

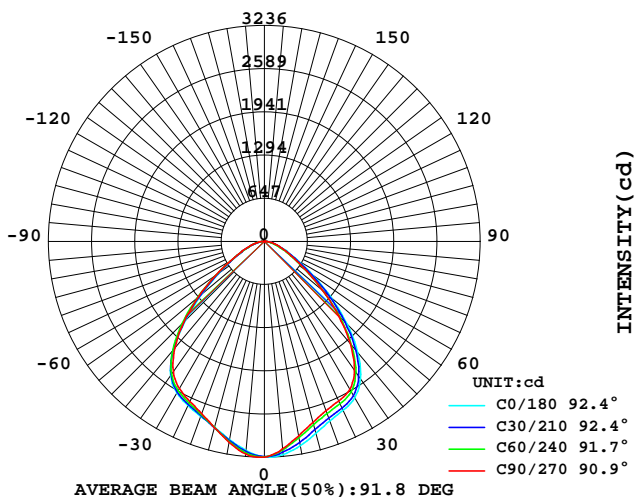
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

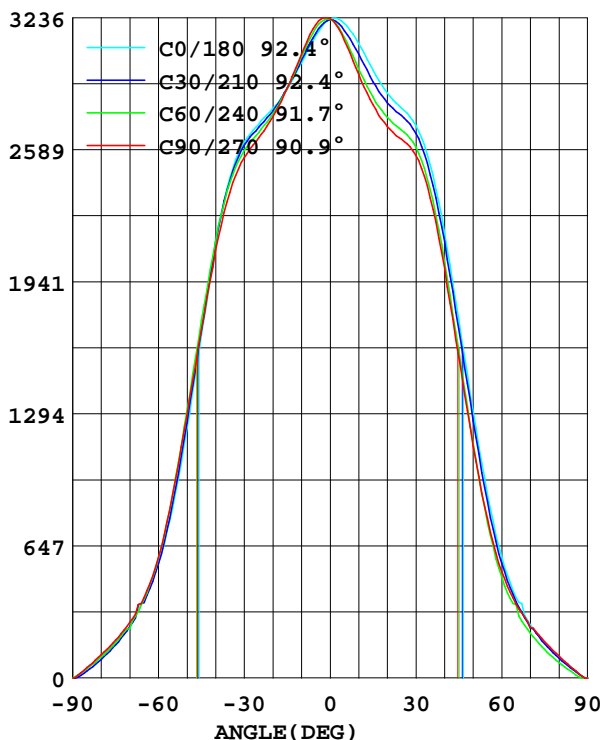
MANUFACTURER:		
Address:		
NAME: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:

DATA OF LAMP		I _{max} (cd)	3236	S/MH(C0/180)	1.22
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.19
NOMINAL POWER(W)	44	TOTAL FLUX(lm)	6533.3	Voltage(V)	218.6
RATED VOLTAGE(V)	218	EFFICIENCY(lm/W)	149.5	Current(A)	0.210
NOMINAL FLUX(lm)	6533.3	h up(%)	0.0	Power(W)	43.70
LAMPS QUANTITY	1	h down(%)	100.0	Power Factor(PF)	0.950
TEST VOLTAGE(V)	218.7	Effective Flux(lm)	6228.3	EEI	0.096

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



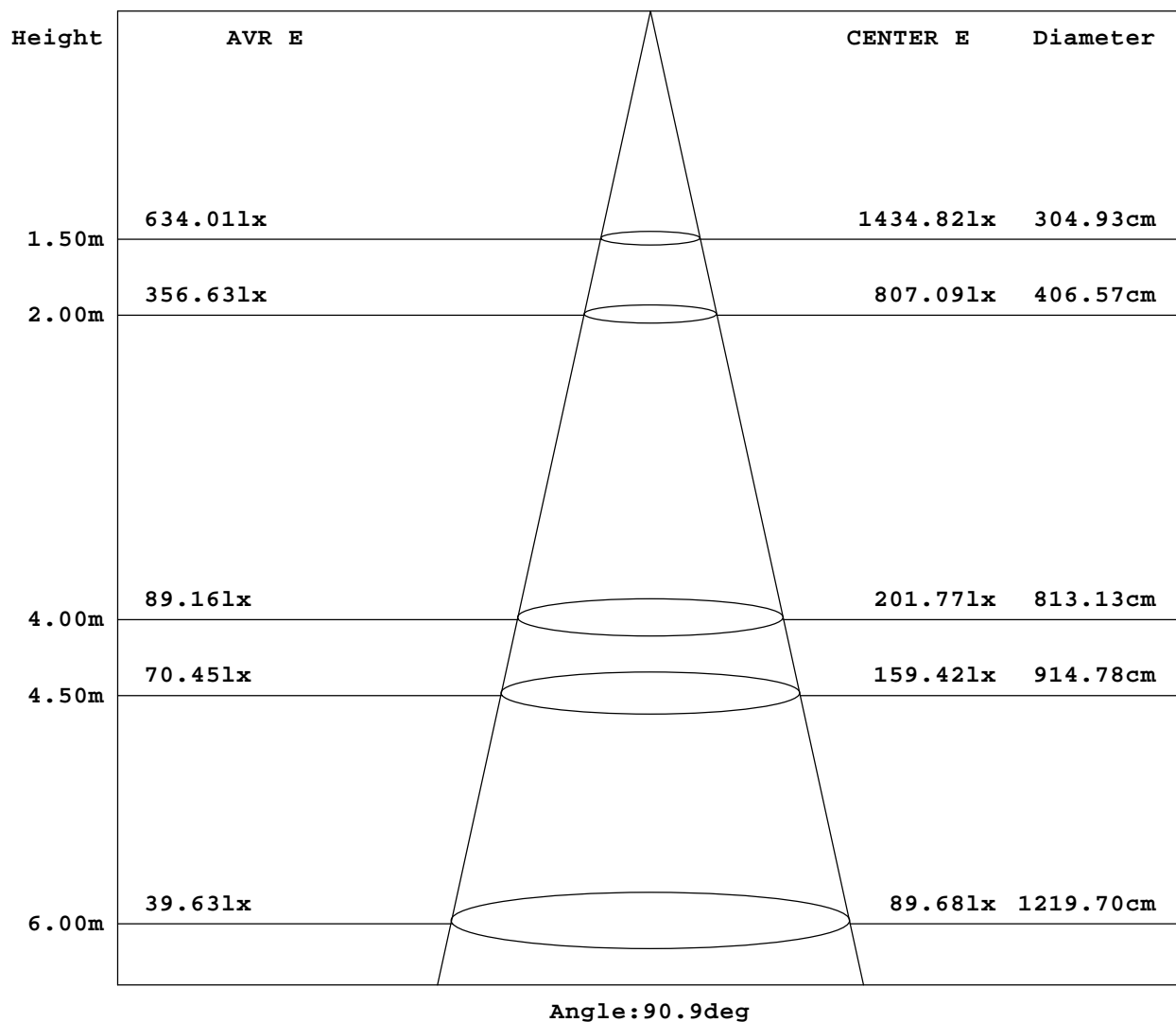
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

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*65mm	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*65mm	SERIAL No.:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	3147	3172	3200	3210	3207	3154	3122	3121	0- 5	76.40	76.40
10.0	3015	3037	3057	3100	3110	3022	2960	2969	5- 10	221.4	297.8
15.0	2883	2889	2890	2945	2980	2885	2810	2836	10- 15	350.6	648.4
20.0	2791	2771	2748	2814	2867	2782	2702	2739	15- 20	466.0	1114
25.0	2713	2685	2647	2729	2792	2720	2640	2673	20- 25	573.7	1688
30.0	2626	2598	2550	2645	2709	2636	2561	2590	25- 30	673.3	2362
35.0	2450	2432	2378	2472	2513	2429	2351	2404	30- 35	745.8	3107
40.0	2111	2137	2095	2152	2176	2087	2008	2061	35- 40	759.7	3867
45.0	1681	1728	1705	1745	1760	1659	1574	1620	40- 45	701.5	4569
50.0	1222	1280	1285	1313	1308	1205	1137	1160	45- 50	589.2	5158
55.0	829.7	875.4	900.1	908.1	894.3	810.8	779.6	783.1	50- 55	450.3	5608
60.0	566.9	575.6	591.3	594.0	597.2	530.7	523.2	521.4	55- 60	319.7	5928
65.0	386.7	378.1	393.9	385.5	395.0	366.5	361.8	366.9	60- 65	223.4	6152
70.0	242.7	247.0	272.0	251.3	259.6	231.1	246.7	233.1	65- 70	157.5	6309
75.0	179.8	168.0	185.8	168.9	173.2	154.0	178.1	157.4	70- 75	108.6	6418
80.0	107.7	96.81	112.9	97.41	103.0	87.61	109.4	89.49	75- 80	70.36	6488
85.0	44.84	39.70	50.89	40.54	42.18	31.53	44.72	32.31	80- 85	36.87	6525
90.0	0	0	0	0	0	0	0	0	85- 90	8.328	6533
95.0	0	0	0	0	0	0	0	0	90- 95	0	6533
100.0	0	0	0	0	0	0	0	0	95-100	0	6533
105.0	0	0	0	0	0	0	0	0	100-105	0	6533
110.0	0	0	0	0	0	0	0	0	105-110	0	6533
115.0	0	0	0	0	0	0	0	0	110-115	0	6533
120.0	0	0	0	0	0	0	0	0	115-120	0	6533
125.0	0	0	0	0	0	0	0	0	120-125	0	6533
130.0	0	0	0	0	0	0	0	0	125-130	0	6533
135.0	0	0	0	0	0	0	0	0	130-135	0	6533
140.0	0	0	0	0	0	0	0	0	135-140	0	6533
145.0	0	0	0	0	0	0	0	0	140-145	0	6533
150.0	0	0	0	0	0	0	0	0	145-150	0	6533
155.0	0	0	0	0	0	0	0	0	150-155	0	6533
160.0	0	0	0	0	0	0	0	0	155-160	0	6533
165.0	0	0	0	0	0	0	0	0	160-165	0	6533
170.0	0	0	0	0	0	0	0	0	165-170	0	6533
175.0	0	0	0	0	0	0	0	0	170-175	0	6533
180.0	0	0	0	0	0	0	0	0	175-180	0	6533
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:

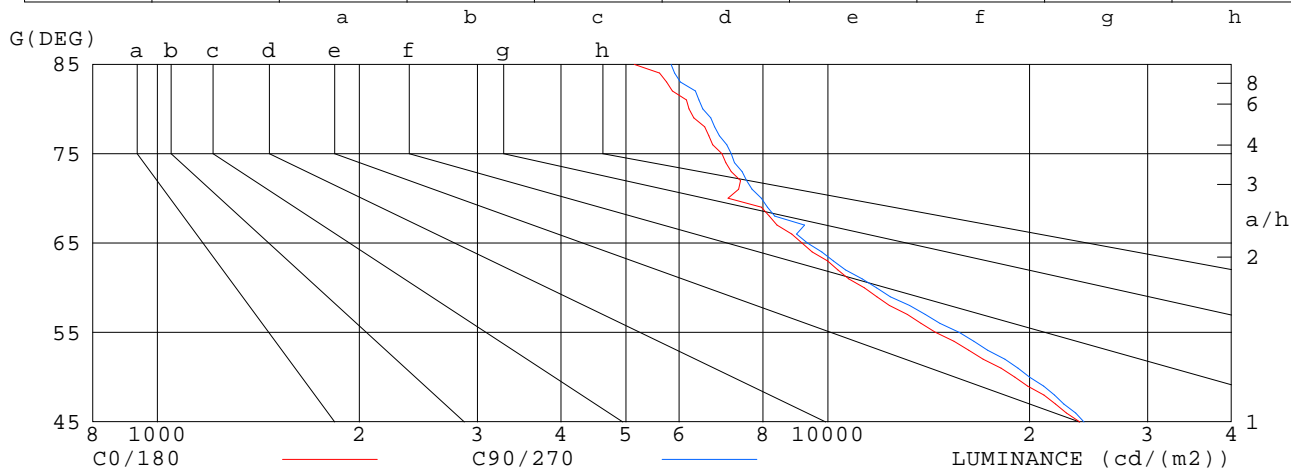
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*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	5145	5839
80	6206	6505
75	6950	7179
70	7099	7955
65	9152	9321
60	11339	11828
55	14467	15694
50	19010	19991
45	23771	24115

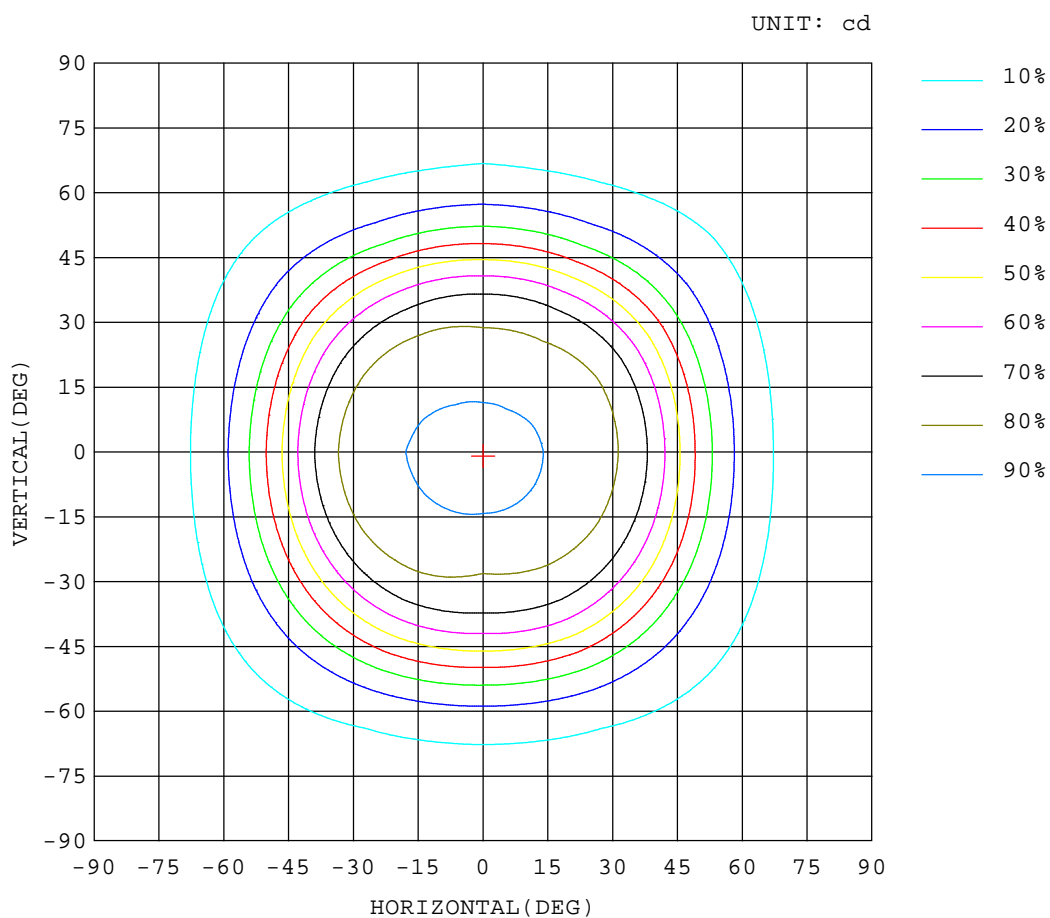
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

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*65mm	SERIAL No.:



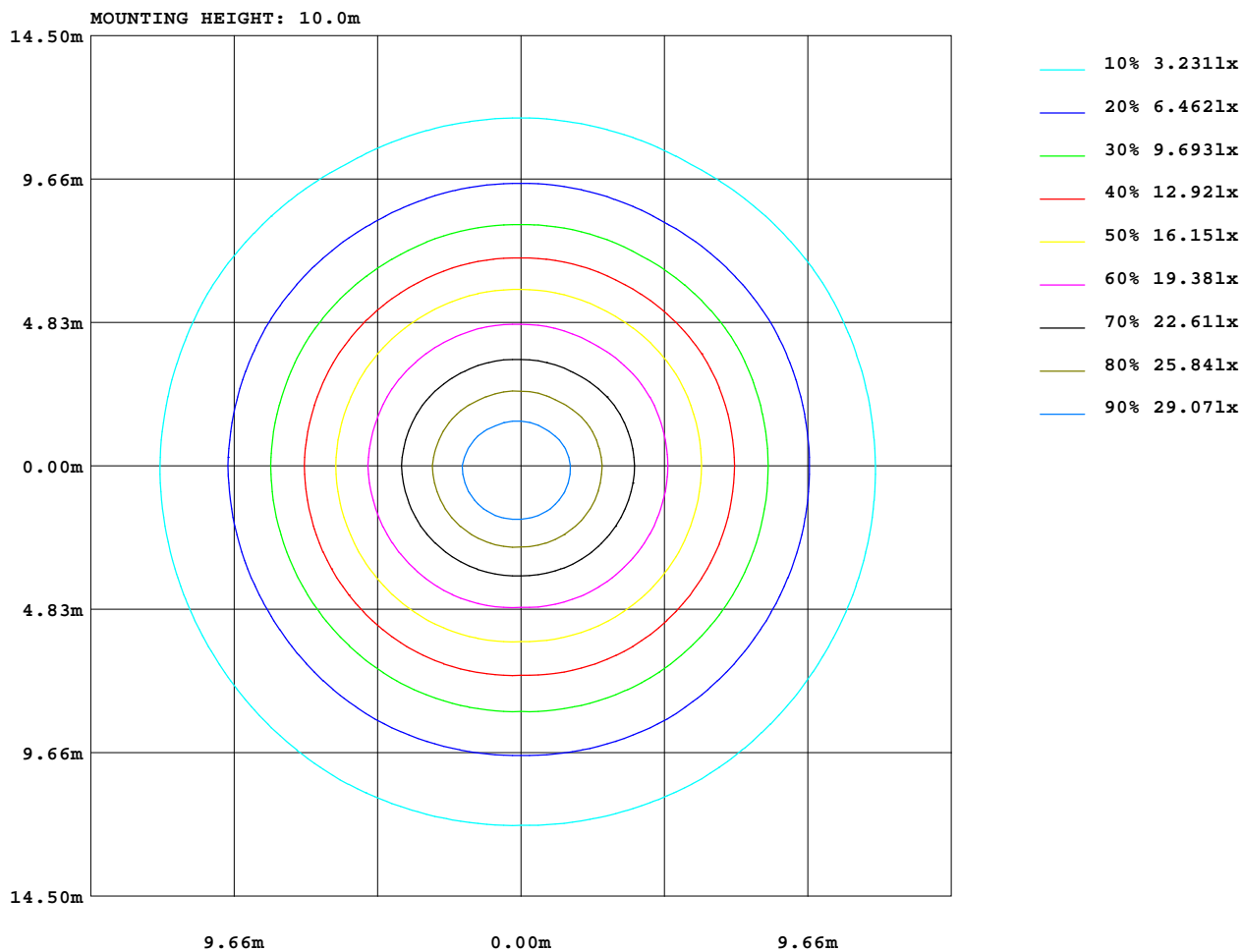
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月07日

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*65mm	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*65mm					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm			Φ t	Φ a			
	0.00	0.04	0.16	0.30	0.43	0.53	0.72	1.03	1.29	1.30	1.03	0.73	0.54	0.44	0.31	0.16	0.04	0.00	9.09	0.00						
90																										
80	0.02	0.24	0.71	1.35	2.05	2.71	3.50	4.48	5.22	5.23	4.51	3.53	2.76	2.09	1.39	0.73	0.25	0.02	40.8	0.00						
70	0.05	0.46	1.34	2.66	4.21	5.90	7.79	9.71	11.0	10.9	9.69	7.79	5.95	4.29	2.74	1.38	0.48	0.05	86.5	33.9						
60	0.08	0.68	2.03	4.20	7.27	11.2	15.7	20.5	23.6	23.5	20.3	15.5	11.1	7.32	4.29	2.10	0.71	0.08	171	151						
50	0.10	0.90	2.74	6.19	12.1	21.2	31.9	41.6	47.1	46.8	40.9	31.0	20.4	11.8	6.22	2.79	0.93	0.11	325	314						
40	0.13	1.08	3.51	8.75	19.4	35.3	51.9	64.2	70.2	70.0	63.6	51.0	34.2	18.5	8.56	3.51	1.13	0.13	506	498						
30	0.15	1.25	4.27	11.6	27.3	48.5	66.8	76.8	80.1	79.7	75.7	66.0	47.7	26.0	11.1	4.21	1.29	0.15	629	623						
	0.16	1.37	4.91	14.2	33.7	57.2	73.8	81.4	85.3	84.6	80.1	72.3	56.3	32.2	13.4	4.78	1.41	0.17	698	693						
	0.17	1.43	5.30	15.9	37.2	61.3	76.3	85.9	93.5	92.2	83.8	74.3	59.9	35.6	14.8	5.12	1.46	0.17	745	740						
	0.17	1.43	5.31	16.0	37.3	61.5	76.3	86.5	95.3	93.8	84.3	74.3	59.9	35.7	14.9	5.13	1.46	0.17	750	745						
	0.16	1.36	4.96	14.5	34.0	57.7	73.8	82.2	87.4	86.8	80.8	72.2	56.4	32.7	13.6	4.79	1.40	0.17	706	700						
-30	0.14	1.24	4.34	11.9	28.0	49.3	67.8	77.3	80.5	80.1	76.3	66.7	48.6	26.8	11.3	4.21	1.27	0.15	637	631						
-40	0.13	1.08	3.58	9.04	20.4	37.2	54.4	66.6	71.5	71.3	66.2	54.1	36.4	19.3	8.62	3.51	1.10	0.13	525	518						
-50	0.10	0.88	2.74	6.47	13.0	23.6	36.0	46.0	51.1	51.0	45.9	35.5	22.8	12.4	6.27	2.72	0.90	0.11	358	348						
-60	0.08	0.67	2.00	4.30	7.87	12.7	18.7	24.1	27.2	27.2	24.0	18.5	12.4	7.72	4.21	1.99	0.68	0.08	195	178						
-70	0.05	0.45	1.30	2.66	4.51	6.66	8.89	10.9	12.1	12.2	10.9	8.91	6.65	4.46	2.62	1.29	0.45	0.05	95.2	49.7						
-80	0.02	0.22	0.67	1.35	2.27	3.27	4.23	5.05	5.57	5.58	5.07	4.27	3.28	2.25	1.32	0.65	0.22	0.02	45.3	0.00						
-90	0.00	0.03	0.13	0.31	0.58	0.89	1.16	1.37	1.51	1.52	1.38	1.17	0.89	0.57	0.29	0.12	0.03	0.00	11.9	0.00						
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)										20	30	40	50	60	70	80	90
Φ t	1.69	14.8	50.0	132	292	497	670	786	850	844	775	659	487	281	126	49.2	15.2	1.77	6533							
Φ a	0.00	0.00	24.8	113	273	479	652	768	831	826	756	640	468	262	107	22.7	0.00	0.00			6228					

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

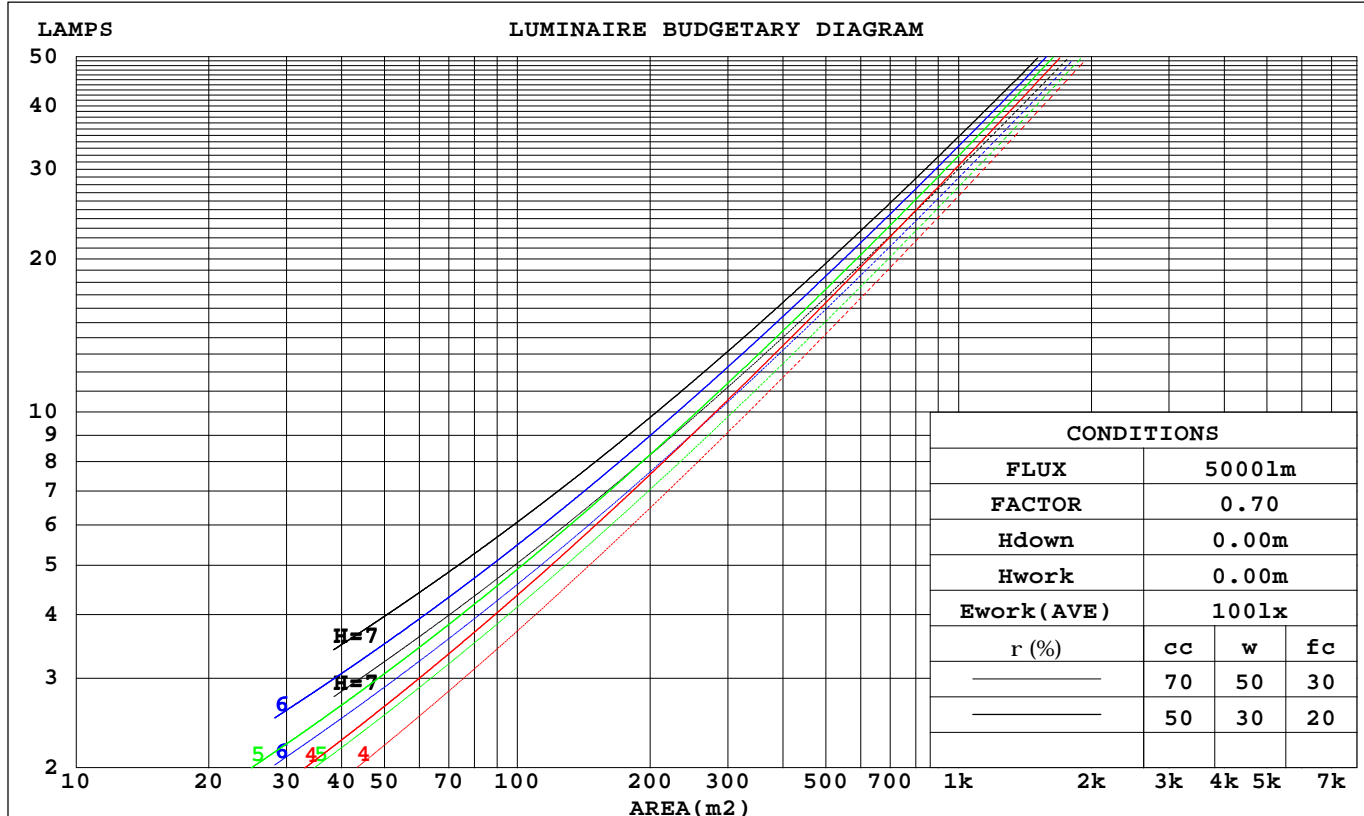
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 44W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*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: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*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	.252	.143	.045	.245	.140	.044	.232	.133	.042	.220	.127	.041	.209	.121	.039															
2.0	.243	.133	.041	.237	.130	.040	.225	.125	.039	.215	.121	.038	.205	.116	.037															
3.0	.230	.122	.037	.224	.120	.036	.215	.116	.035	.205	.113	.035	.197	.109	.034															
4.0	.216	.112	.033	.211	.111	.033	.203	.108	.032	.195	.105	.032	.187	.102	.031															
5.0	.203	.104	.030	.199	.102	.030	.191	.100	.029	.184	.097	.029	.177	.095	.028															
6.0	.191	.096	.027	.187	.095	.027	.181	.093	.027	.174	.090	.027	.168	.089	.026															
7.0	.180	.089	.025	.177	.088	.025	.171	.086	.025	.165	.085	.025	.159	.083	.024															
8.0	.170	.083	.023	.167	.082	.023	.161	.081	.023	.156	.079	.023	.151	.078	.023															
9.0	.161	.078	.022	.158	.077	.022	.153	.076	.021	.148	.074	.021	.144	.073	.021															
10.0	.152	.073	.020	.150	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.176	.157	.139	.151	.134	.120	.103	.092	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.104	.142	.114	.090	.097	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.157	.114	.080	.134	.098	.069	.092	.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	.141	.090	.051	.121	.077	.045	.084	.054	.031	.048	.032	.019	.016	.010	.006	
6.0	.135	.081	.042	.116	.070	.037	.080	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.128	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.073	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.023	.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: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*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	21.7	23.1	22.0	23.3	23.5	22.0	23.3	22.2	23.5	23.7
3H	22.2	23.4	22.4	23.6	23.8	22.4	23.6	22.6	23.8	24.0
4H	22.3	23.5	22.6	23.7	24.0	22.5	23.7	22.8	23.9	24.2
6H	22.5	23.5	22.8	23.8	24.1	22.7	23.8	23.0	24.0	24.3
8H	22.5	23.5	22.8	23.8	24.1	22.7	23.8	23.1	24.0	24.3
12H	22.5	23.5	22.8	23.8	24.1	22.7	23.7	23.1	24.0	24.3
4H 2H	21.9	23.1	22.2	23.3	23.5	22.1	23.2	22.4	23.5	23.7
3H	22.5	23.5	22.8	23.7	24.0	22.6	23.6	23.0	23.9	24.2
4H	22.7	23.6	23.1	23.9	24.3	22.9	23.8	23.3	24.1	24.5
6H	22.9	23.7	23.3	24.1	24.4	23.1	23.9	23.5	24.3	24.6
8H	23.0	23.7	23.4	24.1	24.5	23.2	24.0	23.6	24.3	24.7
12H	23.0	23.7	23.5	24.1	24.5	23.3	24.0	23.7	24.3	24.7
8H 4H	22.8	23.5	23.2	23.9	24.2	22.9	23.7	23.3	24.0	24.4
6H	23.1	23.7	23.5	24.1	24.5	23.3	23.9	23.7	24.3	24.7
8H	23.2	23.7	23.6	24.1	24.6	23.4	24.0	23.9	24.4	24.8
12H	23.3	23.7	23.7	24.2	24.6	23.5	24.0	24.0	24.4	24.9
12H 4H	22.7	23.4	23.2	23.8	24.2	22.9	23.6	23.3	24.0	24.4
6H	23.1	23.6	23.5	24.0	24.5	23.3	23.8	23.7	24.2	24.7
8H	23.2	23.7	23.7	24.1	24.6	23.4	23.9	23.9	24.3	24.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 0.9					+ 0.7 / - 0.9				
1.5H	+ 0.4 / - 0.6					+ 0.4 / - 0.4				
2.0H	+ 1.7 / - 1.4					+ 1.6 / - 1.5				

CIE Pub.117 Corrected 6533 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*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) $k(RI) \times RCR = 5$									
$k = 0.60$	66	56	50	65	55	49	64	55	49	44
0.80	76	66	60	75	66	60	73	65	59	53
1.00	84	75	69	83	74	68	81	75	68	62
1.25	90	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	81	91	84	80	73
2.00	100	94	89	99	93	88	96	90	86	80
2.50	103	97	92	102	96	92	98	93	90	82
3.00	106	101	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	100	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		

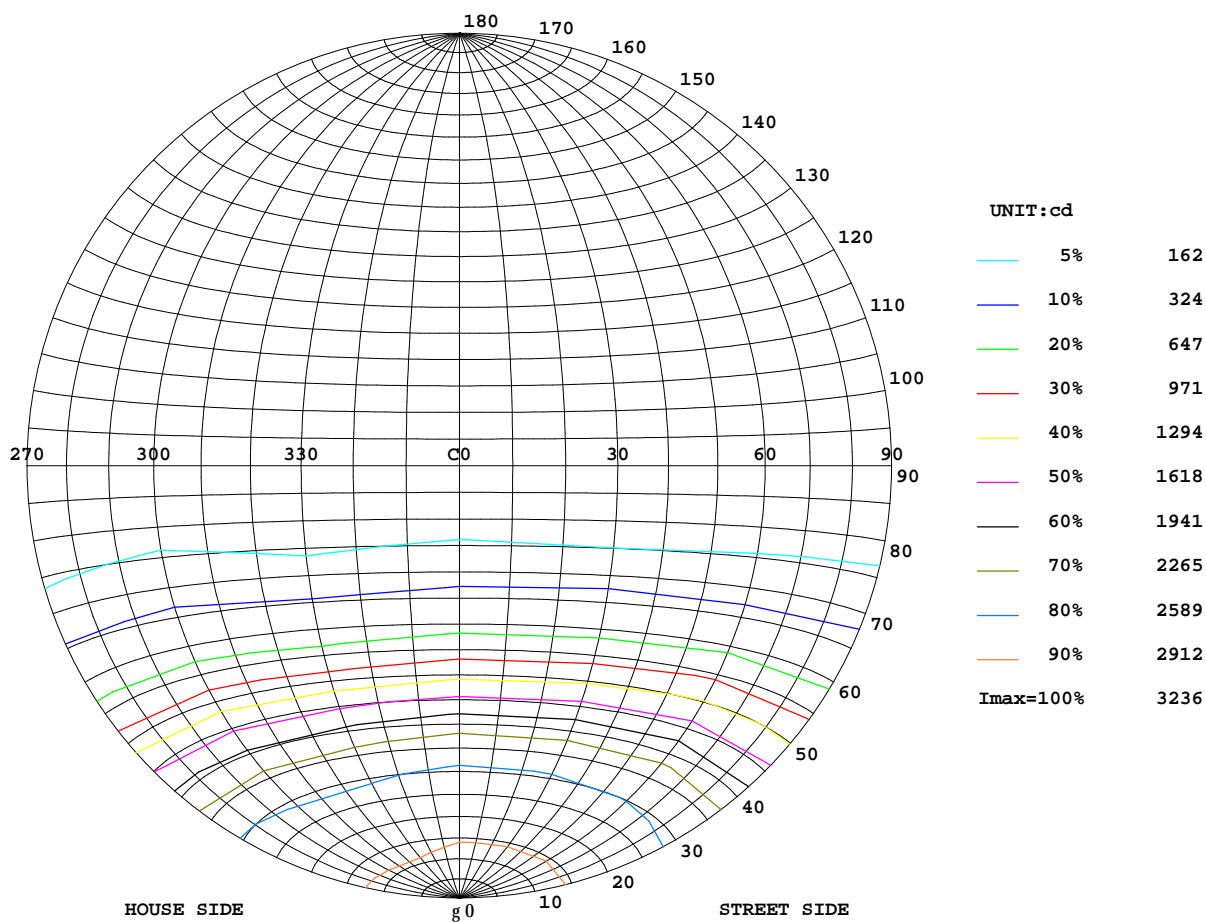
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月07日

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*65mm	SERIAL No.:



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

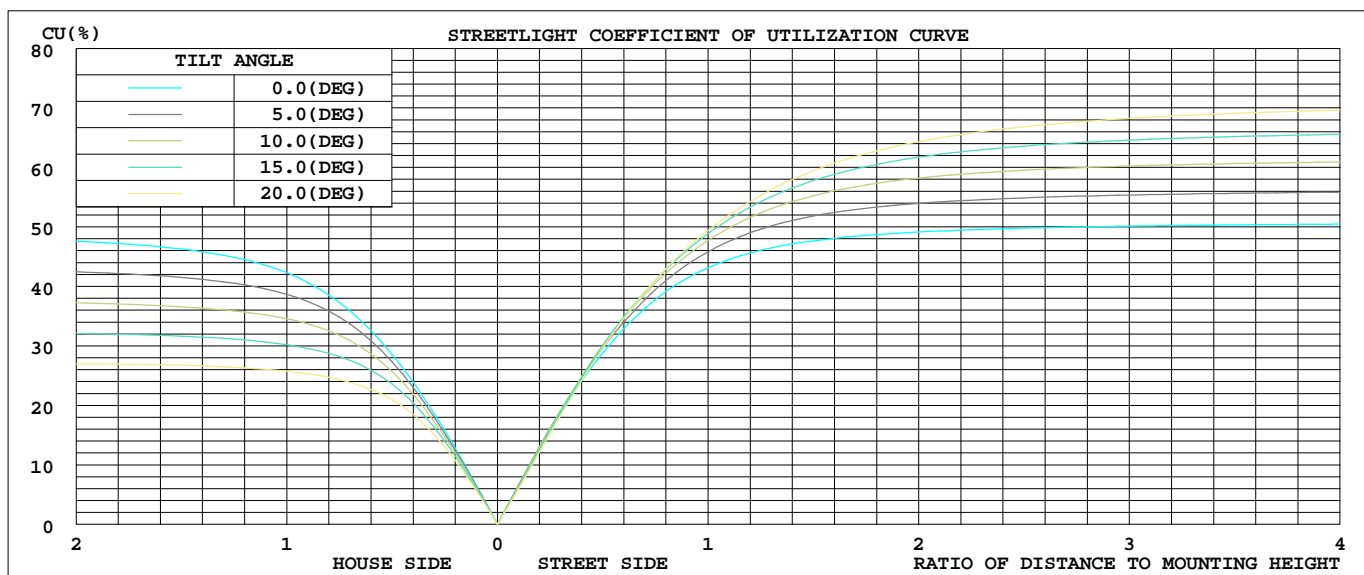
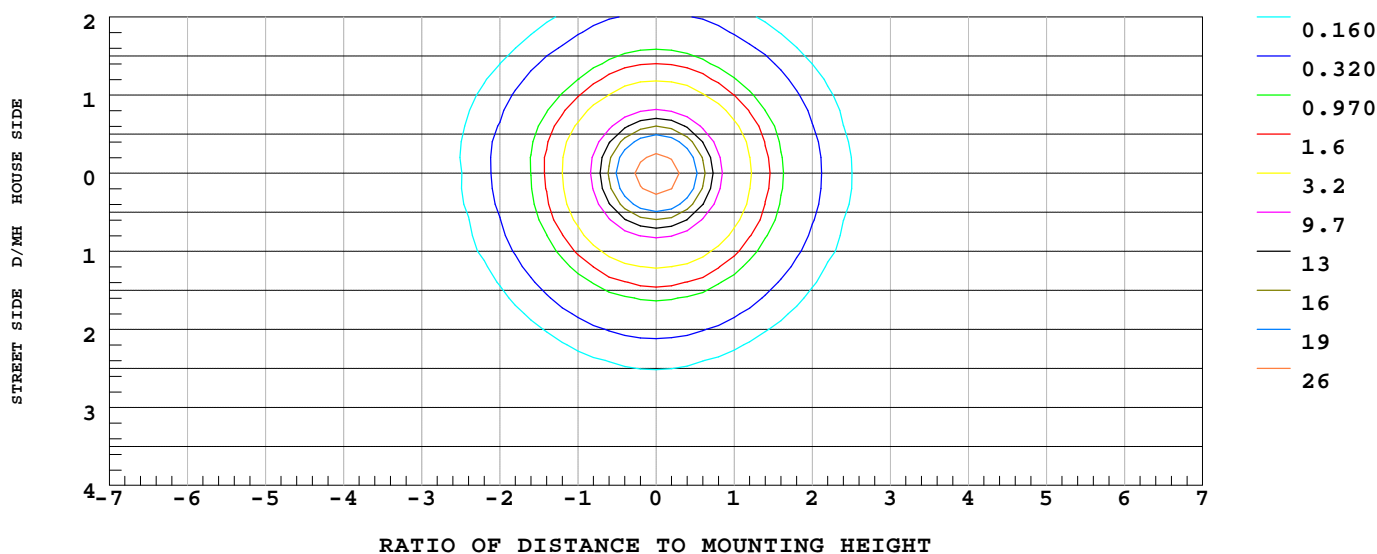
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

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

ILLUMINANCE AT MH=10 m, Enadir = 32.28 lx



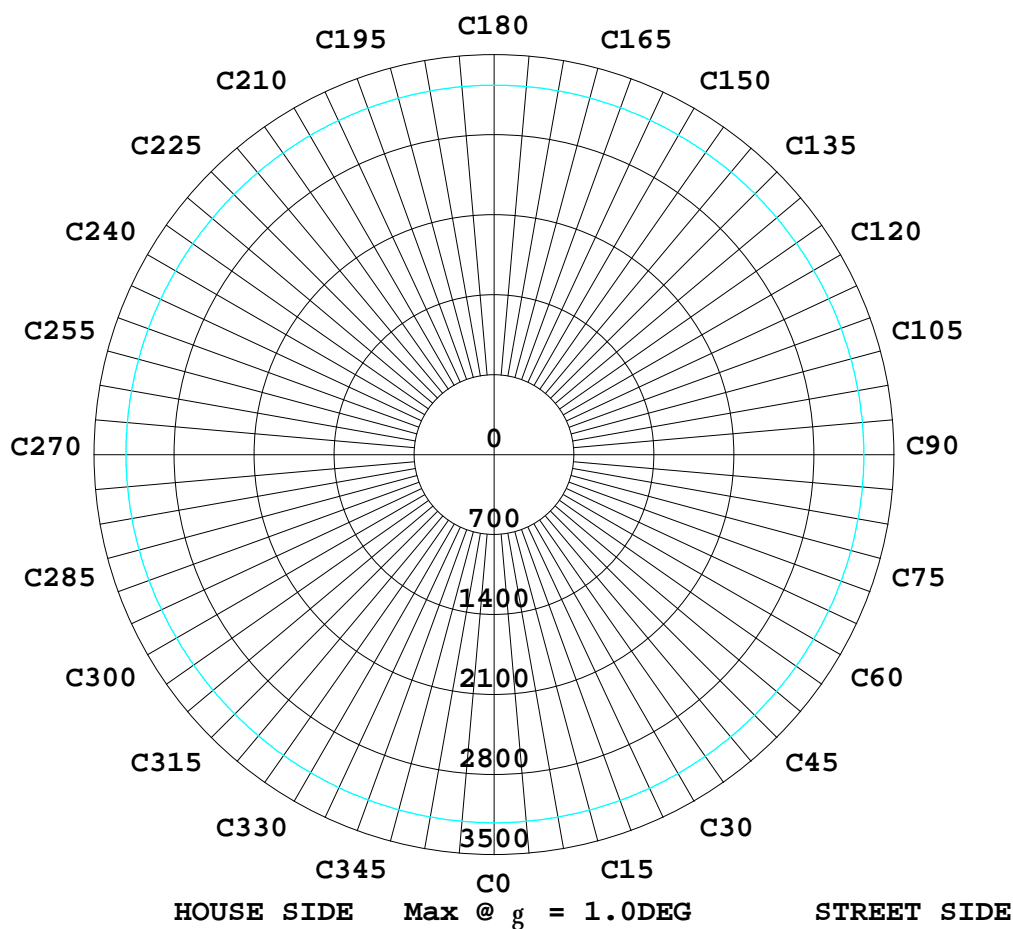
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月07日

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*65mm	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: