

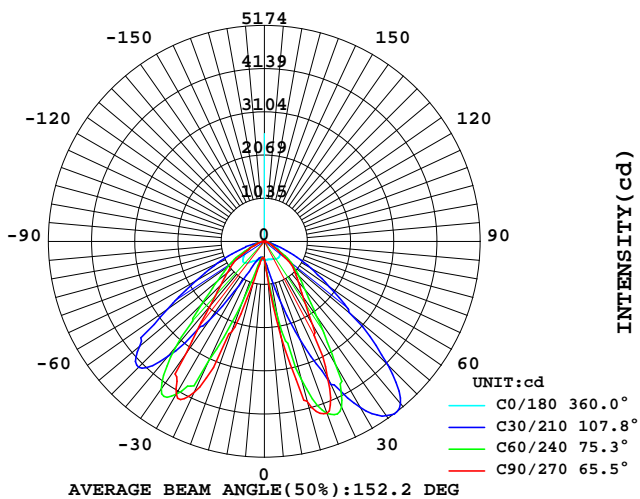
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

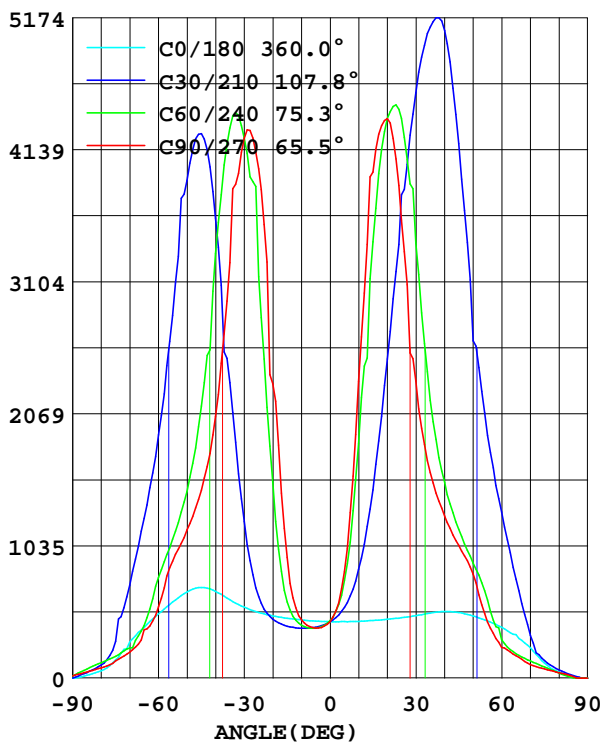
MANUFACTURER:		
Address:		
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:

DATA OF LAMP		I _{max} (cd)	5174	S/MH(C0/180)	2.03
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	2.25
NOMINAL POWER(W)	48	TOTAL FLUX(lm)	7056.0	Voltage(V)	218.6
RATED VOLTAGE(V)	218	EFFICIENCY(lm/W)	149.2	Current(A)	0.226
NOMINAL FLUX(lm)	7056.1	h up(%)	0.0	Power(W)	47.29
LAMPS QUANTITY	1	h down(%)	100.0	Power Factor(PF)	0.955
TEST VOLTAGE(V)	218.7	Effective Flux(lm)	6457.5	EEI	0.100

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



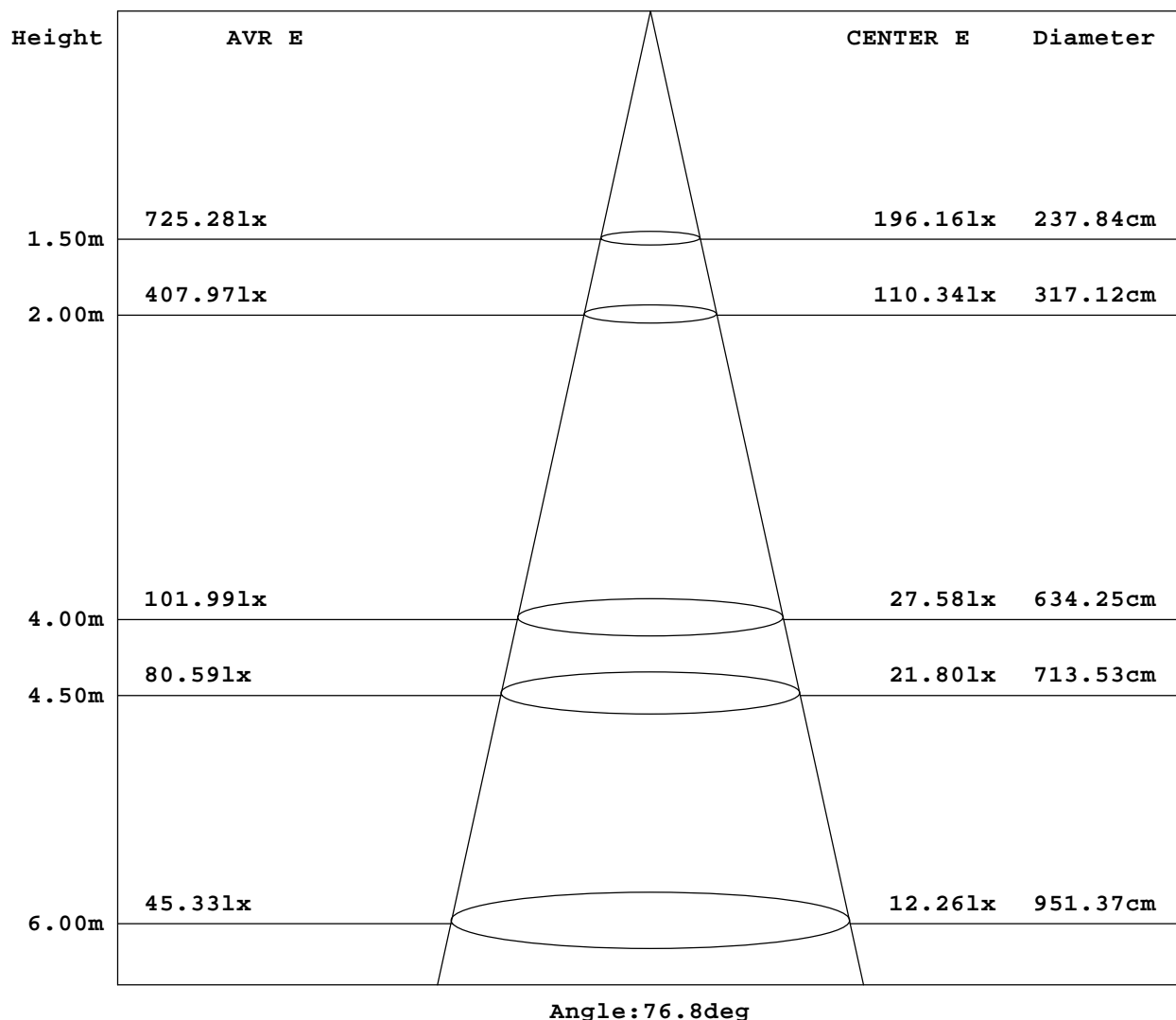
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月09日

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:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:



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

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	446.1	394.3	390.1	389.3	441.4	659.0	836.6	664.7	0- 5	11.51	11.51
10.0	454.3	401.4	454.9	401.0	442.9	1343	2324	1393	5- 10	50.35	61.86
15.0	467.7	501.3	943.0	526.4	450.7	2446	3963	2548	10- 15	141.4	203.3
20.0	485.7	997.0	2306	1119	460.1	3443	4383	3531	15- 20	303.1	506.4
25.0	513.8	1891	3990	2122	471.8	4085	3588	4038	20- 25	519.0	1025
30.0	554.2	2726	4230	3059	488.5	3995	2326	3890	25- 30	723.5	1749
35.0	614.1	3311	3255	3650	508.0	3636	1608	3466	30- 35	852.7	2602
40.0	678.0	3463	2047	3725	520.6	3302	1267	3045	35- 40	915.8	3518
45.0	708.5	3198	1471	3302	513.2	2676	1039	2347	40- 45	900.1	4418
50.0	673.8	2679	1159	2628	486.1	1770	813.9	1634	45- 50	798.7	5217
55.0	595.5	1965	913.2	1835	446.8	1256	438.3	1098	50- 55	643.7	5860
60.0	501.7	1347	559.0	1212	396.5	800.3	239.2	724.0	55- 60	468.1	6328
65.0	394.5	829.9	377.2	770.9	338.6	481.4	174.0	447.9	60- 65	322.9	6651
70.0	281.1	479.8	200.6	430.2	236.8	232.4	105.1	205.6	65- 70	205.0	6856
75.0	140.5	229.1	133.0	182.7	117.8	110.8	71.09	105.3	70- 75	111.3	6968
80.0	56.09	110.8	79.56	98.62	46.53	51.19	41.45	48.65	75- 80	54.27	7022
85.0	21.48	56.27	45.93	44.11	15.43	9.026	10.35	7.961	80- 85	26.20	7048
90.0	0	8.445	15.80	4.936	0	0	0	0	85- 90	7.393	7056
95.0	0	0	0	0	0	0	0	0	90- 95	0.396	7056
100.0	0	0	0	0	0	0	0	0	95-100	0	7056
105.0	0	0	0	0	0	0	0	0	100-105	0	7056
110.0	0	0	0	0	0	0	0	0	105-110	0	7056
115.0	0	0	0	0	0	0	0	0	110-115	0	7056
120.0	0	0	0	0	0	0.823	0	0	115-120	0.020	7056
125.0	0	0	0	0	0	0	0	0	120-125	0.006	7056
130.0	0	0	0	0	0	0	0	0	125-130	0	7056
135.0	0	0	0	0	0	0	0	0	130-135	0	7056
140.0	0	0	0	0	0	0	0	0	135-140	0	7056
145.0	0	0	0	0	0	0	0	0	140-145	0	7056
150.0	0	0	0	0	0	0	0	0	145-150	0	7056
155.0	0	0	0	0	0	0	0	0	150-155	0	7056
160.0	0	0	0	0	0	0	0	0	155-160	0	7056
165.0	0	0	0	0	0	0	0	0	160-165	0	7056
170.0	0	0	0	0	0	0	0	0	165-170	0	7056
175.0	0	0	0	0	0	0	0	0	170-175	0	7056
180.0	0	0	0	0	0	0	0	0	175-180	0	7056
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月09日

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

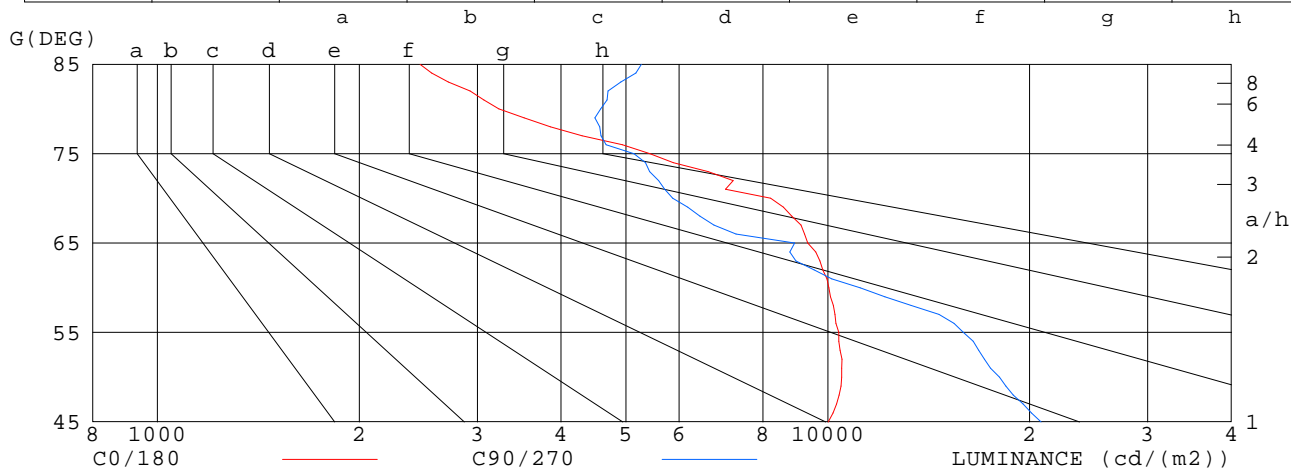
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME:	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	2466	5270
80	3230	4582
75	5431	5141
70	8220	5868
65	9335	8926
60	10035	11182
55	10382	15922
50	10482	18029
45	10020	20799

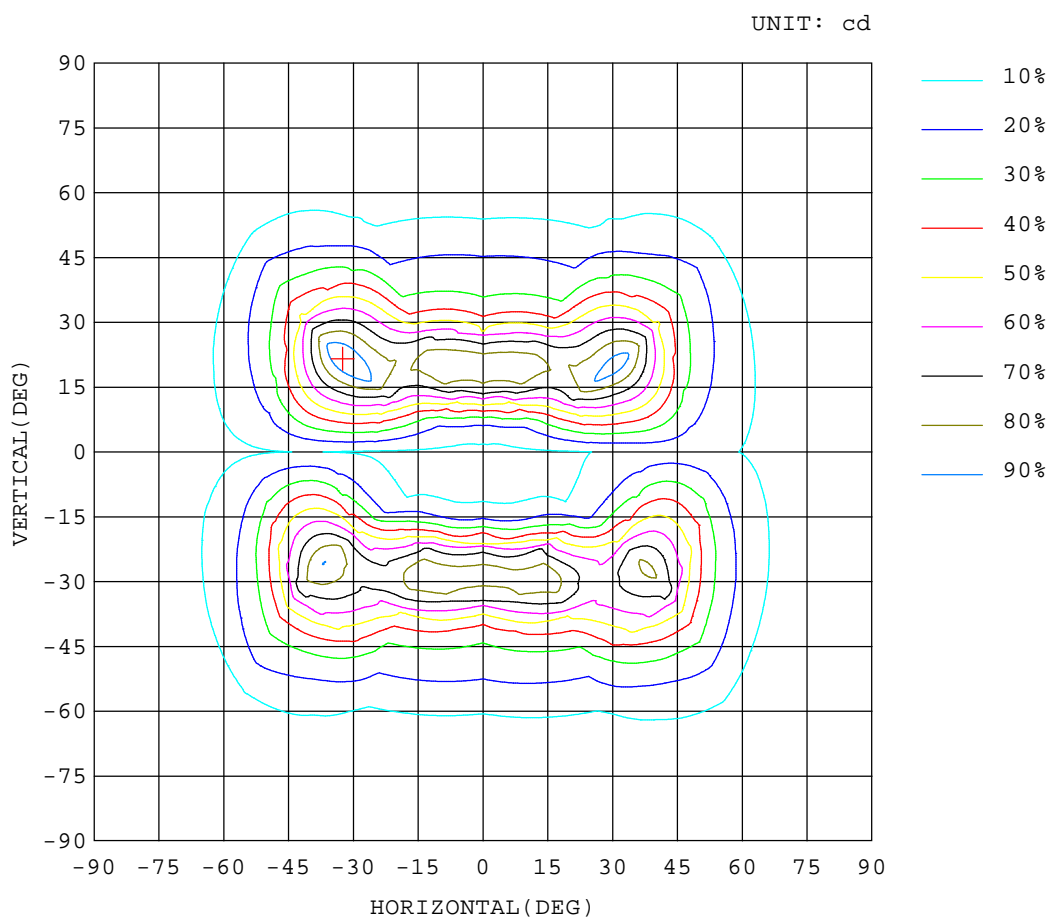
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月09日

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:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:



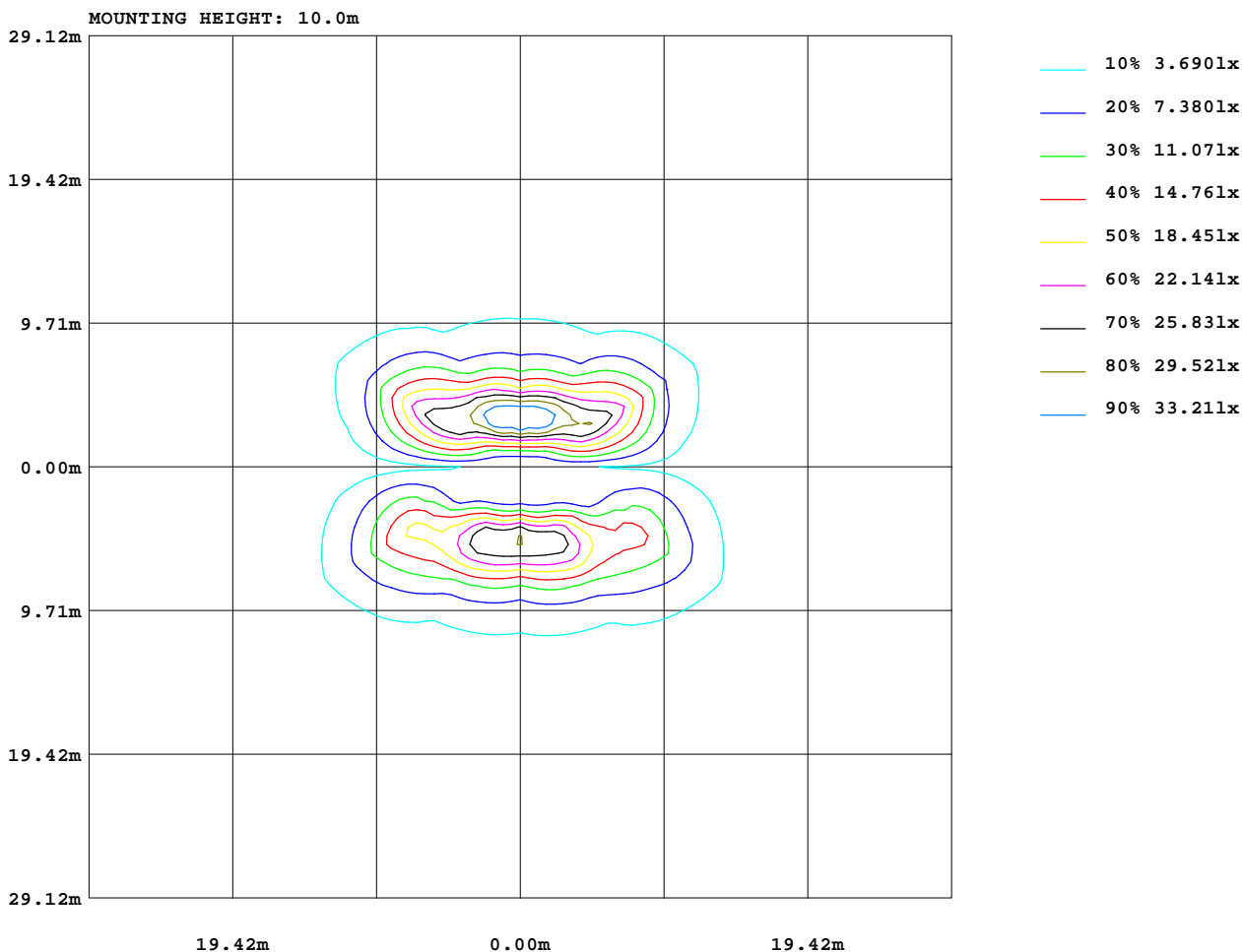
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月09日

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:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1150*65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月09日

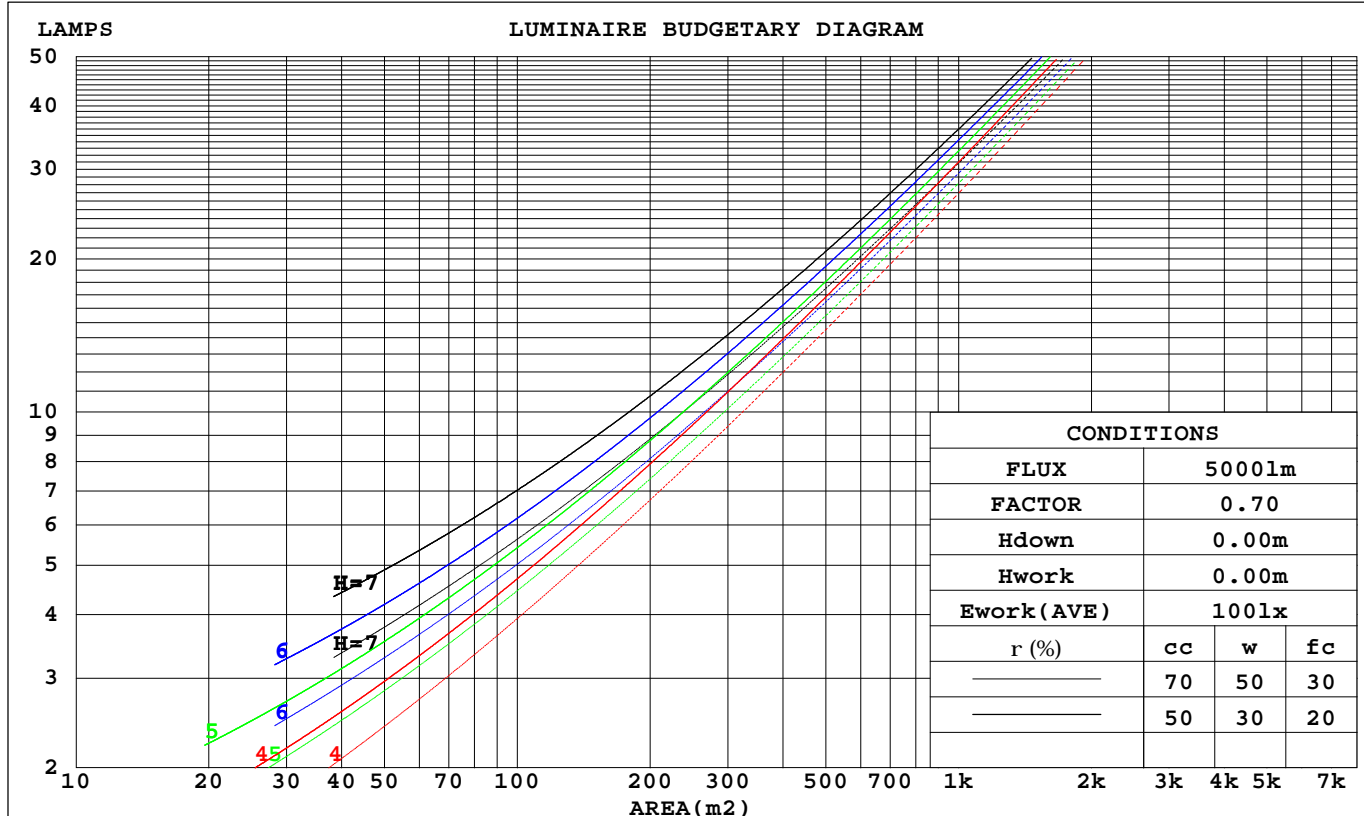
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME:								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:						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	.267	.152	.048	.260	.148	.047	.247	.142	.045	.235	.135	.043	.224	.130	.042															
2.0	.261	.143	.044	.255	.140	.043	.243	.135	.042	.233	.131	.041	.223	.126	.040															
3.0	.248	.132	.040	.243	.130	.039	.233	.126	.038	.224	.123	.038	.215	.119	.037															
4.0	.234	.122	.036	.230	.120	.036	.221	.117	.035	.212	.114	.034	.205	.111	.034															
5.0	.221	.112	.033	.216	.111	.032	.208	.108	.032	.201	.106	.032	.194	.104	.031															
6.0	.207	.104	.030	.204	.103	.030	.196	.101	.029	.190	.099	.029	.184	.097	.029															
7.0	.195	.096	.027	.192	.096	.027	.185	.094	.027	.179	.092	.027	.174	.090	.027															
8.0	.184	.090	.025	.181	.089	.025	.175	.087	.025	.170	.086	.025	.165	.084	.025															
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023															
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.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	.177	.157	.138	.152	.134	.119	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.160	.114	.077	.138	.099	.067	.094	.068	.047	.055	.040	.028	.018	.013	.009	
4.0	.153	.101	.061	.132	.087	.053	.090	.061	.037	.052	.036	.022	.017	.012	.007	
5.0	.147	.090	.049	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006	
6.0	.140	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08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:					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	26.1	27.6	26.4	27.8	28.0	23.5	25.0	23.8	25.2	25.4	
	3H	26.5	27.8	26.8	28.1	28.3	23.6	24.9	23.9	25.2	25.4
	4H	26.5	27.8	26.8	28.0	28.3	23.6	24.9	23.9	25.1	25.4
	6H	26.4	27.6	26.7	27.9	28.1	23.6	24.8	23.9	25.0	25.3
	8H	26.4	27.5	26.7	27.8	28.1	23.6	24.7	23.9	25.0	25.3
	12H	26.3	27.4	26.7	27.7	28.0	23.6	24.7	23.9	24.9	25.2
4H	2H	26.4	27.7	26.7	27.9	28.2	24.4	25.7	24.7	25.9	26.2
	3H	27.0	28.1	27.4	28.4	28.7	24.5	25.6	24.9	25.9	26.2
	4H	27.1	28.1	27.5	28.4	28.7	24.6	25.5	24.9	25.9	26.2
	6H	27.1	27.9	27.5	28.3	28.6	24.6	25.5	25.0	25.8	26.2
	8H	27.0	27.8	27.4	28.2	28.6	24.6	25.4	25.0	25.8	26.2
	12H	27.0	27.7	27.4	28.1	28.5	24.6	25.4	25.1	25.7	26.1
8H	4H	27.1	27.9	27.5	28.2	28.6	24.7	25.5	25.1	25.9	26.2
	6H	27.1	27.7	27.5	28.1	28.5	24.8	25.5	25.2	25.9	26.3
	8H	27.0	27.6	27.5	28.0	28.5	24.9	25.4	25.3	25.9	26.3
	12H	27.0	27.5	27.5	28.0	28.4	24.9	25.4	25.4	25.9	26.4
12H	4H	27.0	27.8	27.4	28.1	28.5	24.7	25.4	25.1	25.8	26.2
	6H	27.0	27.6	27.5	28.0	28.5	24.8	25.4	25.3	25.8	26.2
	8H	27.0	27.5	27.5	28.0	28.4	24.9	25.4	25.4	25.8	26.3
Variations with the observer position at spacings:											
S = 1.0H	+ 1.2 / - 0.9					+ 1.1 / - 1.5					
1.5H	+ 2.3 / - 4.1					+ 1.1 / - 1.2					
2.0H	+ 2.4 / - 6.0					+ 2.0 / - 2.2					

CIE Pub.117 Corrected 7056 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.8)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08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:	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) $k(RI) \times RCR = 5$									
$k = 0.60$	60	48	42	59	48	42	58	48	41	35
0.80	71	60	53	70	59	53	68	59	52	46
1.00	80	70	63	79	69	63	77	70	62	56
1.25	87	78	71	86	77	71	83	76	70	64
1.50	92	83	77	91	83	77	88	81	76	69
2.00	99	91	86	97	90	85	94	88	83	76
2.50	102	95	90	100	94	89	96	91	87	80
3.00	105	99	94	103	98	93	99	95	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	102	108	104	101	103	100	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

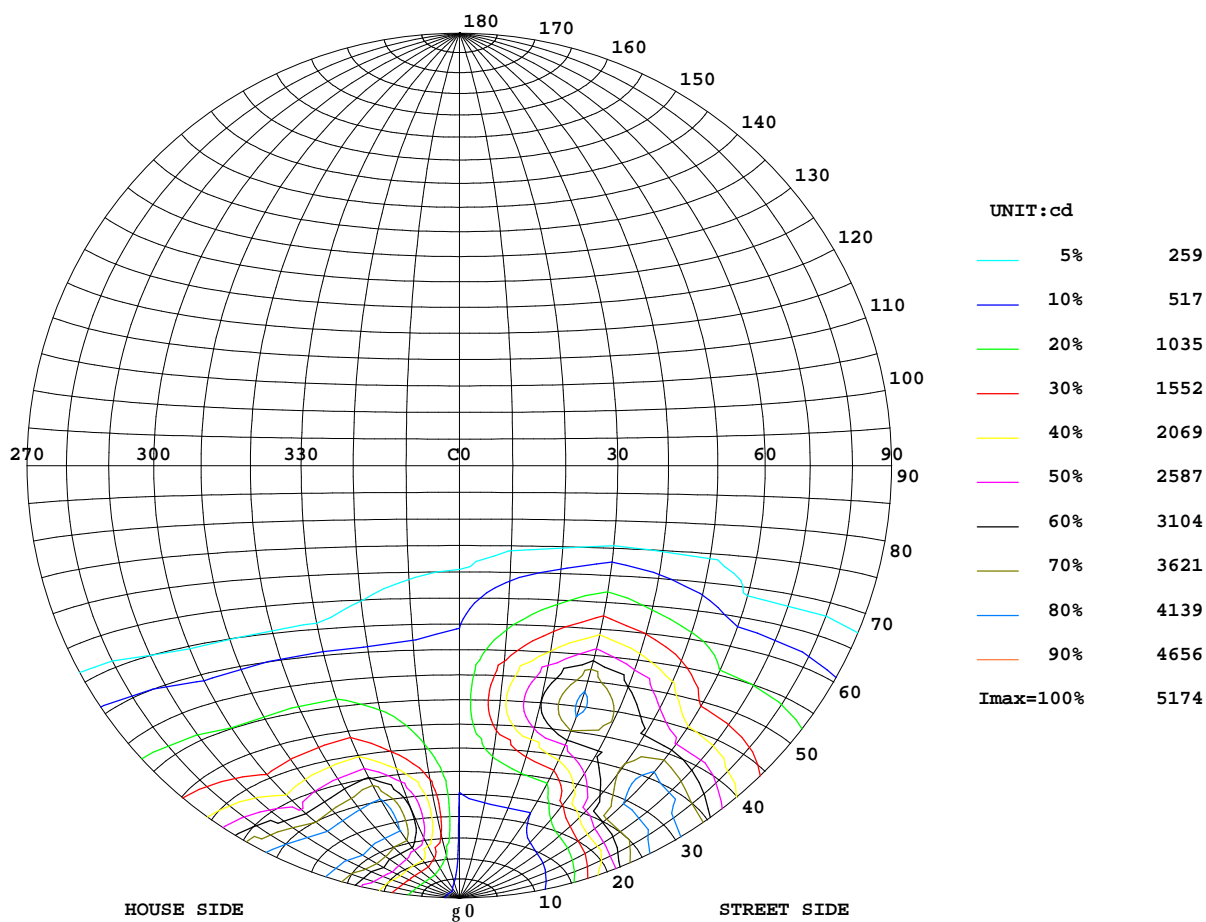
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ISOCANDELA DIAGRAM

Report number:

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



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月09日

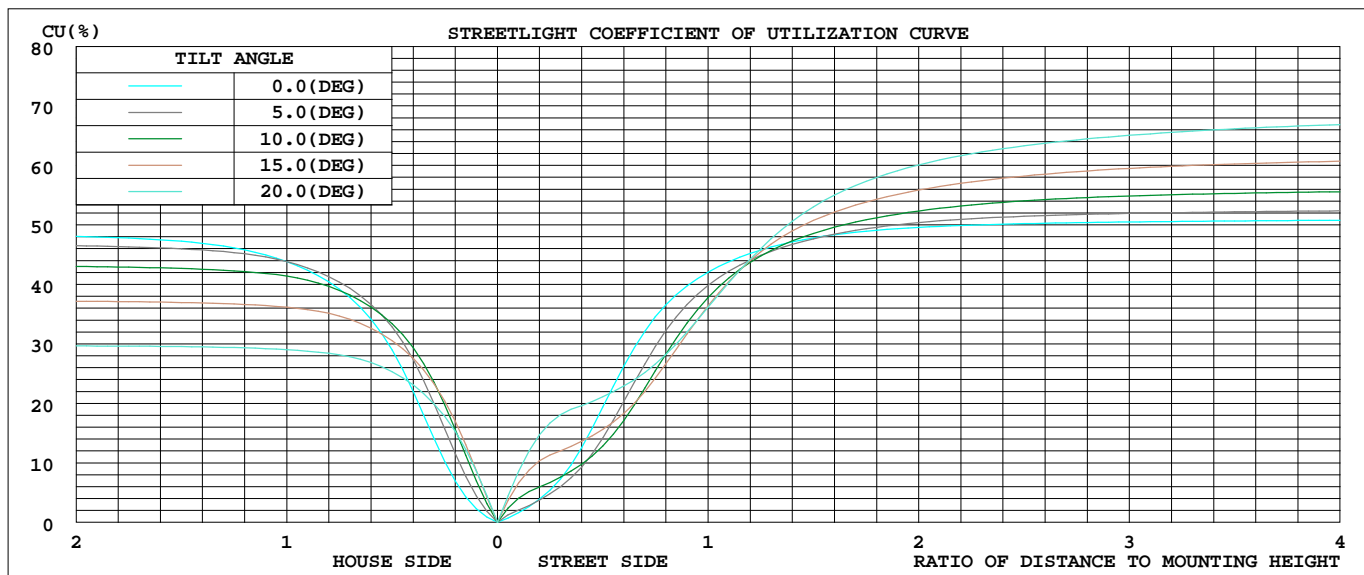
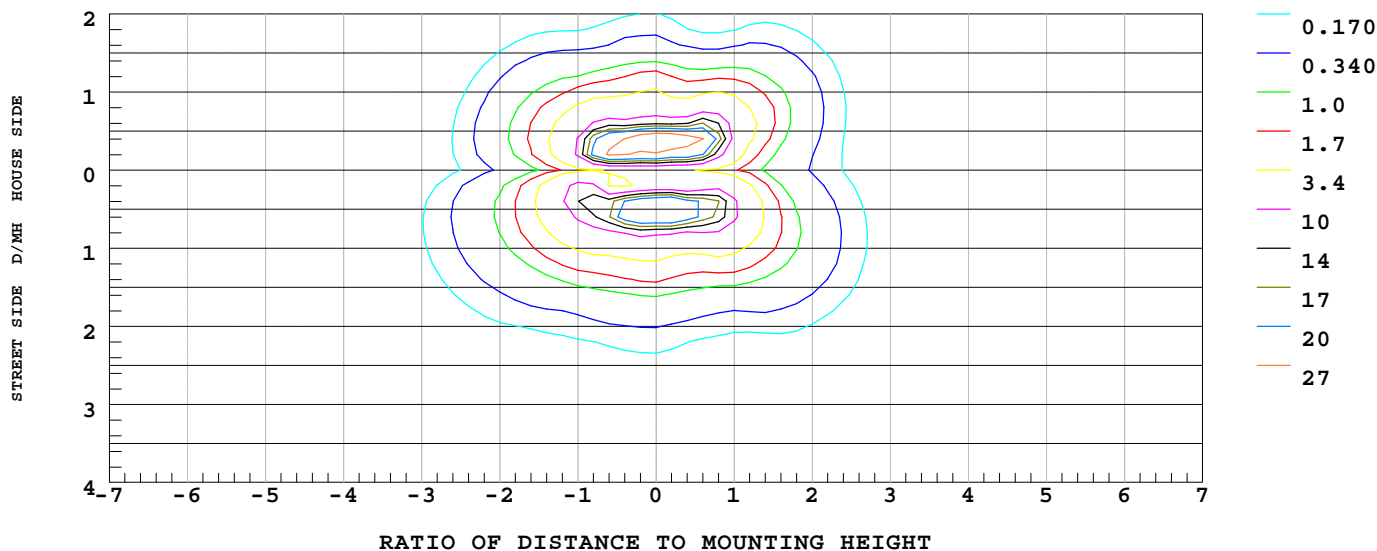
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

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

ILLUMINANCE AT MH=10 m, Enadir = 4.41 lx



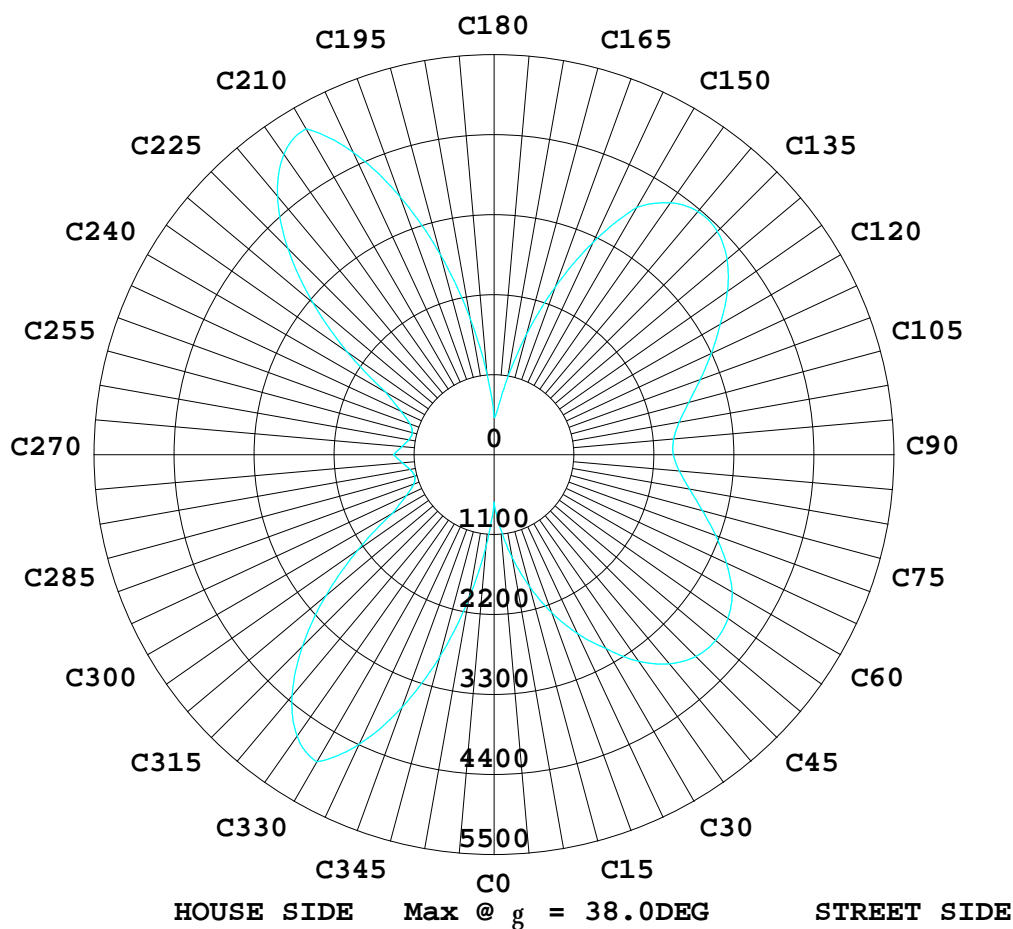
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Temperature:25.3DEG
Operators:
Test Date:2019年08月09日

Test Set: 8.0deg/s C-Gamma (TYPE C)
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ISOCANDELA DIAGRAM

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



Test System:HOPOO HPG1800
Temperature:25.3DEG
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Test Set: 8.0deg/s C-Gamma (TYPE C)
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