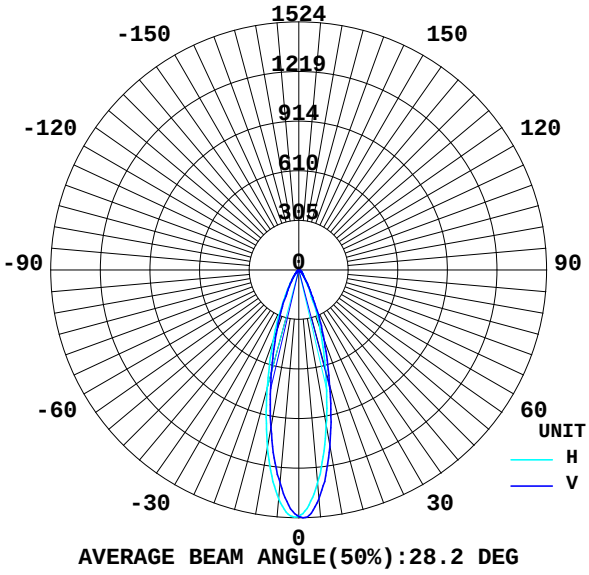
LUMINAIRE PHOTOMETRIC TEST REPORT

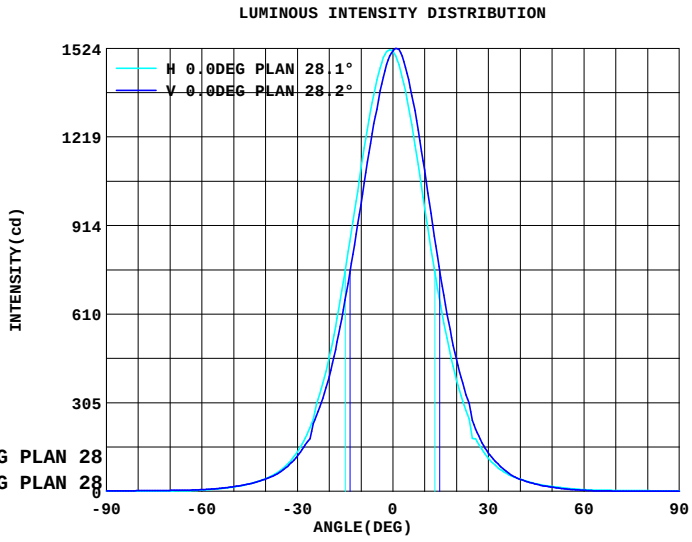
Report number:

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

MODEL:					
NOMINAL POWER(W):	9	Imax(cd):	1548	Voltage(V)	24.13
RATED VOLTAGE(V):	24	AVAILABILITY(%):	80.2	Current(A)	0.389
NOMINAL FLUX(lm):	510	Avai. FLUX(lm):	409.1	Power(W)	9.410
TEST FLUX(lm):	510	EFFICIENCY(%):	100.0	Power Factor(PF)	1.000
LAMPS QUANTITY :	1	TOTAL FLUX(lm):	509.8	EFFICIENCY(lm/W)	54.2
Effictive Flux(lm) :	409.1	θ @50%(H, V):	27.9,28.0DEG	EEI:	0.249



AVERAGE BEAM ANGLE(50%):28.2 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:

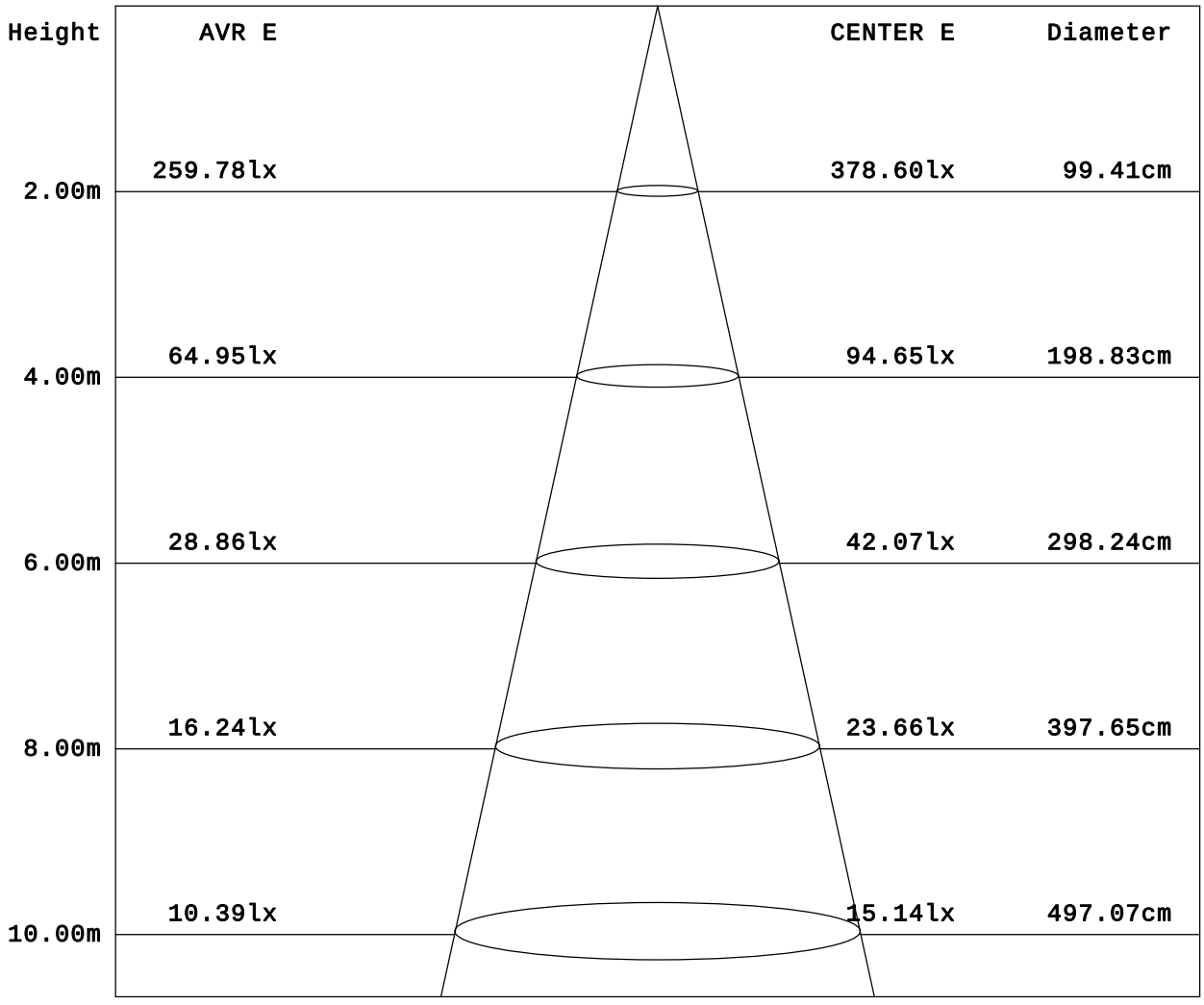
MANUFACTURER:		
Address:		
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

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.:

VERTICAL(DEG)	AREA FLUX DIAGRAM UNIT:lm																		Φ t	Φ a
45																				
40	0.05	0.08	0.11	0.14	0.17	0.20	0.23	0.25	0.25	0.25	0.24	0.21	0.19	0.16	0.13	0.10	0.07	0.05	2.84	0.00
35	0.07	0.10	0.15	0.21	0.26	0.32	0.37	0.41	0.43	0.42	0.39	0.34	0.29	0.23	0.18	0.14	0.10	0.06	4.47	0.00
30	0.09	0.14	0.21	0.29	0.40	0.53	0.65	0.74	0.77	0.75	0.68	0.57	0.45	0.34	0.25	0.18	0.13	0.08	7.24	0.00
25	0.11	0.18	0.27	0.42	0.64	0.87	1.13	1.34	1.40	1.34	1.17	0.95	0.70	0.50	0.35	0.24	0.16	0.10	11.8	4.61
20	0.13	0.22	0.36	0.60	0.96	1.50	2.05	2.49	2.70	2.59	2.20	1.63	1.10	0.73	0.47	0.31	0.20	0.13	20.4	15.9
15	0.16	0.26	0.46	0.80	1.44	2.39	3.35	4.16	4.50	4.30	3.62	2.69	1.76	1.04	0.63	0.38	0.24	0.15	32.3	28.6
	0.17	0.31	0.55	1.02	1.93	3.26	4.98	6.41	7.03	6.67	5.49	3.92	2.53	1.44	0.80	0.46	0.28	0.17	47.4	44.2
	0.19	0.34	0.62	1.20	2.32	4.01	6.34	8.67	9.71	9.15	7.37	5.17	3.22	1.82	0.95	0.52	0.30	0.18	62.1	59.1
	0.19	0.35	0.65	1.27	2.50	4.37	6.93	9.65	11.3	10.7	8.56	5.88	3.61	2.04	1.02	0.56	0.32	0.19	70.2	67.2
	0.19	0.34	0.64	1.22	2.43	4.21	6.65	9.22	10.8	10.1	8.14	5.62	3.48	1.96	1.00	0.54	0.31	0.18	67.1	64.2
	0.18	0.32	0.58	1.08	2.12	3.61	5.58	7.63	8.78	8.24	6.38	4.50	2.88	1.60	0.87	0.48	0.28	0.17	55.3	52.1
-15	0.16	0.28	0.49	0.88	1.62	2.79	4.10	5.42	6.17	5.84	4.59	3.18	2.07	1.17	0.68	0.40	0.24	0.14	40.2	36.7
-20	0.14	0.23	0.39	0.66	1.10	1.90	2.77	3.49	3.90	3.72	3.03	2.11	1.26	0.81	0.50	0.31	0.19	0.12	26.6	22.6
-25	0.11	0.19	0.30	0.48	0.73	1.11	1.63	2.10	2.33	2.21	1.78	1.25	0.82	0.52	0.35	0.23	0.15	0.10	16.4	11.5
-30	0.09	0.15	0.22	0.33	0.49	0.69	0.91	1.10	1.22	1.17	0.99	0.76	0.53	0.35	0.23	0.16	0.11	0.07	9.57	2.22
-35	0.07	0.11	0.16	0.23	0.32	0.43	0.54	0.64	0.70	0.67	0.58	0.46	0.34	0.23	0.16	0.11	0.08	0.05	5.88	0.00
-40	0.05	0.08	0.11	0.16	0.22	0.27	0.33	0.38	0.41	0.40	0.35	0.29	0.22	0.16	0.11	0.07	0.05	0.04	3.69	0.00
-45	0.03	0.05	0.08	0.11	0.14	0.18	0.21	0.24	0.25	0.25	0.22	0.18	0.14	0.11	0.07	0.05	0.03	0.02	2.34	0.00
	-45 -40 -35 -30 -25 -20 -15 -10 HORIZONTAL(DEG) 10 15 20 25 30 35 40 45																			
Φ t	2.17	3.71	6.36	11.1	19.8	32.6	48.8	64.4	72.7	68.9	55.8	39.7	25.6	15.2	8.75	5.23	3.23	2.00	510	
Φ a	0.00	0.00	0.00	4.36	15.1	28.6	45.0	60.7	69.3	65.3	52.0	35.7	21.2	10.1	1.49	0.00	0.00	0.00		409

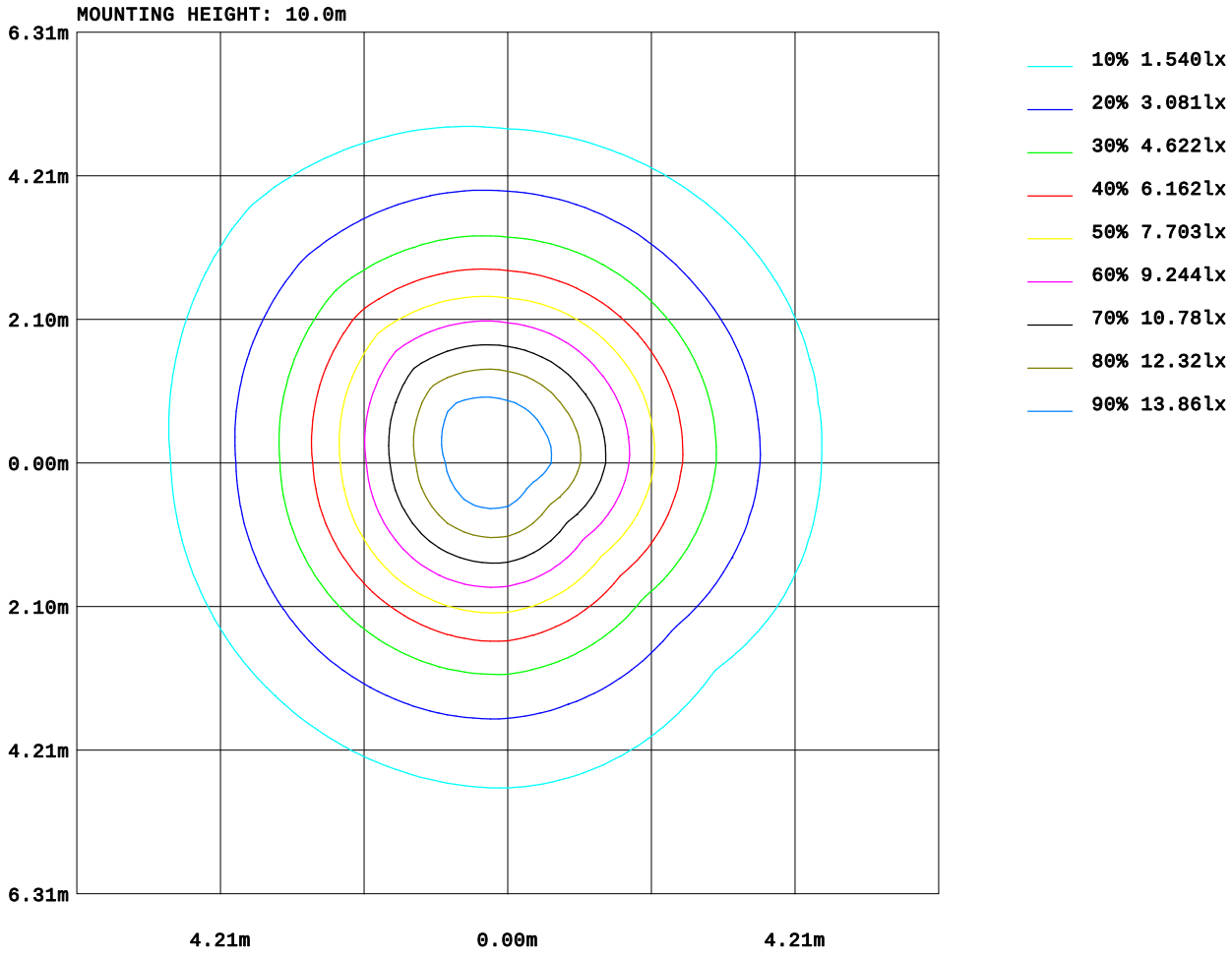
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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.:



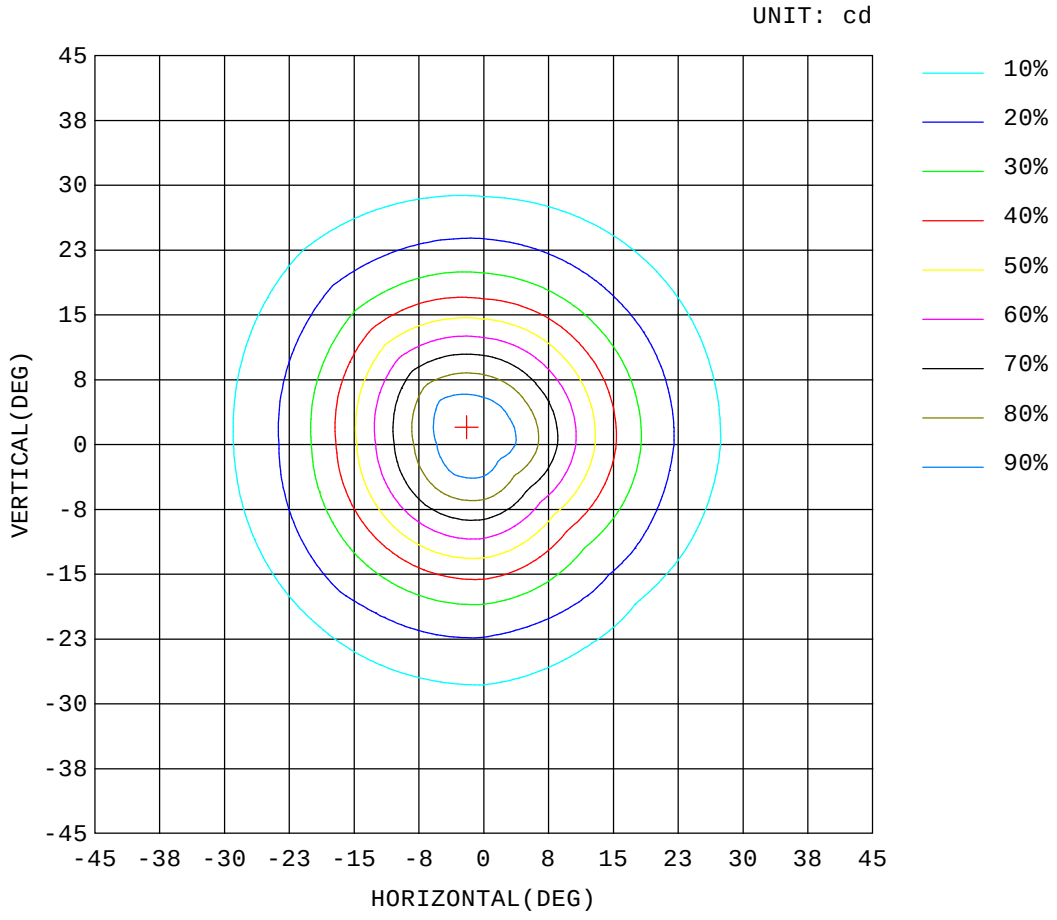
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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

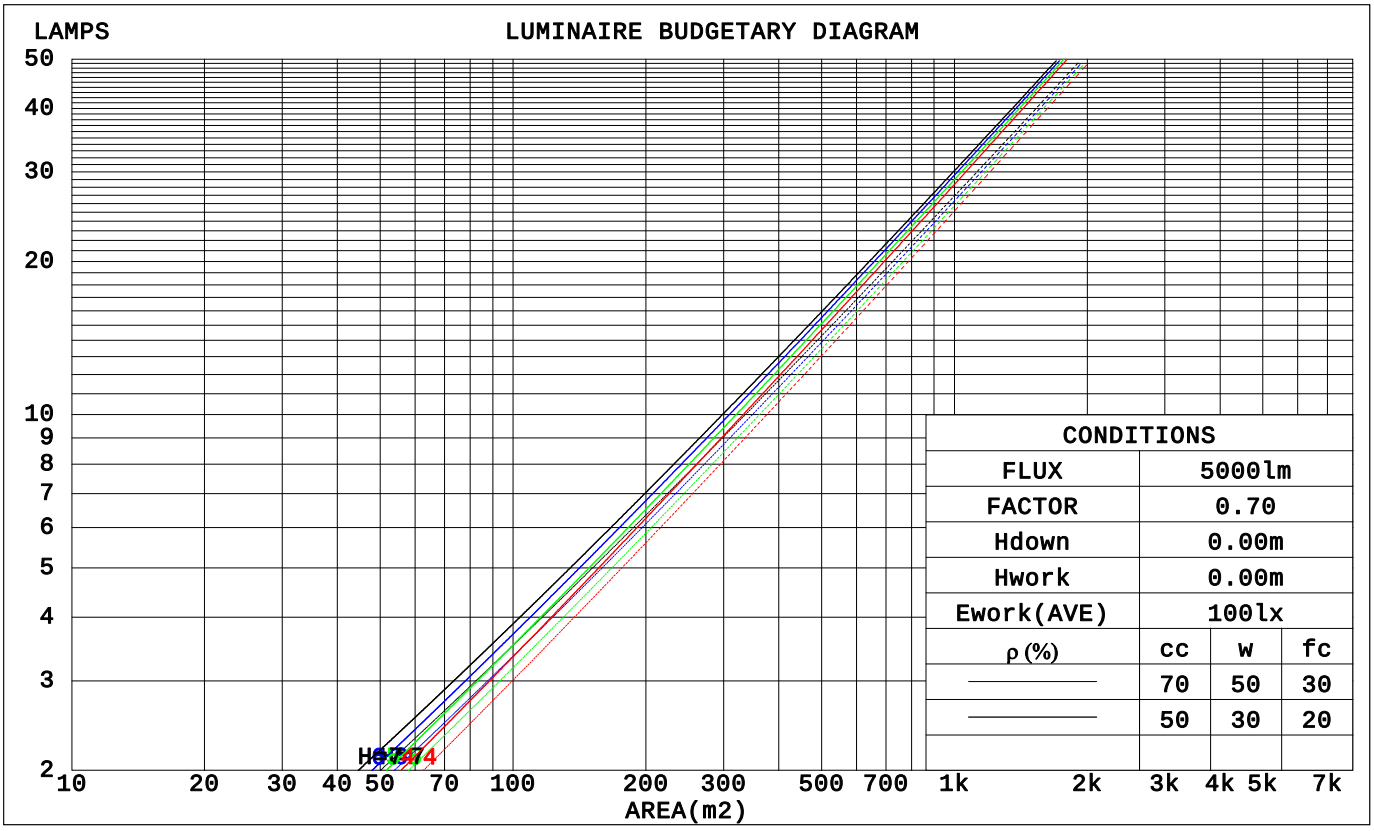
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

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	.99	.98	.97	.96	.95	.93
2.0	1.05	1.01	.98	1.03	.00	.97	.99	.97	.94	.96	.94	.92	.93	.92	.90	.89
3.0	.99	.94	.91	.97	.93	.90	.95	.91	.89	.92	.89	.87	.90	.87	.86	.84
4.0	.94	.89	.85	.92	.88	.85	.90	.86	.84	.88	.85	.82	.86	.84	.81	.80
5.0	.89	.84	.80	.88	.83	.80	.86	.82	.79	.85	.81	.78	.83	.80	.78	.76
6.0	.85	.80	.76	.84	.79	.76	.83	.78	.75	.81	.77	.75	.80	.77	.74	.73
7.0	.81	.76	.73	.81	.76	.72	.79	.75	.72	.78	.74	.71	.77	.74	.71	.70
8.0	.78	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.68	.74	.71	.68	.67
9.0	.75	.70	.66	.74	.69	.66	.73	.69	.66	.72	.68	.66	.71	.68	.65	.64
10.0	.72	.67	.64	.71	.67	.64	.71	.66	.63	.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	1318	1241	1315	1388	1415	1504	1417	1356	0- 5	34.42	34.42
10.0	973.7	875.8	985.2	1064	1111	1211	1105	1022	5- 10	85.62	120.0
15.0	639.5	547.1	657.3	701.7	752.2	858.3	736.0	683.5	10- 15	101.6	221.7
20.0	383.2	322.7	393.3	436.0	461.3	536.0	456.4	407.8	15- 20	90.16	311.8
25.0	182.6	159.1	232.8	229.6	247.3	314.5	244.3	238.8	20- 25	67.90	379.8
30.0	114.3	85.39	121.0	120.2	134.5	160.6	131.8	121.5	25- 30	43.08	422.8
35.0	66.00	47.29	69.00	68.80	74.40	90.50	74.80	69.30	30- 35	27.50	450.3
40.0	41.90	26.10	42.50	39.59	43.79	50.40	41.80	43.29	35- 40	17.95	468.3
45.0	26.19	15.90	26.00	24.29	26.00	31.90	24.69	27.59	40- 45	12.01	480.3
50.0	16.69	8.500	16.00	13.70	15.00	19.40	14.40	17.50	45- 50	7.972	488.3
55.0	10.50	4.200	9.800	7.400	8.600	11.70	7.600	10.50	50- 55	5.106	493.4
60.0	6.000	1.900	5.800	3.300	4.100	7.200	3.600	6.200	55- 60	3.033	496.4
65.0	3.900	1.100	4.000	1.400	1.600	4.700	1.600	4.100	60- 65	1.755	498.2
70.0	3.200	0.800	3.300	0.900	1.000	3.800	1.000	3.400	65- 70	1.247	499.4
75.0	2.700	0.600	2.700	0.600	0.800	3.100	0.600	2.800	70- 75	1.007	500.4
80.0	2.300	0.300	2.300	0.400	0.600	2.600	0.400	2.400	75- 80	0.848	501.3
85.0	1.900	0.300	2.000	0.200	0.400	2.200	0.300	2.100	80- 85	0.712	502.0
90.0	1.700	0.200	1.800	0.100	0.300	2.000	0.200	1.900	85- 90	0.605	502.6
95.0	1.500	0.200	1.700	0.100	0.300	1.800	0.200	1.600	90- 95	0.524	503.1
100.0	1.300	0.100	1.600	0.100	0.300	1.700	0.100	1.600	95-100	0.485	503.6
105.0	1.300	0.200	1.500	0.200	0.400	1.500	0.200	1.500	100-105	0.458	504.1
110.0	1.200	0.200	1.300	0.200	0.400	1.500	0.200	1.400	105-110	0.431	504.5
115.0	1.100	0.300	1.300	0.200	0.500	1.400	0.200	1.300	110-115	0.406	504.9
120.0	1.000	0.200	1.300	0.200	0.600	1.300	0.400	1.300	115-120	0.377	505.3
125.0	1.000	0.300	1.200	0.200	0.700	1.400	0.400	1.300	120-125	0.366	505.6
130.0	0.900	0.400	1.200	0.300	0.800	1.400	0.600	1.400	125-130	0.363	506.0
135.0	1.000	0.400	1.200	0.400	1.100	1.500	0.700	1.500	130-135	0.373	506.4
140.0	1.100	0.700	1.300	0.500	1.400	1.600	1.100	1.800	135-140	0.398	506.8
145.0	1.200	0.900	1.400	0.800	1.800	2.000	1.400	2.100	140-145	0.439	507.2
150.0	1.500	1.300	1.700	1.100	2.400	2.400	1.900	2.600	145-150	0.482	507.7
155.0	1.800	1.700	2.000	1.400	2.800	2.800	2.400	3.000	150-155	0.514	508.2
160.0	2.200	2.000	2.300	1.700	3.100	3.100	2.700	3.200	155-160	0.503	508.7
165.0	2.400	2.300	2.600	2.200	3.400	3.400	2.900	3.400	160-165	0.444	509.2
170.0	2.700	2.500	2.800	2.300	3.400	3.400	3.000	3.300	165-170	0.340	509.5
175.0	2.900	2.600	3.000	2.600	3.400	3.300	2.900	3.200	170-175	0.212	509.7
180.0	2.900	2.900	3.200	2.800	3.500	3.200	2.900	3.000	175-180	0.071	509.8
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	.163	.093	.029	.156	.089	.028	.142	.082	.026	.130	.075	.024	.119	.069	.022	
2.0	.152	.084	.026	.146	.081	.025	.135	.075	.023	.125	.070	.022	.115	.065	.021	
3.0	.143	.076	.023	.138	.074	.022	.129	.070	.021	.120	.066	.020	.112	.062	.019	
4.0	.135	.070	.021	.130	.068	.020	.122	.065	.019	.115	.062	.019	.108	.058	.018	
5.0	.127	.065	.019	.124	.063	.018	.117	.061	.018	.110	.058	.017	.104	.055	.017	
6.0	.121	.061	.017	.118	.059	.017	.111	.057	.017	.105	.055	.016	.100	.053	.016	
7.0	.115	.057	.016	.112	.056	.016	.106	.054	.016	.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	.105	.051	.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	.172	.172	.172	.117	.117	.117	.067	.067	.067	.022	.022	.022	
1.0	.181	.168	.157	.155	.144	.135	.106	.099	.093	.061	.057	.054	.020	.019	.018	
2.0	.165	.143	.126	.141	.124	.109	.097	.085	.076	.056	.050	.044	.018	.016	.014	
3.0	.151	.124	.103	.129	.107	.089	.089	.075	.063	.051	.044	.037	.016	.014	.012	
4.0	.140	.109	.086	.120	.095	.075	.082	.066	.053	.048	.039	.031	.015	.013	.010	
5.0	.130	.098	.074	.112	.084	.064	.077	.059	.045	.045	.035	.027	.014	.011	.009	
6.0	.122	.088	.064	.105	.076	.055	.072	.053	.039	.042	.031	.023	.014	.010	.008	
7.0	.115	.080	.056	.099	.069	.049	.068	.049	.034	.040	.029	.020	.013	.009	.007	
8.0	.109	.074	.050	.094	.064	.043	.065	.045	.031	.038	.026	.018	.012	.009	.006	
9.0	.103	.068	.045	.089	.059	.039	.062	.042	.028	.036	.025	.016	.012	.008	.005	
10.0	.098	.064	.040	.085	.055	.035	.059	.039	.025	.034	.023	.015	.011	.008	.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	0.7	1.5	1.0	1.7	1.9	0.8	1.6	1.0	1.8	1.9
3H	0.9	1.6	1.2	1.8	2.1	1.0	1.7	1.2	1.9	2.1
4H	1.1	1.8	1.3	2.0	2.2	1.1	1.8	1.4	2.1	2.3
6H	1.4	2.0	1.7	2.3	2.5	1.4	2.1	1.7	2.4	2.6
8H	1.6	2.2	1.9	2.5	2.8	1.7	2.3	2.0	2.6	2.9
12H	1.9	2.5	2.2	2.8	3.1	2.0	2.6	2.4	2.9	3.2
4H 2H	0.5	1.2	0.8	1.5	1.7	0.6	1.3	0.9	1.5	1.8
3H	0.7	1.3	1.1	1.6	1.9	0.8	1.4	1.1	1.7	2.0
4H	1.0	1.5	1.3	1.8	2.2	1.0	1.6	1.4	1.9	2.3
6H	1.4	1.9	1.8	2.2	2.6	1.5	2.0	1.9	2.3	2.7
8H	1.8	2.2	2.2	2.6	3.0	1.9	2.3	2.3	2.7	3.1
12H	2.2	2.7	2.7	3.1	3.5	2.4	2.8	2.8	3.2	3.6
8H 4H	0.9	1.3	1.3	1.7	2.1	0.9	1.4	1.3	1.8	2.2
6H	1.4	1.7	1.8	2.1	2.6	1.4	1.8	1.9	2.2	2.7
8H	1.8	2.1	2.3	2.6	3.0	1.9	2.2	2.4	2.7	3.2
12H	2.5	2.8	3.0	3.2	3.7	2.6	2.9	3.1	3.4	3.8
12H 4H	0.8	1.2	1.3	1.6	2.1	0.9	1.3	1.3	1.7	2.1
6H	1.3	1.7	1.8	2.1	2.6	1.4	1.7	1.9	2.2	2.6
8H	1.8	2.1	2.3	2.5	3.0	1.9	2.2	2.4	2.6	3.1
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 1.8					+ 2.0 / - 1.8				
1.5H	+ 3.1 / - 2.2					+ 3.3 / - 2.2				
2.0H	+ 3.5 / - 2.2					+ 3.5 / - 1.9				

CIE Pub.117 Corrected 509.8 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.3)

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	86	80	76	86	80	76	85	79	76	72
0.80	94	88	84	93	88	84	92	87	84	80
1.00	98	93	89	97	92	89	96	92	88	84
1.25	102	97	94	101	96	93	99	95	92	88
1.50	105	100	97	104	99	96	101	98	95	90
2.00	108	104	100	106	102	99	103	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	94
4.00	113	110	108	111	109	107	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

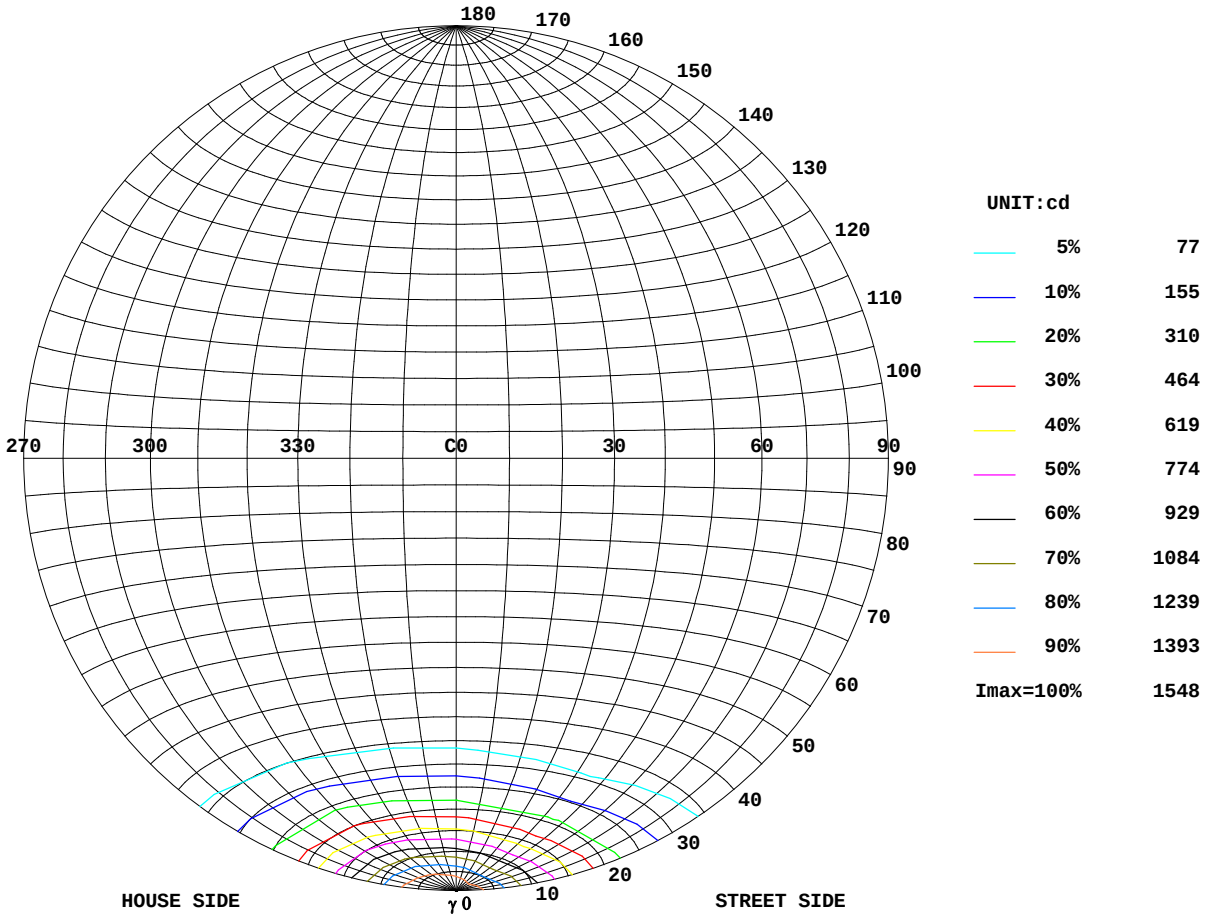
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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.:



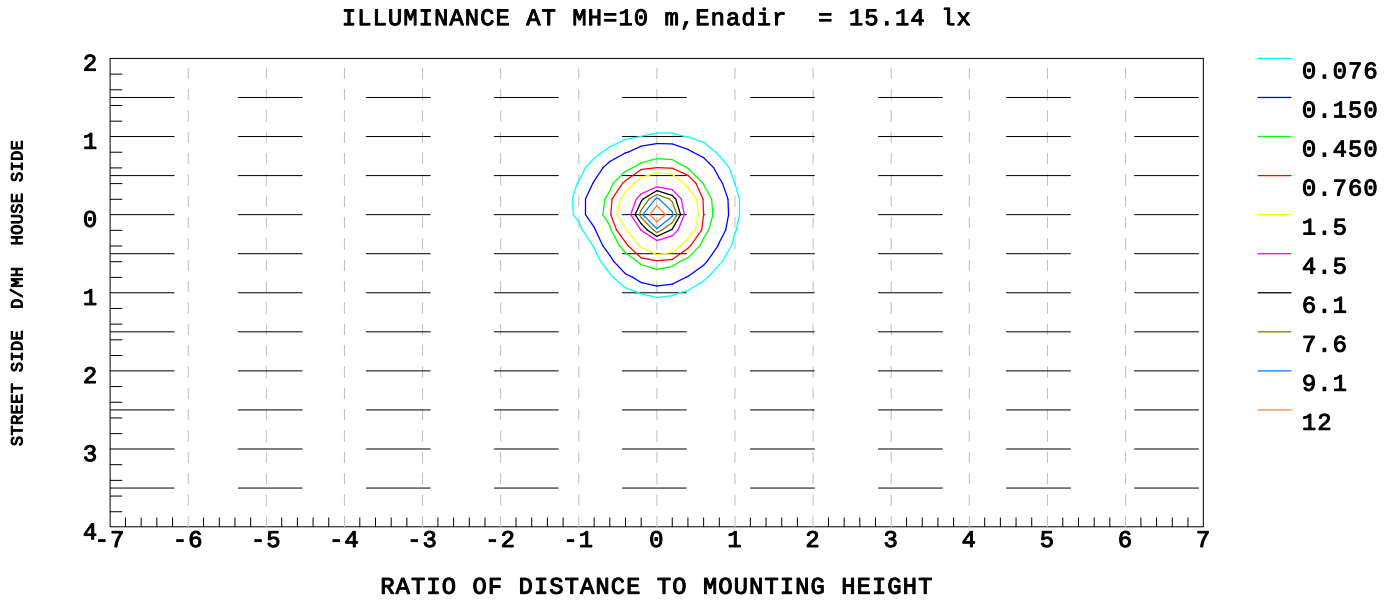
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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.:





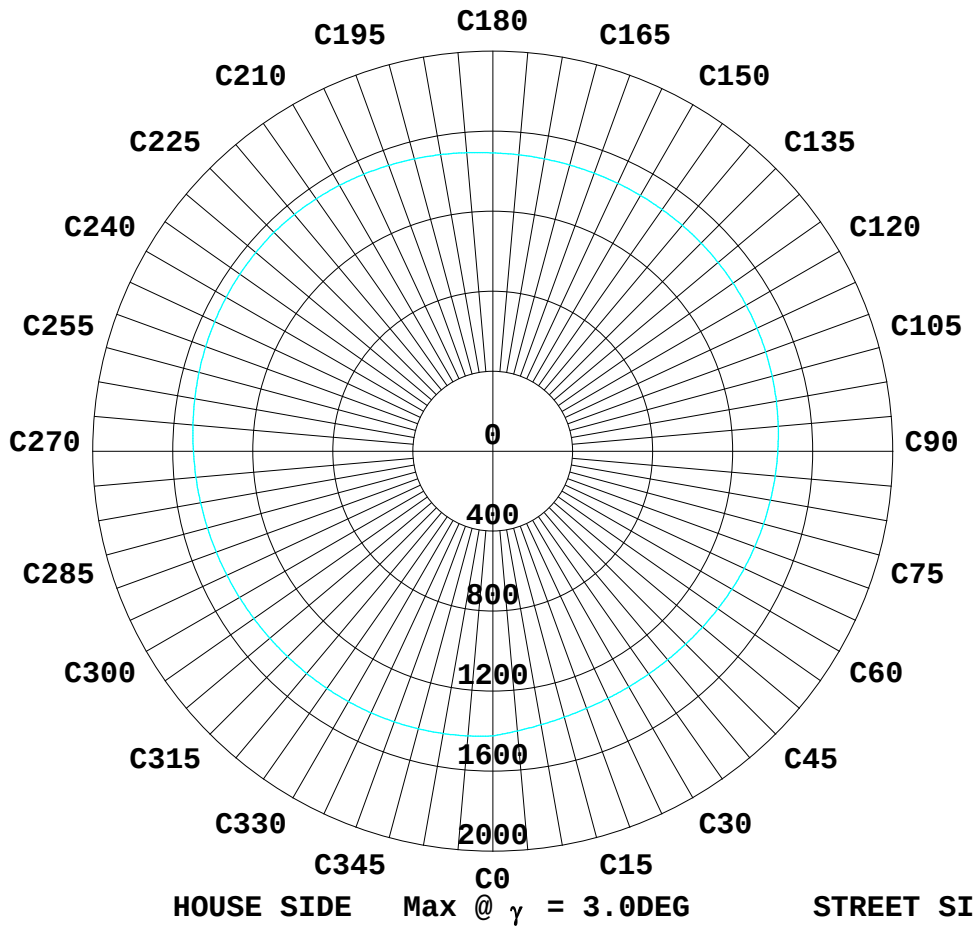
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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	0.30	0.28	0.26	0.23	0.21	0.19	0.17	0.14	0.12	0.10	0.29	0.48	0.67	0.86	1.04
-85.0	0.30	0.28	0.27	0.29	0.30	0.30	0.30	0.31	0.29	0.25	0.41	0.60	0.80	1.00	1.19
-80.0	0.30	0.29	0.33	0.35	0.34	0.29	0.27	0.32	0.32	0.31	0.55	0.78	0.98	1.18	1.41
-75.0	0.30	0.32	0.37	0.34	0.32	0.39	0.40	0.44	0.43	0.46	0.67	0.93	1.22	1.42	1.64
-70.0	0.30	0.35	0.37	0.35	0.42	0.46	0.47	0.53	0.59	0.51	0.75	1.03	1.36	1.66	2.06
-65.0	0.30	0.38	0.36	0.44	0.48	0.51	0.59	0.56	0.63	0.71	0.99	1.31	1.71	2.10	2.52
-60.0	0.30	0.39	0.36	0.45	0.52	0.61	0.63	0.73	0.86	0.98	1.15	1.59	2.13	2.78	3.54
-55.0	0.30	0.39	0.44	0.51	0.58	0.61	0.75	0.91	1.10	1.21	1.52	2.48	3.73	5.03	6.26
-50.0	0.30	0.39	0.47	0.55	0.65	0.71	0.89	1.12	1.33	1.89	3.09	4.67	6.65	8.80	10.9
-45.0	0.30	0.39	0.47	0.57	0.64	0.84	1.02	1.27	1.97	3.47	5.44	7.85	10.9	14.0	17.4
-40.0	0.30	0.39	0.48	0.61	0.74	0.90	1.20	1.66	3.32	5.60	8.62	12.1	16.6	22.0	27.5
-35.0	0.30	0.39	0.50	0.67	0.77	0.99	1.35	2.52	4.92	8.24	12.3	17.8	24.7	32.5	41.8
-30.0	0.30	0.39	0.55	0.68	0.87	1.15	1.63	3.63	6.77	11.2	16.9	25.1	34.7	47.4	64.6
-25.0	0.30	0.39	0.58	0.68	0.94	1.25	2.12	4.79	8.77	14.1	22.3	33.1	48.2	70.8	100
-20.0	0.30	0.39	0.58	0.68	0.91	1.29	2.66	5.86	10.7	17.4	28.0	42.8	66.1	102	158
-15.0	0.30	0.39	0.59	0.73	0.93	1.38	3.28	6.90	12.3	20.5	33.4	53.2	87.1	145	246
-10.0	0.30	0.40	0.59	0.76	0.96	1.49	3.70	7.75	13.6	23.4	38.1	63.0	109	192	352
-5.0	0.30	0.40	0.60	0.79	0.99	1.56	3.97	8.34	14.5	25.2	42.0	70.9	127	231	426
0.0	0.30	0.40	0.60	0.80	1.00	1.60	4.10	8.60	15.0	26.0	43.7	74.4	135	247	461
5.0	0.30	0.42	0.64	0.86	1.10	1.73	4.22	8.67	15.1	26.0	43.4	74.2	134	250	453
10.0	0.30	0.43	0.68	0.91	1.19	1.83	4.18	8.41	14.6	24.9	40.7	68.9	121	226	397
15.0	0.30	0.45	0.71	0.95	1.25	1.87	3.98	7.86	13.8	22.7	36.7	60.1	102	174	308
20.0	0.30	0.47	0.75	0.98	1.33	1.94	3.61	7.10	12.5	20.0	31.8	49.4	80.1	129	225
25.0	0.30	0.49	0.78	1.03	1.46	2.01	3.24	6.25	10.7	16.9	26.6	39.2	59.5	91.9	131
30.0	0.30	0.50	0.78	1.08	1.47	2.01	2.88	5.29	8.93	14.2	21.1	31.1	43.3	60.8	81.9
35.0	0.30	0.52	0.77	1.11	1.45	1.95	2.66	4.37	7.28	11.1	16.4	23.2	32.3	40.0	49.8
40.0	0.30	0.53	0.78	1.09	1.47	1.89	2.61	3.60	5.72	8.60	12.4	17.1	22.1	27.5	32.4
45.0	0.30	0.54	0.80	1.08	1.43	1.91	2.45	3.14	4.49	6.52	9.11	12.2	15.2	17.8	20.4
50.0	0.30	0.55	0.81	1.10	1.47	1.83	2.31	2.98	3.69	4.98	6.67	8.44	9.77	11.2	12.8
55.0	0.30	0.55	0.80	1.08	1.40	1.77	2.21	2.72	3.37	4.01	5.07	5.67	6.27	6.92	7.48
60.0	0.30	0.56	0.75	1.06	1.37	1.74	2.10	2.53	3.02	3.61	4.14	4.04	4.15	4.25	4.33
65.0	0.30	0.57	0.78	1.05	1.32	1.63	2.01	2.35	2.76	3.18	3.44	3.37	3.20	3.03	2.79
70.0	0.30	0.55	0.77	0.97	1.28	1.56	1.85	2.18	2.60	2.90	2.93	2.76	2.56	2.33	2.13
75.0	0.30	0.52	0.77	1.00	1.18	1.48	1.75	2.02	2.29	2.60	2.54	2.37	2.20	1.93	1.65
80.0	0.30	0.50	0.75	0.96	1.18	1.43	1.58	1.85	2.11	2.38	2.24	2.03	1.80	1.58	1.36
85.0	0.30	0.49	0.70	0.92	1.13	1.34	1.52	1.71	1.94	2.20	2.05	1.85	1.61	1.38	1.16
90.0	0.30	0.49	0.68	0.87	1.05	1.24	1.43	1.62	1.81	2.00	1.80	1.60	1.40	1.20	1.00

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	1.23	1.42	1.61	1.80	1.62	1.44	1.26	1.08	0.91	0.73	0.56	0.38	0.20	0.37	0.53
-85.0	1.39	1.59	1.79	2.00	1.81	1.61	1.42	1.22	1.02	0.82	0.60	0.41	0.25	0.45	0.63
-80.0	1.63	1.85	2.08	2.30	2.07	1.84	1.61	1.39	1.18	0.98	0.78	0.55	0.32	0.51	0.69
-75.0	1.92	2.19	2.45	2.70	2.45	2.19	1.94	1.68	1.42	1.15	0.85	0.58	0.40	0.60	0.83
-70.0	2.40	2.70	3.00	3.30	2.99	2.67	2.34	1.98	1.60	1.29	1.01	0.75	0.68	0.77	0.90
-65.0	2.92	3.31	3.67	4.00	3.63	3.25	2.88	2.47	2.02	1.60	1.23	0.81	0.74	0.96	1.16
-60.0	4.28	4.90	5.41	5.80	5.24	4.57	3.84	3.13	2.47	1.91	1.47	1.00	1.08	1.15	1.26
-55.0	7.45	8.50	9.30	9.80	8.88	7.71	6.41	5.05	3.78	2.67	1.75	1.25	1.43	1.48	1.52
-50.0	12.7	14.3	15.4	16.0	14.6	12.8	10.8	8.60	6.40	4.47	2.75	1.97	1.82	1.84	1.84
-45.0	20.7	23.1	25.1	26.0	23.8	20.7	17.3	13.6	10.2	7.22	4.51	3.55	2.78	2.29	2.20
-40.0	32.8	37.5	40.9	42.5	38.7	33.5	27.3	21.4	15.7	10.7	7.71	5.95	4.39	3.21	2.55
-35.0	51.5	60.4	66.8	69.0	62.8	53.4	42.5	31.8	22.9	16.2	12.1	9.12	6.64	4.56	3.20
-30.0	83.6	102	116	121	108	89.0	67.5	48.5	32.6	24.1	18.4	13.0	9.34	6.32	4.14
-25.0	139	177	211	233	194	149	109	72.8	49.6	35.1	25.2	17.8	12.3	8.31	5.21
-20.0	243	331	384	393	353	259	175	112	74.7	50.2	33.9	23.3	15.5	10.3	6.47
-15.0	389	522	627	657	567	427	301	170	109	67.5	43.5	28.8	18.8	12.3	7.69
-10.0	542	768	950	985	842	602	426	258	148	87.0	53.2	34.3	21.9	14.1	8.86
-5.0	684	995	1265	1315	1099	837	559	347	174	104	61.2	38.8	24.5	15.6	9.83
0.0	752	1111	1415	1514	1318	974	640	383	183	114	66.0	41.9	26.1	16.6	10.5
5.0	741	1087	1401	1417	1228	922	607	368	189	111	64.6	41.0	25.8	16.4	10.3
10.0	634	918	1086	1105	972	739	500	313	170	98.4	59.7	38.3	24.4	15.7	9.79
15.0	473	634	734	736	664	520	361	234	135	81.1	52.5	34.2	22.4	14.5	8.98
20.0	311	399	452	456	414	337	246	155	99.1	64.9	44.0	29.3	19.7	12.9	8.02
25.0	175	227	248	244	225	185	141	101	70.7	50.7	35.1	24.5	16.8	11.1	6.95
30.0	104	122	133	132	124	107	86.5	66.7	51.2	37.6	27.7	19.9	13.8	9.21	5.95
35.0	60.3	69.3	74.9	74.8	71.0	63.1	53.9	44.3	35.1	27.9	21.2	15.4	10.9	7.36	5.05
40.0	36.7	40.2	42.1	41.8	40.9	38.0	33.9	29.2	24.5	20.0	15.4	11.5	8.21	5.82	4.23
45.0	22.8	24.6	25.2	24.6	24.5	23.4	21.4	19.1	16.4	13.6	10.9	8.22	6.15	4.62	3.84
50.0	13.9	14.5	14.8	14.4	14.5	14.0	13.1	11.8	10.3	8.78	7.26	5.88	4.66	3.94	3.52
55.0	7.86	8.05	7.98	7.60	7.82	7.73	7.37	6.82	6.15	5.50	4.95	4.32	3.87	3.55	3.20
60.0	4.33	4.24	3.99	3.60	3.86	4.00	3.99	3.92	3.75	3.60	3.59	3.70	3.38	3.15	2.95
65.0	2.52	2.26	1.95	1.60	1.88	2.13	2.33	2.55	2.76	2.87	3.01	3.07	3.08	2.84	2.74
70.0	1.89	1.62	1.32	1.00	1.27	1.52	1.75	1.95	2.15	2.41	2.54	2.66	2.79	2.64	2.53
75.0	1.40	1.15	0.88	0.60	0.85	1.08	1.32	1.55	1.79	2.00	2.19	2.41	2.50	2.34	2.26
80.0	1.13	0.89	0.65	0.40	0.63	0.85	1.06	1.27	1.47	1.67	1.87	2.10	2.29	2.16	2.07
85.0	0.94	0.73	0.51	0.30	0.50	0.70	0.90	1.08	1.27	1.45	1.63	1.81	1.99	1.97	1.94
90.0	0.80	0.60	0.40	0.20	0.39	0.58	0.77	0.96	1.14	1.33	1.52	1.71	1.90	1.87	1.85

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	0.70	0.87	1.03	1.20	1.36	1.53	1.70
-85.0	0.77	0.92	1.05	1.17	1.30	1.49	1.70
-80.0	0.85	0.98	1.14	1.29	1.40	1.45	1.70
-75.0	0.96	1.09	1.21	1.34	1.46	1.50	1.70
-70.0	1.03	1.22	1.32	1.40	1.50	1.58	1.70
-65.0	1.19	1.29	1.42	1.50	1.56	1.63	1.70
-60.0	1.43	1.44	1.51	1.59	1.59	1.65	1.70
-55.0	1.54	1.67	1.61	1.67	1.66	1.66	1.70
-50.0	1.80	1.78	1.77	1.76	1.74	1.68	1.70
-45.0	2.08	1.95	1.95	1.83	1.81	1.72	1.70
-40.0	2.37	2.19	2.08	1.92	1.85	1.76	1.70
-35.0	2.71	2.42	2.16	2.03	1.89	1.79	1.70
-30.0	3.00	2.66	2.33	2.15	1.96	1.80	1.70
-25.0	3.44	2.90	2.53	2.26	2.03	1.82	1.70
-20.0	4.04	3.14	2.69	2.37	2.09	1.83	1.70
-15.0	4.62	3.39	2.84	2.46	2.15	1.85	1.70
-10.0	5.19	3.57	2.97	2.55	2.20	1.86	1.70
-5.0	5.66	3.74	3.09	2.63	2.25	1.88	1.70
0.0	6.00	3.90	3.20	2.70	2.30	1.90	1.70
5.0	5.93	3.89	3.19	2.69	2.29	1.90	1.70
10.0	5.72	3.87	3.18	2.68	2.28	1.90	1.70
15.0	5.37	3.82	3.14	2.66	2.27	1.90	1.70
20.0	4.98	3.71	3.09	2.62	2.24	1.90	1.70
25.0	4.47	3.60	3.02	2.58	2.21	1.90	1.70
30.0	4.10	3.43	2.90	2.52	2.18	1.90	1.70
35.0	3.86	3.28	2.78	2.46	2.14	1.90	1.70
40.0	3.64	3.12	2.73	2.39	2.12	1.89	1.70
45.0	3.33	2.96	2.66	2.34	2.13	1.86	1.70
50.0	3.12	2.77	2.53	2.28	2.06	1.83	1.70
55.0	2.91	2.69	2.43	2.19	1.99	1.81	1.70
60.0	2.73	2.51	2.32	2.15	1.93	1.81	1.70
65.0	2.54	2.38	2.19	2.06	1.92	1.81	1.70
70.0	2.34	2.21	2.14	1.96	1.87	1.75	1.70
75.0	2.22	2.09	1.99	1.92	1.83	1.68	1.70
80.0	2.03	1.96	1.91	1.85	1.77	1.64	1.70
85.0	1.89	1.86	1.81	1.73	1.67	1.68	1.70
90.0	1.83	1.81	1.78	1.76	1.74	1.72	1.70

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:**