0.696	1.688	1.113	1.949	2.924	1.966	85- 90	1.052	1329
95.0	2.680	1.723	0.696	1.636	1.148	1.862	2.749	1.879	90- 95	1.001	1330
100.0	2.541	1.636	0.731	1.566	1.183	1.792	2.575	1.792	95-100	0.952	1331
105.0	2.401	1.583	0.766	1.496	1.183	1.705	2.436	1.723	100-105	0.901	1332
110.0	2.262	1.531	0.801	1.462	1.183	1.653	2.262	1.653	105-110	0.847	1332
115.0	2.193	1.496	0.801	1.444	1.183	1.583	2.158	1.583	110-115	0.796	1333
120.0	2.088	1.496	0.870	1.462	1.218	1.549	2.088	1.531	115-120	0.746	1334
125.0	2.053	1.496	0.940	1.531	1.287	1.531	2.018	1.496	120-125	0.705	1335
130.0	2.053	1.583	1.079	1.653	1.462	1.601	2.053	1.549	125-130	0.685	1335
135.0	2.193	1.792	1.322	1.931	1.740	1.810	2.227	1.670	130-135	0.691	1336
140.0	2.436	2.140	1.670	2.349	2.193	2.140	2.575	1.914	135-140	0.733	1337
145.0	2.924	2.662	2.193	2.958	2.854	2.645	3.063	2.332	140-145	0.803	1338
150.0	3.550	3.341	2.889	3.707	3.620	3.341	3.724	2.924	145-150	0.885	1338
155.0	4.316	4.159	3.689	4.490	4.525	4.159	4.525	3.655	150-155	0.949	1339
160.0	5.186	5.012	4.525	5.291	5.465	5.030	5.395	4.490	155-160	0.960	1340
165.0	6.022	5.865	5.325	6.022	6.370	5.882	6.196	5.308	160-165	0.893	1341
170.0	6.822	6.544	6.091	6.596	7.170	6.596	6.892	6.056	165-170	0.734	1342
175.0	7.414	7.031	6.648	6.631	7.658	7.101	7.275	6.631	170-175	0.484	1342
180.0	7.832	7.344	7.066	6.962	7.832	7.344	7.275	6.962	175-180	0.170	1343
DEG	LUMINOUS INTENSITY:cd									UNIT: lm	

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024/02/02

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.900 m  
 Remarks:

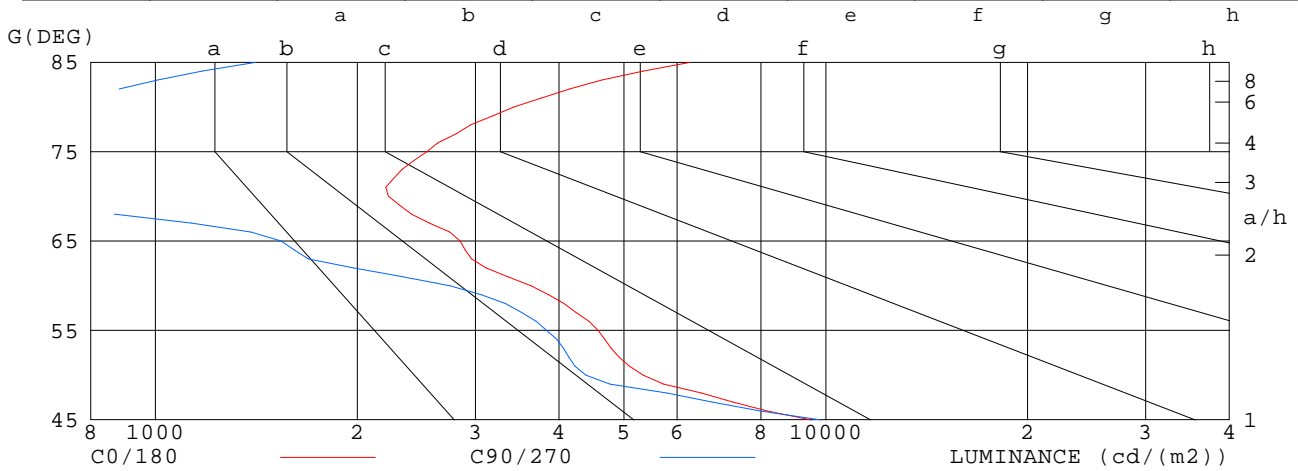
## LUMINANCE LIMITATION CURVES

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME: JXL-COB04-R15W-5CCT-4RR-SM-BK</b>		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>CCT(K): 5000</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

### LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
		2000	1000	500	<=300	<=300	<=300	<=300	<=300
1.15	A	2000	1000	500	<=300	<=300	<=300	<=300	<=300
1.50	B		2000	1000	500	<=300	<=300	<=300	<=300
1.85	C			2000	1000	500	<=300	<=300	<=300
2.20	D				2000	1000	500	<=300	<=300
2.55	E					2000	1000	500	<=300



G (DEG)	LUMINANCE cd/m2	
	C0/180	C90/270
85	6269	1409
80	3429	707
75	2538	474
70	2226	449
65	2847	1540
60	3634	2750
55	4570	3832
50	5339	4384
45	9507	9828

**Test System:**HOPOO HPG1800  
**Temperature:**25.3DEG  
**Operators:**  
**Test Date:**2024/02/02

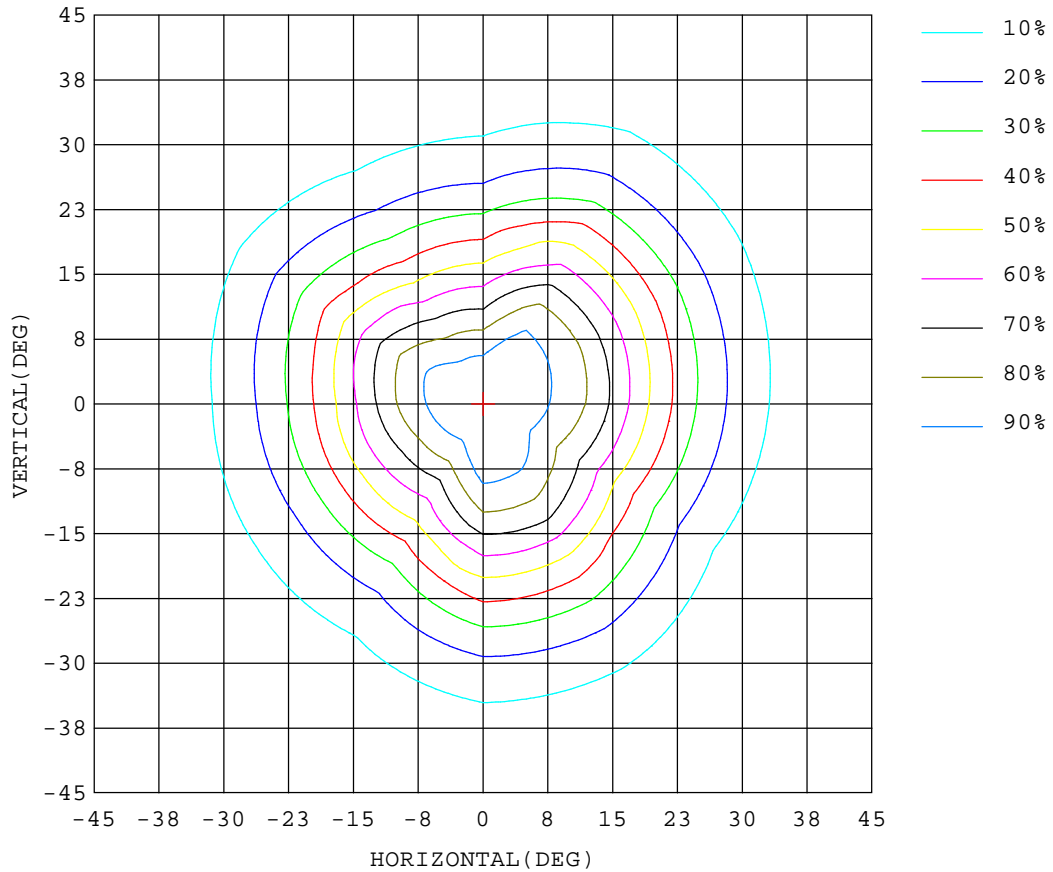
**Test Set:** 5.0deg/s C-Gamma (TYPE C)  
**Humidity:**65.0%  
**Test Distance:**5.900 m  
**Remarks:**

# ISOCANDELA DIAGRAM

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME:</b> JXL-COB04-R15W-5CCT-4RR-SM-BK		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>CCT(K):</b> 5000	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd



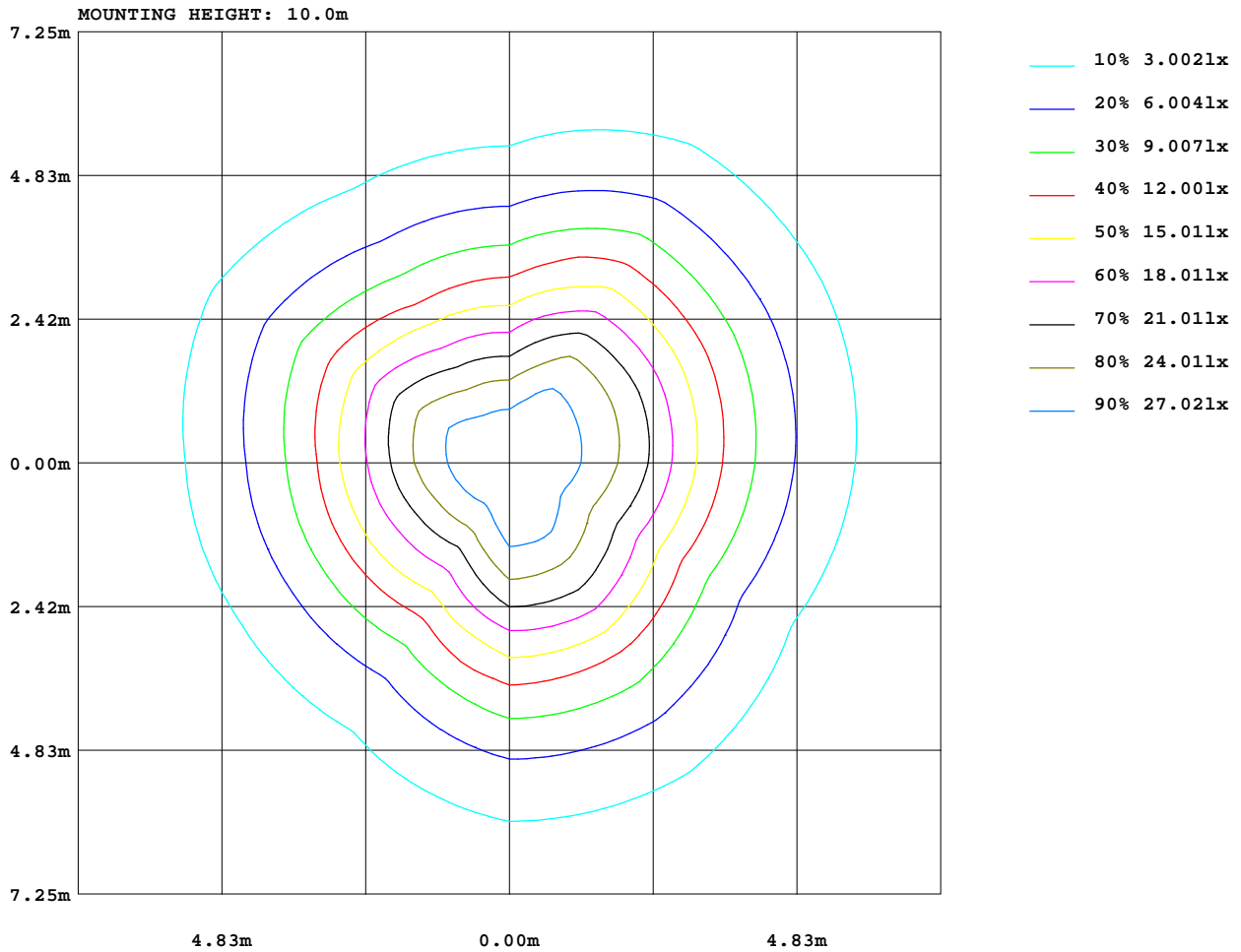
**Test System:**HOPOO HPG1800  
**Temperature:**25.3DEG  
**Operators:**  
**Test Date:**2024/02/02

**Test Set:** 5.0deg/s C-Gamma (TYPE C)  
**Humidity:**65.0%  
**Test Distance:**5.900 m  
**Remarks:**

# ISOLUX DIAGRAM

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME: JXL-COB04-R15W-5CCT-4RR-SM-BK</b>		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>CCT(K): 5000</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>



**Test System:HOPOO HPG1800**  
**Temperature:25.3DEG**  
**Operators:**  
**Test Date:2024/02/02**

**Test Set: 5.0deg/s C-Gamma (TYPE C)**  
**Humidity:65.0%**  
**Test Distance:5.900 m**  
**Remarks:**

## AREA LUMINOUS FLUX

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME: JXL-COB04-R15W-5CCT-4RR-SM-BK</b>		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>CCT(K): 5000</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		$\Phi$ t	$\Phi$ a
	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45	
45	0.06	0.08	0.09	0.10	0.11	0.13	0.18	0.24	0.30	0.35	0.39	0.37	0.31	0.22	0.15	0.11	0.10	0.08	3.37	3.37
40	0.08	0.10	0.12	0.15	0.20	0.28	0.46	0.64	0.78	0.94	1.06	1.04	0.87	0.57	0.34	0.19	0.12	0.10	8.03	8.03
35	0.10	0.13	0.19	0.33	0.50	0.73	1.13	1.55	1.81	2.08	2.28	2.20	1.87	1.27	0.72	0.39	0.20	0.12	17.6	17.6
30	0.11	0.19	0.39	0.68	1.18	1.77	2.44	3.13	3.54	4.01	4.41	4.20	3.29	2.18	1.32	0.68	0.35	0.16	34.0	34.0
25	0.13	0.30	0.67	1.38	2.35	3.44	4.48	5.63	6.38	7.18	7.82	7.25	5.32	3.44	2.03	1.08	0.51	0.21	59.6	59.6
20	0.15	0.42	1.03	2.28	3.90	5.73	7.42	8.96	10.1	11.3	12.2	10.7	7.81	5.02	2.88	1.48	0.66	0.28	92.6	92.6
15	0.18	0.50	1.38	3.00	5.50	8.34	10.9	13.0	14.4	15.9	16.6	13.8	10.1	6.60	3.69	1.84	0.79	0.34	127	127
10	0.20	0.57	1.60	3.46	6.36	10.1	14.5	17.4	18.7	20.2	19.6	16.3	11.9	7.66	4.29	2.10	0.88	0.36	157	157
5	0.19	0.58	1.66	3.57	6.58	10.7	15.6	19.8	21.7	22.0	20.5	17.3	12.5	8.05	4.51	2.19	0.88	0.37	169	169
0	0.18	0.56	1.58	3.37	6.21	10.2	14.7	18.8	21.4	22.0	19.7	16.5	11.9	7.61	4.25	2.05	0.80	0.34	162	162
-5	0.16	0.50	1.39	2.91	5.32	8.71	12.5	15.7	19.1	20.9	18.3	14.3	10.0	6.43	3.58	1.71	0.66	0.28	143	143
-10	0.14	0.40	1.10	2.29	4.07	6.67	9.63	12.3	16.3	17.9	16.1	12.2	8.08	4.87	2.67	1.26	0.48	0.21	117	117
-15	0.11	0.28	0.77	1.66	2.89	4.60	6.60	9.25	12.5	13.6	12.2	9.48	6.40	3.66	1.81	0.77	0.32	0.14	87.1	87.1
-20	0.10	0.18	0.48	1.06	1.90	2.94	4.22	6.37	8.56	9.27	8.38	6.78	4.52	2.58	1.21	0.45	0.19	0.10	59.3	59.3
-25	0.09	0.13	0.27	0.59	1.07	1.72	2.63	3.93	5.19	5.61	5.06	4.11	2.82	1.58	0.71	0.29	0.12	0.07	36.0	36.0
-30	0.08	0.11	0.16	0.30	0.56	0.86	1.45	2.17	2.81	3.00	2.70	2.17	1.50	0.81	0.42	0.20	0.09	0.06	19.4	19.4
-35	0.06	0.09	0.12	0.17	0.26	0.44	0.74	1.06	1.38	1.46	1.26	0.97	0.69	0.46	0.25	0.13	0.08	0.06	9.70	9.70
-40	0.04	0.07	0.10	0.13	0.16	0.21	0.31	0.42	0.54	0.57	0.52	0.43	0.33	0.23	0.15	0.10	0.07	0.05	4.43	4.43
-45																				
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL( DEG)	10	15	20	25	30	35	40	45			
$\Phi$ t	2.16	5.20	13.1	27.4	49.1	77.7	110	141	166	179	170	140	100	63.2	35.0	17.0	7.30	3.30	1343	
$\Phi$ a	2.16	5.20	13.1	27.4	49.1	77.7	110	141	166	179	170	140	100	63.2	35.0	17.0	7.30	3.30		1343

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024/02/02

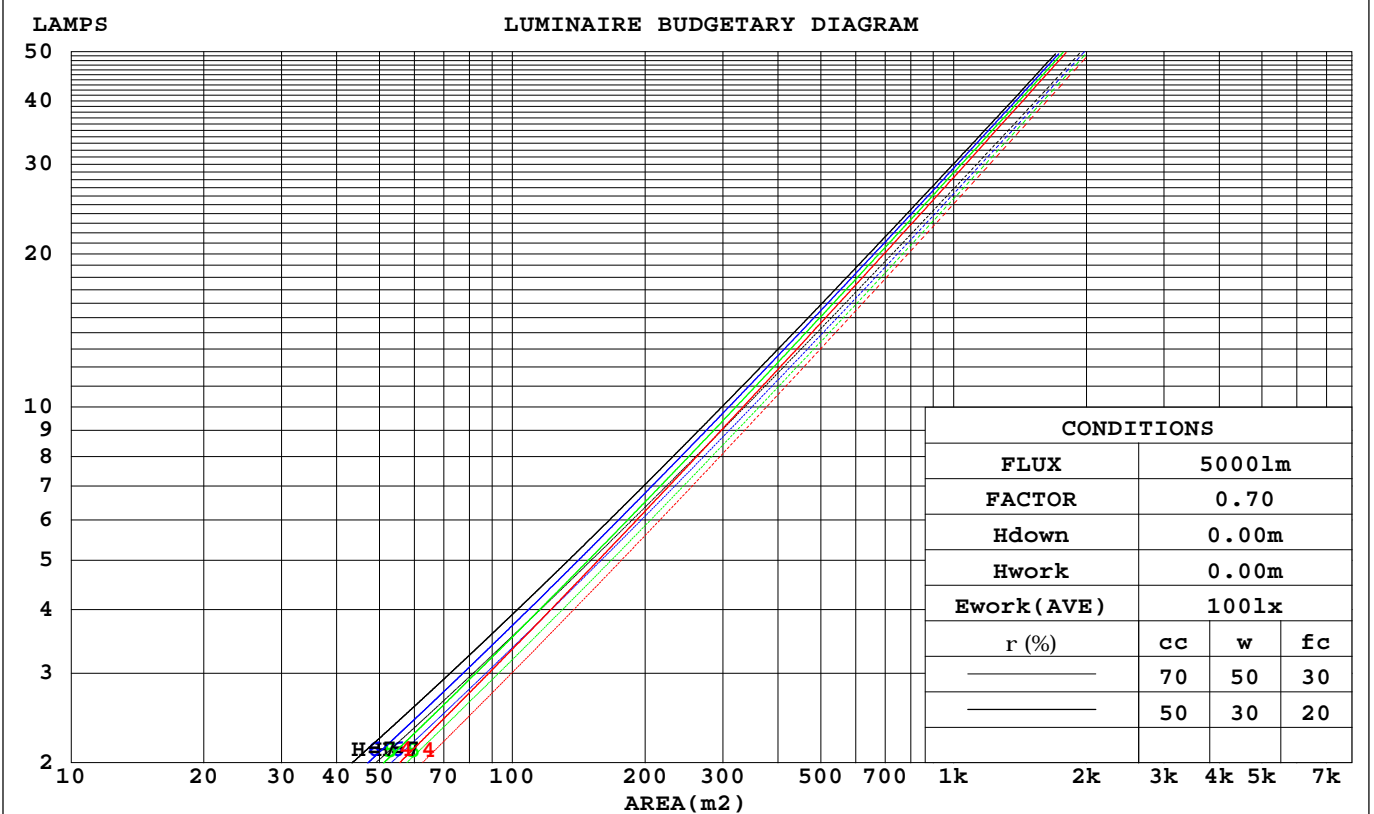
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.900 m  
 Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME:</b> JXL-COB04-R15W-5CCT-4RR-SM-BK		<b>TYPE:</b>	
<b>SPECIFICATION:</b>		<b>SERIAL No.:</b>	
CCT(K): 5000		DIMENSION:	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>															
	<b>Coefficients of Utilization(CU)</b>															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	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	.00	.99	.97	.97	.96	.94
2.0	1.05	1.01	.98	1.03	.00	.97	.00	.97	.95	.97	.94	.93	.94	.92	.91	.89
3.0	.99	.95	.91	.97	.94	.90	.95	.91	.89	.92	.90	.87	.90	.88	.86	.84
4.0	.94	.89	.85	.93	.88	.85	.90	.87	.84	.88	.85	.83	.86	.84	.81	.80
5.0	.89	.84	.80	.88	.83	.80	.86	.82	.79	.84	.81	.78	.83	.80	.78	.76
6.0	.85	.80	.76	.84	.79	.76	.82	.78	.75	.81	.77	.74	.80	.76	.74	.73
7.0	.81	.76	.72	.80	.75	.72	.79	.74	.71	.78	.74	.71	.76	.73	.70	.69
8.0	.77	.72	.69	.77	.72	.68	.75	.71	.68	.74	.71	.68	.73	.70	.67	.66
9.0	.74	.69	.65	.73	.69	.65	.72	.68	.65	.72	.68	.65	.71	.67	.65	.63
10.0	.71	.66	.63	.70	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.62	.61



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024/02/02

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.900 m  
 Remarks:



**WEC AND CCEC**

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME:</b> JXL-COB04-R15W-5CCT-4RR-SM-BK		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	CCT(K): 5000	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Wall Exitance Coefficients(WEC)</b>									
0.0																
1.0	.161	.092	.029	.154	.088	.028	.141	.081	.026	.129	.075	.024	.118	.069	.022	
2.0	.152	.083	.026	.146	.080	.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	.069	.020	.123	.065	.019	.115	.062	.019	.109	.059	.018	
5.0	.128	.065	.019	.125	.064	.019	.118	.061	.018	.111	.059	.017	.105	.056	.017	
6.0	.122	.061	.018	.119	.060	.017	.113	.058	.017	.107	.056	.016	.102	.054	.016	
7.0	.116	.058	.016	.114	.057	.016	.108	.055	.016	.103	.053	.015	.098	.051	.015	
8.0	.111	.054	.015	.109	.054	.015	.104	.052	.015	.099	.050	.015	.095	.049	.014	
9.0	.107	.052	.014	.104	.051	.014	.100	.049	.014	.096	.048	.014	.092	.047	.014	
10.0	.102	.049	.014	.100	.048	.014	.096	.047	.013	.093	.046	.013	.089	.045	.013	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients(CCEC)</b>									
0.0	.198	.198	.198	.170	.170	.170	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.178	.165	.154	.152	.142	.133	.104	.098	.092	.060	.057	.053	.019	.018	.017	
2.0	.162	.141	.123	.138	.121	.106	.095	.084	.074	.055	.049	.043	.018	.016	.014	
3.0	.148	.122	.100	.127	.105	.087	.087	.073	.061	.050	.043	.036	.016	.014	.012	
4.0	.137	.107	.083	.117	.092	.072	.081	.064	.051	.047	.038	.030	.015	.012	.010	
5.0	.127	.095	.070	.109	.082	.061	.075	.057	.043	.044	.034	.026	.014	.011	.008	
6.0	.119	.085	.060	.103	.074	.053	.071	.052	.037	.041	.030	.022	.013	.010	.007	
7.0	.112	.077	.053	.097	.067	.046	.067	.047	.033	.039	.028	.019	.013	.009	.006	
8.0	.106	.071	.046	.092	.061	.040	.063	.043	.029	.037	.025	.017	.012	.008	.006	
9.0	.101	.065	.041	.087	.057	.036	.060	.040	.026	.035	.024	.015	.011	.008	.005	
10.0	.097	.061	.037	.083	.053	.033	.058	.037	.023	.034	.022	.014	.011	.007	.005	

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024/02/02

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.900 m  
 Remarks:

## UGR Table

Report number:

MANUFACTURER:										
Address:										
NAME: JXL-COB04-R15W-5CCT-4RR-SM-BK						TYPE:			WEIGHT:	
SPECIFICATION:			CCT(K): 5000			DIMENSION:			SERIAL No.:	
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	13.7	14.5	13.9	14.7	14.9	16.2	17.0	16.4	17.2	17.3
3H	13.6	14.4	13.9	14.6	14.8	16.1	16.8	16.3	17.0	17.2
4H	13.6	14.3	13.9	14.5	14.8	16.0	16.7	16.3	16.9	17.2
6H	13.7	14.3	14.0	14.6	14.8	15.9	16.6	16.2	16.8	17.1
8H	13.7	14.4	14.1	14.6	14.9	15.9	16.5	16.2	16.8	17.1
12H	13.9	14.5	14.2	14.8	15.1	15.8	16.4	16.2	16.7	17.0
4H 2H	13.5	14.2	13.8	14.5	14.7	16.0	16.7	16.3	16.9	17.1
3H	13.5	14.1	13.8	14.3	14.6	15.9	16.5	16.2	16.8	17.1
4H	13.4	14.0	13.8	14.3	14.6	15.8	16.4	16.2	16.7	17.0
6H	13.5	14.0	13.9	14.4	14.7	15.8	16.3	16.1	16.6	17.0
8H	13.6	14.1	14.0	14.5	14.9	15.7	16.2	16.1	16.6	16.9
12H	13.9	14.3	14.3	14.7	15.1	15.7	16.1	16.1	16.5	16.9
8H 4H	13.3	13.8	13.7	14.2	14.5	15.7	16.1	16.1	16.5	16.9
6H	13.4	13.8	13.9	14.2	14.7	15.7	16.1	16.1	16.5	16.9
8H	13.6	13.9	14.0	14.3	14.8	15.7	16.1	16.2	16.5	17.0
12H	13.9	14.2	14.4	14.6	15.1	15.8	16.1	16.3	16.5	17.0
12H 4H	13.3	13.7	13.7	14.1	14.5	15.6	16.1	16.1	16.4	16.9
6H	13.4	13.8	13.9	14.2	14.6	15.7	16.0	16.1	16.4	16.9
8H	13.6	13.9	14.1	14.3	14.8	15.7	16.0	16.2	16.5	17.0
Variations with the observer position at spacings:										
S = 1.0H	+ 4.1 / - 3.6					+ 4.0 / - 4.6				
1.5H	+ 6.4 / - 3.9					+ 6.3 / - 4.7				
2.0H	+ 3.8 / - 2.2					+ 2.7 / - 2.1				

CIE Pub.117 Corrected 1343 lm Total Lamp Luminous Flux. (8log(F/F0) = 1.0)

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024/02/02

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.900 m  
 Remarks:

## UTILIZATION FACTORS TABLE

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME:</b> JXL-COB04-R15W-5CCT-4RR-SM-BK		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	CCT(K): 5000	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

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
<b>ROOM INDEX</b>	<b>UTILIZATION FACTORS (PERCENT) <math>k(RI) \times RCR = 5</math></b>									
k = 0.60	89	83	79	88	82	79	87	82	79	75
0.80	96	90	87	95	90	87	94	89	86	83
1.00	100	95	91	99	94	91	97	94	90	86
1.25	104	99	95	103	98	95	101	97	94	90
1.50	106	102	98	105	101	98	103	99	97	92
2.00	109	105	102	107	104	101	104	101	99	94
2.50	110	107	104	109	105	103	105	103	101	95
3.00	112	108	106	110	107	105	106	104	102	96
4.00	114	111	109	112	109	107	108	106	105	97
5.00	115	113	111	113	111	109	109	107	106	98
<b>ROOM INDEX</b>	<b>UF(total)</b>									<b>Direct</b>
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

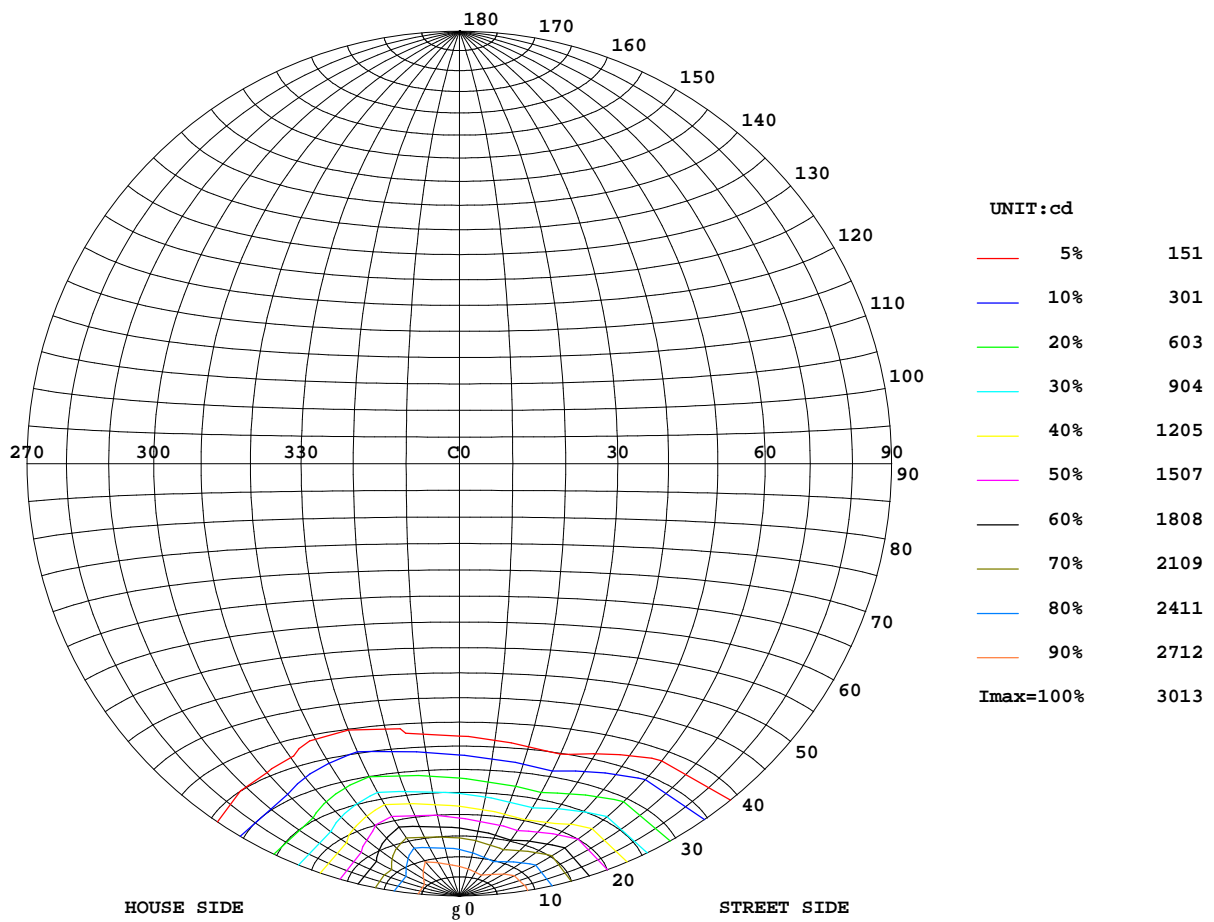
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024/02/02

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.900 m  
 Remarks:

# ISOCANDELA DIAGRAM

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME:</b> JXL-COB04-R15W-5CCT-4RR-SM-BK		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	CCT(K): 5000	<b>DIMENSION:</b>	<b>SERIAL No.:</b>



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024/02/02

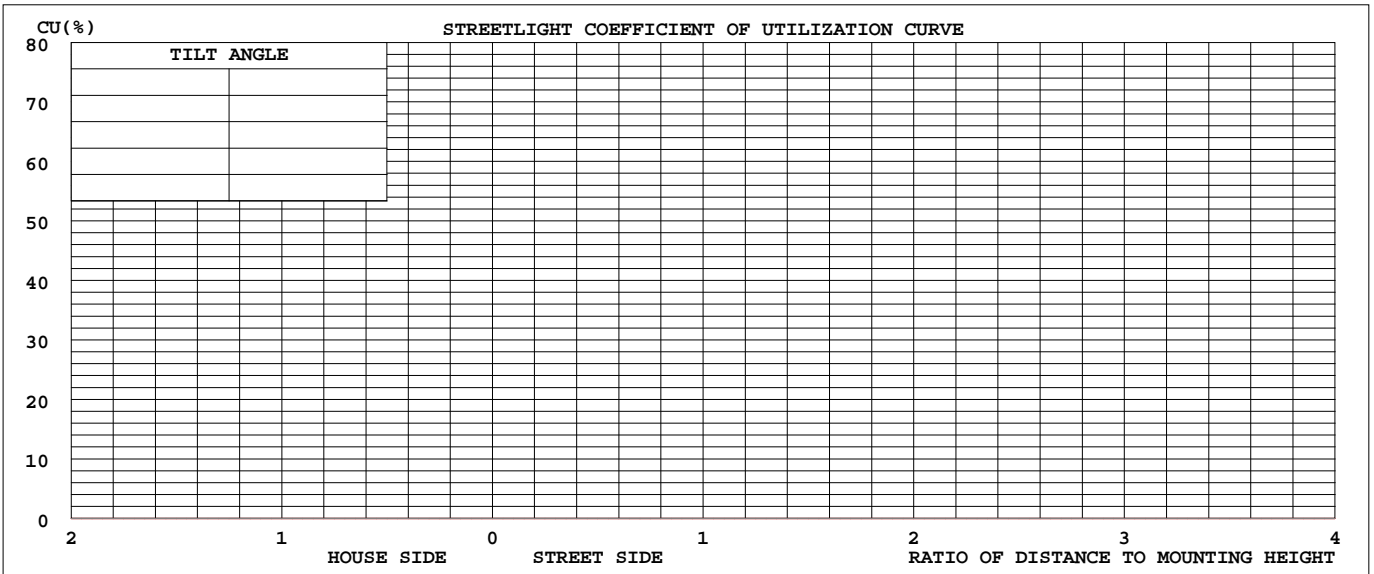
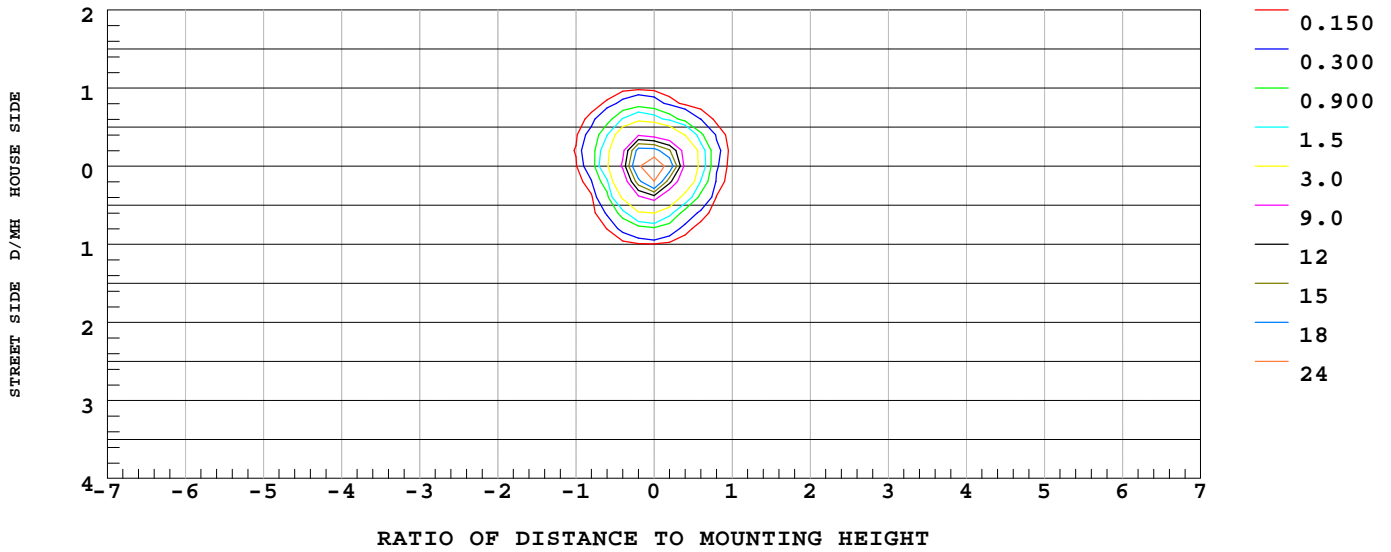
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.900 m  
 Remarks:

# ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: JXL-COB04-R15W-5CCT-4RR-SM-BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 5000	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 30.02 lx



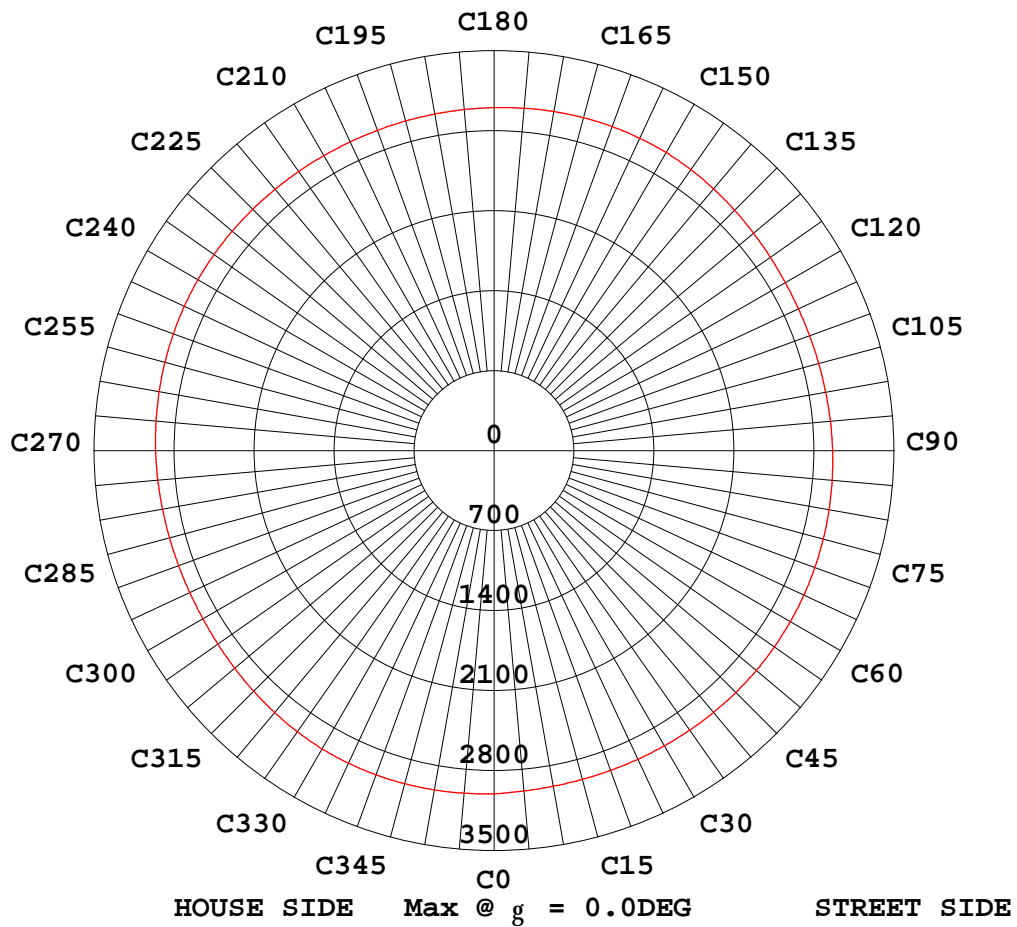
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024/02/02

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.900 m  
 Remarks:

# ISOCANDELA DIAGRAM

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME:</b> JXL-COB04-R15W-5CCT-4RR-SM-BK		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	CCT(K): 5000	<b>DIMENSION:</b>	<b>SERIAL No.:</b>



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024/02/02

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.900 m  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME: JXL-COB04-R15W-5CCT-4RR-SM-BK</b>		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>CCT(K): 5000</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd

$\gamma$ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	3002	2982	2994	2963	2942	3013	3002	2982	2994	2963	2942	3013
5.0	2873	2798	2901	2883	2682	2739	2806	2865	2751	2746	2883	2876
10.0	2548	2388	2609	2641	2107	2215	2397	2519	2263	2226	2694	2641
15.0	2040	1839	2140	2111	1555	1683	1750	1947	1686	1639	2198	2164
20.0	1403	1222	1511	1513	1013	1064	1154	1294	1086	1099	1691	1559
25.0	874	720	984	979	587	607	693	844	636	636	1051	1010
30.0	475	366	547	547	315	327	364	466	321	341	597	565
35.0	223	139	266	283	152	152	147	222	125	169	313	293
40.0	95.3	48.2	102	120	64.2	55.1	51.8	93.4	42.2	68.0	139	139
45.0	38.1	17.7	47.3	39.4	26.6	19.6	18.9	32.7	16.0	24.5	46.6	59.1
50.0	19.4	10.8	22.3	15.9	20.1	14.9	13.8	19.1	12.8	15.4	17.1	23.9
55.0	14.8	8.28	17.3	12.4	14.2	9.08	8.94	14.8	7.93	8.45	12.1	17.0
60.0	10.3	4.28	13.1	7.79	8.21	4.21	4.00	9.46	3.96	5.77	7.10	12.1
65.0	6.82	2.19	8.31	3.68	5.29	1.67	2.22	6.89	1.94	4.35	3.37	7.51
70.0	4.31	0.73	5.39	0.87	3.79	0.66	1.00	4.21	0.84	3.93	1.63	5.18
75.0	3.72	0.70	3.75	0.70	3.44	0.66	1.07	3.75	0.84	3.58	0.80	3.93
80.0	3.37	0.70	3.37	0.70	3.13	0.66	1.11	3.48	0.87	3.30	0.84	3.58
85.0	3.09	0.70	3.09	0.70	2.88	0.70	1.11	3.20	0.91	3.09	0.87	3.30
90.0	2.88	0.73	2.85	0.70	2.68	0.70	1.11	2.99	0.91	2.92	0.87	3.06
95.0	2.68	0.77	2.68	0.70	2.54	0.73	1.14	2.81	0.91	2.74	0.87	2.88
100.0	2.54	0.77	2.50	0.73	2.36	0.77	1.18	2.64	0.94	2.57	0.91	2.68
105.0	2.40	0.80	2.36	0.77	2.22	0.77	1.18	2.50	0.91	2.43	0.91	2.54
110.0	2.26	0.84	2.22	0.80	2.12	0.80	1.18	2.36	0.94	2.26	0.91	2.40
115.0	2.19	0.87	2.12	0.80	2.05	0.84	1.18	2.22	0.94	2.15	0.91	2.26
120.0	2.08	0.94	2.05	0.87	1.98	0.94	1.21	2.12	0.97	2.08	0.91	2.15
125.0	2.05	1.00	1.98	0.94	2.01	1.04	1.28	2.01	1.04	2.01	0.94	2.05
130.0	2.05	1.18	1.98	1.07	2.08	1.21	1.46	2.01	1.18	2.05	1.04	2.05
135.0	2.19	1.49	2.08	1.32	2.29	1.56	1.74	2.12	1.49	2.22	1.21	2.12
140.0	2.43	1.94	2.33	1.67	2.68	2.01	2.19	2.33	1.94	2.57	1.53	2.29
145.0	2.92	2.57	2.74	2.19	3.23	2.68	2.85	2.74	2.54	3.06	1.98	2.68
150.0	3.55	3.34	3.34	2.88	3.93	3.48	3.62	3.37	3.30	3.72	2.61	3.23
155.0	4.31	4.24	4.07	3.68	4.66	4.31	4.52	4.14	4.17	4.52	3.37	3.93
160.0	5.18	5.11	4.90	4.52	5.43	5.15	5.46	4.97	5.08	5.39	4.24	4.73
165.0	6.02	5.98	5.74	5.32	6.12	5.91	6.37	5.84	5.91	6.19	5.08	5.53
170.0	6.82	6.64	6.43	6.09	6.68	6.50	7.17	6.61	6.57	6.89	5.88	6.23
175.0	7.41	7.06	6.99	6.64	6.43	6.82	7.65	7.20	6.99	7.27	6.43	6.82
180.0	7.83	7.41	7.27	7.06	6.78	7.13	7.83	7.41	7.27	7.27	6.78	7.13

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024/02/02

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.900 m  
 Remarks: