

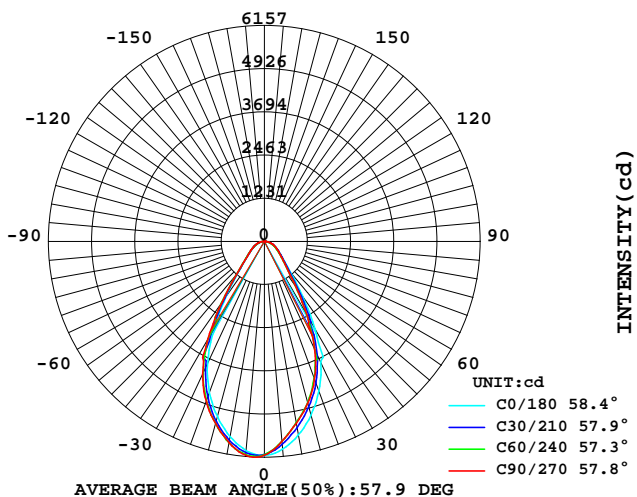
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

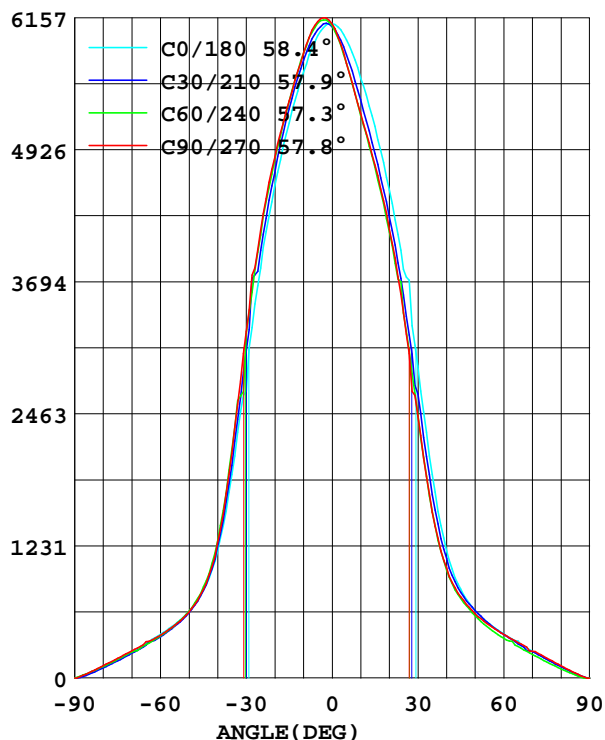
MANUFACTURER:		
Address:		
NAME: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65	SERIAL No.:

DATA OF LAMP		Imax(cd)	6157	S/MH(C0/180)	0.88
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	0.91
NOMINAL POWER(W)	44	TOTAL FLUX(lm)	6478.7	Voltage(V)	218.6
RATED VOLTAGE(V)	218	EFFICIENCY(lm/W)	148.2	Current(A)	0.210
NOMINAL FLUX(lm)	6478.8	h up(%)	0.0	Power(W)	43.73
LAMPS QUANTITY	1	h down(%)	100.0	Power Factor(PF)	0.950
TEST VOLTAGE(V)	218.7	Effective Flux(lm)	5488.5	EEI	0.109

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



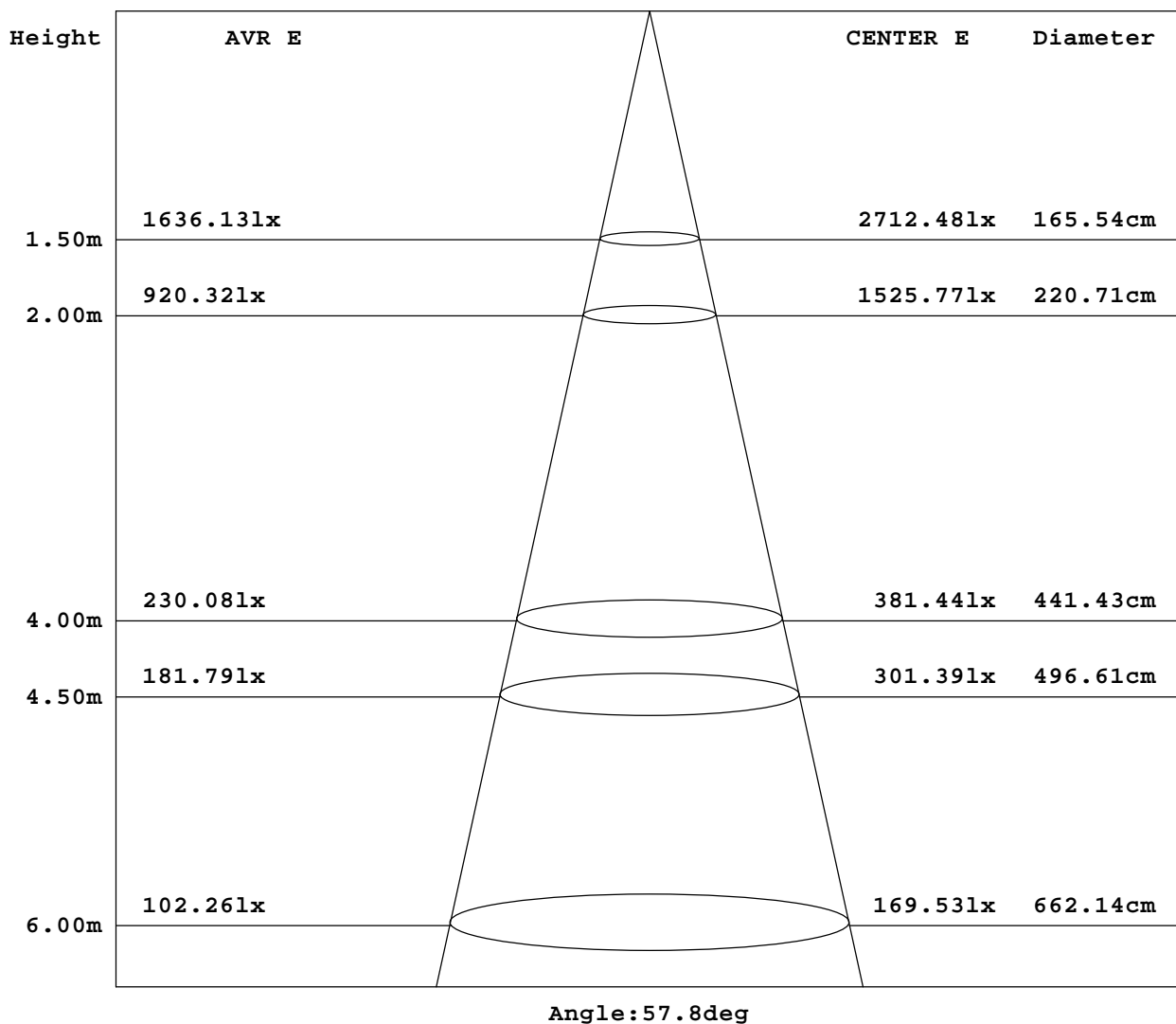
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019年08月07日

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: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65	SERIAL No.:



Test System: HOPOO HPG1800  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2019年08月07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: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65	SERIAL No.:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	5990	6075	6120	6027	5951	5770	5728	5791	0- 5	143.5	143.5
10.0	5652	5795	5829	5741	5595	5322	5265	5361	5- 10	410.5	554.0
15.0	5175	5343	5381	5289	5145	4827	4784	4877	10- 15	631.5	1186
20.0	4588	4774	4851	4723	4549	4228	4183	4286	15- 20	792.0	1978
25.0	3821	4057	4178	4014	3809	3486	3409	3662	20- 25	872.8	2850
30.0	2676	3133	3232	3096	2909	2556	2446	2598	25- 30	841.9	3692
35.0	1897	2058	2094	2035	1896	1629	1545	1670	30- 35	682.5	4375
40.0	1178	1246	1258	1240	1184	1059	1025	1072	35- 40	489.7	4865
45.0	820.6	831.6	826.7	833.6	827.3	769.9	757.4	771.0	40- 45	354.0	5219
50.0	620.6	614.5	614.0	618.8	626.7	603.4	597.2	598.7	45- 50	282.2	5501
55.0	496.2	483.8	491.3	488.4	501.6	481.5	492.3	474.9	50- 55	237.0	5738
60.0	407.6	389.0	399.1	392.8	412.3	388.6	406.7	383.2	55- 60	202.5	5941
65.0	323.3	308.0	339.2	309.8	343.8	305.9	330.1	302.2	60- 65	172.4	6113
70.0	247.3	235.2	252.7	238.3	248.0	233.4	248.7	230.5	65- 70	138.8	6252
75.0	178.1	166.3	183.0	169.2	177.4	162.3	185.4	160.0	70- 75	107.0	6359
80.0	108.4	100.2	113.6	102.6	108.2	96.08	115.2	94.63	75- 80	72.61	6432
85.0	42.90	41.03	49.56	42.60	41.93	34.98	46.29	34.19	80- 85	38.58	6470
90.0	0	0	0	0	0	0	0	0	85- 90	8.514	6479
95.0	0	0	0	0	0	0	0	0	90- 95	0	6479
100.0	0	0	0	0	0	0	0	0	95-100	0	6479
105.0	0	0	0	0	0	0	0	0	100-105	0	6479
110.0	0	0	0	0	0	0	0	0	105-110	0	6479
115.0	0	0	0	0	0	0	0	0	110-115	0	6479
120.0	0	0	0	0	0	0	0	0	115-120	0	6479
125.0	0	0	0	0	0	0	0	0	120-125	0	6479
130.0	0	0	0	0	0	0	0	0	125-130	0	6479
135.0	0	0	0	0	0	0	0	0	130-135	0	6479
140.0	0	0	0	0	0	0	0	0	135-140	0	6479
145.0	0	0	0	0	0	0	0	0	140-145	0	6479
150.0	0	0	0	0	0	0	0	0	145-150	0	6479
155.0	0	0	0	0	0	0	0	0	150-155	0	6479
160.0	0	0	0	0	0	0	0	0	155-160	0	6479
165.0	0	0	0	0	0	0	0	0	160-165	0	6479
170.0	0	0	0	0	0	0	0	0	165-170	0	6479
175.0	0	0	0	0	0	0	0	0	170-175	0	6479
180.0	0	0	0	0	0	0	0	0	175-180	0	6479
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019年08月07日

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

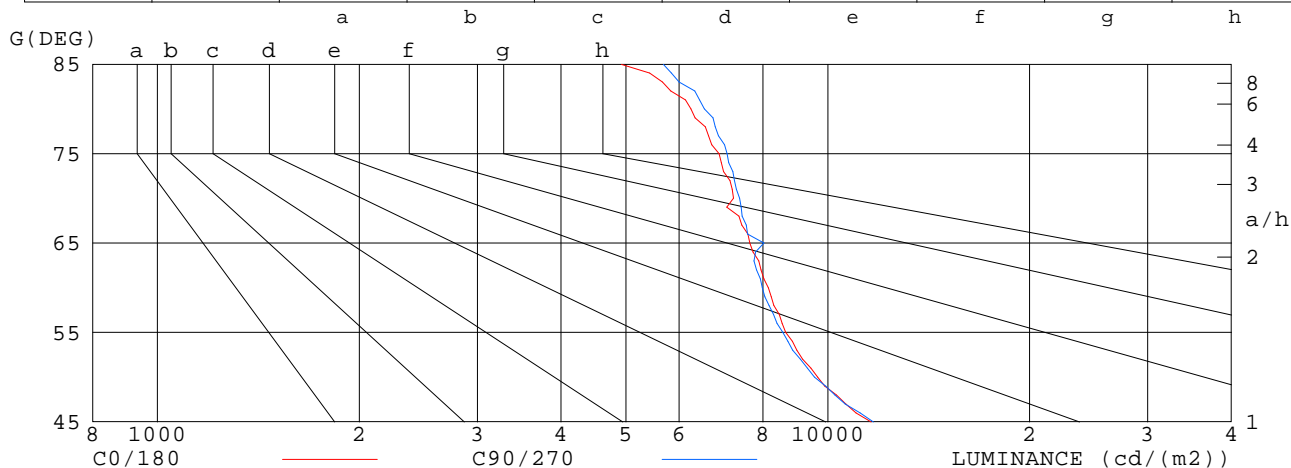
## LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65	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	4923	5687
80	6248	6547
75	6885	7072
70	7233	7389
65	7652	8027
60	8152	7983
55	8653	8566
50	9656	9553
45	11606	11692

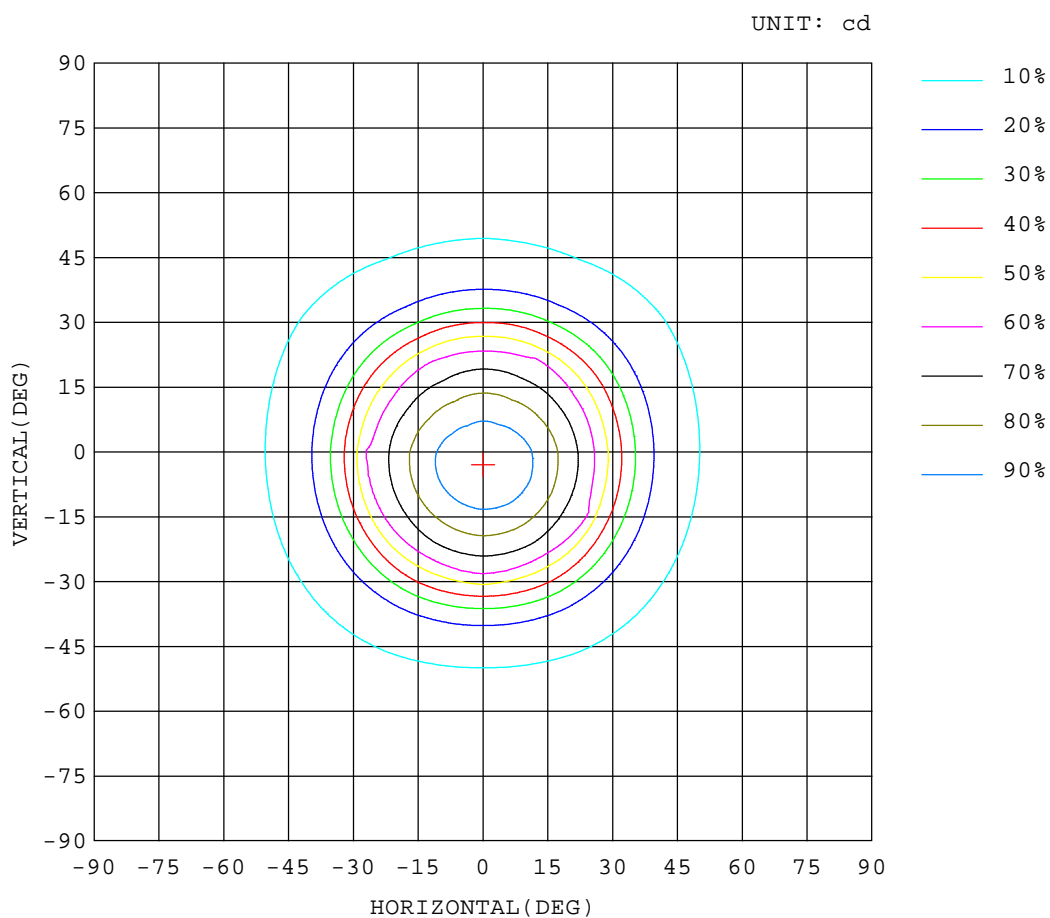
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月07日

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: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65	SERIAL No.:



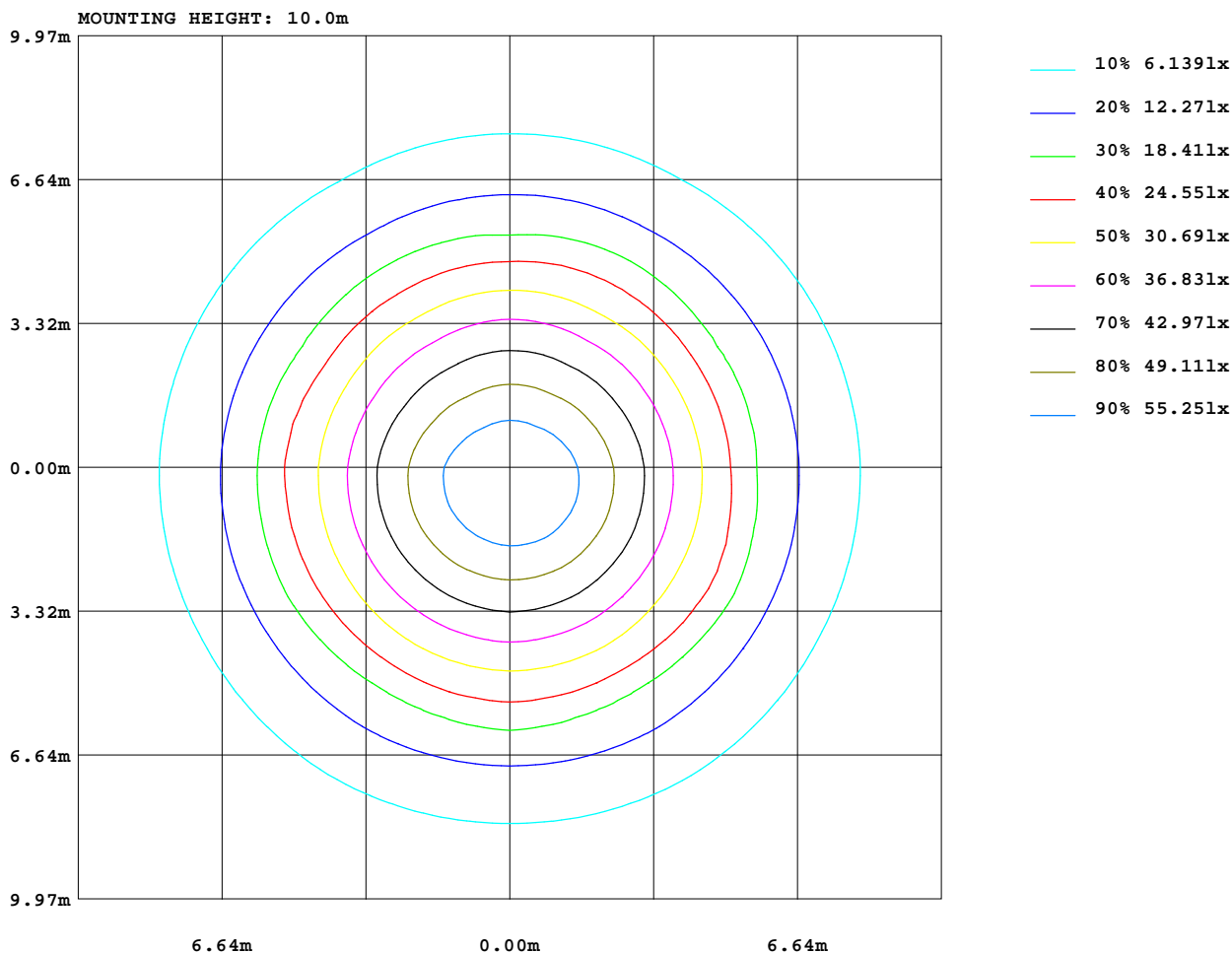
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月07日

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: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65	SERIAL No.:



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月07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: 44W										TYPE:					WEIGHT:				
SPECIFICATION:										DIMENSION: 1150*65					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.00	0.04	0.17	0.33	0.48	0.60	0.81	1.11	1.37	1.37	1.11	0.80	0.60	0.47	0.32	0.16	0.04	0.00	9.81	0.00		
90																						
80																						
70																						
60																						
50																						
40																						
30																						

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019年08月07日

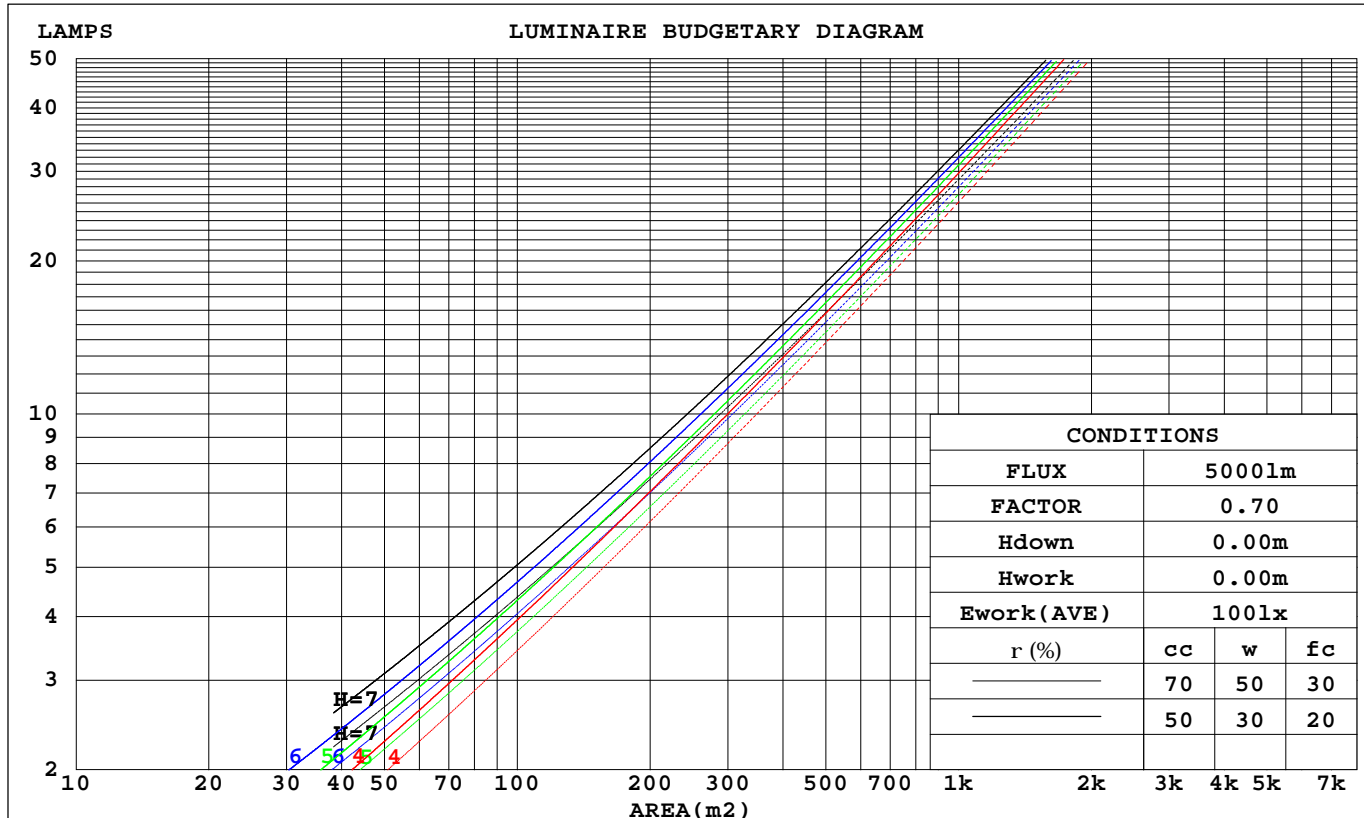
Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:11.000 m  
 Remarks:

### CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65	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/c	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	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.00	.98	.98	.96	.95	.95	.93	.92	.90														
2.0	.99	.93	.89	.97	.92	.88	.93	.90	.86	.90	.87	.84	.87	.85	.83	.81														
3.0	.90	.84	.79	.89	.83	.78	.86	.81	.77	.83	.79	.76	.81	.78	.75	.73														
4.0	.83	.76	.71	.82	.75	.71	.79	.74	.70	.77	.73	.69	.75	.71	.68	.66														
5.0	.77	.70	.65	.76	.69	.64	.74	.68	.64	.72	.67	.63	.70	.66	.62	.61														
6.0	.71	.64	.59	.70	.64	.59	.69	.63	.58	.67	.62	.58	.66	.61	.58	.56														
7.0	.66	.59	.54	.66	.59	.54	.64	.58	.54	.63	.58	.54	.62	.57	.53	.52														
8.0	.62	.55	.50	.61	.55	.50	.60	.54	.50	.59	.54	.50	.58	.53	.50	.48														
9.0	.58	.51	.47	.58	.51	.47	.57	.51	.47	.56	.50	.46	.55	.50	.46	.45														
10.0	.55	.48	.44	.54	.48	.44	.53	.48	.44	.53	.47	.44	.52	.47	.43	.42														



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月07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: 44W						TYPE:				WEIGHT:	
SPECIFICATION:						DIMENSION: 1150*65				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	.226	.128	.041	.219	.125	.040	.206	.118	.038	.194	.112	.036	.183	.106	.034															
2.0	.214	.117	.036	.208	.115	.035	.197	.110	.034	.187	.105	.033	.178	.100	.032															
3.0	.201	.107	.032	.196	.105	.032	.186	.101	.031	.177	.097	.030	.169	.094	.029															
4.0	.188	.098	.029	.184	.096	.028	.176	.093	.028	.168	.090	.027	.161	.087	.027															
5.0	.177	.090	.026	.173	.089	.026	.166	.086	.025	.159	.084	.025	.153	.082	.024															
6.0	.166	.083	.024	.163	.082	.024	.157	.080	.023	.151	.078	.023	.145	.076	.023															
7.0	.157	.078	.022	.154	.077	.022	.148	.075	.022	.143	.073	.021	.138	.072	.021															
8.0	.149	.073	.020	.146	.072	.020	.141	.070	.020	.136	.069	.020	.132	.068	.020															
9.0	.141	.068	.019	.139	.068	.019	.134	.066	.019	.130	.065	.019	.126	.064	.018															
10.0	.134	.064	.018	.132	.064	.018	.128	.063	.018	.124	.062	.017	.120	.060	.017															

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.174	.157	.141	.149	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.107	.139	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.151	.114	.084	.130	.098	.073	.089	.068	.051	.051	.040	.030	.017	.013	.010	
4.0	.142	.100	.067	.122	.086	.059	.084	.060	.041	.048	.035	.024	.016	.011	.008	
5.0	.134	.088	.055	.115	.077	.048	.079	.053	.034	.046	.031	.020	.015	.010	.007	
6.0	.126	.079	.046	.109	.069	.040	.075	.048	.028	.043	.028	.017	.014	.009	.006	
7.0	.120	.072	.039	.103	.063	.034	.071	.044	.024	.041	.026	.014	.013	.008	.005	
8.0	.114	.066	.033	.098	.057	.029	.068	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.108	.061	.029	.093	.053	.025	.065	.037	.018	.038	.022	.011	.012	.007	.004	
10.0	.103	.057	.026	.089	.049	.022	.062	.035	.016	.036	.020	.009	.012	.007	.003	

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019年08月07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: 44W					TYPE:			WEIGHT:			
SPECIFICATION:					DIMENSION: 1150*65			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	18.5	19.6	18.7	19.8	20.0	18.6	19.8	18.8	19.9	20.1	
	3H	19.5	20.5	19.7	20.7	21.0	19.6	20.7	19.9	20.9	21.1
	4H	19.9	20.9	20.2	21.2	21.4	20.1	21.1	20.4	21.3	21.6
	6H	20.3	21.2	20.6	21.5	21.7	20.5	21.4	20.8	21.7	21.9
	8H	20.4	21.3	20.7	21.6	21.8	20.6	21.5	20.9	21.8	22.1
	12H	20.5	21.3	20.8	21.6	21.9	20.7	21.6	21.0	21.8	22.1
4H	2H	18.8	19.8	19.1	20.0	20.3	18.9	19.9	19.2	20.2	20.4
	3H	20.0	20.9	20.3	21.2	21.5	20.2	21.0	20.5	21.3	21.6
	4H	20.6	21.4	21.0	21.7	22.0	20.8	21.6	21.1	21.9	22.2
	6H	21.1	21.8	21.5	22.1	22.5	21.3	22.0	21.7	22.3	22.7
	8H	21.2	21.9	21.6	22.2	22.6	21.5	22.1	21.9	22.5	22.9
	12H	21.3	21.9	21.7	22.3	22.7	21.6	22.2	22.0	22.6	23.0
8H	4H	20.8	21.4	21.2	21.8	22.2	20.9	21.6	21.4	22.0	22.3
	6H	21.4	21.9	21.8	22.3	22.7	21.6	22.1	22.0	22.5	23.0
	8H	21.6	22.1	22.0	22.5	22.9	21.9	22.4	22.3	22.8	23.2
	12H	21.7	22.2	22.2	22.6	23.1	22.1	22.5	22.5	22.9	23.4
12H	4H	20.8	21.4	21.2	21.8	22.2	20.9	21.5	21.4	21.9	22.3
	6H	21.4	21.9	21.9	22.3	22.8	21.6	22.1	22.1	22.5	23.0
	8H	21.7	22.1	22.1	22.5	23.0	21.9	22.4	22.4	22.8	23.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5					
1.5H	+ 0.6 / - 0.3					+ 0.8 / - 0.4					
2.0H	+ 0.5 / - 0.3					+ 0.5 / - 0.3					

CIE Pub.117 Corrected 6479 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.5)

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019年08月07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: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65	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) $k(RI) \times RCR = 5$									
$k = 0.60$	76	68	63	76	68	63	75	67	63	58
0.80	85	77	72	84	76	71	82	76	71	66
1.00	91	83	78	90	82	78	88	83	77	72
1.25	96	89	84	95	88	83	92	87	83	77
1.50	99	93	88	98	92	87	95	90	86	81
2.00	104	98	93	102	97	93	99	95	91	85
2.50	106	101	97	104	99	96	101	97	94	87
3.00	108	104	100	106	102	99	103	99	97	89
4.00	111	107	104	109	105	103	105	102	100	92
5.00	113	109	107	110	108	105	106	104	102	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

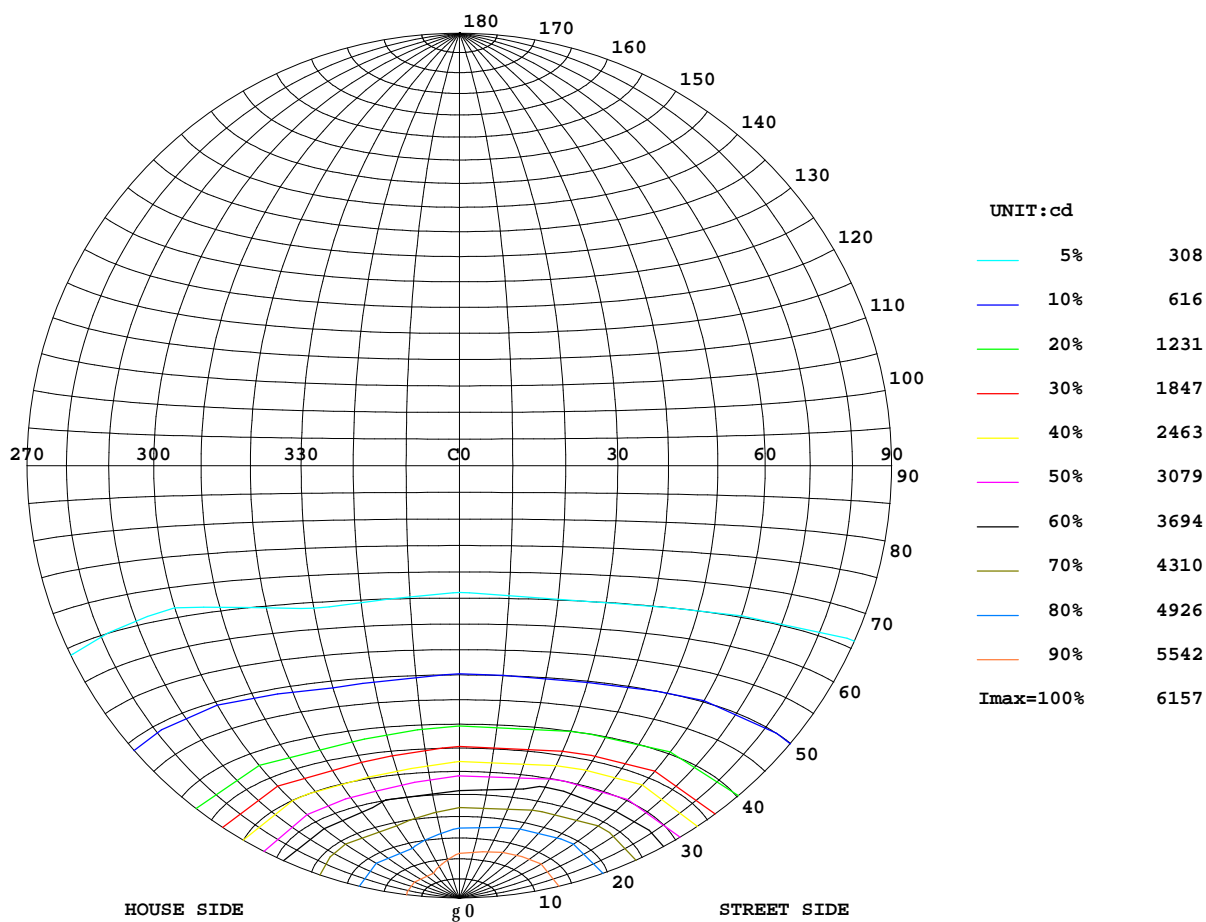
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019年08月07日

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: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65	SERIAL No.:



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月07日

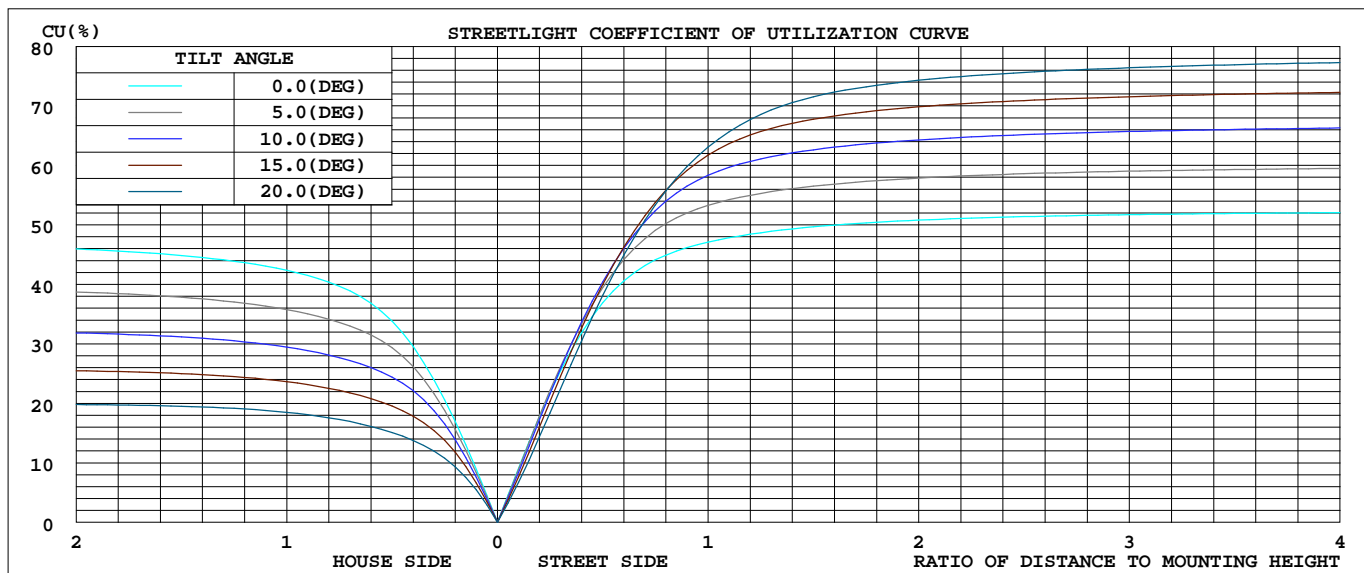
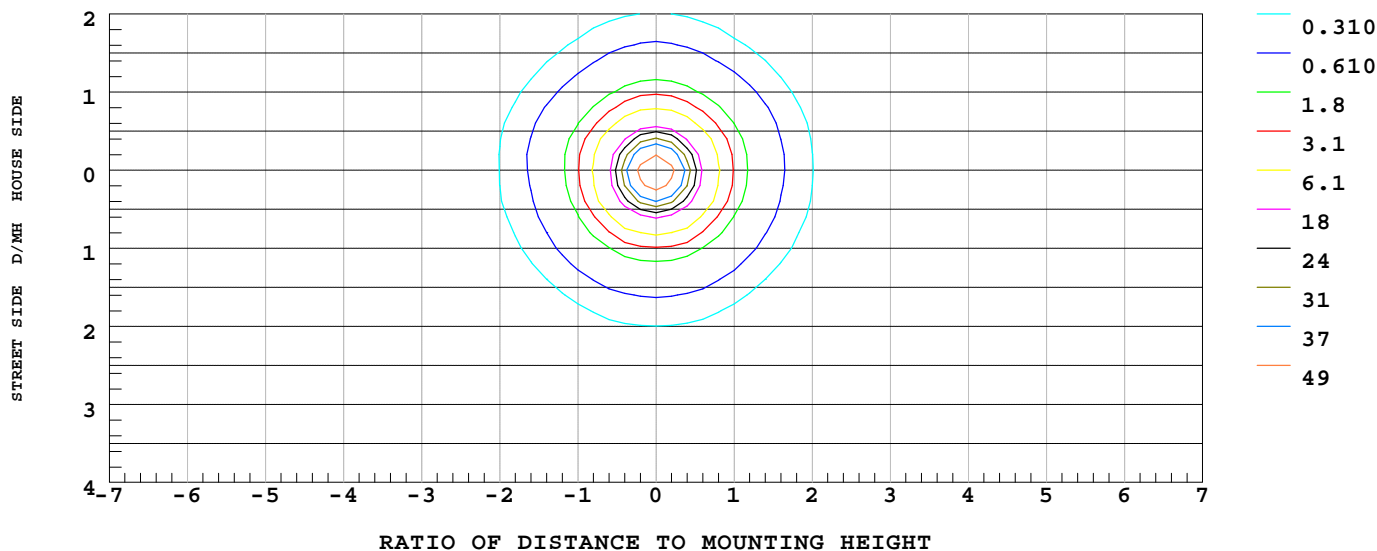
Test Set: 8.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:11.000 m  
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 61.03 lx



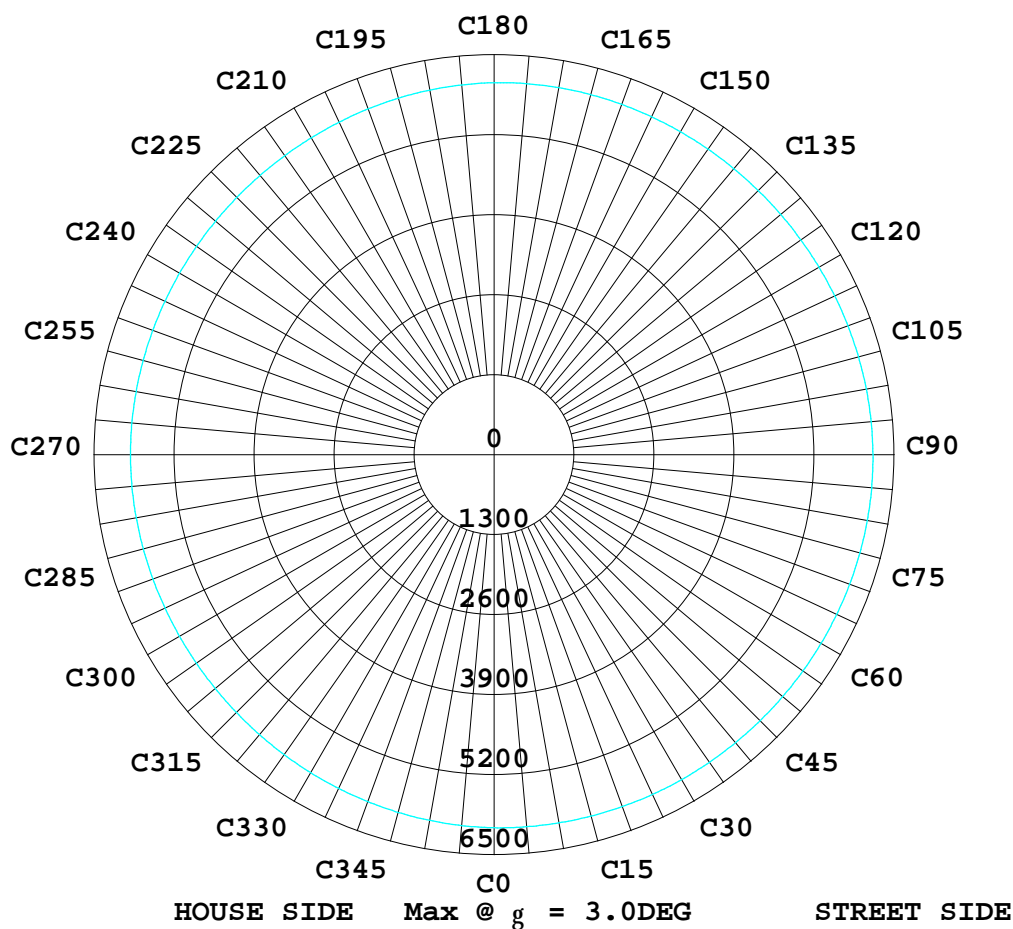
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月07日

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: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65	SERIAL No.:



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月07日

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