

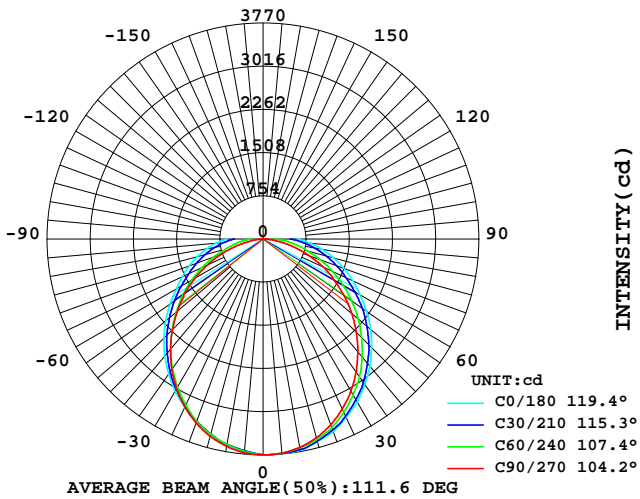
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

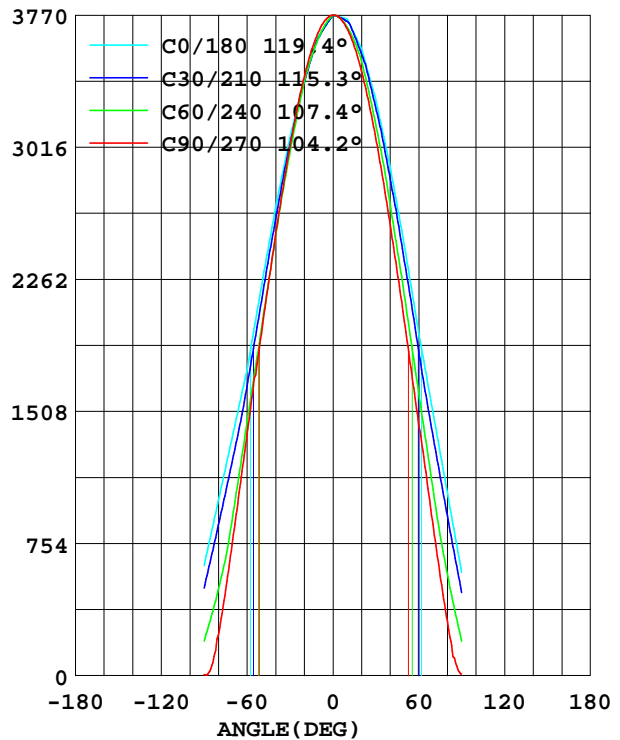
MANUFACTURER:	Address:		
NAME: 1.8M 98W	TYPE:1.8M	WEIGHT:	
SPECIFICATION:	DIMENSION:	SERIAL No.:201705240001	

DATA OF LAMP		Imax(cd)	3770	S/MH(C0/180)	1.22
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.20
NOMINAL POWER(W)	98	TOTAL FLUX(lm)	11132	Voltage(V)	220.3
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	113.5	Current(A)	0.449
NOMINAL FLUX(lm)	11132.0	η up(%)	0.0	Power(W)	98.11
LAMPS QUANTITY	1	η down(%)	100.0	Power Factor(PF)	0.990
TEST VOLTAGE(V)	220.4	Effective Flux(lm)	11044.9	EEI	0.121

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



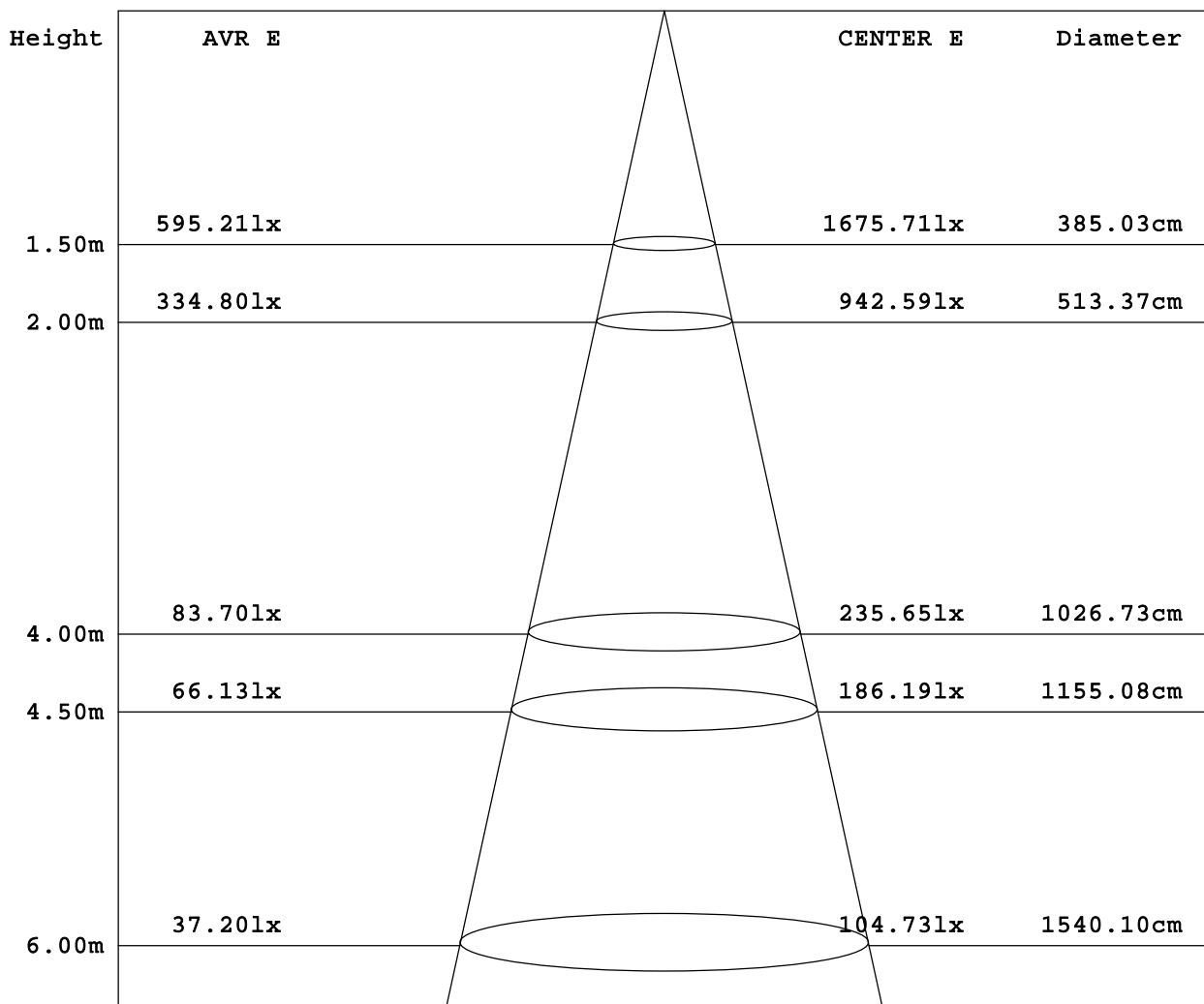
Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:	Address:	
NAME: 1.8M 98W	TYPE:1.8M	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:201705240001



Angle:104.2deg

Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:		Address:	
NAME: 1.8M 98W		TYPE:1.8M	WEIGHT:
SPECIFICATION:		DIMENSION:	SERIAL No.:201705240001

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	3711	3715	3744	3749	3759	3755	3753	3721	0- 5	89.66	89.66
10.0	3651	3638	3675	3705	3748	3718	3694	3650	5- 10	265.3	355.0
15.0	3530	3534	3568	3632	3663	3651	3591	3552	10- 15	431.1	786.1
20.0	3409	3378	3417	3500	3579	3523	3453	3401	15- 20	580.0	1366
25.0	3241	3208	3236	3352	3434	3380	3276	3235	20- 25	707.7	2074
30.0	3074	3009	3022	3170	3288	3200	3067	3039	25- 30	809.4	2883
35.0	2874	2787	2778	2959	3097	2991	2837	2818	30- 35	883.0	3766
40.0	2673	2559	2520	2740	2906	2775	2578	2593	35- 40	926.3	4693
45.0	2447	2307	2241	2489	2681	2524	2302	2342	40- 45	940.1	5633
50.0	2220	2057	1948	2239	2455	2278	2023	2097	45- 50	924.3	6557
55.0	1983	1794	1696	1971	2206	2007	1730	1833	50- 55	881.9	7439
60.0	1745	1539	1379	1709	1956	1742	1432	1595	55- 60	816.4	8256
65.0	1559	1291	1071	1446	1729	1480	1161	1334	60- 65	733.3	8989
70.0	1373	1067	775.6	1196	1501	1228	861.1	1101	65- 70	637.5	9627
75.0	1186	874.6	487.9	966.0	1273	991.5	569.2	903.6	70- 75	532.7	10159
80.0	1000	693.0	230.0	748.0	1045	768.0	310.2	717.6	75- 80	425.1	10585
85.0	814.0	521.8	45.52	541.4	817.3	552.5	100.3	538.9	80- 85	321.1	10906
90.0	627.8	357.2	5.586	341.6	589.5	345.1	9.163	367.9	85- 90	226.2	11132
95.0									90- 95		
100.0									95-100		
105.0									100-105		
110.0									105-110		
115.0									110-115		
120.0									115-120		
125.0									120-125		
130.0									125-130		
135.0									130-135		
140.0									135-140		
145.0									140-145		
150.0									145-150		
155.0									150-155		
160.0									155-160		
165.0									160-165		
170.0									165-170		
175.0									170-175		
180.0									175-180		
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

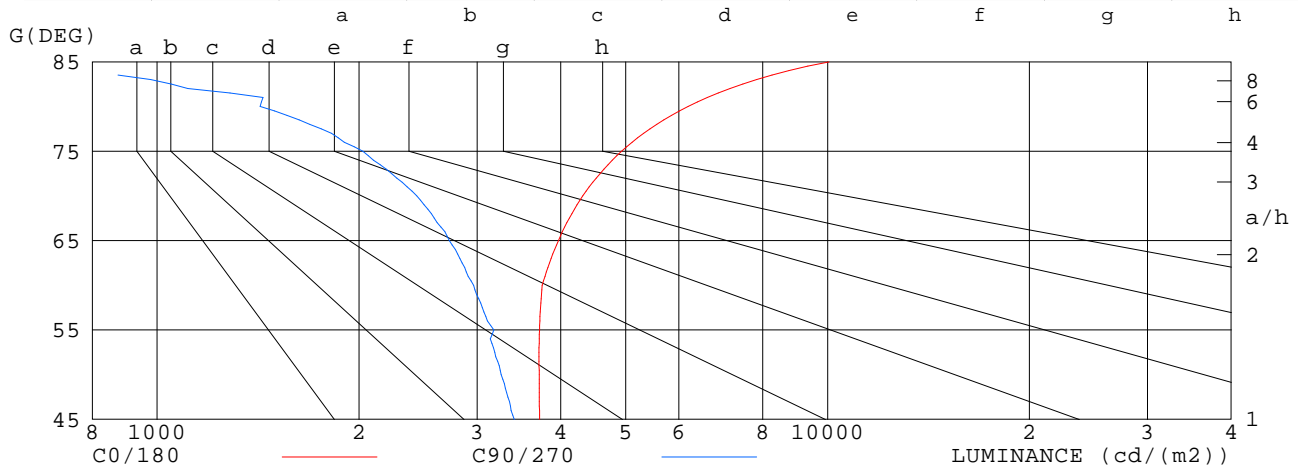
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		Address:	
NAME: 1.8M 98W		TYPE:1.8M	WEIGHT:
SPECIFICATION:		DIMENSION:	SERIAL No.:201705240001

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
		2000	1000	500	<=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



G (DEG)	LUMINANCE cd/(m2)	
	C0/180	C90/270
85	10043	562
80	6194	1425
75	4929	2027
70	4316	2439
65	3966	2726
60	3753	2965
55	3717	3179
50	3714	3259
45	3721	3408

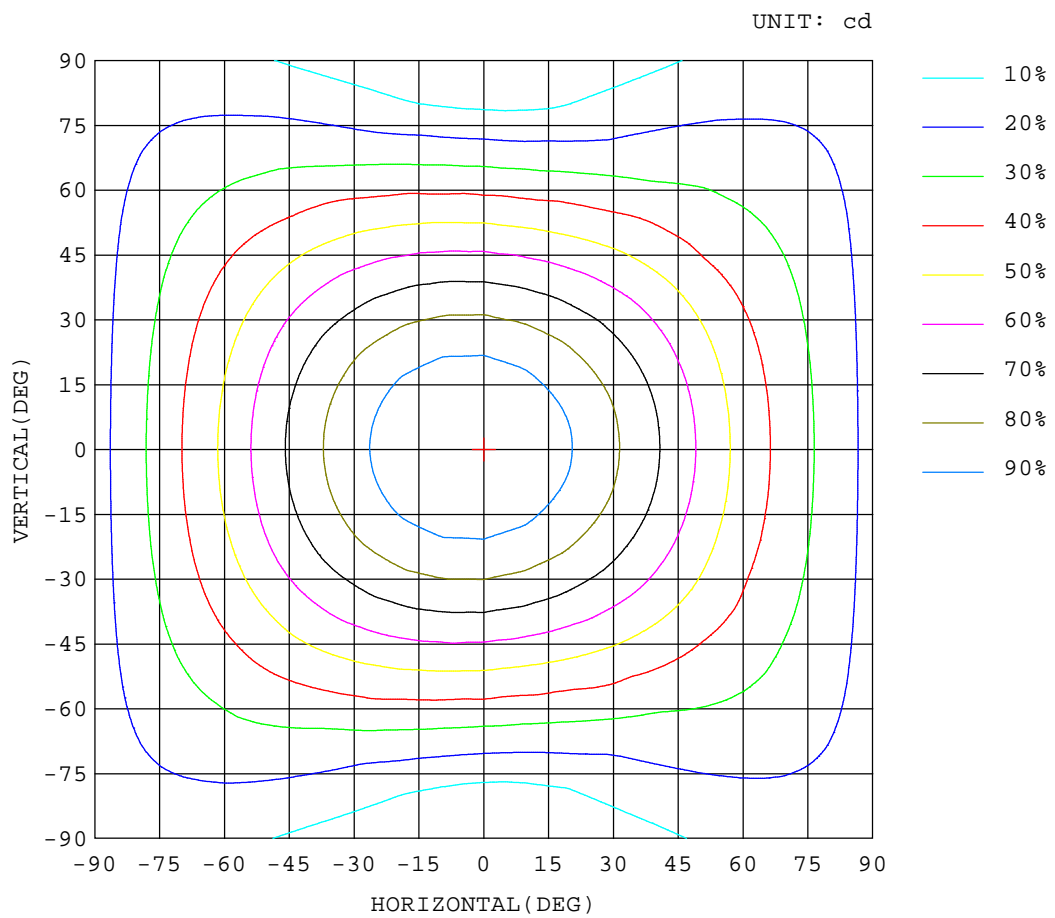
Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: 1.8M 98W	TYPE:1.8M	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:201705240001



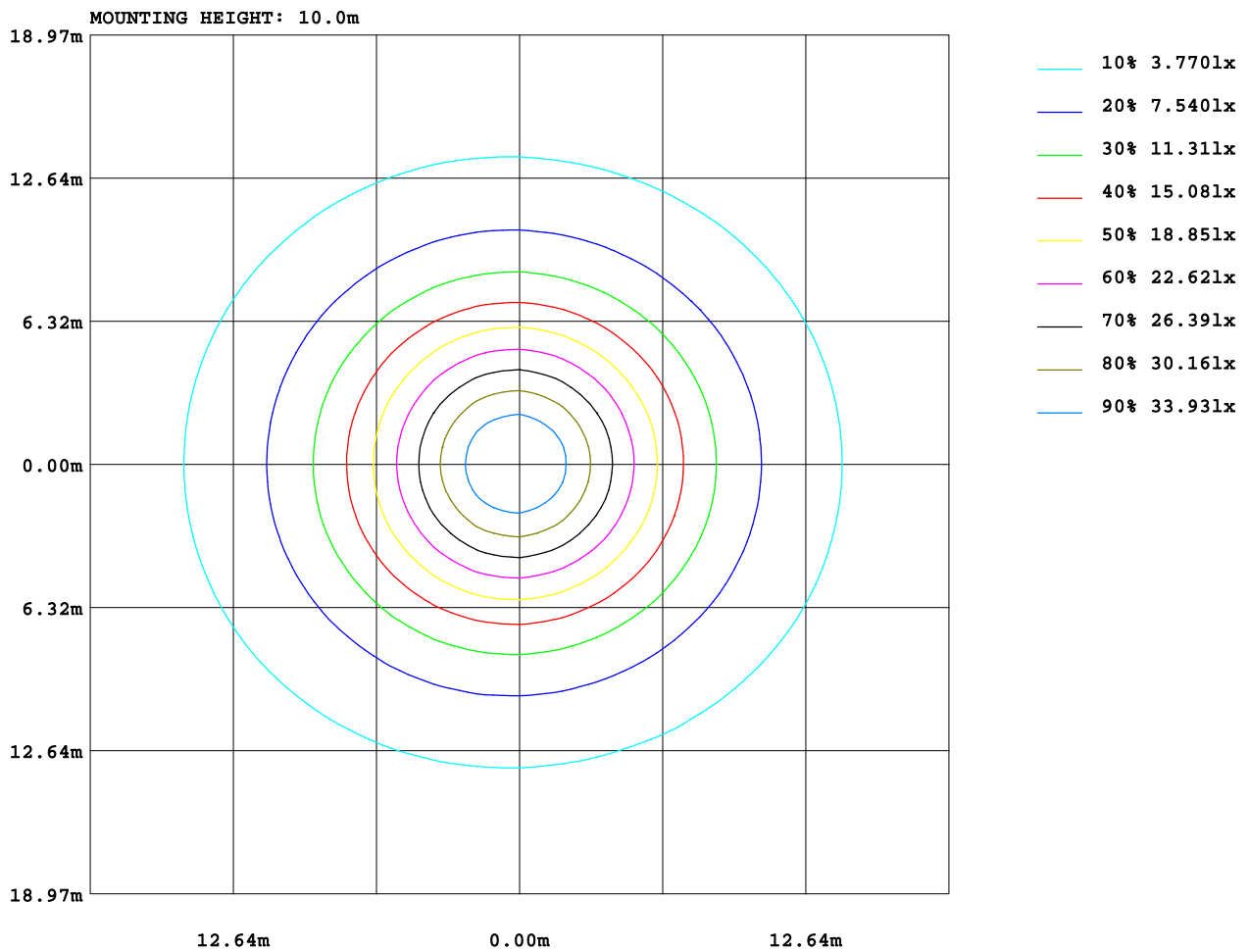
Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: 1.8M 98W	TYPE:1.8M	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:201705240001



Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:	Address:					
NAME: 1.8M 98W	TYPE:1.8M			WEIGHT:		
SPECIFICATION:	DIMENSION:			SERIAL No.:201705240001		

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
	1.61	4.85	7.71	9.71	10.5	10.1	8.50	6.07	4.05	3.64	5.42	7.97	9.80	10.5	9.86	7.93	5.06	1.70	125	87.1	
90	1.75	5.80	10.1	14.1	17.2	18.8	18.9	18.5	17.8	17.0	16.6	16.8	17.0	16.0	13.5	9.96	5.84	1.81	238	234	
80	1.88	6.73	12.6	18.7	24.3	28.9	32.4	34.6	35.3	34.3	32.3	29.4	25.8	22.1	17.4	11.9	6.60	1.92	378	378	
70	2.00	7.60	14.9	23.2	31.6	39.9	46.4	50.9	52.7	51.6	48.2	42.8	36.2	28.6	21.1	13.9	7.33	2.02	522	522	
60	2.11	8.40	17.1	27.6	39.0	50.4	60.0	66.8	69.8	68.7	63.7	55.9	46.2	35.2	24.8	15.8	7.99	2.11	662	662	
50	2.21	9.08	19.1	31.5	45.9	60.2	72.5	81.5	85.7	84.4	78.1	68.0	55.4	41.5	28.2	17.4	8.55	2.19	792	792	
40	2.28	9.61	20.6	34.8	51.5	68.2	82.9	93.8	98.9	97.5	90.1	78.0	63.0	46.8	31.2	18.7	9.00	2.25	900	900	
30	2.33	9.99	21.7	37.2	55.4	73.9	90.3	103	108	107	98.7	85.2	68.5	50.5	33.4	19.6	9.31	2.29	977	977	
20	2.36	10.1	22.3	38.4	57.4	76.8	94.1	107	113	112	103	88.8	71.2	52.4	34.5	20.1	9.47	2.31	1016	1016	
10	2.36	10.1	22.2	38.4	57.3	76.6	93.9	107	113	111	103	88.7	71.1	52.3	34.5	20.0	9.46	2.31	1014	1014	
0	2.33	9.97	21.7	37.1	55.2	73.5	89.8	102	108	106	98.0	84.7	68.1	50.3	33.3	19.5	9.29	2.29	971	971	
-10	2.28	9.59	20.5	34.6	51.1	67.6	82.1	92.6	97.7	96.3	89.1	77.2	62.4	46.4	31.1	18.6	8.97	2.25	891	891	
-20	2.20	9.05	19.0	31.3	45.4	59.4	71.4	80.0	84.0	82.8	76.7	66.9	54.5	41.1	28.3	17.3	8.51	2.19	781	781	
-30	2.11	8.36	17.0	27.3	38.6	49.5	58.7	65.1	67.9	66.8	62.1	54.6	45.1	34.7	24.8	15.7	7.94	2.11	649	649	
-40	2.00	7.57	14.8	23.1	31.2	38.8	45.1	49.1	50.6	49.6	46.4	41.6	35.1	27.9	21.0	13.9	7.29	2.02	508	508	
-50	1.88	6.70	12.5	18.6	23.8	27.9	31.2	32.8	33.0	32.1	30.4	28.1	24.9	21.5	17.1	11.9	6.57	1.92	363	363	
-60	1.74	5.78	10.1	14.0	16.8	18.0	17.8	16.9	15.6	14.8	15.1	15.7	16.2	15.5	13.3	9.90	5.81	1.81	225	217	
-70	1.61	4.84	7.67	9.64	10.3	9.76	7.96	5.33	3.01	2.67	4.62	7.29	9.30	10.1	9.66	7.85	5.03	1.69	119	81.6	
-80																					
-90																					
	Φ t	37.1	144	292	470	664	849	1005	1113	1159	1139	1062	939	781	604	428	271	138	37.2	11132	
	Φ a	37.1	144	292	470	662	842	994	1101	1148	1128	1049	926	773	603	428	271	138	37.2		11045

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

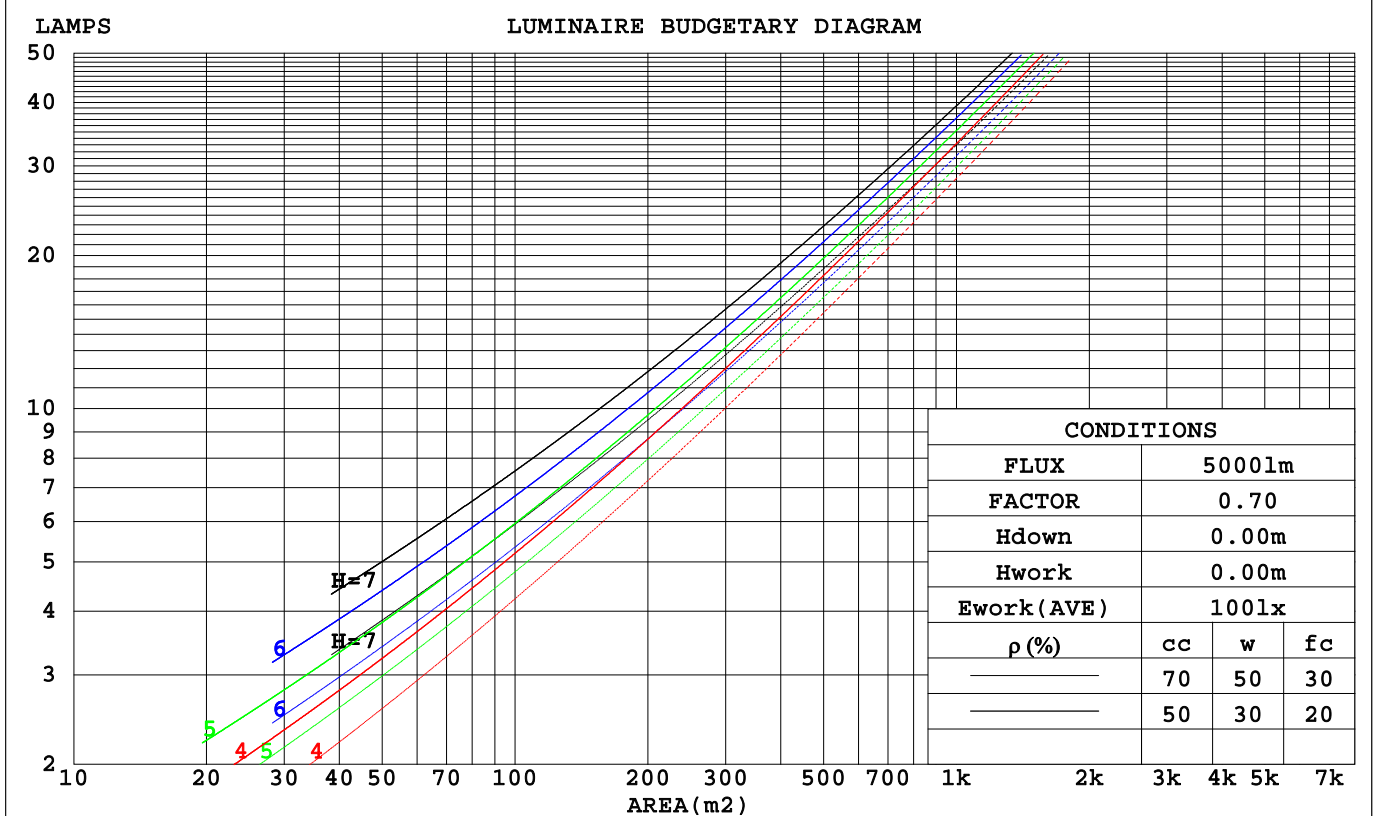
Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:		Address:			
NAME: 1.8M 98W		TYPE:1.8M		WEIGHT:	
SPECIFICATION:		DIMENSION:		SERIAL No.:201705240001	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.02	.97	.93	.90	.95	.91	.95	.92	.88	.91	.88	.85	.88	.85	.83	.81
2.0	.88	.81	.75	.86	.79	.74	.83	.77	.72	.79	.74	.70	.76	.72	.69	.66
3.0	.77	.68	.62	.76	.67	.61	.72	.66	.60	.70	.64	.59	.67	.62	.58	.55
4.0	.68	.59	.52	.67	.58	.52	.64	.57	.51	.62	.55	.50	.60	.54	.49	.47
5.0	.61	.52	.45	.60	.51	.44	.58	.50	.44	.56	.49	.43	.54	.48	.43	.41
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.38	.50	.43	.38	.49	.42	.38	.36
7.0	.50	.41	.34	.49	.40	.34	.47	.40	.34	.46	.39	.34	.44	.38	.33	.31
8.0	.45	.37	.31	.45	.36	.31	.43	.36	.30	.42	.35	.30	.41	.35	.30	.28
9.0	.42	.33	.28	.41	.33	.28	.40	.32	.27	.39	.32	.27	.38	.32	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.25	.23



Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

WEC AND CCEC

Report number:

MANUFACTURER:	Address:					
NAME: 1.8M 98W	TYPE:1.8M			WEIGHT:		
SPECIFICATION:	DIMENSION:			SERIAL No.:201705240001		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.349	.198	.063	.341	.195	.062	.328	.188	.060	.316	.182	.058	.304	.176	.057	
2.0	.314	.172	.053	.307	.169	.052	.296	.164	.051	.285	.160	.050	.274	.155	.049	
3.0	.284	.151	.045	.279	.149	.045	.268	.145	.044	.258	.142	.043	.249	.138	.043	
4.0	.259	.135	.040	.254	.133	.039	.245	.130	.039	.236	.127	.038	.228	.124	.038	
5.0	.238	.121	.035	.233	.120	.035	.225	.117	.034	.217	.115	.034	.210	.112	.034	
6.0	.219	.110	.031	.215	.109	.031	.208	.106	.031	.201	.104	.031	.194	.102	.030	
7.0	.203	.100	.028	.200	.099	.028	.193	.098	.028	.187	.096	.028	.181	.094	.028	
8.0	.189	.092	.026	.186	.092	.026	.180	.090	.026	.175	.088	.026	.169	.087	.025	
9.0	.177	.085	.024	.174	.085	.024	.169	.083	.024	.164	.082	.023	.159	.081	.023	
10.0	.166	.079	.022	.163	.079	.022	.159	.078	.022	.154	.077	.022	.150	.075	.022	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.183	.156	.131	.157	.134	.113	.107	.092	.078	.062	.053	.045	.020	.017	.015	
2.0	.175	.132	.095	.150	.113	.082	.103	.078	.057	.059	.046	.034	.019	.015	.011	
3.0	.167	.114	.072	.143	.099	.063	.098	.069	.044	.057	.040	.026	.018	.013	.008	
4.0	.159	.101	.057	.137	.087	.049	.094	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.152	.091	.046	.130	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.144	.083	.038	.124	.071	.033	.085	.050	.024	.050	.029	.014	.016	.010	.005	
7.0	.137	.076	.033	.118	.066	.028	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.130	.070	.028	.112	.061	.025	.078	.043	.017	.045	.025	.010	.015	.008	.003	
9.0	.124	.065	.025	.107	.056	.022	.074	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.022	.102	.053	.019	.071	.037	.014	.041	.022	.008	.013	.007	.003	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

Uncorrected UGR Table

Report number:

MANUFACTURER:					Address:					
NAME: 1.8M 98W					TYPE:1.8M			WEIGHT:		
SPECIFICATION:					DIMENSION:			SERIAL No.:201705240001		
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	17.3	18.9	17.6	19.1	19.3	16.2	17.8	16.5	18.0	18.2
3H	19.5	20.9	19.8	21.2	21.4	17.5	18.9	17.8	19.2	19.4
4H	20.7	22.0	21.0	22.3	22.6	17.9	19.3	18.2	19.5	19.8
6H	21.9	23.2	22.2	23.5	23.8	18.1	19.4	18.4	19.7	20.0
8H	22.5	23.8	22.9	24.1	24.4	18.1	19.4	18.5	19.7	20.0
12H	23.3	24.5	23.6	24.8	25.1	18.1	19.3	18.4	19.6	19.9
4H 2H	17.9	19.3	18.2	19.5	19.8	17.0	18.4	17.3	18.6	18.9
3H	20.3	21.5	20.6	21.8	22.1	18.5	19.7	18.8	20.0	20.3
4H	21.6	22.8	22.0	23.1	23.4	19.0	20.2	19.4	20.5	20.8
6H	23.1	24.1	23.5	24.5	24.8	19.4	20.4	19.8	20.7	21.1
8H	23.9	24.8	24.3	25.2	25.6	19.4	20.4	19.8	20.7	21.1
12H	24.8	25.6	25.2	26.0	26.4	19.4	20.3	19.9	20.7	21.1
8H 4H	21.9	22.9	22.3	23.2	23.6	19.7	20.7	20.1	21.0	21.4
6H	23.7	24.5	24.1	24.9	25.3	20.3	21.1	20.8	21.5	22.0
8H	24.7	25.4	25.1	25.8	26.2	20.5	21.2	21.0	21.7	22.1
12H	25.8	26.4	26.3	26.9	27.3	20.6	21.2	21.1	21.7	22.2
12H 4H	21.9	22.8	22.4	23.2	23.6	19.9	20.8	20.4	21.2	21.6
6H	23.8	24.5	24.2	24.9	25.3	20.7	21.4	21.2	21.8	22.3
8H	24.8	25.5	25.3	25.9	26.4	21.0	21.7	21.5	22.1	22.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
2.0H	+ 0.2 / - 0.3					+ 0.1 / - 0.2				

CIE Pub.117 Corrected 11132 lm Total Lamp Luminous Flux.(8log(F/F0) = 8.4)

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:	Address:		
NAME: 1.8M 98W	TYPE:1.8M	WEIGHT:	
SPECIFICATION:	DIMENSION:	SERIAL No.:201705240001	

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	56	44	37	56	44	37	54	44	37	31
0.80	66	54	47	65	54	46	63	53	46	39
1.00	74	63	55	73	62	55	71	64	54	47
1.25	81	70	63	80	69	62	77	68	61	54
1.50	86	76	68	84	75	68	81	73	67	59
2.00	93	84	77	91	83	76	87	80	75	66
2.50	97	89	82	95	87	81	91	84	79	71
3.00	100	93	87	98	91	86	94	88	84	75
4.00	105	98	93	102	96	92	98	93	89	80
5.00	107	102	97	105	100	96	100	96	92	83
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

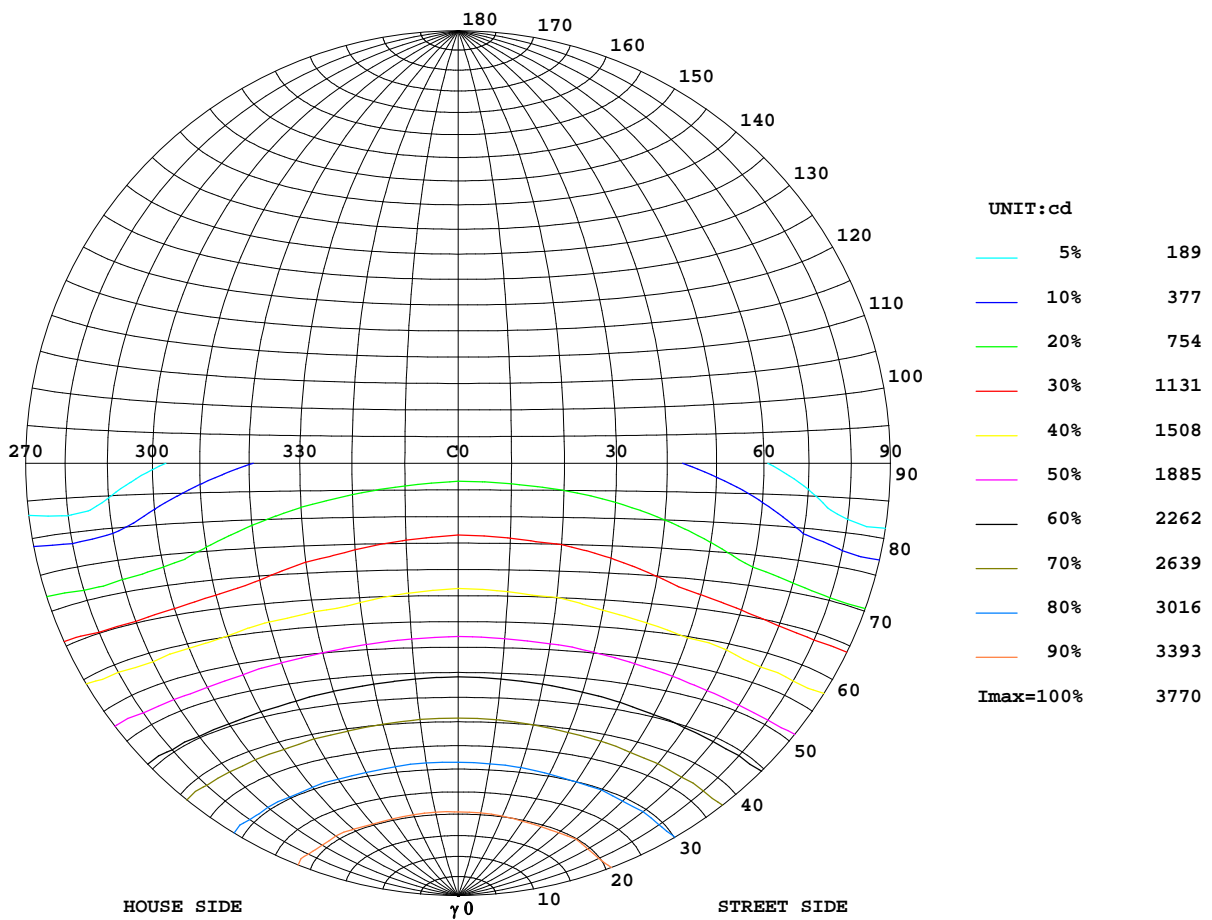
Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: 1.8M 98W	TYPE:1.8M	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:201705240001



Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

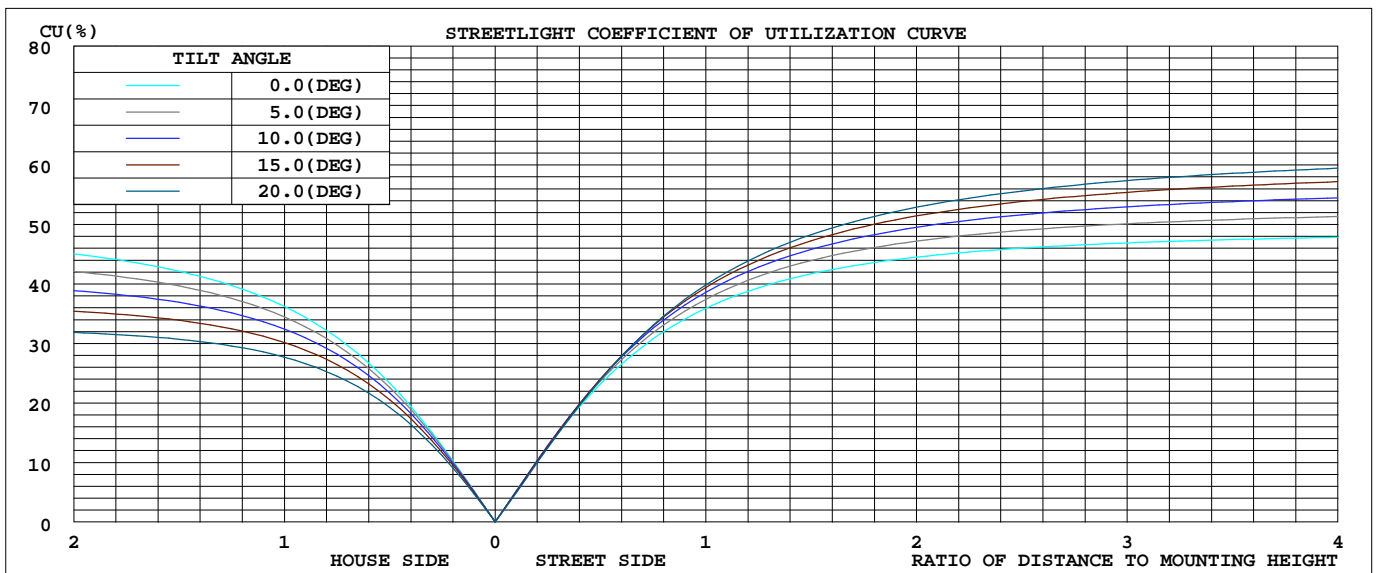
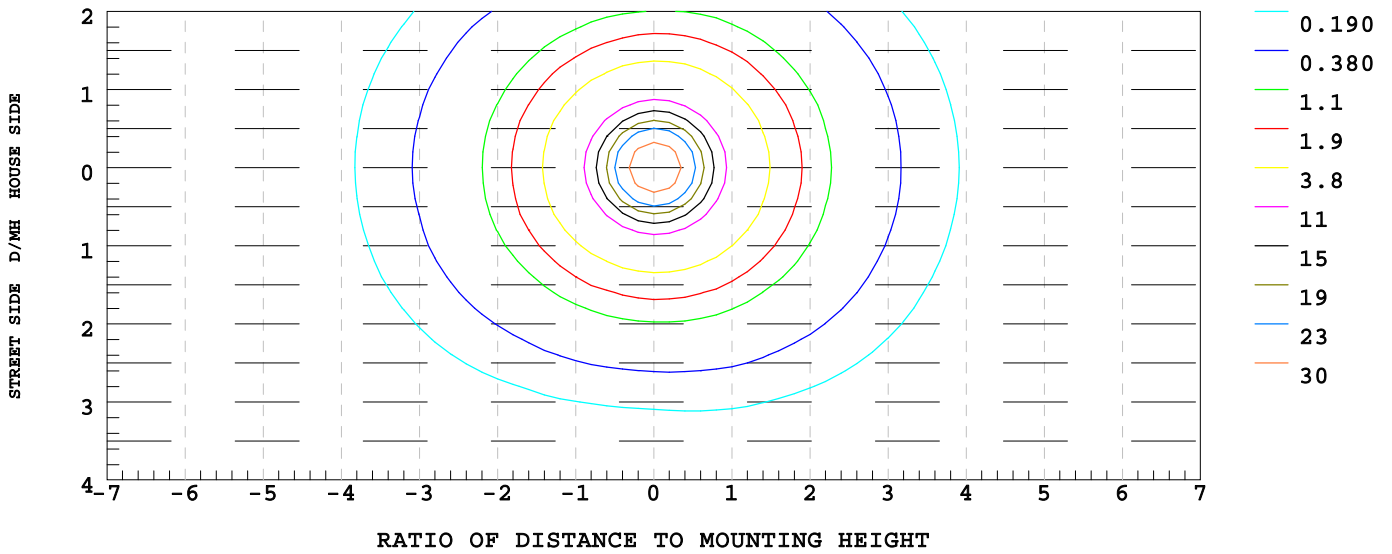
Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: 1.8M 98W	TYPE:1.8M	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:201705240001

ILLUMINANCE AT MH=10 m, Enadir = 37.70 lx



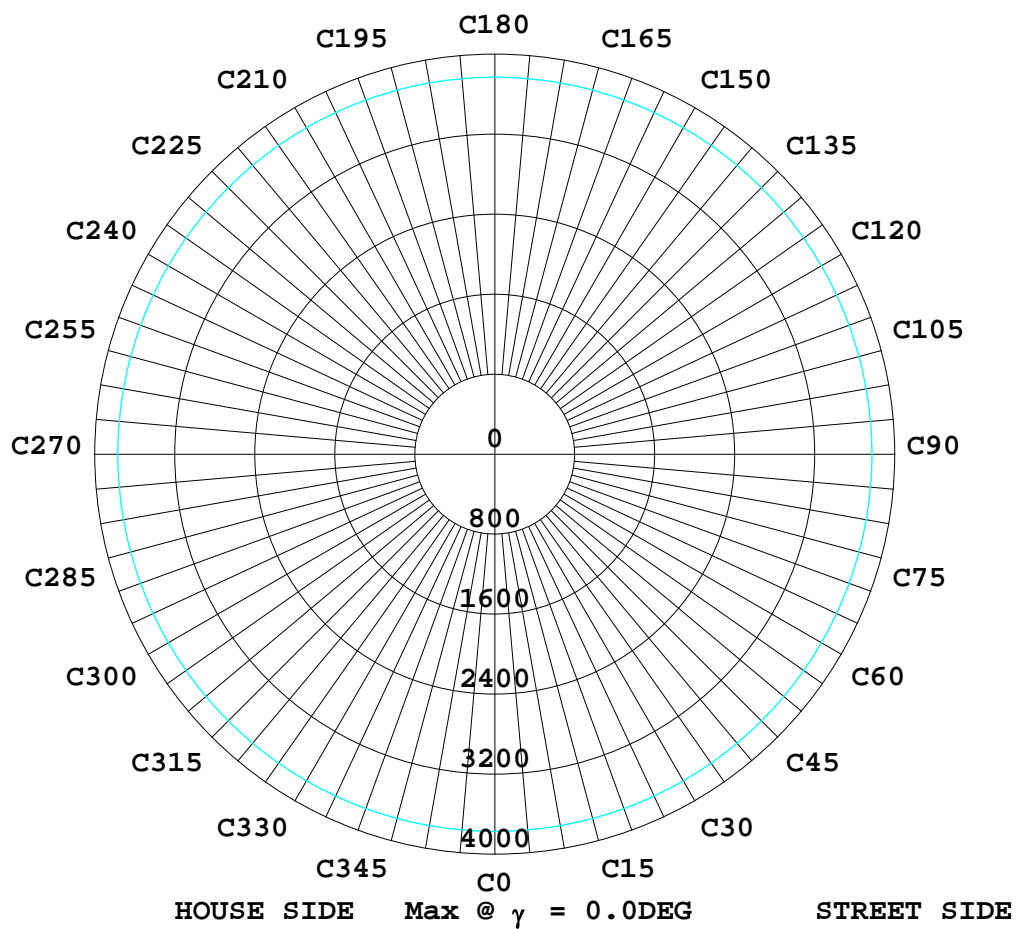
Test System:HOPPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME: 1.8M 98W	TYPE:1.8M	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:201705240001



Test System:HOP00 HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:	Address:	
NAME: 1.8M 98W	TYPE:1.8M	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:201705240001

UNIT: cd

γ (DEG)	C(DEG)															
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	
0.0	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	
5.0	3711	3711	3711	3711	3711	3711	3712	3712	3713	3715	3717	3719	3721	3724	3727	
10.0	3651	3651	3650	3648	3646	3644	3642	3641	3639	3638	3638	3639	3641	3643	3647	
15.0	3530	3529	3528	3527	3526	3526	3526	3528	3530	3534	3538	3533	3529	3529	3531	
20.0	3409	3407	3404	3401	3396	3392	3386	3383	3379	3378	3379	3383	3389	3386	3382	
25.0	3241	3240	3237	3234	3230	3226	3222	3220	3217	3208	3201	3196	3197	3203	3206	
30.0	3074	3071	3066	3059	3051	3042	3032	3022	3014	3009	3007	2996	2986	2986	2990	
35.0	2874	2870	2866	2858	2850	2841	2830	2819	2802	2787	2774	2767	2763	2749	2746	
40.0	2673	2669	2662	2651	2638	2622	2605	2588	2572	2559	2538	2519	2508	2504	2488	
45.0	2447	2443	2436	2425	2411	2395	2378	2356	2330	2307	2284	2268	2245	2232	2223	
50.0	2220	2217	2208	2195	2178	2157	2133	2107	2082	2057	2027	1998	1980	1955	1940	
55.0	1983	1979	1969	1956	1939	1920	1892	1860	1827	1794	1762	1732	1713	1679	1655	
60.0	1745	1741	1730	1715	1708	1687	1654	1618	1579	1539	1494	1483	1449	1406	1378	
65.0	1559	1553	1540	1518	1509	1474	1430	1382	1337	1291	1257	1216	1174	1137	1103	
70.0	1373	1367	1353	1331	1318	1280	1236	1185	1128	1067	1002	953	910	870	827	
75.0	1186	1181	1167	1145	1128	1090	1045	994	937	875	809	740	668	611	571	
80.0	1000	995	982	961	939	903	860	810	754	693	629	562	492	421	350	
85.0	814	809	797	777	753	719	678	630	578	522	461	400	337	273	212	
90.0	628	624	612	594	568	537	499	455	408	357	303	250	197	146	102	

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:	Address:	
NAME: 1.8M 98W	TYPE:1.8M	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:201705240001

UNIT: cd

γ (DEG)	C(DEG)														
	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145
0.0	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770
5.0	3731	3735	3739	3744	3744	3743	3743	3743	3744	3745	3746	3748	3749	3750	3752
10.0	3651	3658	3666	3675	3674	3674	3676	3679	3683	3688	3693	3699	3705	3713	3720
15.0	3536	3544	3554	3568	3566	3568	3572	3579	3588	3599	3614	3628	3632	3635	3639
20.0	3384	3389	3401	3417	3416	3420	3430	3444	3462	3479	3484	3491	3500	3510	3522
25.0	3202	3205	3217	3236	3235	3243	3258	3280	3293	3302	3315	3332	3352	3373	3384
30.0	2992	2991	3000	3022	3022	3033	3057	3074	3087	3104	3130	3156	3170	3184	3202
35.0	2756	2751	2756	2778	2780	2798	2827	2837	2859	2893	2912	2932	2959	2986	3013
40.0	2491	2494	2497	2520	2523	2545	2565	2584	2622	2643	2670	2705	2740	2762	2788
45.0	2212	2224	2220	2241	2247	2278	2289	2323	2353	2383	2425	2453	2489	2523	2560
50.0	1931	1931	1930	1948	1958	1985	2010	2042	2077	2121	2153	2196	2239	2274	2308
55.0	1668	1646	1648	1696	1677	1709	1728	1756	1801	1838	1884	1928	1971	2015	2058
60.0	1371	1356	1365	1379	1380	1404	1447	1475	1523	1582	1608	1659	1709	1756	1803
65.0	1084	1066	1066	1071	1095	1121	1161	1198	1248	1298	1353	1391	1446	1500	1551
70.0	795	774	768	776	795	826	866	915	971	1021	1074	1131	1196	1257	1314
75.0	530	503	481	488	507	550	593	647	696	759	831	901	966	1028	1085
80.0	298	260	236	230	258	298	347	405	478	549	619	685	748	808	862
85.0	151	93.3	63.3	45.5	76.6	114	175	239	300	363	424	483	541	596	645
90.0	60.8	29.2	10.5	5.58	12.2	32.3	64.1	103	145	193	242	292	342	389	432

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:	Address:	
NAME: 1.8M 98W	TYPE:1.8M	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:201705240001

UNIT: cd

C(DEG)\ γ (DEG)	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220
0.0	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770
5.0	3753	3755	3756	3757	3758	3758	3759	3759	3759	3759	3759	3758	3757	3757	3756
10.0	3725	3731	3736	3740	3744	3746	3748	3748	3747	3745	3742	3738	3734	3729	3723
15.0	3643	3648	3652	3656	3659	3661	3663	3664	3663	3662	3660	3658	3656	3653	3652
20.0	3533	3545	3555	3564	3571	3576	3579	3579	3576	3572	3566	3558	3550	3540	3531
25.0	3394	3402	3412	3420	3426	3430	3434	3434	3432	3429	3424	3419	3413	3408	3399
30.0	3221	3238	3253	3266	3277	3284	3288	3288	3284	3277	3268	3256	3241	3227	3213
35.0	3033	3049	3063	3076	3087	3093	3097	3097	3094	3087	3079	3067	3056	3042	3016
40.0	2813	2837	2859	2877	2892	2901	2906	2905	2899	2889	2875	2858	2838	2815	2794
45.0	2590	2614	2634	2653	2666	2676	2681	2680	2674	2664	2651	2634	2614	2588	2557
50.0	2343	2373	2401	2423	2439	2450	2455	2454	2447	2434	2415	2393	2366	2337	2307
55.0	2095	2124	2152	2174	2190	2201	2206	2204	2198	2185	2166	2144	2116	2084	2046
60.0	1831	1867	1897	1920	1939	1951	1956	1954	1946	1931	1911	1885	1853	1818	1780
65.0	1587	1623	1659	1687	1709	1723	1729	1726	1715	1697	1673	1640	1601	1557	1512
70.0	1365	1393	1430	1459	1481	1495	1501	1498	1487	1468	1442	1407	1367	1320	1270
75.0	1135	1167	1203	1233	1254	1267	1273	1270	1259	1240	1213	1178	1138	1090	1049
80.0	911	945	979	1007	1027	1040	1045	1042	1031	1012	986	953	913	867	823
85.0	690	725	757	783	801	813	817	814	804	786	761	730	692	649	605
90.0	473	507	536	559	576	586	590	586	577	560	537	509	475	435	392

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:	Address:	
NAME: 1.8M 98W	TYPE:1.8M	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:201705240001

UNIT: cd

C(DEG)\ γ (DEG)	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295
0.0	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770
5.0	3755	3754	3753	3752	3752	3751	3751	3752	3752	3753	3748	3743	3739	3735	3731
10.0	3718	3713	3707	3702	3698	3695	3693	3692	3692	3694	3684	3675	3668	3662	3657
15.0	3651	3648	3634	3622	3611	3603	3596	3591	3590	3591	3577	3567	3560	3555	3552
20.0	3523	3515	3511	3509	3492	3476	3463	3455	3452	3453	3436	3424	3416	3413	3414
25.0	3380	3363	3349	3337	3332	3320	3296	3282	3276	3276	3257	3244	3239	3244	3240
30.0	3200	3190	3166	3145	3129	3120	3102	3080	3068	3067	3046	3036	3036	3034	3027
35.0	2991	2970	2953	2936	2908	2887	2879	2853	2837	2837	2813	2804	2807	2796	2796
40.0	2775	2744	2714	2691	2673	2639	2623	2603	2582	2578	2556	2550	2547	2542	2554
45.0	2524	2495	2471	2434	2407	2382	2352	2343	2310	2302	2282	2288	2273	2281	2285
50.0	2278	2236	2198	2170	2135	2106	2076	2054	2029	2023	2000	1997	1995	2002	2012
55.0	2007	1968	1933	1887	1853	1818	1799	1760	1741	1730	1714	1703	1717	1729	1730
60.0	1742	1711	1659	1615	1573	1553	1506	1466	1465	1432	1435	1423	1426	1452	1470
65.0	1480	1441	1391	1339	1303	1261	1222	1200	1169	1161	1139	1143	1143	1165	1192
70.0	1228	1170	1115	1062	1017	972	932	898	870	861	841	844	859	884	915
75.0	992	931	868	801	742	691	648	612	589	569	561	562	583	614	657
80.0	768	707	644	580	515	448	390	353	320	310	295	313	341	393	460
85.0	553	497	440	381	322	262	204	147	106	100	95.8	120	180	238	300
90.0	345	296	247	197	151	107	67.0	34.7	12.5	9.16	12.3	35.5	69.6	112	159

Test System:HOPOO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:	Address:	
NAME: 1.8M 98W	TYPE:1.8M	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:201705240001

UNIT: cd

C(DEG)\ γ (DEG)	300	305	310	315	320	325	330	335	340	345	350	355
0.0	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770	3770
5.0	3728	3725	3723	3721	3719	3717	3716	3715	3714	3713	3712	3711
10.0	3654	3653	3651	3650	3650	3650	3651	3651	3651	3652	3652	3652
15.0	3551	3553	3557	3552	3546	3541	3539	3536	3535	3534	3532	3531
20.0	3418	3409	3403	3401	3399	3401	3403	3404	3406	3409	3410	3410
25.0	3231	3229	3230	3235	3243	3243	3241	3242	3242	3242	3243	3243
30.0	3026	3030	3040	3039	3041	3047	3052	3059	3065	3070	3073	3074
35.0	2805	2808	2811	2818	2831	2846	2853	2859	2865	2869	2873	2874
40.0	2555	2563	2576	2593	2603	2616	2630	2643	2654	2663	2670	2674
45.0	2294	2313	2325	2342	2364	2384	2403	2416	2428	2437	2444	2447
50.0	2029	2043	2068	2097	2115	2136	2157	2176	2192	2206	2216	2220
55.0	1750	1780	1809	1833	1859	1887	1911	1934	1952	1967	1977	1982
60.0	1482	1514	1555	1595	1609	1636	1663	1688	1710	1726	1738	1744
65.0	1219	1254	1296	1334	1369	1410	1433	1471	1504	1529	1546	1556
70.0	952	995	1043	1101	1157	1210	1240	1280	1314	1341	1359	1370
75.0	712	779	843	904	962	1016	1051	1091	1127	1153	1173	1184
80.0	527	591	656	718	774	827	867	907	941	967	986	997
85.0	360	421	482	539	594	644	686	724	757	782	801	811
90.0	209	263	316	368	419	464	506	543	573	597	615	625

Test System:HOPPO HPG1900
 Temperature:25.3DEG
 Operators:
 Test Date:2017年06月01日

Test Set: 5.0deg/s B-Beta (TYPE B)
 Humidity:65.0%
 Test Distance:7.000 m
 Remarks: 4000K LED