

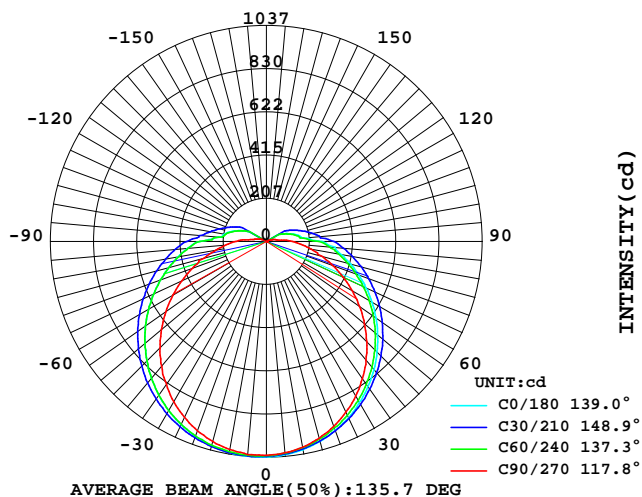
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

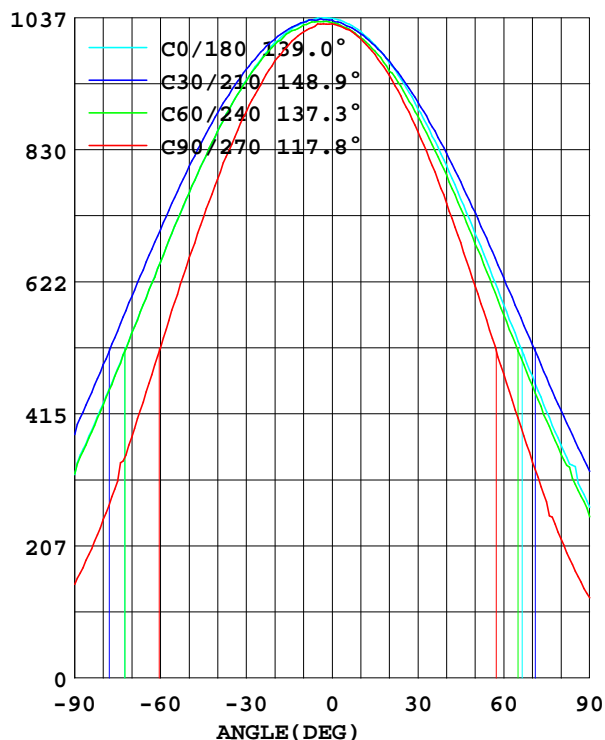
MANUFACTURER:		
Address:		
NAME: D50 1.2 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*50mm	SERIAL No.:

DATA OF LAMP		I _{max} (cd)	1037	S/MH(C0/180)	1.35
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.29
NOMINAL POWER(W)	28	TOTAL FLUX(lm)	3938.9	Voltage(V)	224.0
RATED VOLTAGE(V)	224	EFFICIENCY(lm/W)	140.2	Current(A)	0.132
NOMINAL FLUX(lm)	3939.0	h up(%)	8.7	Power(W)	28.09
LAMPS QUANTITY	1	h down(%)	91.3	Power Factor(PF)	0.948
TEST VOLTAGE(V)	224.0	Effective Flux(lm)	3877.5	EEI	0.099

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



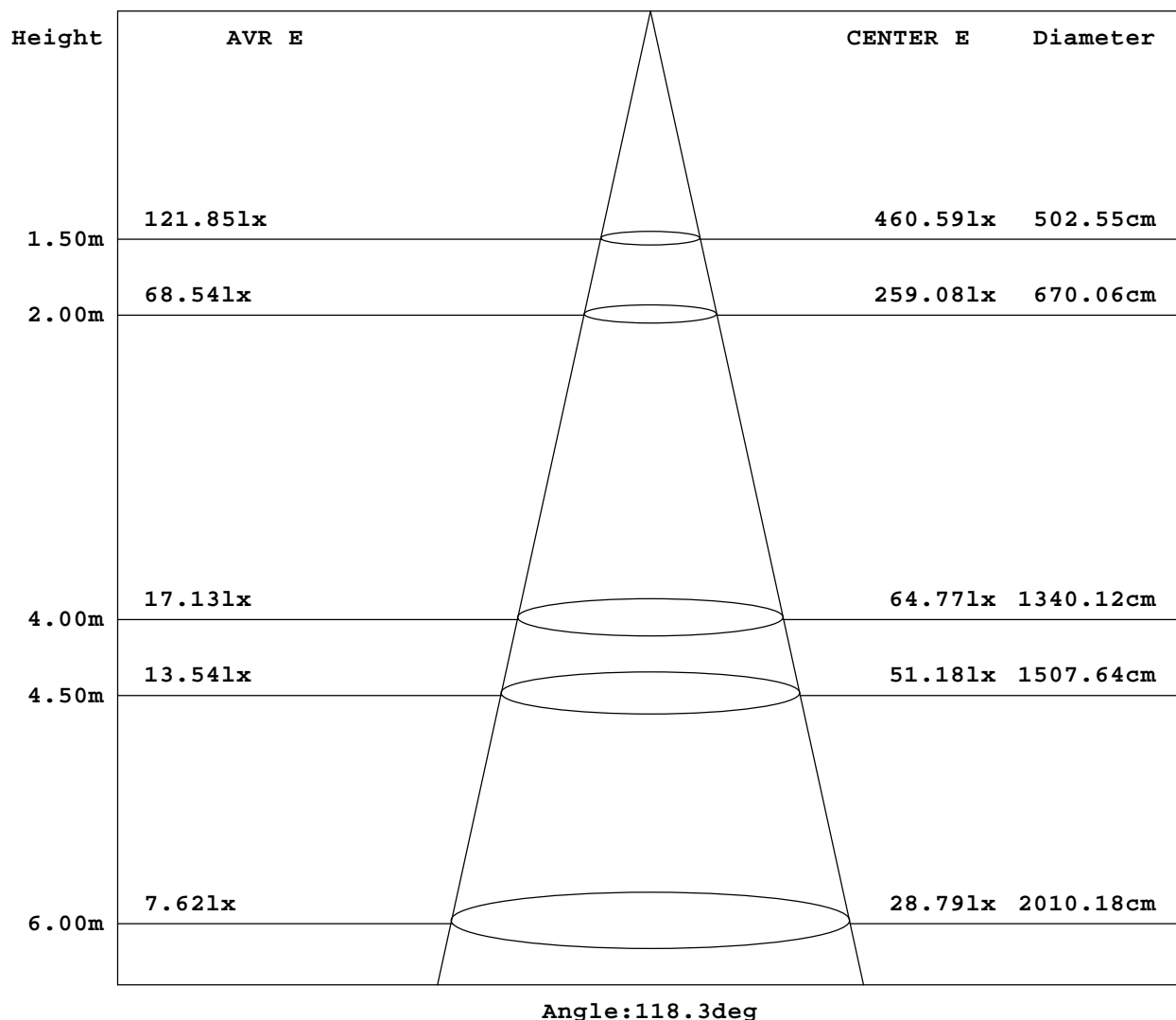
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年10月18日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:		
Address:		
NAME: D50 1.2 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*50mm	SERIAL No.:



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 2019年10月18日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 11.000 m
 Remarks:

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: D50 1.2 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*50mm	SERIAL No.:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	1037	1033	1028	1018	1029	1023	1019	1018	0- 5	24.54	24.54
10.0	1030	1028	1015	1004	1016	1009	1004	1005	5- 10	72.88	97.43
15.0	1016	1017	995.5	983.2	994.5	989.0	980.0	980.5	10- 15	119.0	216.4
20.0	998.2	999.1	969.4	949.0	965.8	960.9	946.4	947.9	15- 20	161.5	377.9
25.0	971.0	976.6	931.7	908.6	935.2	930.6	904.7	908.9	20- 25	199.1	577.1
30.0	939.2	946.8	889.4	859.7	893.8	893.8	858.8	861.9	25- 30	230.9	808.0
35.0	901.1	912.7	838.3	805.9	850.7	851.4	804.8	807.0	30- 35	255.9	1064
40.0	859.1	873.0	783.0	744.7	804.7	807.0	745.6	747.2	35- 40	273.7	1338
45.0	812.1	829.6	723.5	678.5	751.8	758.5	683.9	682.4	40- 45	284.0	1622
50.0	761.2	782.2	659.5	608.6	697.6	706.7	615.5	612.8	45- 50	286.6	1908
55.0	709.6	732.0	589.9	535.0	643.6	653.7	546.1	539.9	50- 55	281.9	2190
60.0	653.5	679.0	518.7	458.1	586.8	600.1	478.5	464.3	55- 60	270.5	2461
65.0	597.3	624.7	449.3	381.1	528.6	544.6	408.4	393.0	60- 65	253.2	2714
70.0	542.2	570.3	378.0	293.9	474.3	491.2	338.9	309.7	65- 70	230.6	2945
75.0	485.8	514.6	308.8	227.4	418.4	438.5	276.7	235.4	70- 75	204.7	3150
80.0	430.9	460.5	248.9	157.7	366.2	386.3	219.0	165.9	75- 80	176.2	3326
85.0	380.1	407.7	193.6	98.20	332.3	337.7	167.5	107.6	80- 85	148.5	3475
90.0	319.5	351.5	146.9	59.68	268.2	289.0	125.7	75.17	85- 90	122.4	3597
95.0	234.9	278.5	103.5	42.08	193.5	220.5	86.34	51.15	90- 95	94.76	3692
100.0	205.8	237.6	60.33	21.57	161.1	190.1	49.92	32.34	95-100	71.13	3763
105.0	180.4	206.1	46.77	15.46	137.1	161.6	36.73	25.56	100-105	59.40	3822
110.0	151.9	173.8	33.71	9.655	111.7	132.7	25.72	18.85	105-110	48.17	3870
115.0	123.6	144.1	23.90	5.783	90.45	107.3	16.40	13.52	110-115	37.67	3908
120.0	94.69	115.3	16.28	1.911	71.22	84.47	6.122	8.808	115-120	28.43	3937
125.0	0	0	0	0	0	0	0	0	120-125	2.399	3939
130.0	0	0	0	0	0	0	0	0	125-130	0	3939
135.0	0	0	0	0	0	0	0	0	130-135	0	3939
140.0	0	0	0	0	0	0	0	0	135-140	0	3939
145.0	0	0	0	0	0	0	0	0	140-145	0	3939
150.0	0	0	0	0	0	0	0	0	145-150	0	3939
155.0	0	0	0	0	0	0	0	0	150-155	0	3939
160.0	0	0	0	0	0	0	0	0	155-160	0	3939
165.0	0	0	0	0	0	0	0	0	160-165	0	3939
170.0	0	0	0	0	0	0	0	0	165-170	0	3939
175.0	0	0	0	0	0	0	0	0	170-175	0	3939
180.0	0	0	0	0	0	0	0	0	175-180	0	3939
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年10月18日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

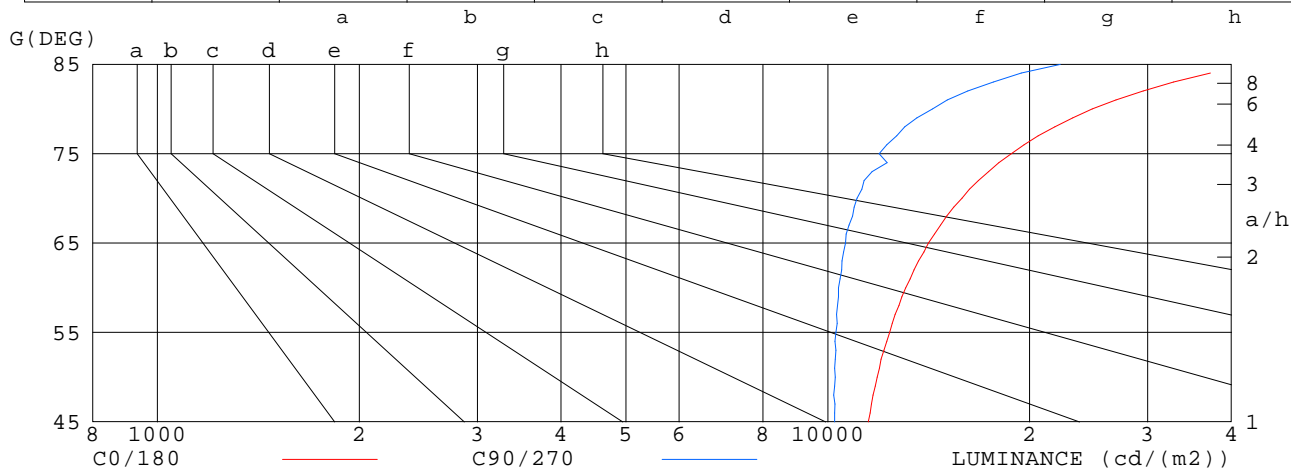
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: D50 1.2 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*50mm	SERIAL No.:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
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	43615	22221
80	24818	14338
75	18773	11934
70	15855	11054
65	14134	10632
60	13072	10376
55	12372	10285
50	11843	10260
45	11485	10232

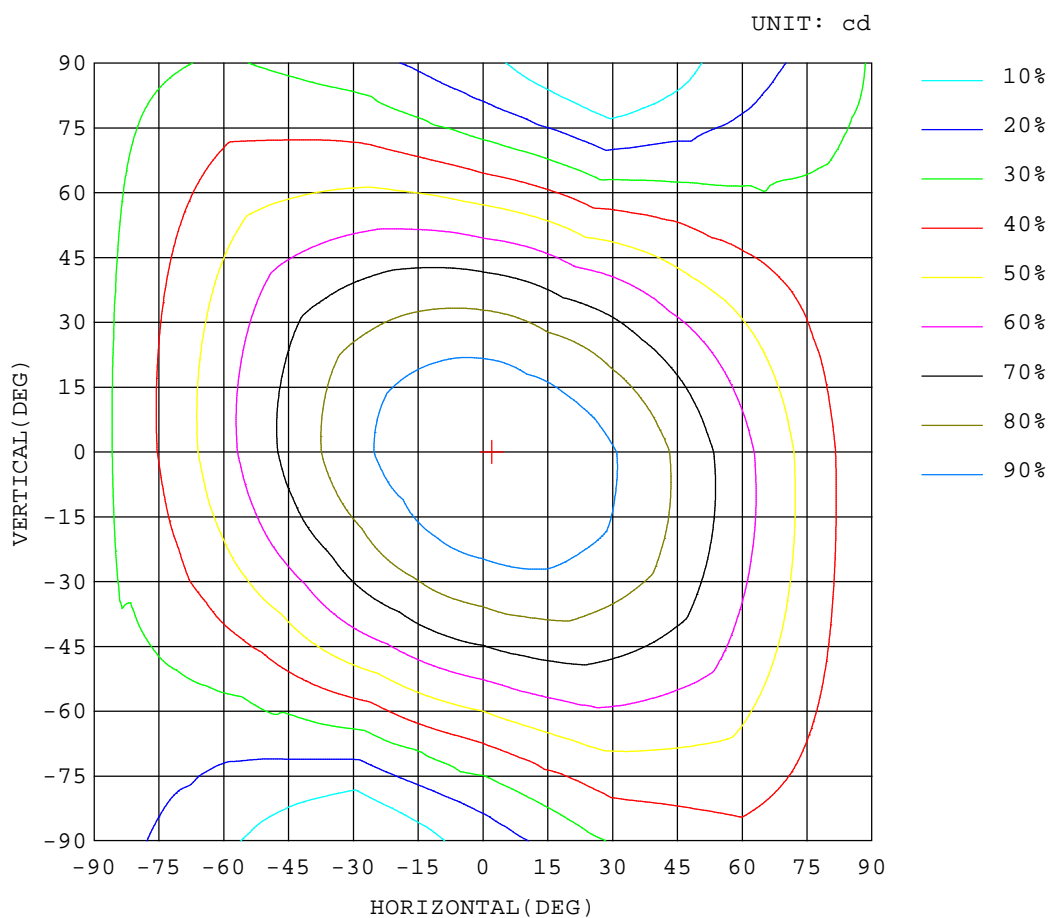
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年10月18日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: D50 1.2 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*50mm	SERIAL No.:



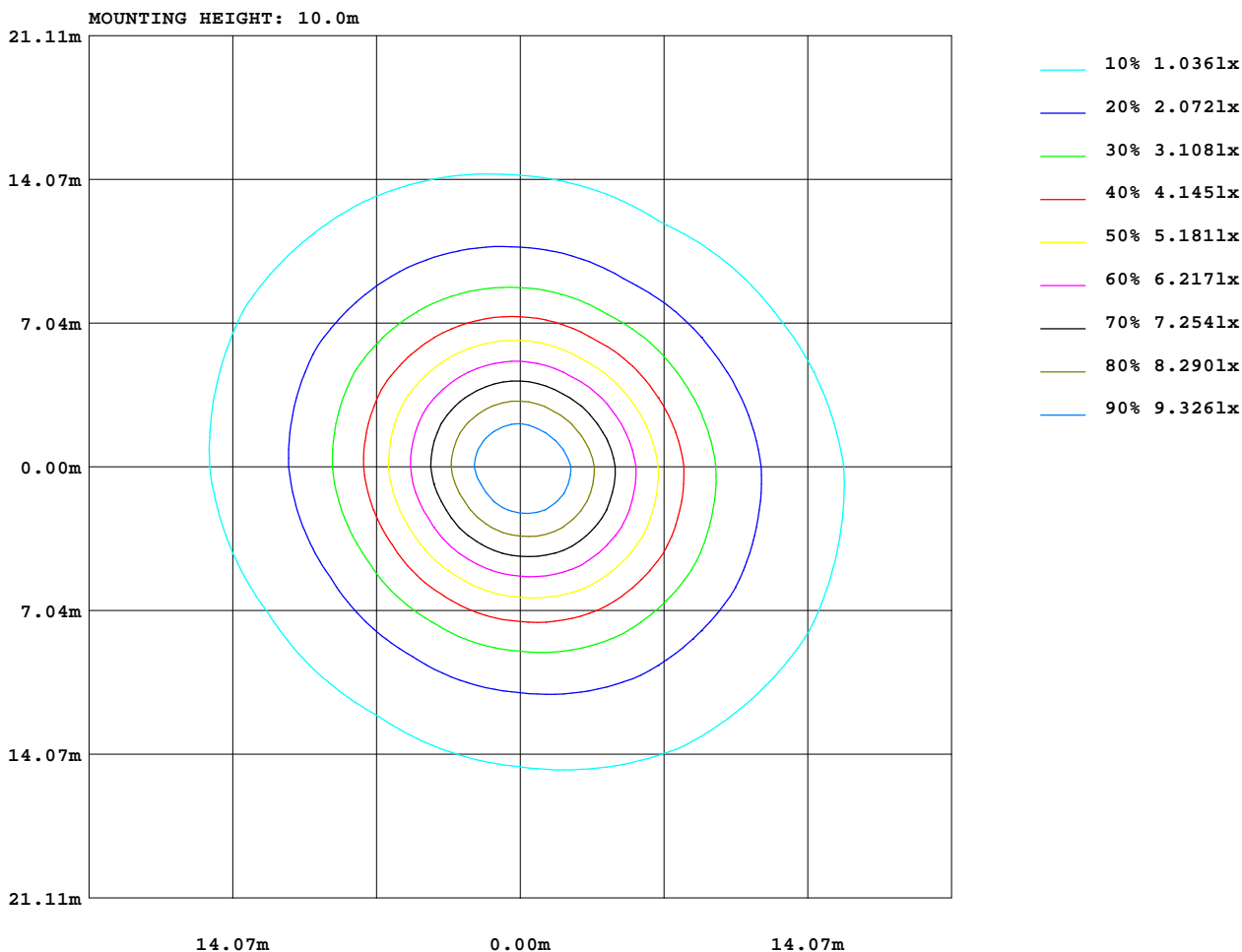
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年10月18日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: D50 1.2 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*50mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年10月18日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:																				
Address:																				
NAME: D50 1.2 M 5000K										TYPE:					WEIGHT:					
SPECIFICATION:										DIMENSION: 1200*50mm					SERIAL No.:					

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.76	2.44	4.31	5.93	6.98	7.67	7.67	6.93	5.81	4.40	2.83	1.25	1.14	2.08	2.56	2.54	1.95	0.77	68.1	63.1		
90																						
80																						
70																						
60																						
50																						
40																						
30																						

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年10月18日

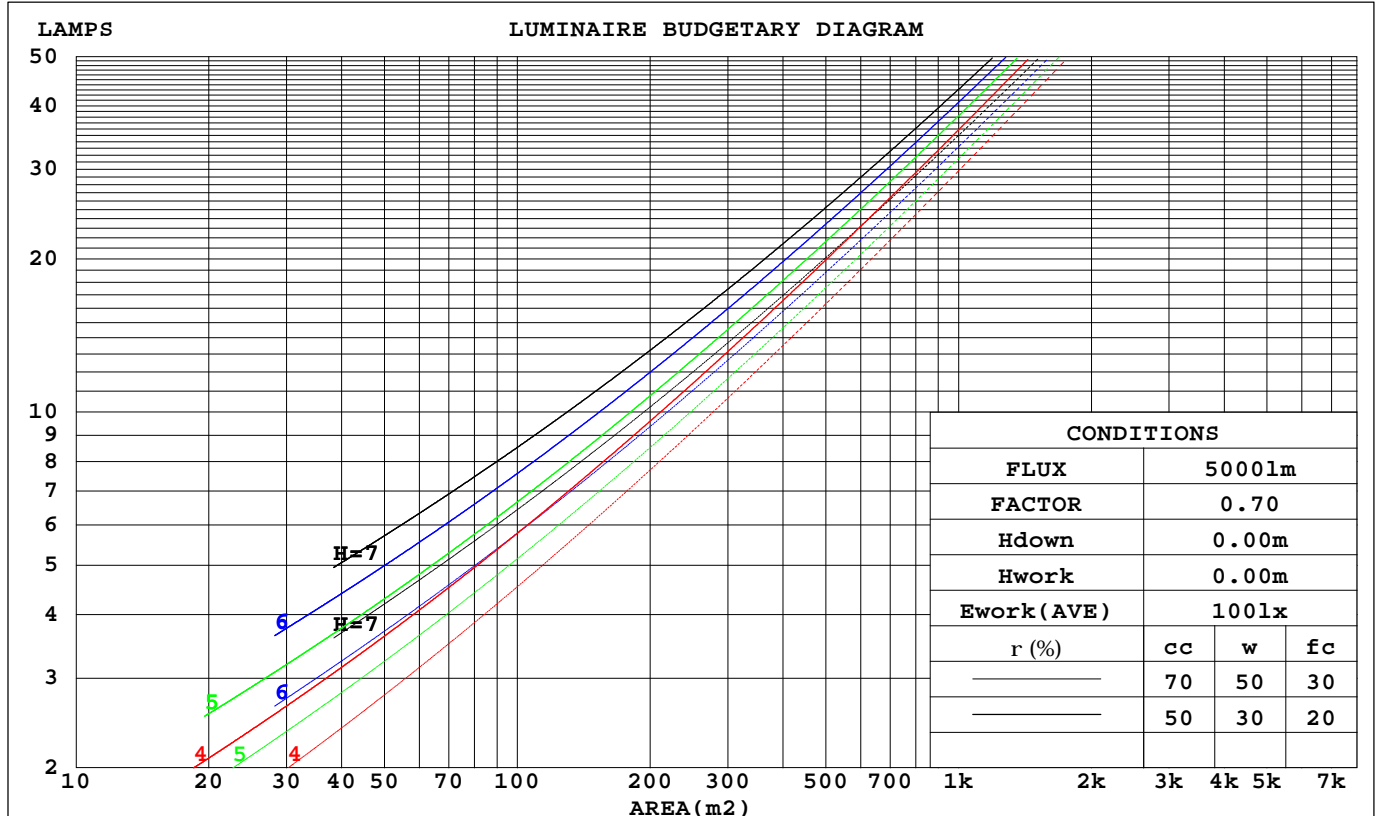
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: D50 1.2 M 5000K								TYPE:				WEIGHT:			
SPECIFICATION:								DIMENSION: 1200*50mm				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
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.17	1.17	1.17	1.13	1.13	1.13	1.06	1.06	1.06	.00	.00	.00	.94	.94	.94	.91
1.0	.98	.93	.88	.95	.90	.86	.89	.85	.82	.84	.80	.77	.79	.76	.74	.71
2.0	.84	.76	.70	.81	.74	.68	.76	.70	.65	.72	.67	.63	.67	.63	.60	.57
3.0	.73	.64	.57	.71	.63	.56	.67	.60	.54	.63	.57	.52	.59	.54	.50	.47
4.0	.64	.55	.48	.62	.54	.47	.59	.51	.45	.55	.49	.44	.52	.47	.42	.39
5.0	.57	.48	.41	.56	.47	.40	.52	.45	.39	.49	.43	.37	.47	.41	.36	.34
6.0	.51	.42	.35	.50	.41	.35	.47	.39	.34	.45	.38	.33	.42	.36	.32	.29
7.0	.46	.37	.31	.45	.36	.30	.43	.35	.30	.41	.34	.29	.38	.32	.28	.26
8.0	.42	.33	.27	.41	.33	.27	.39	.32	.26	.37	.30	.26	.35	.29	.25	.23
9.0	.39	.30	.24	.38	.30	.24	.36	.29	.24	.34	.28	.23	.33	.27	.22	.20
10.0	.36	.27	.22	.35	.27	.22	.33	.26	.21	.32	.25	.21	.30	.24	.20	.18



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年10月18日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

WEC AND CCEC

Report number:

MANUFACTURER:											
Address:											
NAME: D50 1.2 M 5000K						TYPE:			WEIGHT:		
SPECIFICATION:						DIMENSION: 1200*50mm			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															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.379	.215	.068	.369	.210	.067	.350	.201	.064	.333	.192	.062	.318	.184	.059															
2.0	.332	.182	.056	.323	.178	.055	.306	.170	.053	.291	.163	.051	.277	.156	.049															
3.0	.296	.158	.047	.288	.154	.046	.273	.148	.045	.260	.142	.044	.247	.137	.042															
4.0	.267	.139	.041	.260	.136	.040	.247	.131	.039	.234	.126	.038	.223	.121	.037															
5.0	.244	.124	.036	.237	.122	.035	.225	.117	.035	.214	.113	.034	.203	.109	.033															
6.0	.223	.112	.032	.218	.110	.032	.207	.106	.031	.197	.102	.030	.187	.098	.029															
7.0	.206	.102	.029	.201	.100	.029	.191	.097	.028	.182	.093	.027	.173	.090	.026															
8.0	.191	.094	.026	.187	.092	.026	.178	.089	.025	.169	.086	.025	.161	.083	.024															
9.0	.179	.086	.024	.174	.085	.024	.166	.082	.023	.158	.079	.023	.151	.077	.022															
10.0	.167	.080	.022	.163	.079	.022	.156	.076	.021	.149	.074	.021	.142	.071	.020															

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 Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.257	.257	.257	.219	.219	.219	.150	.150	.150	.086	.086	.086	.027	.027	.027	
1.0	.252	.222	.196	.215	.191	.168	.147	.131	.116	.085	.076	.068	.027	.024	.022	
2.0	.245	.199	.160	.210	.171	.139	.144	.118	.097	.083	.069	.057	.027	.022	.018	
3.0	.237	.182	.138	.203	.157	.120	.140	.109	.084	.081	.064	.050	.026	.021	.016	
4.0	.229	.169	.123	.197	.146	.107	.135	.102	.075	.078	.060	.045	.025	.019	.015	
5.0	.221	.159	.113	.190	.138	.099	.131	.096	.070	.076	.056	.041	.024	.018	.014	
6.0	.214	.151	.106	.184	.131	.092	.127	.092	.065	.074	.054	.039	.024	.018	.013	
7.0	.207	.144	.101	.178	.125	.088	.123	.088	.062	.071	.052	.037	.023	.017	.012	
8.0	.200	.139	.097	.172	.120	.084	.119	.084	.060	.069	.050	.036	.022	.016	.012	
9.0	.194	.134	.093	.167	.116	.081	.116	.082	.058	.067	.048	.034	.022	.016	.011	
10.0	.188	.129	.091	.162	.112	.079	.112	.079	.056	.065	.047	.034	.021	.015	.011	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年10月18日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

Uncorrected UGR Table

Report number:

MANUFACTURER:											
Address:											
NAME: D50 1.2 M 5000K						TYPE:			WEIGHT:		
SPECIFICATION:						DIMENSION: 1200*50mm			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	21.9	23.4	22.3	23.7	24.1	21.1	22.6	21.5	22.9	23.3	
	3H	24.3	25.6	24.7	26.0	26.5	23.0	24.4	23.5	24.8	25.2
	4H	25.6	26.9	26.0	27.3	27.7	24.0	25.4	24.5	25.8	26.2
	6H	26.9	28.2	27.4	28.6	29.1	25.0	26.2	25.4	26.7	27.1
	8H	27.7	28.9	28.2	29.4	29.8	25.5	26.7	25.9	27.1	27.6
	12H	28.6	29.7	29.1	30.2	30.7	26.0	27.2	26.5	27.6	28.1
4H	2H	22.7	24.0	23.1	24.4	24.9	22.2	23.5	22.6	23.9	24.3
	3H	25.4	26.6	25.9	27.0	27.5	24.5	25.6	24.9	26.1	26.6
	4H	26.9	27.9	27.4	28.4	28.9	25.7	26.7	26.2	27.2	27.7
	6H	28.5	29.4	29.0	29.9	30.5	26.8	27.8	27.4	28.3	28.9
	8H	29.3	30.2	29.9	30.8	31.3	27.4	28.3	28.0	28.8	29.4
	12H	30.3	31.1	30.9	31.7	32.3	28.0	28.9	28.6	29.4	30.0
8H	4H	27.5	28.4	28.0	28.9	29.5	26.5	27.4	27.1	27.9	28.5
	6H	29.4	30.2	30.0	30.7	31.3	28.1	28.9	28.7	29.4	30.0
	8H	30.5	31.2	31.1	31.8	32.4	28.9	29.6	29.5	30.2	30.8
	12H	31.7	32.3	32.3	32.9	33.6	29.8	30.4	30.4	31.0	31.6
12H	4H	27.6	28.4	28.2	29.0	29.6	26.8	27.6	27.3	28.1	28.7
	6H	29.7	30.3	30.2	30.9	31.6	28.5	29.2	29.1	29.8	30.4
	8H	30.9	31.5	31.5	32.1	32.7	29.5	30.1	30.1	30.7	31.4
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.5					

CIE Pub.117 Corrected 3939 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.8)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年10月18日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:		
Address:		
NAME: D50 1.2 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*50mm	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) $k(RI) \times RCR = 5$									
$k = 0.60$	51	39	31	50	38	31	49	38	31	24
0.80	60	48	40	59	47	39	57	46	39	32
1.00	68	56	48	67	55	47	64	56	47	39
1.25	75	63	55	73	62	54	70	60	53	45
1.50	80	69	60	78	67	60	74	65	58	49
2.00	88	77	69	85	75	68	81	73	66	56
2.50	92	82	75	89	80	73	84	77	71	60
3.00	96	87	80	93	85	78	87	81	75	64
4.00	100	93	86	97	90	85	91	86	81	69
5.00	103	96	91	100	94	89	94	89	85	73
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

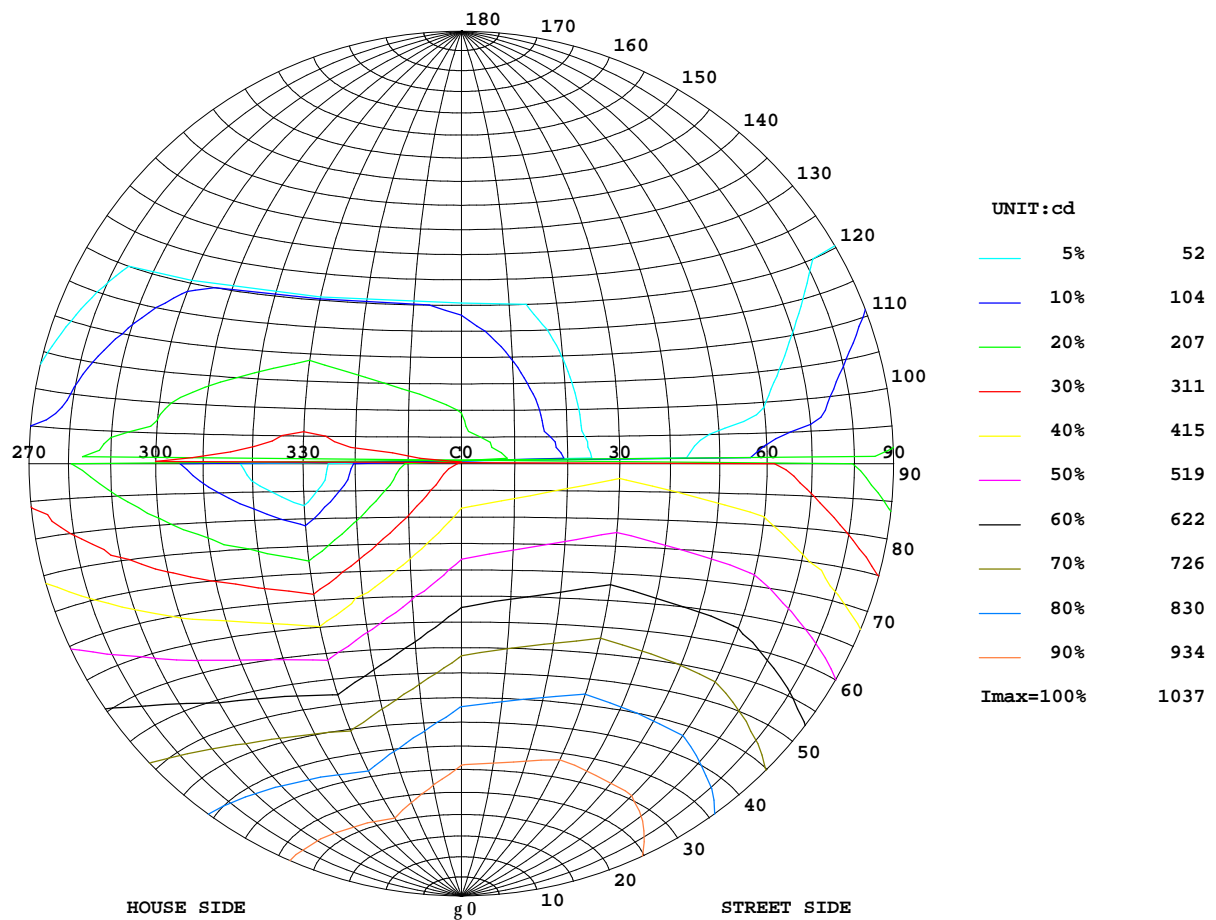
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年10月18日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: D50 1.2 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*50mm	SERIAL No.:



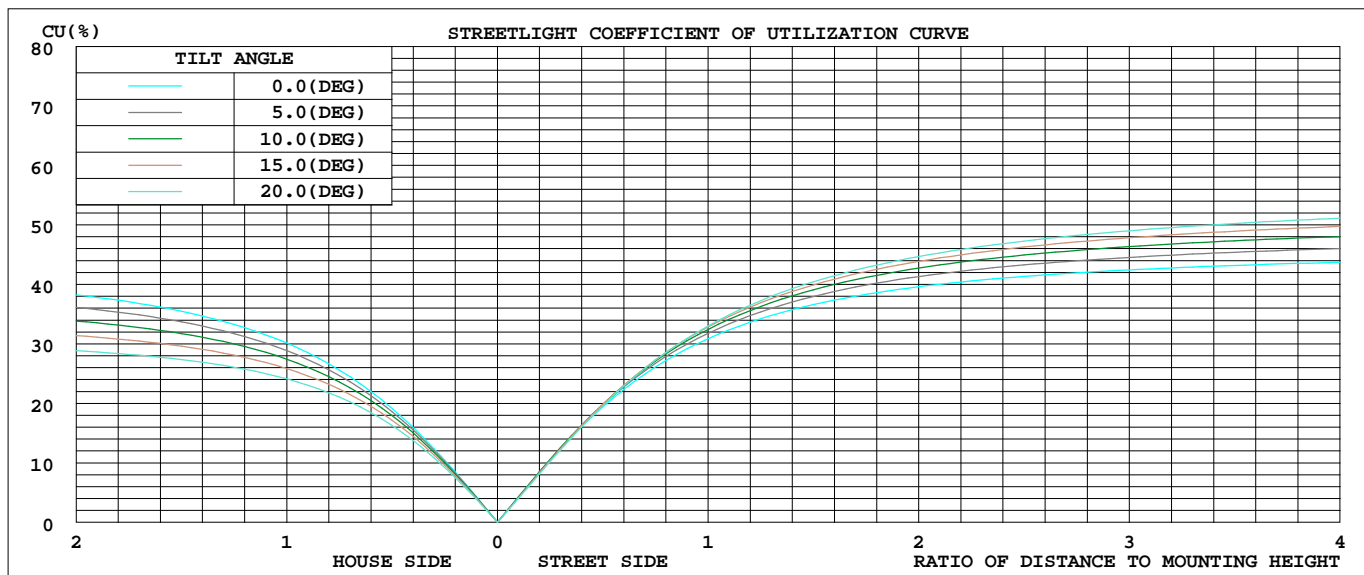
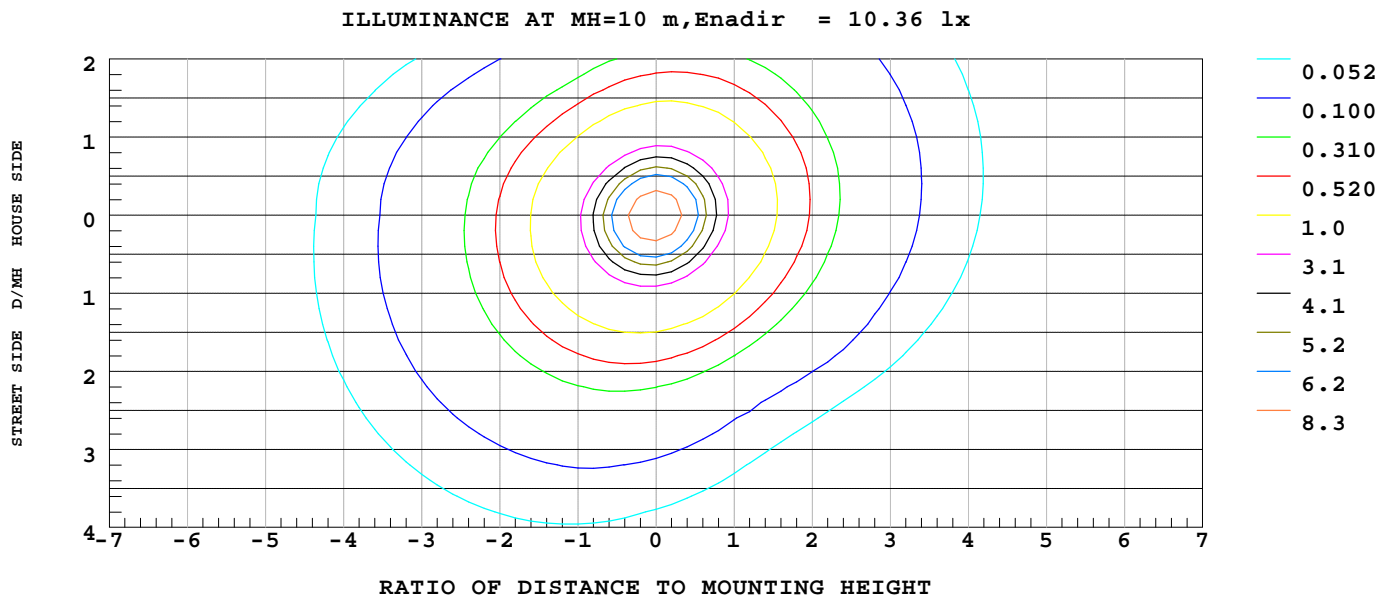
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年10月18日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: D50 1.2 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*50mm	SERIAL No.:



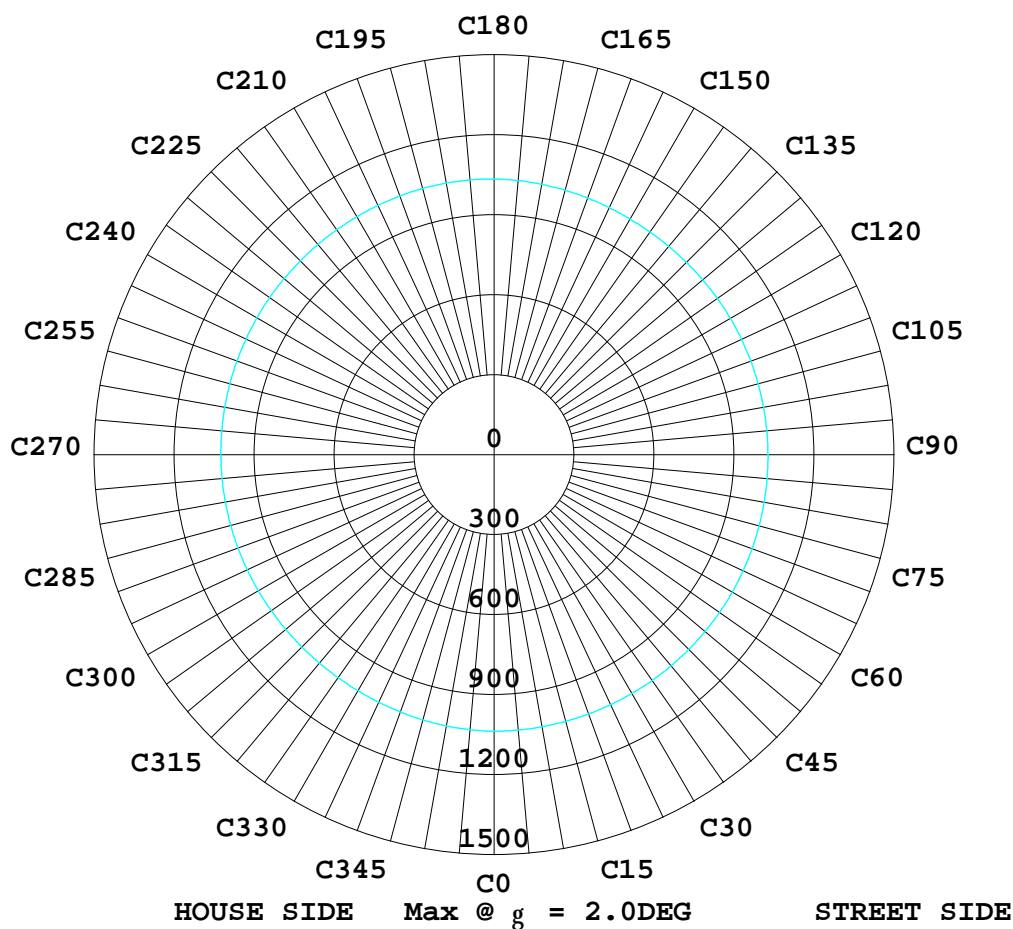
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年10月18日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: D50 1.2 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1200*50mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年10月18日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks: