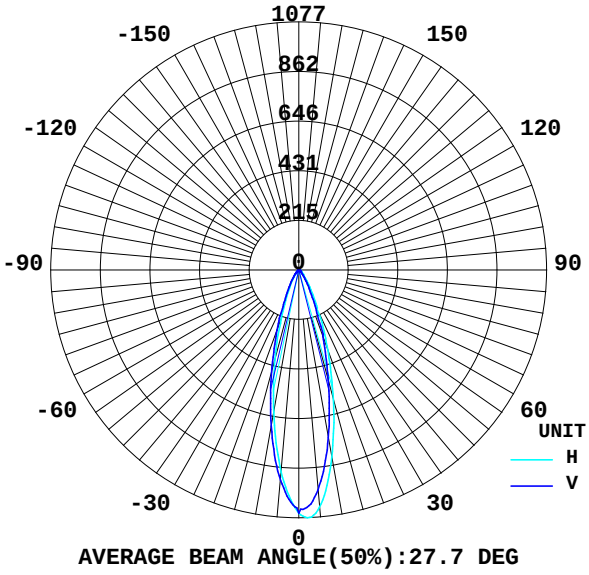
LUMINAIRE PHOTOMETRIC TEST REPORT

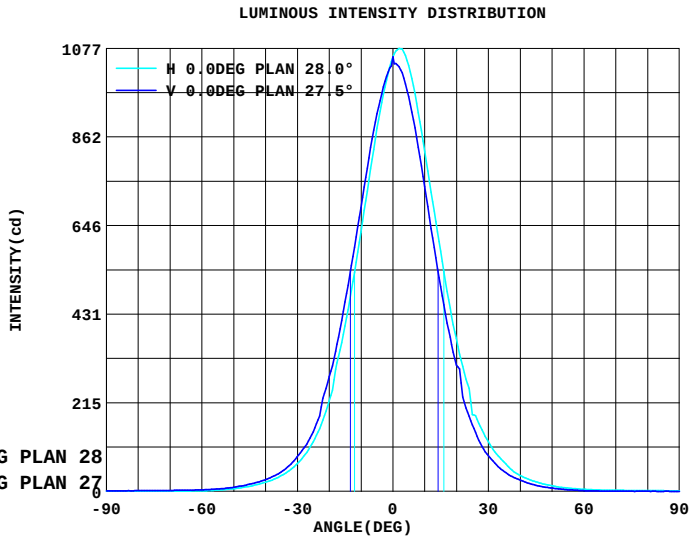
Report number:

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

MODEL:					
NOMINAL POWER(W):	7	Imax(cd):	1077	Voltage(V)	24.00
RATED VOLTAGE(V):	24	AVAILABILITY(%):	80.8	Current(A)	0.283
NOMINAL FLUX(lm):	353	Avai. FLUX(lm):	285.0	Power(W)	6.810
TEST FLUX(lm):	353	EFFICIENCY(%):	100.0	Power Factor(PF)	1.000
LAMPS QUANTITY :	1	TOTAL FLUX(lm):	352.8	EFFICIENCY(lm/W)	51.8
Effictive Flux(lm) :	285.0	θ @50%(H, V):	28.0,27.9DEG	EEI:	0.236



AVERAGE BEAM ANGLE(50%):27.7 DEG



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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

Color Temperature Data List

Report number:

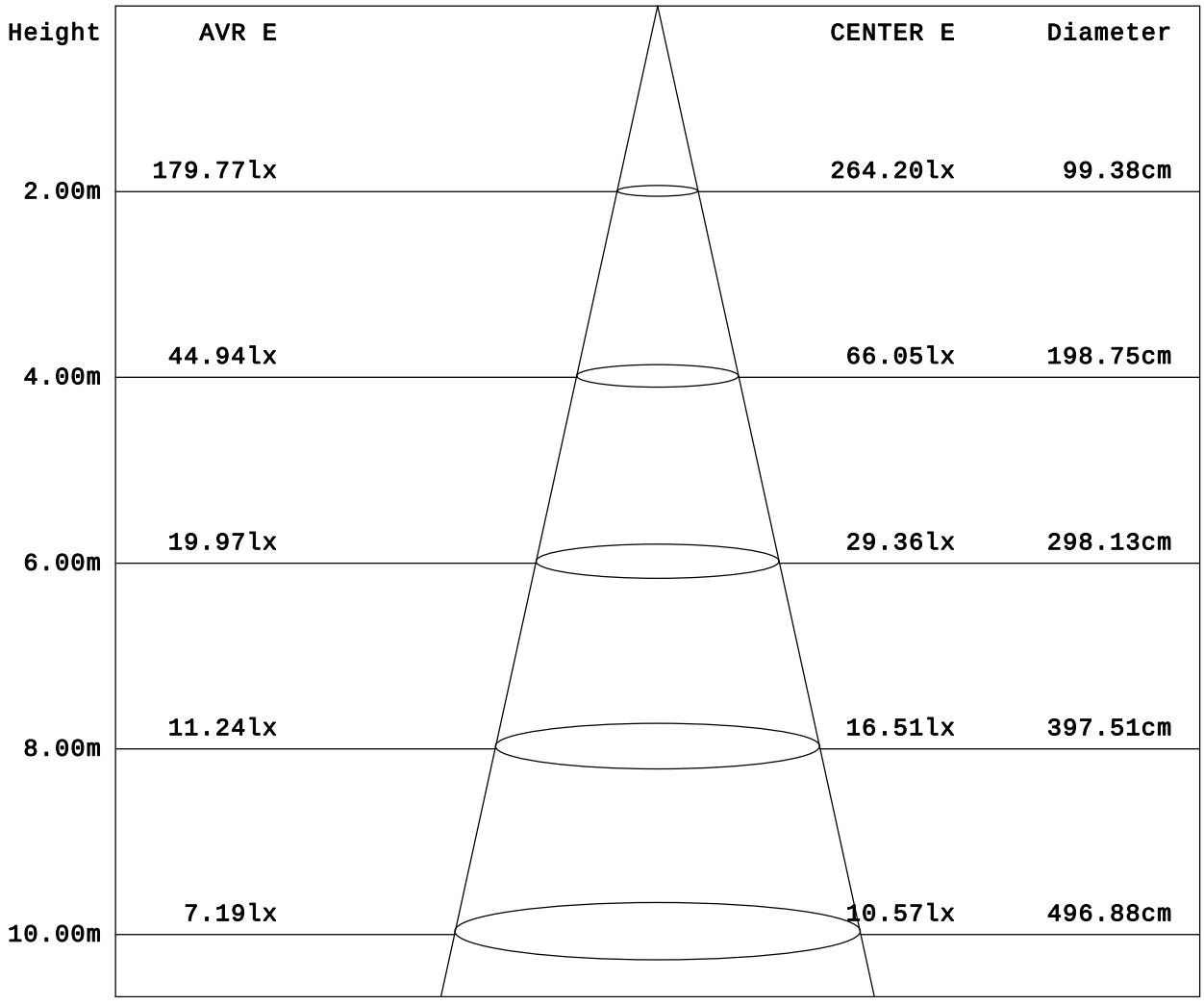
MANUFACTURER:		
Address:		
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

Test System:HOPOO HPG1800 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07月28日 Remarks:

AVERAGE AND CENTER E Figure

Report number:

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



Angle:27.9deg

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28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)	-45	-40	-35	-30	-25	-20	-15	-10	10	15	20	25	30	35	40	45	Φ t	Φ a
45	0.03	0.04	0.05	0.07	0.09	0.11	0.13	0.15	0.15	0.16	0.16	0.15	0.13	0.11	0.09	0.07	0.05	0.04	1.79	0.00
40	0.03	0.05	0.08	0.11	0.14	0.18	0.22	0.25	0.27	0.29	0.29	0.27	0.24	0.19	0.14	0.11	0.07	0.05	2.99	0.00
35	0.04	0.07	0.11	0.16	0.22	0.29	0.37	0.44	0.49	0.51	0.51	0.47	0.40	0.31	0.23	0.15	0.10	0.06	4.93	0.00
30	0.05	0.09	0.14	0.22	0.33	0.47	0.63	0.78	0.89	0.93	0.90	0.80	0.65	0.49	0.34	0.22	0.13	0.08	8.15	2.76
25	0.06	0.11	0.19	0.31	0.49	0.74	1.05	1.40	1.68	1.77	1.67	1.39	1.04	0.74	0.48	0.30	0.18	0.10	13.7	10.6
20	0.08	0.14	0.24	0.41	0.69	1.12	1.79	2.45	2.89	3.05	2.87	2.35	1.69	1.04	0.65	0.39	0.22	0.13	22.2	19.6
15	0.09	0.16	0.28	0.51	0.90	1.63	2.62	3.65	4.47	4.76	4.41	3.49	2.38	1.42	0.82	0.48	0.26	0.15	32.5	30.2
	0.09	0.17	0.32	0.59	1.09	2.05	3.37	4.91	6.17	6.63	6.03	4.54	2.99	1.78	0.97	0.55	0.30	0.16	42.7	40.7
	0.10	0.18	0.33	0.62	1.17	2.25	3.79	5.66	7.27	7.87	6.96	5.14	3.35	1.99	1.05	0.59	0.32	0.17	48.8	46.8
	0.09	0.18	0.32	0.60	1.12	2.16	3.64	5.40	6.94	7.66	6.75	5.01	3.27	1.93	1.02	0.58	0.31	0.17	47.1	45.1
	0.09	0.16	0.30	0.53	0.97	1.79	2.97	4.32	5.68	6.20	5.52	4.18	2.78	1.61	0.90	0.51	0.28	0.15	39.0	36.8
-15	0.08	0.14	0.25	0.44	0.75	1.26	2.14	3.14	4.06	4.37	3.95	3.07	2.06	1.20	0.72	0.43	0.24	0.13	28.4	26.0
-20	0.06	0.12	0.20	0.34	0.54	0.85	1.36	2.05	2.58	2.76	2.53	1.96	1.30	0.85	0.54	0.34	0.19	0.11	18.7	15.8
-25	0.05	0.09	0.15	0.25	0.38	0.57	0.85	1.18	1.47	1.57	1.40	1.11	0.82	0.56	0.39	0.25	0.15	0.09	11.3	7.82
-30	0.04	0.07	0.11	0.17	0.26	0.38	0.53	0.69	0.81	0.85	0.79	0.66	0.51	0.38	0.27	0.17	0.11	0.07	6.86	1.54
-35	0.03	0.05	0.08	0.12	0.18	0.25	0.33	0.40	0.46	0.48	0.45	0.40	0.33	0.25	0.17	0.12	0.08	0.05	4.21	0.00
-40	0.02	0.03	0.05	0.08	0.11	0.16	0.20	0.24	0.27	0.28	0.27	0.24	0.20	0.15	0.11	0.08	0.06	0.04	2.58	0.00
-45	0.01	0.02	0.03	0.05	0.07	0.10	0.12	0.15	0.16	0.17	0.16	0.14	0.12	0.10	0.07	0.05	0.04	0.02	1.58	0.00
HORIZONTAL(DEG)																				
Φ t	1.03	1.86	3.23	5.56	9.51	16.3	26.1	37.3	46.7	50.3	45.6	35.4	24.2	15.1	8.99	5.37	3.09	1.77	353	
Φ a	0.00	0.00	0.00	0.37	5.68	13.1	23.3	34.6	44.2	47.8	43.1	32.8	21.4	12.0	5.07	0.29	0.00	0.00		285

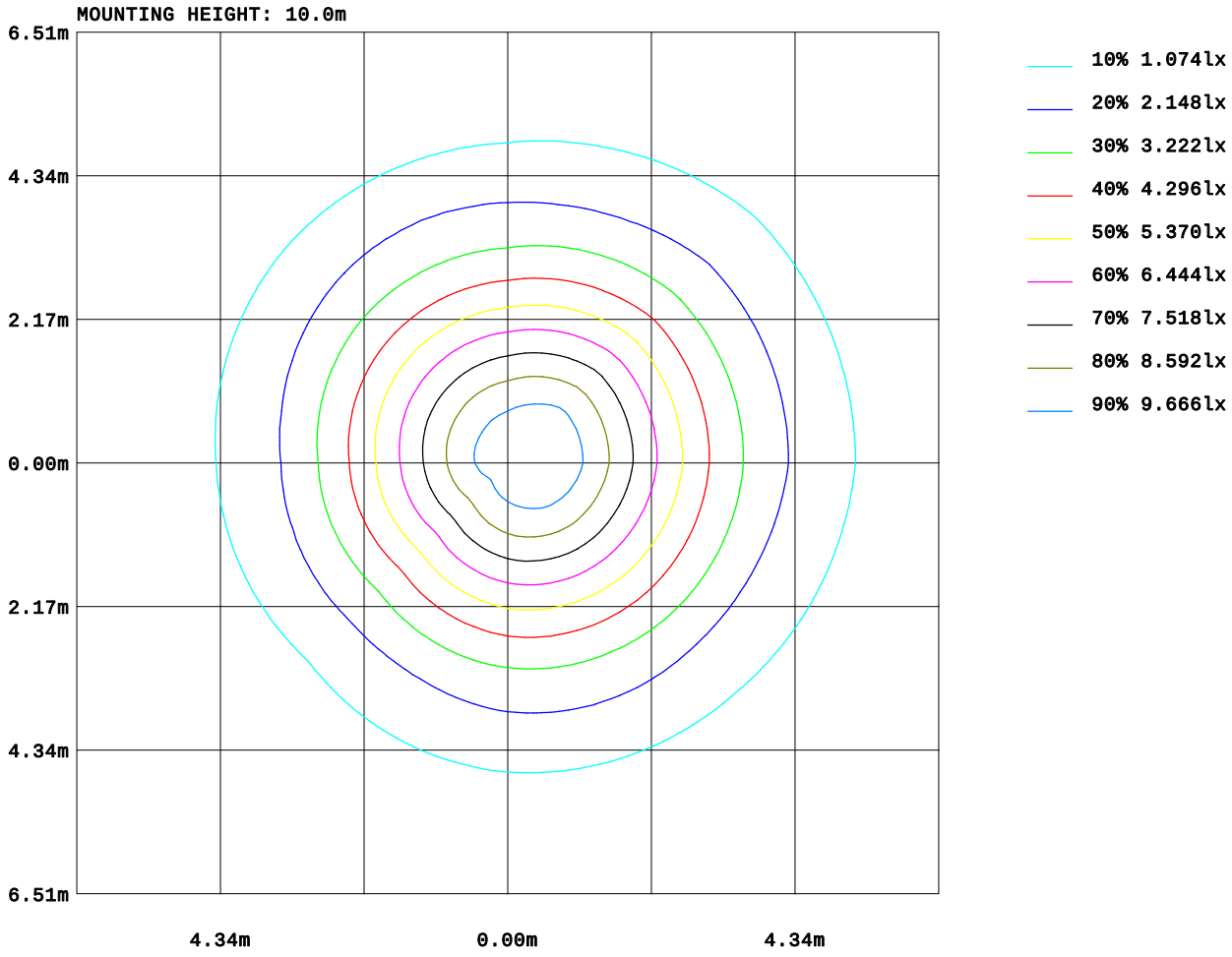
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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.:



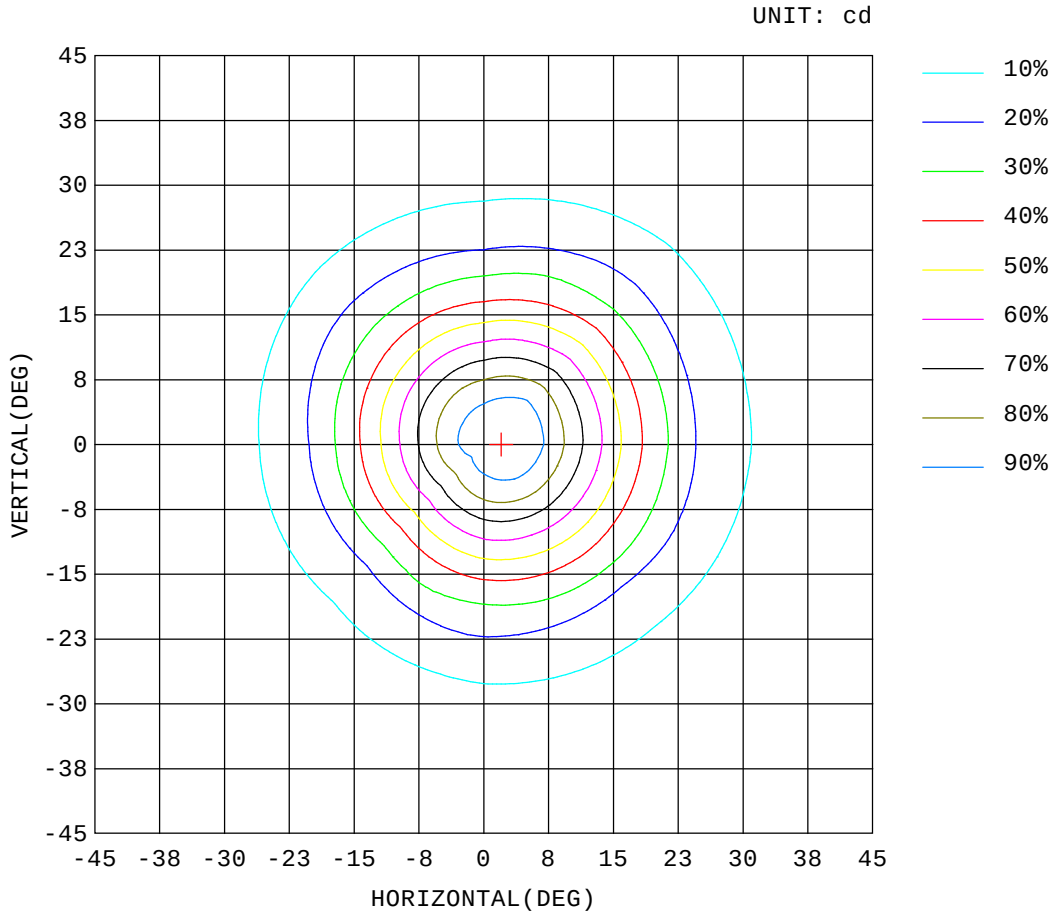
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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 HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

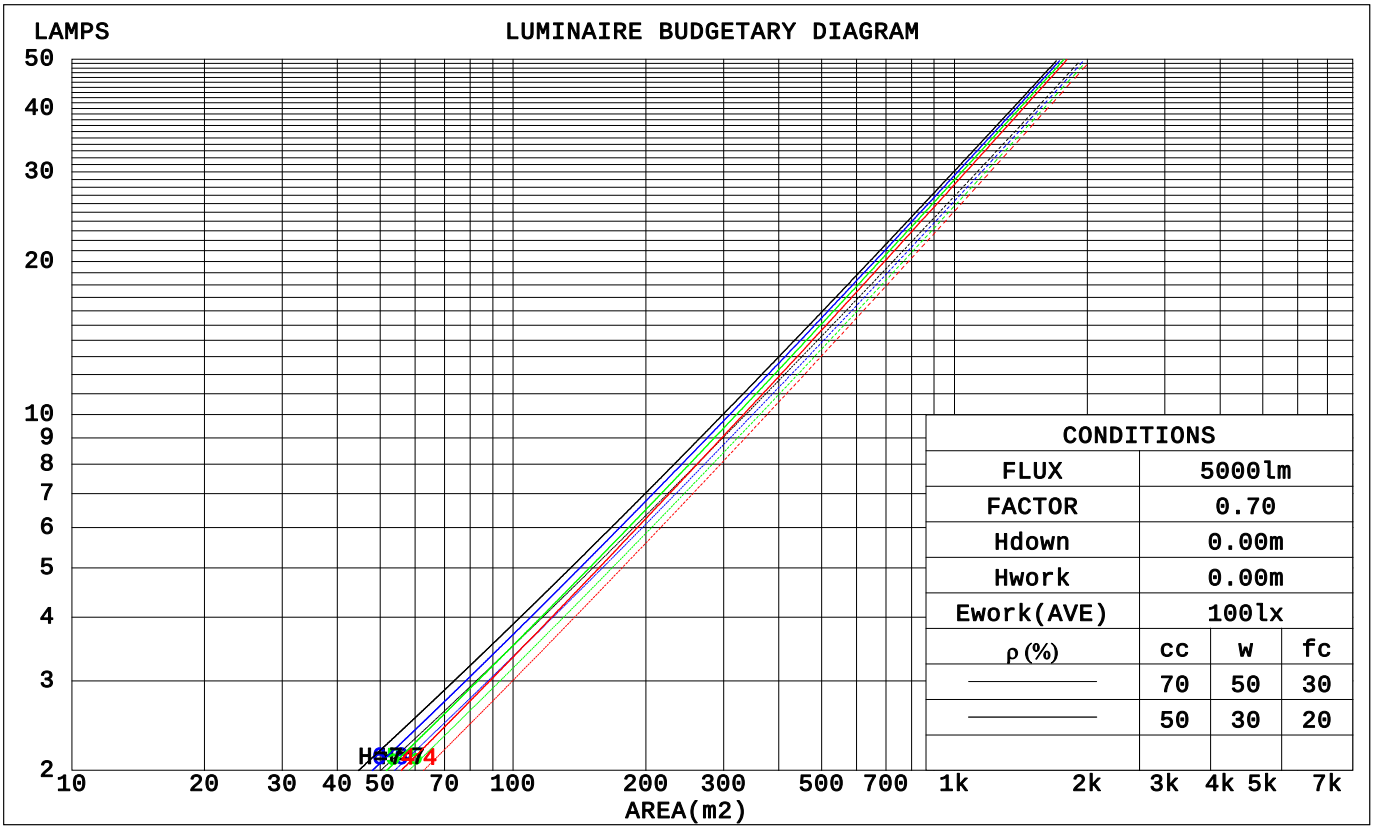
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

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	1.19	1.19	1.19	1.16	1.16	1.16	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.00	.98	.97	.96	.95	.94
2.0	1.05	1.01	.98	1.03	.00	.97	.99	.97	.95	.96	.94	.92	.93	.92	.90	.89
3.0	.99	.95	.91	.97	.93	.90	.95	.91	.89	.92	.89	.87	.90	.88	.86	.84
4.0	.94	.89	.85	.93	.88	.85	.90	.87	.84	.88	.85	.83	.86	.84	.82	.80
5.0	.89	.84	.81	.88	.84	.80	.86	.82	.79	.85	.81	.79	.83	.80	.78	.76
6.0	.85	.80	.76	.84	.80	.76	.83	.79	.75	.81	.78	.75	.80	.77	.74	.73
7.0	.81	.76	.73	.81	.76	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.70
8.0	.78	.73	.69	.77	.73	.69	.76	.72	.69	.75	.71	.69	.74	.71	.68	.67
9.0	.75	.70	.67	.74	.70	.66	.73	.69	.66	.72	.69	.66	.72	.68	.66	.64
10.0	.72	.67	.64	.72	.67	.64	.71	.66	.64	.70	.66	.63	.69	.66	.63	.62



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
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
5.0	1035	985.4	917.8	844.4	882.6	915.5	959.7	1033	0- 5	23.75	23.75
10.0	826.5	767.0	689.0	595.5	629.8	686.2	740.2	843.2	5- 10	59.24	83.00
15.0	584.2	526.0	460.0	373.0	402.2	450.0	497.5	592.7	10- 15	70.49	153.4
20.0	371.3	323.5	278.6	198.6	220.6	277.5	306.8	376.7	15- 20	62.85	216.3
25.0	186.5	166.4	144.5	107.2	120.2	145.0	161.3	229.5	20- 25	46.12	262.4
30.0	121.0	90.69	84.09	61.50	67.50	81.90	86.90	120.5	25- 30	30.14	292.6
35.0	70.20	53.70	47.40	35.90	38.20	46.00	48.00	70.80	30- 35	19.99	312.6
40.0	38.80	30.10	28.29	20.00	22.20	27.20	27.40	41.20	35- 40	13.09	325.7
45.0	23.00	16.79	17.40	11.00	12.40	16.20	14.70	22.50	40- 45	8.287	334.0
50.0	13.60	9.600	9.900	5.600	6.300	9.900	7.800	13.40	45- 50	5.144	339.1
55.0	7.900	5.000	5.600	2.500	2.900	6.200	3.700	8.100	50- 55	3.119	342.2
60.0	5.100	2.400	3.500	0.900	1.000	3.900	1.700	4.900	55- 60	1.851	344.1
65.0	3.200	0.900	2.700	0.500	0.600	2.700	0.700	3.200	60- 65	1.116	345.2
70.0	2.400	0.600	2.300	0.100	0.500	2.200	0.400	2.600	65- 70	0.802	346.0
75.0	2.100	0.300	1.800	0.100	0.200	1.900	0.200	2.000	70- 75	0.660	346.6
80.0	1.900	0.300	1.600	0.100	0.100	1.700	0.100	1.800	75- 80	0.546	347.2
85.0	1.700	0.100	1.500	0	0.200	1.500	0	1.600	80- 85	0.470	347.7
90.0	1.300	0	1.400	0	0.200	1.300	0	1.400	85- 90	0.409	348.1
95.0	1.300	0	1.300	0	0.300	1.200	0	1.300	90- 95	0.370	348.4
100.0	1.100	0.100	1.200	0	0.100	1.200	0	1.100	95-100	0.341	348.8
105.0	1.100	0.100	1.000	0	0.300	1.100	0	1.100	100-105	0.311	349.1
110.0	0.900	0.100	0.900	0	0.300	0.900	0	1.000	105-110	0.288	349.4
115.0	0.900	0	0.900	0	0.300	0.900	0.100	0.900	110-115	0.254	349.6
120.0	0.800	0	0.900	0	0.400	0.800	0.100	0.800	115-120	0.239	349.9
125.0	0.900	0.200	0.800	0.100	0.500	0.900	0.100	0.800	120-125	0.226	350.1
130.0	0.700	0	0.800	0	0.600	1.000	0.300	0.900	125-130	0.227	350.3
135.0	0.700	0.200	0.900	0.200	0.800	1.000	0.400	1.000	130-135	0.235	350.6
140.0	0.600	0.400	0.700	0.300	1.200	1.200	0.600	1.100	135-140	0.260	350.8
145.0	0.800	0.300	1.000	0.400	1.500	1.600	0.900	1.200	140-145	0.286	351.1
150.0	0.800	0.500	1.100	0.600	1.700	1.900	1.300	1.600	145-150	0.317	351.4
155.0	1.000	0.800	1.200	1.000	2.200	2.100	1.600	1.800	150-155	0.333	351.8
160.0	1.400	1.000	1.400	1.300	2.200	2.300	1.800	2.100	155-160	0.329	352.1
165.0	1.500	1.300	1.700	1.400	2.400	2.400	1.900	2.200	160-165	0.291	352.4
170.0	1.700	1.400	1.900	1.600	2.300	2.300	1.800	2.200	165-170	0.224	352.6
175.0	1.800	1.700	1.900	1.700	2.300	2.200	1.900	2.200	170-175	0.140	352.7
180.0	1.800	1.900	2.100	1.800	2.400	2.100	1.800	2.000	175-180	0.047	352.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28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	.162	.092	.029	.155	.088	.028	.142	.081	.026	.130	.075	.024	.118	.069	.022	
2.0	.152	.083	.026	.146	.080	.025	.135	.075	.023	.125	.070	.022	.115	.065	.021	
3.0	.143	.076	.023	.138	.074	.022	.128	.069	.021	.119	.065	.020	.111	.062	.019	
4.0	.134	.070	.021	.130	.068	.020	.122	.065	.019	.114	.061	.019	.107	.058	.018	
5.0	.127	.065	.019	.123	.063	.018	.116	.061	.018	.110	.058	.017	.104	.055	.017	
6.0	.120	.060	.017	.117	.059	.017	.111	.057	.017	.105	.055	.016	.100	.053	.016	
7.0	.115	.057	.016	.112	.056	.016	.106	.054	.015	.101	.052	.015	.096	.050	.015	
8.0	.109	.053	.015	.107	.053	.015	.102	.051	.015	.097	.049	.014	.093	.048	.014	
9.0	.104	.050	.014	.102	.050	.014	.098	.048	.014	.094	.047	.013	.090	.046	.013	
10.0	.100	.048	.013	.098	.047	.013	.094	.046	.013	.090	.045	.013	.087	.044	.013	

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	.201	.201	.201	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.180	.168	.156	.154	.144	.135	.106	.099	.093	.061	.057	.054	.019	.018	.017	
2.0	.164	.143	.125	.140	.123	.108	.096	.085	.076	.055	.050	.044	.018	.016	.014	
3.0	.150	.124	.103	.129	.107	.089	.088	.074	.062	.051	.043	.037	.016	.014	.012	
4.0	.139	.109	.086	.119	.094	.075	.082	.066	.053	.047	.038	.031	.015	.013	.010	
5.0	.129	.097	.073	.111	.084	.064	.077	.059	.045	.044	.034	.027	.014	.011	.009	
6.0	.121	.087	.063	.104	.076	.055	.072	.053	.039	.042	.031	.023	.013	.010	.008	
7.0	.114	.080	.055	.098	.069	.048	.068	.048	.034	.039	.028	.020	.013	.009	.007	
8.0	.108	.073	.049	.093	.063	.043	.064	.044	.030	.037	.026	.018	.012	.009	.006	
9.0	.103	.068	.044	.088	.059	.038	.061	.041	.027	.036	.024	.016	.012	.008	.005	
10.0	.098	.063	.040	.084	.055	.035	.058	.039	.025	.034	.023	.015	.011	.007	.005	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28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	2.0	2.8	2.2	2.9	3.1	0.5	1.3	0.7	1.5	1.6
3H	2.0	2.7	2.3	3.0	3.2	0.6	1.3	0.8	1.5	1.7
4H	2.1	2.8	2.4	3.0	3.3	0.7	1.4	1.0	1.6	1.9
6H	2.3	2.9	2.6	3.2	3.4	0.9	1.6	1.2	1.8	2.1
8H	2.4	3.1	2.7	3.3	3.6	1.1	1.8	1.4	2.0	2.3
12H	2.7	3.3	3.0	3.6	3.9	1.4	2.0	1.8	2.3	2.6
4H 2H	1.8	2.5	2.1	2.7	2.9	0.3	1.0	0.6	1.3	1.5
3H	1.8	2.4	2.2	2.7	3.0	0.4	1.0	0.8	1.3	1.6
4H	1.9	2.5	2.3	2.8	3.1	0.6	1.2	1.0	1.5	1.8
6H	2.2	2.7	2.6	3.0	3.4	0.9	1.4	1.3	1.8	2.2
8H	2.5	2.9	2.9	3.3	3.7	1.2	1.7	1.7	2.1	2.5
12H	2.9	3.3	3.3	3.7	4.1	1.7	2.1	2.1	2.5	2.9
8H 4H	1.8	2.3	2.2	2.6	3.0	0.5	0.9	0.9	1.3	1.7
6H	2.1	2.5	2.6	2.9	3.3	0.9	1.2	1.3	1.7	2.1
8H	2.4	2.8	2.9	3.2	3.7	1.3	1.6	1.7	2.0	2.5
12H	3.0	3.3	3.5	3.8	4.3	1.9	2.2	2.4	2.7	3.2
12H 4H	1.8	2.2	2.2	2.6	3.0	0.4	0.9	0.9	1.2	1.7
6H	2.1	2.4	2.5	2.8	3.3	0.8	1.2	1.3	1.6	2.1
8H	2.4	2.7	2.9	3.2	3.7	1.2	1.5	1.7	2.0	2.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.3 / - 2.5					+ 1.6 / - 2.4				
1.5H	+ 3.7 / - 2.9					+ 2.6 / - 2.3				
2.0H	+ 3.7 / - 2.7					+ 3.0 / - 1.9				

CIE Pub.117 Corrected 352.8 lm Total Lamp Luminous Flux.(8log(F/F0) = -3.6)

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28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	87	80	77	86	80	76	85	80	76	73
0.80	94	88	84	93	88	84	92	87	84	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	103	97	94	101	97	93	99	95	92	88
1.50	105	100	97	104	100	97	102	98	95	91
2.00	108	104	100	106	103	100	104	100	98	92
2.50	110	106	103	108	104	102	105	102	100	93
3.00	111	108	105	109	106	104	106	103	101	95
4.00	113	110	108	111	109	107	107	105	104	96
5.00	115	112	110	112	110	109	108	107	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

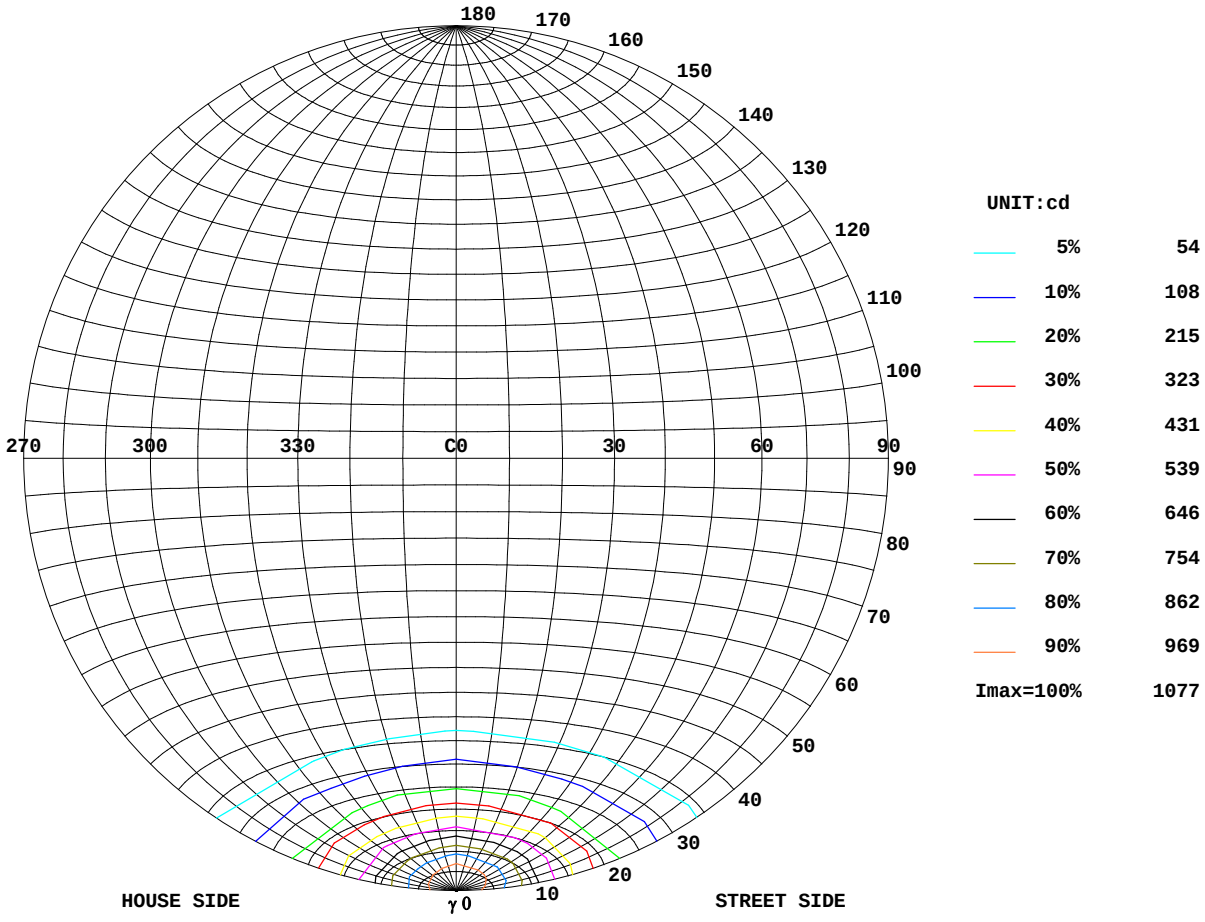
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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.:



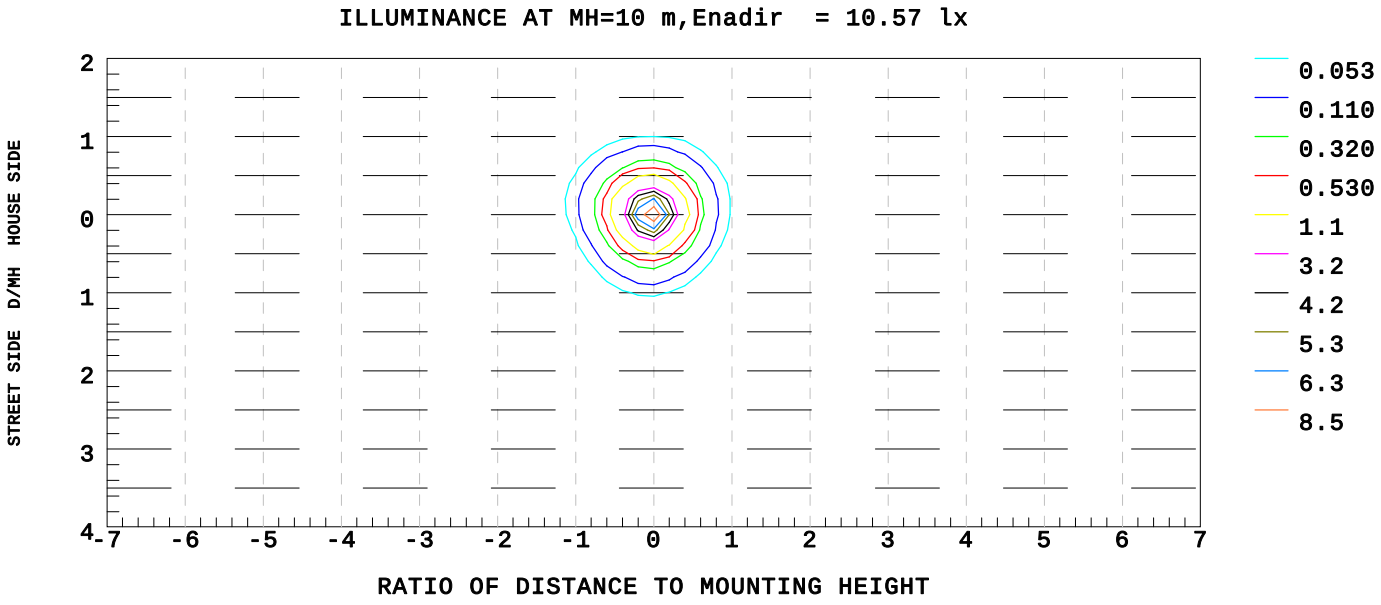
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

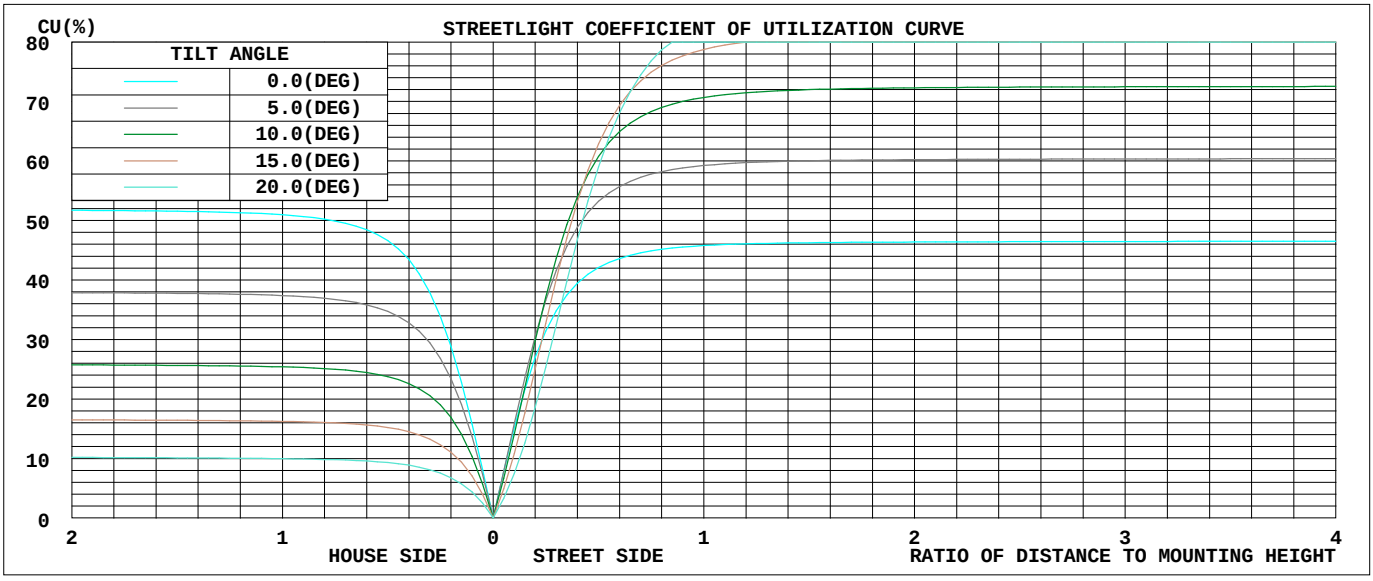
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

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





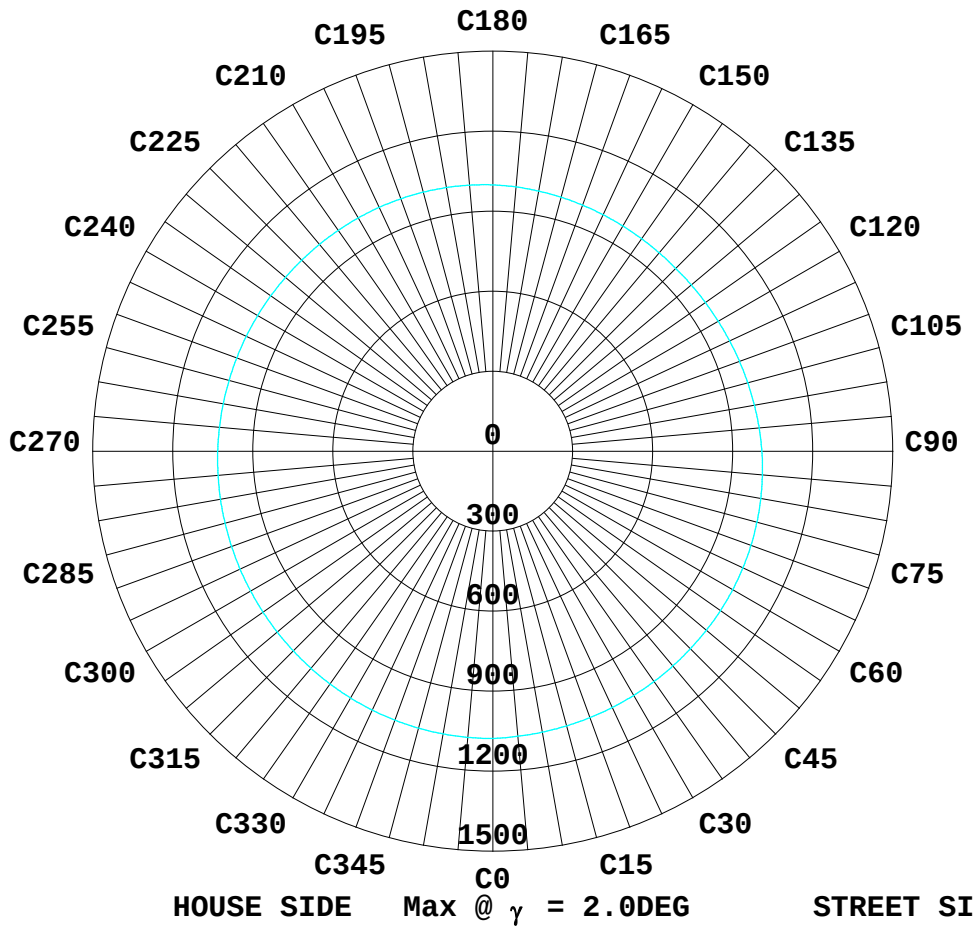
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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 HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28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

H(DEG) / V(DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20
-90.0	0.20	0.18	0.16	0.13	0.11	0.09	0.07	0.04	0.02	0.00	0.16	0.31	0.47	0.62	0.78
-85.0	0.20	0.18	0.16	0.13	0.11	0.09	0.07	0.04	0.03	0.00	0.15	0.31	0.47	0.64	0.81
-80.0	0.20	0.18	0.16	0.13	0.14	0.13	0.07	0.03	0.02	0.01	0.21	0.39	0.53	0.70	0.90
-75.0	0.20	0.18	0.16	0.19	0.11	0.06	0.08	0.09	0.07	0.05	0.19	0.43	0.63	0.82	1.02
-70.0	0.20	0.18	0.19	0.13	0.10	0.11	0.10	0.08	0.13	0.01	0.22	0.46	0.75	0.93	1.22
-65.0	0.20	0.18	0.22	0.09	0.12	0.10	0.18	0.06	0.14	0.17	0.37	0.46	0.79	1.20	1.54
-60.0	0.20	0.18	0.16	0.12	0.11	0.20	0.11	0.22	0.28	0.14	0.40	0.78	1.08	1.45	1.93
-55.0	0.20	0.18	0.10	0.16	0.16	0.11	0.24	0.31	0.31	0.49	0.51	0.95	1.43	2.16	3.01
-50.0	0.20	0.20	0.12	0.15	0.23	0.24	0.32	0.35	0.51	0.64	0.81	1.43	2.52	3.81	5.23
-45.0	0.20	0.23	0.16	0.13	0.14	0.27	0.30	0.50	0.67	0.92	1.66	2.71	4.47	6.57	9.04
-40.0	0.20	0.26	0.13	0.20	0.20	0.35	0.46	0.56	0.84	1.72	3.04	4.74	7.38	10.8	14.7
-35.0	0.20	0.27	0.13	0.26	0.31	0.37	0.51	0.75	1.40	2.84	4.87	7.76	11.2	16.6	23.2
-30.0	0.20	0.25	0.21	0.27	0.29	0.44	0.56	0.91	2.18	4.27	7.34	11.5	17.2	25.3	36.1
-25.0	0.20	0.24	0.26	0.21	0.34	0.50	0.73	1.33	3.07	5.82	10.1	16.2	25.2	36.9	53.2
-20.0	0.20	0.22	0.21	0.18	0.38	0.49	0.78	1.82	4.10	7.66	13.2	21.8	34.6	52.3	77.2
-15.0	0.20	0.21	0.16	0.19	0.41	0.51	0.78	2.25	4.87	9.47	16.4	27.5	44.7	71.3	113
-10.0	0.20	0.20	0.13	0.19	0.44	0.55	0.89	2.58	5.58	10.8	19.3	32.7	54.9	92.7	158
-5.0	0.20	0.20	0.11	0.20	0.48	0.59	0.97	2.80	6.08	11.9	21.3	36.5	63.4	111	200
0.0	0.20	0.20	0.10	0.20	0.50	0.60	1.00	2.90	6.30	12.4	22.2	38.2	67.5	120	221
5.0	0.20	0.21	0.14	0.25	0.56	0.70	1.16	3.09	6.48	12.4	22.2	38.0	67.1	120	222
10.0	0.20	0.23	0.19	0.30	0.61	0.78	1.26	3.13	6.36	11.9	20.9	35.2	61.2	107	194
15.0	0.20	0.25	0.26	0.35	0.65	0.84	1.33	3.05	5.98	11.0	18.8	30.9	51.8	87.3	143
20.0	0.20	0.28	0.33	0.40	0.69	0.92	1.42	2.87	5.43	9.53	16.1	26.0	40.8	65.5	102
25.0	0.20	0.31	0.41	0.47	0.73	1.03	1.46	2.53	4.71	8.01	13.1	20.6	31.1	46.7	68.3
30.0	0.20	0.34	0.39	0.55	0.73	1.10	1.39	2.20	3.95	6.59	10.3	15.7	22.9	32.2	43.5
35.0	0.20	0.37	0.33	0.58	0.81	1.08	1.40	2.02	3.36	5.32	8.05	11.8	16.5	21.8	28.2
40.0	0.20	0.37	0.35	0.56	0.73	1.09	1.43	1.84	2.72	4.27	6.20	8.69	11.3	14.2	17.7
45.0	0.20	0.35	0.40	0.52	0.75	1.05	1.40	1.77	2.30	3.27	4.78	6.42	7.64	9.22	10.7
50.0	0.20	0.32	0.37	0.56	0.81	1.06	1.38	1.75	2.11	2.63	3.63	4.55	5.06	5.87	6.51
55.0	0.20	0.31	0.38	0.60	0.77	0.99	1.30	1.65	2.02	2.40	2.87	3.09	3.37	3.67	3.97
60.0	0.20	0.31	0.45	0.57	0.73	0.99	1.20	1.53	1.87	2.17	2.45	2.42	2.32	2.25	2.22
65.0	0.20	0.31	0.53	0.54	0.77	0.93	1.17	1.42	1.69	1.98	2.18	1.95	1.89	1.71	1.53
70.0	0.20	0.32	0.49	0.60	0.73	0.95	1.11	1.31	1.54	1.83	1.79	1.70	1.53	1.36	1.21
75.0	0.20	0.33	0.45	0.67	0.76	0.87	1.08	1.29	1.46	1.66	1.55	1.40	1.29	1.10	0.88
80.0	0.20	0.33	0.45	0.58	0.77	0.95	1.05	1.18	1.33	1.49	1.47	1.34	1.11	0.91	0.76
85.0	0.20	0.33	0.46	0.59	0.70	0.82	0.96	1.12	1.28	1.45	1.33	1.19	1.02	0.86	0.69
90.0	0.20	0.32	0.44	0.57	0.69	0.81	0.93	1.05	1.17	1.30	1.15	1.01	0.87	0.72	0.58

Test System:HOPOO HPG1800 **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07月28日 **Remarks:**

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

H(DEG) / V(DEG)	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55
-90.0	0.93	1.08	1.24	1.40	1.24	1.08	0.93	0.78	0.62	0.47	0.31	0.16	0.00	0.14	0.29
-85.0	0.99	1.15	1.33	1.50	1.34	1.18	1.02	0.86	0.70	0.54	0.39	0.23	0.06	0.18	0.32
-80.0	1.08	1.25	1.43	1.60	1.45	1.29	1.13	0.96	0.76	0.60	0.47	0.34	0.21	0.43	0.56
-75.0	1.23	1.42	1.60	1.80	1.63	1.47	1.31	1.16	0.97	0.77	0.59	0.37	0.28	0.42	0.52
-70.0	1.48	1.74	2.02	2.30	2.08	1.84	1.58	1.34	1.16	0.92	0.63	0.41	0.37	0.55	0.65
-65.0	1.83	2.13	2.42	2.70	2.46	2.20	1.91	1.67	1.38	1.04	0.85	0.58	0.56	0.62	0.78
-60.0	2.40	2.80	3.16	3.50	3.35	3.15	2.85	2.44	1.88	1.48	0.99	0.69	0.72	0.88	0.95
-55.0	3.82	4.54	5.13	5.60	5.46	5.20	4.74	4.11	3.34	2.55	1.85	1.14	0.98	1.07	1.15
-50.0	6.53	7.82	9.05	9.90	9.62	8.93	8.14	6.99	5.73	4.45	3.25	2.30	1.71	1.39	1.38
-45.0	11.4	13.9	16.0	17.4	16.8	15.5	13.7	11.6	9.52	7.55	5.36	4.00	2.98	2.07	1.60
-40.0	18.9	23.0	26.2	28.2	27.9	26.0	22.7	18.9	14.8	11.3	8.66	6.30	4.47	3.14	2.22
-35.0	30.9	37.8	43.7	47.4	47.1	44.0	39.0	31.0	23.3	17.1	12.6	9.25	6.32	4.33	2.94
-30.0	48.7	62.5	75.7	84.0	81.8	73.1	61.8	49.9	38.2	26.2	18.4	12.7	8.68	5.68	3.83
-25.0	75.9	102	128	145	143	126	101	75.1	56.1	40.0	25.7	17.1	11.3	7.17	4.62
-20.0	116	176	238	279	277	224	167	118	80.6	55.9	35.2	22.2	14.1	8.67	5.58
-15.0	176	308	390	460	451	384	296	176	114	73.8	46.1	27.5	17.0	10.2	6.37
-10.0	298	407	579	689	680	566	410	258	153	92.6	56.6	32.7	19.7	11.7	7.03
-5.0	359	554	744	918	908	735	522	337	179	110	65.2	36.6	21.8	12.9	7.56
0.0	402	630	883	1057	1035	827	584	371	187	121	70.2	38.8	23.0	13.6	7.90
5.0	390	605	830	960	974	778	549	351	191	116	67.8	38.0	22.4	13.2	7.80
10.0	331	490	650	740	743	641	456	299	170	102	60.9	35.2	20.9	12.3	7.49
15.0	248	351	445	498	501	440	337	226	136	85.2	51.3	30.6	18.5	11.1	7.02
20.0	151	217	289	307	319	271	223	151	101	66.5	41.7	25.4	15.9	9.78	6.42
25.0	94.6	123	149	161	168	150	126	98.6	72.4	48.8	31.5	20.3	13.2	8.54	5.65
30.0	57.4	71.6	82.3	86.9	90.6	86.2	75.4	62.5	48.6	34.3	23.0	15.7	10.5	7.14	4.91
35.0	34.7	40.9	45.9	48.0	50.5	49.3	44.9	38.7	30.3	23.0	16.6	11.8	8.40	5.93	4.11
40.0	21.1	24.2	26.5	27.4	28.8	28.2	25.8	22.3	18.5	15.2	11.8	8.96	6.51	4.75	3.51
45.0	12.2	13.6	14.5	14.7	15.4	15.3	14.4	13.3	11.7	10.0	8.46	6.50	4.94	3.77	2.95
50.0	7.18	7.69	7.92	7.80	8.41	8.60	8.44	7.91	7.37	6.49	5.78	4.70	3.79	3.06	2.80
55.0	4.09	4.12	3.98	3.70	4.23	4.62	4.76	4.69	4.53	4.11	3.81	3.51	2.98	2.81	2.53
60.0	2.23	2.12	1.94	1.70	2.07	2.35	2.54	2.62	2.74	2.75	2.71	2.90	2.66	2.51	2.33
65.0	1.37	1.15	0.94	0.70	0.99	1.26	1.49	1.73	1.98	2.14	2.26	2.46	2.39	2.21	2.00
70.0	1.01	0.81	0.61	0.40	0.65	0.90	1.13	1.35	1.53	1.75	1.94	1.92	2.00	2.08	1.92
75.0	0.72	0.55	0.39	0.20	0.40	0.58	0.75	0.93	1.20	1.50	1.70	1.81	1.85	1.75	1.69
80.0	0.61	0.45	0.28	0.10	0.29	0.47	0.64	0.81	0.96	1.15	1.35	1.50	1.60	1.60	1.60
85.0	0.51	0.34	0.17	0.00	0.18	0.36	0.54	0.72	0.89	1.04	1.19	1.34	1.49	1.48	1.47
90.0	0.43	0.29	0.14	0.00	0.16	0.31	0.47	0.62	0.78	0.93	1.08	1.24	1.40	1.38	1.37

Test System:HOPOO HPG1800 **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07月28日 **Remarks:**

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

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

UNIT: cd

H(DEG) / V(DEG)	60	65	70	75	80	85	90
-90.0	0.43	0.58	0.72	0.87	1.01	1.15	1.30
-85.0	0.49	0.66	0.82	0.95	1.07	1.19	1.30
-80.0	0.64	0.72	0.80	0.97	1.15	1.23	1.30
-75.0	0.74	0.90	1.01	0.98	1.13	1.27	1.30
-70.0	0.85	0.91	1.06	1.19	1.11	1.31	1.30
-65.0	0.93	1.05	1.10	1.21	1.18	1.33	1.30
-60.0	1.01	1.12	1.23	1.29	1.38	1.31	1.30
-55.0	1.19	1.21	1.24	1.26	1.37	1.28	1.30
-50.0	1.39	1.35	1.39	1.37	1.40	1.28	1.30
-45.0	1.58	1.56	1.45	1.46	1.46	1.29	1.30
-40.0	1.79	1.69	1.58	1.49	1.53	1.30	1.30
-35.0	2.05	1.84	1.72	1.60	1.56	1.34	1.30
-30.0	2.55	2.10	1.88	1.70	1.49	1.42	1.30
-25.0	2.95	2.22	2.03	1.75	1.47	1.49	1.30
-20.0	3.51	2.36	2.10	1.80	1.59	1.55	1.30
-15.0	4.03	2.59	2.17	1.89	1.70	1.60	1.30
-10.0	4.50	2.84	2.25	1.97	1.79	1.64	1.30
-5.0	4.86	3.05	2.32	2.04	1.85	1.67	1.30
0.0	5.10	3.20	2.40	2.10	1.90	1.70	1.30
5.0	5.02	3.17	2.40	2.09	1.88	1.69	1.30
10.0	4.83	3.08	2.41	2.07	1.85	1.67	1.30
15.0	4.52	2.94	2.42	2.04	1.79	1.64	1.30
20.0	4.11	2.82	2.42	2.00	1.71	1.60	1.30
25.0	3.71	2.79	2.40	2.00	1.62	1.55	1.30
30.0	3.39	2.76	2.34	2.01	1.67	1.50	1.30
35.0	2.98	2.52	2.25	1.95	1.75	1.43	1.30
40.0	2.84	2.46	2.10	1.87	1.75	1.40	1.30
45.0	2.64	2.36	2.00	1.84	1.68	1.40	1.30
50.0	2.47	2.19	2.01	1.76	1.63	1.40	1.30
55.0	2.32	2.00	1.87	1.69	1.62	1.42	1.30
60.0	2.01	2.00	1.82	1.71	1.67	1.45	1.30
65.0	2.03	1.84	1.72	1.61	1.47	1.48	1.30
70.0	1.81	1.71	1.64	1.66	1.42	1.46	1.30
75.0	1.67	1.61	1.65	1.43	1.44	1.42	1.30
80.0	1.63	1.49	1.44	1.44	1.45	1.38	1.30
85.0	1.44	1.44	1.43	1.41	1.38	1.34	1.30
90.0	1.36	1.35	1.34	1.33	1.32	1.31	1.30

Test System:HOPOO HPG1800 **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07月28日 **Remarks:**