

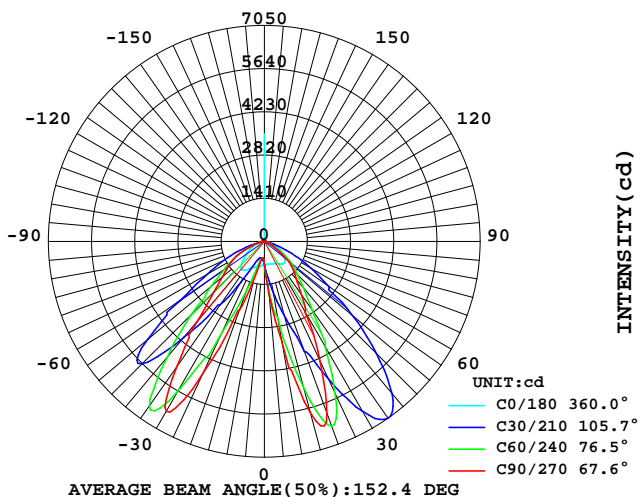
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

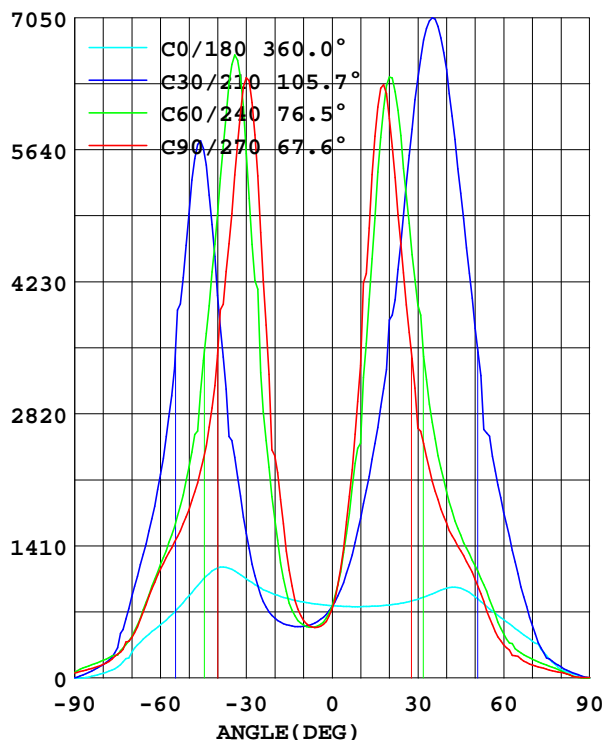
MANUFACTURER:		
Address:		
NAME: DS25°70W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:

DATA OF LAMP		I <sub>max</sub> (cd)	7162	S/MH(C0/180)	1.80
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	2.29
NOMINAL POWER(W)	70	TOTAL FLUX(lm)	9789.2	Voltage(V)	218.6
RATED VOLTAGE(V)	218	EFFICIENCY(lm/W)	139.3	Current(A)	0.329
NOMINAL FLUX(lm)	9789.3	h up(%)	0.1	Power(W)	70.26
LAMPS QUANTITY	1	h down(%)	99.9	Power Factor(PF)	0.975
TEST VOLTAGE(V)	218.7	Effective Flux(lm)	9085.8	EEI	0.105

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



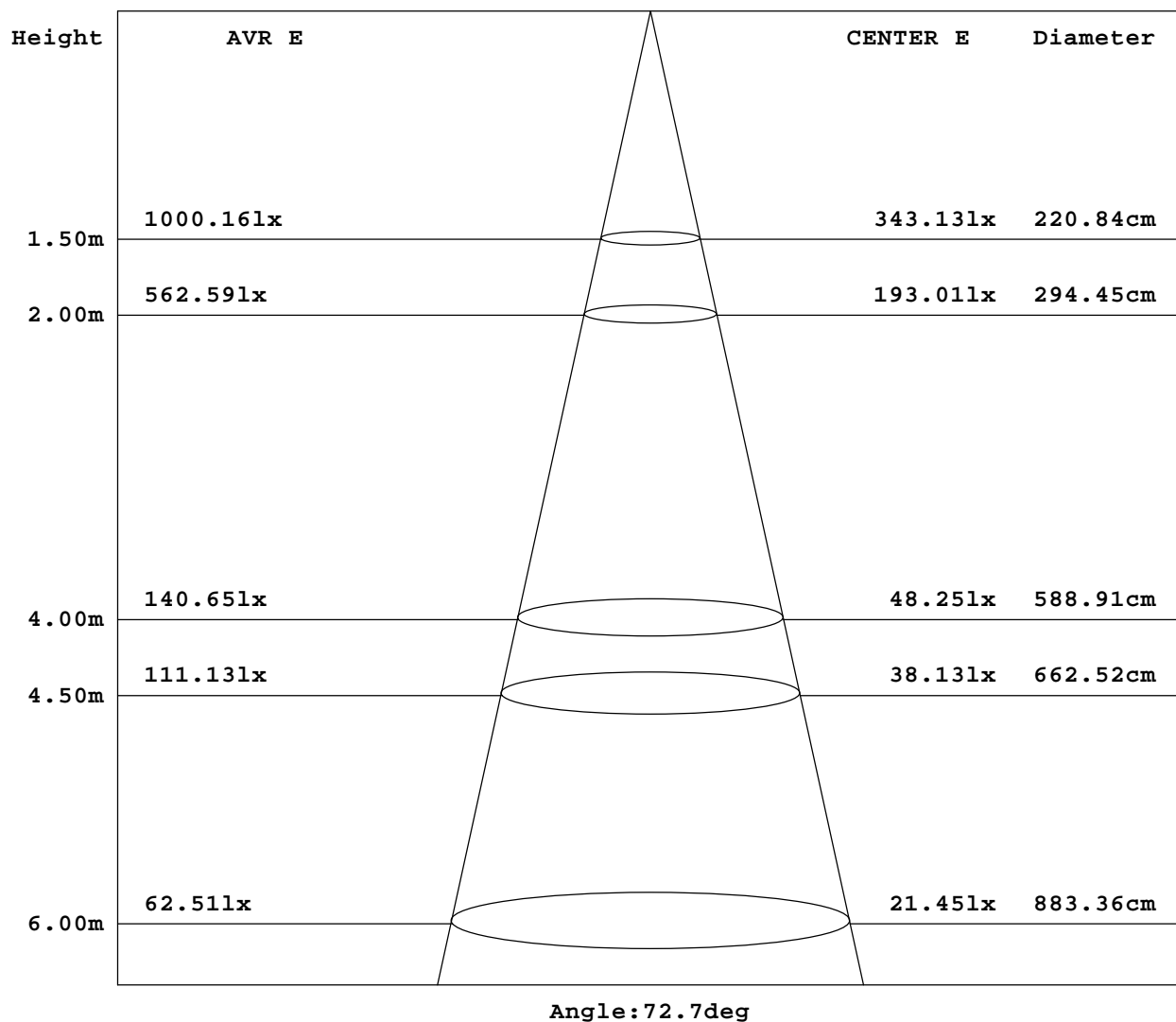
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月13日

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: DS25°70W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:



Test System: HOPOO HPG1800  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2019年08月13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: DS25°70W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	786.3	579.1	540.0	559.6	762.6	1328	1667	1255	0- 5	20.09	20.09
10.0	810.4	558.5	612.0	556.0	761.8	2104	3337	2066	5- 10	83.07	103.1
15.0	844.0	679.3	1149	706.1	767.6	3705	5784	3687	10- 15	212.5	315.6
20.0	891.7	1169	2372	1234	778.7	5119	5971	5150	15- 20	428.6	744.3
25.0	961.4	2071	4756	2175	802.9	5190	4323	5319	20- 25	659.6	1404
30.0	1058	3570	6410	3648	840.5	5190	2667	5382	25- 30	927.1	2331
35.0	1159	4542	4956	4497	897.1	4889	2099	4843	30- 35	1168	3499
40.0	1174	4511	3441	4505	957.5	4239	1653	3901	35- 40	1228	4727
45.0	1059	4521	2337	4786	958.3	3349	1357	2913	40- 45	1209	5935
50.0	877.4	3602	1796	4428	866.4	2466	1051	1853	45- 50	1124	7060
55.0	703.0	2463	1453	3200	735.7	1708	639.5	1329	50- 55	909.5	7969
60.0	569.9	1695	1165	2201	624.4	1121	353.6	857.9	55- 60	673.9	8643
65.0	441.7	1119	782.9	1455	505.9	701.3	231.9	475.9	60- 65	480.6	9124
70.0	272.6	652.7	427.8	953.4	392.4	378.5	138.3	226.2	65- 70	315.3	9439
75.0	117.9	283.5	253.5	482.1	240.0	175.7	93.60	131.4	70- 75	182.3	9622
80.0	50.40	165.1	143.5	217.8	92.15	98.44	59.60	58.87	75- 80	93.77	9716
85.0	9.873	94.45	93.96	127.4	36.49	28.99	11.93	9.208	80- 85	46.23	9762
90.0	0	31.59	53.79	60.51	0.799	0.581	4.791	0	85- 90	20.00	9782
95.0	0	2.093	12.29	9.413	0	0	3.581	0	90- 95	6.004	9788
100.0	0	0	0	0	0	0	2.250	0	95-100	0.477	9788
105.0	0	0	0	0	0	0	0.315	0	100-105	0.083	9788
110.0	0	0	0	0	0	0	0	0	105-110	0.001	9788
115.0	0	0	0	0	0	2.069	0	1.766	110-115	0.131	9789
120.0	0	0	0	0	0	4.368	4.791	3.884	115-120	0.600	9789
125.0	0	0	0	0	0	0	0	0	120-125	0.084	9789
130.0	0	0	0	0	0	0	0	0	125-130	0	9789
135.0	0	0	0	0	0	0	0	0	130-135	0	9789
140.0	0	0	0	0	0	0	0	0	135-140	0	9789
145.0	0	0	0	0	0	0	0	0	140-145	0	9789
150.0	0	0	0	0	0	0	0	0	145-150	0	9789
155.0	0	0	0	0	0	0	0	0	150-155	0	9789
160.0	0	0	0	0	0	0	0	0	155-160	0	9789
165.0	0	0	0	0	0	0	0	0	160-165	0	9789
170.0	0	0	0	0	0	0	0	0	165-170	0	9789
175.0	0	0	0	0	0	0	0	0	170-175	0	9789
180.0	0	0	0	0	0	0	0	0	175-180	0	9789
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月13日

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

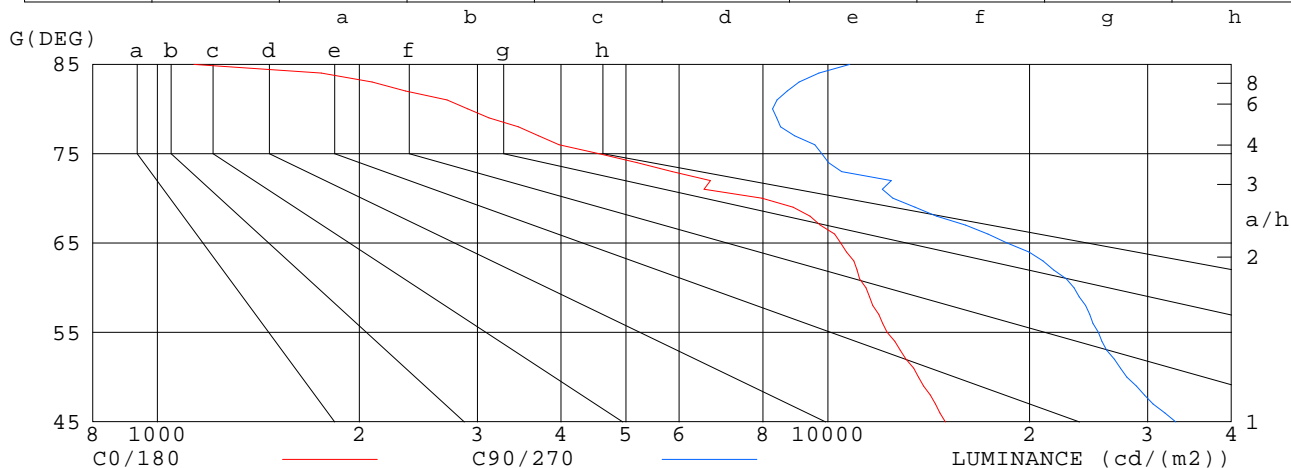
## LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: DS25°70W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	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	1133	10782
80	2903	8268
75	4556	9797
70	7973	12508
65	10452	18526
60	11400	23294
55	12258	25337
50	13651	27936
45	14976	33044

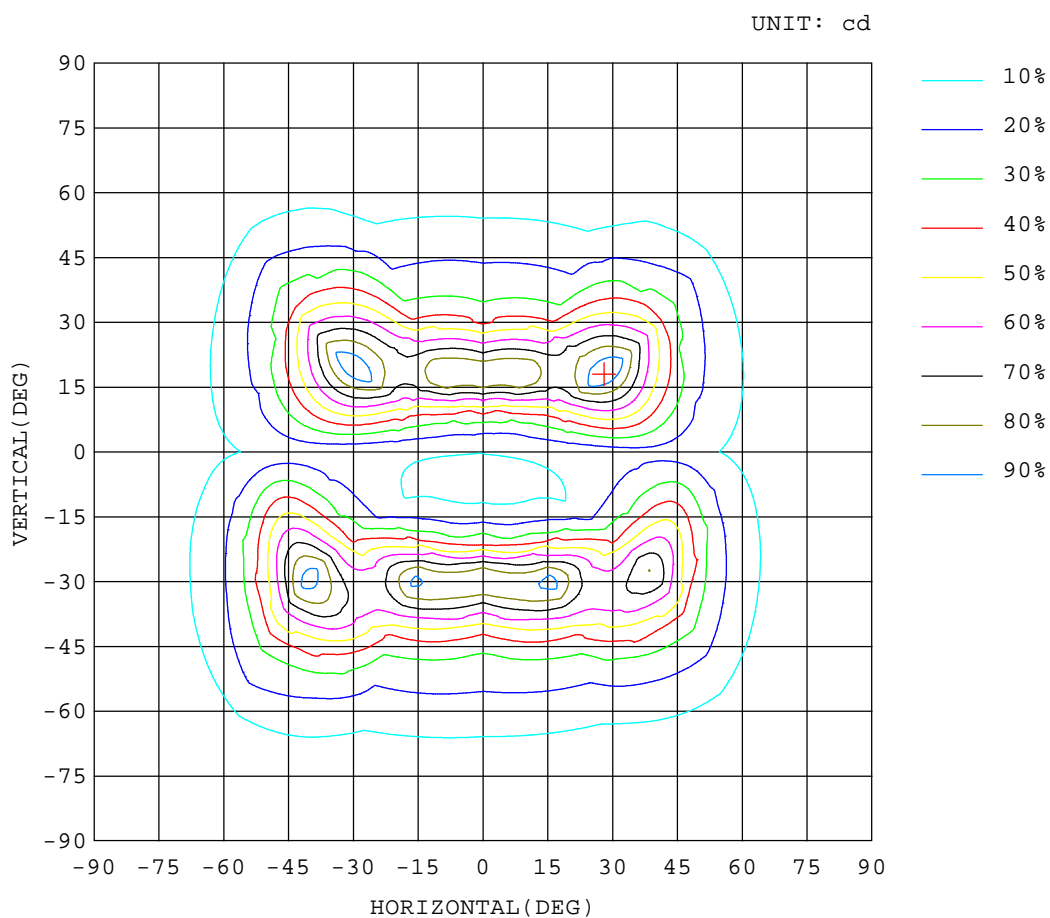
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月13日

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: DS25°70W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:



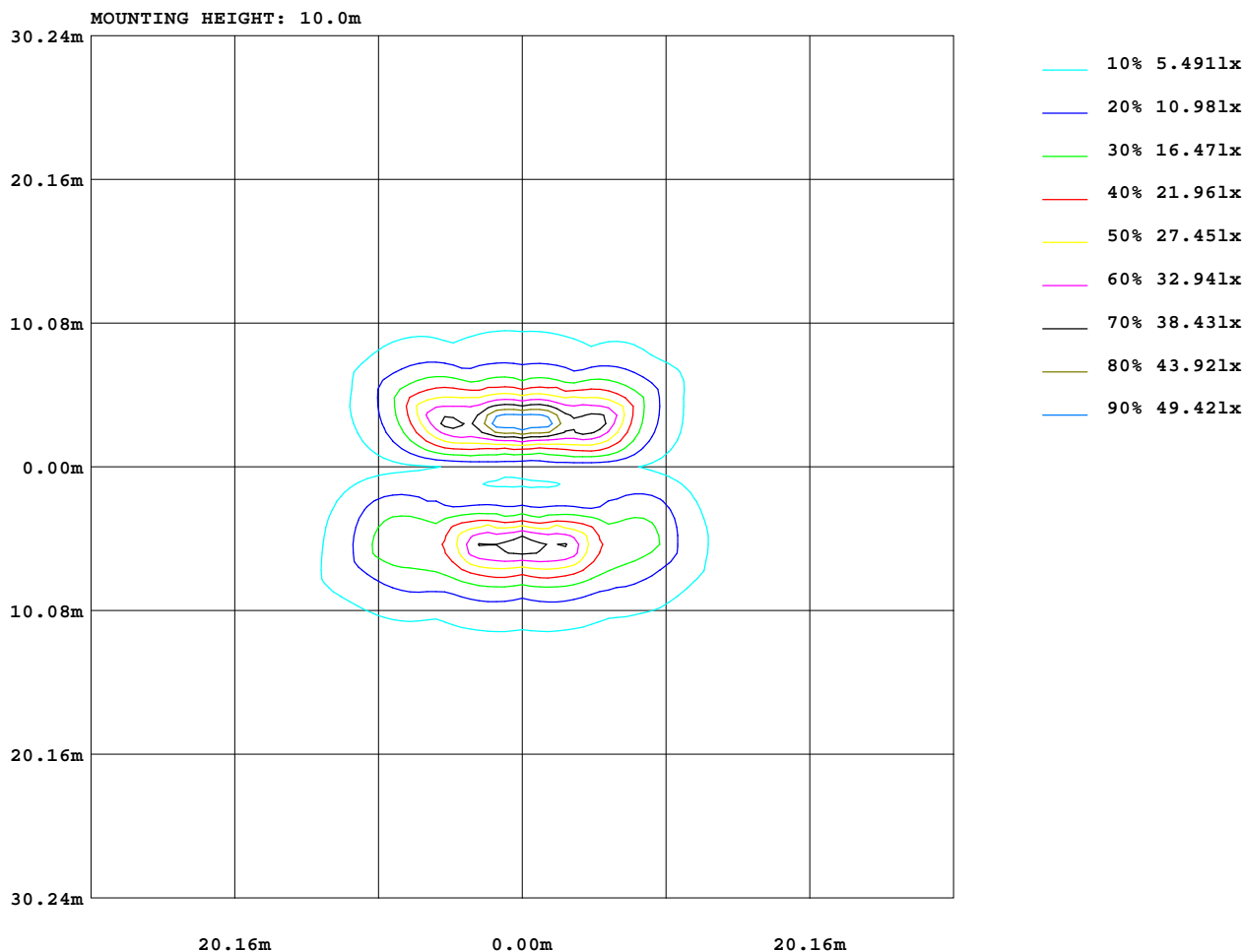
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月13日

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: DS25°70W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月13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: DS25°70W									TYPE:						WEIGHT:		
SPECIFICATION:									DIMENSION: 578*188mm						SERIAL No.:		

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.01	0.07	0.20	0.35	0.42	0.43	0.47	0.60	0.66	0.61	0.48	0.31	0.20	0.14	0.08	0.02	0.00	0.00	5.05	0.00		
90																						
80																						
70																						
60																						
50																						
40																						
30																						

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019年08月13日

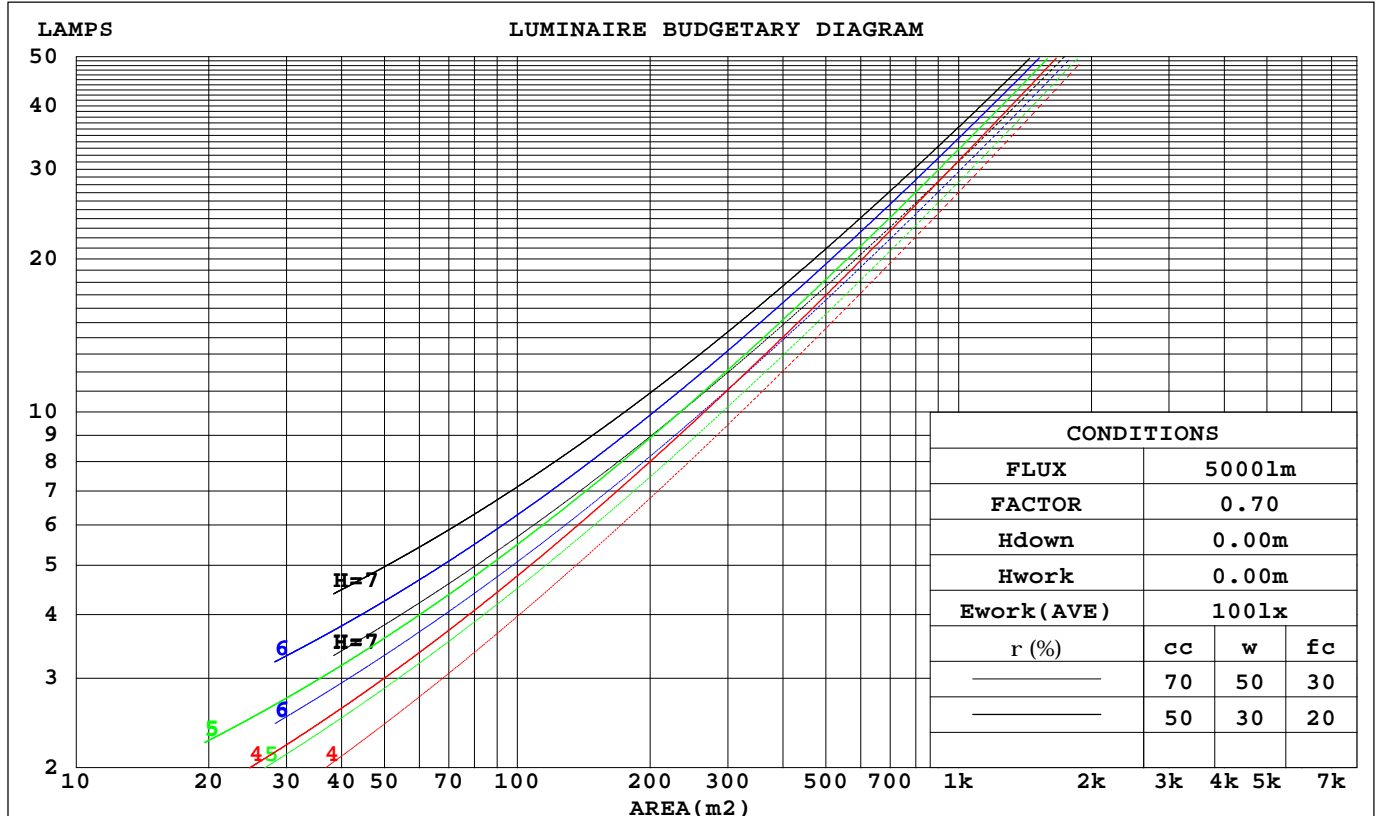
Test Set: 8.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:11.000 m  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: DS25°70W								TYPE:				WEIGHT:			
SPECIFICATION:								DIMENSION: 578*188mm				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	1.19	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	.00
1.0	1.06	1.02	.99	1.04	1.00	.97	.99	.96	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.87	.82	.91	.85	.81	.88	.83	.79	.85	.80	.77	.82	.78	.75	.73
3.0	.82	.74	.68	.81	.73	.68	.78	.71	.66	.75	.70	.65	.72	.68	.64	.62
4.0	.73	.64	.58	.71	.63	.57	.69	.62	.57	.67	.61	.56	.64	.59	.55	.53
5.0	.65	.56	.49	.64	.55	.49	.61	.54	.49	.59	.53	.48	.58	.52	.48	.45
6.0	.58	.49	.43	.57	.49	.42	.55	.48	.42	.53	.47	.42	.52	.46	.41	.39
7.0	.52	.43	.37	.51	.43	.37	.50	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.47	.38	.33	.46	.38	.32	.45	.38	.32	.44	.37	.32	.42	.36	.32	.30
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.29	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.38	.31	.25	.37	.30	.25	.36	.30	.25	.35	.29	.25	.23



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月13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: DS25°70W						TYPE:			WEIGHT:		
SPECIFICATION:						DIMENSION: 578*188mm			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	.273	.155	.049	.266	.152	.048	.253	.145	.046	.241	.139	.045	.230	.133	.043															
2.0	.266	.146	.045	.260	.143	.044	.248	.138	.043	.238	.133	.042	.228	.129	.041															
3.0	.252	.134	.040	.247	.132	.040	.237	.128	.039	.227	.125	.038	.219	.121	.037															
4.0	.238	.123	.036	.233	.122	.036	.224	.119	.035	.215	.116	.035	.208	.113	.034															
5.0	.223	.114	.033	.219	.112	.033	.211	.110	.032	.203	.107	.032	.196	.105	.031															
6.0	.209	.105	.030	.206	.104	.030	.198	.102	.030	.192	.100	.029	.185	.098	.029															
7.0	.197	.097	.028	.193	.096	.027	.187	.094	.027	.181	.093	.027	.175	.091	.027															
8.0	.185	.090	.025	.182	.090	.025	.176	.088	.025	.171	.086	.025	.166	.085	.025															
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.162	.081	.023	.157	.080	.023															
10.0	.165	.079	.022	.162	.078	.022	.158	.077	.022	.153	.076	.022	.149	.075	.021															

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	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.157	.138	.153	.135	.119	.104	.093	.082	.060	.054	.048	.019	.017	.015	
2.0	.169	.133	.102	.145	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.162	.115	.077	.139	.099	.067	.095	.069	.047	.055	.040	.028	.018	.013	.009	
4.0	.155	.101	.061	.133	.088	.053	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.148	.091	.049	.127	.079	.042	.087	.055	.030	.051	.032	.018	.016	.011	.006	
6.0	.141	.083	.040	.122	.072	.035	.084	.050	.025	.049	.029	.015	.016	.010	.005	
7.0	.135	.076	.034	.116	.066	.030	.080	.046	.021	.047	.027	.013	.015	.009	.004	
8.0	.129	.070	.029	.111	.061	.026	.077	.043	.018	.045	.025	.011	.014	.008	.004	
9.0	.124	.065	.026	.107	.057	.022	.074	.040	.016	.043	.023	.010	.014	.008	.003	
10.0	.118	.061	.023	.102	.053	.020	.071	.037	.014	.041	.022	.008	.013	.007	.003	

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019年08月13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: DS25°70W					TYPE:			WEIGHT:			
SPECIFICATION:					DIMENSION: 578*188mm			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	2H	26.4	27.9	26.6	28.1	28.3	25.4	26.8	25.6	27.0	27.2
	3H	26.6	28.0	26.9	28.2	28.5	25.7	27.0	25.9	27.2	27.5
	4H	26.6	27.9	26.9	28.1	28.4	25.7	27.0	26.0	27.2	27.5
	6H	26.5	27.7	26.9	28.0	28.3	25.7	26.9	26.0	27.2	27.5
	8H	26.5	27.6	26.8	27.9	28.2	25.7	26.9	26.0	27.1	27.4
	12H	26.4	27.5	26.8	27.8	28.1	25.7	26.8	26.1	27.1	27.4
4H	2H	26.7	28.0	27.0	28.2	28.5	25.9	27.2	26.2	27.4	27.7
	3H	27.2	28.3	27.6	28.6	28.9	26.3	27.4	26.6	27.7	28.0
	4H	27.2	28.2	27.6	28.6	28.9	26.3	27.3	26.7	27.7	28.0
	6H	27.2	28.1	27.6	28.4	28.8	26.4	27.3	26.8	27.6	28.0
	8H	27.2	28.0	27.6	28.3	28.7	26.5	27.3	26.9	27.6	28.0
	12H	27.1	27.9	27.5	28.2	28.7	26.5	27.2	26.9	27.6	28.0
8H	4H	27.2	28.0	27.6	28.4	28.8	26.4	27.2	26.8	27.6	28.0
	6H	27.2	27.9	27.7	28.3	28.7	26.5	27.2	27.0	27.6	28.0
	8H	27.2	27.8	27.7	28.2	28.7	26.6	27.2	27.1	27.7	28.1
	12H	27.2	27.7	27.7	28.1	28.6	26.8	27.3	27.2	27.7	28.2
12H	4H	27.2	27.9	27.6	28.3	28.7	26.4	27.1	26.8	27.5	27.9
	6H	27.2	27.8	27.7	28.2	28.7	26.5	27.1	27.0	27.6	28.0
	8H	27.2	27.7	27.7	28.2	28.6	26.7	27.2	27.1	27.6	28.1
Variations with the observer position at spacings:											
S = 1.0H		+ 1.2 / - 0.9				+ 1.1 / - 1.4					
1.5H		+ 2.0 / - 4.0				+ 1.0 / - 1.2					
2.0H		+ 3.0 / - 5.6				+ 1.1 / - 1.2					

CIE Pub.117 Corrected 9789 lm Total Lamp Luminous Flux.(8log(F/F0) = 7.9)

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019年08月13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: DS25°70W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	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) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	41	58	47	40	57	47	40	34
0.80	70	59	52	69	58	51	67	57	51	44
1.00	79	69	62	78	68	62	76	69	61	54
1.25	86	77	70	85	76	70	82	75	69	62
1.50	91	82	76	90	82	76	87	80	74	68
2.00	98	90	85	96	89	84	93	87	82	75
2.50	101	94	89	99	93	88	96	91	86	79
3.00	104	98	94	102	97	92	98	94	90	82
4.00	108	103	99	106	101	97	101	98	95	86
5.00	110	106	102	108	104	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

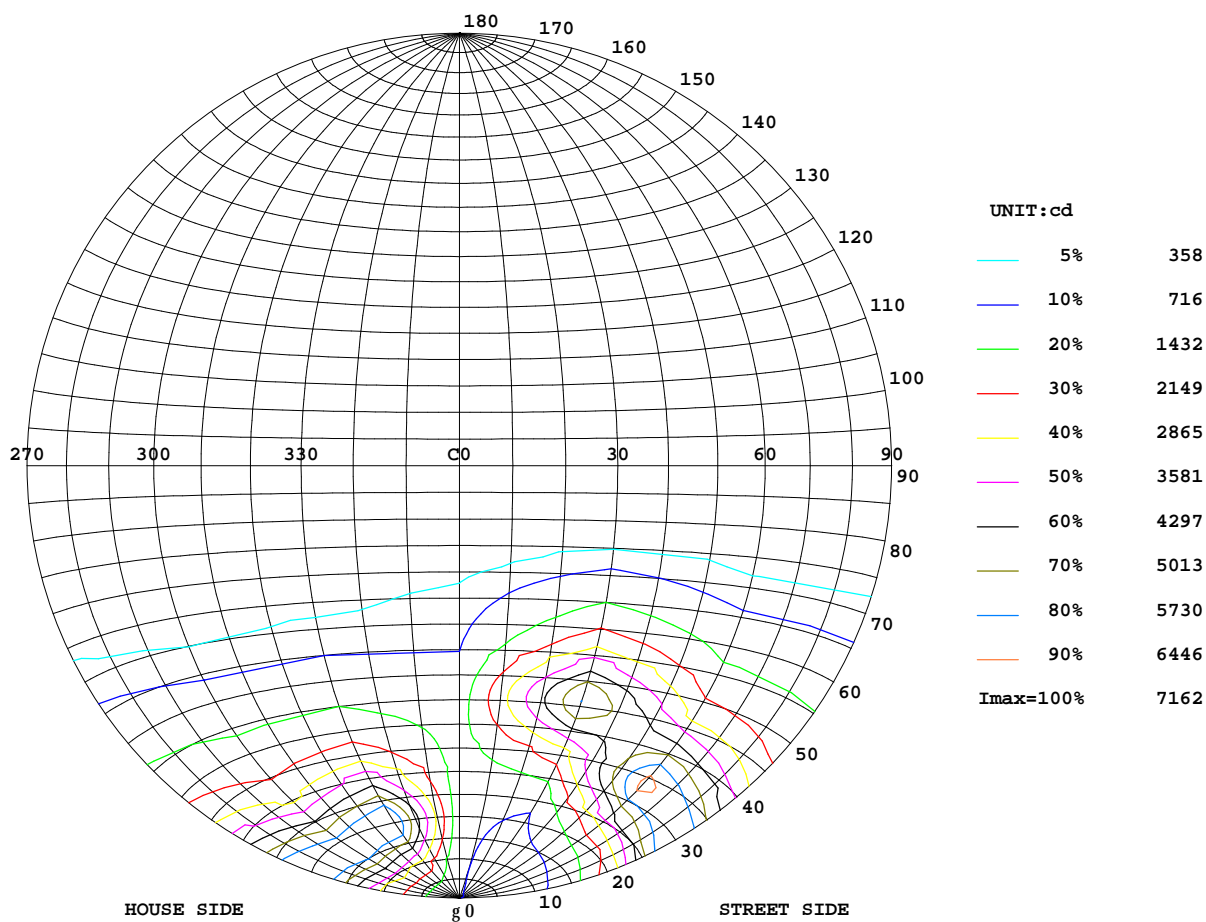
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2019年08月13日

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: DS25°70W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月13日

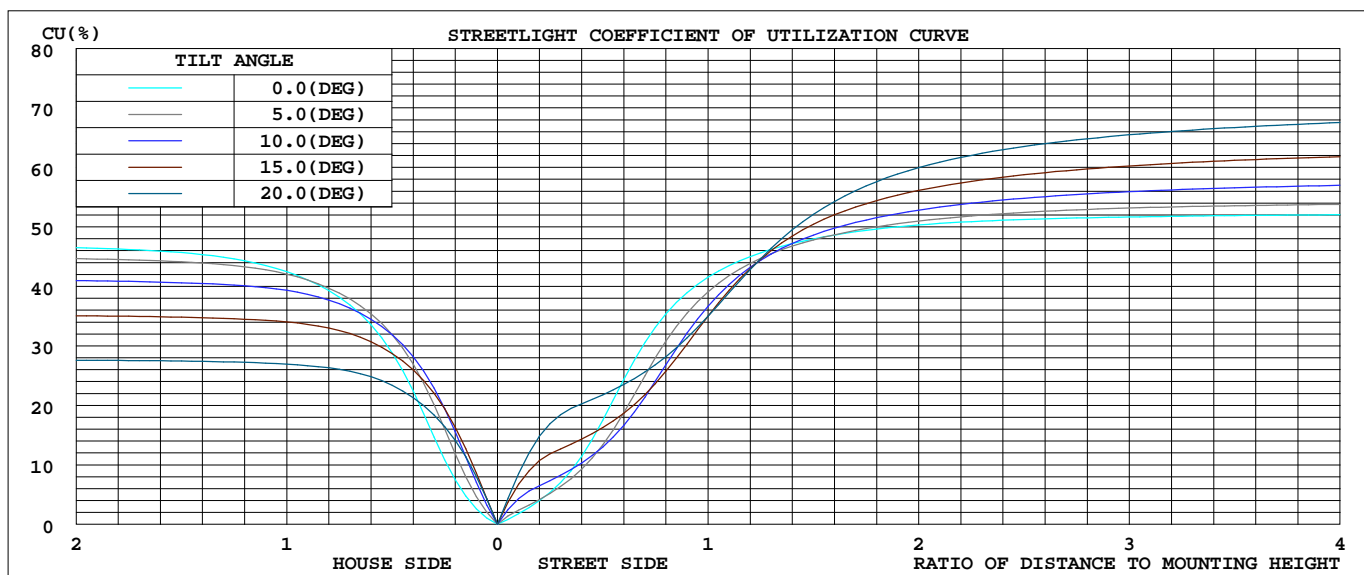
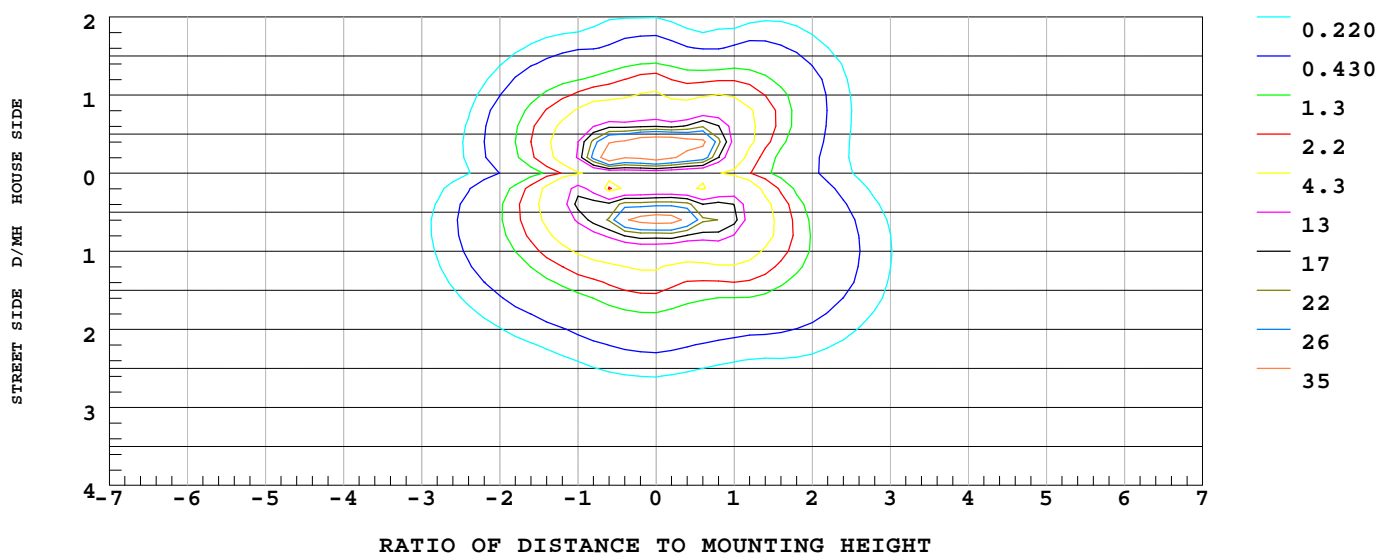
Test Set: 8.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:11.000 m  
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: DS25°70W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 7.72 lx



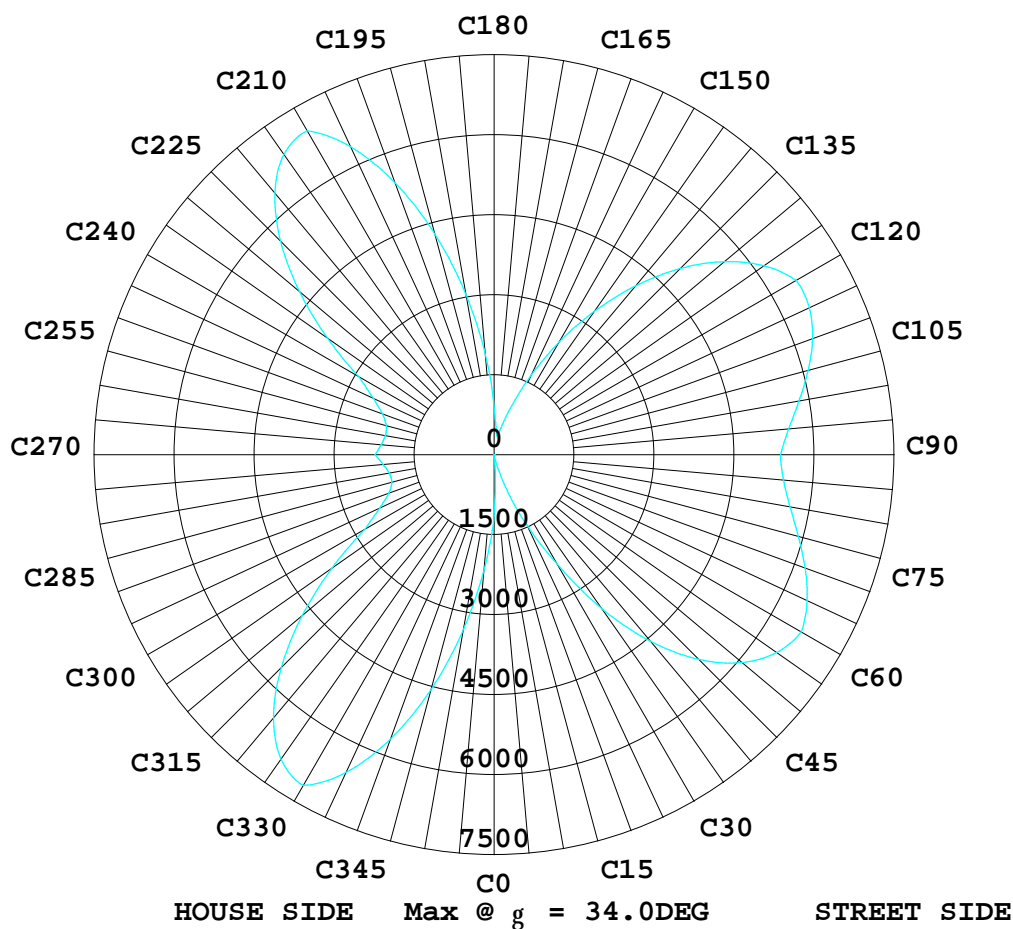
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月13日

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: DS25°70W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2019年08月13日

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