

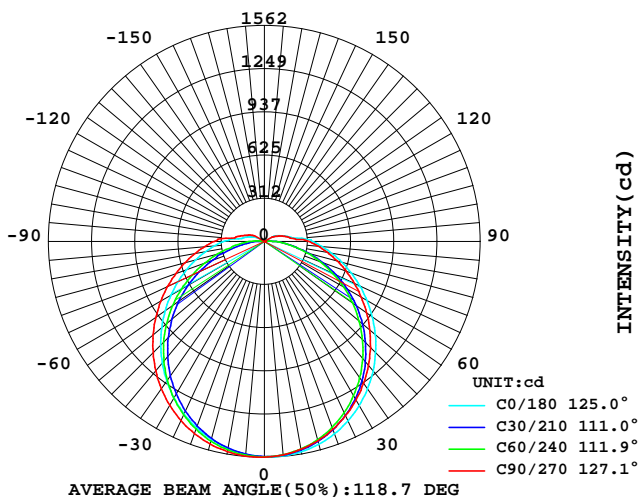
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

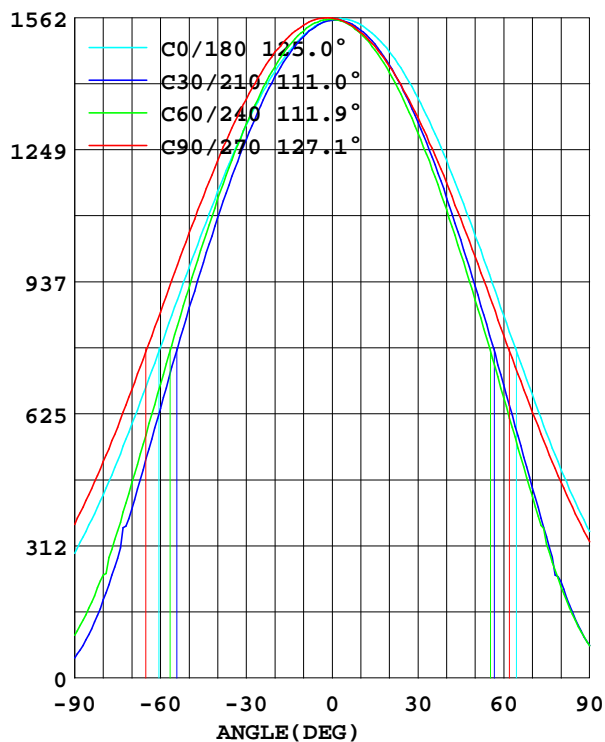
MANUFACTURER:		
Address:		
NAME: D50 1.5 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500*50mm	SERIAL No.:

DATA OF LAMP		I _{max} (cd)	1563	S/MH(C0/180)	1.25
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.30
NOMINAL POWER(W)	40	TOTAL FLUX(lm)	5882.8	Voltage(V)	223.8
RATED VOLTAGE(V)	224	EFFICIENCY(lm/W)	144.2	Current(A)	0.185
NOMINAL FLUX(lm)	5882.9	h up(%)	8.6	Power(W)	40.79
LAMPS QUANTITY	1	h down(%)	91.4	Power Factor(PF)	0.980
TEST VOLTAGE(V)	223.9	Effective Flux(lm)	5772.0	EEI	0.096

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



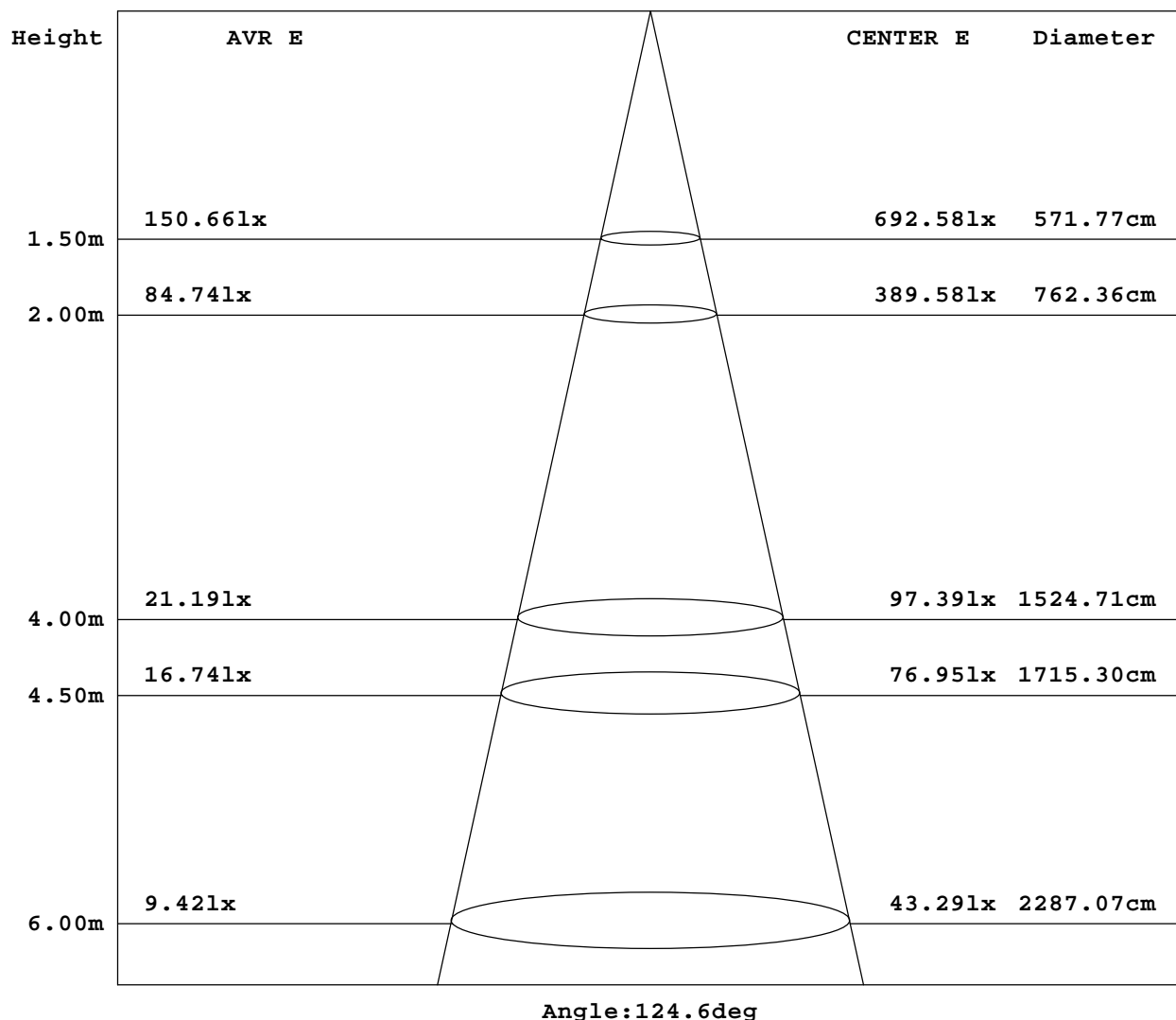
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年10月18日

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: D50 1.5 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500*50mm	SERIAL No.:



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 2019年10月18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: D50 1.5 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500*50mm	SERIAL No.:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	1545	1547	1559	1562	1558	1550	1550	1549	0- 5	37.19	37.19
10.0	1520	1523	1544	1554	1545	1528	1526	1528	5- 10	110.3	147.5
15.0	1483	1485	1517	1535	1519	1492	1493	1497	10- 15	180.1	327.6
20.0	1433	1433	1480	1506	1481	1441	1446	1458	15- 20	244.1	571.8
25.0	1376	1368	1429	1469	1432	1378	1390	1410	20- 25	300.6	872.4
30.0	1308	1292	1368	1422	1372	1302	1327	1355	25- 30	347.9	1220
35.0	1231	1205	1301	1368	1301	1216	1252	1292	30- 35	384.8	1605
40.0	1150	1110	1222	1306	1225	1121	1170	1225	35- 40	410.6	2016
45.0	1061	1006	1138	1237	1138	1020	1087	1153	40- 45	424.9	2441
50.0	969.1	898.1	1052	1164	1046	909.9	996.1	1075	45- 50	427.9	2869
55.0	877.6	784.6	958.7	1088	954.3	796.2	903.0	996.8	50- 55	419.9	3289
60.0	782.3	665.6	864.9	1007	857.8	678.8	811.2	917.3	55- 60	401.9	3691
65.0	688.9	547.1	774.2	925.9	761.7	557.8	718.3	835.2	60- 65	375.3	4066
70.0	600.2	429.4	680.8	844.0	670.4	439.3	627.8	757.1	65- 70	341.4	4407
75.0	513.2	315.2	592.6	761.5	578.9	325.0	545.1	679.4	70- 75	303.1	4711
80.0	432.5	214.1	512.0	682.4	493.2	222.1	463.9	602.5	75- 80	260.9	4972
85.0	362.2	133.8	433.2	605.3	416.9	137.6	388.2	529.6	80- 85	220.5	5192
90.0	294.9	74.12	362.9	529.3	346.3	76.60	322.1	457.9	85- 90	182.4	5374
95.0	217.7	35.94	279.8	455.3	272.6	36.91	224.8	382.1	90- 95	147.7	5522
100.0	157.0	11.89	202.7	361.1	187.2	10.72	178.6	306.0	95-100	106.5	5629
105.0	126.3	7.175	167.1	309.2	153.8	3.521	149.1	260.0	100-105	86.12	5715
110.0	99.41	4.392	132.8	256.1	124.8	1.246	115.6	214.2	105-110	69.02	5784
115.0	75.21	2.093	108.6	211.5	99.05	0	88.64	173.5	110-115	54.27	5838
120.0	54.52	0	85.13	167.5	78.11	0	63.47	135.1	115-120	41.14	5879
125.0	0	0	0	0	0	0	0	0	120-125	3.491	5883
130.0	0	0	0	0	0	0	0	0	125-130	0	5883
135.0	0	0	0	0	0	0	0	0	130-135	0	5883
140.0	0	0	0	0	0	0	0	0	135-140	0	5883
145.0	0	0	0	0	0	0	0	0	140-145	0	5883
150.0	0	0	0	0	0	0	0	0	145-150	0	5883
155.0	0	0	0	0	0	0	0	0	150-155	0	5883
160.0	0	0	0	0	0	0	0	0	155-160	0	5883
165.0	0	0	0	0	0	0	0	0	160-165	0	5883
170.0	0	0	0	0	0	0	0	0	165-170	0	5883
175.0	0	0	0	0	0	0	0	0	170-175	0	5883
180.0	0	0	0	0	0	0	0	0	175-180	0	5883
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年10月18日

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

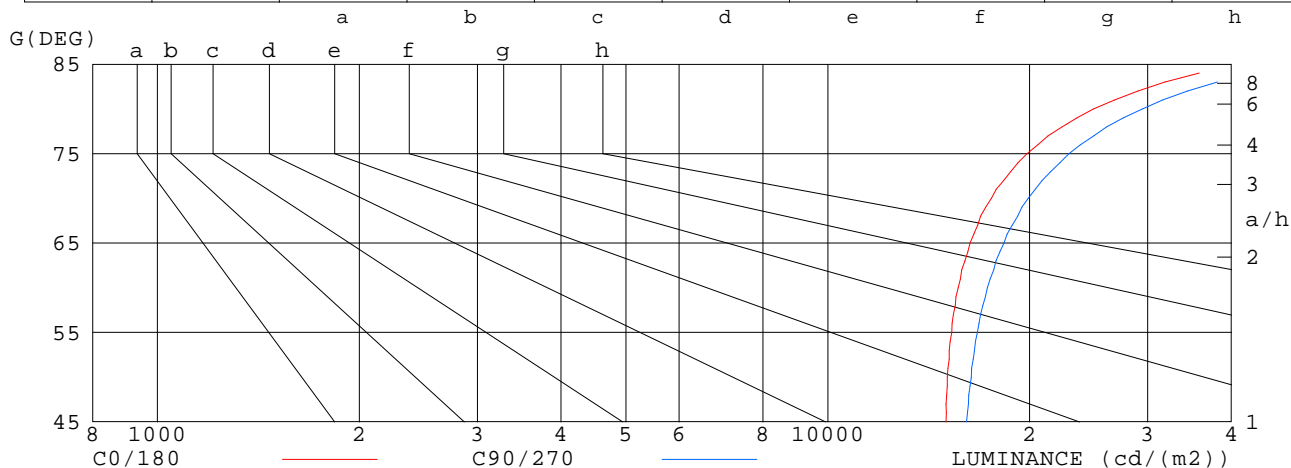
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: D50 1.5 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500*50mm	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	41561	49710
80	24908	29486
75	19830	22897
70	17550	19906
65	16301	18320
60	15647	17300
55	15302	16715
50	15077	16367
45	15012	16100

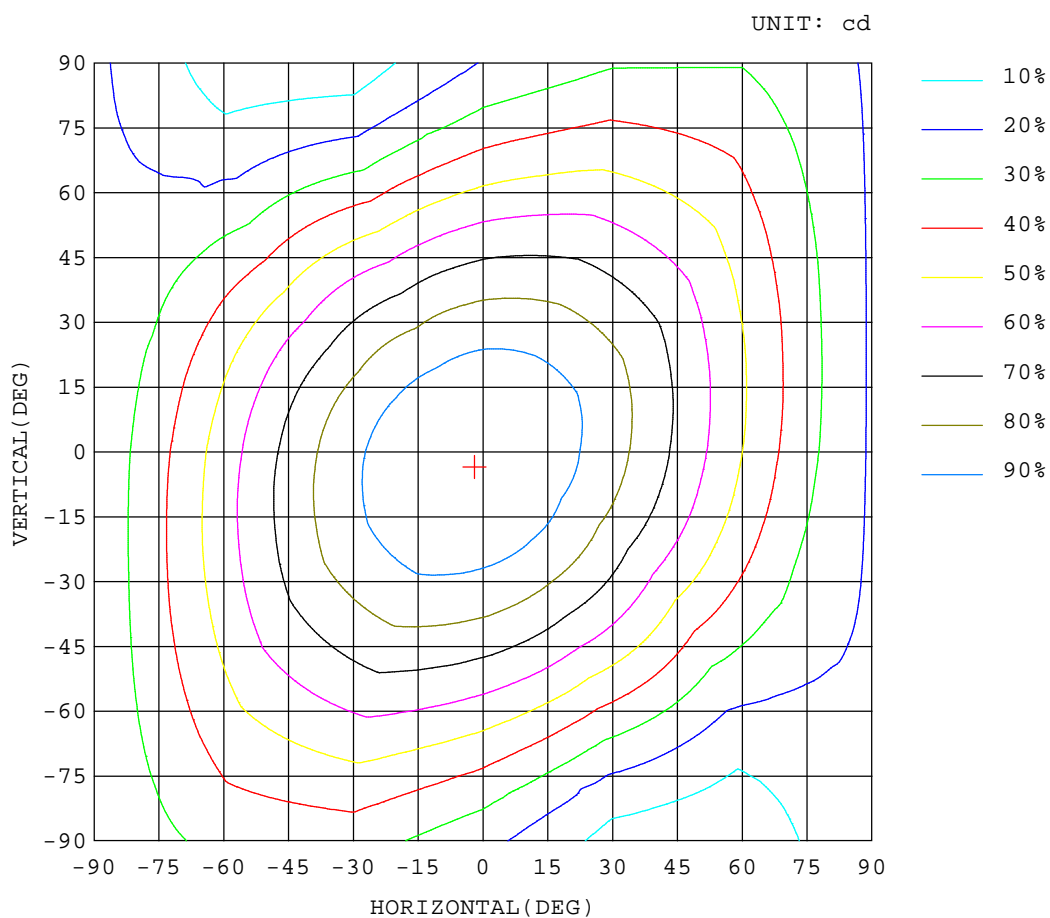
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年10月18日

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: D50 1.5 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500*50mm	SERIAL No.:



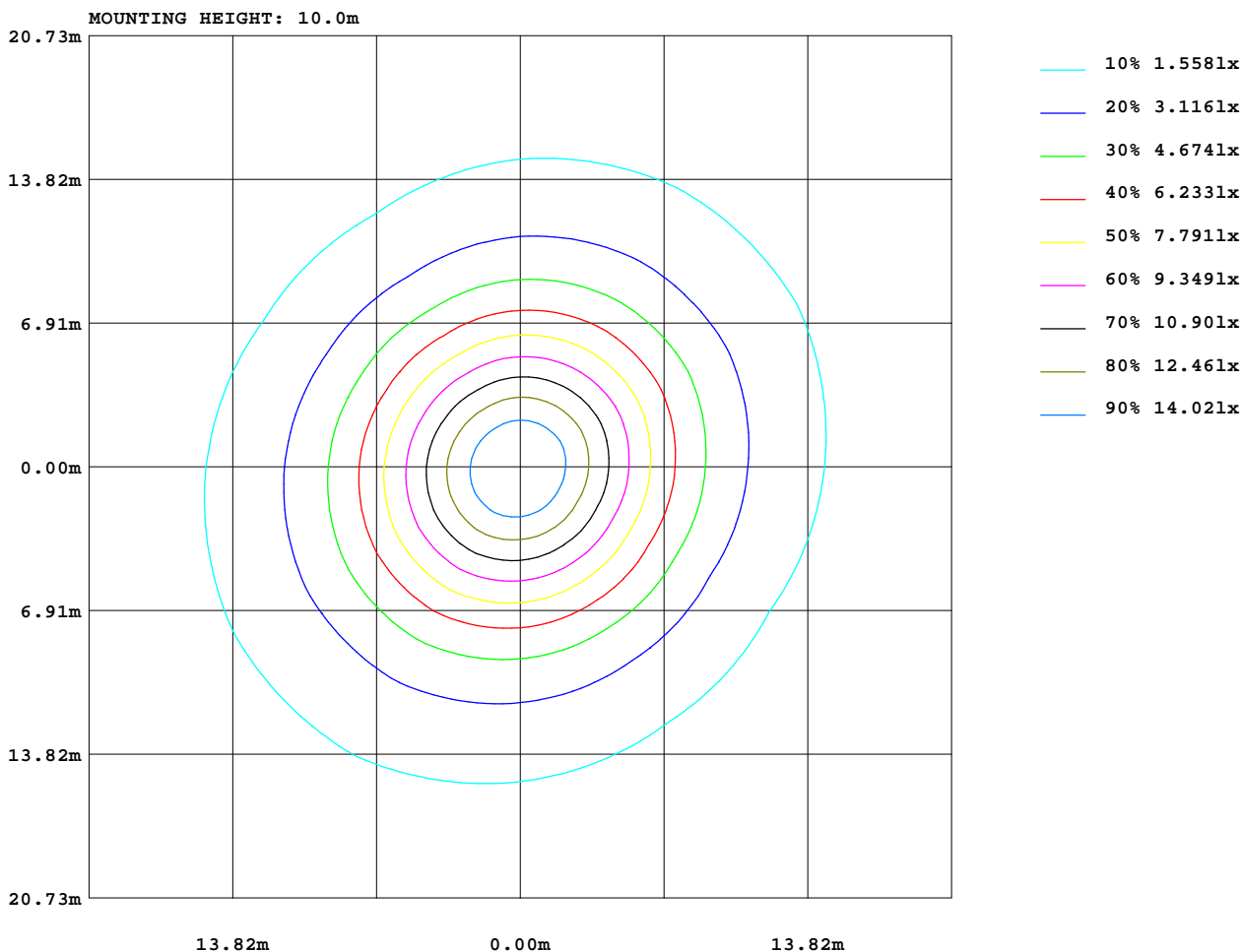
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年10月18日

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: D50 1.5 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500*50mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年10月18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: D50 1.5 M 5000K										TYPE:					WEIGHT:					
SPECIFICATION:										DIMENSION: 1500*50mm					SERIAL No.:					

VERTICAL (DEG)	AREA FLUX DIAGRAM																		UNIT:lm		Φ t	Φ a
	0.78	1.75	1.86	1.92	2.56	3.15	4.79	7.70	10.5	12.5	13.4	13.7	12.8	10.9	8.74	5.97	3.14	0.90	117	109		
90	0.82	2.06	2.72	3.47	4.98	6.58	8.90	12.3	15.2	17.1	17.7	17.5	15.8	13.1	10.1	6.68	3.40	0.94	160	160		
80	0.87	2.43	3.75	5.41	8.21	10.9	13.9	17.7	20.7	22.3	22.5	21.5	18.9	15.4	11.5	7.35	3.64	0.97	209	209		
70	0.92	2.83	4.96	7.69	11.5	15.6	19.3	23.4	26.5	27.8	27.4	25.6	22.0	17.6	12.9	7.94	3.85	1.00	259	259		
60	0.98	3.23	6.20	9.97	14.8	20.0	24.6	29.0	32.1	33.1	32.2	29.4	24.9	19.7	14.0	8.45	4.02	1.01	308	308		
50	1.02	3.63	7.31	12.1	17.7	23.9	29.5	34.0	37.2	38.0	36.5	32.8	27.6	21.5	14.8	8.84	4.14	1.03	352	352		
40	1.07	3.99	8.28	13.9	20.4	27.2	33.6	38.4	41.5	42.1	40.0	35.6	29.7	22.5	15.3	9.08	4.21	1.03	389	389		
30	1.12	4.29	9.07	15.3	22.6	30.0	36.7	41.8	44.7	45.0	42.4	37.5	30.7	23.1	15.6	9.16	4.22	1.03	415	415		
	1.15	4.53	9.65	16.3	24.0	31.8	38.8	43.9	46.6	46.5	43.5	38.0	30.9	23.0	15.5	9.06	4.17	1.02	429	429		
	1.17	4.69	10.0	16.8	24.7	32.6	39.6	44.6	47.1	46.5	43.1	37.4	30.2	22.4	15.0	8.73	4.03	1.00	430	430		
	1.18	4.74	10.1	17.0	24.7	32.5	39.2	43.9	46.1	45.2	41.5	35.6	28.6	21.2	14.1	8.19	3.80	0.97	419	419		
	1.19	4.73	10.0	16.7	24.3	31.6	37.7	42.0	43.5	42.4	38.8	33.1	26.1	19.2	12.8	7.45	3.52	0.93	397	397		
-30	1.18	4.66	9.78	16.2	23.2	29.7	35.2	38.8	39.8	38.5	34.8	29.6	23.2	16.6	11.0	6.55	3.18	0.89	364	364		
-40	1.16	4.53	9.37	15.3	21.5	27.2	32.1	34.6	35.1	33.5	30.0	25.1	19.7	13.9	9.00	5.51	2.81	0.84	322	322		
-50	1.14	4.34	8.84	14.2	19.4	24.3	28.3	29.8	29.7	28.0	24.6	20.1	15.6	10.9	6.92	4.35	2.42	0.79	274	274		
-60	1.11	4.12	8.20	12.8	17.2	21.2	24.1	24.8	24.2	22.2	18.9	14.8	11.2	7.90	4.81	3.19	2.05	0.74	224	224		
-70	1.07	3.86	7.50	11.3	14.8	18.0	19.9	19.8	18.9	16.6	13.4	9.72	6.90	4.81	2.93	2.18	1.71	0.70	175	173		
-80	1.04	3.58	6.73	9.88	12.5	14.9	15.9	15.3	14.0	11.8	8.76	5.63	3.57	2.48	1.52	1.40	1.43	0.66	131	124		
-90																						
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																						
Φ t	19.0	68.0	134	217	310	402	483	543	574	570	530	464	379	287	197	120	59.8	16.4	5883			
Φ a	19.0	68.0	133	215	308	400	482	543	574	570	530	463	377	285	195	118	59.6	16.4		5772		

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年10月18日

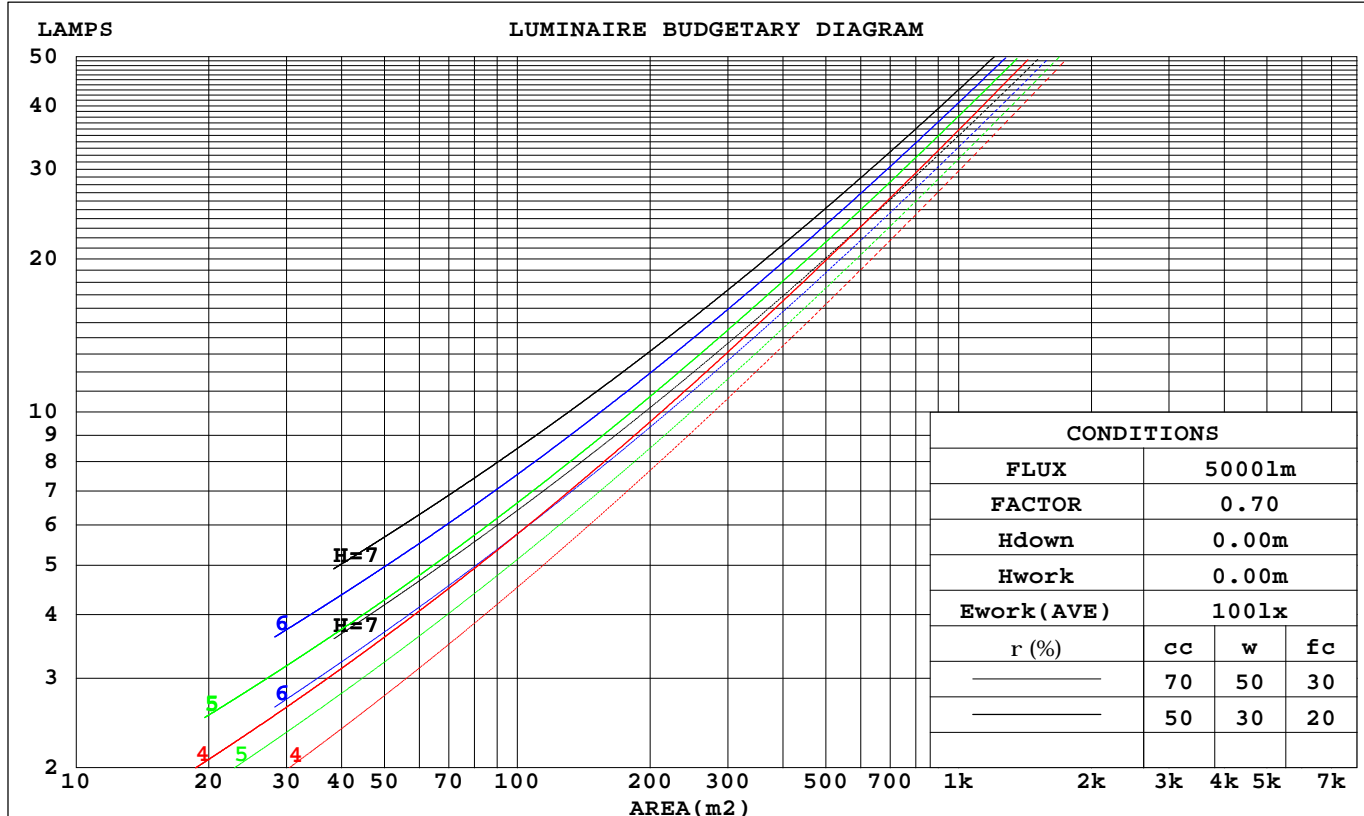
Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:11.000 m
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: D50 1.5 M 5000K								TYPE:				WEIGHT:			
SPECIFICATION:								DIMENSION: 1500*50mm				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10月18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: D50 1.5 M 5000K						TYPE:			WEIGHT:		
SPECIFICATION:						DIMENSION: 1500*50mm			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	.378	.215	.068	.368	.210	.067	.349	.200	.064	.332	.192	.062	.317	.184	.059															
2.0	.331	.181	.056	.322	.177	.055	.305	.170	.053	.290	.163	.051	.276	.156	.049															
3.0	.295	.157	.047	.287	.154	.046	.273	.148	.045	.259	.142	.043	.246	.136	.042															
4.0	.267	.139	.041	.260	.136	.040	.246	.131	.039	.234	.126	.038	.222	.121	.037															
5.0	.243	.124	.036	.237	.121	.035	.225	.117	.034	.213	.113	.033	.203	.108	.033															
6.0	.223	.112	.032	.217	.110	.032	.206	.106	.031	.196	.102	.030	.187	.098	.029															
7.0	.206	.102	.029	.201	.100	.028	.191	.096	.028	.182	.093	.027	.173	.090	.026															
8.0	.191	.093	.026	.186	.092	.026	.177	.089	.025	.169	.086	.025	.161	.083	.024															
9.0	.178	.086	.024	.174	.085	.024	.166	.082	.023	.158	.079	.023	.151	.077	.022															
10.0	.167	.080	.022	.163	.079	.022	.156	.076	.021	.148	.074	.021	.142	.071	.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	.256	.256	.256	.219	.219	.219	.150	.150	.150	.086	.086	.086	.027	.027	.027	
1.0	.251	.222	.195	.215	.190	.168	.147	.131	.116	.085	.076	.068	.027	.024	.022	
2.0	.244	.199	.160	.209	.171	.138	.143	.118	.097	.083	.069	.057	.027	.022	.018	
3.0	.237	.182	.138	.203	.157	.120	.139	.109	.084	.080	.064	.049	.026	.021	.016	
4.0	.229	.169	.123	.196	.146	.107	.135	.102	.075	.078	.060	.045	.025	.019	.015	
5.0	.221	.159	.113	.190	.137	.098	.131	.096	.069	.076	.056	.041	.024	.018	.014	
6.0	.213	.151	.106	.183	.130	.092	.127	.091	.065	.073	.054	.039	.024	.018	.013	
7.0	.206	.144	.100	.177	.125	.087	.123	.087	.062	.071	.052	.037	.023	.017	.012	
8.0	.199	.138	.096	.172	.120	.084	.119	.084	.060	.069	.050	.035	.022	.016	.012	
9.0	.193	.133	.093	.166	.116	.081	.115	.081	.058	.067	.048	.034	.022	.016	.011	
10.0	.187	.129	.091	.161	.112	.079	.112	.079	.056	.065	.047	.033	.021	.015	.011	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年10月18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: D50 1.5 M 5000K						TYPE:		WEIGHT:			
SPECIFICATION:						DIMENSION: 1500*50mm		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	21.0	22.5	21.4	22.9	23.2	21.6	23.0	21.9	23.4	23.8	
	3H	23.0	24.4	23.4	24.8	25.2	23.7	25.1	24.1	25.5	25.9
	4H	24.1	25.4	24.5	25.8	26.2	24.9	26.2	25.3	26.6	27.0
	6H	25.2	26.5	25.7	26.9	27.4	26.1	27.4	26.6	27.8	28.3
	8H	25.9	27.1	26.4	27.5	28.0	26.9	28.1	27.3	28.5	29.0
	12H	26.7	27.8	27.1	28.3	28.8	27.7	28.9	28.2	29.3	29.8
4H	2H	21.5	22.8	22.0	23.2	23.7	22.0	23.3	22.4	23.7	24.1
	3H	23.6	24.7	24.1	25.2	25.7	24.2	25.4	24.7	25.8	26.3
	4H	24.7	25.8	25.2	26.2	26.8	25.5	26.5	26.0	27.0	27.5
	6H	26.0	26.9	26.5	27.4	28.0	26.9	27.9	27.4	28.4	28.9
	8H	26.7	27.6	27.3	28.2	28.7	27.8	28.7	28.3	29.2	29.8
	12H	27.7	28.5	28.2	29.0	29.6	28.8	29.6	29.3	30.1	30.7
8H	4H	24.9	25.8	25.4	26.3	26.9	25.6	26.5	26.1	27.0	27.6
	6H	26.2	27.0	26.8	27.6	28.2	27.2	27.9	27.7	28.5	29.1
	8H	27.1	27.8	27.7	28.3	29.0	28.1	28.8	28.7	29.4	30.0
	12H	28.2	28.8	28.8	29.4	30.0	29.4	29.9	30.0	30.5	31.2
12H	4H	24.9	25.8	25.5	26.3	26.9	25.6	26.4	26.2	27.0	27.6
	6H	26.3	27.0	26.9	27.6	28.2	27.2	27.9	27.8	28.4	29.1
	8H	27.2	27.8	27.8	28.4	29.0	28.2	28.8	28.8	29.4	30.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
2.0H	+ 0.3 / - 0.2					+ 0.3 / - 0.4					

CIE Pub.117 Corrected 5883 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.2)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年10月18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: D50 1.5 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500*50mm	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) $k(RI) \times RCR = 5$									
$k = 0.60$	51	39	32	50	39	32	49	38	31	25
0.80	61	48	40	59	47	40	57	46	39	32
1.00	69	56	48	67	55	47	64	56	47	39
1.25	75	63	55	74	62	55	70	61	53	45
1.50	81	69	61	78	68	60	75	65	59	50
2.00	88	77	69	85	76	68	81	73	66	57
2.50	92	82	75	89	80	74	84	77	71	61
3.00	96	87	80	93	85	78	88	81	76	65
4.00	100	93	87	97	90	85	91	86	81	70
5.00	103	97	91	100	94	89	94	89	85	73
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

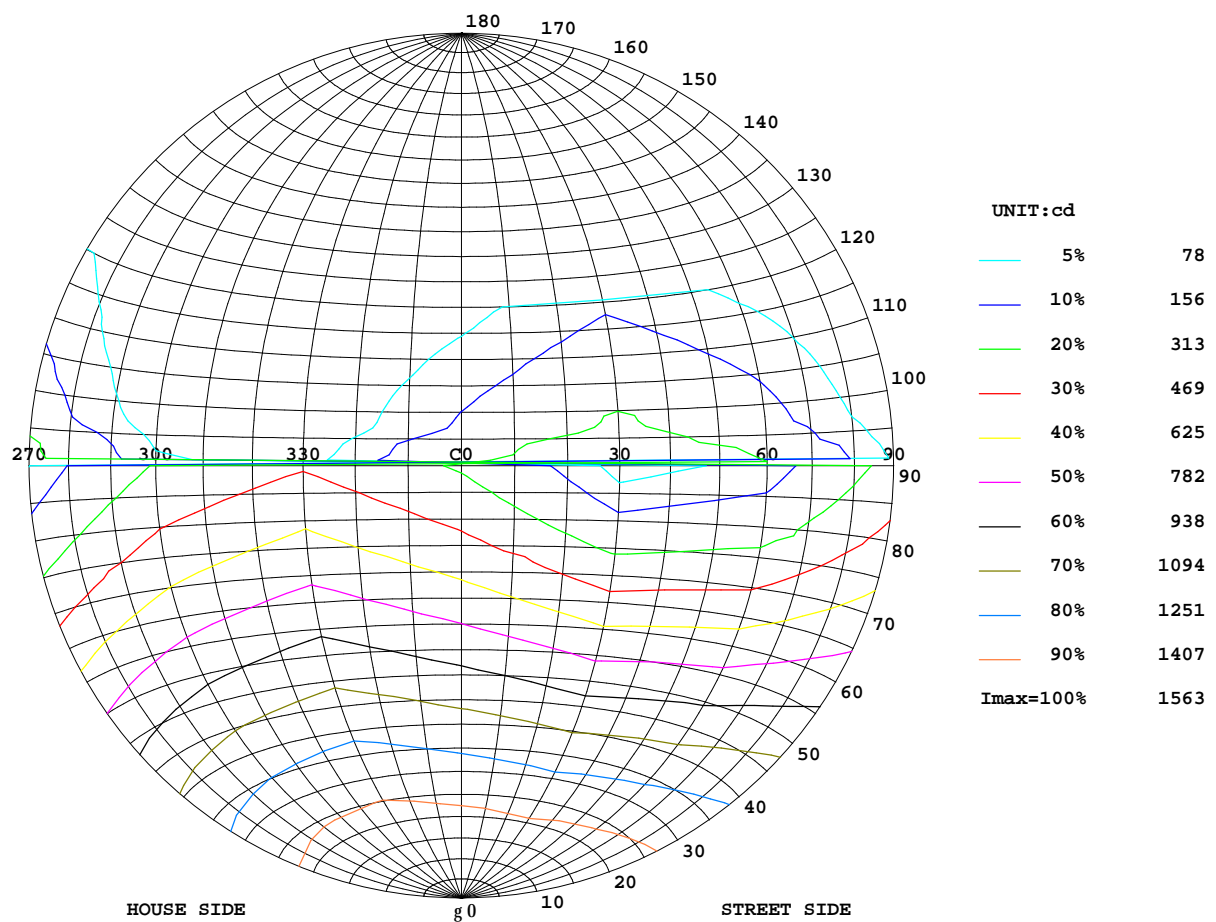
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2019年10月18日

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: D50 1.5 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500*50mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年10月18日

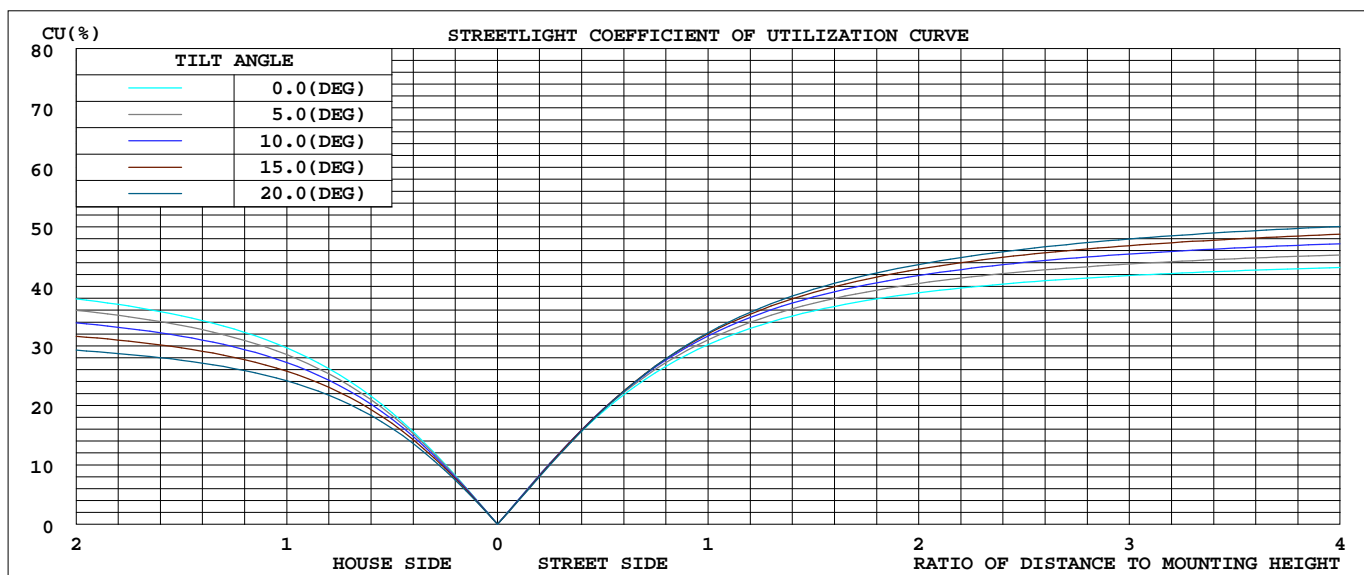
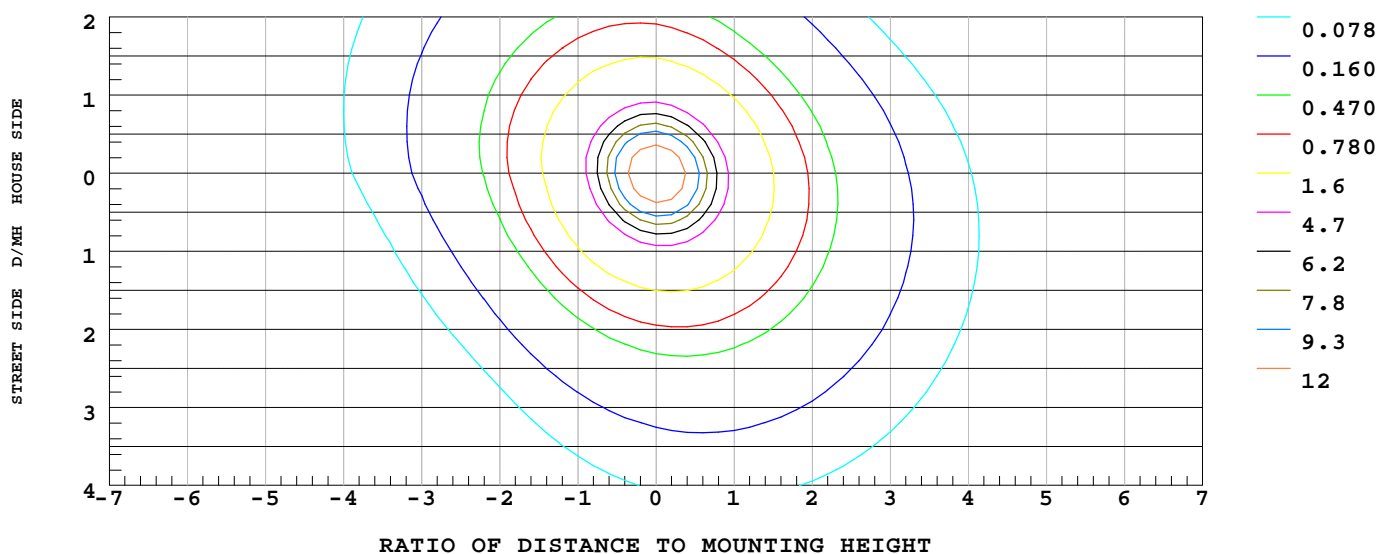
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:11.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: D50 1.5 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500*50mm	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 15.58 lx



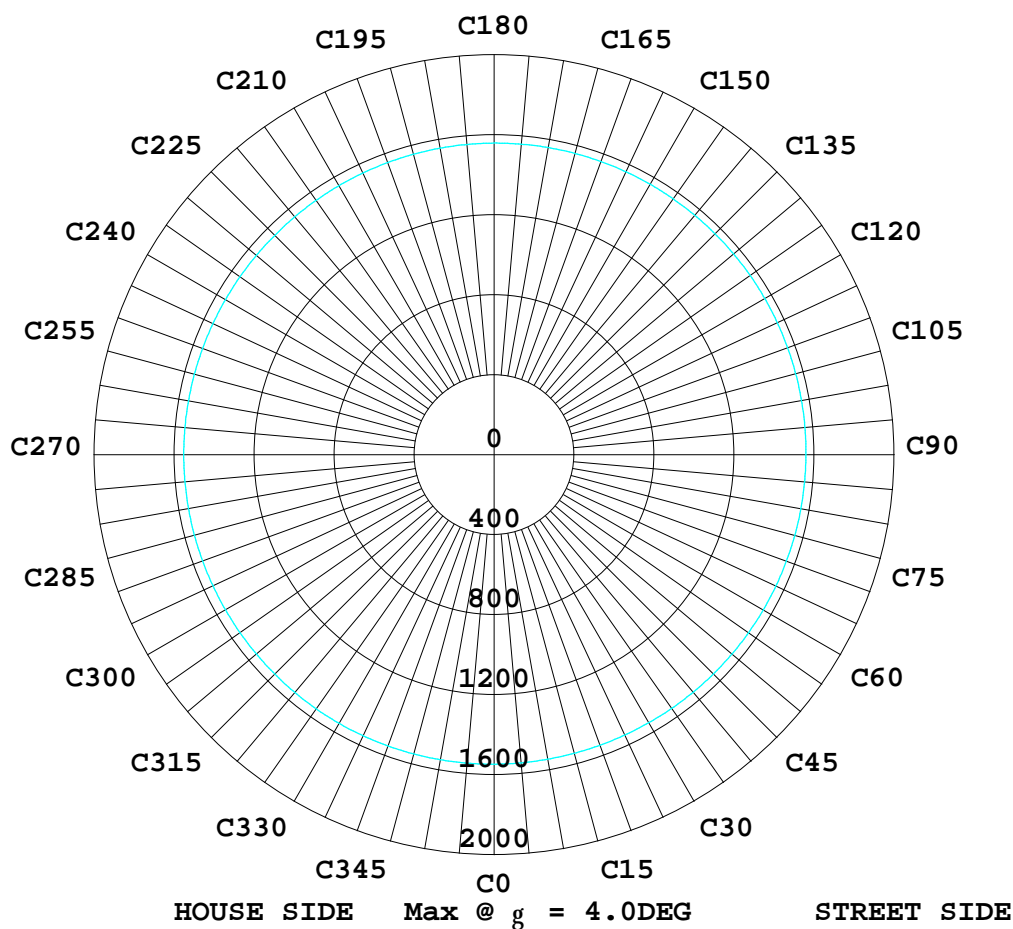
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年10月18日

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: D50 1.5 M 5000K	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 1500*50mm	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2019年10月18日

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