

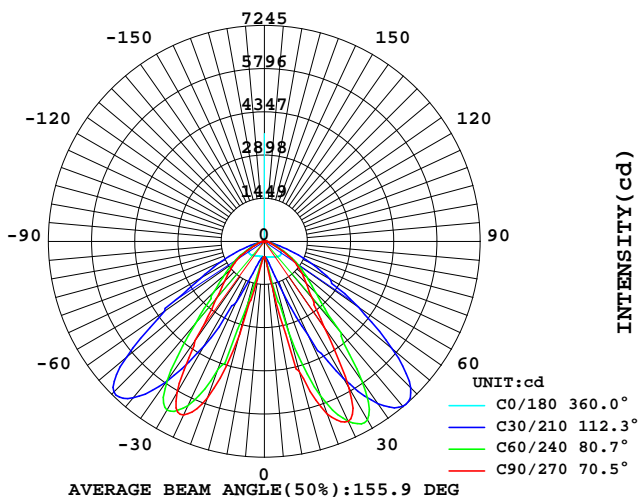
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

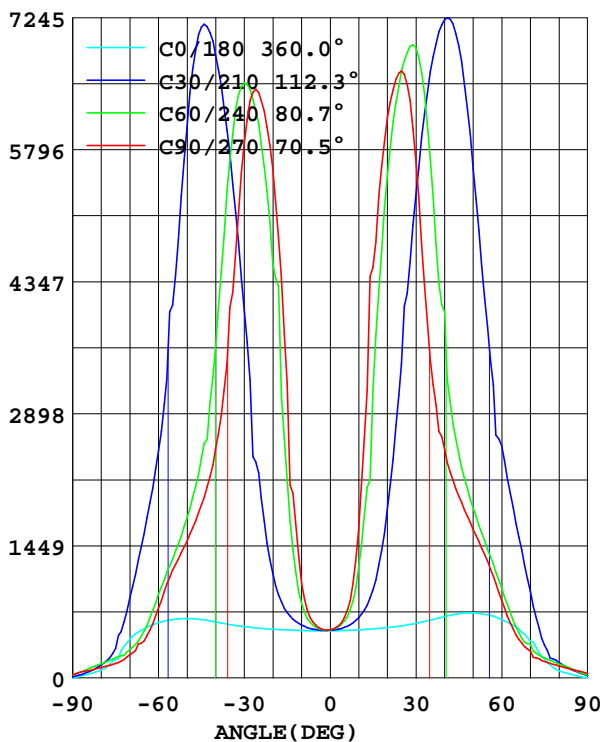
MANUFACTURER:		
Address:		
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:

DATA OF LAMP		I _{max} (cd)	7391	S/MH(C0/180)	1.79
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	2.30
NOMINAL POWER(W)	70	TOTAL FLUX(lm)	11366	Voltage(V)	218.6
RATED VOLTAGE(V)	218	EFFICIENCY(lm/W)	162.2	Current(A)	0.335
NOMINAL FLUX(lm)	11365.8	h up(%)	0.1	Power(W)	70.08
LAMPS QUANTITY	1	h down(%)	99.9	Power Factor(PF)	0.956
TEST VOLTAGE(V)	218.7	Effective Flux(lm)	10338.4	EEI	0.092

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



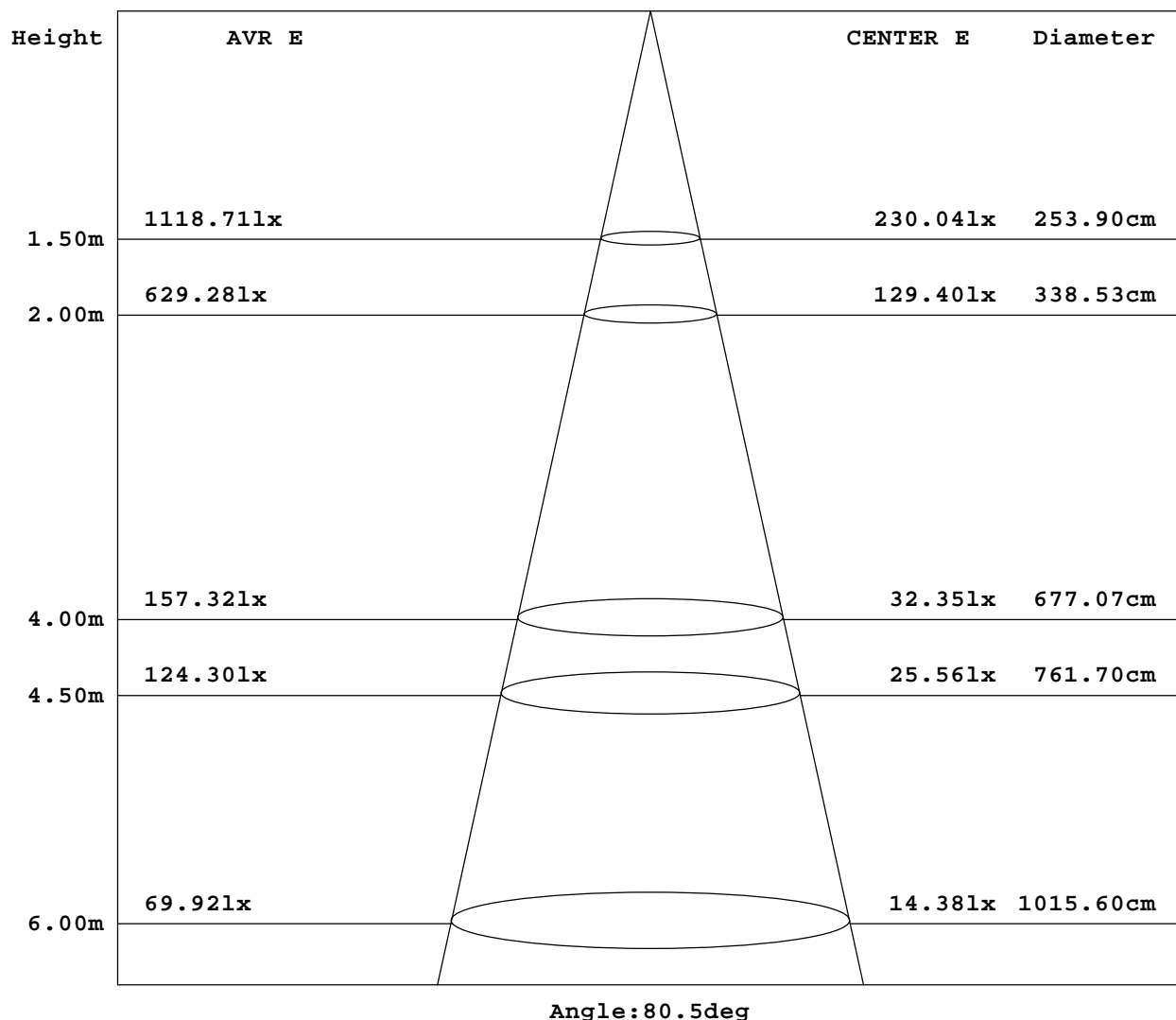
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月01日

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: 1438*65mm	SERIAL No.:



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 2019年08月01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: 1438*65mm	SERIAL No.:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	517.4	544.2	580.6	542.3	520.6	591.2	666.9	611.2	0- 5	13.08	13.08
10.0	521.2	698.7	1038	696.4	527.9	928.9	1613	1014	5- 10	49.69	62.78
15.0	527.0	1449	3230	1485	539.1	2066	4508	2296	10- 15	158.5	221.3
20.0	535.6	2849	5591	3045	552.4	3683	6146	4019	15- 20	446.9	668.2
25.0	547.3	4165	6420	4318	572.0	5053	6661	5368	20- 25	819.6	1488
30.0	563.2	5283	5873	5866	599.0	6106	5683	6192	25- 30	1196	2684
35.0	585.5	5719	4065	6198	634.8	6175	3492	5929	30- 35	1443	4127
40.0	614.8	5227	2508	5420	674.7	5619	2506	5229	35- 40	1466	5594
45.0	640.7	4777	1897	4665	705.5	4703	1997	4641	40- 45	1413	7006
50.0	651.7	3897	1499	3595	714.3	3728	1629	3472	45- 50	1300	8307
55.0	640.1	2696	1184	2687	692.9	2632	1284	2299	50- 55	1045	9351
60.0	607.7	1706	767.2	1619	644.7	1772	854.4	1538	55- 60	760.4	10112
65.0	540.8	1048	404.5	1020	556.9	1128	470.8	1001	60- 65	531.4	10643
70.0	421.6	590.7	255.8	547.1	402.8	656.8	292.1	552.7	65- 70	343.1	10987
75.0	203.5	273.0	158.8	249.4	206.0	289.6	180.6	263.4	70- 75	187.7	11174
80.0	88.28	149.0	115.2	141.8	79.44	163.1	133.2	157.4	75- 80	96.45	11271
85.0	38.55	76.18	78.60	72.12	33.34	87.43	89.61	83.86	80- 85	56.15	11327
90.0	0	24.69	32.37	23.66	0.315	29.11	46.53	30.92	85- 90	26.39	11353
95.0	0	3.847	12.89	4.331	0	2.674	17.73	6.122	90- 95	7.097	11360
100.0	0	0	6.969	0	0	0.157	10.47	0.944	95-100	1.487	11362
105.0	0	0	0	0	0	1.185	5.396	1.730	100-105	0.654	11362
110.0	0	0	0	0	0.920	2.093	0	3.182	105-110	0.460	11363
115.0	2.613	1.125	0	0.278	4.670	4.670	0	5.336	110-115	0.803	11364
120.0	5.275	3.702	0	2.855	8.663	8.058	2.250	7.998	115-120	1.785	11366
125.0	0	0	0	0	0	0	0	0	120-125	0.242	11366
130.0	0	0	0	0	0	0	0	0	125-130	0	11366
135.0	0	0	0	0	0	0	0	0	130-135	0	11366
140.0	0	0	0	0	0	0	0	0	135-140	0	11366
145.0	0	0	0	0	0	0	0	0	140-145	0	11366
150.0	0	0	0	0	0	0	0	0	145-150	0	11366
155.0	0	0	0	0	0	0	0	0	150-155	0	11366
160.0	0	0	0	0	0	0	0	0	155-160	0	11366
165.0	0	0	0	0	0	0	0	0	160-165	0	11366
170.0	0	0	0	0	0	0	0	0	165-170	0	11366
175.0	0	0	0	0	0	0	0	0	170-175	0	11366
180.0	0	0	0	0	0	0	0	0	175-180	0	11366
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月01日

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

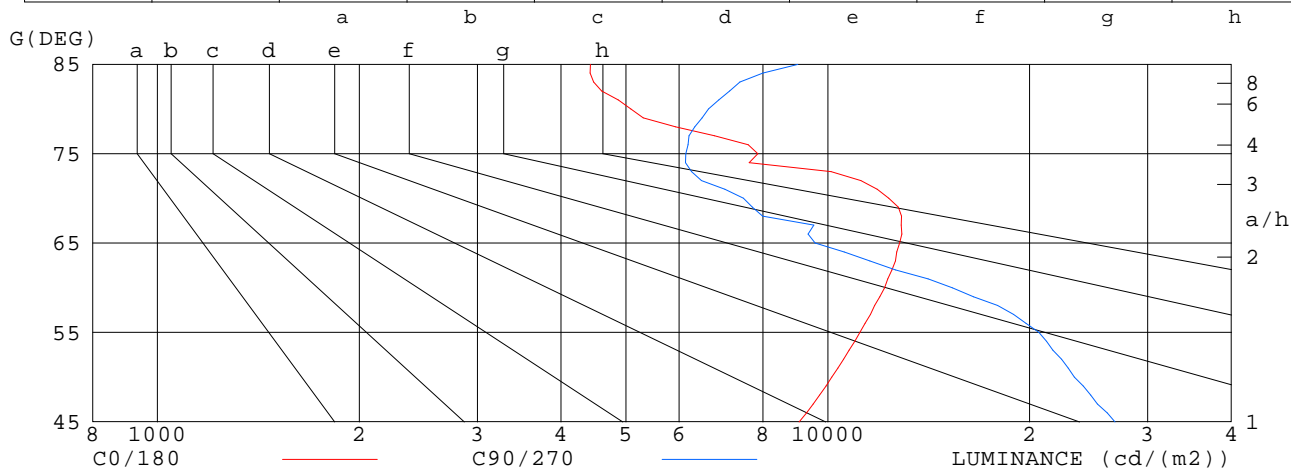
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 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	4423	9019
80	5084	6638
75	7866	6137
70	12328	7481
65	12797	9573
60	12155	15344
55	11161	20639
50	10140	23315
45	9062	26833

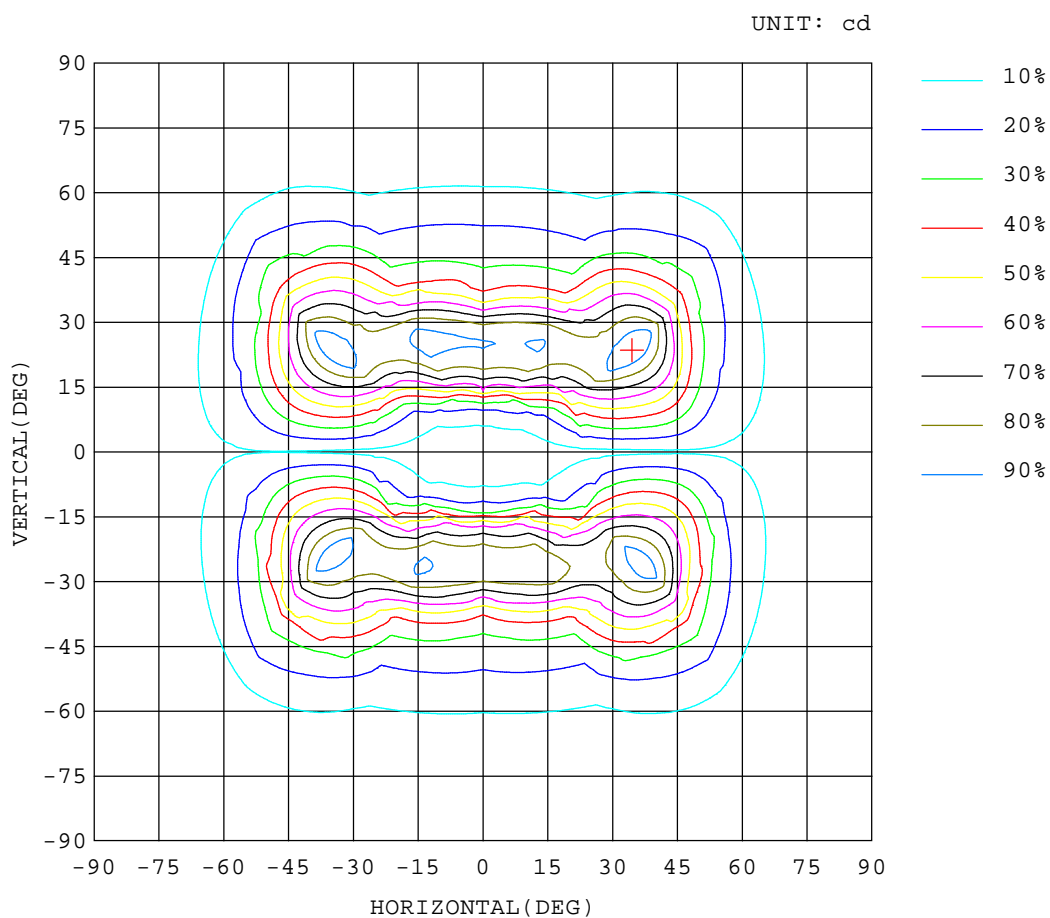
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月01日

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: 1438*65mm	SERIAL No.:



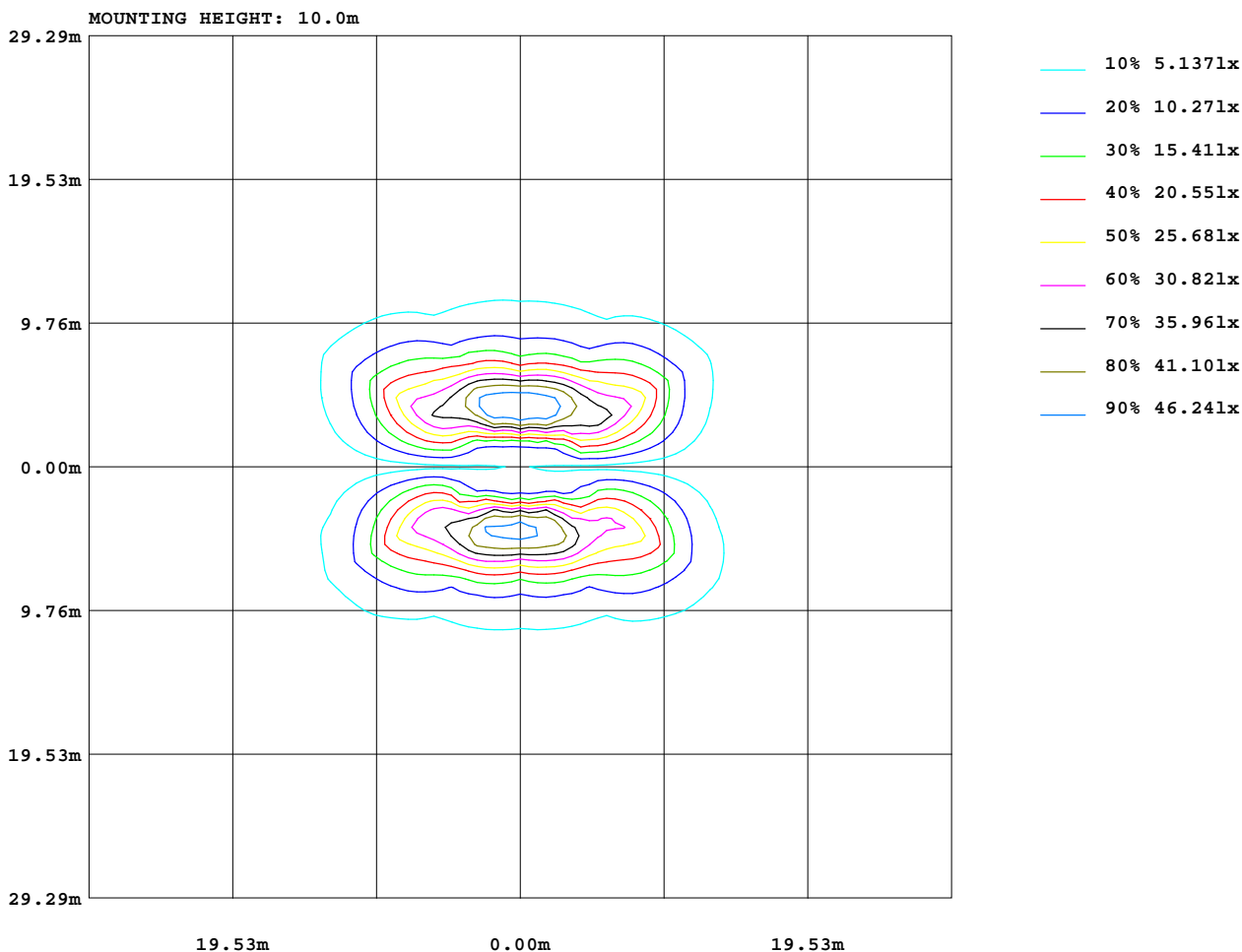
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月01日

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: 1438*65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月01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:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1438*65mm	SERIAL No.:

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.03	0.19	0.55	1.02	1.50	1.99	2.38	2.63	2.74	2.76	2.68	2.47	2.03	1.46	0.95	0.52	0.19	0.03	26.1	0.00		
90																						
80																						
70																						
60																						
50																						
40																						
30																						

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月01日

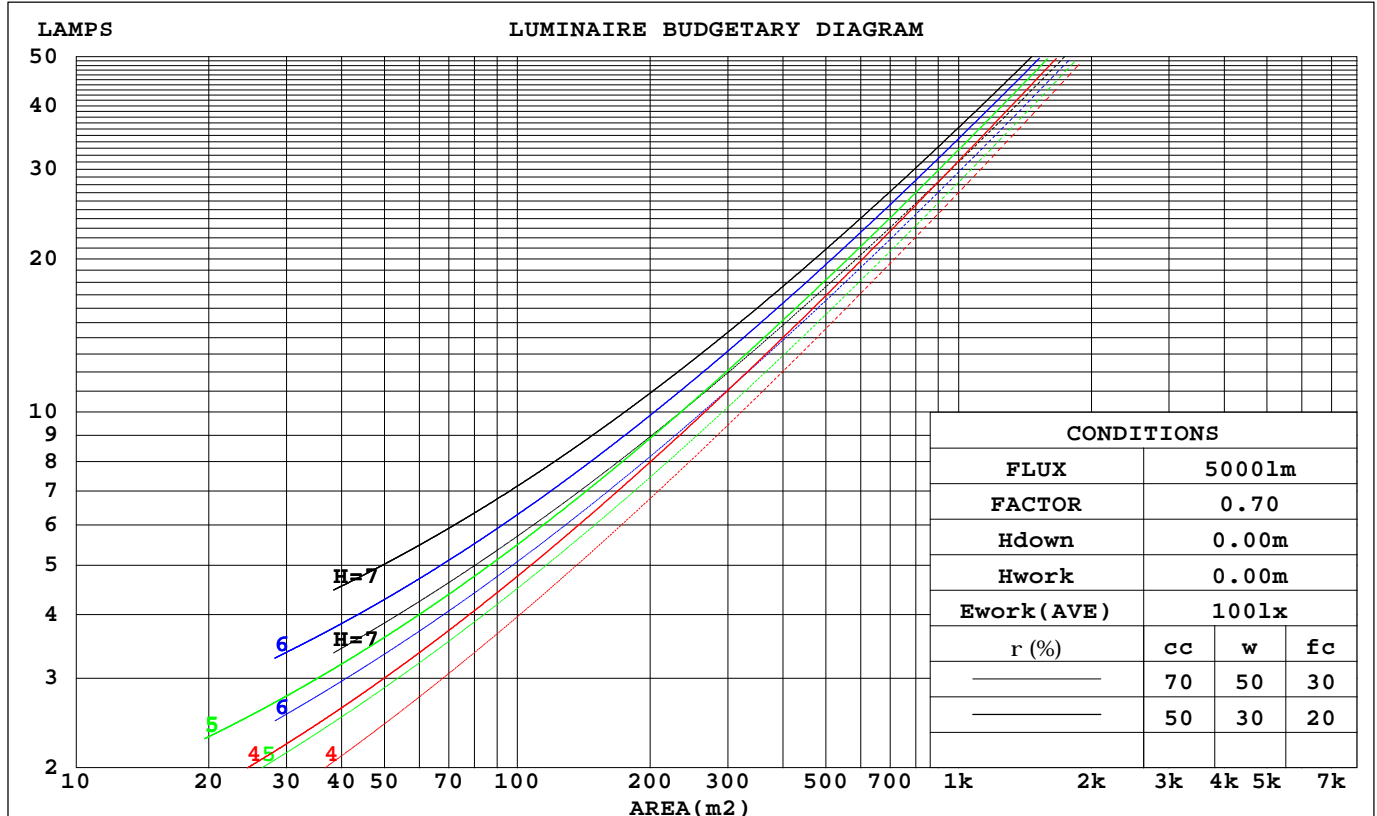
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME:								TYPE:				WEIGHT:			
SPECIFICATION:								DIMENSION: 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:2019年08月01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: 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	.272	.155	.049	.265	.151	.048	.252	.144	.046	.240	.138	.044	.229	.132	.043															
2.0	.265	.145	.045	.259	.142	.044	.247	.137	.043	.236	.133	.042	.227	.128	.040															
3.0	.251	.134	.040	.246	.132	.040	.236	.128	.039	.226	.124	.038	.218	.121	.037															
4.0	.237	.123	.036	.232	.122	.036	.223	.118	.035	.215	.115	.035	.207	.112	.034															
5.0	.223	.114	.033	.219	.112	.033	.210	.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	.095	.027	.181	.093	.027	.175	.091	.027															
8.0	.185	.091	.025	.182	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025															
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.157	.080	.023															
10.0	.165	.079	.022	.163	.079	.022	.158	.077	.022	.154	.076	.022	.149	.075	.022															

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	.164	.164	.164	.112	.112	.112	.064	.064	.064	.020	.020	.020	
1.0	.179	.157	.138	.153	.135	.119	.104	.093	.082	.060	.054	.048	.019	.017	.015	
2.0	.169	.133	.102	.145	.114	.088	.099	.079	.062	.057	.046	.036	.018	.015	.012	
3.0	.162	.115	.078	.139	.099	.067	.095	.069	.047	.055	.040	.028	.018	.013	.009	
4.0	.155	.102	.061	.133	.088	.053	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.148	.091	.049	.127	.079	.043	.088	.055	.030	.051	.032	.018	.016	.011	.006	
6.0	.142	.083	.041	.122	.072	.035	.084	.050	.025	.049	.030	.015	.016	.010	.005	
7.0	.136	.076	.034	.117	.066	.030	.081	.046	.021	.047	.027	.013	.015	.009	.004	
8.0	.130	.070	.030	.112	.061	.026	.077	.043	.018	.045	.025	.011	.015	.008	.004	
9.0	.124	.066	.026	.107	.057	.023	.074	.040	.016	.043	.024	.010	.014	.008	.003	
10.0	.119	.061	.023	.102	.053	.020	.071	.037	.014	.041	.022	.009	.013	.007	.003	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月01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: 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	2H	27.0	28.5	27.3	28.7	28.9	23.7	25.2	24.0	25.4	25.6
	3H	27.3	28.6	27.6	28.9	29.1	23.7	25.1	24.0	25.3	25.6
	4H	27.3	28.5	27.6	28.8	29.1	23.7	25.0	24.0	25.3	25.5
	6H	27.2	28.4	27.5	28.7	28.9	23.7	24.9	24.1	25.2	25.5
	8H	27.2	28.3	27.5	28.6	28.9	23.7	24.9	24.1	25.2	25.5
	12H	27.1	28.2	27.5	28.5	28.8	23.7	24.9	24.1	25.1	25.4
4H	2H	27.2	28.5	27.5	28.7	29.0	24.6	25.9	24.9	26.1	26.4
	3H	27.6	28.7	28.0	29.0	29.3	24.7	25.8	25.0	26.1	26.4
	4H	27.7	28.7	28.0	29.0	29.3	24.7	25.7	25.1	26.0	26.4
	6H	27.6	28.5	28.0	28.9	29.2	24.8	25.6	25.2	26.0	26.4
	8H	27.6	28.4	28.0	28.8	29.2	24.8	25.6	25.2	26.0	26.4
	12H	27.6	28.3	28.0	28.7	29.1	24.8	25.6	25.3	26.0	26.4
8H	4H	27.6	28.4	28.0	28.8	29.2	24.8	25.6	25.2	26.0	26.4
	6H	27.6	28.3	28.0	28.7	29.1	24.9	25.6	25.4	26.0	26.4
	8H	27.6	28.2	28.0	28.6	29.0	25.0	25.6	25.5	26.0	26.5
	12H	27.6	28.1	28.0	28.5	29.0	25.1	25.6	25.6	26.1	26.5
12H	4H	27.6	28.3	28.0	28.7	29.1	24.8	25.5	25.2	25.9	26.3
	6H	27.6	28.2	28.0	28.6	29.0	24.9	25.5	25.4	25.9	26.4
	8H	27.6	28.1	28.1	28.5	29.0	25.0	25.5	25.5	26.0	26.5
Variations with the observer position at spacings:											
S = 1.0H	+ 1.8 / - 1.2					+ 1.4 / - 1.7					
1.5H	+ 2.7 / - 5.1					+ 1.8 / - 1.2					
2.0H	+ 3.2 / - 6.9					+ 2.5 / - 2.4					

CIE Pub.117 Corrected 11366 lm Total Lamp Luminous Flux.(8log(F/F0) = 8.4)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月01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: 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) $k(RI) \times RCR = 5$									
$k = 0.60$	59	48	41	59	48	41	57	47	41	35
0.80	70	59	52	69	59	52	68	58	52	45
1.00	80	69	63	78	69	62	76	70	62	55
1.25	87	77	71	85	77	70	83	75	70	63
1.50	92	83	77	90	82	76	87	80	75	68
2.00	98	91	85	97	90	84	93	87	83	76
2.50	102	95	90	100	93	89	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	101	98	102	98	95	86
5.00	110	106	102	108	104	101	103	100	97	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

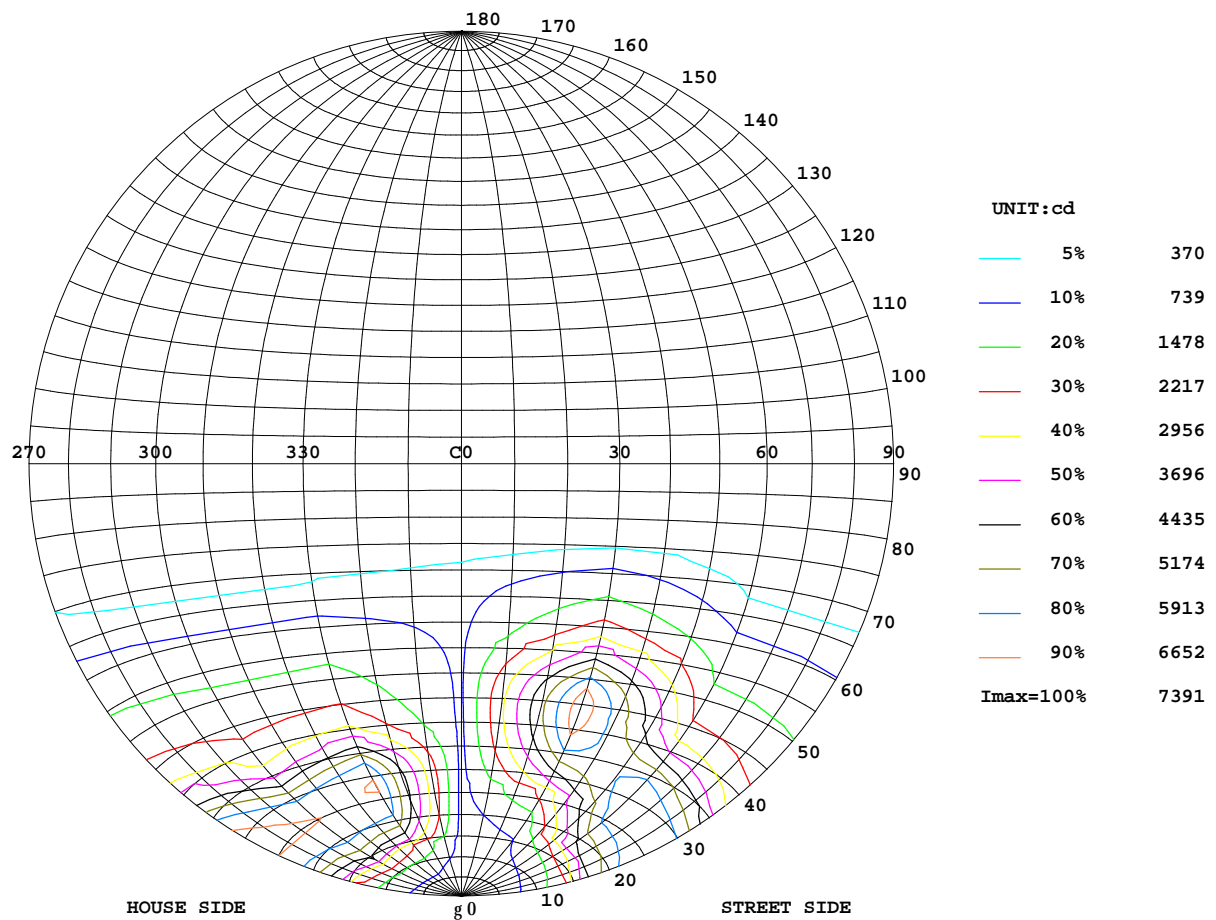
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 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月01日

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: 1438*65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月01日

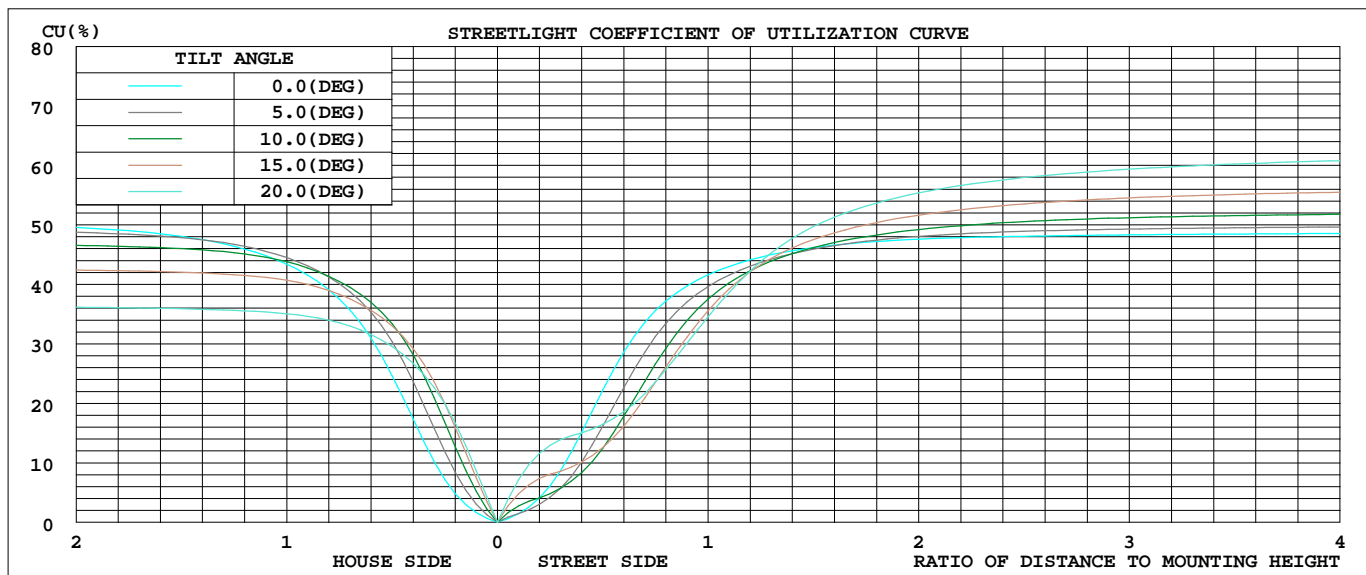
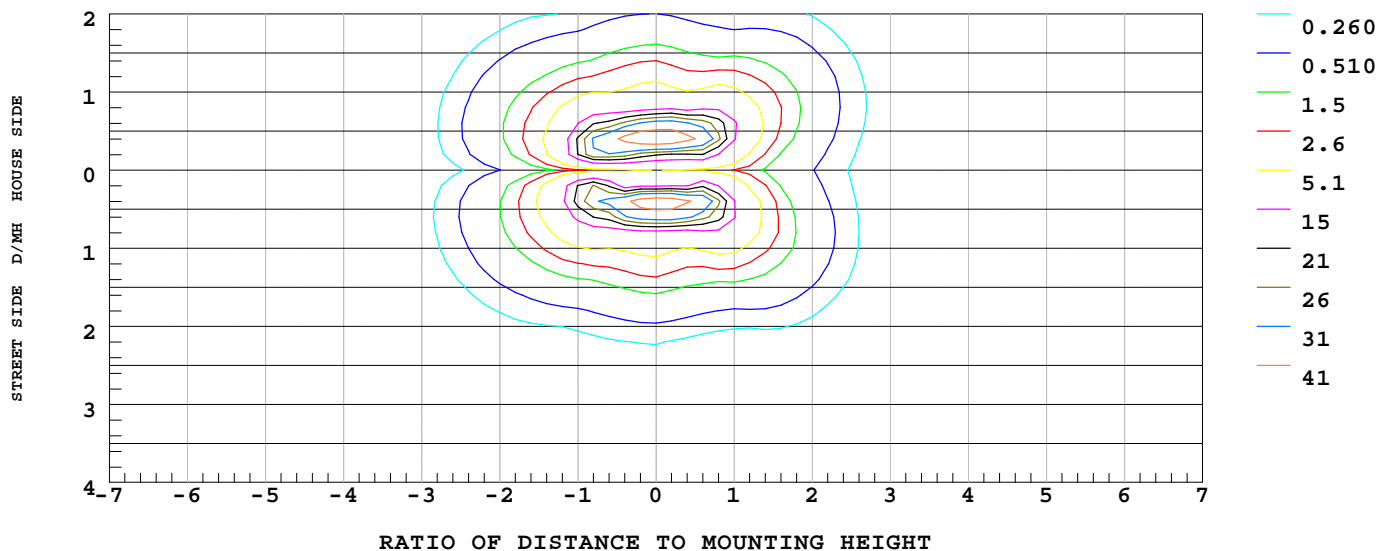
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

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

ILLUMINANCE AT MH=10 m,Enadir = 5.18 lx



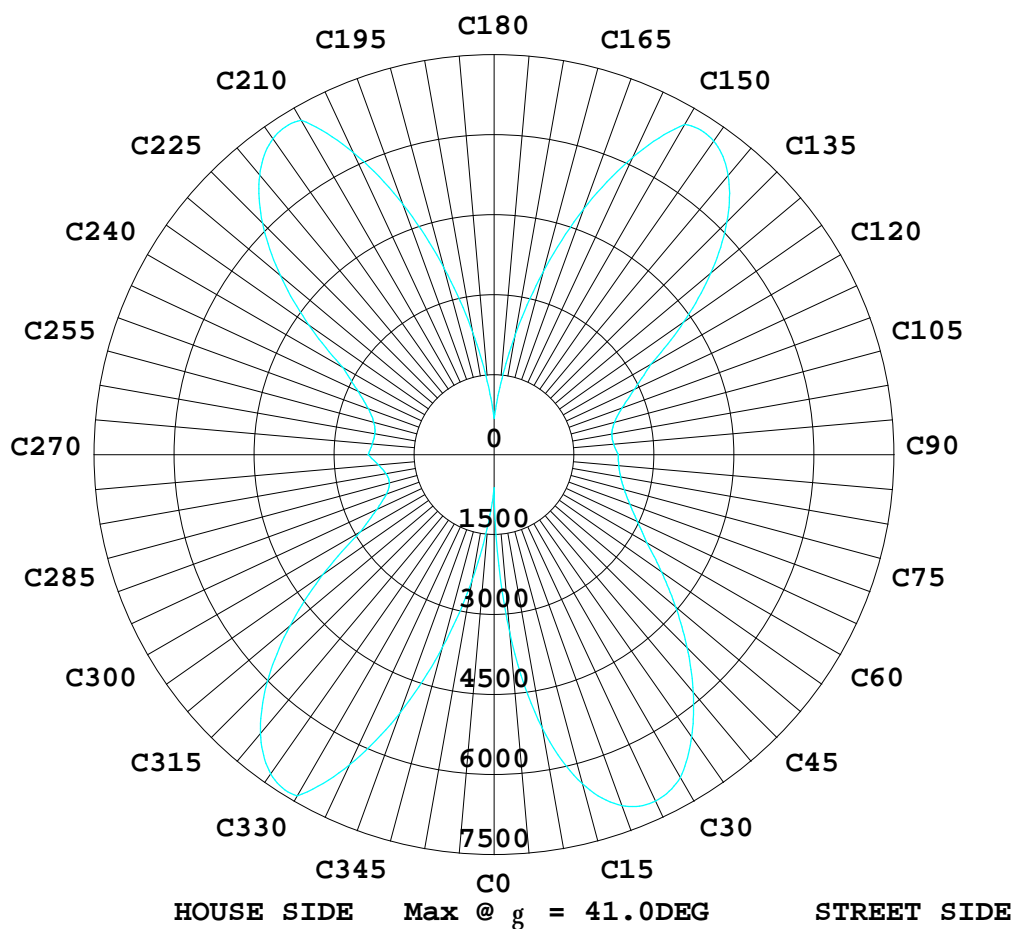
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月01日

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: 1438*65mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月01日

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