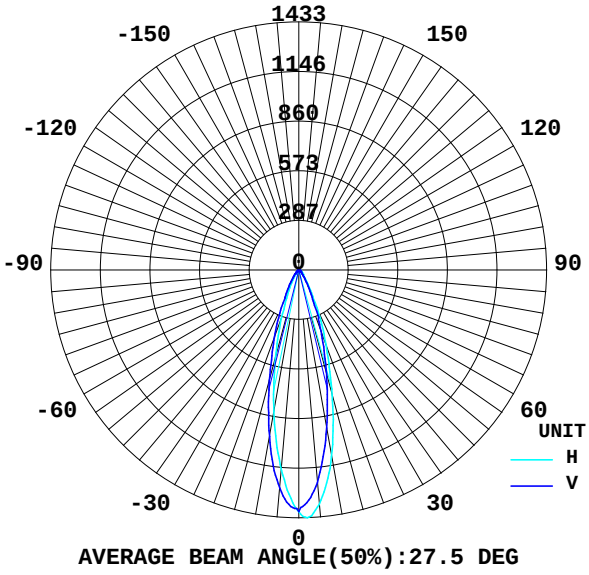
LUMINAIRE PHOTOMETRIC TEST REPORT

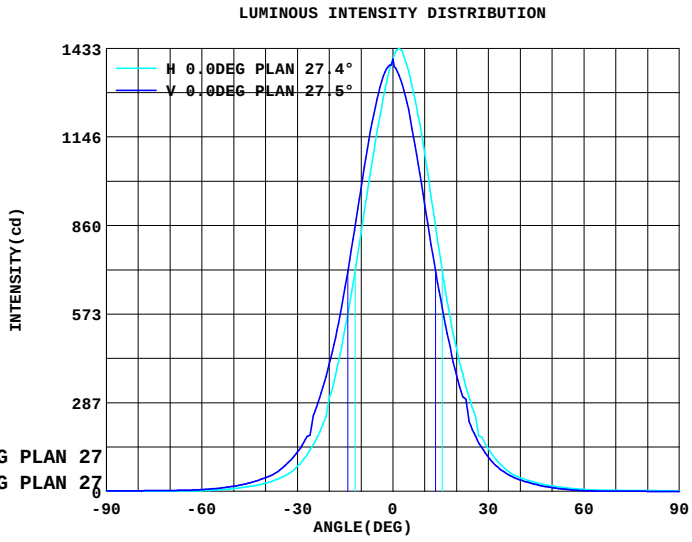
Report number:

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

MODEL:					
NOMINAL POWER(W):	10	Imax(cd):	1433	Voltage(V)	24.20
RATED VOLTAGE(V):	24	AVAILABILITY(%):	80.6	Current(A)	0.402
NOMINAL FLUX(lm):	462	Avai. FLUX(lm):	372.7	Power(W)	9.740
TEST FLUX(lm):	462	EFFICIENCY(%):	100.0	Power Factor(PF)	1.000
LAMPS QUANTITY :	1	TOTAL FLUX(lm):	462.1	EFFICIENCY(lm/W)	47.5
Effictive Flux(lm) :	372.7	θ @50%(H, V):	27.4,27.9DEG	EEI:	0.276



AVERAGE BEAM ANGLE(50%):27.5 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:

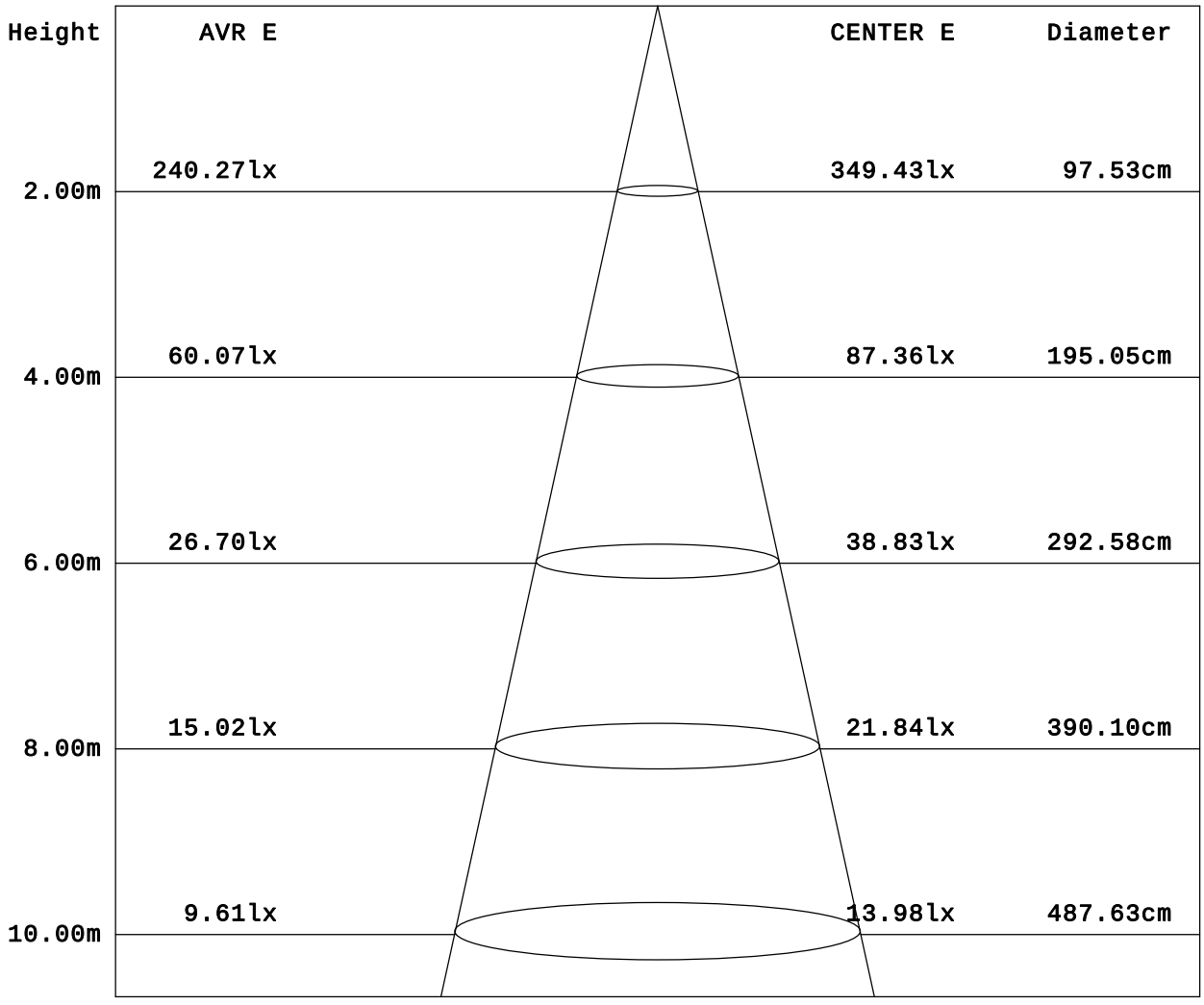
MANUFACTURER:		
Address:		
NAME:	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION:	SERIAL No.:

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:27.4deg

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) \ HORIZONTAL(DEG)	AREA FLUX DIAGRAM UNIT:lm																		Φ t	Φ a
45	0.03	0.05	0.07	0.09	0.12	0.15	0.18	0.20	0.22	0.23	0.23	0.21	0.19	0.16	0.14	0.11	0.08	0.05	2.48	0.00
40	0.04	0.06	0.09	0.13	0.17	0.23	0.28	0.33	0.36	0.37	0.37	0.34	0.30	0.25	0.20	0.15	0.11	0.07	3.85	0.00
35	0.05	0.08	0.13	0.18	0.26	0.35	0.45	0.55	0.62	0.65	0.63	0.56	0.47	0.38	0.29	0.20	0.14	0.09	6.08	0.00
30	0.07	0.11	0.17	0.26	0.38	0.55	0.75	0.96	1.10	1.17	1.13	0.97	0.77	0.57	0.40	0.27	0.18	0.12	9.94	2.87
25	0.08	0.13	0.22	0.35	0.56	0.86	1.26	1.75	2.11	2.25	2.13	1.77	1.30	0.86	0.55	0.35	0.22	0.14	16.9	12.5
20	0.10	0.16	0.27	0.47	0.80	1.32	2.15	2.97	3.57	3.80	3.56	2.93	2.13	1.28	0.74	0.44	0.26	0.16	27.1	23.6
15	0.11	0.19	0.33	0.59	1.07	1.97	3.17	4.50	5.56	5.97	5.54	4.36	2.96	1.80	0.96	0.53	0.30	0.18	40.1	37.0
	0.11	0.20	0.37	0.70	1.33	2.55	4.21	6.14	7.81	8.43	7.70	5.75	3.74	2.25	1.15	0.61	0.33	0.19	53.6	50.8
	0.12	0.21	0.39	0.76	1.46	2.89	4.89	7.36	9.48	10.2	9.05	6.66	4.23	2.50	1.27	0.66	0.35	0.20	62.7	60.0
	0.12	0.21	0.38	0.75	1.45	2.85	4.85	7.26	9.35	10.3	9.03	6.62	4.21	2.47	1.25	0.65	0.34	0.20	62.4	59.6
	0.11	0.20	0.36	0.68	1.28	2.47	4.08	6.01	7.92	8.61	7.60	5.64	3.66	2.17	1.09	0.59	0.32	0.18	53.0	50.2
-15	0.10	0.18	0.31	0.56	1.02	1.86	3.00	4.45	5.77	6.18	5.52	4.22	2.83	1.64	0.88	0.49	0.27	0.16	39.4	36.3
-20	0.09	0.15	0.26	0.43	0.74	1.22	2.07	3.00	3.74	3.98	3.59	2.83	1.90	1.11	0.66	0.39	0.23	0.14	26.5	23.0
-25	0.08	0.13	0.21	0.32	0.51	0.82	1.26	1.81	2.30	2.42	2.15	1.65	1.12	0.74	0.47	0.29	0.18	0.11	16.5	12.1
-30	0.06	0.10	0.16	0.24	0.35	0.53	0.77	1.01	1.20	1.25	1.13	0.93	0.70	0.48	0.31	0.21	0.14	0.09	9.68	3.31
-35	0.05	0.08	0.11	0.17	0.25	0.35	0.47	0.60	0.71	0.73	0.66	0.55	0.43	0.30	0.21	0.15	0.10	0.07	5.98	0.00
-40	0.03	0.05	0.08	0.12	0.17	0.23	0.30	0.36	0.41	0.42	0.38	0.33	0.26	0.20	0.14	0.10	0.07	0.05	3.72	0.00
-45	0.02	0.03	0.05	0.08	0.12	0.15	0.19	0.23	0.26	0.26	0.24	0.21	0.17	0.13	0.09	0.06	0.04	0.03	2.38	0.00
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)	10	15	20	25	30	35	40	45			
Φ t	1.35	2.32	3.95	6.88	12.0	21.3	34.3	49.5	62.5	67.4	60.7	46.5	31.4	19.3	10.8	6.23	3.66	2.23	462	
Φ a	0.00	0.00	0.00	0.00	6.72	16.9	30.5	46.0	59.2	64.1	57.3	43.1	27.5	15.0	4.98	0.00	0.00	0.00		373

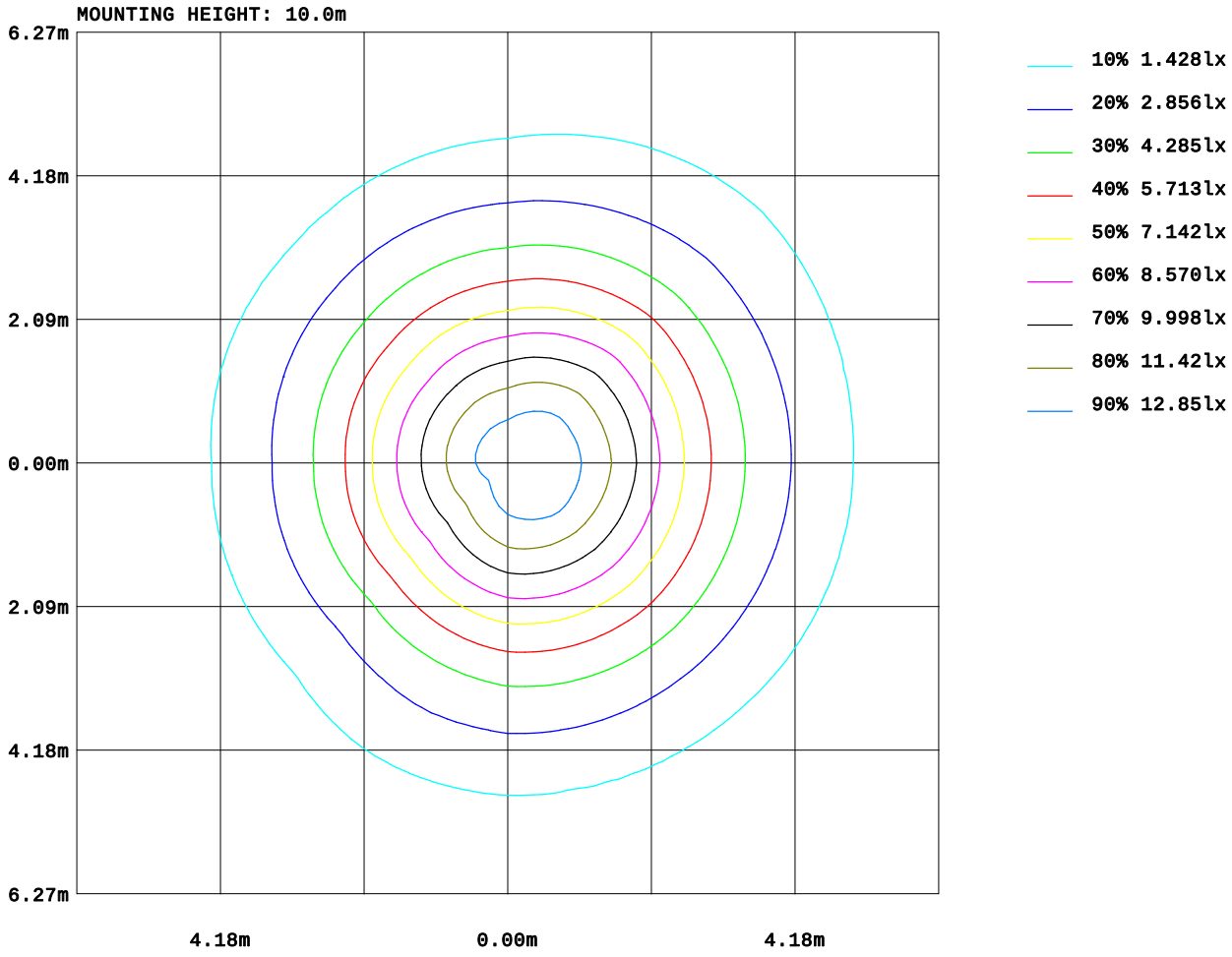
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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.:



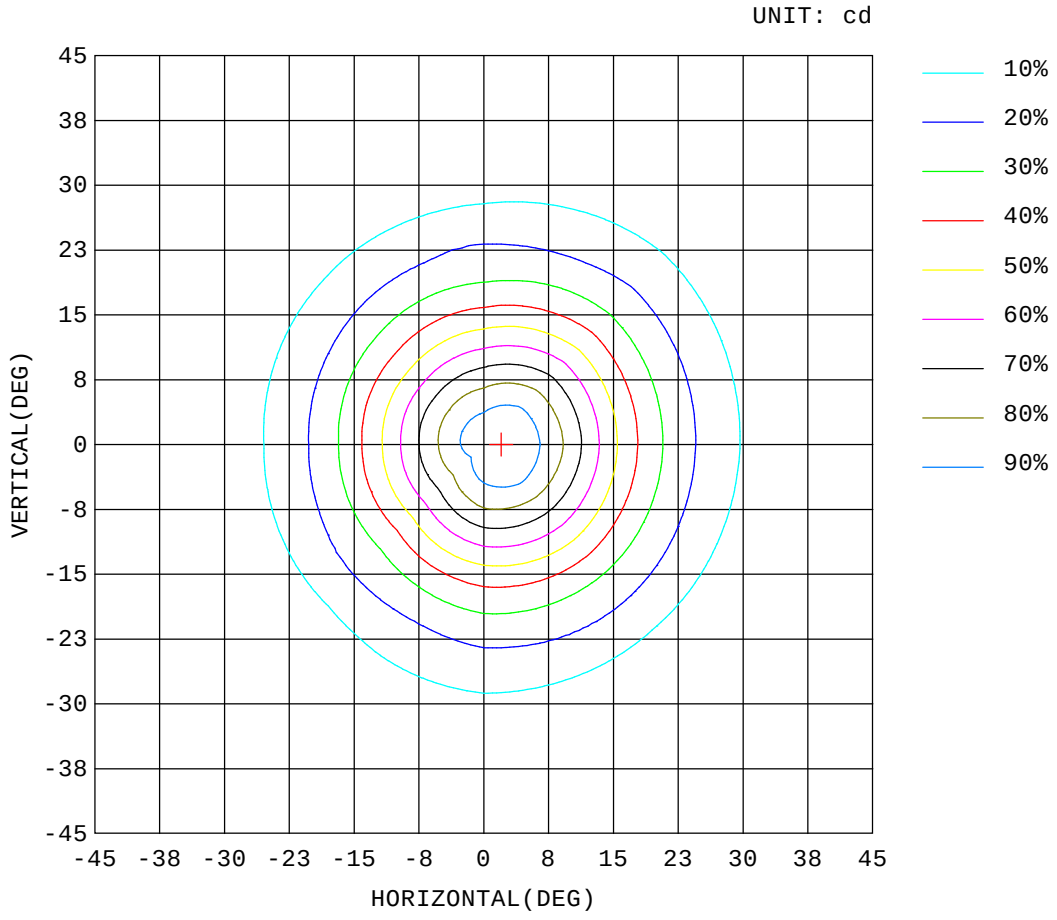
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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

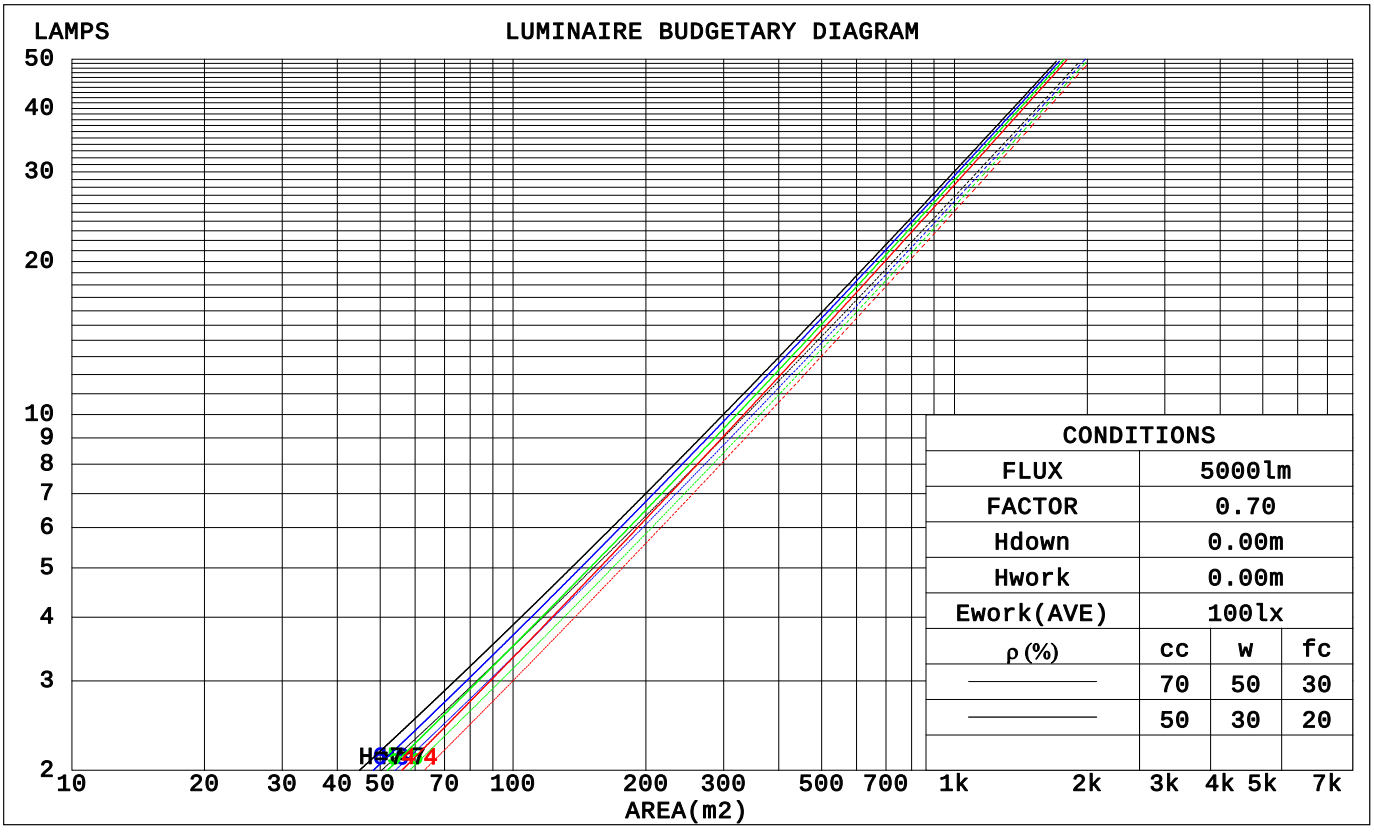
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

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	.99	.97	.96	.96	.94
2.0	1.05	1.01	.98	1.03	.00	.97	.00	.97	.95	.97	.94	.93	.94	.92	.90	.89
3.0	.99	.95	.91	.98	.94	.90	.95	.92	.89	.92	.90	.87	.90	.88	.86	.84
4.0	.94	.89	.86	.93	.88	.85	.91	.87	.84	.88	.85	.83	.87	.84	.82	.80
5.0	.89	.84	.81	.88	.84	.80	.87	.83	.79	.85	.81	.79	.83	.80	.78	.77
6.0	.85	.80	.77	.84	.80	.76	.83	.79	.76	.81	.78	.75	.80	.77	.74	.73
7.0	.82	.76	.73	.81	.76	.73	.80	.75	.72	.78	.75	.72	.77	.74	.71	.70
8.0	.78	.73	.70	.78	.73	.69	.76	.72	.69	.75	.72	.69	.74	.71	.68	.67
9.0	.75	.70	.67	.75	.70	.67	.74	.69	.66	.73	.69	.66	.72	.68	.66	.65
10.0	.72	.67	.64	.72	.67	.64	.71	.67	.64	.70	.66	.64	.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	1360	1347	1266	1146	1163	1186	1236	1334	0- 5	31.51	31.51
10.0	1094	1056	977.0	828.1	831.5	857.1	927.5	1074	5- 10	78.43	109.9
15.0	748.8	728.2	658.9	525.5	525.8	552.2	622.2	742.8	10- 15	92.96	202.9
20.0	465.0	444.1	412.3	305.6	301.8	330.8	378.6	470.8	15- 20	82.24	285.1
25.0	270.1	230.0	244.0	155.8	150.3	168.5	199.3	280.0	20- 25	61.38	346.5
30.0	137.8	122.0	126.6	84.40	80.80	92.19	110.8	142.3	25- 30	38.99	385.5
35.0	75.40	66.90	72.79	47.70	44.90	52.70	62.40	81.50	30- 35	24.82	410.3
40.0	44.20	35.50	43.59	28.90	25.90	31.00	36.89	49.29	35- 40	16.18	426.5
45.0	28.20	21.50	27.29	17.40	15.90	19.50	22.20	30.79	40- 45	10.84	437.3
50.0	17.80	11.80	16.40	9.900	9.300	12.00	12.00	19.79	45- 50	7.179	444.5
55.0	10.59	5.900	9.700	4.800	4.700	7.100	5.800	12.10	50- 55	4.505	449.0
60.0	6.300	2.800	5.600	1.800	1.900	4.500	2.200	7.000	55- 60	2.611	451.6
65.0	4.100	1.200	3.700	0.800	1.300	3.300	0.800	4.000	60- 65	1.484	453.1
70.0	3.300	0.700	2.800	0.400	0.900	2.700	0.500	3.000	65- 70	1.041	454.2
75.0	2.700	0.300	2.300	0.200	0.700	2.200	0.100	2.500	70- 75	0.813	455.0
80.0	2.300	0.200	1.900	0	0.600	1.900	0	2.100	75- 80	0.659	455.6
85.0	2.000	0	1.600	0	0.400	1.600	0	1.700	80- 85	0.547	456.2
90.0	1.700	0	1.400	0	0.400	1.300	0	1.400	85- 90	0.462	456.6
95.0	1.600	0	1.200	0	0.400	1.200	0	1.200	90- 95	0.408	457.1
100.0	1.500	0	1.000	0	0.400	1.100	0	1.200	95-100	0.368	457.4
105.0	1.400	0	1.000	0	0.500	1.100	0	1.000	100-105	0.337	457.8
110.0	1.200	0	1.000	0	0.500	0.900	0	1.000	105-110	0.307	458.1
115.0	1.200	0	0.900	0	0.500	0.900	0	0.800	110-115	0.280	458.3
120.0	1.100	0	0.700	0	0.600	0.900	0	0.900	115-120	0.258	458.6
125.0	1.100	0	0.700	0	0.700	0.900	0.100	0.900	120-125	0.245	458.9
130.0	1.000	0	0.700	0	0.900	0.900	0.200	0.900	125-130	0.248	459.1
135.0	1.000	0.200	0.700	0.100	1.200	1.200	0.400	1.000	130-135	0.264	459.4
140.0	1.100	0.200	0.800	0.200	1.500	1.400	0.800	1.200	135-140	0.300	459.7
145.0	1.100	0.400	0.900	0.500	1.900	1.800	1.100	1.500	140-145	0.343	460.0
150.0	1.300	0.600	1.200	0.800	2.400	2.300	1.600	1.900	145-150	0.386	460.4
155.0	1.600	0.900	1.500	1.200	2.800	2.500	2.000	2.400	150-155	0.424	460.8
160.0	1.900	1.300	1.700	1.400	3.100	2.800	2.300	2.600	155-160	0.420	461.2
165.0	2.200	1.700	2.100	1.800	3.100	2.800	2.500	2.800	160-165	0.374	461.6
170.0	2.500	1.800	2.300	2.000	3.300	2.700	2.500	2.800	165-170	0.290	461.9
175.0	2.700	2.100	2.400	2.100	3.100	2.700	2.500	2.800	170-175	0.179	462.1
180.0	2.800	2.300	2.600	2.400	3.200	2.600	2.300	2.500	175-180	0.061	462.1
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	.161	.092	.029	.154	.088	.028	.141	.081	.026	.129	.074	.024	.118	.068	.022	
2.0	.151	.083	.025	.145	.080	.025	.134	.075	.023	.124	.070	.022	.115	.065	.020	
3.0	.142	.076	.023	.137	.073	.022	.128	.069	.021	.119	.065	.020	.111	.061	.019	
4.0	.134	.070	.020	.130	.068	.020	.122	.064	.019	.114	.061	.018	.107	.058	.018	
5.0	.127	.065	.019	.123	.063	.018	.116	.060	.018	.109	.058	.017	.103	.055	.017	
6.0	.120	.060	.017	.117	.059	.017	.111	.057	.017	.105	.055	.016	.100	.052	.016	
7.0	.114	.056	.016	.111	.055	.016	.106	.054	.015	.101	.052	.015	.096	.050	.015	
8.0	.109	.053	.015	.106	.052	.015	.102	.051	.014	.097	.049	.014	.093	.048	.014	
9.0	.104	.050	.014	.102	.050	.014	.097	.048	.014	.093	.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	.200	.200	.200	.171	.171	.171	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.179	.167	.155	.153	.143	.134	.105	.098	.092	.060	.057	.054	.019	.018	.017	
2.0	.163	.142	.124	.139	.122	.107	.095	.084	.075	.055	.049	.044	.018	.016	.014	
3.0	.149	.123	.102	.128	.106	.088	.088	.074	.062	.051	.043	.036	.016	.014	.012	
4.0	.138	.108	.085	.118	.093	.074	.081	.065	.052	.047	.038	.031	.015	.012	.010	
5.0	.128	.096	.072	.110	.083	.063	.076	.058	.044	.044	.034	.026	.014	.011	.009	
6.0	.120	.086	.062	.103	.075	.054	.071	.052	.038	.041	.031	.023	.013	.010	.007	
7.0	.113	.078	.054	.097	.068	.047	.067	.048	.033	.039	.028	.020	.013	.009	.007	
8.0	.107	.072	.048	.092	.062	.042	.064	.044	.030	.037	.026	.018	.012	.008	.006	
9.0	.101	.066	.043	.087	.058	.037	.060	.041	.027	.035	.024	.016	.011	.008	.005	
10.0	.096	.062	.039	.083	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005	

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	2.3	3.1	2.5	3.3	3.4	2.1	2.9	2.3	3.0	3.2
3H	2.4	3.1	2.6	3.3	3.5	2.1	2.8	2.4	3.1	3.3
4H	2.5	3.2	2.8	3.4	3.6	2.2	2.9	2.5	3.1	3.3
6H	2.7	3.3	3.0	3.6	3.9	2.3	3.0	2.6	3.2	3.5
8H	2.9	3.5	3.2	3.8	4.0	2.4	3.1	2.7	3.3	3.6
12H	3.1	3.7	3.4	4.0	4.3	2.6	3.2	2.9	3.5	3.8
4H 2H	2.1	2.8	2.4	3.0	3.3	1.9	2.6	2.2	2.8	3.1
3H	2.2	2.8	2.5	3.1	3.4	1.9	2.5	2.3	2.8	3.1
4H	2.3	2.9	2.7	3.2	3.5	2.0	2.6	2.4	2.9	3.2
6H	2.7	3.1	3.0	3.5	3.9	2.2	2.7	2.6	3.1	3.4
8H	2.9	3.4	3.3	3.7	4.1	2.4	2.9	2.8	3.2	3.6
12H	3.3	3.7	3.7	4.1	4.5	2.7	3.1	3.1	3.5	3.9
8H 4H	2.2	2.7	2.6	3.0	3.4	1.9	2.4	2.3	2.7	3.1
6H	2.6	2.9	3.0	3.3	3.8	2.1	2.5	2.6	2.9	3.4
8H	2.9	3.2	3.4	3.7	4.1	2.4	2.7	2.8	3.1	3.6
12H	3.4	3.7	3.9	4.2	4.7	2.8	3.0	3.3	3.5	4.0
12H 4H	2.2	2.6	2.6	3.0	3.4	1.9	2.3	2.3	2.7	3.1
6H	2.5	2.8	3.0	3.3	3.7	2.1	2.4	2.5	2.9	3.3
8H	2.8	3.1	3.3	3.6	4.1	2.3	2.6	2.8	3.1	3.6
Variations with the observer position at spacings:										
S = 1.0H	+ 1.9 / - 2.2					+ 2.0 / - 2.6				
1.5H	+ 3.0 / - 2.5					+ 3.1 / - 2.8				
2.0H	+ 3.6 / - 2.5					+ 3.9 / - 3.0				

CIE Pub.117 Corrected 462.1 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.7)

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	93	88
1.50	105	100	97	104	100	97	102	98	95	91
2.00	108	104	101	106	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
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	

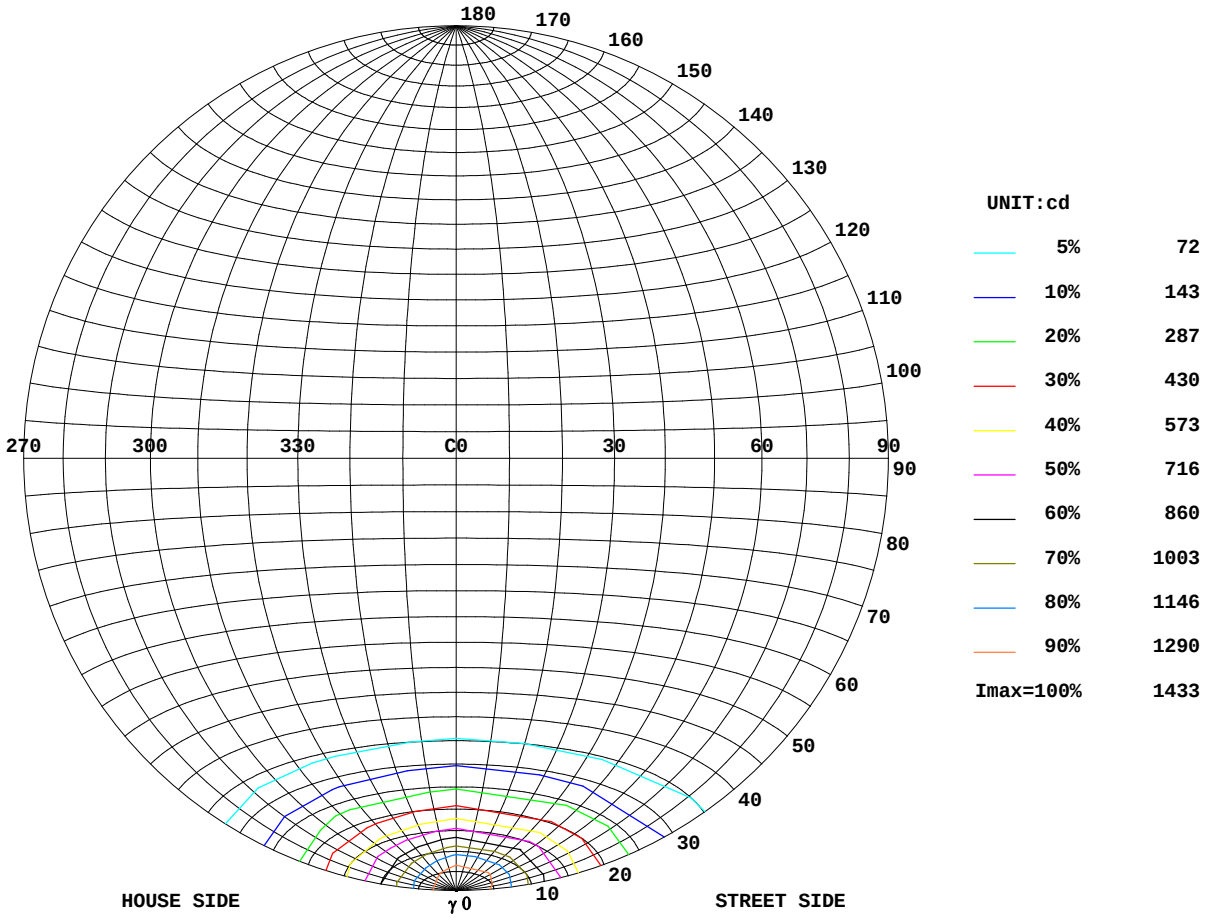
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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.:



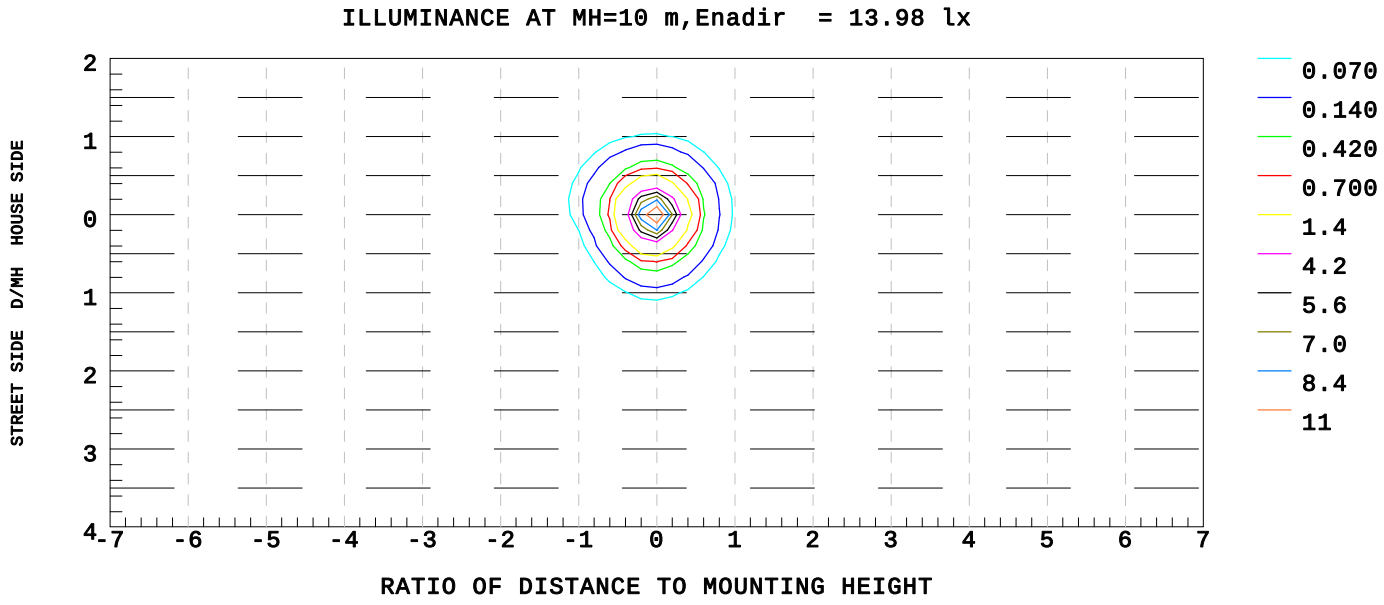
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

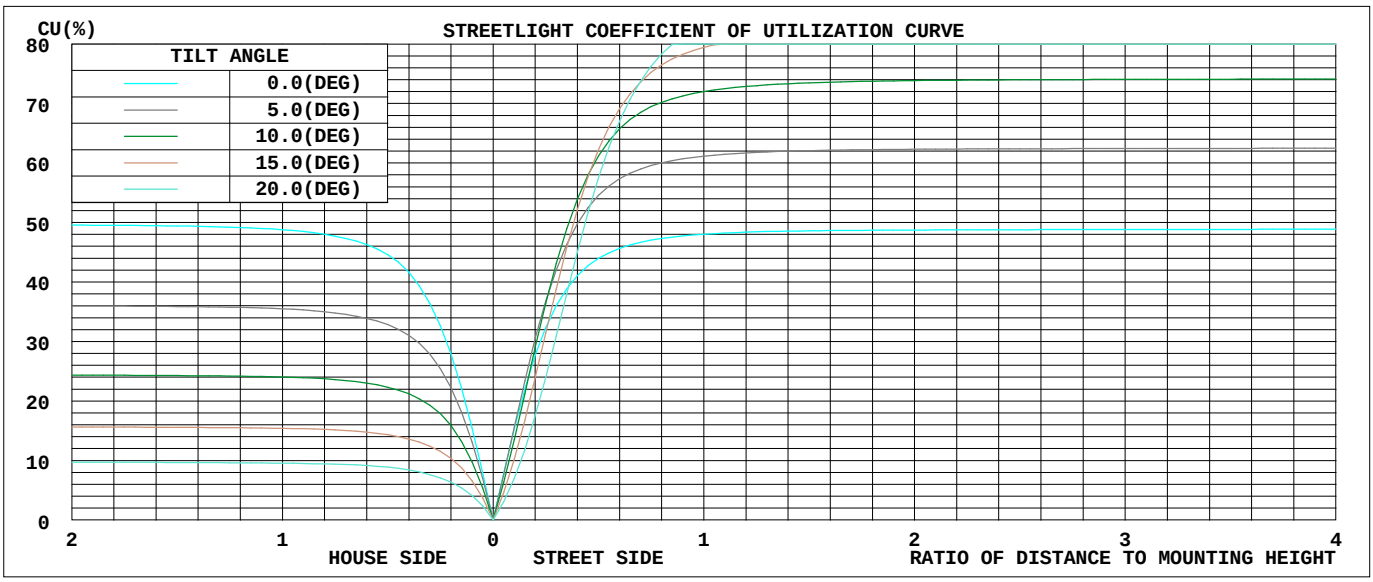
Test Set: 5.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:10.000 m
Remarks:

ISOLUX DIAGRAM

Report number:

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





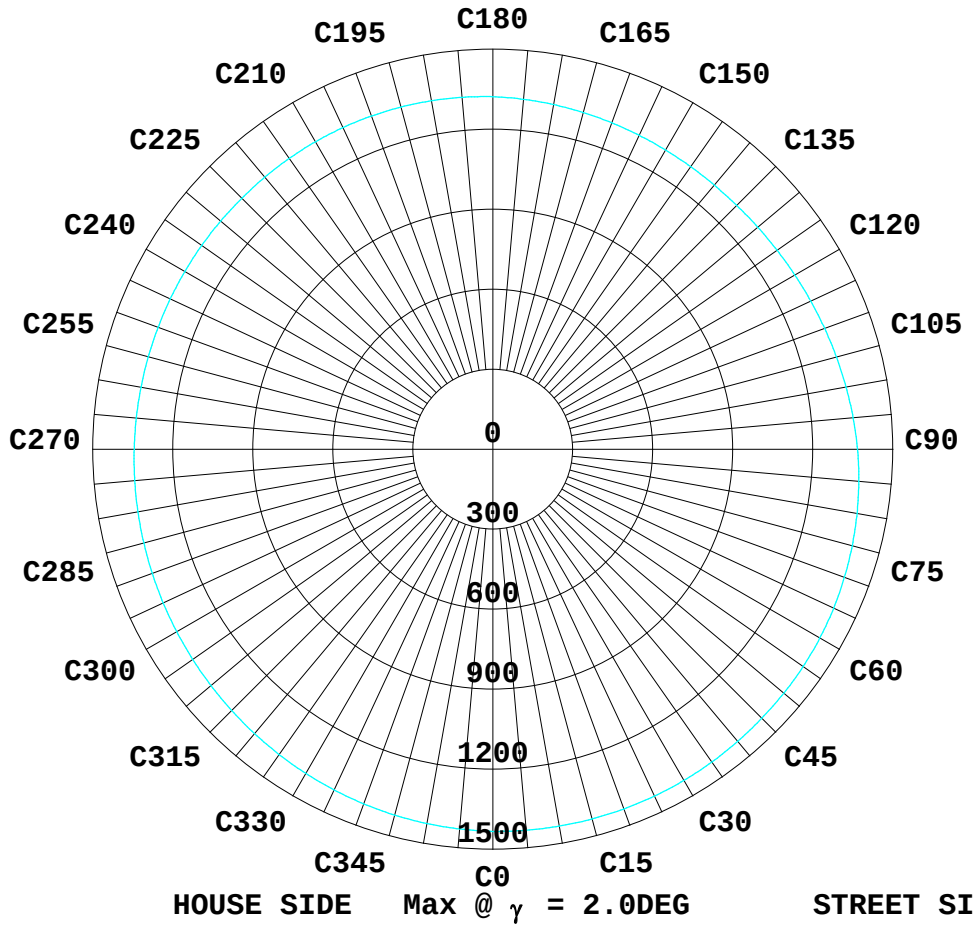
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2025年07月28日

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	0.40	0.36	0.31	0.27	0.22	0.18	0.13	0.09	0.04	0.00	0.16	0.31	0.47	0.62	0.78
-85.0	0.40	0.36	0.31	0.27	0.22	0.18	0.13	0.09	0.05	0.00	0.17	0.35	0.53	0.71	0.89
-80.0	0.40	0.36	0.31	0.27	0.22	0.18	0.14	0.09	0.05	0.00	0.18	0.40	0.63	0.84	1.03
-75.0	0.40	0.36	0.31	0.27	0.23	0.18	0.16	0.15	0.11	0.01	0.18	0.45	0.75	0.97	1.19
-70.0	0.40	0.36	0.32	0.27	0.23	0.24	0.22	0.14	0.14	0.12	0.37	0.66	0.91	1.25	1.59
-65.0	0.40	0.36	0.32	0.28	0.29	0.28	0.24	0.27	0.35	0.27	0.42	0.82	1.24	1.62	2.02
-60.0	0.40	0.36	0.32	0.31	0.35	0.31	0.37	0.40	0.39	0.51	0.65	1.08	1.54	2.11	2.83
-55.0	0.40	0.36	0.33	0.34	0.34	0.42	0.47	0.49	0.66	0.76	0.81	1.45	2.53	3.81	5.23
-50.0	0.40	0.37	0.33	0.39	0.37	0.51	0.52	0.71	0.88	0.99	1.60	2.90	4.75	6.87	9.18
-45.0	0.40	0.37	0.34	0.42	0.51	0.55	0.69	0.90	1.06	1.82	3.27	5.14	8.10	11.3	15.0
-40.0	0.40	0.37	0.40	0.43	0.56	0.61	0.85	1.03	1.65	3.25	5.52	8.60	12.5	17.3	23.0
-35.0	0.40	0.37	0.42	0.47	0.61	0.74	1.01	1.31	2.67	5.08	8.49	12.6	17.7	24.9	34.2
-30.0	0.40	0.38	0.39	0.44	0.65	0.83	1.12	1.78	4.00	7.13	11.6	17.4	24.6	35.4	50.1
-25.0	0.40	0.38	0.38	0.54	0.63	0.94	1.24	2.43	5.24	9.44	15.0	22.5	34.1	48.7	72.6
-20.0	0.40	0.38	0.45	0.63	0.70	1.03	1.40	3.12	6.48	11.4	18.4	28.7	44.5	68.3	109
-15.0	0.40	0.39	0.50	0.65	0.77	1.13	1.54	3.90	7.62	13.4	21.4	35.1	55.8	94.3	159
-10.0	0.40	0.39	0.55	0.67	0.83	1.20	1.73	4.43	8.61	14.8	24.0	40.4	67.7	122	214
-5.0	0.40	0.40	0.58	0.68	0.87	1.26	1.85	4.64	9.15	15.7	25.6	43.9	77.5	144	277
0.0	0.40	0.40	0.60	0.70	0.90	1.30	1.90	4.70	9.30	15.9	25.9	44.9	80.8	150	302
5.0	0.40	0.41	0.62	0.74	0.96	1.39	2.02	4.82	9.34	15.9	25.9	44.6	79.0	147	279
10.0	0.40	0.42	0.62	0.79	1.01	1.46	2.08	4.80	8.99	15.2	24.4	41.5	70.6	127	234
15.0	0.40	0.43	0.61	0.83	1.04	1.51	2.07	4.47	8.24	14.0	22.3	36.4	59.2	101	168
20.0	0.40	0.44	0.58	0.87	1.05	1.53	2.09	3.88	7.30	12.3	19.4	30.0	47.5	74.6	117
25.0	0.40	0.45	0.54	0.83	1.03	1.51	2.06	3.43	6.27	10.5	16.3	24.1	36.1	53.5	78.3
30.0	0.40	0.46	0.59	0.77	1.13	1.47	2.03	2.95	5.27	8.53	12.9	19.0	26.5	37.5	51.7
35.0	0.40	0.47	0.65	0.86	1.12	1.49	2.03	2.67	4.18	6.63	10.1	14.4	19.8	26.1	33.8
40.0	0.40	0.48	0.65	0.85	1.13	1.45	1.89	2.44	3.38	5.09	7.52	10.6	13.9	18.0	22.5
45.0	0.40	0.48	0.60	0.87	1.18	1.40	1.78	2.35	2.90	3.93	5.51	7.44	9.62	11.8	14.3
50.0	0.40	0.49	0.62	0.86	1.06	1.35	1.71	2.09	2.69	3.24	4.19	5.19	6.11	7.31	8.61
55.0	0.40	0.49	0.63	0.82	1.04	1.39	1.61	2.01	2.34	2.93	3.38	3.65	3.92	4.40	4.80
60.0	0.40	0.50	0.63	0.80	1.08	1.28	1.58	1.80	2.19	2.53	2.85	2.89	2.75	2.69	2.67
65.0	0.40	0.51	0.63	0.79	1.00	1.24	1.46	1.77	1.94	2.24	2.47	2.34	2.12	1.99	1.87
70.0	0.40	0.51	0.62	0.78	0.92	1.16	1.40	1.56	1.83	2.14	2.05	1.85	1.69	1.54	1.39
75.0	0.40	0.51	0.62	0.75	0.92	1.08	1.24	1.47	1.67	1.87	1.77	1.63	1.46	1.27	1.06
80.0	0.40	0.51	0.63	0.74	0.86	1.01	1.18	1.37	1.50	1.59	1.55	1.41	1.21	1.01	0.83
85.0	0.40	0.50	0.62	0.74	0.87	1.00	1.09	1.18	1.30	1.45	1.32	1.17	1.02	0.87	0.70
90.0	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.15	1.01	0.87	0.72	0.58

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)	-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	0.19	0.38
-85.0	1.06	1.24	1.42	1.60	1.42	1.24	1.06	0.89	0.71	0.53	0.35	0.17	0.00	0.22	0.43
-80.0	1.24	1.46	1.68	1.90	1.70	1.50	1.29	1.07	0.85	0.65	0.46	0.27	0.12	0.33	0.52
-75.0	1.48	1.77	2.04	2.30	2.06	1.80	1.56	1.32	1.09	0.83	0.59	0.36	0.25	0.44	0.62
-70.0	1.92	2.22	2.51	2.80	2.55	2.30	2.05	1.77	1.43	1.11	0.78	0.46	0.48	0.56	0.78
-65.0	2.43	2.88	3.31	3.70	3.36	2.98	2.57	2.22	1.87	1.49	1.07	0.79	0.69	0.79	0.99
-60.0	3.63	4.39	5.05	5.60	5.17	4.64	4.01	3.29	2.55	1.99	1.43	1.04	1.00	1.15	1.18
-55.0	6.62	7.89	8.91	9.70	9.06	8.22	7.12	5.80	4.47	3.32	2.26	1.54	1.43	1.53	1.52
-50.0	11.4	13.4	15.1	16.4	15.4	13.9	12.1	9.99	7.72	5.79	3.84	2.79	2.11	1.89	1.89
-45.0	18.5	22.0	25.1	27.2	25.7	23.1	19.7	16.2	12.8	9.52	6.32	4.78	3.55	2.56	2.21
-40.0	29.2	35.4	40.2	43.5	41.3	37.5	32.0	26.2	19.9	14.4	10.7	7.63	5.44	3.83	2.80
-35.0	44.5	55.4	65.7	72.7	69.2	61.2	50.5	39.3	29.9	21.9	15.7	11.7	7.89	5.30	3.60
-30.0	69.3	91.5	113	127	121	105	85.3	64.1	44.3	31.7	23.3	16.0	11.0	7.25	4.67
-25.0	109	151	198	244	216	180	140	101	69.4	45.6	31.3	21.5	14.5	9.22	5.73
-20.0	174	260	361	412	398	339	244	158	103	65.5	40.7	27.5	17.8	11.3	7.00
-15.0	293	410	557	659	637	537	397	250	145	87.8	51.9	33.2	21.1	13.6	8.25
-10.0	381	573	815	977	948	781	553	356	188	110	62.9	38.4	24.4	15.4	9.30
-5.0	481	756	1021	1266	1243	994	687	431	248	129	71.4	42.1	26.8	16.9	10.0
0.0	526	832	1163	1398	1360	1094	749	465	270	138	75.4	44.2	28.2	17.8	10.5
5.0	493	767	1058	1236	1248	1006	696	438	260	133	73.6	43.9	27.9	17.6	10.5
10.0	402	600	807	928	940	805	571	372	210	117	67.1	41.5	26.4	16.7	10.2
15.0	289	425	549	622	627	548	419	284	161	96.3	58.4	37.5	24.0	15.5	9.51
20.0	176	273	340	379	383	347	273	183	117	75.0	48.8	32.4	21.5	13.7	8.57
25.0	112	148	182	199	210	196	153	116	83.0	57.3	39.2	27.0	18.5	11.9	7.49
30.0	68.3	86.4	102	111	113	105	90.2	73.4	57.9	42.5	30.8	22.0	15.1	10.0	6.44
35.0	42.7	51.3	58.4	62.4	63.8	60.9	55.1	47.5	39.0	31.3	23.7	17.1	12.0	8.12	5.35
40.0	27.3	31.6	35.0	36.8	38.1	37.2	34.5	30.7	26.3	22.2	17.4	13.0	9.31	6.38	4.43
45.0	16.9	19.2	21.2	22.2	22.9	22.5	21.5	19.7	17.5	14.9	12.5	9.53	6.84	4.95	3.67
50.0	9.97	10.9	11.7	12.0	12.8	13.0	12.7	11.9	10.9	9.67	8.29	6.60	5.03	3.80	3.36
55.0	5.30	5.69	5.85	5.80	6.52	6.94	7.01	6.80	6.41	5.81	5.19	4.53	3.61	3.32	2.99
60.0	2.61	2.56	2.43	2.20	2.74	3.15	3.40	3.53	3.62	3.47	3.28	3.34	3.16	2.89	2.66
65.0	1.68	1.40	1.10	0.80	1.18	1.54	1.83	2.10	2.29	2.48	2.63	2.75	2.65	2.61	2.36
70.0	1.20	0.99	0.75	0.50	0.79	1.05	1.31	1.53	1.71	1.90	2.15	2.34	2.30	2.31	2.20
75.0	0.82	0.58	0.34	0.10	0.37	0.64	0.89	1.11	1.35	1.60	1.79	1.96	2.10	2.05	1.98
80.0	0.63	0.43	0.21	0.00	0.24	0.47	0.69	0.89	1.07	1.28	1.49	1.70	1.90	1.86	1.82
85.0	0.53	0.36	0.18	0.00	0.19	0.38	0.56	0.74	0.92	1.09	1.25	1.42	1.60	1.63	1.65
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	1.43	1.46

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	0.57	0.76	0.94	1.13	1.32	1.51	1.70
-85.0	0.64	0.85	1.04	1.22	1.39	1.55	1.70
-80.0	0.68	0.90	1.09	1.27	1.46	1.59	1.70
-75.0	0.82	0.99	1.14	1.34	1.49	1.63	1.70
-70.0	0.96	1.11	1.24	1.37	1.53	1.67	1.70
-65.0	1.09	1.24	1.36	1.44	1.59	1.70	1.70
-60.0	1.27	1.38	1.47	1.55	1.61	1.71	1.70
-55.0	1.48	1.52	1.60	1.66	1.64	1.72	1.70
-50.0	1.80	1.72	1.74	1.74	1.70	1.75	1.70
-45.0	2.08	1.92	1.82	1.84	1.78	1.79	1.70
-40.0	2.45	2.19	2.01	1.95	1.86	1.84	1.70
-35.0	2.73	2.46	2.17	2.07	1.94	1.87	1.70
-30.0	3.21	2.73	2.31	2.18	2.02	1.88	1.70
-25.0	3.67	2.99	2.53	2.22	2.09	1.90	1.70
-20.0	4.34	3.19	2.69	2.26	2.13	1.92	1.70
-15.0	4.93	3.41	2.86	2.39	2.17	1.94	1.70
-10.0	5.52	3.68	3.03	2.51	2.21	1.96	1.70
-5.0	5.99	3.92	3.17	2.61	2.25	1.98	1.70
0.0	6.30	4.10	3.30	2.70	2.30	2.00	1.70
5.0	6.25	4.06	3.27	2.68	2.29	1.99	1.70
10.0	6.03	3.96	3.21	2.64	2.29	1.99	1.70
15.0	5.66	3.79	3.13	2.57	2.28	1.99	1.70
20.0	5.23	3.69	3.03	2.49	2.27	1.98	1.70
25.0	4.73	3.59	2.94	2.50	2.26	1.98	1.70
30.0	4.26	3.42	2.79	2.54	2.22	1.97	1.70
35.0	3.77	3.23	2.74	2.46	2.17	1.97	1.70
40.0	3.53	3.01	2.66	2.37	2.12	1.95	1.70
45.0	3.25	2.78	2.43	2.29	2.07	1.92	1.70
50.0	2.95	2.68	2.46	2.22	2.00	1.89	1.70
55.0	2.68	2.41	2.32	2.15	1.95	1.87	1.70
60.0	2.47	2.37	2.21	2.07	1.94	1.86	1.70
65.0	2.33	2.21	2.09	1.96	1.92	1.86	1.70
70.0	2.15	2.05	1.98	1.90	1.86	1.82	1.70
75.0	1.98	1.92	1.87	1.86	1.82	1.78	1.70
80.0	1.80	1.79	1.79	1.78	1.78	1.74	1.70
85.0	1.66	1.68	1.69	1.69	1.70	1.70	1.70
90.0	1.50	1.53	1.56	1.60	1.63	1.66	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:**