

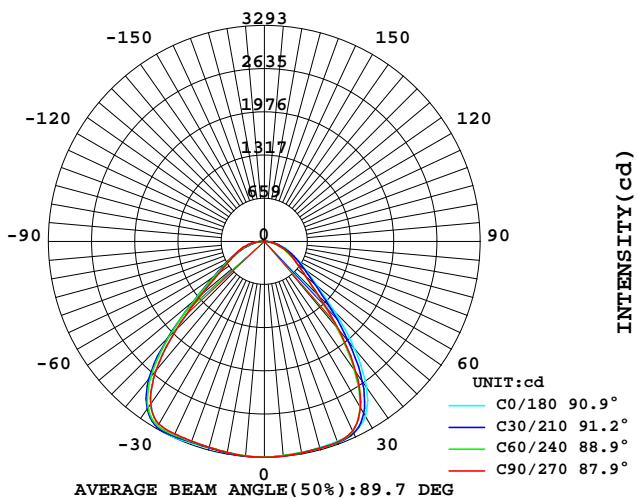
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

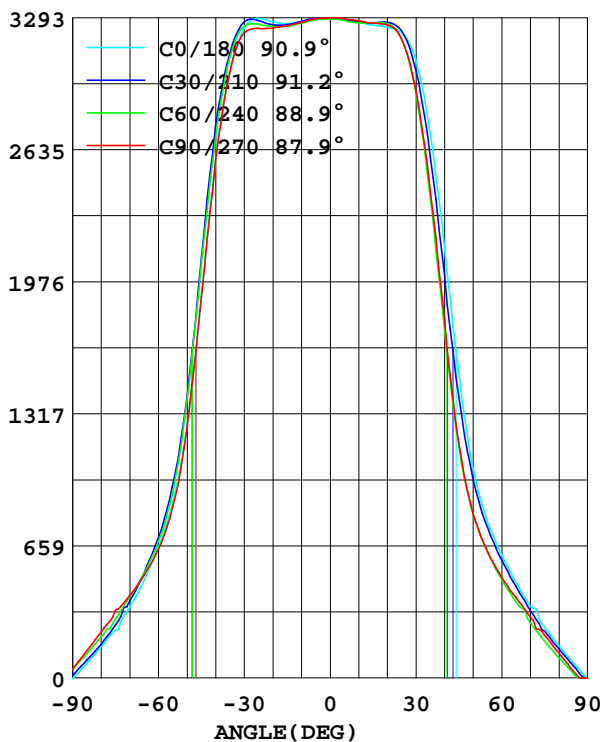
MANUFACTURER:		
Address:		
NAME: 50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:

DATA OF LAMP		I _{max} (cd)	3293	S/MH(C0/180)	1.34
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.34
NOMINAL POWER(W)	48	TOTAL FLUX(lm)	7298.5	Voltage(V)	220.0
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	150.8	Current(A)	0.230
NOMINAL FLUX(lm)	7298.5	h up(%)	0.0	Power(W)	48.40
LAMPS QUANTITY	1	h down(%)	100.0	Power Factor(PF)	0.955
TEST VOLTAGE(V)	220.0	Effective Flux(lm)	6997.1	EEI	0.094

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



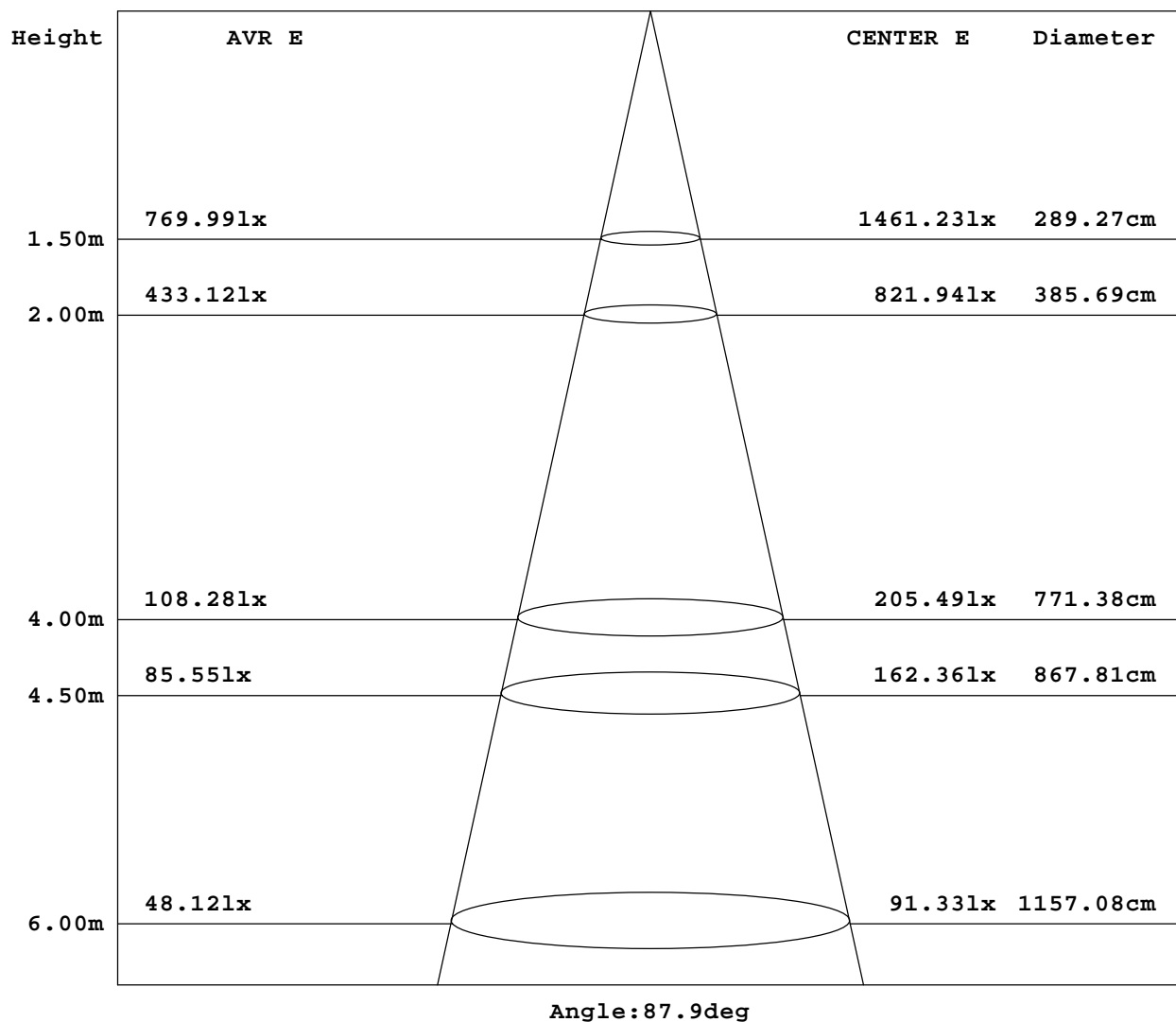
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2020年05月09日

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: 50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020年05月09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: 50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	3286	3286	3287	3281	3281	3281	3287	3283	0- 5	78.56	78.56
10.0	3273	3270	3270	3268	3272	3270	3277	3271	5- 10	234.4	313.0
15.0	3263	3255	3252	3248	3257	3267	3267	3260	10- 15	387.1	700.1
20.0	3273	3253	3242	3242	3245	3267	3257	3269	15- 20	536.8	1237
25.0	3290	3269	3239	3247	3217	3207	3188	3261	20- 25	682.2	1919
30.0	3243	3262	3217	3195	3083	2976	2930	3123	25- 30	809.2	2728
35.0	3020	3105	3020	2942	2716	2498	2429	2765	30- 35	880.5	3609
40.0	2574	2719	2579	2448	2138	1865	1786	2177	35- 40	856.3	4465
45.0	1905	2082	1902	1800	1526	1283	1173	1498	40- 45	727.7	5193
50.0	1252	1392	1246	1244	1045	901.9	818.0	1005	45- 50	551.9	5745
55.0	868.0	939.8	851.0	872.9	777.3	688.1	631.9	732.3	50- 55	411.0	6156
60.0	656.0	692.6	643.5	666.7	616.2	540.7	501.4	554.3	55- 60	322.4	6479
65.0	485.8	522.8	511.2	520.6	475.7	419.3	401.1	412.6	60- 65	260.7	6739
70.0	351.2	393.0	411.9	402.4	356.7	305.2	304.2	290.8	65- 70	207.3	6947
75.0	238.9	280.6	341.1	292.3	255.2	209.1	213.5	196.6	70- 75	156.1	7103
80.0	155.7	187.4	228.5	195.1	161.1	122.9	124.5	113.6	75- 80	108.4	7211
85.0	71.09	104.5	136.9	109.5	75.21	41.75	34.79	37.09	80- 85	63.52	7275
90.0	0	27.72	44.60	28.50	0	0	0	0	85- 90	21.99	7297
95.0	0	0	0	0	0	0	0	0	90- 95	1.651	7299
100.0	0	0	0	0	0	0	0	0	95-100	0	7299
105.0	0	0	0	0	0	0	0	0	100-105	0	7299
110.0	0	0	0	0	0	0	0	0	105-110	0	7299
115.0	0	0	0	0	0	0	0	0	110-115	0	7299
120.0	0	0	0	0	0	0	0	0	115-120	0	7299
125.0	0	0	0	0	0	0	0	0	120-125	0	7299
130.0	0	0	0	0	0	0	0	0	125-130	0	7299
135.0	0	0	0	0	0	0	0	0	130-135	0	7299
140.0	0	0	0	0	0	0	0	0	135-140	0	7299
145.0	0	0	0	0	0	0	0	0	140-145	0	7299
150.0	0	0	0	0	0	0	0	0	145-150	0	7299
155.0	0	0	0	0	0	0	0	0	150-155	0	7299
160.0	0	0	0	0	0	0	0	0	155-160	0	7299
165.0	0	0	0	0	0	0	0	0	160-165	0	7299
170.0	0	0	0	0	0	0	0	0	165-170	0	7299
175.0	0	0	0	0	0	0	0	0	170-175	0	7299
180.0	0	0	0	0	0	0	0	0	175-180	0	7299
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月09日

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

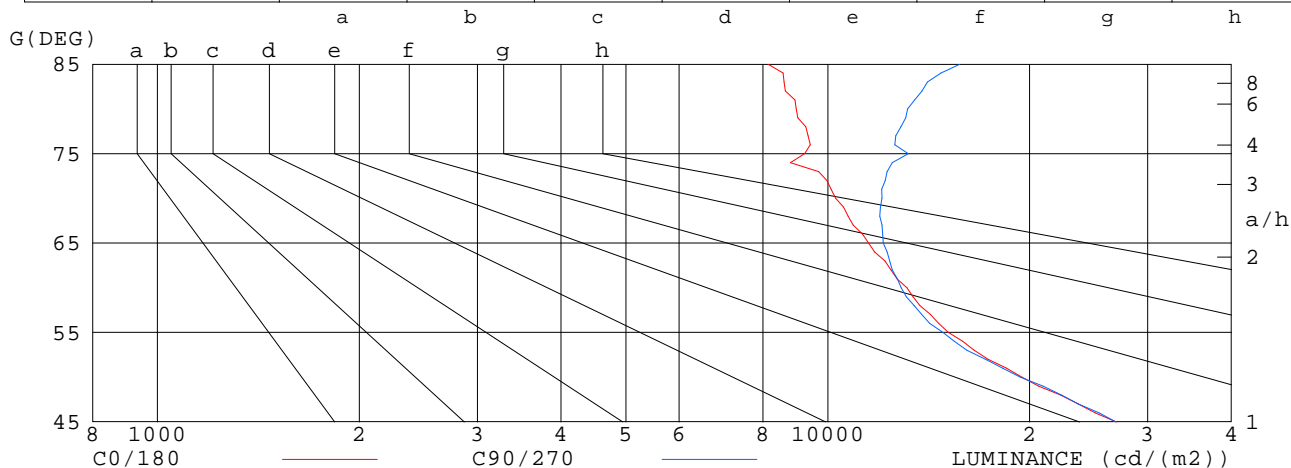
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	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	8158	15710
80	8972	13160
75	9231	13182
70	10269	12045
65	11497	12098
60	13120	12871
55	15133	14838
50	19484	19381
45	26939	26901

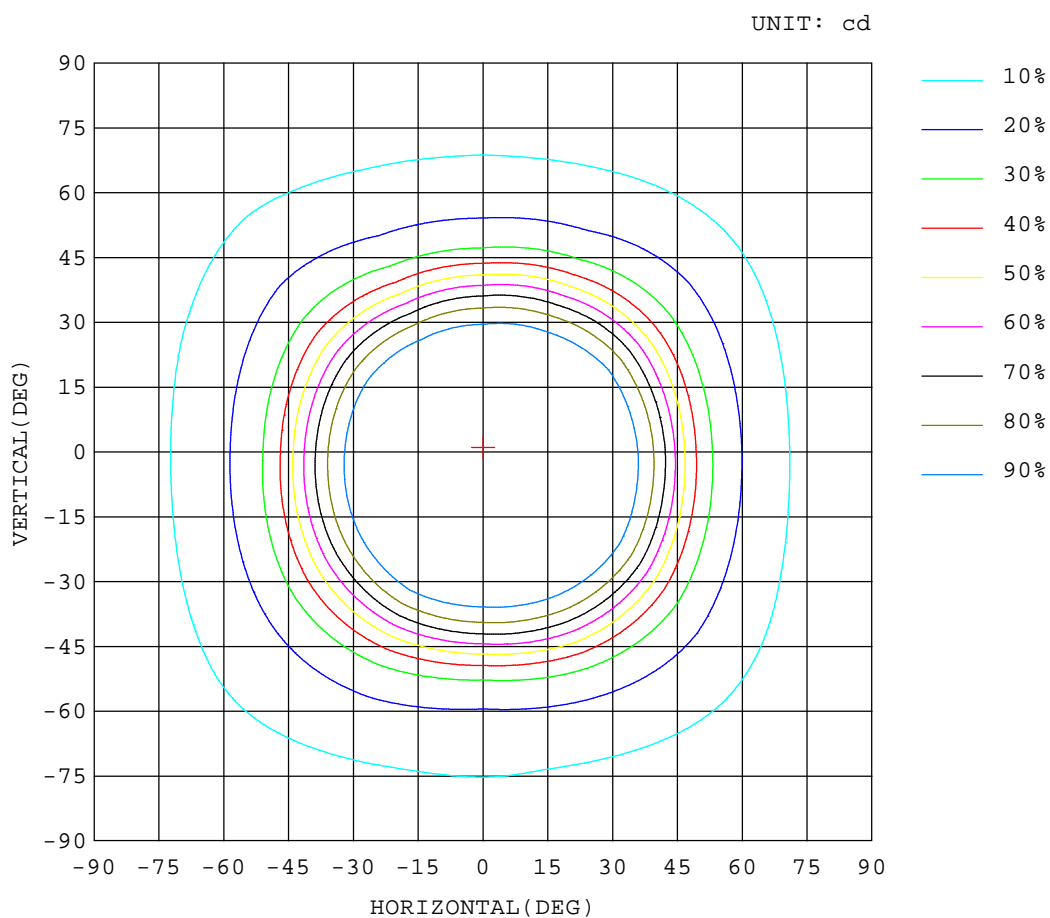
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2020年05月09日

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: 50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:



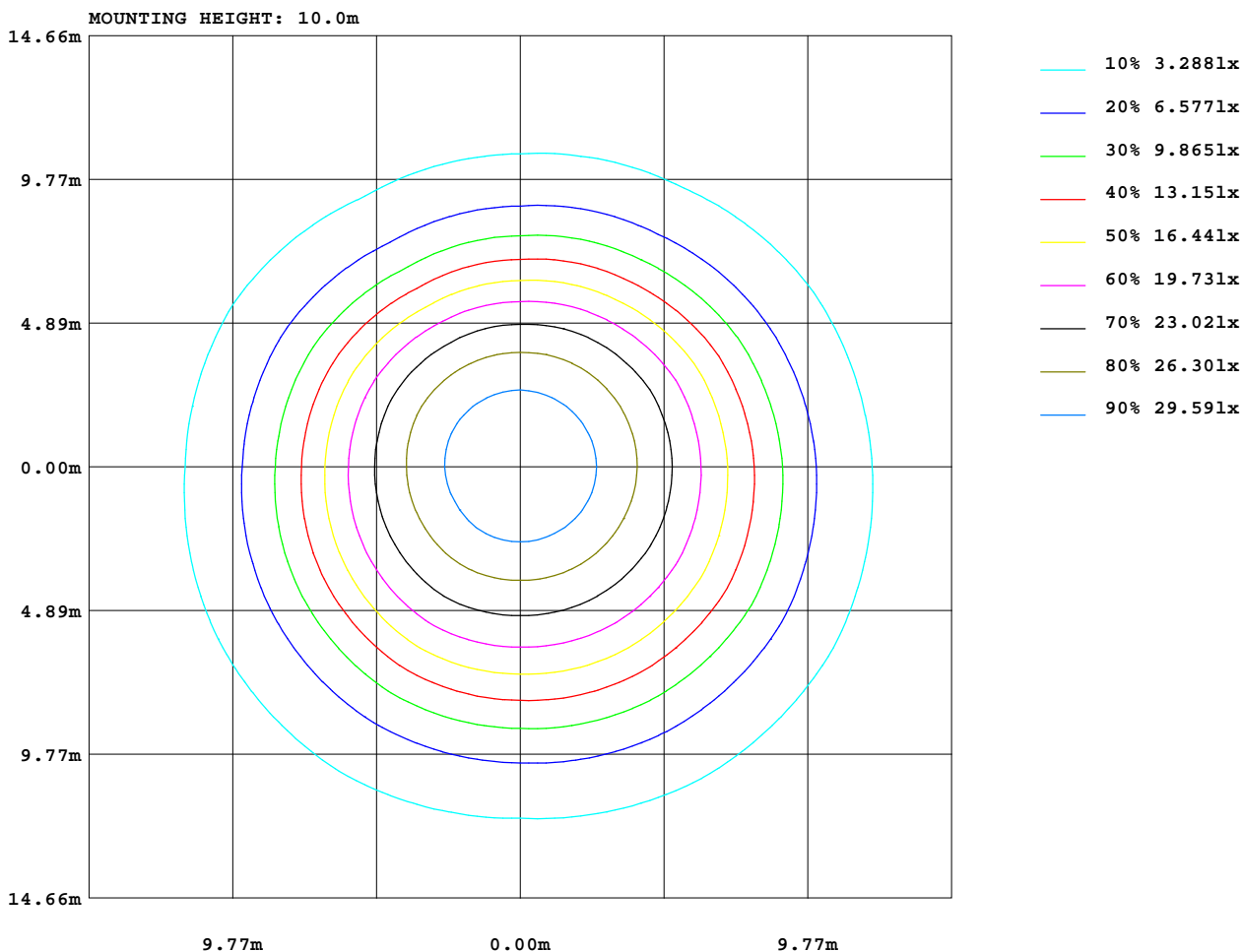
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2020年05月09日

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: 50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2020年05月09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: 50W										TYPE:					WEIGHT:				
SPECIFICATION:										DIMENSION: 1438*65mm					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.01	0.08	0.23	0.42	0.57	0.64	0.77	1.03	1.23	1.23	1.02	0.76	0.60	0.50	0.35	0.20	0.08	0.01	9.76	0.00		
90																						
80																						
70																						
60																						
50																						
40																						
30																						
														</								

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月09日

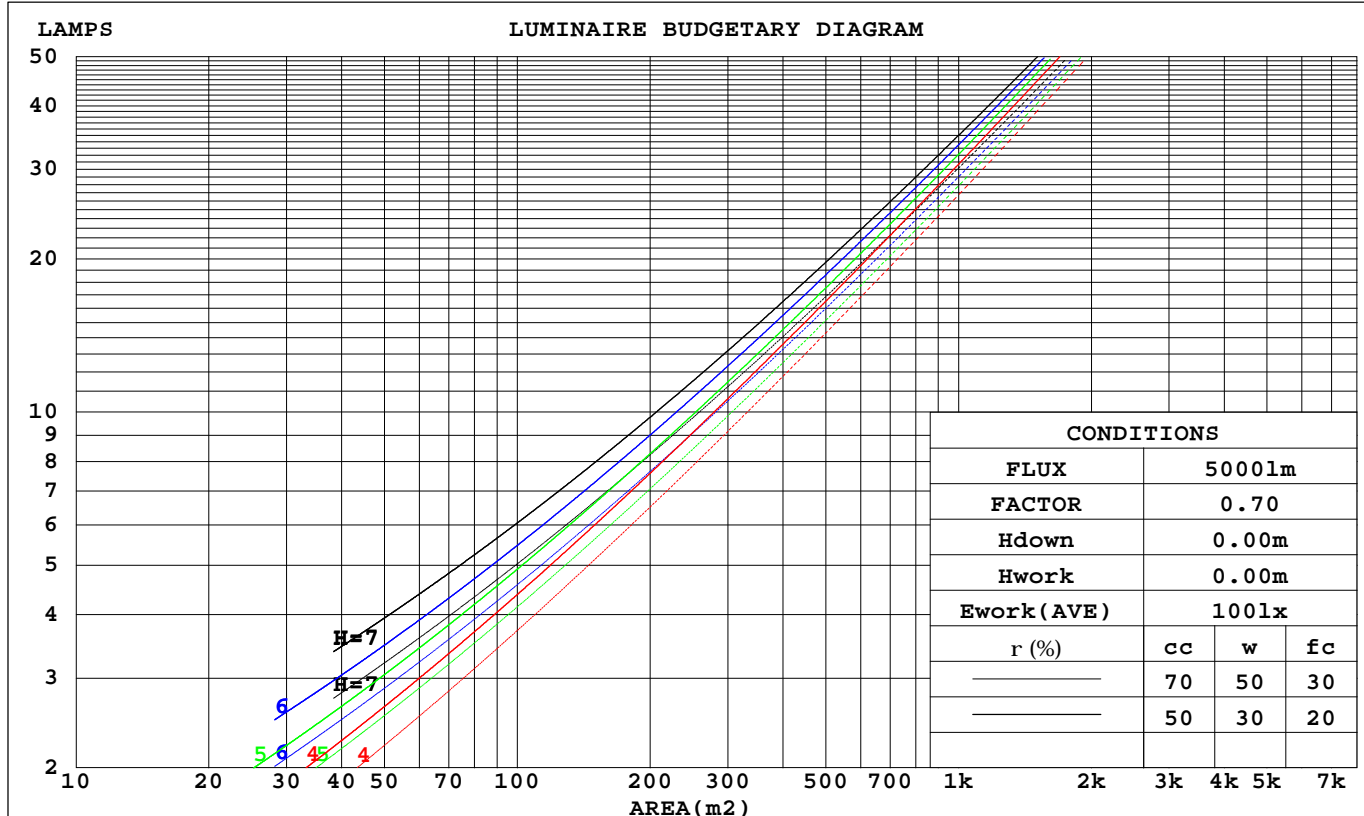
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: 50W								TYPE:				WEIGHT:			
SPECIFICATION:								DIMENSION: 1438*65mm				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															



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2020年05月09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: 50W						TYPE:				WEIGHT:	
SPECIFICATION:						DIMENSION: 1438*65mm				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	.259	.147	.047	.252	.144	.046	.239	.137	.044	.227	.131	.042	.216	.125	.040															
2.0	.247	.135	.041	.241	.133	.041	.229	.128	.040	.219	.123	.038	.209	.118	.037															
3.0	.232	.123	.037	.226	.121	.037	.217	.117	.036	.207	.114	.035	.199	.110	.034															
4.0	.217	.113	.033	.212	.111	.033	.204	.108	.032	.196	.105	.032	.188	.102	.031															
5.0	.203	.104	.030	.199	.102	.030	.192	.100	.029	.184	.097	.029	.178	.095	.029															
6.0	.191	.096	.027	.187	.095	.027	.180	.092	.027	.174	.090	.027	.168	.088	.026															
7.0	.180	.089	.025	.176	.088	.025	.170	.086	.025	.164	.084	.025	.159	.083	.024															
8.0	.169	.083	.023	.166	.082	.023	.161	.080	.023	.156	.079	.023	.151	.077	.023															
9.0	.160	.077	.022	.157	.077	.022	.153	.075	.021	.148	.074	.021	.143	.073	.021															
10.0	.152	.073	.020	.149	.072	.020	.145	.071	.020	.141	.070	.020	.137	.069	.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	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.177	.157	.139	.151	.135	.119	.104	.093	.082	.060	.054	.048	.019	.017	.016	
2.0	.166	.132	.104	.143	.114	.090	.098	.079	.062	.056	.046	.037	.018	.015	.012	
3.0	.157	.114	.080	.135	.099	.069	.093	.068	.049	.053	.040	.029	.017	.013	.009	
4.0	.149	.100	.063	.128	.087	.055	.088	.060	.039	.051	.035	.023	.016	.012	.008	
5.0	.142	.090	.051	.122	.078	.045	.084	.054	.032	.049	.032	.019	.016	.010	.006	
6.0	.135	.081	.043	.116	.070	.037	.080	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.128	.074	.036	.110	.064	.031	.076	.045	.022	.044	.027	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.073	.042	.019	.042	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.024	.070	.039	.017	.041	.023	.010	.013	.007	.003	
10.0	.112	.059	.024	.096	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月09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: 50W					TYPE:			WEIGHT:			
SPECIFICATION:					DIMENSION: 1438*65mm			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	22.5	23.8	22.7	24.0	24.2	22.4	23.7	22.7	23.9	24.1	
	3H	23.1	24.3	23.4	24.6	24.8	23.2	24.4	23.5	24.6	24.8
	4H	23.4	24.5	23.7	24.8	25.0	23.6	24.8	23.9	25.0	25.3
	6H	23.6	24.7	23.9	24.9	25.2	24.1	25.2	24.4	25.4	25.7
	8H	23.7	24.7	24.0	25.0	25.3	24.3	25.3	24.6	25.6	25.9
	12H	23.7	24.7	24.1	25.0	25.3	24.5	25.5	24.8	25.8	26.1
4H	2H	22.7	23.9	23.0	24.1	24.4	22.6	23.8	22.9	24.0	24.3
	3H	23.5	24.6	23.9	24.8	25.1	23.6	24.6	24.0	24.9	25.2
	4H	23.9	24.9	24.3	25.2	25.5	24.2	25.2	24.6	25.5	25.8
	6H	24.3	25.1	24.7	25.4	25.8	24.8	25.7	25.2	26.0	26.4
	8H	24.4	25.2	24.8	25.5	25.9	25.1	25.9	25.5	26.2	26.6
	12H	24.5	25.2	24.9	25.6	26.0	25.4	26.1	25.8	26.5	26.9
8H	4H	24.1	24.9	24.5	25.2	25.6	24.4	25.1	24.8	25.5	25.9
	6H	24.6	25.2	25.1	25.6	26.1	25.2	25.8	25.6	26.2	26.6
	8H	24.8	25.4	25.3	25.8	26.3	25.6	26.1	26.0	26.5	27.0
	12H	25.0	25.5	25.5	25.9	26.4	26.0	26.5	26.5	26.9	27.4
12H	4H	24.1	24.8	24.6	25.2	25.6	24.4	25.1	24.8	25.5	25.9
	6H	24.7	25.2	25.1	25.7	26.1	25.2	25.8	25.7	26.2	26.6
	8H	25.0	25.4	25.4	25.9	26.3	25.7	26.1	26.1	26.6	27.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.7 / - 0.8					+ 0.6 / - 0.6					
1.5H	+ 0.5 / - 0.7					+ 0.5 / - 0.5					
2.0H	+ 1.4 / - 0.8					+ 1.2 / - 0.7					

CIE Pub.117 Corrected 7299 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.9)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月09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: 50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	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) $k(RI) \times RCR = 5$									
$k = 0.60$	67	58	52	67	57	51	66	57	51	46
0.80	77	67	61	76	67	61	75	66	61	55
1.00	84	75	69	83	75	69	81	76	69	63
1.25	91	82	76	89	82	76	87	80	75	69
1.50	95	87	81	93	86	81	91	84	80	73
2.00	100	93	88	99	92	88	95	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	99	103	100	97	89
5.00	111	107	104	109	105	102	104	102	99	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

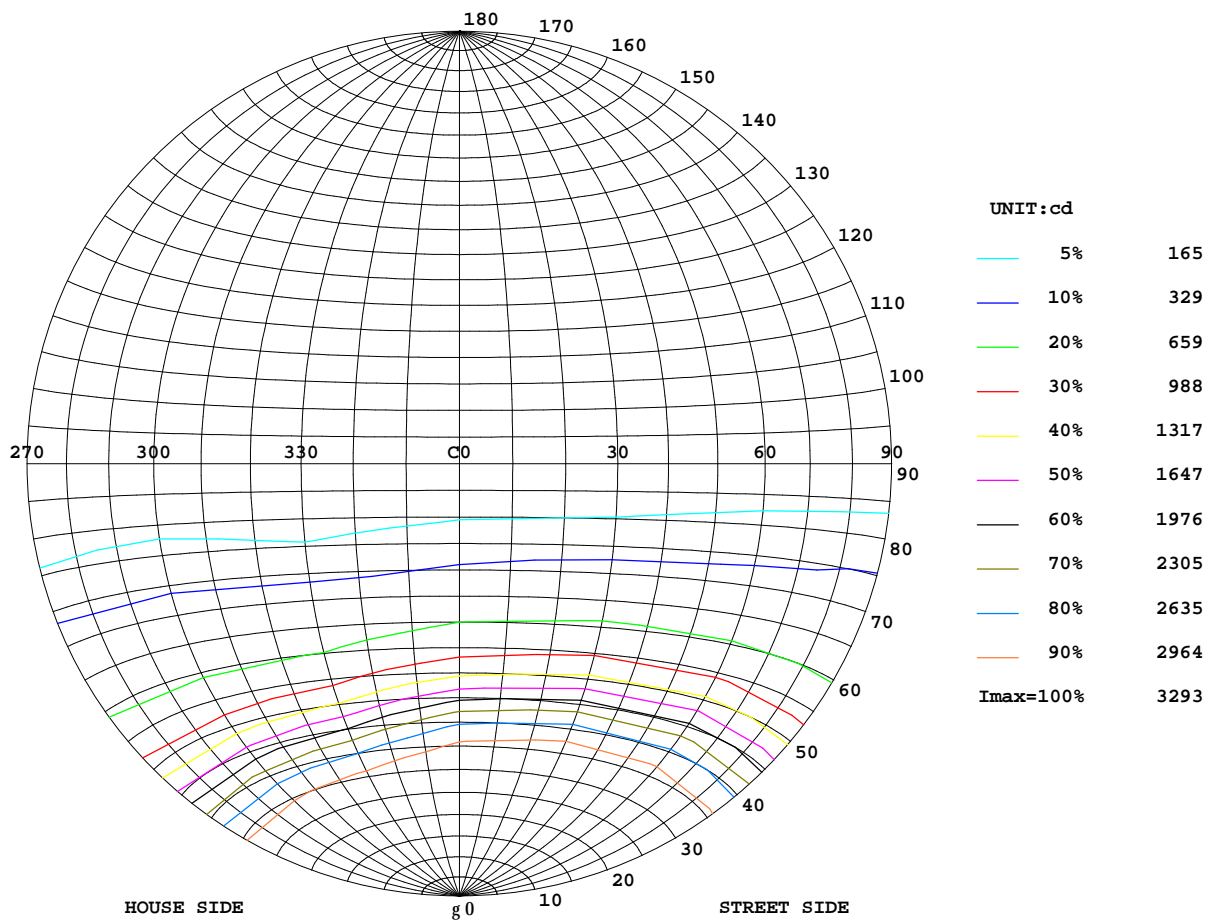
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 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月09日

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: 50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2020年05月09日

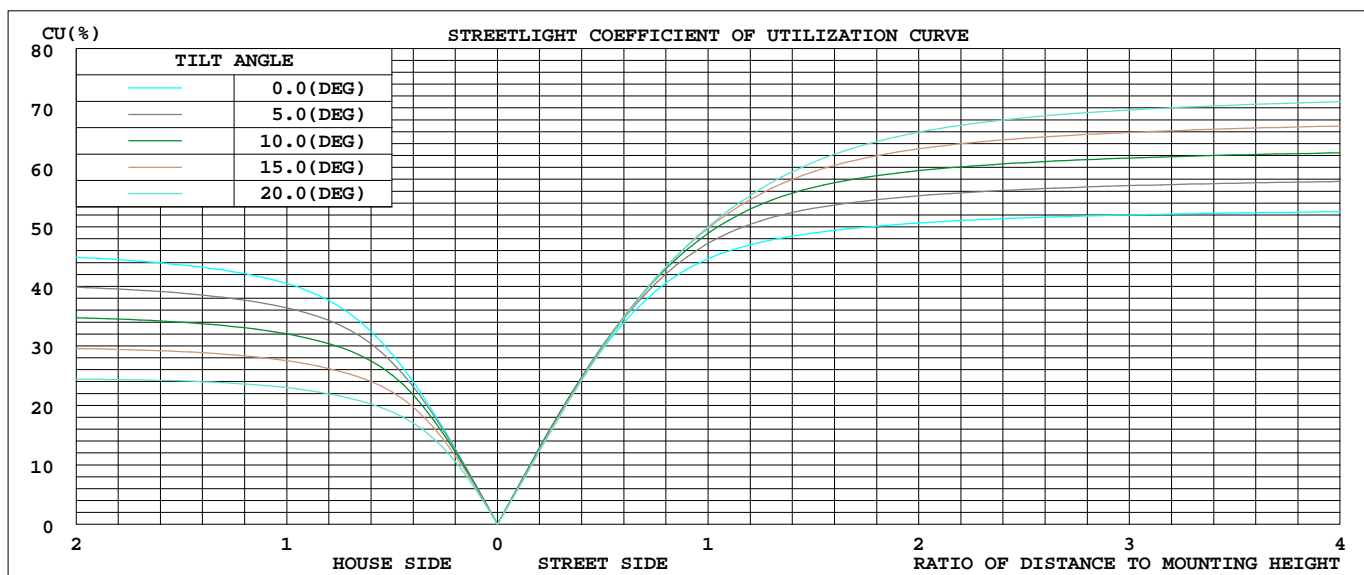
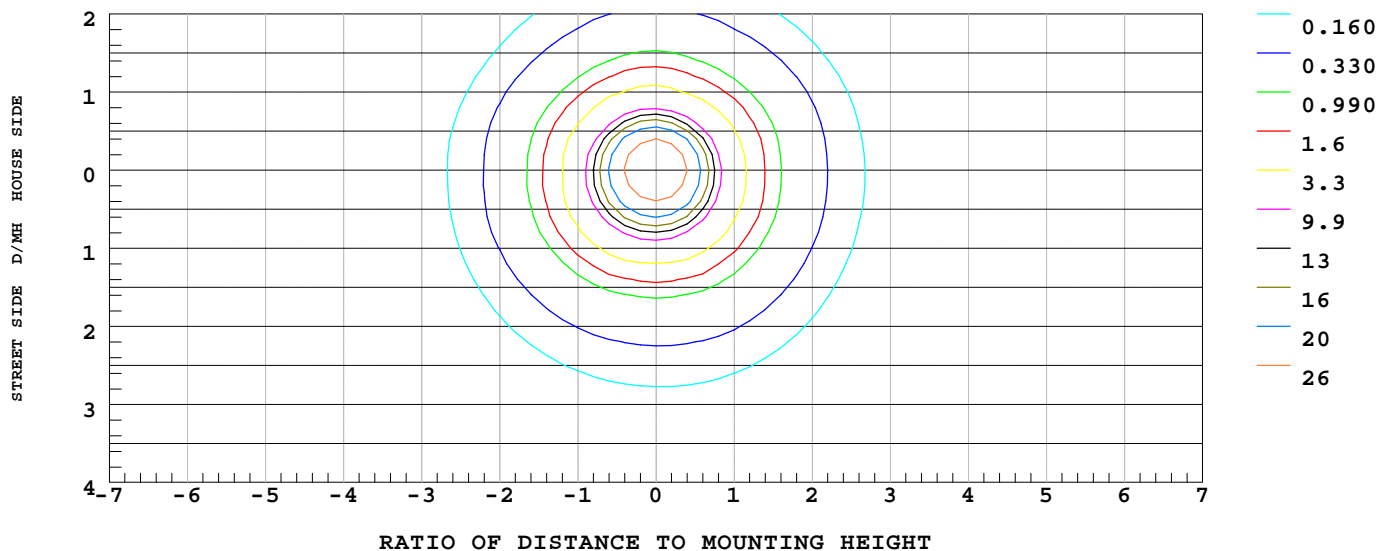
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 32.88 lx



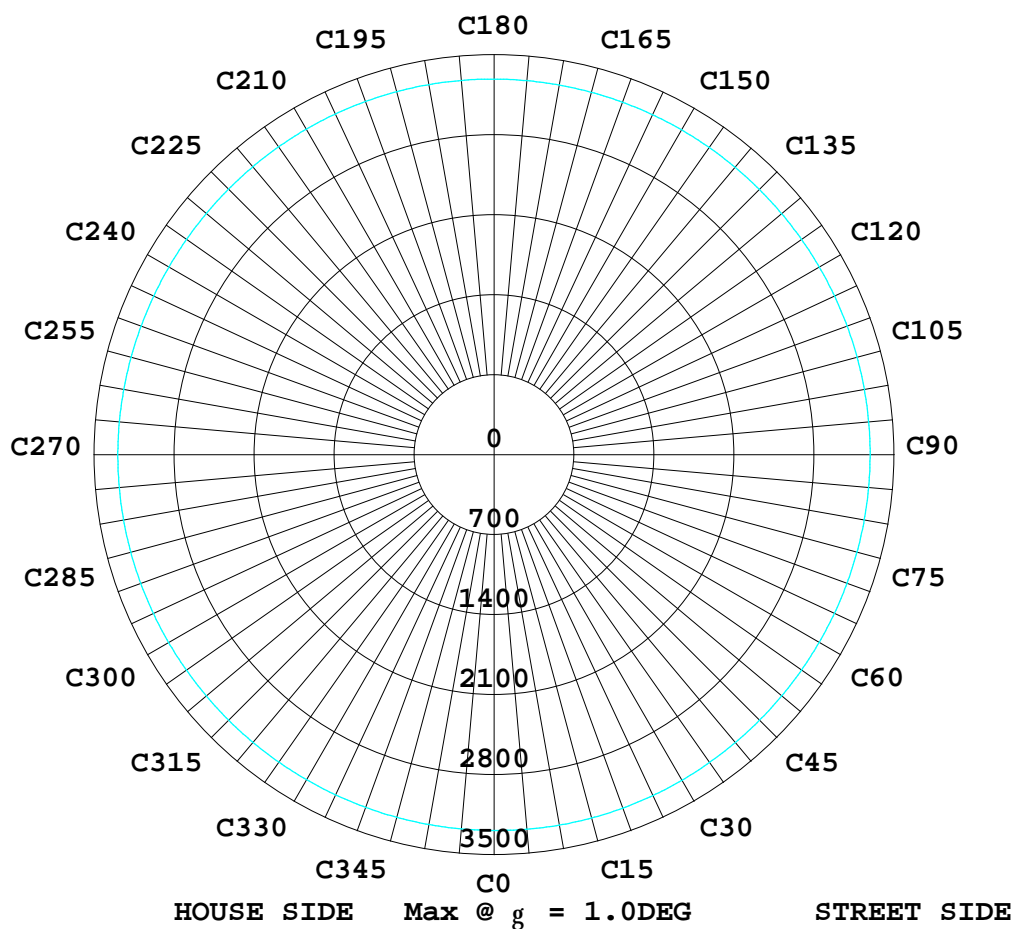
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2020年05月09日

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: 50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2020年05月09日

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