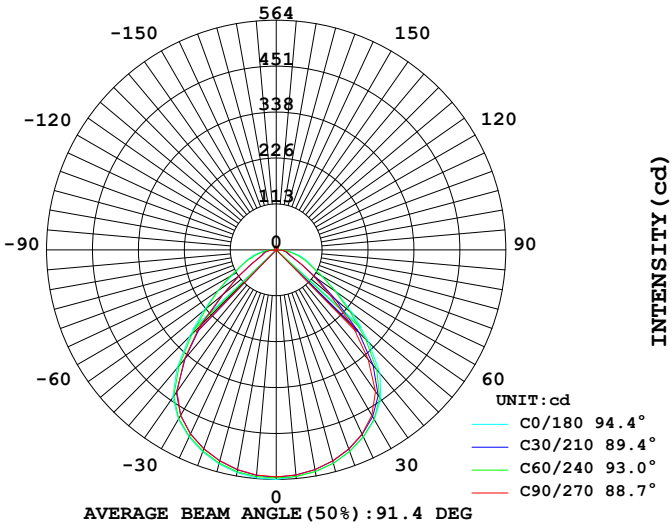
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

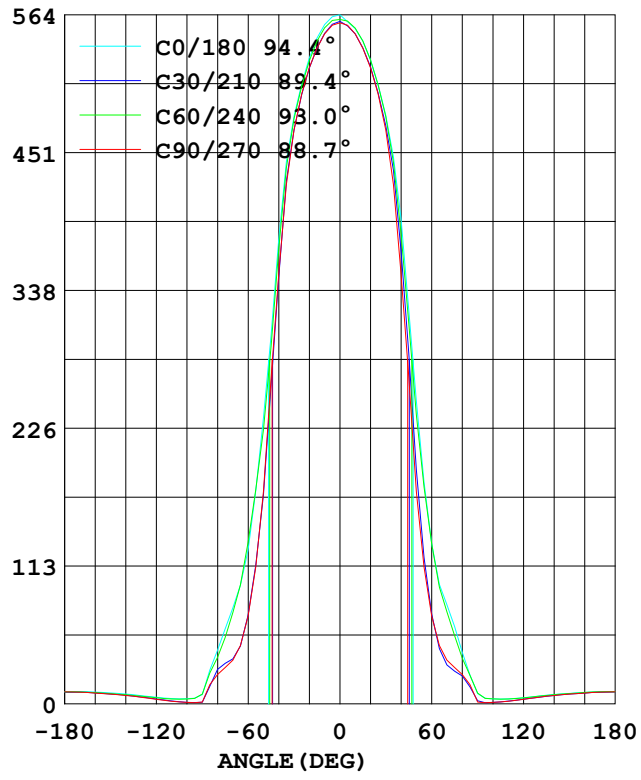
DATA OF LAMP		Imax(cd)	564.0	S/MH(C0/180)	1.26
MODEL		EFFICIENCY(%)	100.0	S/MH(C90/270)	1.25
NOMINAL POWER(W)	16	TOTAL FLUX(lm)	1235.9	Voltage(V)	220.3
RATED VOLTAGE(V)	220	EFFICIENCY(lm/W)	80.4	Current(A)	0.070
NOMINAL FLUX(lm)	1235.9	η up(%)	2.6	Power(W)	15.38
LAMPS QUANTITY	1	η down(%)	97.4	Power Factor(PF)	0.989
TEST VOLTAGE(V)	220.4	Effictive Flux(lm)	1060.9	EEI	0.191

LUMINOUS INTENSITY DISTRIBUTION



AVERAGE BEAM ANGLE(50%):91.4 DEG

LUMINOUS INTENSITY DISTRIBUTION



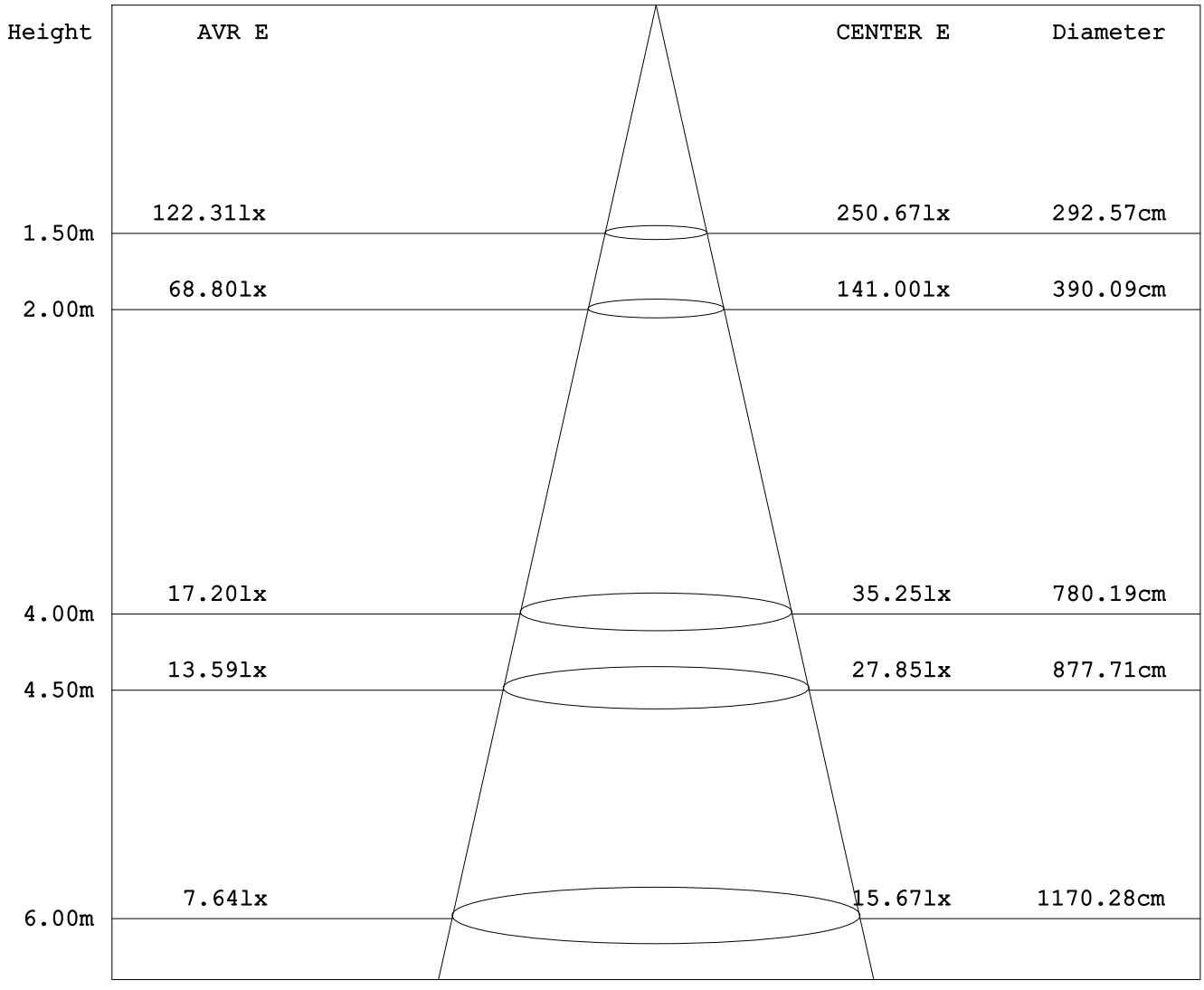
Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

AVERAGE AND CENTER E Figure

Report number:

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



Angle:88.6deg

Test System:HOPOO HPG1900
Test Set: 5.0deg/s C-Gamma (TYPE C)
Temperature:25.3DEG
Humidity:65.0%
Operators:
Test Distance:10.000 m
Test Date:2025年03月26日
Remarks:

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
10.0	555.9	551.0	548.2	550.5	552.7	550.5	548.2	551.0	0- 10	52.99	52.99
20.0	528.5	523.1	520.5	523.9	527.0	523.9	520.5	523.1	10- 20	152.3	205.3
30.0	481.0	475.0	469.7	477.4	481.7	477.4	469.7	475.0	20- 30	231.5	436.8
40.0	379.6	359.7	351.1	378.4	396.3	378.4	351.1	359.7	30- 40	268.8	705.7
50.0	234.1	200.2	173.8	216.8	248.0	216.8	173.8	200.2	40- 50	222.5	928.3
60.0	125.8	100.1	71.90	99.80	131.1	99.80	71.90	100.1	50- 60	132.4	1061
70.0	78.69	57.84	35.79	54.05	81.19	54.05	35.79	57.84	60- 70	73.78	1135
80.0	44.00	33.25	24.10	31.34	42.20	31.34	24.10	33.25	70- 80	47.61	1182
90.0	7.700	4.300	1.500	5.250	8.400	5.250	1.500	4.300	80- 90	21.16	1203
100.0	4.200	2.650	1.300	2.550	4.100	2.550	1.300	2.650	90-100	3.552	1207
110.0	4.400	3.150	2.200	3.050	4.100	3.050	2.200	3.150	100-110	2.997	1210
120.0	5.400	4.400	3.700	4.300	5.000	4.300	3.700	4.400	110-120	3.709	1214
130.0	6.800	5.950	5.500	5.850	6.400	5.850	5.500	5.950	120-130	4.634	1218
140.0	8.100	7.250	6.900	7.100	7.700	7.100	6.900	7.250	130-140	5.125	1223
150.0	9.000	8.300	8.000	8.150	8.600	8.150	8.000	8.300	140-150	4.887	1228
160.0	9.600	9.050	8.900	9.100	9.400	9.100	8.900	9.050	150-160	4.028	1232
170.0	10.10	9.600	9.600	9.750	10.00	9.750	9.600	9.600	160-170	2.672	1235
180.0	10.00	9.650	9.900	9.750	10.00	9.750	9.900	9.650	170-180	0.931	1236
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

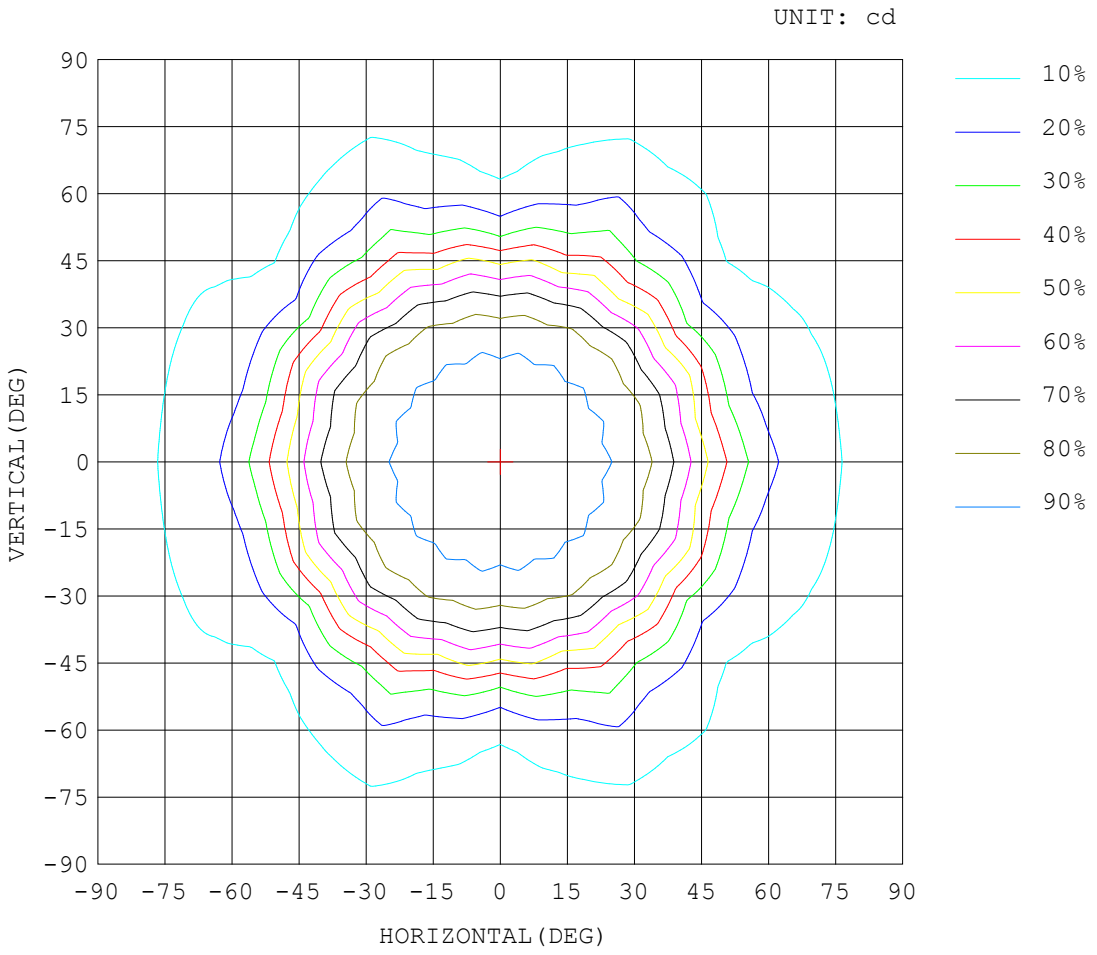
Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

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



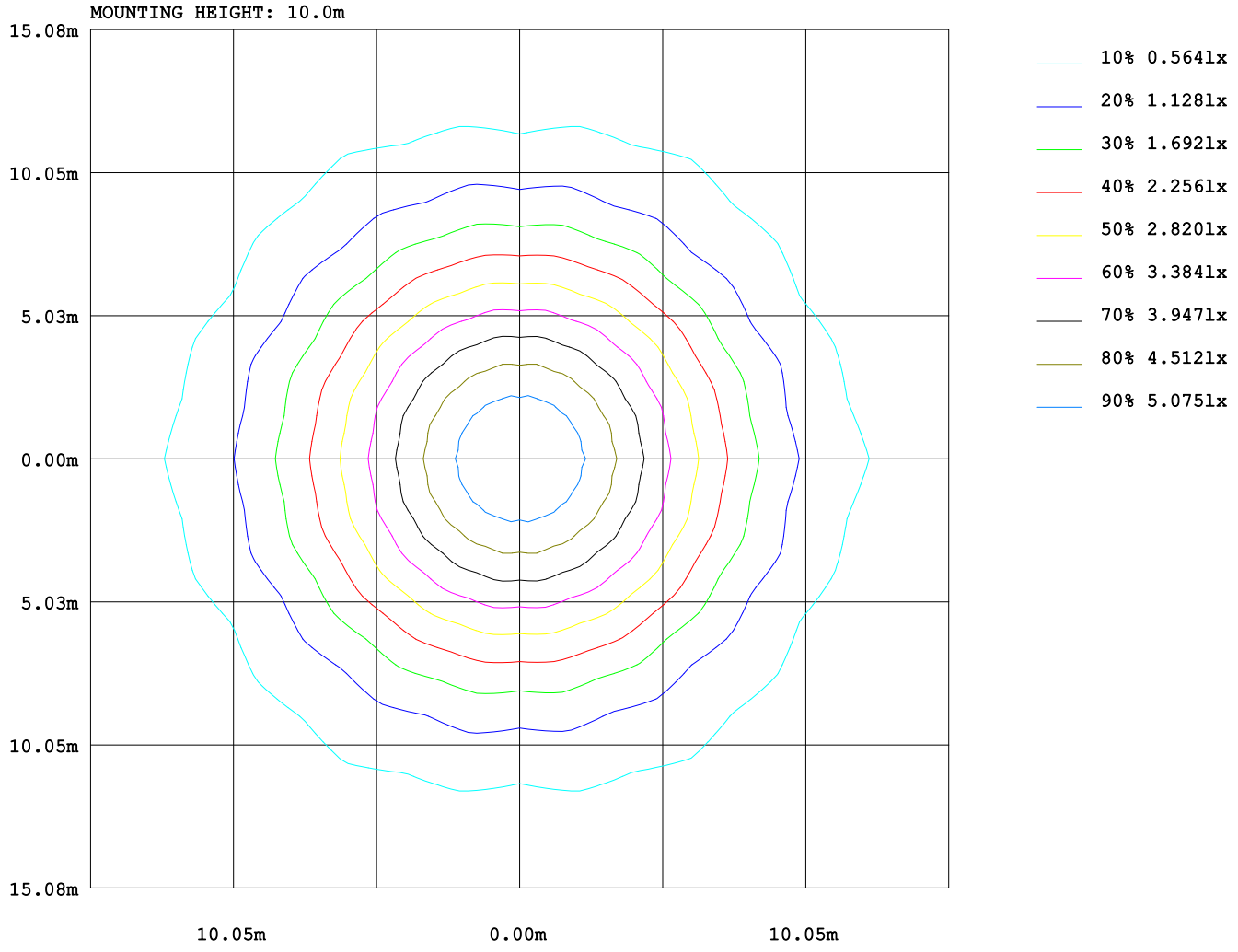
Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

AREA LUMINOUS FLUX

Report number:

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

AREA FLUX DIAGRAM — UNIT:lm

VERTICAL(DEG)	-90	-80	-70	-60	-50	-40	-30	-20	20	30	40	50	60	70	80	90	Φ t	Φ a
90																		
80	0.02	0.08	0.14	0.21	0.31	0.42	0.51	0.54	0.54	0.55	0.57	0.54	0.45	0.32	0.21	0.13	0.07	0.02	5.63	5.17
70	0.03	0.13	0.28	0.42	0.70	1.00	1.28	1.26	1.10	1.12	1.32	1.30	1.00	0.75	0.48	0.30	0.13	0.03	12.6	11.7
60	0.04	0.19	0.41	0.53	0.99	1.62	2.18	2.04	1.82	1.86	2.17	2.24	1.62	1.09	0.63	0.45	0.20	0.04	20.1	18.8
50	0.04	0.24	0.53	0.63	1.29	2.37	3.73	3.89	3.96	4.01	4.01	3.75	2.38	1.41	0.71	0.55	0.25	0.05	33.8	32.1
40	0.05	0.29	0.64	0.90	1.93	3.90	6.24	7.57	8.46	8.37	7.32	5.91	3.69	1.92	0.91	0.63	0.30	0.06	59.1	57.1
30	0.06	0.35	0.78	1.42	2.96	6.33	9.38	11.7	12.8	12.7	11.5	8.87	5.82	2.74	1.34	0.73	0.35	0.07	90.0	87.7
	0.07	0.41	0.94	2.02	4.70	8.50	12.0	14.1	15.0	15.0	14.0	11.8	7.96	4.22	1.86	0.86	0.40	0.07	114	112
	0.07	0.46	1.09	2.51	5.99	10.2	13.2	15.2	16.2	16.2	15.2	13.1	9.86	5.44	2.28	1.02	0.44	0.08	129	126
	0.08	0.49	1.26	3.05	6.65	10.8	13.7	15.7	16.7	16.7	15.7	13.7	10.5	6.18	2.86	1.21	0.48	0.09	136	133
	0.08	0.49	1.26	3.05	6.65	10.8	13.7	15.7	16.7	16.7	15.7	13.7	10.5	6.18	2.86	1.21	0.48	0.09	136	133
	0.07	0.46	1.09	2.51	5.99	10.2	13.2	15.2	16.2	16.2	15.2	13.1	9.86	5.44	2.28	1.02	0.44	0.08	129	126
-30	0.07	0.41	0.94	2.02	4.70	8.50	12.0	14.1	15.0	15.0	14.0	11.8	7.96	4.22	1.86	0.86	0.40	0.07	114	112
-40	0.06	0.35	0.78	1.42	2.96	6.33	9.38	11.7	12.8	12.7	11.5	8.87	5.82	2.74	1.34	0.73	0.35	0.07	90.0	87.7
-50	0.05	0.29	0.64	0.90	1.93	3.90	6.24	7.57	8.46	8.37	7.32	5.91	3.69	1.92	0.91	0.63	0.30	0.06	59.1	57.1
-60	0.04	0.24	0.53	0.63	1.29	2.37	3.73	3.89	3.96	4.01	4.01	3.75	2.38	1.41	0.71	0.55	0.25	0.05	33.8	32.1
-70	0.04	0.19	0.41	0.53	0.99	1.62	2.18	2.04	1.82	1.86	2.17	2.24	1.62	1.09	0.63	0.45	0.20	0.04	20.1	18.8
-80	0.03	0.13	0.28	0.42	0.70	1.00	1.28	1.26	1.10	1.12	1.32	1.30	1.00	0.75	0.48	0.30	0.13	0.03	12.6	11.7
-90	0.02	0.08	0.14	0.21	0.31	0.42	0.51	0.54	0.54	0.55	0.57	0.54	0.45	0.32	0.21	0.13	0.07	0.02	5.63	5.17
HORIZONTAL(DEG)																				
Φ t	0.91	5.29	12.1	23.4	51.1	90.4	125	144	154	154	144	123	86.8	48.2	22.5	11.7	5.23	0.98	1236	
Φ a	0.00	0.00	0.00	23.4	51.1	90.4	125	144	154	154	144	123	86.8	48.2	22.5	0.00	0.00	0.00		1061

Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

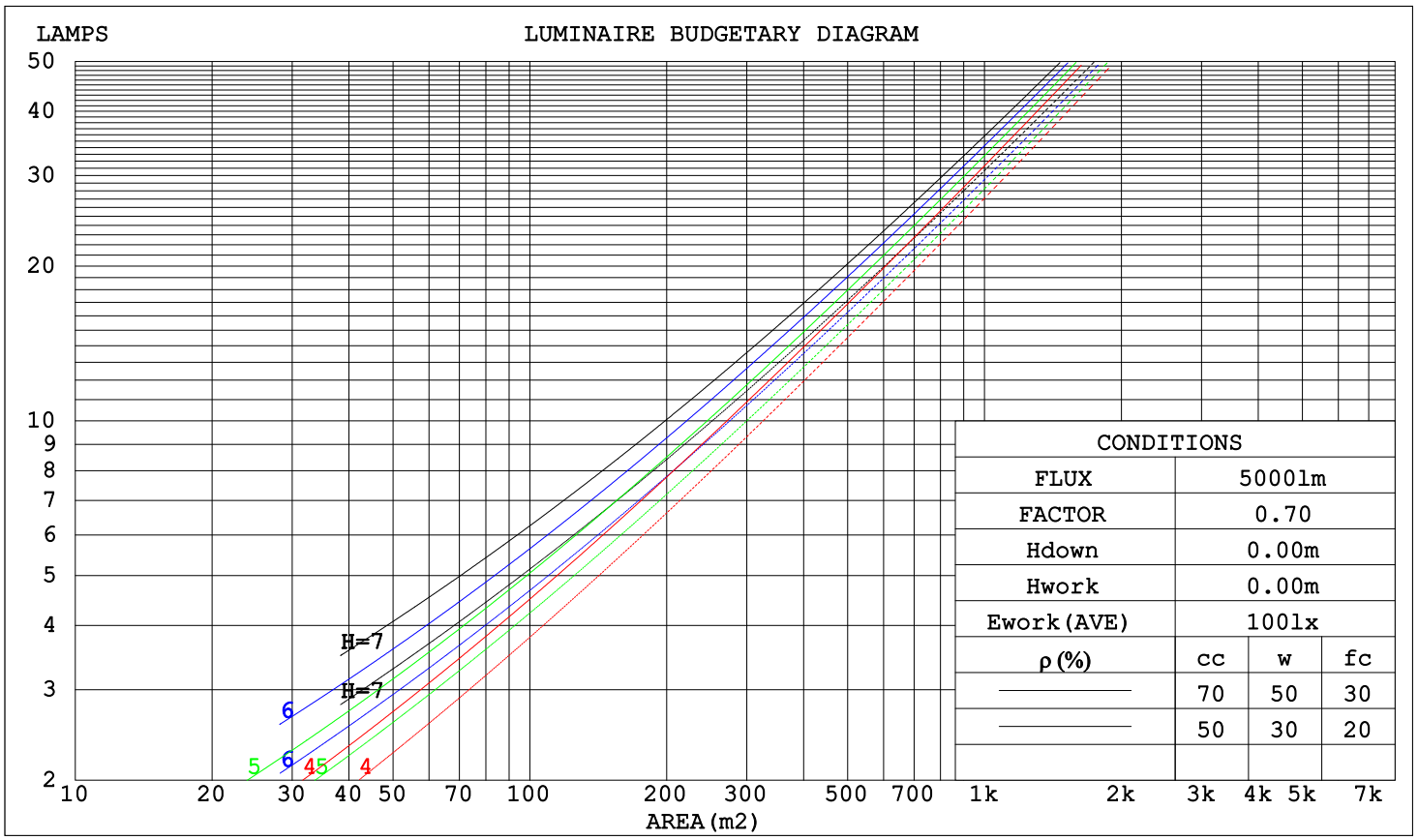
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.04	1.04	1.04	.00	.00	.00	.97
1.0	1.05	1.02	.98	1.03	.00	.97	.98	.96	.93	.94	.92	.90	.90	.88	.87	.84
2.0	.94	.88	.83	.92	.86	.82	.88	.83	.80	.84	.81	.77	.81	.78	.75	.73
3.0	.84	.77	.71	.82	.76	.70	.79	.74	.69	.76	.71	.67	.73	.69	.66	.64
4.0	.76	.68	.62	.74	.67	.61	.72	.65	.60	.69	.64	.59	.67	.62	.58	.56
5.0	.69	.60	.54	.67	.60	.54	.65	.58	.53	.63	.57	.53	.61	.56	.52	.50
6.0	.62	.54	.48	.61	.54	.48	.59	.53	.47	.57	.51	.47	.56	.50	.46	.44
7.0	.57	.49	.43	.56	.48	.43	.54	.48	.43	.53	.47	.42	.51	.46	.42	.40
8.0	.52	.44	.39	.52	.44	.39	.50	.43	.39	.49	.43	.38	.47	.42	.38	.36
9.0	.48	.41	.35	.48	.40	.35	.46	.40	.35	.45	.39	.35	.44	.38	.34	.33
10.0	.45	.37	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32	.41	.35	.32	.30



Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

WEC AND CCEC

Report number:

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

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.268	.152	.048	.260	.148	.047	.246	.141	.045	.232	.134	.043	.220	.127	.041	
2.0	.252	.138	.042	.245	.135	.042	.233	.129	.040	.221	.124	.039	.210	.119	.037	
3.0	.236	.125	.038	.230	.123	.037	.218	.118	.036	.208	.114	.035	.198	.110	.034	
4.0	.220	.114	.034	.215	.112	.033	.205	.109	.032	.195	.105	.032	.187	.102	.031	
5.0	.206	.105	.030	.201	.103	.030	.192	.100	.029	.184	.097	.029	.176	.094	.028	
6.0	.193	.097	.028	.188	.095	.027	.181	.093	.027	.173	.090	.026	.166	.087	.026	
7.0	.181	.089	.025	.177	.088	.025	.170	.086	.025	.163	.084	.024	.157	.082	.024	
8.0	.170	.083	.023	.167	.082	.023	.161	.080	.023	.155	.078	.023	.149	.076	.022	
9.0	.161	.078	.022	.158	.077	.022	.152	.075	.021	.146	.073	.021	.141	.072	.021	
10.0	.152	.073	.020	.149	.072	.020	.144	.071	.020	.139	.069	.020	.134	.068	.019	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.211	.211	.211	.180	.180	.180	.123	.123	.123	.071	.071	.071	.023	.023	.023	
1.0	.198	.177	.158	.169	.152	.136	.116	.104	.094	.067	.060	.055	.021	.019	.018	
2.0	.187	.152	.123	.160	.131	.106	.110	.091	.074	.063	.053	.044	.020	.017	.014	
3.0	.178	.135	.100	.153	.116	.086	.105	.081	.061	.061	.047	.036	.019	.015	.012	
4.0	.170	.121	.083	.146	.104	.072	.100	.073	.051	.058	.043	.030	.019	.014	.010	
5.0	.163	.110	.071	.140	.095	.062	.096	.067	.044	.056	.039	.026	.018	.013	.009	
6.0	.156	.102	.063	.134	.088	.055	.092	.062	.039	.054	.036	.023	.017	.012	.008	
7.0	.149	.095	.056	.129	.082	.049	.089	.058	.035	.052	.034	.021	.017	.011	.007	
8.0	.143	.089	.051	.123	.077	.045	.085	.054	.032	.050	.032	.019	.016	.010	.006	
9.0	.138	.084	.048	.119	.073	.041	.082	.051	.029	.048	.030	.018	.016	.010	.006	
10.0	.133	.080	.045	.114	.069	.039	.079	.049	.028	.046	.029	.016	.015	.009	.005	

Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

Uncorrected UGR Table

Report number:

MANUFACTURER:	**Address:**	
NAME:	**TYPE:**	**WEIGHT:**
SPECIFICATION:	**DIMENSION:**	**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	15.2	16.5	15.5	16.8	17.0	15.5	16.9	15.8	17.1	17.3
3H	16.1	17.3	16.4	17.6	17.9	16.1	17.3	16.4	17.6	17.8
4H	16.7	17.9	17.1	18.2	18.5	16.4	17.6	16.8	17.9	18.2
6H	17.4	18.5	17.7	18.8	19.1	16.9	17.9	17.2	18.2	18.6
8H	17.7	18.7	18.1	19.1	19.4	17.1	18.1	17.5	18.4	18.8
12H	18.0	19.0	18.4	19.3	19.7	17.2	18.2	17.6	18.6	18.9
4H 2H	15.4	16.6	15.8	16.9	17.2	15.7	16.9	16.1	17.2	17.5
3H	16.4	17.4	16.8	17.7	18.1	16.7	17.7	17.1	18.0	18.4
4H	17.2	18.1	17.6	18.5	18.9	17.2	18.2	17.7	18.5	18.9
6H	18.1	18.9	18.5	19.3	19.7	17.9	18.7	18.3	19.1	19.5
8H	18.5	19.2	18.9	19.6	20.1	18.2	19.0	18.7	19.4	19.8
12H	18.8	19.5	19.3	19.9	20.4	18.5	19.2	18.9	19.6	20.0
8H 4H	17.5	18.2	17.9	18.6	19.1	17.5	18.2	17.9	18.6	19.1
6H	18.5	19.1	19.0	19.6	20.0	18.3	19.0	18.8	19.4	19.9
8H	19.0	19.5	19.5	20.0	20.5	18.8	19.4	19.3	19.8	20.4
12H	19.4	19.9	19.9	20.4	20.9	19.2	19.7	19.7	20.2	20.7
12H 4H	17.5	18.2	18.0	18.6	19.1	17.5	18.2	18.0	18.6	19.1
6H	18.6	19.1	19.1	19.6	20.1	18.4	19.0	18.9	19.5	20.0
8H	19.1	19.6	19.7	20.1	20.6	19.0	19.5	19.5	20.0	20.5

Variations with the observer position at spacings:		
S = 1.0H	+ 0.4 / - 0.5	+ 0.4 / - 0.6
1.5H	+ 0.5 / - 0.7	+ 0.3 / - 0.8
2.0H	+ 1.4 / - 1.0	+ 0.7 / - 1.5

CIE Pub.117 Corrected 1236 lm Total Lamp Luminous Flux.(8log(F/F0) = 0.7)

Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:	**Address:**	
NAME:	**TYPE:**	**WEIGHT:**
SPECIFICATION:	**DIMENSION:**	**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) x RCR = 5									
k = 0.60	65	55	48	64	54	48	63	54	48	42
0.80	75	65	58	73	64	58	72	63	57	51
1.00	82	73	67	81	72	66	79	73	66	59
1.25	89	80	74	87	79	73	84	77	72	66
1.50	93	85	79	91	84	78	88	82	77	70
2.00	99	92	86	97	90	85	93	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	104	99	94	102	97	93	98	94	90	82
4.00	108	103	99	105	101	97	101	97	94	85
5.00	110	105	102	107	103	100	102	99	97	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

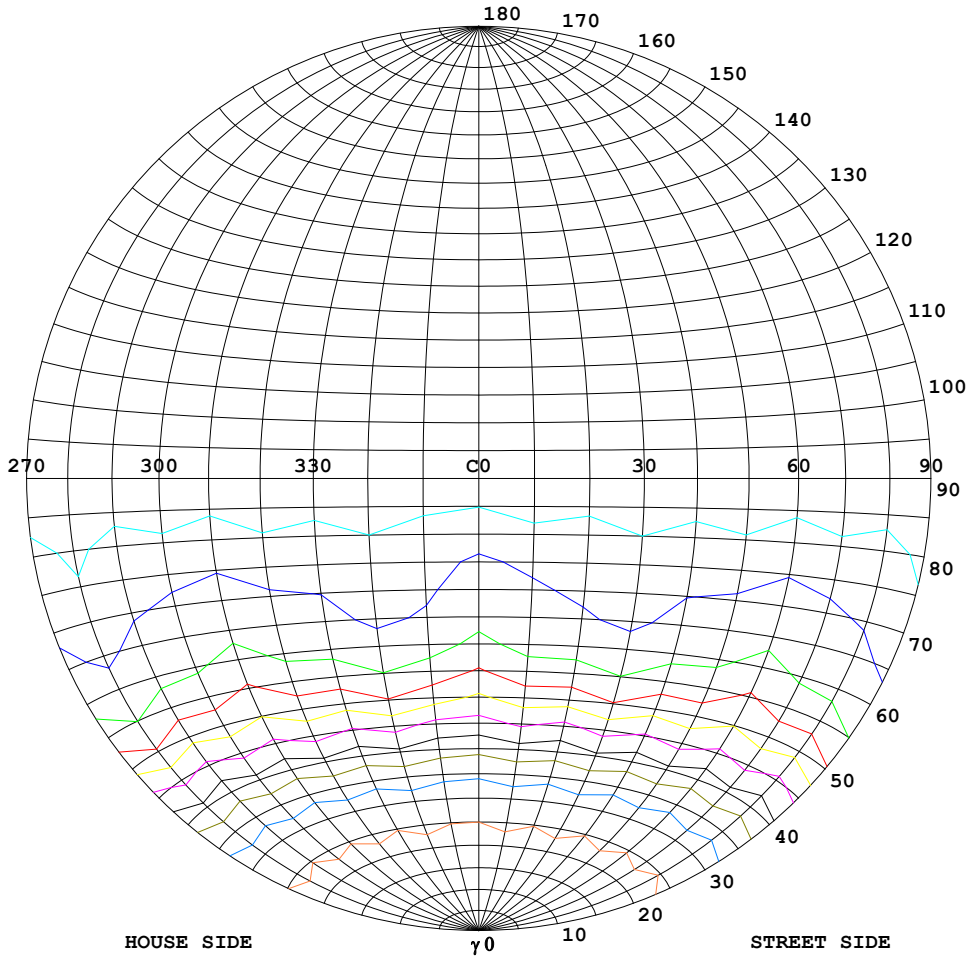
Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



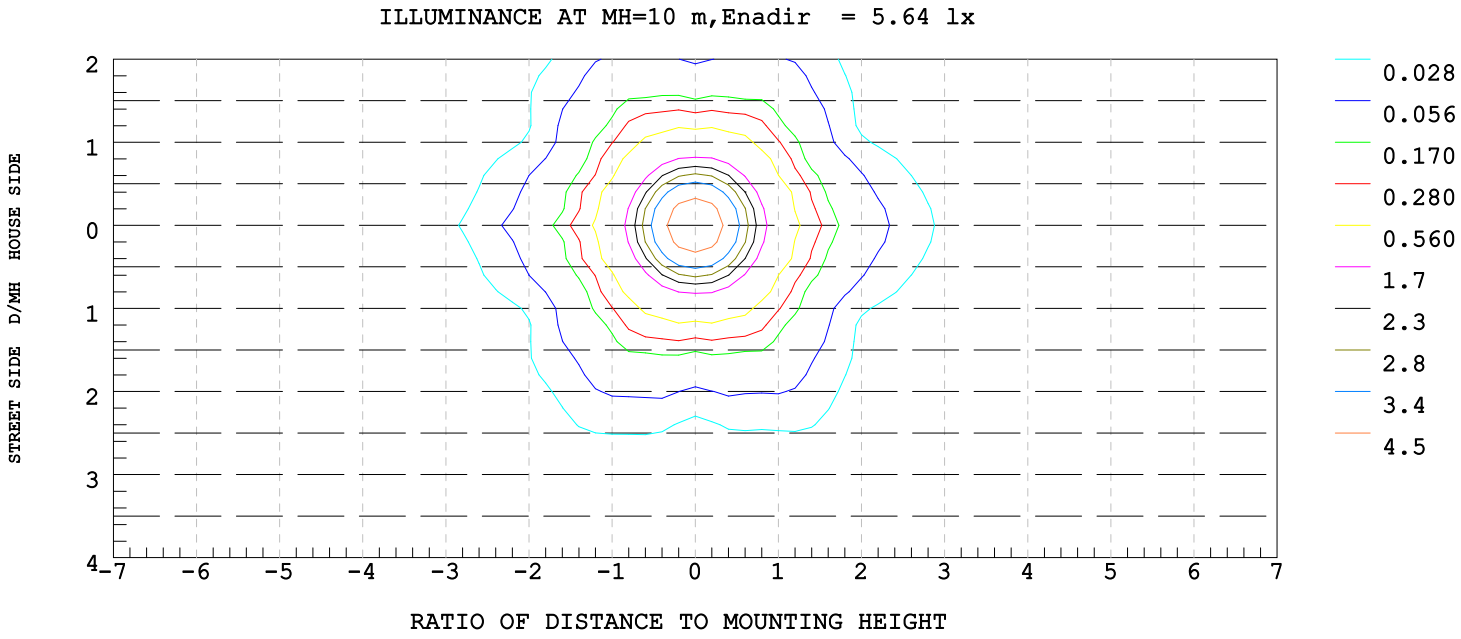
Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

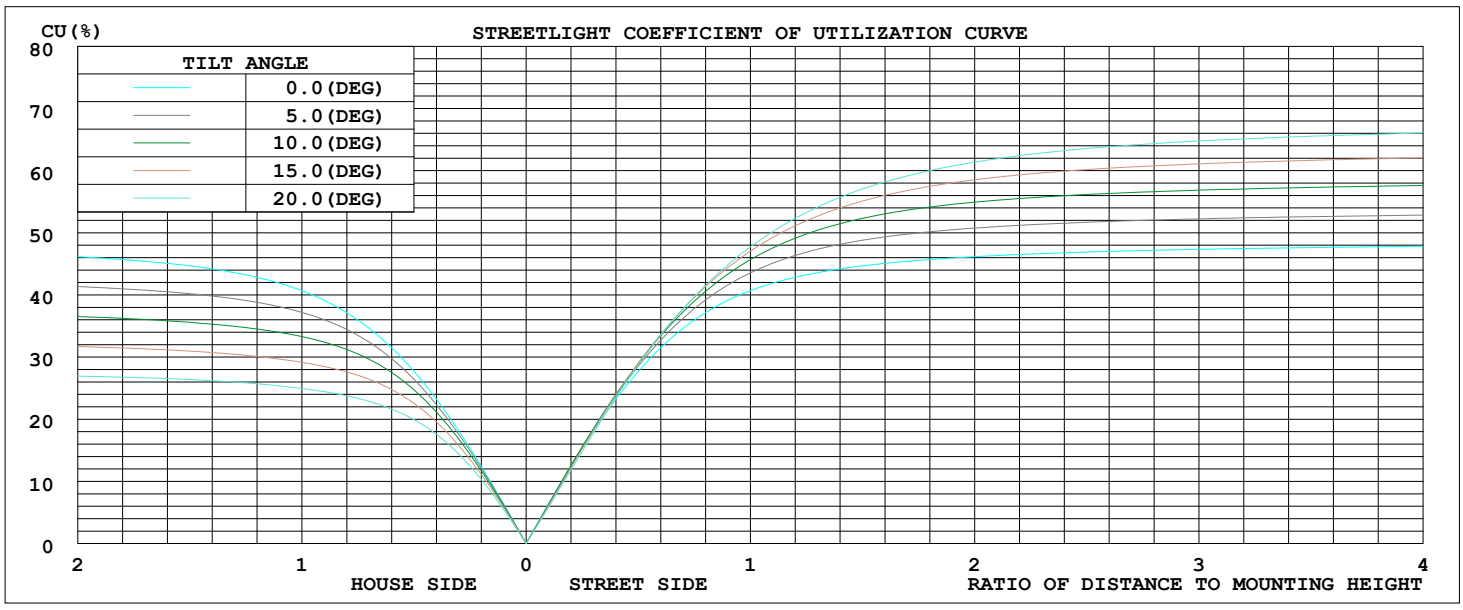
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:





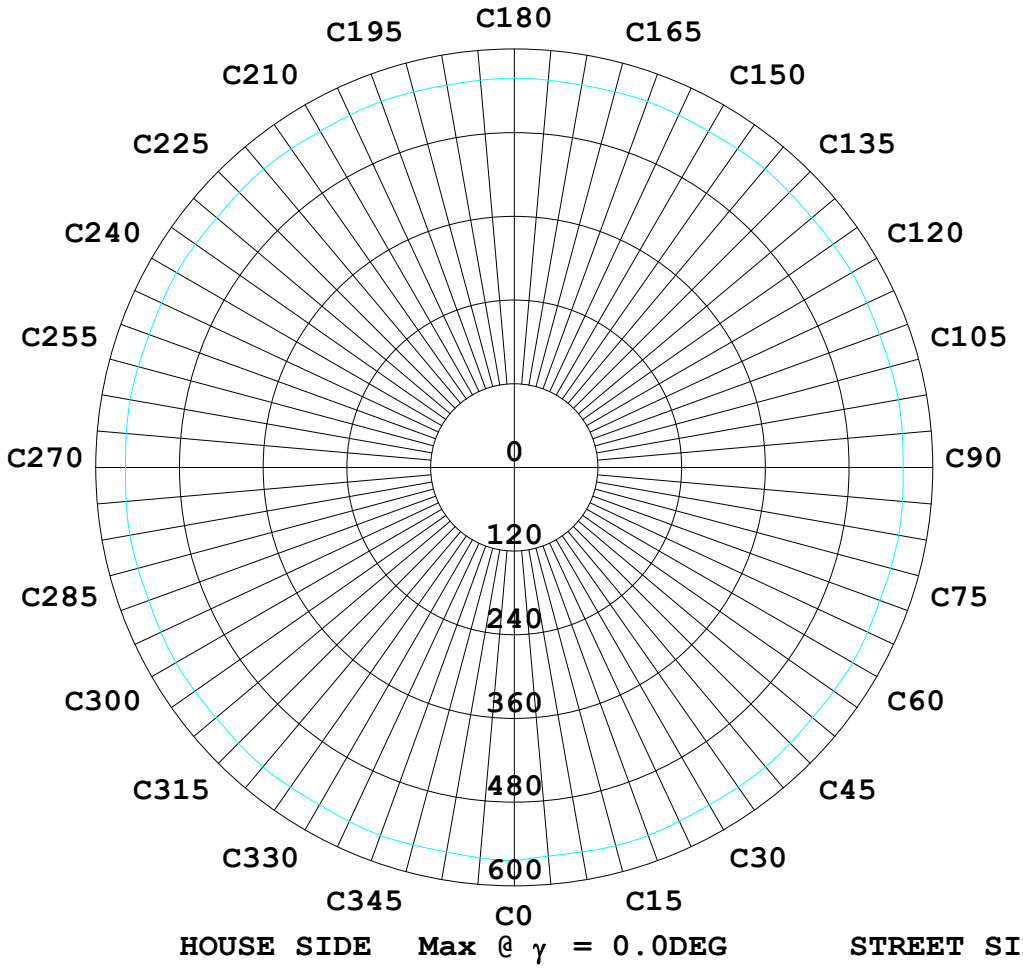
Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:	Address:	
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

C(DEG) / γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
0.0	564	560	562	559	561	558	560	558	560	557	559	557	559	557	559
5.0	562	557	560	556	560	556	559	556	559	555	559	555	559	555	559
10.0	556	550	554	549	553	549	553	549	553	548	553	549	553	548	553
15.0	545	538	543	537	542	536	542	537	542	537	542	537	543	537	543
20.0	529	521	527	520	526	520	526	520	527	521	527	521	527	521	527
25.0	507	499	507	499	506	499	506	499	506	499	507	500	507	500	507
30.0	481	471	480	470	480	470	479	470	479	470	480	472	481	473	482
35.0	444	432	439	428	438	430	439	428	435	425	437	432	443	436	446
40.0	380	358	372	348	369	351	372	354	372	351	376	364	384	368	389
45.0	302	273	297	261	287	263	293	266	293	267	301	279	311	287	312
50.0	234	197	201	171	206	195	224	198	208	174	208	201	237	210	224
55.0	175	135	135	114	139	141	176	145	141	112	137	139	178	147	149
60.0	126	94.9	91.0	72.5	98.1	102	132	105	96.0	71.9	94.3	98.5	131	103	96.8
65.0	97.0	72.3	61.2	47.4	69.7	77.8	97.3	78.7	68.4	47.7	65.4	73.0	95.5	77.3	63.4
70.0	78.6	61.2	49.7	36.8	55.5	60.1	74.9	62.5	52.3	35.7	50.3	58.3	75.4	60.7	47.4
75.0	61.5	50.0	46.2	33.1	47.0	43.7	54.4	48.2	44.7	29.8	43.2	46.2	55.8	44.4	40.5
80.0	44.0	35.1	39.0	28.2	36.2	30.1	38.1	32.5	35.5	24.1	34.4	31.2	37.4	29.4	33.1
85.0	27.7	17.8	22.7	14.5	21.4	17.7	25.4	17.5	23.1	15.8	21.9	16.5	23.4	15.7	20.9
90.0	7.70	2.00	7.20	1.40	7.00	1.60	8.00	1.60	7.30	1.50	7.40	2.00	8.80	2.50	8.00
95.0	4.70	1.10	4.20	1.10	4.30	1.20	4.50	1.10	4.20	1.00	4.20	1.10	4.50	1.00	4.20
100.0	4.20	1.40	3.90	1.30	3.90	1.40	4.00	1.30	3.80	1.30	3.80	1.40	4.10	1.30	3.80
105.0	4.10	1.80	3.80	1.80	3.80	1.80	3.90	1.70	3.70	1.70	3.70	1.70	3.90	1.70	3.70
110.0	4.40	2.40	4.10	2.40	4.00	2.30	4.00	2.20	3.90	2.20	3.90	2.20	4.00	2.20	3.90
115.0	4.80	3.20	4.60	3.20	4.50	3.00	4.40	2.90	4.30	2.90	4.30	2.90	4.40	2.90	4.30
120.0	5.40	4.10	5.20	4.00	5.00	3.80	5.00	3.80	4.90	3.70	4.80	3.70	4.90	3.70	4.90
125.0	6.10	5.00	5.90	4.90	5.70	4.70	5.70	4.60	5.60	4.60	5.50	4.50	5.60	4.50	5.60
130.0	6.80	5.80	6.60	5.70	6.40	5.50	6.30	5.50	6.30	5.50	6.20	5.40	6.30	5.40	6.30
135.0	7.50	6.60	7.30	6.40	7.00	6.20	6.90	6.20	7.00	6.30	6.90	6.20	6.90	6.20	6.90
140.0	8.10	7.30	7.80	7.10	7.60	6.90	7.50	6.80	7.50	6.90	7.50	6.90	7.50	6.80	7.40
145.0	8.60	7.90	8.29	7.60	8.10	7.50	7.90	7.40	8.00	7.50	8.00	7.50	8.00	7.40	7.90
150.0	9.00	8.40	8.70	8.10	8.60	8.00	8.40	7.90	8.40	8.00	8.50	8.00	8.50	7.90	8.40
155.0	9.30	8.90	9.09	8.60	8.90	8.50	8.80	8.29	8.80	8.50	8.90	8.50	8.90	8.40	8.90
160.0	9.60	9.30	9.40	9.00	9.20	8.90	9.20	8.80	9.09	8.90	9.30	9.00	9.30	8.90	9.30
165.0	10.0	9.60	9.70	9.30	9.50	9.30	9.50	9.20	9.50	9.30	9.70	9.40	9.70	9.30	9.60
170.0	10.1	9.80	9.90	9.50	9.70	9.50	9.80	9.40	9.70	9.60	10.0	9.60	9.90	9.60	9.90
175.0	10.1	9.80	9.90	9.50	9.80	9.50	9.90	9.50	9.80	9.80	10.1	9.70	10.0	9.70	10.0
180.0	10.0	9.80	9.80	9.50	9.70	9.60	9.80	9.60	9.90	9.90	10.0	9.70	9.90	9.70	9.80

Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

C(DEG) / γ (DEG)	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290
0.0	557	559	557	558	557	559	557	559	557	559	557	559	557	560	558
5.0	555	559	555	558	555	559	555	559	555	559	555	559	555	559	556
10.0	548	553	549	553	549	553	548	553	548	553	549	553	548	553	549
15.0	537	543	537	543	537	543	537	543	537	543	537	542	537	542	537
20.0	521	527	522	527	522	527	521	527	521	527	521	527	521	527	520
25.0	500	507	500	507	500	507	500	507	500	507	500	507	499	506	499
30.0	473	482	473	482	473	482	473	482	473	481	472	480	470	479	470
35.0	437	447	439	448	439	447	437	446	436	443	432	437	425	435	428
40.0	370	393	378	396	378	393	370	389	368	384	364	376	351	372	354
45.0	287	321	303	322	303	321	287	312	287	311	279	301	267	293	266
50.0	192	230	220	248	220	230	192	224	210	237	201	208	174	208	198
55.0	120	149	150	182	150	149	120	149	147	178	139	137	112	141	145
60.0	73.5	96.6	103	131	103	96.6	73.5	96.8	103	131	98.5	94.3	71.9	96.0	105
65.0	45.2	64.7	79.4	97.7	79.4	64.7	45.2	63.4	77.3	95.5	73.0	65.4	47.7	68.4	78.7
70.0	31.9	52.0	67.9	81.1	67.9	52.0	31.9	47.4	60.7	75.4	58.3	50.3	35.7	52.3	62.5
75.0	26.8	46.0	52.1	63.3	52.1	46.0	26.8	40.5	44.4	55.8	46.2	43.2	29.8	44.7	48.2
80.0	22.9	36.7	33.8	42.2	33.8	36.7	22.9	33.1	29.4	37.4	31.2	34.4	24.1	35.5	32.5
85.0	13.9	23.0	16.7	23.6	16.7	23.0	13.9	20.9	15.7	23.4	16.5	21.9	15.8	23.1	17.5
90.0	2.50	9.00	3.50	8.40	3.50	9.00	2.50	8.00	2.50	8.80	2.00	7.40	1.50	7.30	1.60
95.0	1.00	4.30	1.10	4.60	1.10	4.30	1.00	4.20	1.00	4.50	1.10	4.20	1.00	4.20	1.10
100.0	1.30	3.90	1.40	4.10	1.40	3.90	1.30	3.80	1.30	4.10	1.40	3.80	1.30	3.80	1.30
105.0	1.70	3.80	1.80	4.00	1.80	3.80	1.70	3.70	1.70	3.90	1.70	3.70	1.70	3.70	1.70
110.0	2.30	4.00	2.30	4.10	2.30	4.00	2.30	3.90	2.20	4.00	2.20	3.90	2.20	3.90	2.20
115.0	3.00	4.40	3.00	4.50	3.00	4.40	3.00	4.30	2.90	4.40	2.90	4.30	2.90	4.30	2.90
120.0	3.80	5.00	3.80	5.00	3.80	5.00	3.80	4.90	3.70	4.90	3.70	4.80	3.70	4.90	3.80
125.0	4.70	5.60	4.60	5.70	4.60	5.60	4.70	5.60	4.50	5.60	4.50	5.50	4.60	5.60	4.60
130.0	5.50	6.30	5.50	6.40	5.50	6.30	5.50	6.30	5.40	6.30	5.40	6.20	5.50	6.30	5.50
135.0	6.20	7.00	6.30	7.10	6.30	7.00	6.20	6.90	6.20	6.90	6.20	6.90	6.30	7.00	6.20
140.0	6.90	7.60	7.00	7.70	7.00	7.60	6.90	7.40	6.80	7.50	6.90	7.50	6.90	7.50	6.80
145.0	7.50	8.10	7.60	8.20	7.60	8.10	7.50	7.90	7.40	8.00	7.50	8.00	7.50	8.00	7.40
150.0	8.00	8.50	8.10	8.60	8.10	8.50	8.00	8.40	7.90	8.50	8.00	8.50	8.00	8.40	7.90
155.0	8.50	9.00	8.60	9.09	8.60	9.00	8.50	8.90	8.40	8.90	8.50	8.90	8.50	8.80	8.29
160.0	8.90	9.30	9.00	9.40	9.00	9.30	8.90	9.30	8.90	9.30	9.00	9.30	8.90	9.09	8.80
165.0	9.30	9.60	9.30	9.80	9.30	9.60	9.30	9.60	9.30	9.70	9.40	9.70	9.30	9.50	9.20
170.0	9.50	9.80	9.50	10.0	9.50	9.80	9.50	9.90	9.60	9.90	9.60	10.0	9.60	9.70	9.40
175.0	9.60	9.90	9.60	10.0	9.60	9.90	9.60	10.0	9.70	10.0	9.70	10.1	9.80	9.80	9.50
180.0	9.70	9.90	9.70	10.0	9.70	9.90	9.70	9.80	9.70	9.90	9.70	10.0	9.90	9.90	9.60

Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

γ (DEG) \ C(DEG)	300	310	320	330	340	350
0.0	560	558	561	559	562	560
5.0	559	556	560	556	560	557
10.0	553	549	553	549	554	550
15.0	542	536	542	537	543	538
20.0	526	520	526	520	527	521
25.0	506	499	506	499	507	499
30.0	479	470	480	470	480	471
35.0	439	430	438	428	439	432
40.0	372	351	369	348	372	358
45.0	293	263	287	261	297	273
50.0	224	195	206	171	201	197
55.0	176	141	139	114	135	135
60.0	132	102	98.1	72.5	91.0	94.9
65.0	97.3	77.8	69.7	47.4	61.2	72.3
70.0	74.9	60.1	55.5	36.8	49.7	61.2
75.0	54.4	43.7	47.0	33.1	46.2	50.0
80.0	38.1	30.1	36.2	28.2	39.0	35.1
85.0	25.4	17.7	21.4	14.5	22.7	17.8
90.0	8.00	1.60	7.00	1.40	7.20	2.00
95.0	4.50	1.20	4.30	1.10	4.20	1.10
100.0	4.00	1.40	3.90	1.30	3.90	1.40
105.0	3.90	1.80	3.80	1.80	3.80	1.80
110.0	4.00	2.30	4.00	2.40	4.10	2.40
115.0	4.40	3.00	4.50	3.20	4.60	3.20
120.0	5.00	3.80	5.00	4.00	5.20	4.10
125.0	5.70	4.70	5.70	4.90	5.90	5.00
130.0	6.30	5.50	6.40	5.70	6.60	5.80
135.0	6.90	6.20	7.00	6.40	7.30	6.60
140.0	7.50	6.90	7.60	7.10	7.80	7.30
145.0	7.90	7.50	8.10	7.60	8.29	7.90
150.0	8.40	8.00	8.60	8.10	8.70	8.40
155.0	8.80	8.50	8.90	8.60	9.09	8.90
160.0	9.20	8.90	9.20	9.00	9.40	9.30
165.0	9.50	9.30	9.50	9.30	9.70	9.60
170.0	9.80	9.50	9.70	9.50	9.90	9.80
175.0	9.90	9.50	9.80	9.50	9.90	9.80
180.0	9.80	9.60	9.70	9.50	9.80	9.80

Test System:HOPOO HPG1900
Temperature:25.3DEG
Operators:
Test Date:2025年03月26日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks: