

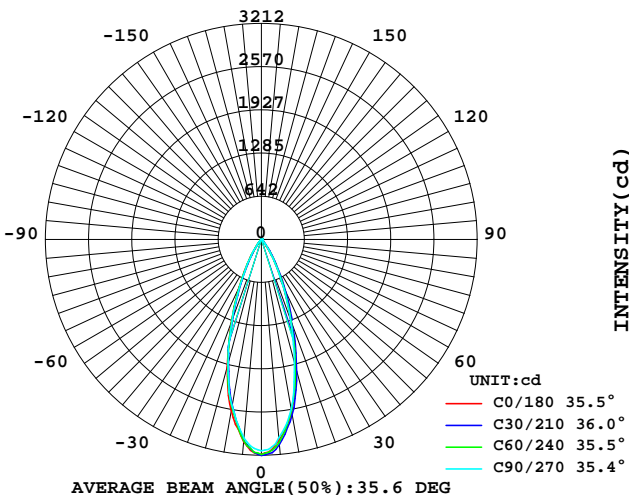
# LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

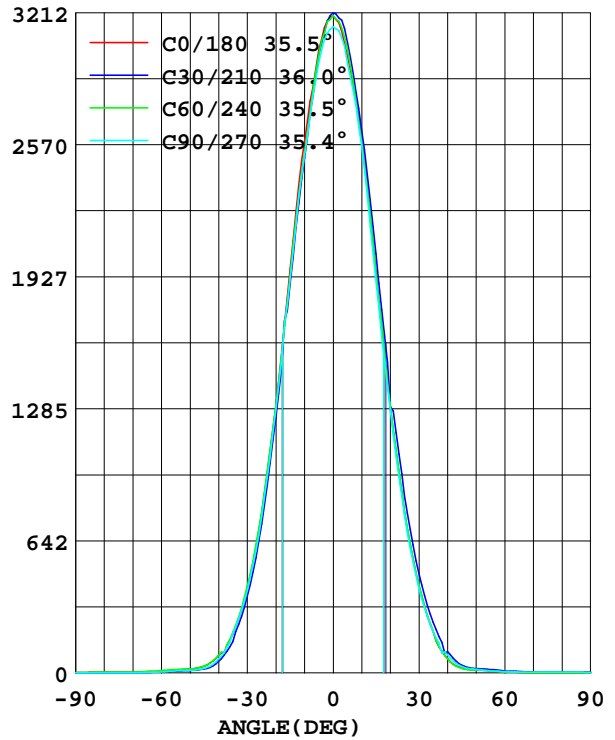
MANUFACTURER:			
Address:			
NAME: JXL-COB04-R15W-5CCT-4RR-SM-BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3500	DIMENSION:	SERIAL No.:

DATA OF LAMP		I <sub>max</sub> (cd)	3212	S/MH(C0/180)	0.58
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.58
NOMINAL POWER(W)	15	TOTAL FLUX(lm)	1346.4	Voltage(V)	120.5
RATED VOLTAGE(V)	120	EFFICIENCY(lm/W)	89.6	Current(A)	0.126
NOMINAL FLUX(lm)	1346.4	h up(%)	1.1	Power(W)	15.02
LAMPS QUANTITY	1	h down(%)	98.9	Power Factor(PF)	0.987
TEST VOLTAGE(V)	120.6	Effective Flux(lm)	1346.4	EEL	0.152

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



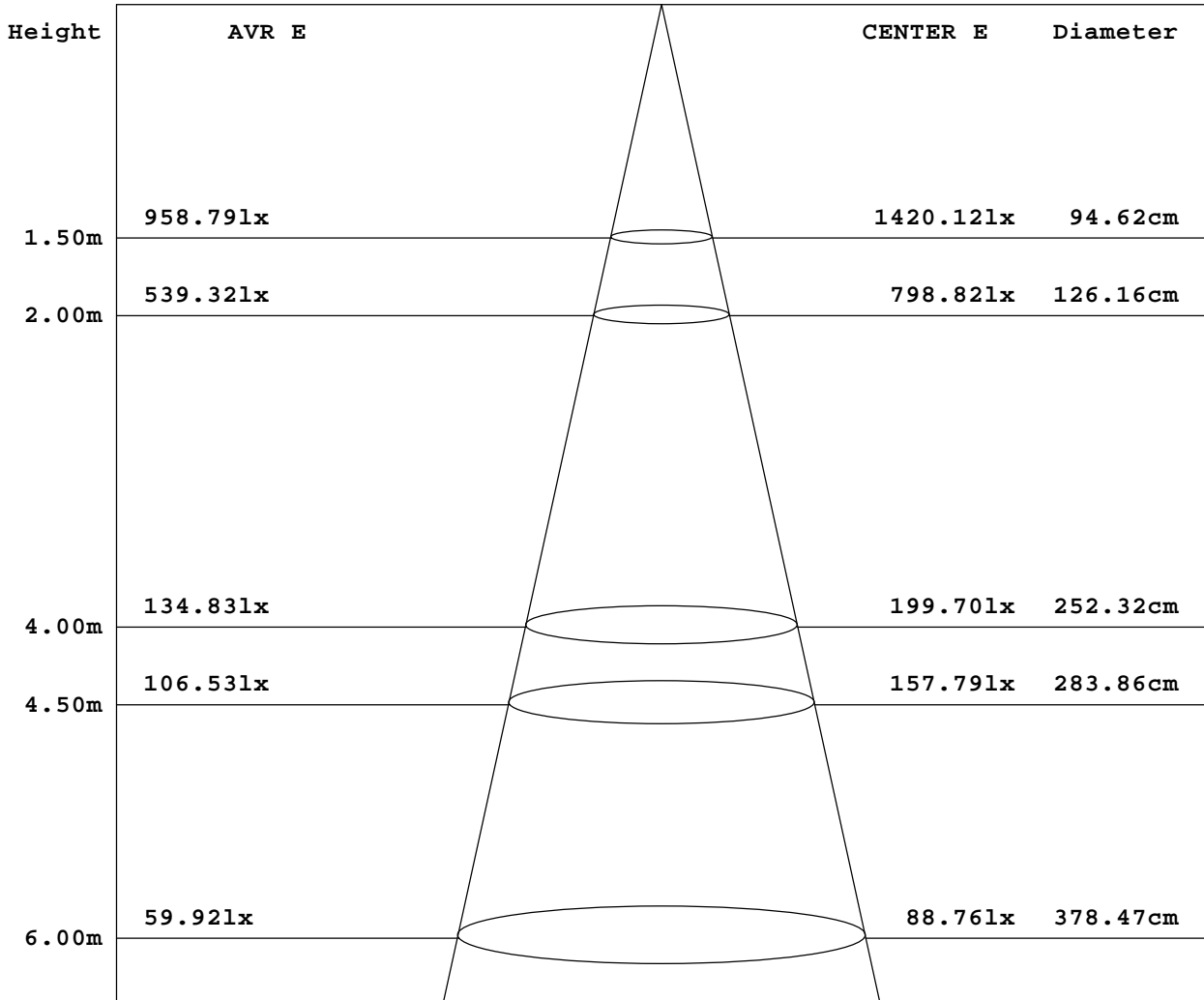
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024/02/02

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): 3500	DIMENSION:	SERIAL No.:



Angle: 35.0deg

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:</b> JXL-COB04-R15W-5CCT-4RR-SM-BK		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	CCT(K): 3500	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

g	C0	C45	C90	C135	C180	C225	C270	C315	g	zone	tTotal
5.0	3026	3005	2967	2976	3000	3050	2963	2927	0- 5	73.60	73.60
10.0	2586	2521	2519	2589	2603	2615	2569	2512	5- 10	197.6	271.2
15.0	1967	1915	1919	1965	1956	1993	1906	1867	10- 15	266.1	537.4
20.0	1294	1268	1277	1325	1287	1298	1276	1216	15- 20	262.6	800.0
25.0	778.8	755.4	761.2	798.1	780.2	827.6	768.9	710.1	20- 25	211.7	1012
30.0	414.2	398.2	400.9	438.4	425.7	457.5	412.1	372.4	25- 30	145.9	1158
35.0	188.9	175.8	193.9	212.4	200.6	224.5	200.2	184.7	30- 35	86.69	1244
40.0	84.44	70.78	67.77	87.58	69.02	86.31	88.41	67.02	35- 40	41.55	1286
45.0	33.34	26.61	22.93	32.61	24.47	30.52	32.16	25.60	40- 45	17.95	1304
50.0	18.69	16.11	13.36	17.96	15.07	17.90	17.78	14.67	45- 50	8.383	1312
55.0	14.48	12.91	10.09	13.87	10.47	13.54	9.816	10.79	50- 55	6.284	1319
60.0	9.433	7.849	5.047	7.867	4.386	7.466	7.031	5.987	55- 60	4.472	1323
65.0	6.474	4.960	2.436	5.099	2.819	5.151	4.629	4.246	60- 65	2.757	1326
70.0	4.177	2.506	0.696	2.419	1.009	2.628	4.107	2.471	65- 70	1.707	1328
75.0	3.724	2.210	0.696	2.175	1.044	2.401	3.759	2.314	70- 75	1.243	1329
80.0	3.376	2.036	0.696	2.001	1.079	2.245	3.446	2.175	75- 80	1.179	1330
85.0	3.132	1.914	0.696	1.879	1.113	2.123	3.202	2.053	80- 85	1.124	1331
90.0	2.889	1.810	0.731	1.757	1.148	2.036	3.028	1.966	85- 90	1.072	1332
95.0	2.715	1.723	0.731	1.688	1.148	1.931	2.854	1.879	90- 95	1.023	1333
100.0	2.541	1.653	0.766	1.618	1.183	1.862	2.680	1.792	95-100	0.972	1334
105.0	2.436	1.601	0.801	1.566	1.183	1.775	2.541	1.723	100-105	0.920	1335
110.0	2.297	1.566	0.835	1.531	1.183	1.705	2.401	1.653	105-110	0.866	1336
115.0	2.193	1.531	0.870	1.496	1.218	1.636	2.262	1.583	110-115	0.814	1337
120.0	2.123	1.514	0.905	1.479	1.253	1.583	2.123	1.531	115-120	0.761	1338
125.0	2.088	1.531	1.009	1.496	1.287	1.583	2.053	1.531	120-125	0.719	1338
130.0	2.123	1.670	1.148	1.566	1.427	1.618	2.053	1.618	125-130	0.694	1339
135.0	2.297	1.879	1.427	1.757	1.670	1.792	2.158	1.792	130-135	0.697	1340
140.0	2.575	2.280	1.844	2.088	2.088	2.088	2.401	2.123	135-140	0.735	1340
145.0	3.063	2.837	2.436	2.575	2.680	2.575	2.819	2.645	140-145	0.804	1341
150.0	3.759	3.585	3.202	3.272	3.446	3.272	3.446	3.341	145-150	0.891	1342
155.0	4.594	4.420	4.072	4.055	4.386	4.072	4.212	4.159	150-155	0.960	1343
160.0	5.499	5.308	4.943	4.908	5.360	4.977	5.117	5.047	155-160	0.977	1344
165.0	6.370	6.143	5.778	5.726	6.300	5.865	5.987	5.865	160-165	0.912	1345
170.0	7.101	6.822	6.474	6.405	7.136	6.648	6.787	6.544	165-170	0.750	1346
175.0	7.658	7.257	6.996	6.962	7.727	7.223	7.310	7.031	170-175	0.497	1346
180.0	7.971	7.431	7.518	7.153	7.971	7.431	7.518	7.153	175-180	0.175	1346
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:

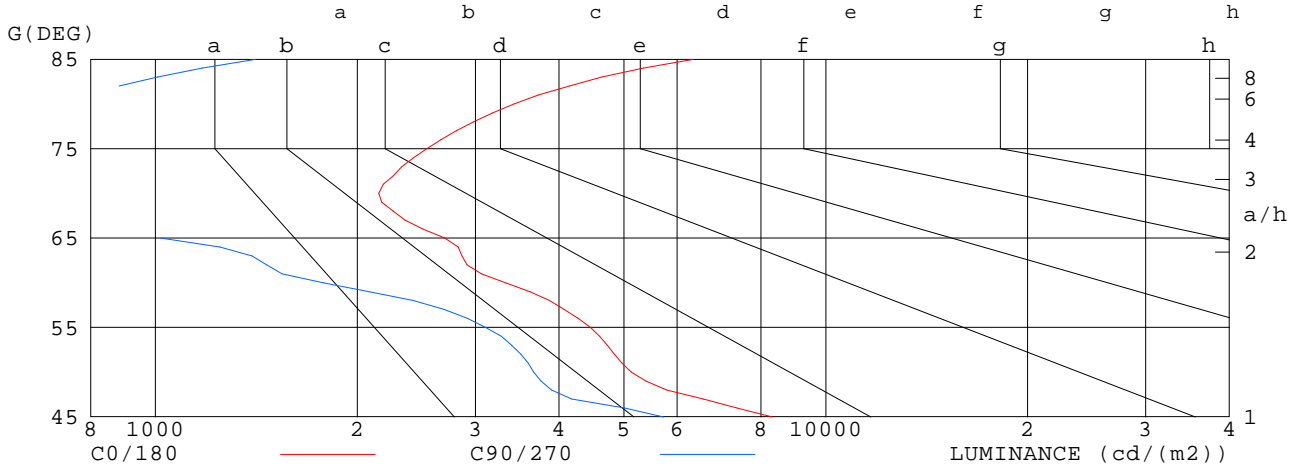
## LUMINANCE LIMITATION CURVES

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): 3500</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								
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/m2		
G (DEG)	C0/180	C90/270
85	6340	1409
80	3429	707
75	2538	474
70	2154	359
65	2702	1017
60	3328	1780
55	4453	3104
50	5129	3668
45	8318	5722

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

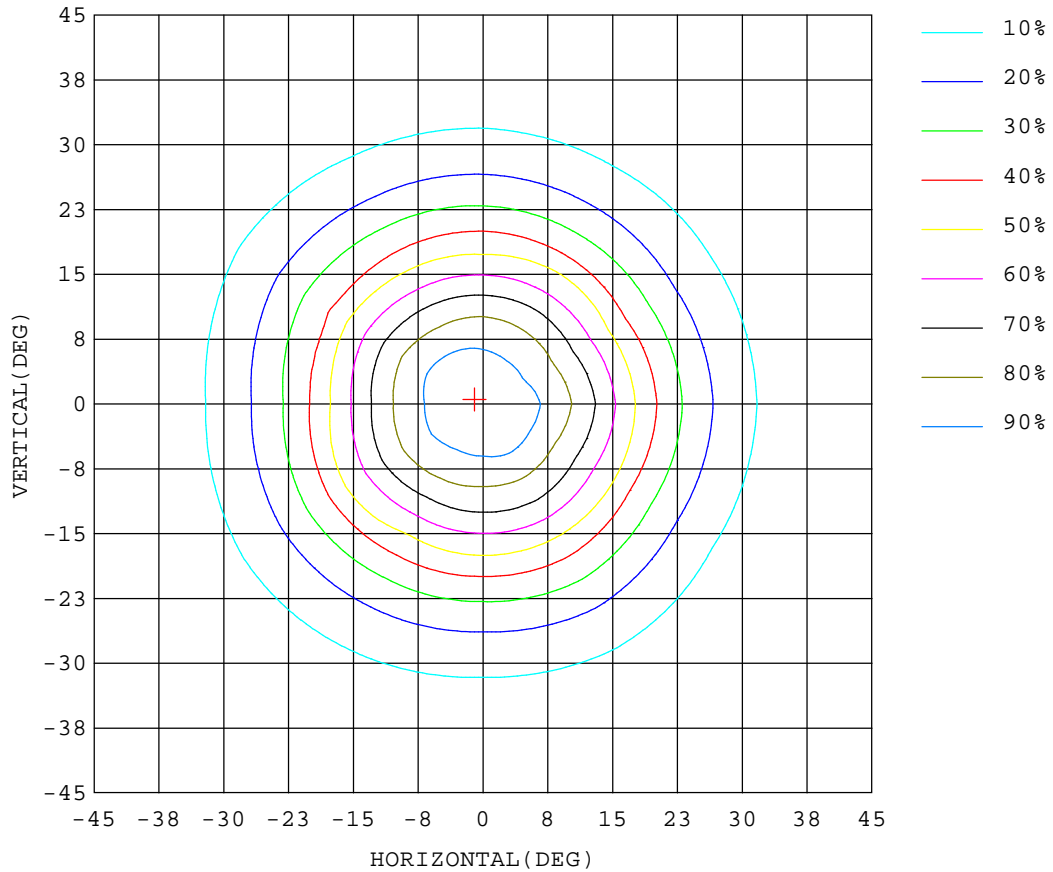
**Test Set:** 5.0deg/s C-Gamma (TYPE C)  
**Humidity:**65.0%  
**Test Distance:**5.900 m  
**Remarks:**

# ISOCANDELA DIAGRAM

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME: JXL-COB04-R15W-5CCT-4RR-SM-BK</b>		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>CCT(K): 3500</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>

UNIT: cd



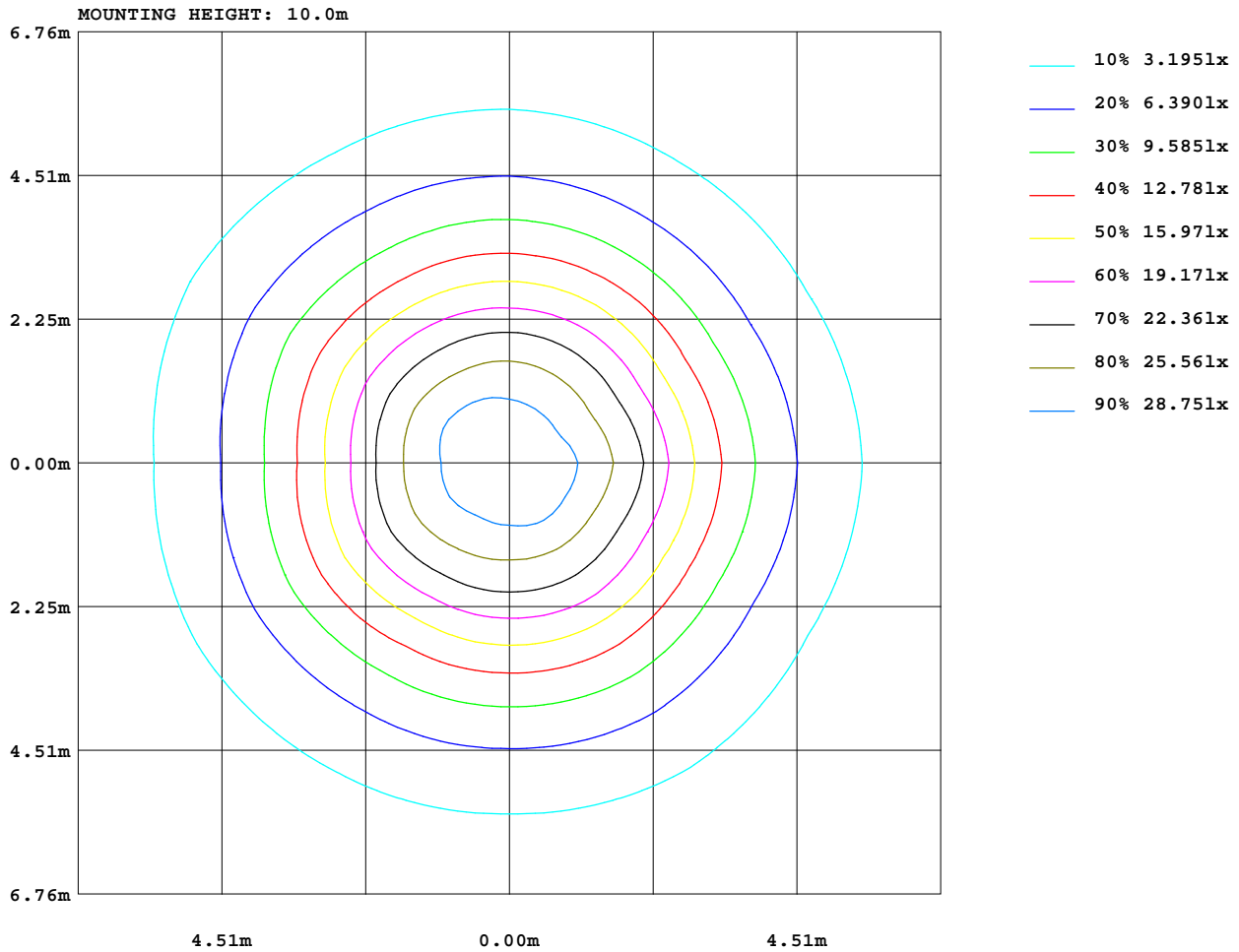
**Test System:**HOPOO HPG1800  
**Temperature:**25.3DEG  
**Operators:**  
**Test Date:**2024/02/02

**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): 3500</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): 3500</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	0.07	0.09	0.10	0.11	0.13	0.17	0.25	0.33	0.40	0.39	0.32	0.23	0.16	0.11	0.10	0.09	0.07	0.06	3.19	3.19
40	0.09	0.11	0.13	0.19	0.29	0.44	0.66	0.85	0.97	0.96	0.80	0.59	0.38	0.24	0.16	0.11	0.09	0.08	7.15	7.15
35	0.11	0.14	0.24	0.43	0.71	1.10	1.61	2.02	2.23	2.19	1.90	1.46	0.97	0.57	0.33	0.19	0.12	0.09	16.4	16.4
30	0.13	0.23	0.47	0.87	1.55	2.36	3.20	3.94	4.35	4.26	3.70	2.86	1.99	1.24	0.66	0.35	0.18	0.11	32.4	32.4
25	0.15	0.36	0.79	1.61	2.72	4.10	5.56	6.86	7.58	7.45	6.49	5.03	3.49	2.16	1.18	0.58	0.28	0.14	56.5	56.5
20	0.18	0.48	1.21	2.46	4.18	6.37	8.65	10.7	11.8	11.7	10.3	7.92	5.45	3.34	1.84	0.88	0.42	0.18	88.3	88.3
15	0.22	0.61	1.58	3.21	5.70	8.76	12.1	15.1	16.8	16.6	14.6	11.2	7.63	4.67	2.59	1.25	0.54	0.23	124	124
10	0.24	0.71	1.85	3.77	6.76	10.7	15.4	19.1	20.9	20.6	18.2	14.1	9.74	6.04	3.30	1.59	0.66	0.27	154	154
5	0.24	0.75	1.97	4.02	7.22	11.6	16.9	21.1	23.4	22.8	20.4	16.4	11.3	6.98	3.80	1.81	0.75	0.30	172	172
0	0.24	0.74	1.94	3.98	7.17	11.7	16.8	20.9	23.0	23.2	20.6	16.5	11.4	7.03	3.81	1.80	0.74	0.30	172	172
-5	0.22	0.68	1.79	3.66	6.60	10.7	15.2	18.8	20.6	20.6	18.4	14.5	10.0	6.15	3.33	1.57	0.64	0.25	154	154
-10	0.19	0.57	1.48	3.04	5.44	8.64	12.1	14.9	16.7	16.7	14.9	11.6	7.94	4.81	2.61	1.22	0.49	0.19	124	124
-15	0.15	0.42	1.10	2.28	3.96	6.14	8.50	10.5	11.9	11.9	10.6	8.41	5.78	3.47	1.83	0.82	0.34	0.14	88.5	88.5
-20	0.12	0.29	0.71	1.50	2.59	3.96	5.43	6.74	7.53	7.56	6.82	5.46	3.77	2.28	1.16	0.50	0.20	0.10	56.7	56.7
-25	0.09	0.18	0.42	0.83	1.50	2.30	3.15	3.86	4.26	4.26	3.87	3.13	2.20	1.31	0.66	0.29	0.12	0.08	32.5	32.5
-30	0.08	0.12	0.23	0.45	0.74	1.14	1.60	1.97	2.16	2.16	1.95	1.57	1.10	0.67	0.37	0.17	0.10	0.07	16.6	16.6
-35	0.07	0.10	0.14	0.23	0.38	0.55	0.68	0.82	0.90	0.89	0.81	0.67	0.53	0.34	0.20	0.12	0.08	0.06	7.56	7.56
-40	0.06	0.08	0.11	0.14	0.19	0.24	0.29	0.32	0.32	0.32	0.31	0.28	0.23	0.18	0.13	0.10	0.08	0.05	3.42	3.42
-45	0.06	0.08	0.11	0.14	0.19	0.24	0.29	0.32	0.32	0.32	0.31	0.28	0.23	0.18	0.13	0.10	0.08	0.05	3.42	3.42
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)	10	15	20	25	30	35	40	45			
$\Phi$ t	2.66	6.66	16.2	32.8	57.8	91.2	128	159	176	175	155	122	84.3	51.6	28.0	13.4	5.88	2.67	1346	
$\Phi$ a	2.66	6.66	16.2	32.8	57.8	91.2	128	159	176	175	155	122	84.3	51.6	28.0	13.4	5.88	2.67		1346

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

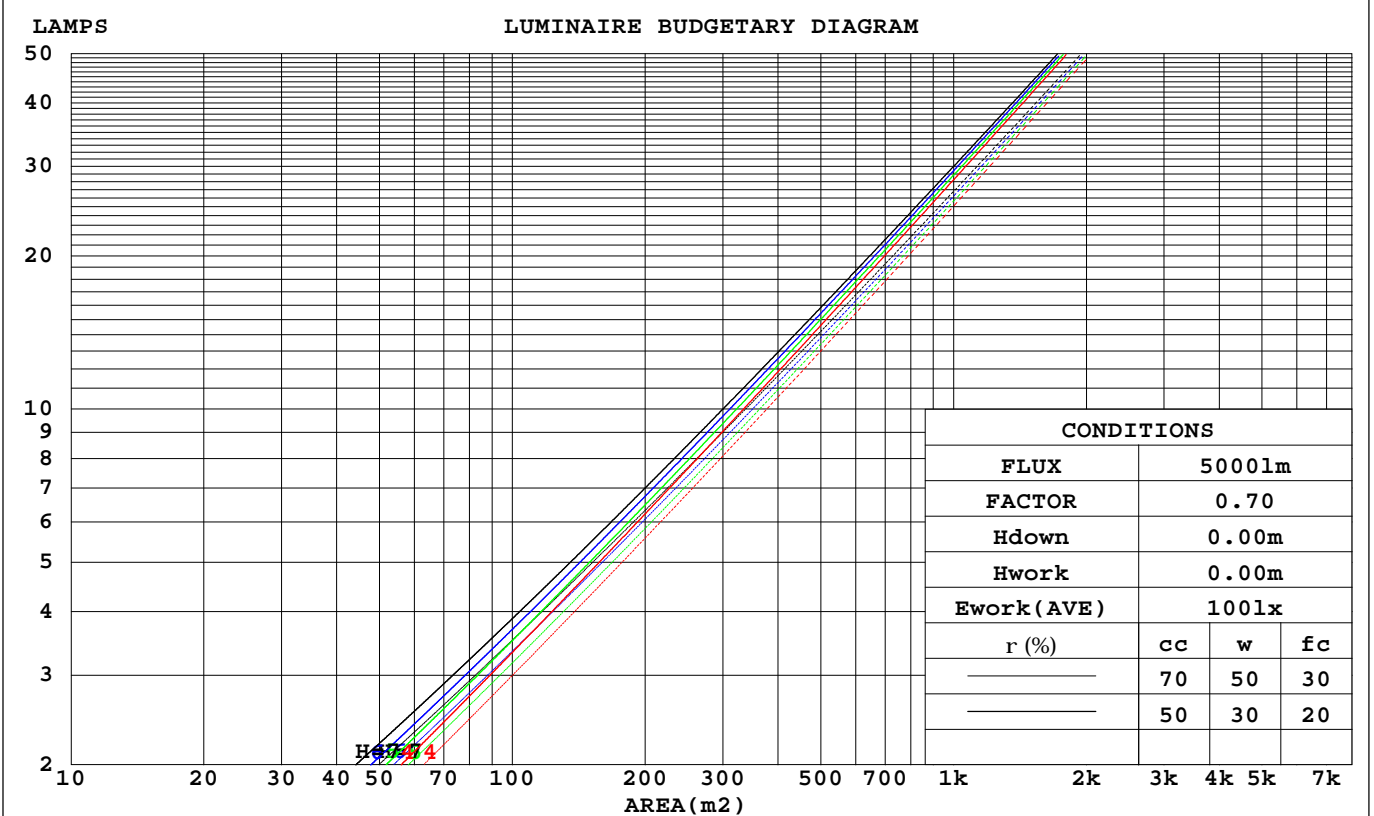
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.900 m  
 Remarks:

## 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): 3500		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	.98	.97	.96	.94
2.0	1.05	1.01	.98	1.03	.00	.97	.00	.97	.95	.97	.95	.93	.94	.92	.91	.89
3.0	.99	.95	.91	.98	.94	.91	.95	.92	.89	.93	.90	.88	.90	.88	.86	.85
4.0	.94	.89	.86	.93	.89	.85	.91	.87	.84	.89	.86	.83	.87	.84	.82	.81
5.0	.89	.84	.81	.88	.84	.80	.87	.83	.80	.85	.82	.79	.83	.80	.78	.77
6.0	.85	.80	.77	.84	.80	.76	.83	.79	.76	.81	.78	.75	.80	.77	.75	.73
7.0	.81	.76	.73	.81	.76	.73	.79	.75	.72	.78	.74	.72	.77	.74	.71	.70
8.0	.78	.73	.69	.77	.73	.69	.76	.72	.69	.75	.71	.69	.74	.71	.68	.67
9.0	.75	.70	.66	.74	.69	.66	.73	.69	.66	.72	.68	.66	.71	.68	.65	.64
10.0	.72	.67	.63	.71	.67	.63	.70	.66	.63	.70	.66	.63	.69	.65	.63	.62



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: JXL-COB04-R15W-5CCT-4RR-SM-BK</b>		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	CCT(K): 3500	<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	.160	.091	.029	.153	.087	.028	.140	.080	.026	.128	.074	.024	.117	.068	.022	
2.0	.150	.082	.025	.144	.079	.024	.133	.074	.023	.123	.069	.022	.114	.064	.020	
3.0	.141	.075	.022	.136	.073	.022	.127	.069	.021	.118	.065	.020	.110	.061	.019	
4.0	.133	.069	.020	.129	.068	.020	.121	.064	.019	.114	.061	.018	.107	.058	.018	
5.0	.126	.064	.019	.123	.063	.018	.116	.060	.018	.109	.058	.017	.103	.055	.017	
6.0	.120	.060	.017	.117	.059	.017	.111	.057	.017	.105	.055	.016	.100	.053	.016	
7.0	.115	.057	.016	.112	.056	.016	.106	.054	.016	.101	.052	.015	.097	.050	.015	
8.0	.110	.054	.015	.107	.053	.015	.102	.051	.015	.098	.050	.014	.094	.048	.014	
9.0	.105	.051	.014	.103	.050	.014	.098	.049	.014	.094	.047	.014	.091	.046	.013	
10.0	.101	.048	.013	.099	.048	.013	.095	.046	.013	.091	.045	.013	.088	.044	.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	.067	.067	.067	.021	.021	.021	
1.0	.178	.166	.154	.152	.142	.133	.104	.098	.092	.060	.057	.053	.019	.018	.017	
2.0	.161	.141	.123	.138	.121	.107	.095	.084	.074	.055	.049	.044	.018	.016	.014	
3.0	.148	.122	.101	.127	.105	.087	.087	.073	.061	.050	.043	.036	.016	.014	.012	
4.0	.137	.107	.084	.117	.092	.073	.081	.064	.051	.047	.038	.030	.015	.012	.010	
5.0	.127	.095	.071	.109	.082	.062	.075	.057	.044	.044	.034	.026	.014	.011	.009	
6.0	.119	.085	.061	.102	.074	.053	.070	.052	.037	.041	.030	.022	.013	.010	.007	
7.0	.112	.077	.053	.096	.067	.046	.067	.047	.033	.039	.028	.019	.012	.009	.006	
8.0	.106	.071	.047	.091	.061	.041	.063	.043	.029	.037	.025	.017	.012	.008	.006	
9.0	.101	.065	.042	.087	.057	.036	.060	.040	.026	.035	.024	.015	.011	.008	.005	
10.0	.096	.061	.038	.083	.053	.033	.057	.037	.023	.033	.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): 3500			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	13.4	14.2	13.6	14.3	14.5	14.1	14.9	14.4	15.1	15.3
3H	13.3	14.0	13.6	14.2	14.4	14.0	14.8	14.3	15.0	15.2
4H	13.3	14.0	13.6	14.2	14.4	14.0	14.7	14.2	14.9	15.1
6H	13.3	14.0	13.7	14.3	14.5	13.9	14.5	14.2	14.8	15.1
8H	13.4	14.1	13.8	14.3	14.6	13.9	14.5	14.2	14.8	15.0
12H	13.6	14.2	13.9	14.5	14.8	13.8	14.4	14.2	14.7	15.0
4H 2H	13.2	13.9	13.5	14.1	14.4	14.0	14.7	14.2	14.9	15.1
3H	13.1	13.7	13.4	14.0	14.3	13.9	14.5	14.2	14.8	15.1
4H	13.1	13.7	13.5	14.0	14.3	13.9	14.4	14.2	14.7	15.0
6H	13.2	13.7	13.6	14.0	14.4	13.8	14.3	14.2	14.7	15.0
8H	13.3	13.8	13.8	14.2	14.6	13.8	14.3	14.2	14.6	15.0
12H	13.6	14.0	14.0	14.4	14.8	13.8	14.2	14.3	14.6	15.0
8H 4H	13.0	13.5	13.4	13.8	14.2	13.7	14.2	14.2	14.6	15.0
6H	13.1	13.5	13.6	13.9	14.3	13.8	14.2	14.3	14.6	15.1
8H	13.3	13.6	13.7	14.0	14.5	13.9	14.3	14.4	14.7	15.1
12H	13.6	13.9	14.1	14.4	14.9	14.0	14.3	14.5	14.8	15.3
12H 4H	13.0	13.4	13.4	13.8	14.2	13.7	14.1	14.1	14.5	14.9
6H	13.1	13.4	13.6	13.9	14.3	13.8	14.1	14.3	14.6	15.0
8H	13.3	13.6	13.8	14.0	14.5	14.0	14.2	14.4	14.7	15.2
Variations with the observer position at spacings:										
S = 1.0H	+ 3.5 / - 3.3					+ 2.5 / - 3.6				
1.5H	+ 5.6 / - 3.4					+ 4.5 / - 3.5				
2.0H	+ 3.2 / - 2.1					+ 1.4 / - 2.2				

CIE Pub.117 Corrected 1346 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): 3500	<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	83	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	99	105	101	98	103	99	97	92
2.00	109	105	102	107	104	101	104	102	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			

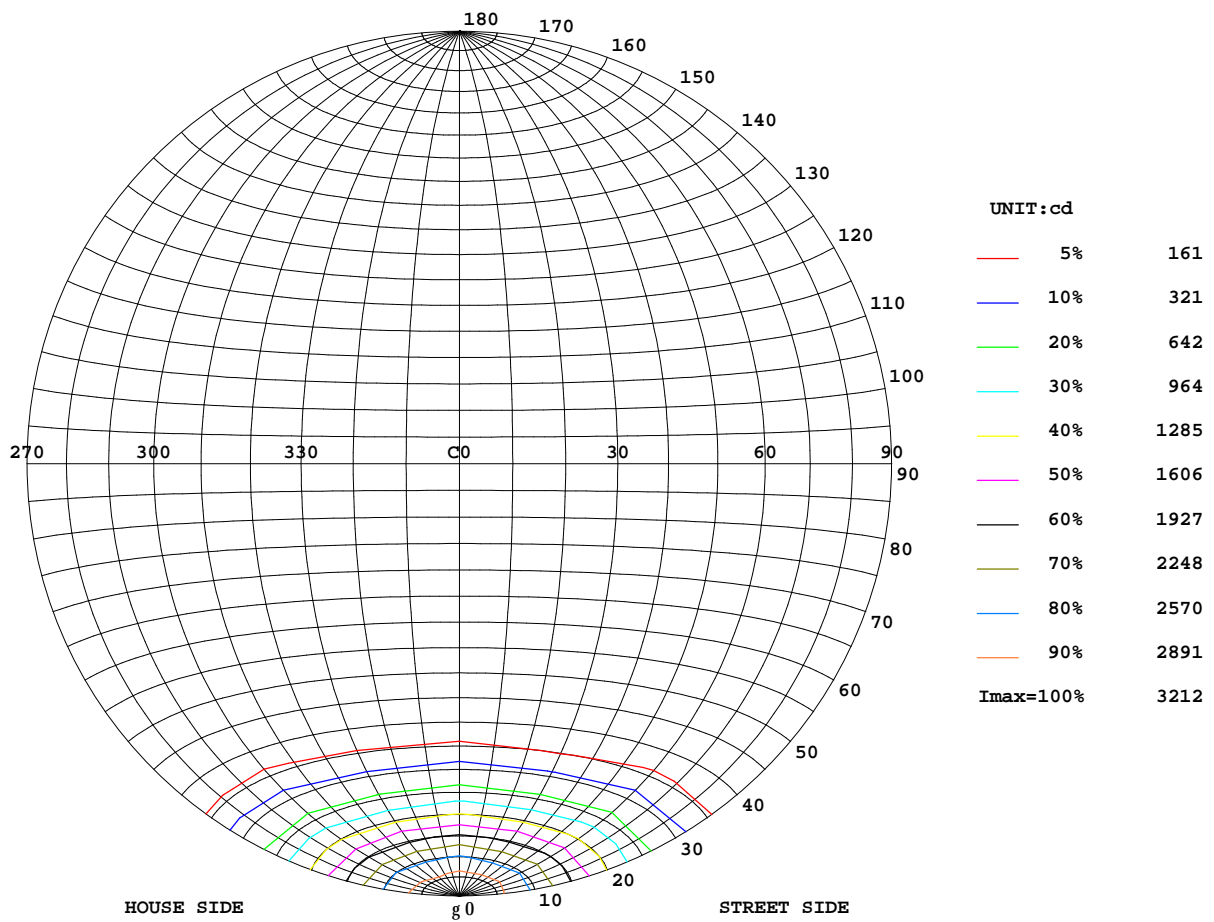
**Test System:**HOPOO HPG1800  
**Temperature:**25.3DEG  
**Operators:**  
**Test Date:**2024/02/02

**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: JXL-COB04-R15W-5CCT-4RR-SM-BK</b>		<b>TYPE:</b>	<b>WEIGHT:</b>
<b>SPECIFICATION:</b>	<b>CCT(K): 3500</b>	<b>DIMENSION:</b>	<b>SERIAL No.:</b>



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

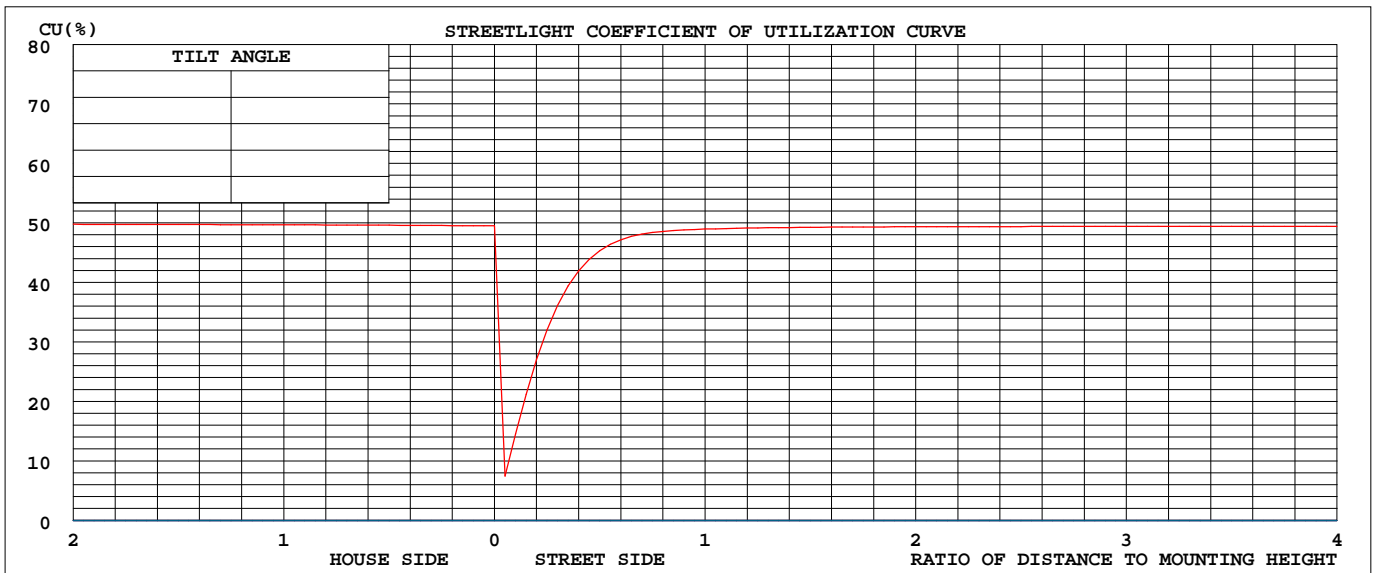
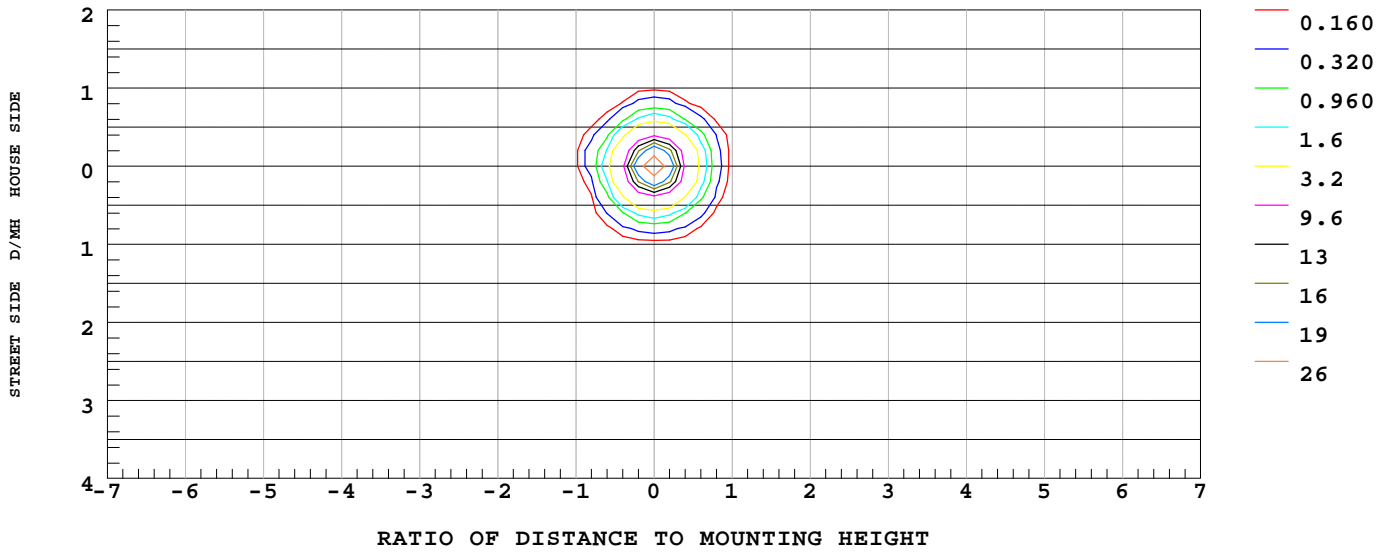
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:5.900 m  
 Remarks:

# ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: JXL-COB04-R15W-5CCT-4RR-SM-BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3500	DIMENSION:	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 31.95 lx



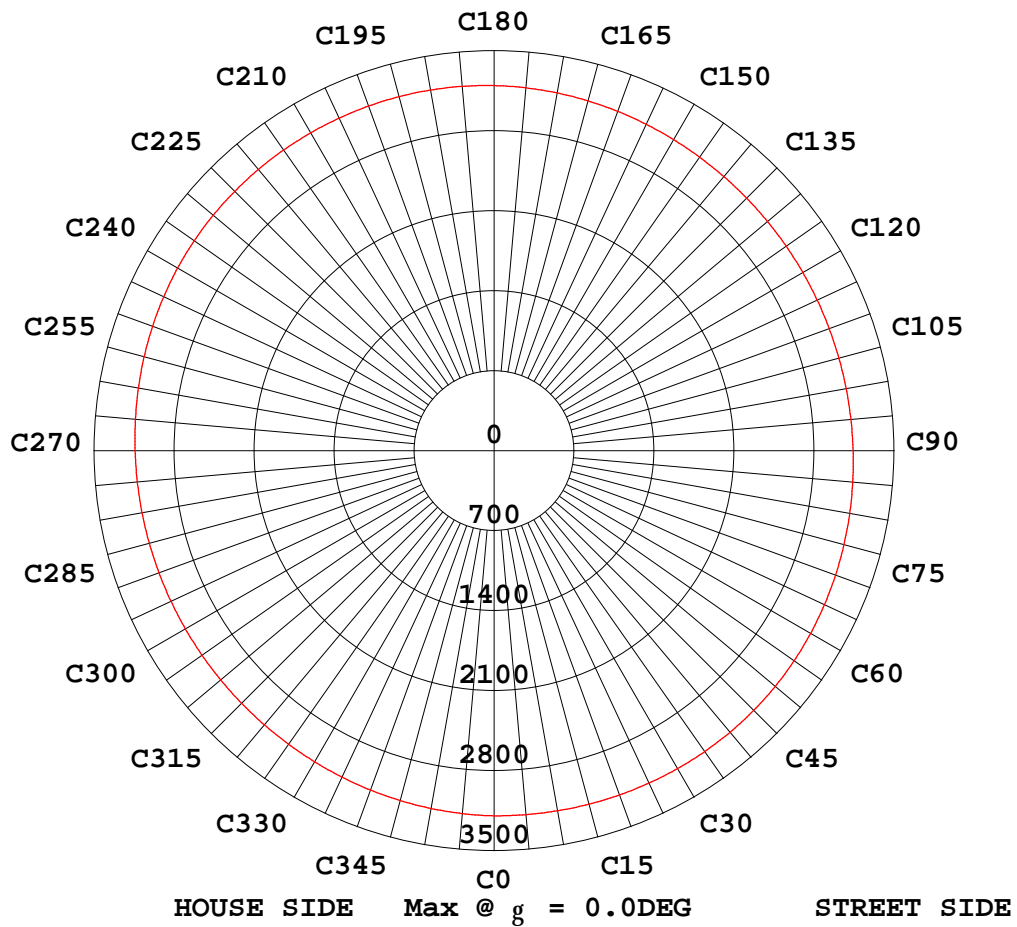
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2024/02/02

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

# ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: JXL-COB04-R15W-5CCT-4RR-SM-BK		TYPE:	WEIGHT:
SPECIFICATION:	CCT(K): 3500	DIMENSION:	SERIAL No.:



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): 3500</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	3195	3212	3199	3142	3120	3144	3195	3212	3199	3142	3120	3144
5.0	3026	3005	3005	2967	2947	3004	3000	3066	3034	2963	2940	2913
10.0	2586	2506	2536	2519	2553	2625	2603	2644	2587	2569	2529	2495
15.0	1967	1896	1933	1919	1917	2013	1956	2038	1947	1906	1885	1850
20.0	1294	1238	1298	1277	1290	1361	1287	1297	1300	1276	1233	1199
25.0	779	725	786	761	770	827	780	862	793	769	722	699
30.0	414	374	422	401	423	454	426	485	430	412	377	368
35.0	189	153	198	194	203	222	201	245	204	200	196	174
40.0	84.4	56.1	85.4	67.7	90.0	85.0	69.0	104	68.8	88.4	57.3	76.7
45.0	33.3	19.8	33.3	22.9	35.9	29.2	24.4	38.2	22.8	32.1	20.3	30.8
50.0	18.6	12.1	20.1	13.3	20.9	15.0	15.0	21.7	14.0	17.7	11.8	17.4
55.0	14.4	9.25	16.5	10.0	16.3	11.3	10.4	16.8	10.1	9.81	8.00	13.5
60.0	9.43	4.49	11.2	5.04	10.2	5.46	4.38	10.3	4.62	7.03	3.58	8.38
65.0	6.47	2.26	7.65	2.43	7.10	3.09	2.81	7.34	2.95	4.62	2.26	6.23
70.0	4.17	0.73	4.28	0.70	4.14	0.70	1.00	4.42	0.84	4.10	0.80	4.14
75.0	3.72	0.70	3.72	0.70	3.65	0.70	1.04	3.93	0.87	3.75	0.87	3.75
80.0	3.37	0.70	3.37	0.70	3.30	0.70	1.07	3.62	0.87	3.44	0.87	3.48
85.0	3.13	0.73	3.09	0.70	3.06	0.70	1.11	3.34	0.91	3.20	0.91	3.20
90.0	2.88	0.77	2.85	0.73	2.81	0.70	1.14	3.13	0.94	3.02	0.91	3.02
95.0	2.71	0.77	2.68	0.73	2.64	0.73	1.14	2.92	0.94	2.85	0.94	2.81
100.0	2.54	0.80	2.50	0.77	2.47	0.77	1.18	2.74	0.97	2.68	0.94	2.64
105.0	2.43	0.84	2.36	0.80	2.33	0.80	1.18	2.57	0.97	2.54	0.94	2.50
110.0	2.29	0.87	2.26	0.84	2.22	0.84	1.18	2.43	0.97	2.40	0.94	2.36
115.0	2.19	0.91	2.15	0.87	2.12	0.87	1.21	2.29	0.97	2.26	0.94	2.22
120.0	2.12	0.94	2.08	0.91	2.05	0.91	1.25	2.19	0.97	2.12	0.94	2.12
125.0	2.08	1.04	2.01	1.00	2.01	0.97	1.28	2.12	1.04	2.05	1.00	2.05
130.0	2.12	1.25	2.08	1.14	2.01	1.11	1.42	2.08	1.14	2.05	1.14	2.08
135.0	2.29	1.53	2.22	1.42	2.15	1.35	1.67	2.19	1.39	2.15	1.35	2.22
140.0	2.57	2.01	2.54	1.84	2.43	1.74	2.08	2.40	1.77	2.40	1.74	2.50
145.0	3.06	2.64	3.02	2.43	2.85	2.29	2.68	2.81	2.33	2.81	2.33	2.95
150.0	3.75	3.48	3.68	3.20	3.51	3.02	3.44	3.48	3.06	3.44	3.06	3.62
155.0	4.59	4.35	4.49	4.07	4.24	3.86	4.38	4.24	3.89	4.21	3.89	4.42
160.0	5.49	5.25	5.36	4.94	5.08	4.73	5.36	5.11	4.83	5.11	4.80	5.29
165.0	6.37	6.12	6.16	5.77	5.81	5.63	6.30	5.98	5.74	5.98	5.67	6.05
170.0	7.10	6.78	6.85	6.47	6.47	6.33	7.13	6.78	6.50	6.78	6.37	6.71
175.0	7.65	7.20	7.31	6.99	6.99	6.92	7.72	7.37	7.06	7.31	6.85	7.20
180.0	7.97	7.62	7.24	7.51	6.96	7.34	7.97	7.62	7.24	7.51	6.96	7.34

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: