LAMP PHOTOMETRIC REPORT

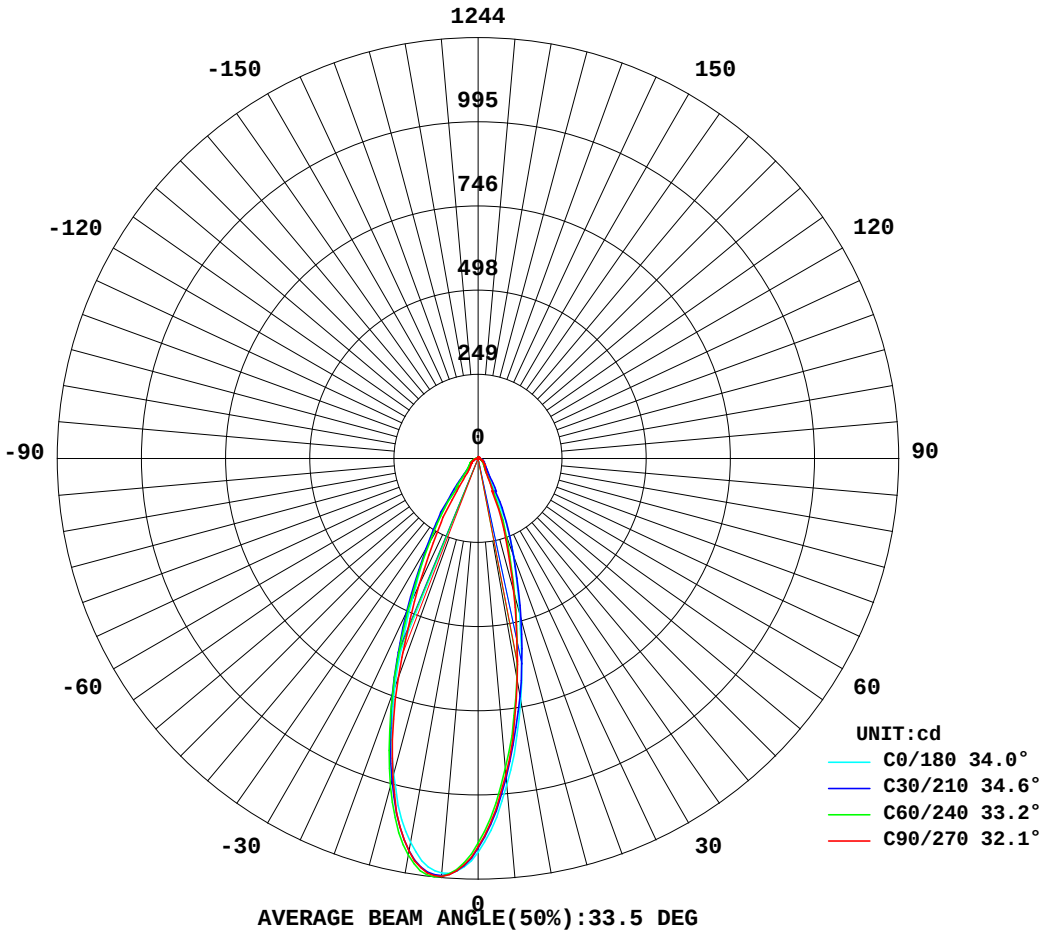
MODEL: JXL-COB02-S08W-CCT-30K

POWER: 8W **VOLTAGE: 122V** **WORKING VOLTAGE: 121.1V**

MANUFACTURER:

TOTAL FLUX: 588.12 lm **Efficiency: 77.282 lm/W**

Test: U: 121.0V I: 0.065A P: 7.610W PF: 0.953



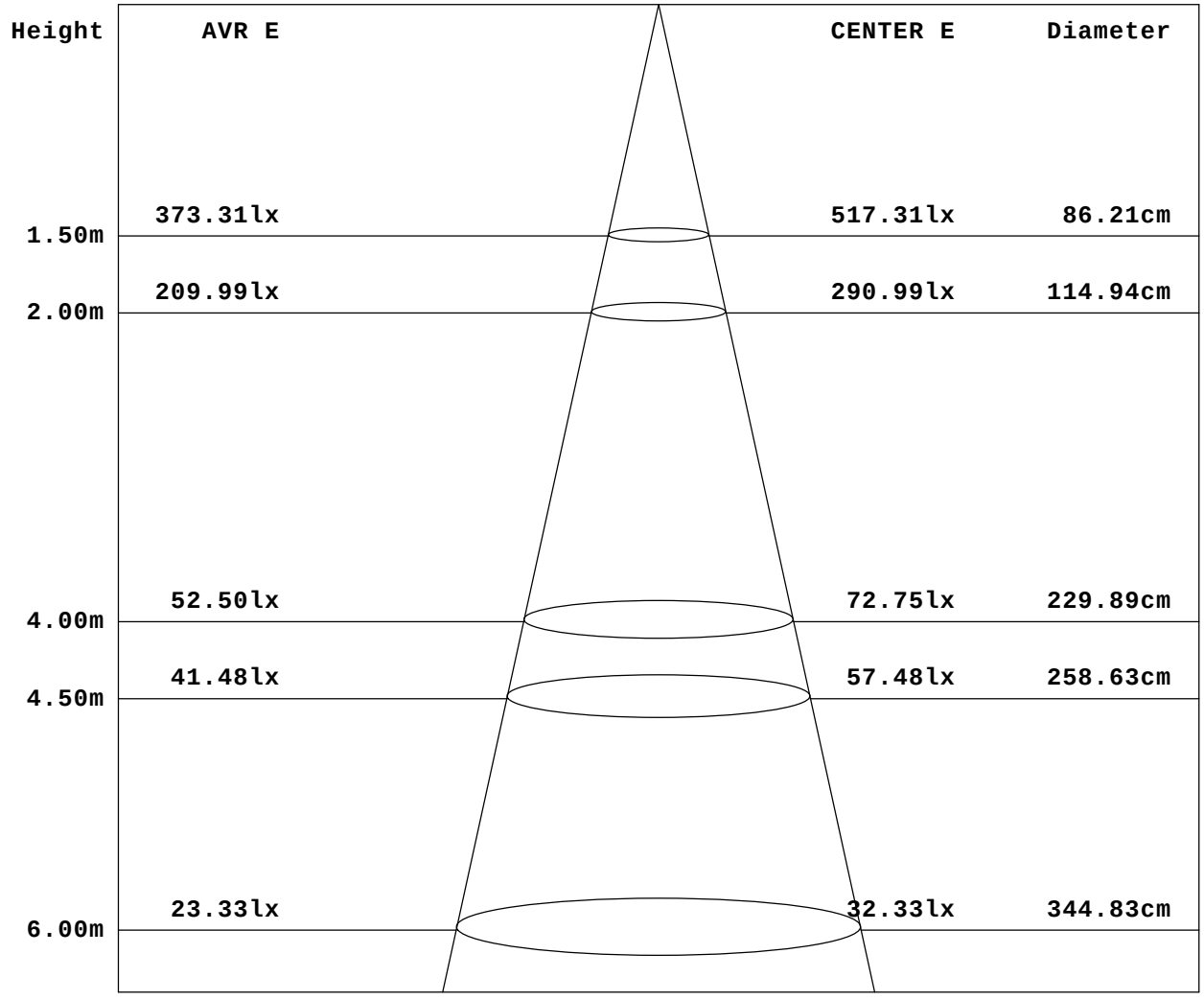
AVERAGE BEAM ANGLE(50%):33.5 DEG

Test System:HOPOO HPG1800 **Test Set: 5.0deg/s C-Gamma (TYPE C)**
Temperature:25.3DEG **Humidity:65.0%**
Operators: **Test Distance:5.900 m**
Test Date:2022年08月02日 **Remarks:**

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:	Address:	
NAME: JXL-COB02-S08W-CCT-30K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Angle:32.1deg

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年08月02日

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

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: JXL-COB02-S08W-CCT-30K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	zone	total
5.0	1230	1239	1241	1229	970.8	936.3	940.2	972.8	0- 5	26.87	26.87
10.0	1153	1184	1178	1149	727.1	687.8	665.4	732.0	5- 10	72.54	99.42
15.0	965.3	993.9	974.9	942.6	475.2	456.3	408.2	493.5	10- 15	97.47	196.8
20.0	723.1	741.7	689.0	678.1	310.4	276.7	225.1	301.1	15- 20	98.73	295.6
25.0	463.7	495.6	414.2	432.3	150.3	146.2	95.62	167.1	20- 25	82.08	377.7
30.0	302.2	297.5	217.6	259.6	60.04	73.83	50.30	83.21	25- 30	57.55	435.2
35.0	164.3	175.0	76.99	121.3	39.05	43.66	37.94	46.87	30- 35	37.26	472.5
40.0	73.90	78.68	41.70	62.11	28.78	32.89	30.73	34.20	35- 40	21.69	494.2
45.0	46.95	44.48	32.75	39.70	26.24	27.36	27.95	27.49	40- 45	14.82	509.0
50.0	34.39	34.70	27.63	30.47	21.96	23.60	23.35	24.45	45- 50	12.49	521.5
55.0	30.98	28.77	25.16	26.52	17.75	18.31	19.14	19.75	50- 55	11.00	532.5
60.0	27.53	26.00	21.86	23.02	14.58	14.84	15.80	15.85	55- 60	10.00	542.5
65.0	22.13	21.18	17.16	18.39	11.45	11.57	11.97	12.58	60- 65	8.685	551.2
70.0	18.48	16.79	14.09	14.56	8.598	8.458	8.249	9.363	65- 70	7.083	558.3
75.0	13.99	13.38	10.72	11.26	5.743	5.882	4.908	6.526	70- 75	5.583	563.9
80.0	9.468	9.642	7.101	8.615	2.819	3.794	3.585	4.299	75- 80	4.108	568.0
85.0	5.465	6.248	3.515	6.213	1.879	2.541	3.272	2.767	80- 85	2.795	570.8
90.0	3.689	3.916	1.636	3.863	1.879	2.419	3.098	2.471	85- 90	1.914	572.7
95.0	3.411	2.575	1.496	2.523	1.914	2.367	2.958	2.384	90- 95	1.469	574.2
100.0	3.237	2.367	1.496	2.367	1.914	2.280	2.854	2.297	95-100	1.296	575.4
105.0	3.098	2.280	1.531	2.280	1.949	2.227	2.715	2.227	100-105	1.235	576.7
110.0	2.958	2.227	1.531	2.227	1.984	2.175	2.645	2.175	105-110	1.177	577.9
115.0	2.854	2.175	1.566	2.193	2.018	2.158	2.541	2.123	110-115	1.119	579.0
120.0	2.749	2.140	1.566	2.158	2.018	2.140	2.506	2.106	115-120	1.057	580.0
125.0	2.680	2.123	1.601	2.106	2.088	2.140	2.436	2.088	120-125	0.995	581.0
130.0	2.645	2.123	1.636	2.106	2.193	2.193	2.401	2.123	125-130	0.936	582.0
135.0	2.610	2.123	1.705	2.123	2.332	2.297	2.471	2.210	130-135	0.882	582.9
140.0	2.610	2.158	1.775	2.158	2.575	2.436	2.610	2.367	135-140	0.837	583.7
145.0	2.715	2.280	1.914	2.280	2.854	2.697	2.854	2.610	140-145	0.802	584.5
150.0	2.854	2.454	2.123	2.471	3.202	2.993	3.132	2.906	145-150	0.770	585.3
155.0	3.063	2.680	2.436	2.715	3.550	3.324	3.446	3.254	150-155	0.730	586.0
160.0	3.341	2.976	2.784	3.028	3.898	3.655	3.759	3.568	155-160	0.669	586.7
165.0	3.620	3.306	3.132	3.376	4.212	3.916	4.037	3.863	160-165	0.577	587.2
170.0	3.933	3.637	3.481	3.689	4.420	4.072	4.246	4.037	165-170	0.449	587.7
175.0	4.177	3.898	3.794	3.933	4.525	4.142	4.316	4.142	170-175	0.286	588.0
180.0	4.351	4.107	4.037	4.124	4.629	4.072	4.177	4.072	175-180	0.098	588.1
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

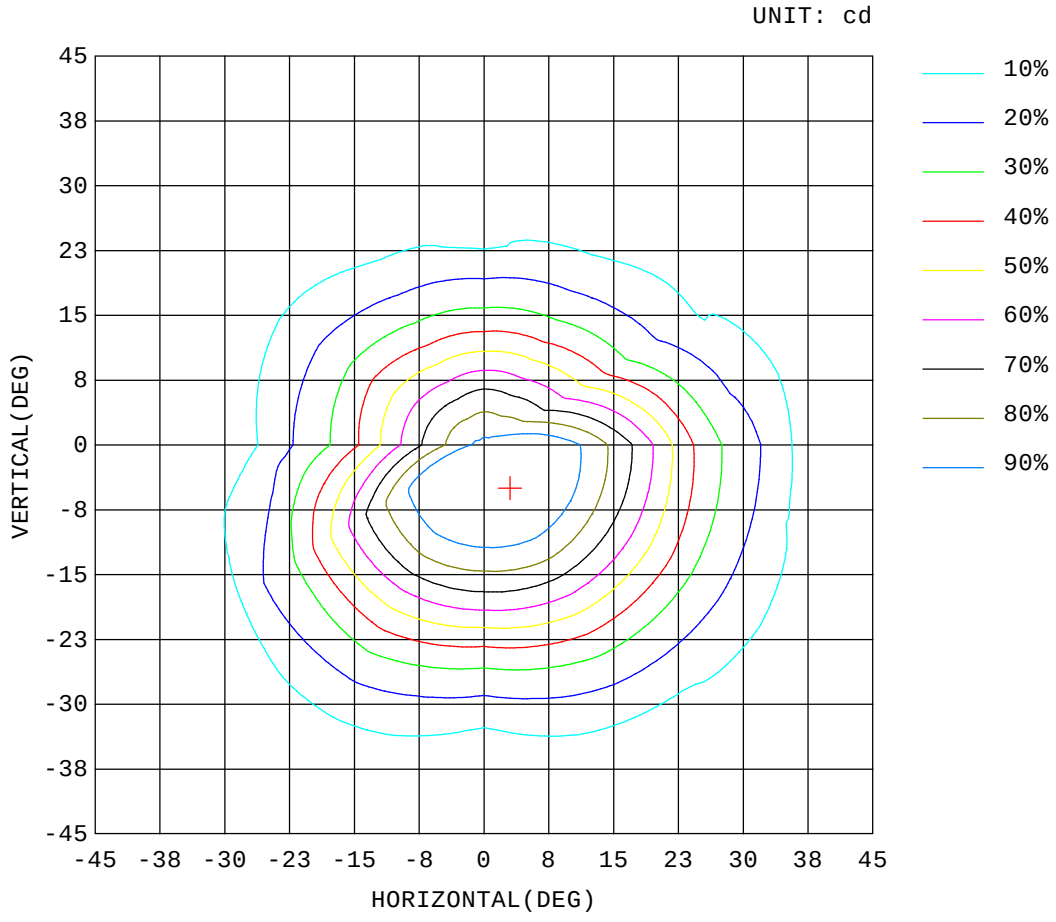
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年08月02日

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-COB02-S08W-CCT-30K	**TYPE:**	**WEIGHT:**
SPECIFICATION:	**DIMENSION:**	**SERIAL No.:**



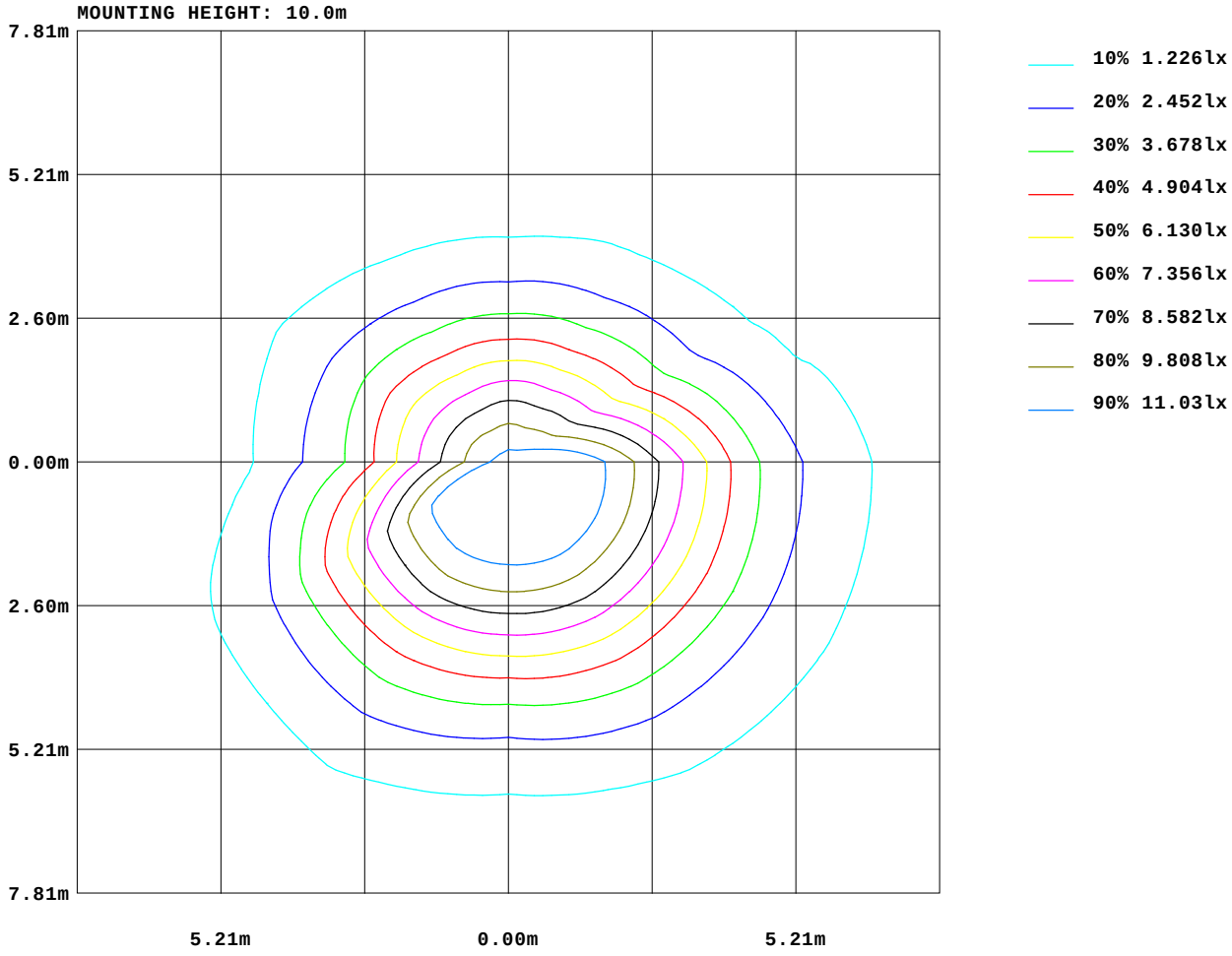
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年08月02日

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-COB02-S08W-CCT-30K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年08月02日

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

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:	**Address:**	
NAME: JXL-COB02-S08W-CCT-30K	**TYPE:**	**WEIGHT:**
SPECIFICATION:	**DIMENSION:**	**SERIAL No.:**

AREA FLUX DIAGRAM — UNIT:lm

VERTICAL(DEG)	-45	-40	-35	-30	-25	-20	-15	-10	10	15	20	25	30	35	40	45	Φ t	Φ a
45	0.10	0.12	0.14	0.15	0.16	0.18	0.19	0.21	0.22	0.22	0.21	0.19	0.18	0.16	0.16	0.15	0.13	0.11	2.97	2.97
40	0.12	0.15	0.16	0.18	0.18	0.20	0.22	0.24	0.25	0.26	0.24	0.22	0.20	0.19	0.18	0.17	0.15	0.13	3.43	3.43
35	0.14	0.17	0.18	0.21	0.23	0.24	0.27	0.30	0.32	0.33	0.31	0.28	0.25	0.23	0.21	0.19	0.17	0.15	4.16	4.16
30	0.15	0.18	0.22	0.26	0.30	0.33	0.37	0.46	0.52	0.53	0.50	0.41	0.36	0.32	0.27	0.22	0.19	0.16	5.75	5.75
25	0.16	0.20	0.26	0.34	0.46	0.59	0.78	1.02	1.12	1.15	1.10	0.89	0.68	0.52	0.37	0.28	0.22	0.18	10.3	10.3
20	0.16	0.21	0.30	0.49	0.77	1.17	1.63	2.04	2.32	2.36	2.13	1.77	1.33	0.89	0.60	0.40	0.28	0.21	19.0	19.0
15	0.16	0.21	0.32	0.60	1.17	1.89	2.64	3.36	3.93	4.00	3.53	2.87	2.10	1.54	1.06	0.66	0.38	0.24	30.7	30.7
	0.16	0.21	0.34	0.67	1.46	2.46	3.73	4.94	5.87	5.99	5.27	4.34	3.46	2.53	1.67	1.01	0.47	0.27	44.9	44.9
	0.16	0.21	0.32	0.70	1.64	2.76	4.33	6.13	7.56	7.92	7.54	6.71	5.30	3.63	2.27	1.36	0.58	0.31	59.4	59.4
	0.16	0.22	0.38	0.88	2.03	3.50	5.50	7.80	9.09	9.30	9.09	7.90	6.11	4.12	2.53	1.49	0.64	0.32	71.1	71.1
	0.17	0.26	0.49	1.19	2.48	4.44	6.71	8.46	9.20	9.27	8.75	7.44	5.69	3.85	2.39	1.39	0.61	0.31	73.1	73.1
-15	0.17	0.27	0.49	1.29	2.49	4.24	5.96	7.42	8.15	8.22	7.65	6.39	4.86	3.32	2.08	1.18	0.56	0.28	65.0	65.0
-20	0.17	0.25	0.45	1.05	2.09	3.26	4.61	5.69	6.28	6.35	5.90	4.95	3.74	2.57	1.67	0.94	0.45	0.25	50.7	50.7
-25	0.16	0.22	0.40	0.71	1.46	2.33	3.23	3.83	4.13	4.18	3.96	3.40	2.59	1.82	1.19	0.67	0.35	0.22	34.9	34.9
-30	0.14	0.20	0.30	0.52	0.89	1.51	2.00	2.28	2.36	2.39	2.34	2.07	1.65	1.15	0.73	0.43	0.27	0.19	21.4	21.4
-35	0.13	0.18	0.25	0.36	0.57	0.84	1.04	1.15	1.13	1.14	1.16	1.05	0.86	0.64	0.44	0.30	0.22	0.17	11.6	11.6
-40	0.13	0.16	0.22	0.28	0.37	0.47	0.53	0.52	0.46	0.46	0.51	0.52	0.46	0.38	0.30	0.24	0.19	0.16	6.37	6.37
-45	0.13	0.16	0.19	0.24	0.29	0.31	0.32	0.32	0.29	0.29	0.31	0.32	0.31	0.29	0.25	0.21	0.17	0.15	4.55	4.55
HORIZONTAL(DEG)																				
Φ t	2.68	3.57	5.40	10.1	19.0	30.7	44.1	56.2	63.2	64.4	60.5	51.7	40.1	28.1	18.3	11.3	6.04	3.81	588	
Φ a	2.68	3.57	5.40	10.1	19.0	30.7	44.1	56.2	63.2	64.4	60.5	51.7	40.1	28.1	18.3	11.3	6.04	3.81		588

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年08月02日

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

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

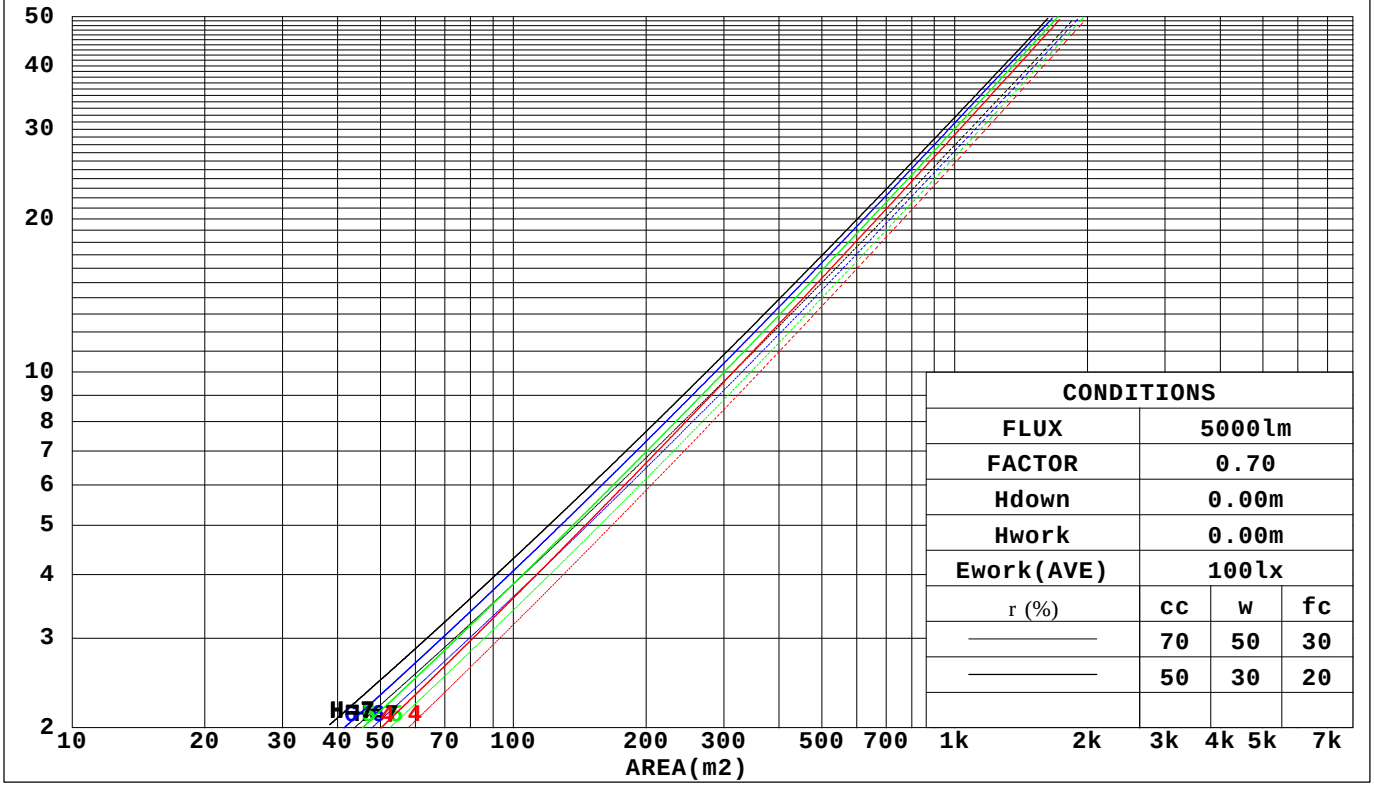
Report number:

MANUFACTURER:	Address:	
NAME: JXL-COB02-S08W-CCT-30K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

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
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.04	1.04	1.04	.00	.00	.00	.97
1.0	1.09	1.07	1.04	1.07	1.04	1.02	1.02	1.00	.99	.98	.97	.95	.94	.93	.92	.90
2.0	1.01	.97	.94	.00	.96	.92	.96	.93	.90	.92	.90	.88	.89	.87	.85	.84
3.0	.95	.90	.86	.93	.88	.85	.90	.86	.83	.87	.84	.81	.85	.82	.80	.78
4.0	.89	.83	.79	.88	.82	.78	.85	.81	.77	.83	.79	.76	.81	.77	.75	.73
5.0	.84	.78	.74	.83	.77	.73	.80	.76	.72	.79	.75	.71	.77	.73	.71	.69
6.0	.79	.73	.69	.78	.73	.69	.76	.72	.68	.75	.71	.67	.73	.70	.67	.65
7.0	.75	.69	.65	.74	.69	.65	.73	.68	.64	.71	.67	.64	.70	.66	.63	.62
8.0	.71	.66	.62	.71	.65	.62	.69	.65	.61	.68	.64	.61	.67	.63	.60	.59
9.0	.68	.62	.59	.67	.62	.58	.66	.62	.58	.65	.61	.58	.64	.60	.58	.56
10.0	.65	.60	.56	.65	.59	.56	.64	.59	.56	.63	.58	.55	.62	.58	.55	.54

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年08月02日

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

WEC AND CCEC

Report number:

MANUFACTURER:	Address:	
NAME: JXL-COB02-S08W-CCT-30K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

r_{cc}	80%			70%			50%			30%			10%			0
r_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.193	.110	.035	.186	.106	.034	.172	.098	.031	.159	.091	.029	.147	.085	.027	
2.0	.180	.099	.030	.173	.096	.029	.161	.090	.028	.150	.084	.026	.140	.079	.025	
3.0	.168	.089	.027	.162	.087	.026	.152	.082	.025	.142	.078	.024	.133	.074	.023	
4.0	.157	.081	.024	.152	.080	.024	.143	.076	.023	.135	.072	.022	.127	.069	.021	
5.0	.147	.075	.022	.143	.073	.021	.135	.070	.021	.128	.067	.020	.121	.065	.019	
6.0	.139	.070	.020	.135	.068	.020	.128	.066	.019	.121	.063	.019	.115	.061	.018	
7.0	.131	.065	.018	.128	.064	.018	.122	.061	.018	.116	.059	.017	.110	.057	.017	
8.0	.124	.061	.017	.121	.060	.017	.116	.058	.017	.111	.056	.016	.106	.054	.016	
9.0	.118	.057	.016	.116	.056	.016	.111	.055	.015	.106	.053	.015	.101	.051	.015	
10.0	.113	.054	.015	.110	.053	.015	.106	.052	.015	.102	.050	.014	.097	.049	.014	

r_{cc}	80%			70%			50%			30%			10%			0
r_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.210	.210	.210	.180	.180	.180	.123	.123	.123	.071	.071	.071	.023	.023	.023	
1.0	.192	.177	.164	.165	.152	.141	.113	.105	.097	.065	.061	.057	.021	.019	.018	
2.0	.178	.153	.132	.152	.131	.114	.104	.091	.079	.060	.053	.047	.019	.017	.015	
3.0	.165	.134	.109	.142	.116	.095	.097	.080	.066	.056	.047	.039	.018	.015	.013	
4.0	.155	.119	.093	.133	.103	.080	.091	.072	.057	.053	.042	.033	.017	.014	.011	
5.0	.145	.108	.080	.125	.093	.070	.086	.065	.049	.050	.038	.029	.016	.012	.010	
6.0	.137	.098	.071	.118	.085	.061	.081	.060	.043	.047	.035	.026	.015	.011	.009	
7.0	.130	.091	.063	.112	.079	.055	.078	.055	.039	.045	.033	.023	.015	.011	.008	
8.0	.124	.085	.057	.107	.073	.050	.074	.051	.035	.043	.030	.021	.014	.010	.007	
9.0	.119	.079	.052	.102	.069	.046	.071	.048	.032	.041	.029	.019	.013	.009	.006	
10.0	.114	.075	.049	.098	.065	.042	.068	.046	.030	.040	.027	.018	.013	.009	.006	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年08月02日

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

Uncorrected UGR Table

Report number:

MANUFACTURER:	Address:	
NAME: JXL-COB02-S08W-CCT-30K	TYPE:	WEIGHT:
SPECIFICATION:	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	23.4	24.3	23.7	24.5	24.7	22.5	23.4	22.8	23.6	23.8
3H	24.5	25.3	24.8	25.6	25.8	23.7	24.5	24.0	24.8	25.0
4H	25.1	25.9	25.4	26.1	26.4	24.2	25.1	24.6	25.3	25.6
6H	25.6	26.3	25.9	26.6	26.9	24.7	25.5	25.1	25.8	26.1
8H	25.8	26.5	26.2	26.8	27.2	24.9	25.7	25.3	26.0	26.3
12H	26.0	26.7	26.4	27.0	27.4	25.1	25.8	25.4	26.1	26.4
4H 2H	23.7	24.5	24.1	24.8	25.1	23.0	23.8	23.3	24.1	24.4
3H	25.0	25.7	25.3	26.0	26.3	24.5	25.2	24.9	25.5	25.9
4H	25.7	26.3	26.1	26.7	27.1	25.3	26.0	25.7	26.3	26.7
6H	26.4	27.0	26.8	27.3	27.7	26.0	26.6	26.4	27.0	27.4
8H	26.7	27.2	27.1	27.6	28.0	26.3	26.8	26.7	27.2	27.7
12H	27.0	27.4	27.4	27.9	28.3	26.5	27.0	27.0	27.4	27.9
8H 4H	26.0	26.5	26.4	26.9	27.3	25.7	26.2	26.1	26.6	27.0
6H	26.8	27.2	27.3	27.7	28.2	26.7	27.1	27.1	27.6	28.0
8H	27.2	27.6	27.7	28.0	28.5	27.1	27.5	27.6	28.0	28.5
12H	27.6	27.9	28.1	28.4	28.9	27.5	27.8	28.0	28.3	28.9
12H 4H	26.0	26.5	26.5	26.9	27.4	25.7	26.2	26.2	26.6	27.0
6H	26.9	27.3	27.4	27.8	28.3	26.8	27.2	27.3	27.6	28.1
8H	27.4	27.7	27.9	28.2	28.7	27.3	27.7	27.8	28.2	28.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.4 / - 0.4					+ 0.2 / - 0.3				
1.5H	+ 0.8 / - 0.3					+ 0.3 / - 0.4				
2.0H	+ 0.2 / - 0.3					+ 0.3 / - 0.6				

CIE Pub.117 Corrected 588.1 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.8)

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年08月02日

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

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:	**Address:**	
NAME: JXL-COB02-S08W-CCT-30K	**TYPE:**	**WEIGHT:**
SPECIFICATION:	**DIMENSION:**	**SERIAL No.:**

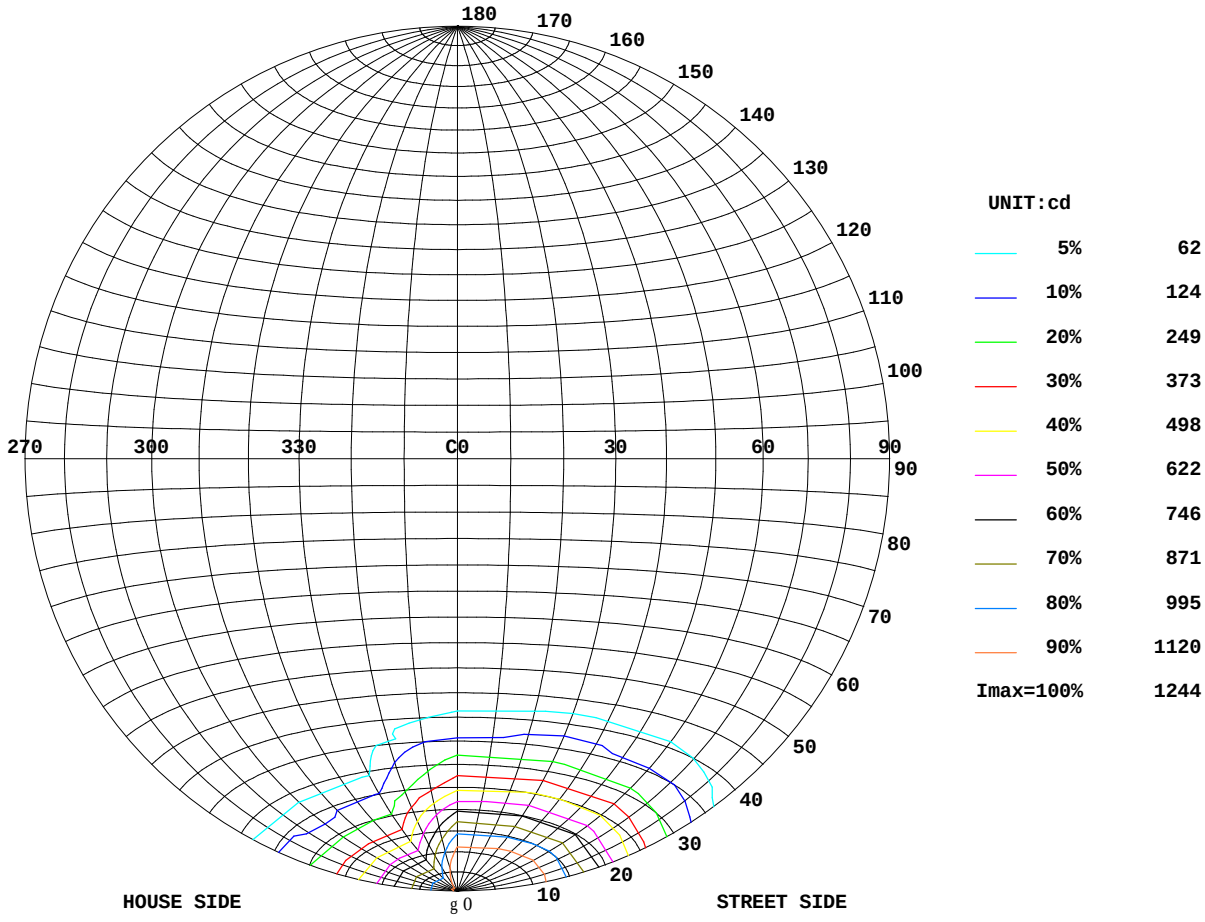
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	82	75	70	81	74	70	80	74	70	66
0.80	89	83	78	89	82	78	87	81	78	73
1.00	94	88	83	93	87	83	91	87	82	78
1.25	99	92	88	97	92	88	95	90	87	82
1.50	102	96	92	100	95	91	98	93	90	85
2.00	105	100	96	103	99	95	100	96	93	87
2.50	107	103	99	105	101	98	102	98	96	89
3.00	109	105	102	107	103	100	103	100	98	90
4.00	112	108	105	109	106	104	105	103	101	93
5.00	113	110	108	111	108	106	106	104	103	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

Test System:HOPOO HPG1800 **Test Set: 5.0deg/s C-Gamma (TYPE C)**
Temperature:25.3DEG **Humidity:65.0%**
Operators: **Test Distance:5.900 m**
Test Date:2022年08月02日 **Remarks:**

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: JXL-COB02-S08W-CCT-30K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



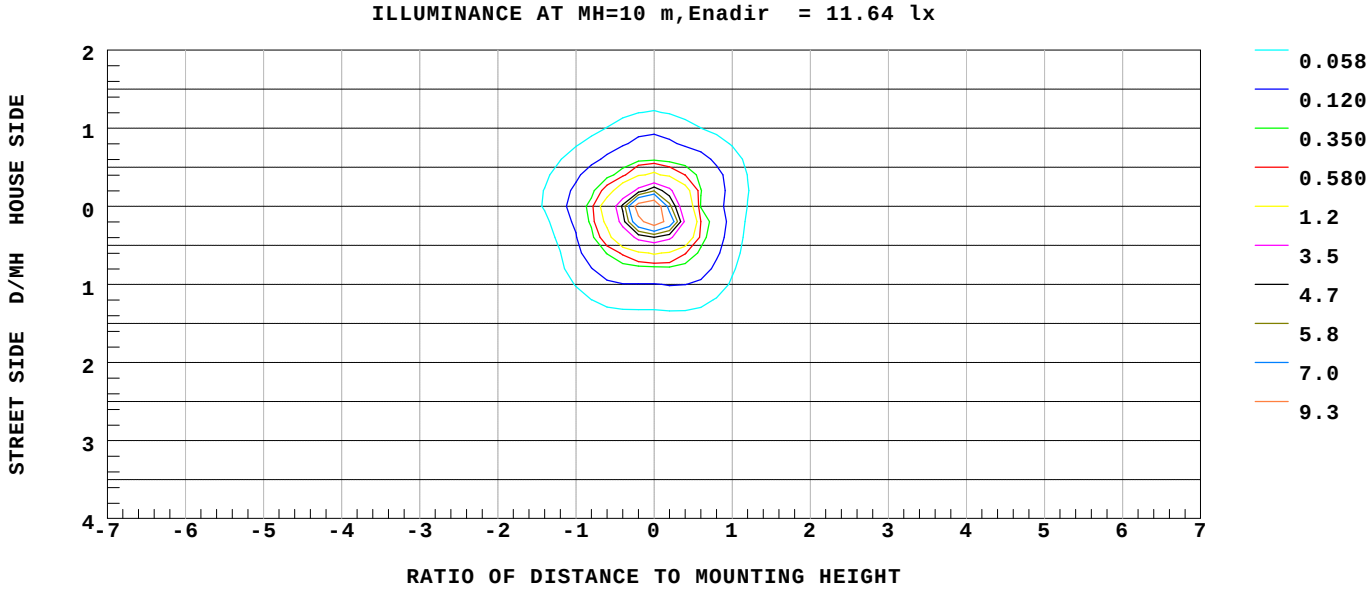
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年08月02日

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-COB02-S08W-CCT-30K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2022年08月02日

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