

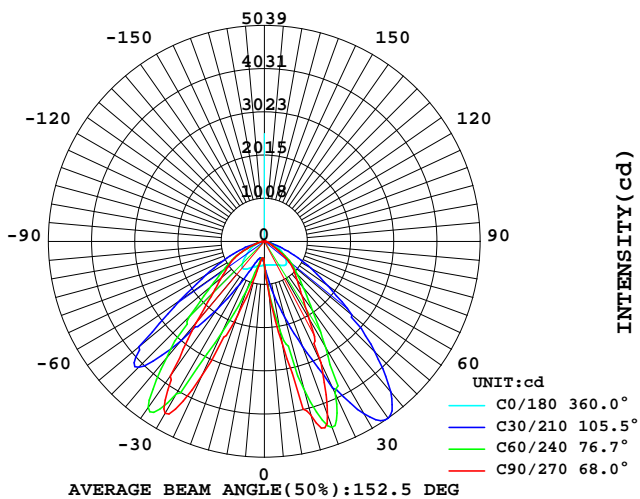
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

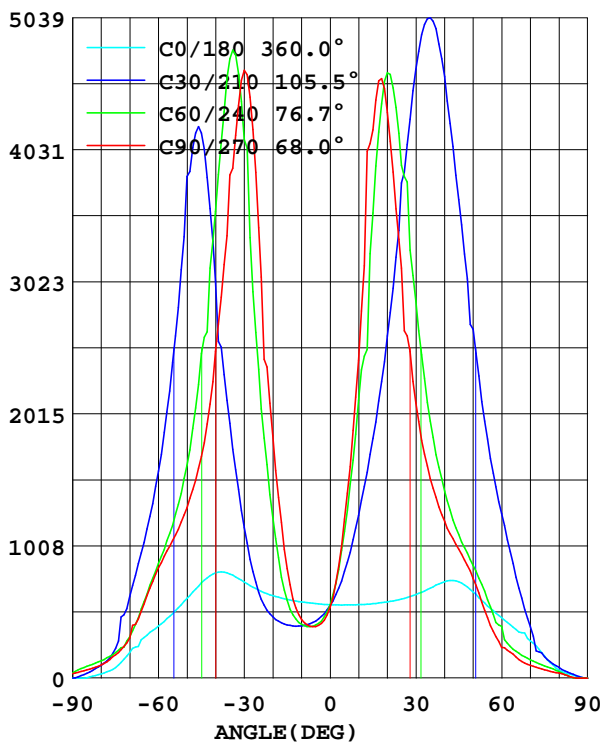
MANUFACTURER:		
Address:		
NAME: DS25°50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:

DATA OF LAMP		I _{max} (cd)	5180	S/MH(C0/180)	1.77
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	2.28
NOMINAL POWER(W)	48	TOTAL FLUX(lm)	7062.3	Voltage(V)	218.6
RATED VOLTAGE(V)	218	EFFICIENCY(lm/W)	144.4	Current(A)	0.233
NOMINAL FLUX(lm)	7062.4	h up(%)	0.0	Power(W)	48.91
LAMPS QUANTITY	1	h down(%)	100.0	Power Factor(PF)	0.958
TEST VOLTAGE(V)	218.7	Effective Flux(lm)	6574.7	EEI	0.101

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



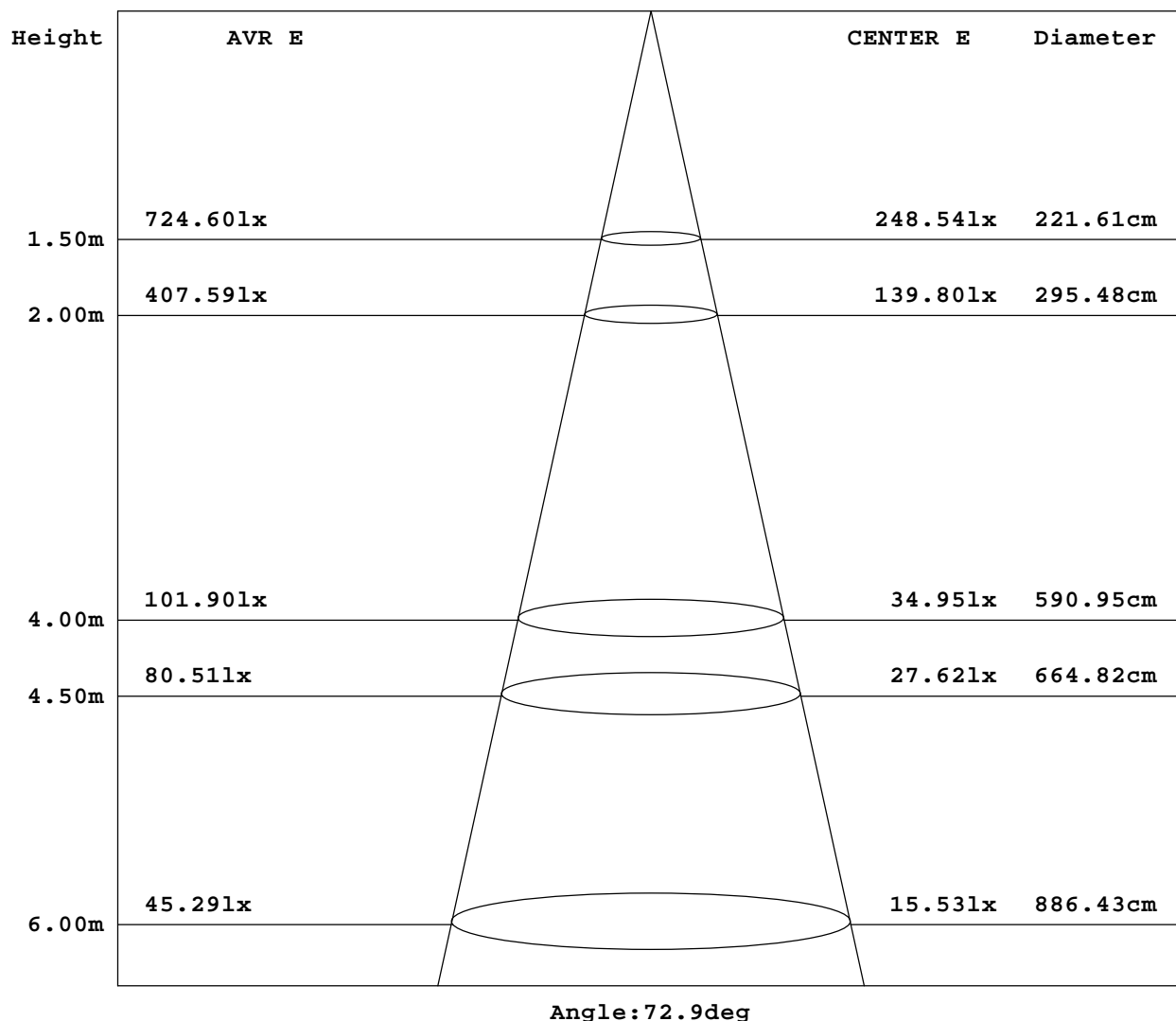
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月13日

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: DS25°50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 2019年08月13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: DS25°50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	566.8	419.0	392.8	406.3	557.2	965.1	1212	918.6	0- 5	14.61	14.61
10.0	579.0	403.0	445.2	402.7	559.8	1678	2423	1639	5- 10	61.01	75.63
15.0	600.5	498.5	832.9	517.7	566.9	2687	4182	2681	10- 15	153.7	229.3
20.0	628.3	847.1	1849	889.9	580.3	3614	4314	3664	15- 20	310.4	539.7
25.0	670.1	1505	3435	1568	602.6	3844	3127	3877	20- 25	478.7	1019
30.0	731.2	2627	4636	2629	635.6	3761	2099	3862	25- 30	672.7	1691
35.0	792.6	3334	3838	3303	685.7	3499	1519	3491	30- 35	843.4	2535
40.0	801.6	3294	2493	3258	733.6	3006	1196	2811	35- 40	887.1	3422
45.0	725.8	3318	1690	3479	734.7	2373	982.9	2097	40- 45	869.4	4291
50.0	606.8	2725	1299	3209	656.7	1760	758.1	1471	45- 50	812.9	5104
55.0	489.0	1786	1050	2332	548.3	1211	460.1	956.5	50- 55	661.4	5766
60.0	397.5	1228	840.9	1598	459.8	823.9	234.2	614.8	55- 60	485.4	6251
65.0	309.7	808.4	564.4	1054	368.8	485.5	159.6	330.6	60- 65	345.2	6597
70.0	193.9	468.4	304.2	689.7	281.6	264.2	95.54	160.3	65- 70	225.9	6823
75.0	80.53	211.0	177.8	358.1	167.7	127.3	62.99	89.67	70- 75	128.8	6951
80.0	31.65	113.9	98.32	153.5	60.20	65.29	37.58	36.55	75- 80	64.91	7016
85.0	1.524	62.44	62.02	87.25	20.03	14.65	3.097	2.456	80- 85	30.39	7047
90.0	0	19.81	33.46	38.55	0	0	0	0	85- 90	12.31	7059
95.0	0	0	2.613	4.210	0	0	0	0	90- 95	3.314	7062
100.0	0	0	0	0	0	0	0	0	95-100	0.072	7062
105.0	0	0	0	0	0	0	0	0	100-105	0	7062
110.0	0	0	0	0	0	0	0	0	105-110	0	7062
115.0	0	0	0	0	0	0	0	0	110-115	0	7062
120.0	0	0	0	0	0	0	0	0	115-120	0	7062
125.0	0	0	0	0	0	0	0	0	120-125	0	7062
130.0	0	0	0	0	0	0	0	0	125-130	0	7062
135.0	0	0	0	0	0	0	0	0	130-135	0	7062
140.0	0	0	0	0	0	0	0	0	135-140	0	7062
145.0	0	0	0	0	0	0	0	0	140-145	0	7062
150.0	0	0	0	0	0	0	0	0	145-150	0	7062
155.0	0	0	0	0	0	0	0	0	150-155	0	7062
160.0	0	0	0	0	0	0	0	0	155-160	0	7062
165.0	0	0	0	0	0	0	0	0	160-165	0	7062
170.0	0	0	0	0	0	0	0	0	165-170	0	7062
175.0	0	0	0	0	0	0	0	0	170-175	0	7062
180.0	0	0	0	0	0	0	0	0	175-180	0	7062
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月13日

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

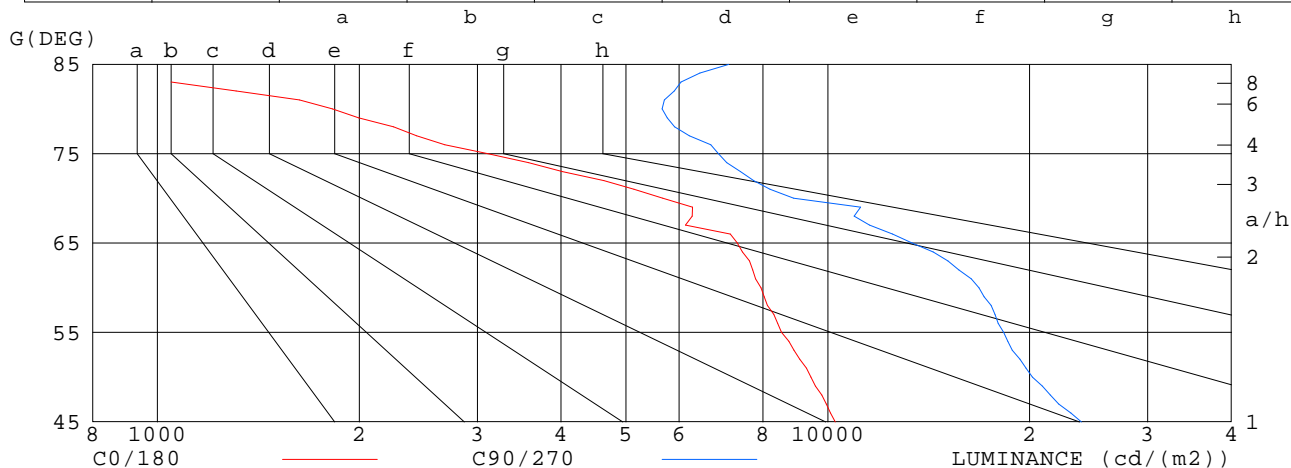
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: DS25°50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	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	175	7117
80	1823	5662
75	3112	6870
70	5670	8896
65	7328	13355
60	7951	16818
55	8526	18302
50	9441	20203
45	10265	23901

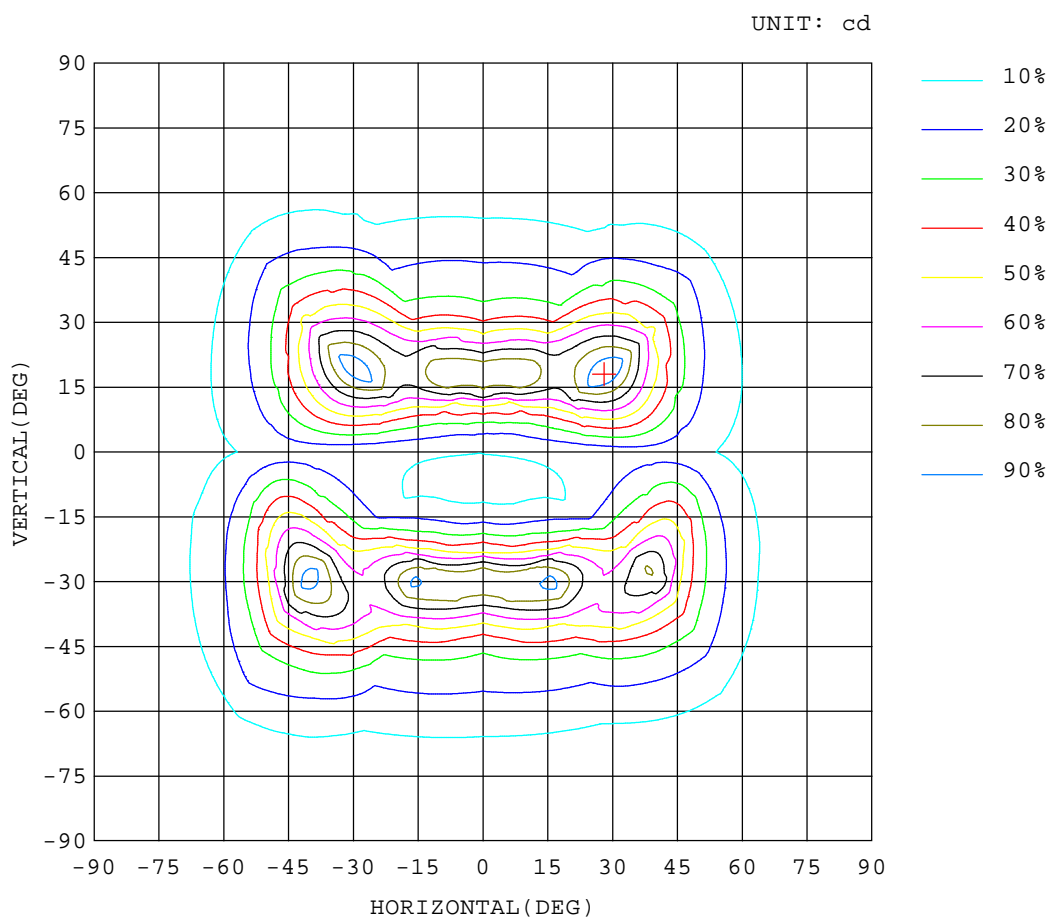
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月13日

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: DS25°50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:



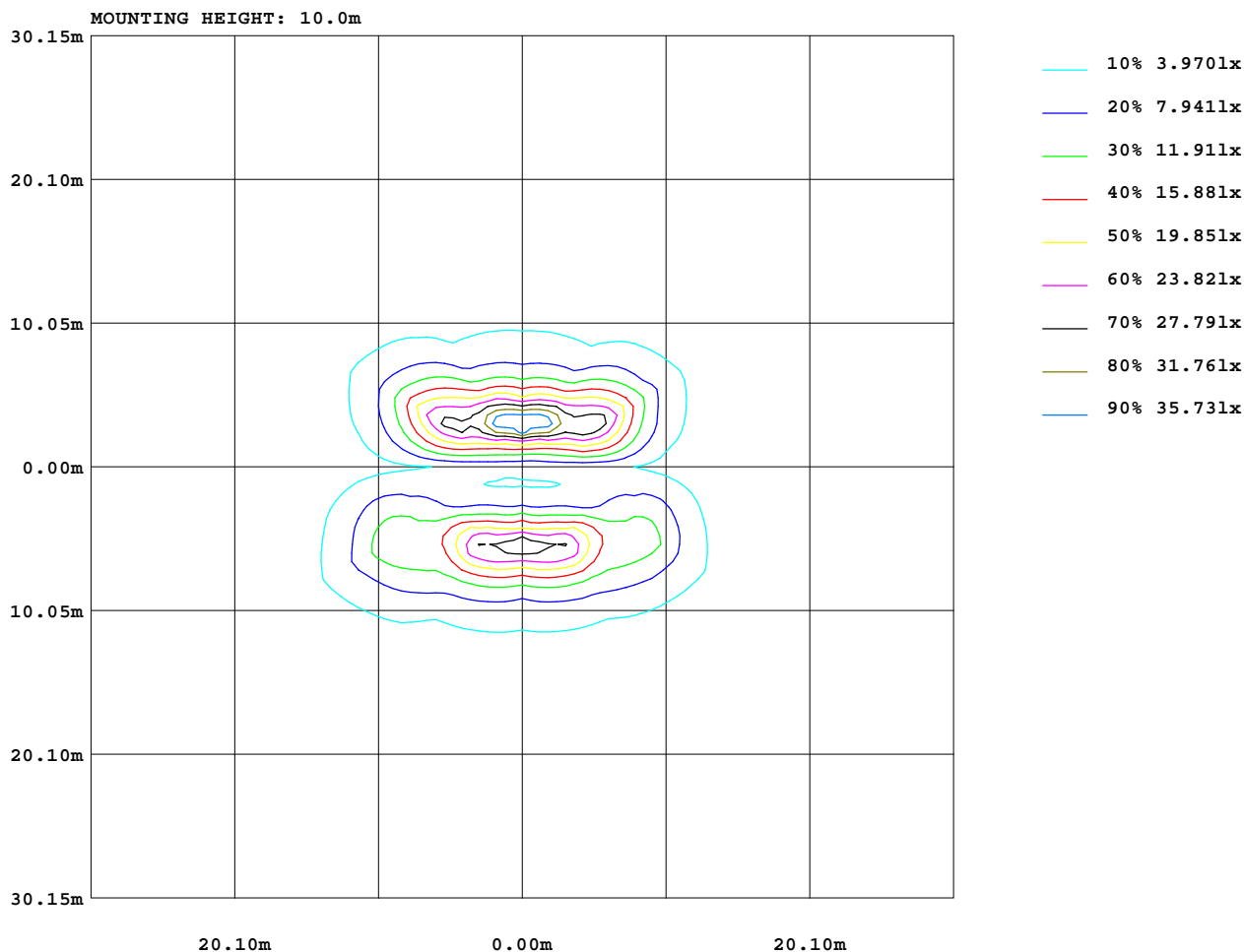
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月13日

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: DS25°50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月13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: DS25°50W										TYPE:					WEIGHT:				
SPECIFICATION:										DIMENSION: 578*188mm					SERIAL No.:				

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a
	0.00	0.02	0.09	0.18	0.22	0.21	0.23	0.30	0.33	0.30	0.22	0.13	0.07	0.05	0.02	0.00	0.00	0.00	0.00	2.36	0.00
90	0.01	0.13	0.48	1.02	1.55	1.93	2.11	2.20	2.07	1.99	1.97	1.76	1.40	0.94	0.50	0.17	0.01	0.00	0.00	20.2	0.00
80	0.02	0.28	1.06	2.44	4.12	5.22	4.71	5.12	5.16	4.99	4.71	4.11	3.74	2.67	1.51	0.56	0.10	0.00	0.00	50.5	0.00
70	0.04	0.46	1.89	5.77	11.4	13.9	12.4	14.1	14.8	14.3	12.7	10.3	10.5	7.33	3.21	1.09	0.22	0.00	0.00	135	59.4
60	0.05	0.68	3.17	11.5	23.5	30.9	29.2	28.4	30.2	29.7	27.1	25.9	24.8	17.7	7.27	1.82	0.35	0.01	0.00	293	280
50	0.07	0.93	4.69	15.8	38.8	59.6	59.4	48.4	50.1	49.4	46.5	54.6	50.3	30.4	11.7	2.82	0.48	0.02	0.00	524	514
40	0.08	1.15	5.65	17.5	47.1	95.8	103	95.4	100	99.4	94.1	103	86.7	38.7	13.8	3.81	0.62	0.03	0.00	907	897
30	0.08	1.32	5.82	16.3	42.1	86.5	110	105	116	116	107	116	85.1	36.5	13.3	4.28	0.73	0.03	0.00	962	952
	0.09	1.41	5.29	12.3	25.9	42.0	47.4	42.2	39.6	38.7	43.1	51.0	44.1	24.0	10.6	4.16	0.79	0.04	0.00	433	419
	0.09	1.56	6.04	15.8	28.3	25.0	18.4	14.4	13.0	13.2	14.7	19.3	26.8	26.7	12.7	4.72	0.87	0.04	0.00	242	191
	0.09	1.73	7.92	25.6	55.2	48.3	33.7	30.6	27.7	27.0	29.2	33.0	48.5	48.5	18.9	5.88	0.95	0.04	0.00	443	429
	0.09	1.70	8.83	29.4	78.3	87.3	81.6	99.9	97.7	97.0	99.3	81.9	84.0	61.7	21.1	6.25	0.91	0.04	0.00	938	931
-30	0.08	1.46	8.64	27.2	73.0	95.1	89.2	112	115	115	113	88.5	81.6	51.9	19.5	5.70	0.72	0.03	0.00	997	991
-40	0.07	1.07	7.15	22.0	43.9	59.6	55.9	57.0	57.1	57.1	56.9	51.9	46.2	31.7	15.4	4.25	0.55	0.02	0.00	568	561
-50	0.06	0.70	4.57	15.1	24.2	30.0	29.2	31.7	32.8	32.5	30.9	27.0	24.1	17.6	9.56	2.33	0.39	0.02	0.00	313	302
-60	0.04	0.47	2.07	6.96	11.7	13.9	14.5	16.8	17.7	17.2	15.5	12.4	10.4	7.59	3.68	1.16	0.25	0.01	0.00	153	86.0
-70	0.03	0.29	1.01	2.29	3.93	5.13	5.39	5.79	5.76	5.59	5.34	4.80	3.94	2.67	1.47	0.57	0.11	0.01	0.00	54.1	0.00
-80	0.01	0.13	0.43	0.93	1.56	2.24	2.56	2.41	2.10	2.02	2.17	2.19	1.78	1.06	0.46	0.12	0.02	0.00	0.00	22.2	0.00
-90																					
	-90	-80	-70	-60	-50	-40	-30	-20													
	HORIZONTAL (DEG)																				
Φ t	1.01	15.5	74.8	229	515	703	699	712	728	722	705	688	635	408	165	49.7	8.07	0.34	0.00	7062	
Φ a	0.00	0.00	35.6	209	496	680	672	675	686	682	669	660	611	388	140	10.3	0.00	0.00	0.00		6575

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月13日

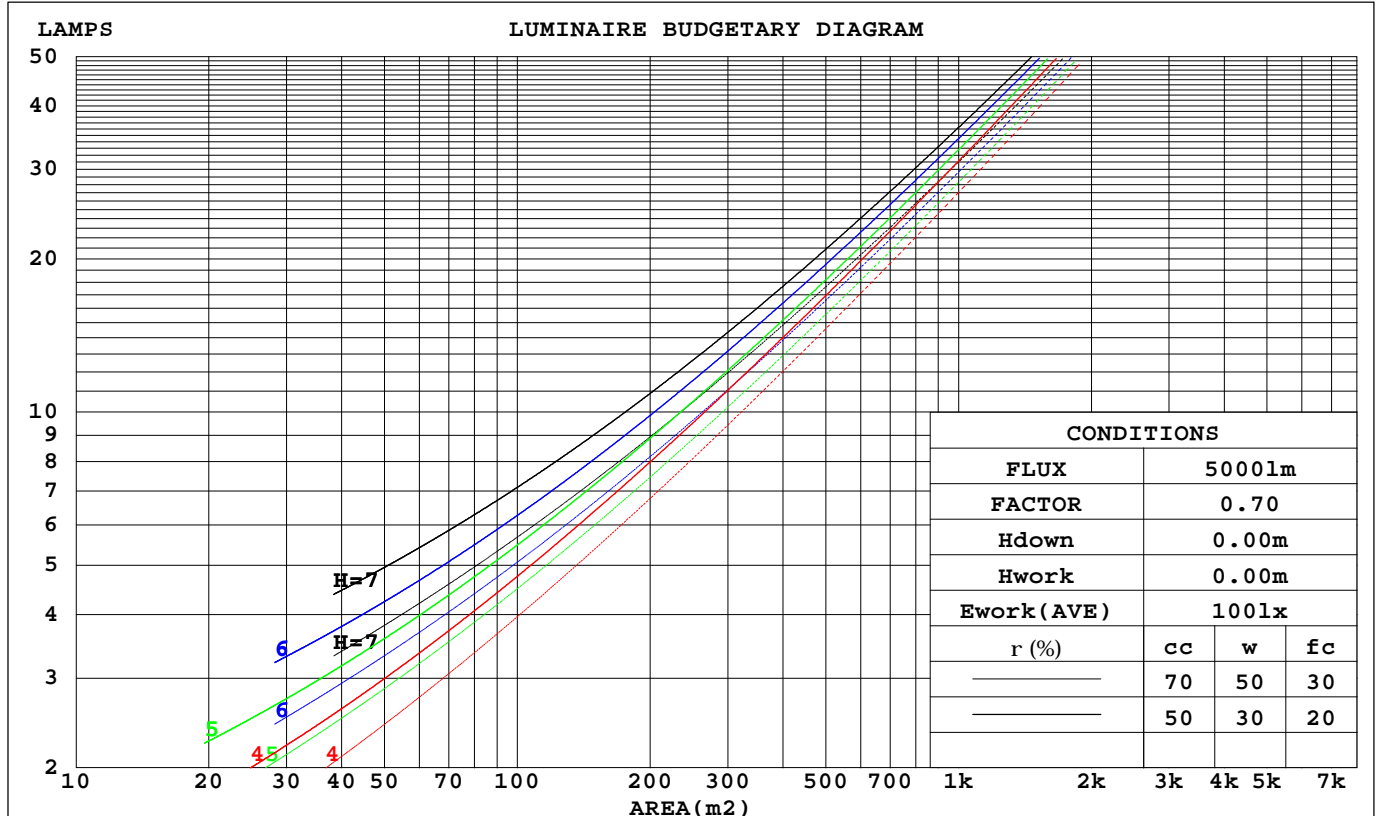
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: DS25°50W								TYPE:				WEIGHT:			
SPECIFICATION:								DIMENSION: 578*188mm				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13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: DS25°50W						TYPE:			WEIGHT:		
SPECIFICATION:						DIMENSION: 578*188mm			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	.145	.046	.240	.138	.044	.229	.133	.043															
2.0	.265	.145	.045	.259	.143	.044	.248	.138	.043	.237	.133	.042	.227	.129	.041															
3.0	.252	.134	.040	.246	.132	.040	.236	.128	.039	.227	.124	.038	.218	.121	.037															
4.0	.237	.123	.036	.232	.122	.036	.223	.118	.035	.215	.115	.035	.207	.113	.034															
5.0	.223	.113	.033	.218	.112	.033	.210	.110	.032	.203	.107	.032	.196	.105	.031															
6.0	.209	.105	.030	.205	.104	.030	.198	.102	.030	.191	.099	.029	.185	.097	.029															
7.0	.196	.097	.028	.193	.096	.027	.187	.094	.027	.181	.093	.027	.175	.091	.027															
8.0	.185	.090	.025	.182	.090	.025	.176	.088	.025	.171	.086	.025	.165	.085	.025															
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023															
10.0	.165	.079	.022	.162	.078	.022	.158	.077	.022	.153	.076	.022	.149	.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	.178	.157	.138	.152	.135	.119	.104	.093	.082	.060	.054	.048	.019	.017	.015	
2.0	.169	.132	.102	.145	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.161	.115	.077	.138	.099	.067	.095	.069	.047	.055	.040	.028	.018	.013	.009	
4.0	.154	.101	.060	.132	.087	.053	.091	.061	.037	.053	.036	.022	.017	.012	.007	
5.0	.148	.091	.049	.127	.078	.042	.087	.055	.030	.051	.032	.018	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.084	.050	.025	.049	.029	.015	.016	.010	.005	
7.0	.135	.076	.034	.116	.065	.030	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.061	.025	.077	.043	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.026	.106	.056	.022	.074	.040	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.061	.023	.102	.053	.020	.071	.037	.014	.041	.022	.008	.013	.007	.003	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月13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: DS25°50W					TYPE:			WEIGHT:			
SPECIFICATION:					DIMENSION: 578*188mm			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	25.4	26.8	25.6	27.0	27.2	24.2	25.7	24.5	25.9	26.1	
	3H	25.6	27.0	25.9	27.2	27.4	24.5	25.9	24.8	26.1	26.4
	4H	25.6	26.8	25.9	27.1	27.3	24.6	25.9	24.9	26.1	26.4
	6H	25.5	26.7	25.8	26.9	27.2	24.6	25.8	24.9	26.0	26.3
	8H	25.4	26.6	25.8	26.9	27.2	24.6	25.7	24.9	26.0	26.3
	12H	25.4	26.5	25.7	26.8	27.1	24.6	25.7	24.9	26.0	26.3
4H 2H	25.7	26.9	26.0	27.2	27.5	24.8	26.1	25.1	26.3	26.6	
	3H	26.2	27.3	26.5	27.6	27.9	25.1	26.2	25.5	26.5	26.8
	4H	26.2	27.2	26.6	27.5	27.8	25.2	26.2	25.6	26.5	26.9
	6H	26.1	27.0	26.5	27.4	27.7	25.3	26.2	25.7	26.5	26.9
	8H	26.1	26.9	26.5	27.3	27.7	25.3	26.1	25.7	26.5	26.9
	12H	26.1	26.8	26.5	27.2	27.6	25.3	26.1	25.8	26.5	26.9
8H 4H	26.2	27.0	26.6	27.3	27.7	25.3	26.1	25.7	26.5	26.8	
	6H	26.2	26.8	26.6	27.2	27.6	25.4	26.1	25.9	26.5	26.9
	8H	26.1	26.7	26.6	27.1	27.6	25.5	26.1	26.0	26.5	27.0
	12H	26.1	26.6	26.6	27.1	27.5	25.6	26.1	26.1	26.5	27.0
12H 4H	26.1	26.9	26.6	27.3	27.7	25.2	26.0	25.7	26.4	26.8	
	6H	26.1	26.7	26.6	27.2	27.6	25.4	26.0	25.9	26.4	26.9
	8H	26.1	26.6	26.6	27.1	27.6	25.5	26.0	26.0	26.5	26.9
Variations with the observer position at spacings:											
S = 1.0H	+ 1.4 / - 0.8					+ 1.1 / - 1.3					
1.5H	+ 1.9 / - 4.0					+ 1.1 / - 1.2					
2.0H	+ 2.8 / - 5.7					+ 1.1 / - 1.3					

CIE Pub.117 Corrected 7062 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.8)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月13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: DS25°50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	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	47	41	58	47	41	57	47	40	34
0.80	70	59	52	69	58	51	67	58	51	44
1.00	79	69	62	78	68	62	76	69	61	54
1.25	87	77	70	85	76	70	83	75	69	62
1.50	91	83	76	90	82	76	87	80	75	68
2.00	98	91	85	96	89	84	93	87	83	75
2.50	101	95	89	100	93	88	96	91	86	79
3.00	105	98	94	102	97	93	99	94	90	82
4.00	108	103	99	106	101	97	102	98	95	86
5.00	110	106	102	108	104	100	103	100	97	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

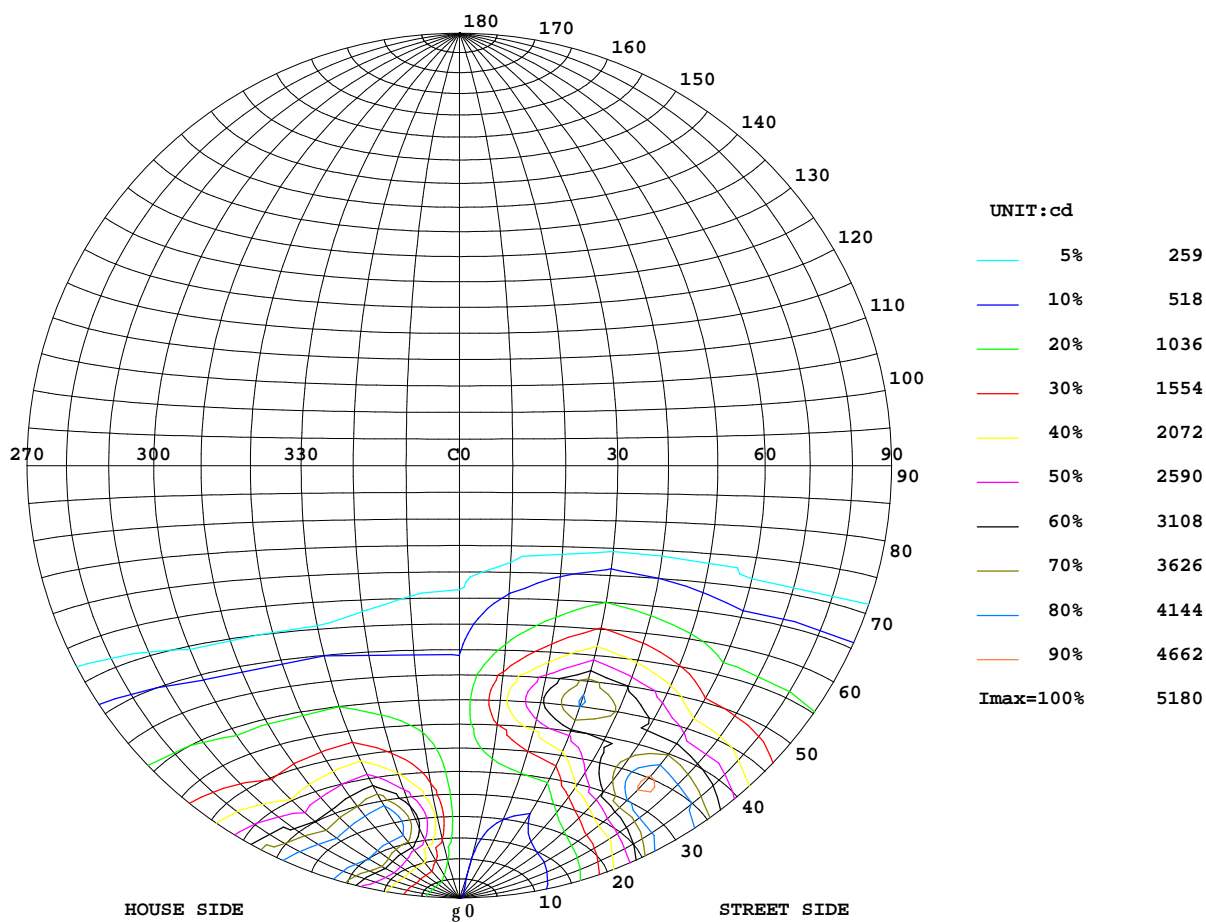
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年08月13日

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: DS25°50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月13日

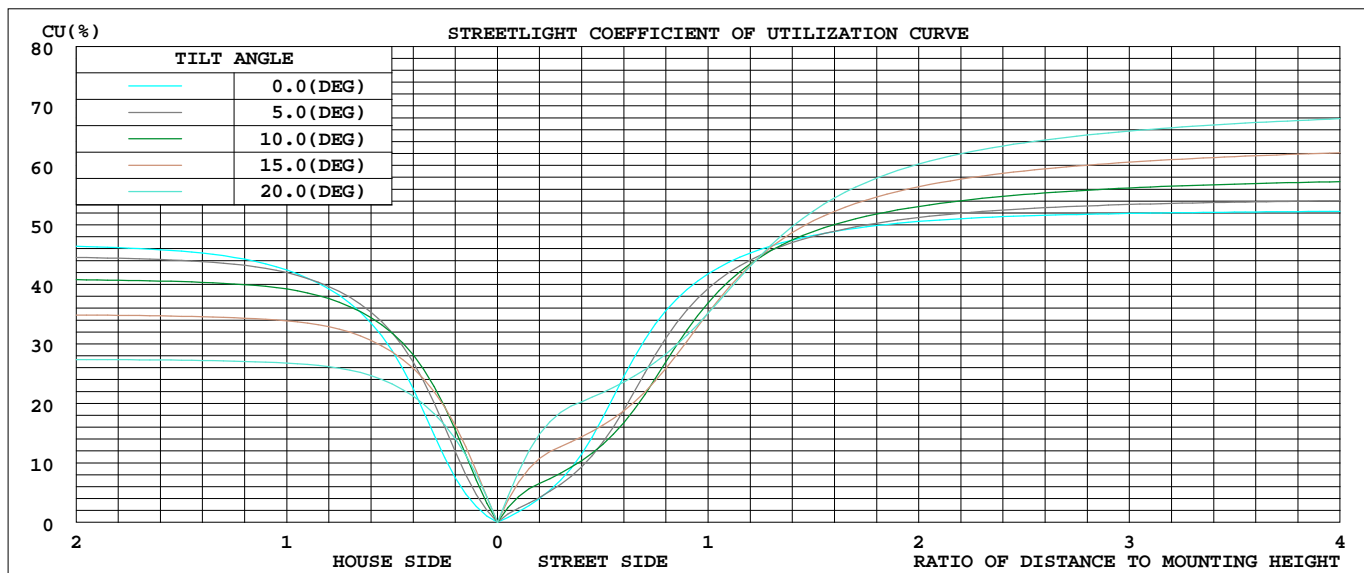
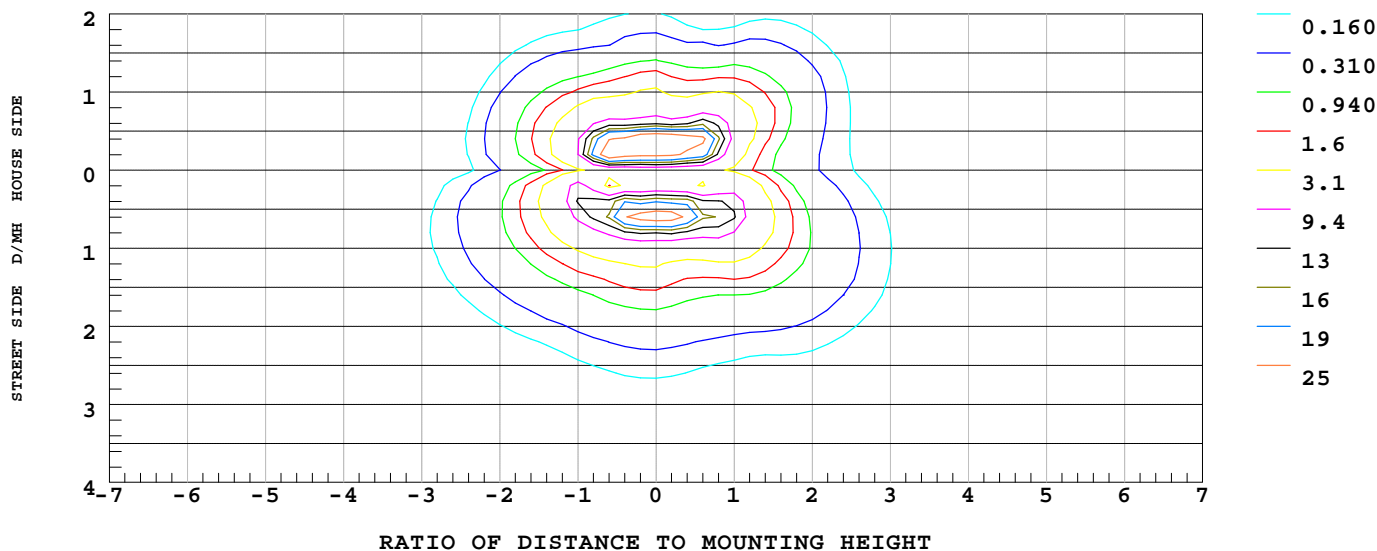
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: DS25°50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:

ILLUMINANCE AT MH=10 m,Enadir = 5.59 lx



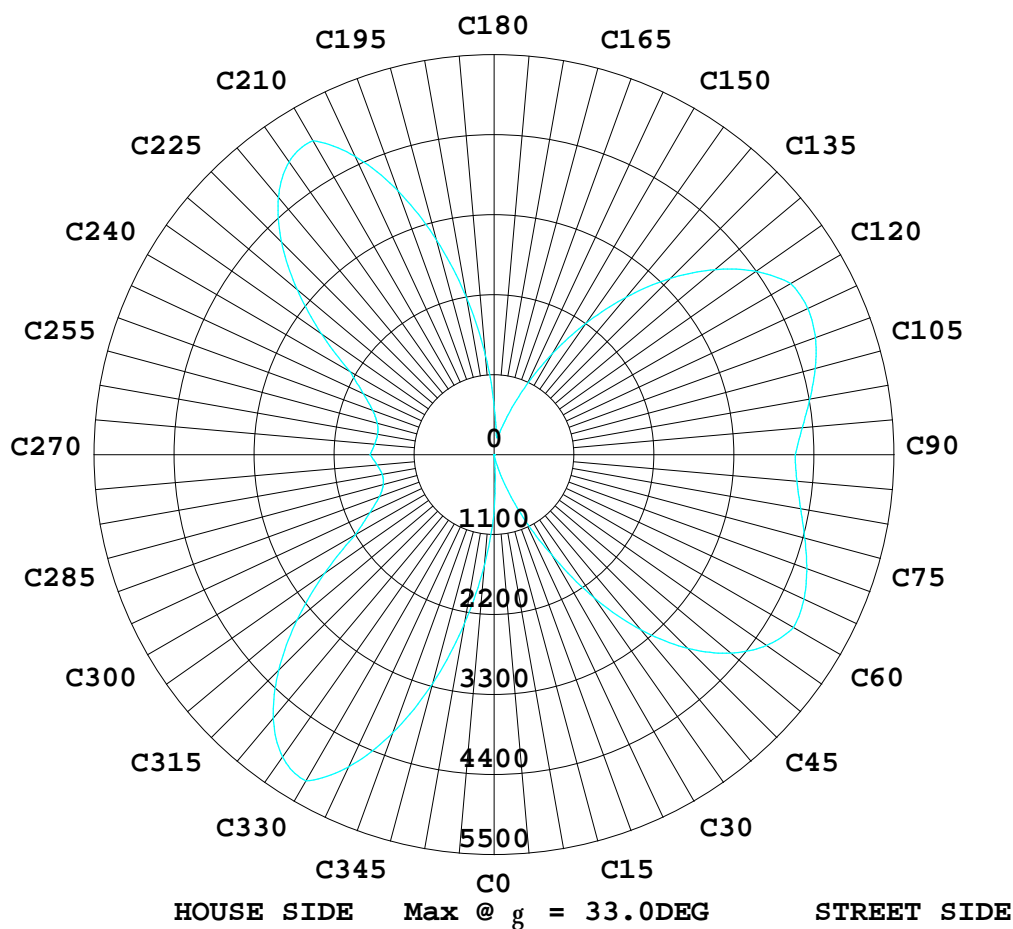
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月13日

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: DS25°50W	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 578*188mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年08月13日

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