

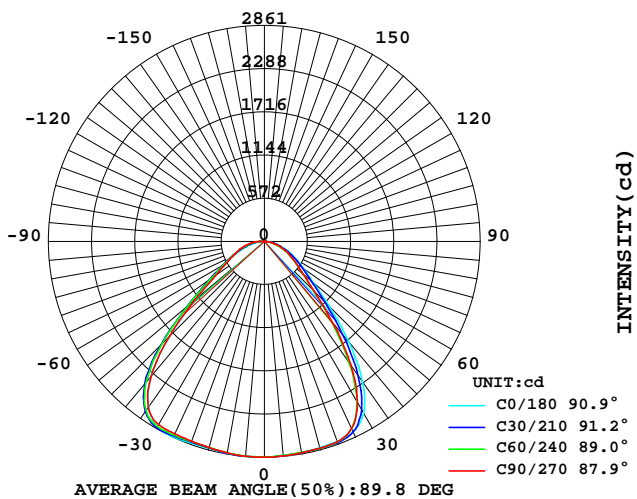
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

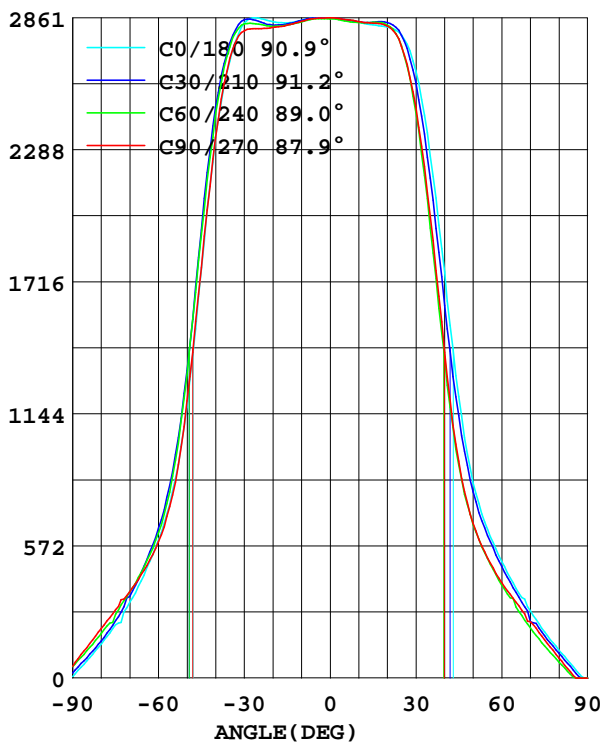
MANUFACTURER:		
Address:		
NAME: 42W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:

DATA OF LAMP		I _{max} (cd)	2861	S/MH(C0/180)	1.36
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.37
NOMINAL POWER(W)	42	TOTAL FLUX(lm)	6340.0	Voltage(V)	220.0
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	153.5	Current(A)	0.198
NOMINAL FLUX(lm)	6340.1	h up(%)	0.0	Power(W)	41.29
LAMPS QUANTITY	1	h down(%)	100.0	Power Factor(PF)	0.945
TEST VOLTAGE(V)	220.0	Effective Flux(lm)	6070.2	EEI	0.093

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



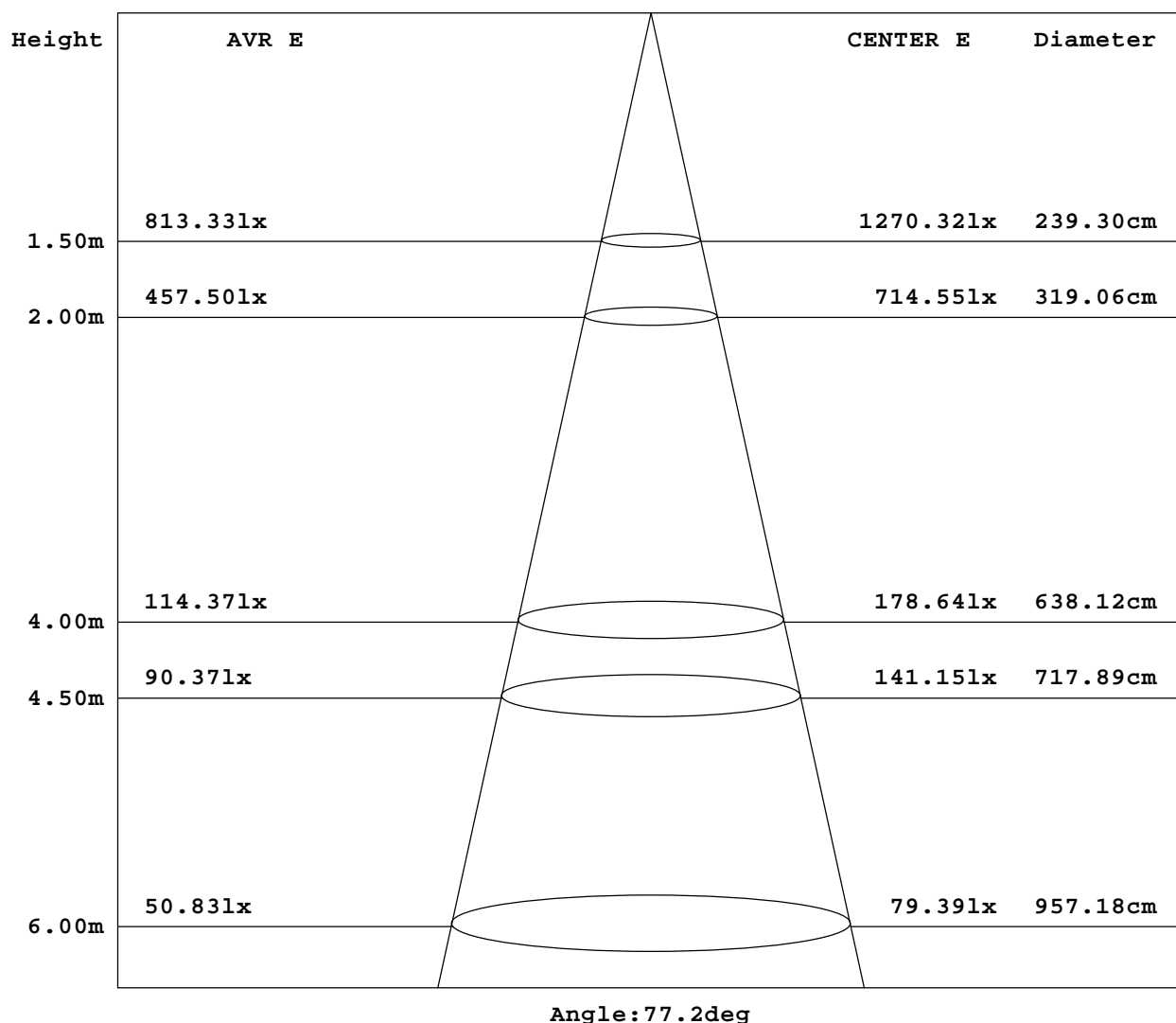
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2020年05月09日

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: 42W	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: 42W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	2859	2857	2857	2849	2852	2849	2853	2848	0- 5	68.24	68.24
10.0	2849	2845	2844	2842	2842	2841	2844	2837	5- 10	203.7	271.9
15.0	2838	2831	2827	2824	2829	2840	2836	2831	10- 15	336.4	608.4
20.0	2843	2825	2818	2815	2820	2834	2824	2839	15- 20	466.4	1075
25.0	2859	2838	2813	2819	2786	2761	2735	2818	20- 25	591.5	1666
30.0	2837	2842	2804	2793	2629	2515	2474	2658	25- 30	698.3	2365
35.0	2673	2743	2684	2620	2261	2057	2000	2303	30- 35	757.5	3122
40.0	2342	2455	2340	2236	1759	1501	1410	1759	35- 40	736.8	3859
45.0	1772	1931	1777	1675	1220	1030	939.3	1192	40- 45	632.8	4492
50.0	1174	1321	1201	1166	844.1	734.9	669.3	809.1	45- 50	488.0	4980
55.0	810.4	883.7	792.6	814.6	644.5	567.3	518.9	597.5	50- 55	364.8	5345
60.0	598.1	638.7	592.0	610.2	506.0	444.3	414.1	451.2	55- 60	283.2	5628
65.0	446.0	482.4	467.1	476.2	387.9	338.7	328.4	331.7	60- 65	227.6	5856
70.0	328.2	362.8	373.3	369.6	290.5	230.2	243.1	227.3	65- 70	179.1	6035
75.0	230.8	262.4	295.6	271.1	199.9	161.9	166.2	151.4	70- 75	135.2	6170
80.0	146.6	176.0	214.3	183.5	120.2	87.85	86.58	80.17	75- 80	92.91	6263
85.0	74.72	102.9	131.2	107.8	49.44	18.58	9.873	16.04	80- 85	53.83	6317
90.0	6.001	34.79	51.01	36.19	0	0	0	0	85- 90	20.33	6337
95.0	0	0	0	0	0	0	0	0	90- 95	2.824	6340
100.0	0	0	0	0	0	0	0	0	95-100	0	6340
105.0	0	0	0	0	0	0	0	0	100-105	0	6340
110.0	0	0	0	0	0	0	0	0	105-110	0	6340
115.0	0	0	0	0	0	0	0	0	110-115	0	6340
120.0	0	0	0	0	0	0	0	0	115-120	0	6340
125.0	0	0	0	0	0	0	0	0	120-125	0	6340
130.0	0	0	0	0	0	0	0	0	125-130	0	6340
135.0	0	0	0	0	0	0	0	0	130-135	0	6340
140.0	0	0	0	0	0	0	0	0	135-140	0	6340
145.0	0	0	0	0	0	0	0	0	140-145	0	6340
150.0	0	0	0	0	0	0	0	0	145-150	0	6340
155.0	0	0	0	0	0	0	0	0	150-155	0	6340
160.0	0	0	0	0	0	0	0	0	155-160	0	6340
165.0	0	0	0	0	0	0	0	0	160-165	0	6340
170.0	0	0	0	0	0	0	0	0	165-170	0	6340
175.0	0	0	0	0	0	0	0	0	170-175	0	6340
180.0	0	0	0	0	0	0	0	0	175-180	0	6340
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:

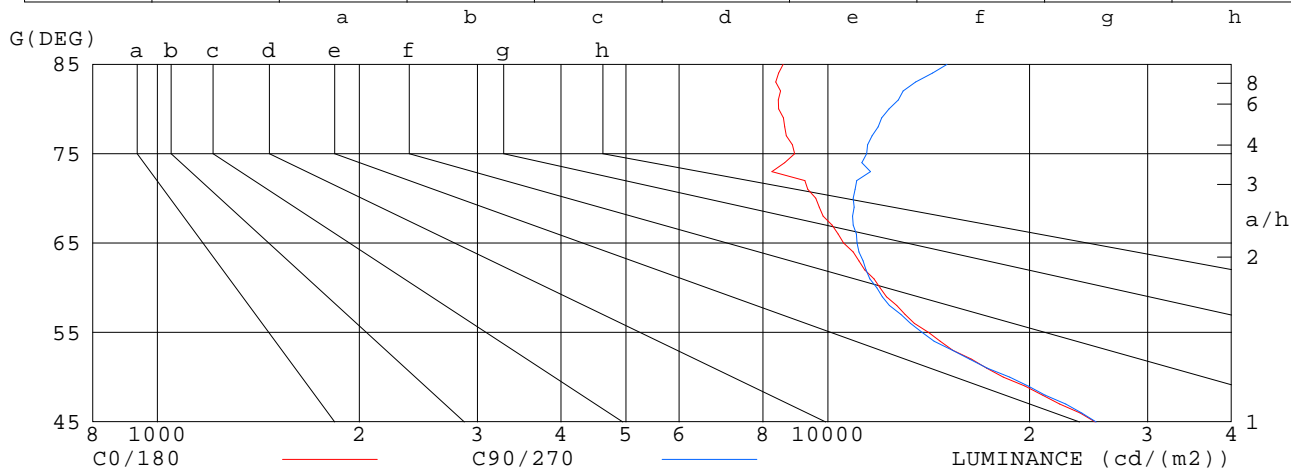
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: 42W	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	8574	15058
80	8443	12345
75	8918	11424
70	9597	10916
65	10555	11053
60	11964	11840
55	14129	13819
50	18264	18680
45	25056	25132

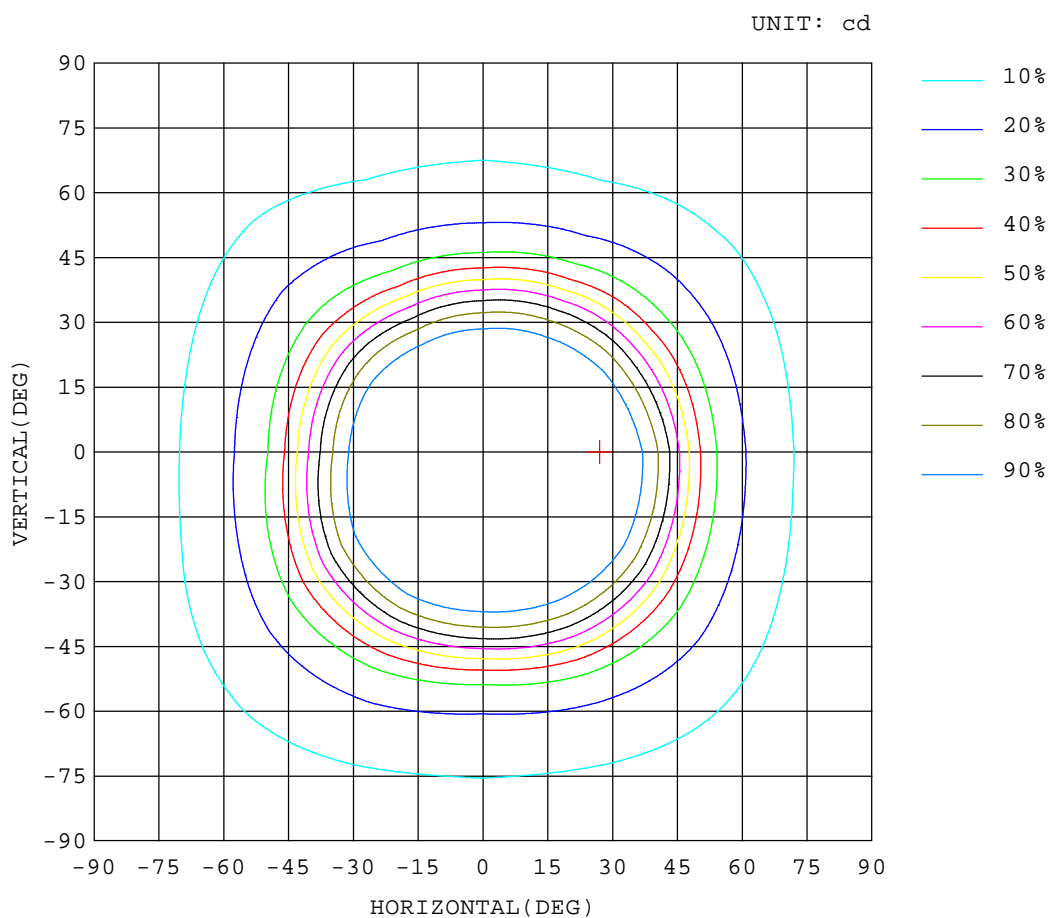
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2020年05月09日

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: 42W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:



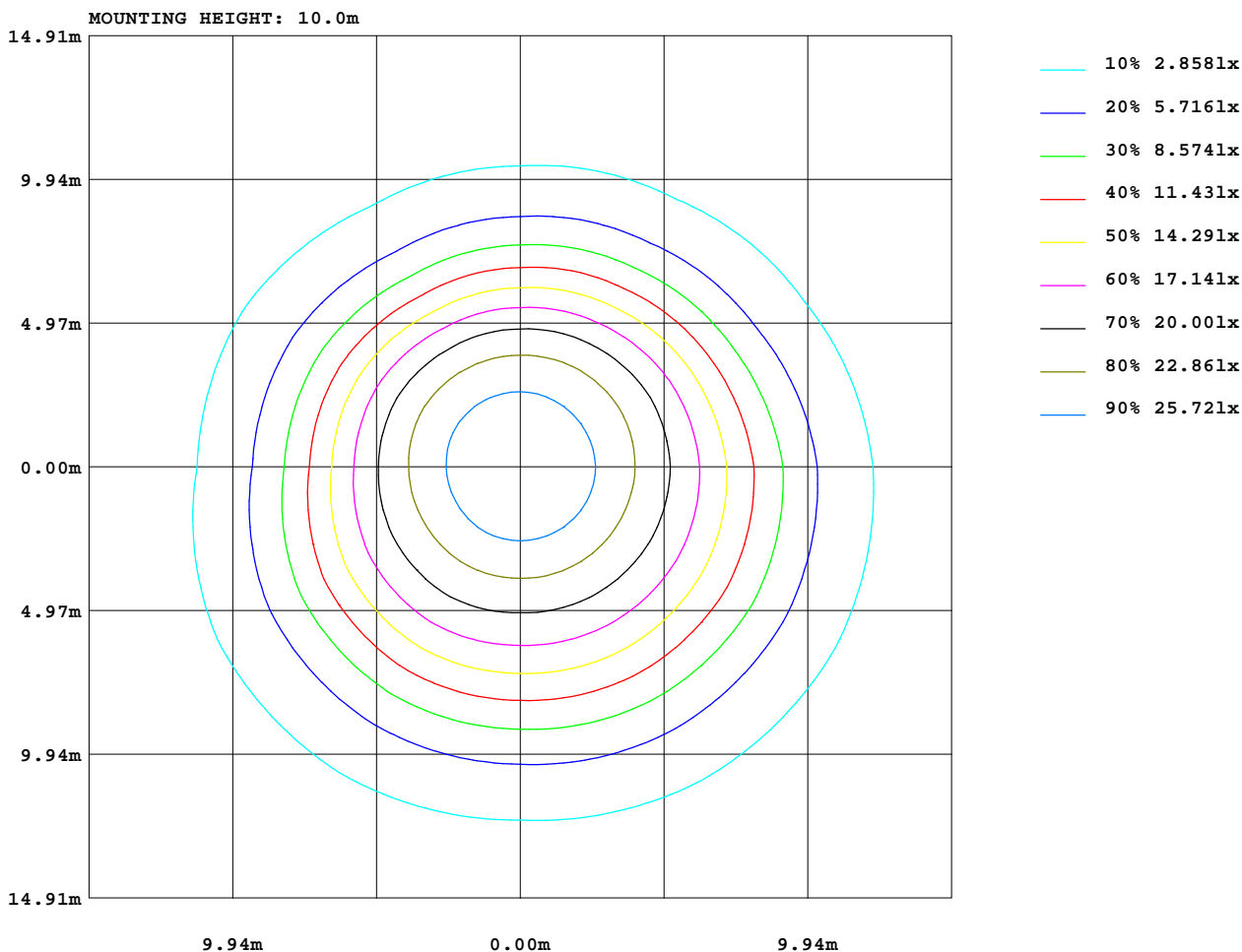
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月09日

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: 42W	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: 42W									TYPE:						WEIGHT:		
SPECIFICATION:									DIMENSION: 1438*65mm						SERIAL No.:		

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.00	0.02	0.08	0.18	0.27	0.31	0.40	0.58	0.71	0.71	0.57	0.39	0.29	0.24	0.15	0.11	0.09	0.03	5.12	0.00		
90	0.01	0.21	0.73	1.41	2.09	2.70	3.38	4.24	4.85	4.83	4.17	3.28	2.56	1.92	1.25	0.70	0.30	0.06	38.7	0.00		
80	0.04	0.50	1.49	2.88	4.35	5.85	7.34	8.83	9.73	9.73	8.81	7.27	5.69	4.13	2.64	1.44	0.57	0.09	81.4	34.5		
70	0.08	0.77	2.25	4.37	7.09	9.78	12.0	14.3	15.7	15.9	14.7	12.3	9.82	6.89	4.19	2.21	0.85	0.13	134	118		
60	0.11	1.02	2.97	6.14	10.1	14.5	19.0	24.4	28.7	29.6	26.4	20.8	15.3	10.3	6.05	3.00	1.11	0.17	220	212		
50	0.14	1.24	3.70	7.80	13.6	22.2	34.6	48.4	58.3	60.1	53.4	40.1	25.2	14.6	8.15	3.83	1.35	0.20	397	392		
40	0.16	1.43	4.33	9.31	17.9	35.0	57.2	73.5	81.2	82.0	76.8	63.8	41.5	21.1	10.3	4.65	1.55	0.22	583	578		
30	0.18	1.56	4.81	10.5	22.6	47.5	71.6	82.6	85.9	85.8	83.2	75.6	56.4	29.4	12.4	5.32	1.72	0.24	678	674		
-30	0.19	1.64	5.08	11.3	26.2	54.5	75.8	83.3	86.2	86.2	83.3	78.3	64.0	36.1	14.2	5.78	1.83	0.26	715	711		
	0.19	1.67	5.18	11.7	27.8	56.9	76.3	82.9	86.2	86.4	83.3	78.5	66.0	38.2	14.7	5.91	1.87	0.26	725	721		
	0.19	1.65	5.10	11.6	27.0	55.3	75.9	82.7	85.6	85.6	83.1	78.2	63.6	35.1	13.8	5.70	1.81	0.25	713	709		
	0.18	1.56	4.80	10.6	23.1	47.8	71.2	82.4	85.3	85.4	83.0	75.0	55.8	28.2	12.1	5.22	1.69	0.24	674	670		
-40	0.16	1.41	4.32	9.20	17.9	34.0	55.8	72.5	79.5	80.0	74.8	61.2	39.5	20.3	10.0	4.53	1.53	0.22	567	563		
-50	0.14	1.21	3.69	7.62	13.1	21.3	33.2	45.3	52.7	53.8	48.2	36.4	23.3	14.0	7.94	3.75	1.32	0.19	368	362		
-60	0.11	0.98	2.91	6.02	9.69	13.9	18.5	22.5	24.8	25.1	23.1	19.1	14.3	9.84	5.94	2.92	1.06	0.16	201	192		
-70	0.07	0.73	2.13	4.24	6.83	9.54	11.9	13.5	14.3	14.3	13.4	11.7	9.33	6.63	4.07	2.11	0.80	0.12	126	109		
-80	0.04	0.45	1.36	2.65	4.12	5.66	7.12	8.22	8.85	8.81	8.12	6.99	5.53	3.97	2.51	1.34	0.53	0.09	76.4	25.6		
-90	0.02	0.19	0.62	1.21	1.86	2.56	3.18	3.64	3.95	3.94	3.61	3.14	2.50	1.78	1.12	0.61	0.25	0.04	34.2	0.00		
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																						
Φ t	2.01	18.2	55.6	119	236	440	635	754	813	819	773	673	501	283	132	59.2	20.2	2.97	6340			
Φ a	0.00	0.00	36.6	103	221	425	620	739	798	803	757	657	486	268	116	41.3	1.83	0.00		6070		

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

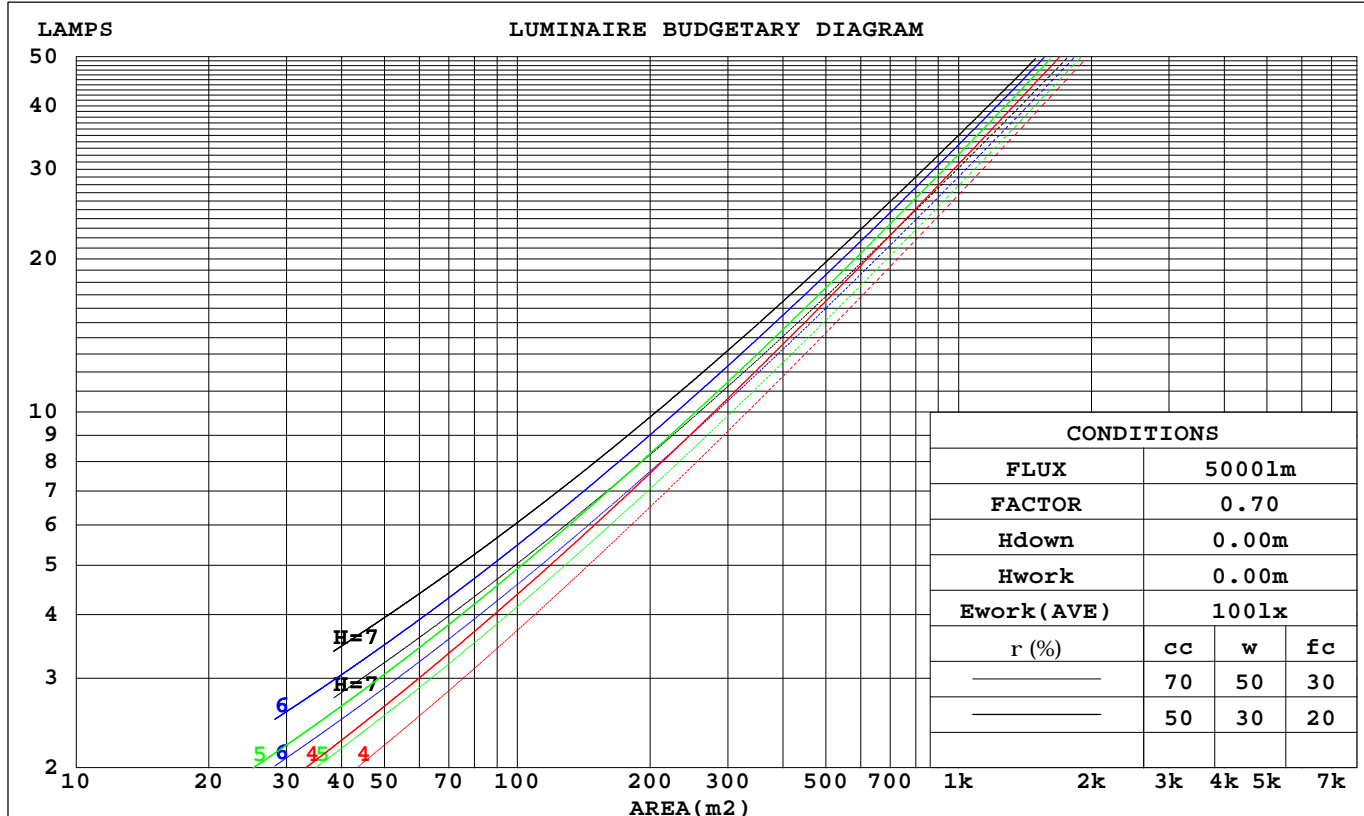
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 42W	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: 42W						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	.148	.047	.253	.144	.046	.239	.137	.044	.228	.131	.042	.216	.125	.040															
2.0	.247	.135	.042	.241	.133	.041	.230	.128	.040	.219	.123	.038	.210	.119	.037															
3.0	.232	.123	.037	.227	.121	.037	.217	.117	.036	.208	.114	.035	.199	.110	.034															
4.0	.217	.113	.033	.213	.111	.033	.204	.108	.032	.196	.105	.032	.188	.102	.031															
5.0	.204	.104	.030	.199	.102	.030	.192	.100	.029	.185	.097	.029	.178	.095	.029															
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	.170	.086	.025	.165	.084	.025	.159	.083	.024															
8.0	.169	.083	.023	.167	.082	.023	.161	.080	.023	.156	.079	.023	.151	.078	.023															
9.0	.160	.077	.022	.158	.077	.022	.153	.075	.021	.148	.074	.021	.144	.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	.152	.135	.119	.104	.093	.083	.060	.054	.048	.019	.017	.016	
2.0	.167	.132	.104	.143	.114	.090	.098	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.158	.114	.080	.135	.099	.069	.093	.069	.049	.054	.040	.029	.017	.013	.009	
4.0	.149	.101	.063	.128	.087	.055	.088	.061	.039	.051	.035	.023	.016	.012	.008	
5.0	.142	.090	.052	.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	.129	.074	.036	.111	.064	.032	.076	.045	.022	.044	.027	.013	.014	.009	.004	
8.0	.123	.068	.031	.106	.059	.027	.073	.042	.019	.042	.025	.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: 42W					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	22.4	23.7	22.7	23.9	24.1	22.3	23.7	22.6	23.9	24.1	
	3H	23.0	24.3	23.3	24.5	24.7	23.1	24.3	23.4	24.5	24.8
	4H	23.3	24.5	23.6	24.7	24.9	23.5	24.7	23.8	24.9	25.2
	6H	23.5	24.6	23.8	24.9	25.1	24.0	25.1	24.3	25.3	25.6
	8H	23.6	24.7	23.9	24.9	25.2	24.2	25.3	24.5	25.5	25.8
	12H	23.7	24.7	24.0	25.0	25.3	24.4	25.4	24.8	25.7	26.0
4H	2H	22.6	23.8	22.9	24.0	24.3	22.6	23.7	22.9	24.0	24.2
	3H	23.5	24.5	23.8	24.8	25.1	23.6	24.6	23.9	24.9	25.2
	4H	23.9	24.8	24.2	25.1	25.4	24.1	25.1	24.5	25.4	25.7
	6H	24.2	25.1	24.6	25.4	25.8	24.8	25.6	25.2	25.9	26.3
	8H	24.4	25.1	24.8	25.5	25.9	25.1	25.8	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	24.8	24.5	25.2	25.6	24.3	25.1	24.7	25.4	25.8
	6H	24.6	25.2	25.0	25.6	26.0	25.1	25.7	25.5	26.1	26.6
	8H	24.8	25.4	25.3	25.8	26.2	25.5	26.1	26.0	26.5	27.0
	12H	25.0	25.5	25.5	25.9	26.4	26.0	26.4	26.5	26.9	27.4
12H	4H	24.1	24.8	24.5	25.1	25.5	24.3	25.0	24.7	25.4	25.8
	6H	24.7	25.2	25.1	25.6	26.1	25.2	25.7	25.6	26.1	26.6
	8H	24.9	25.4	25.4	25.9	26.3	25.6	26.1	26.1	26.6	27.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.7 / - 0.8					+ 0.6 / - 0.6					
1.5H	+ 0.4 / - 0.7					+ 0.3 / - 0.5					
2.0H	+ 1.4 / - 0.8					+ 1.2 / - 0.7					

CIE Pub.117 Corrected 6340 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.4)

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: 42W	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	57	51	67	57	51	65	57	51	46
0.80	77	67	61	76	67	61	74	66	60	55
1.00	84	75	69	83	75	69	81	76	68	62
1.25	91	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	81	91	84	80	73
2.00	100	93	88	99	92	87	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	104	101	107	103	99	103	99	97	88
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		

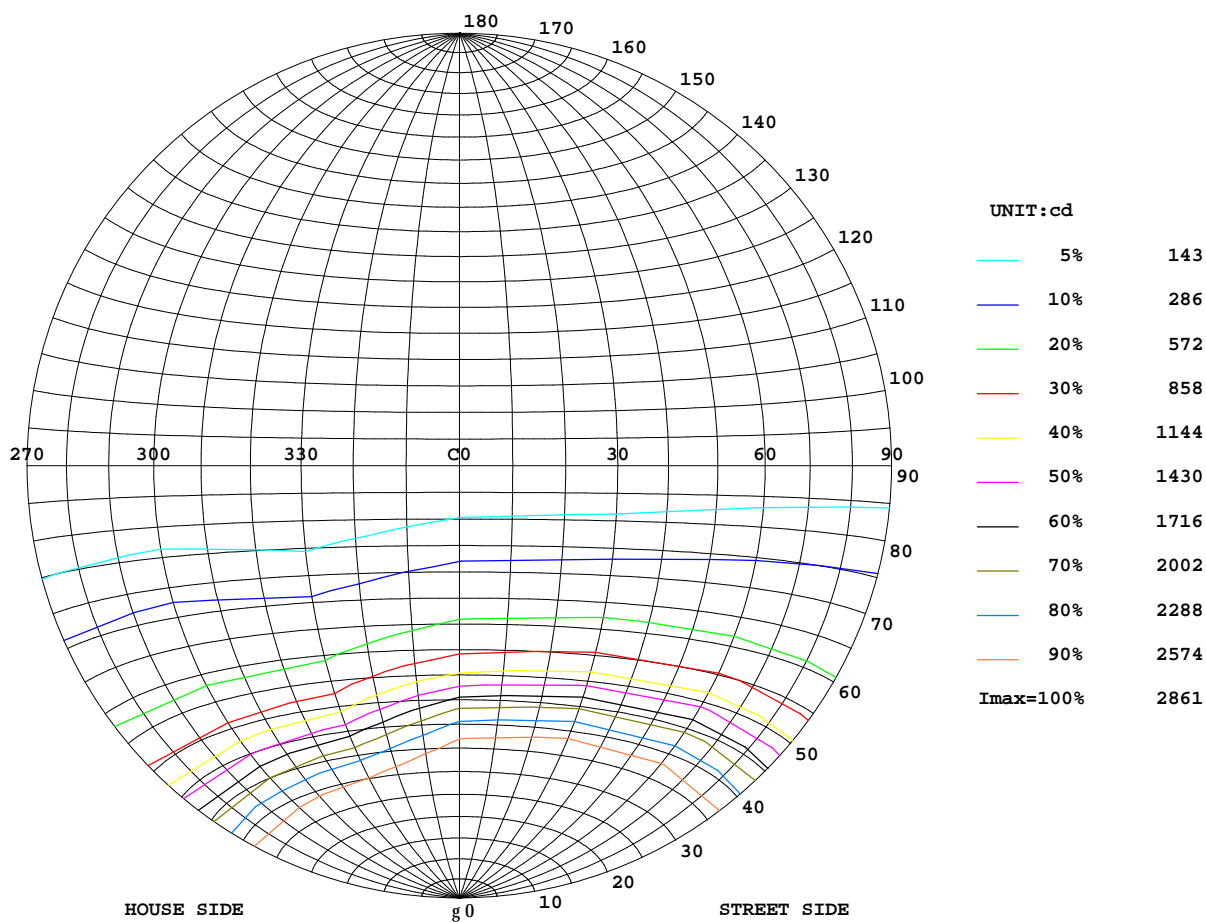
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2020年05月09日

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: 42W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:



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

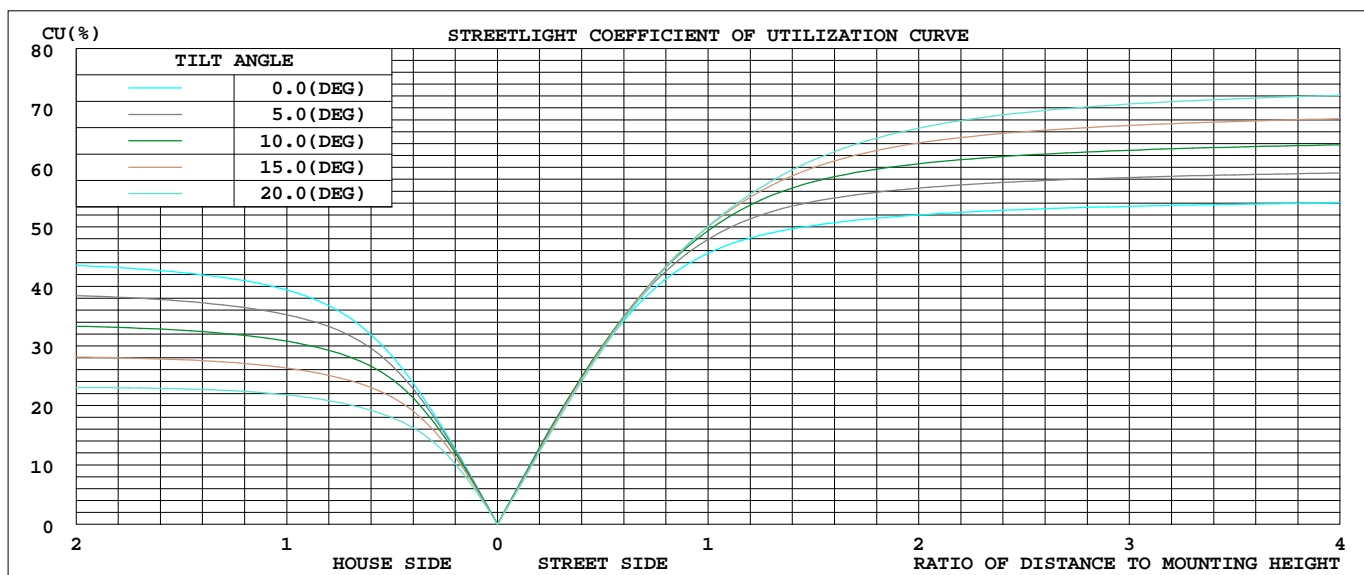
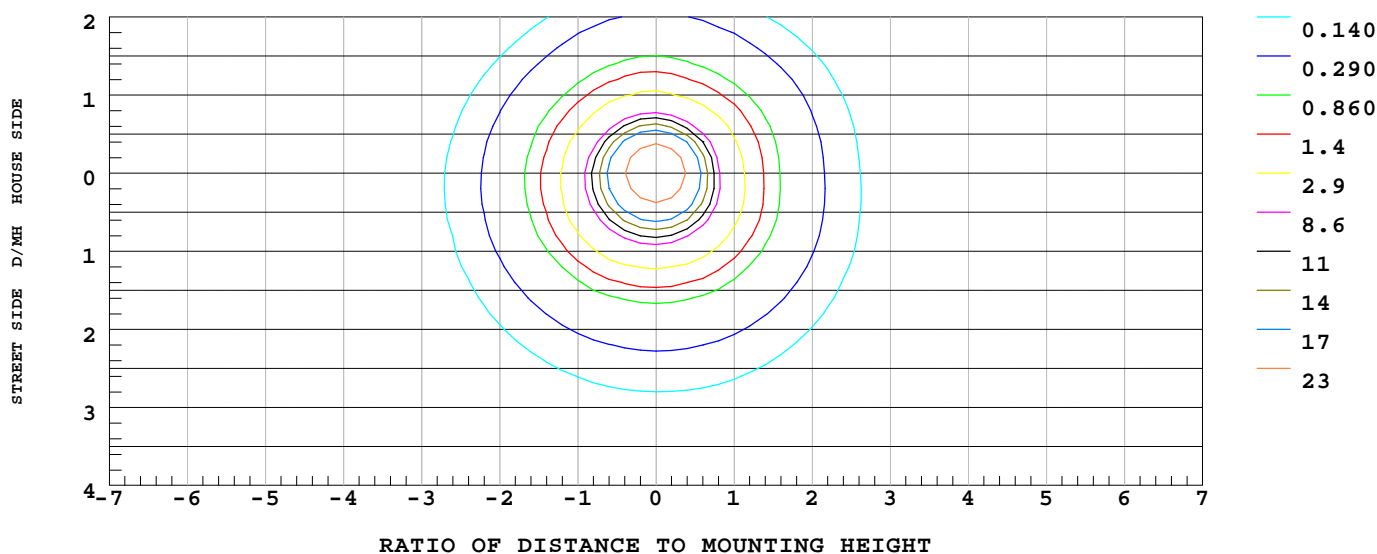
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 42W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 28.58 lx



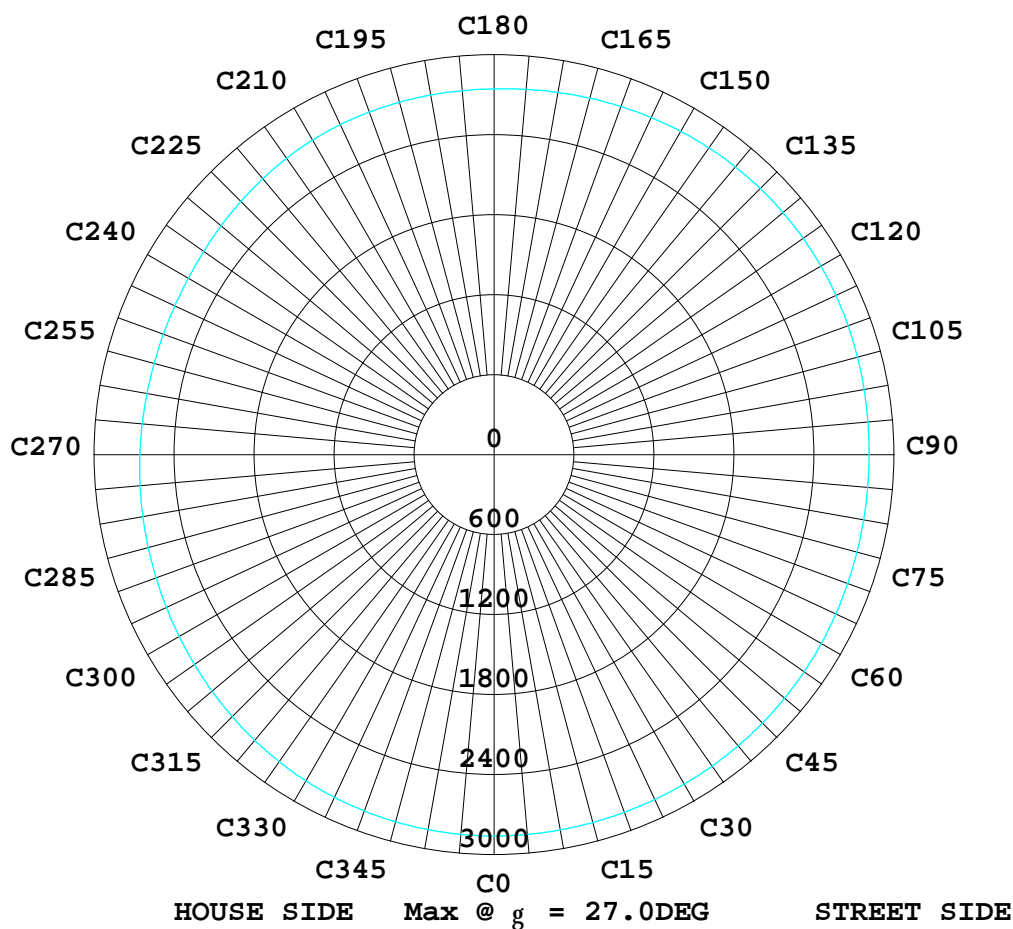
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2020年05月09日

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: 42W	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: