

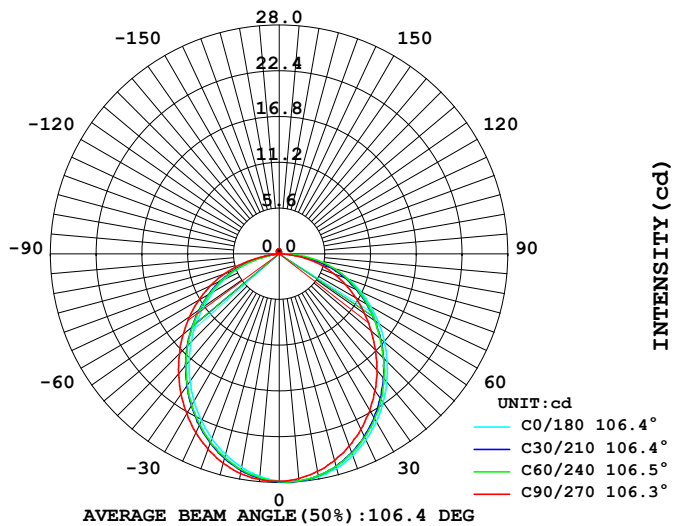
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

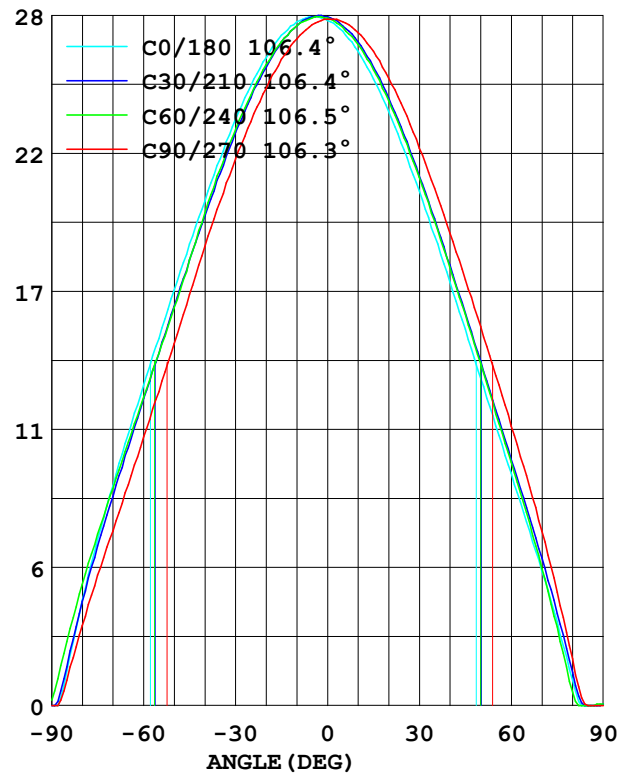
MANUFACTURER:			
Address:			
NAME: 35139		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax(cd)	28.03	S/MH (C0/180)	1.27
MODEL	MR11	EFFICIENCY (%)	100.0	S/MH (C90/270)	1.19
NOMINAL POWER(W)	2.5W	TOTAL FLUX(lm)	75.728	Voltage(V)	11.97
RATED VOLTAGE (V)	12	EFFICIENCY (lm/W)	46.5	Current(A)	0.136
NOMINAL FLUX(lm)	75.7	η up (%)	1.8	Power(W)	1.630
LAMPS QUANTITY	1	η down (%)	98.2	Power Factor (PF)	1.000
TEST VOLTAGE (V)	12.0	Effective Flux(lm)	73.5	EEL	0.146

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



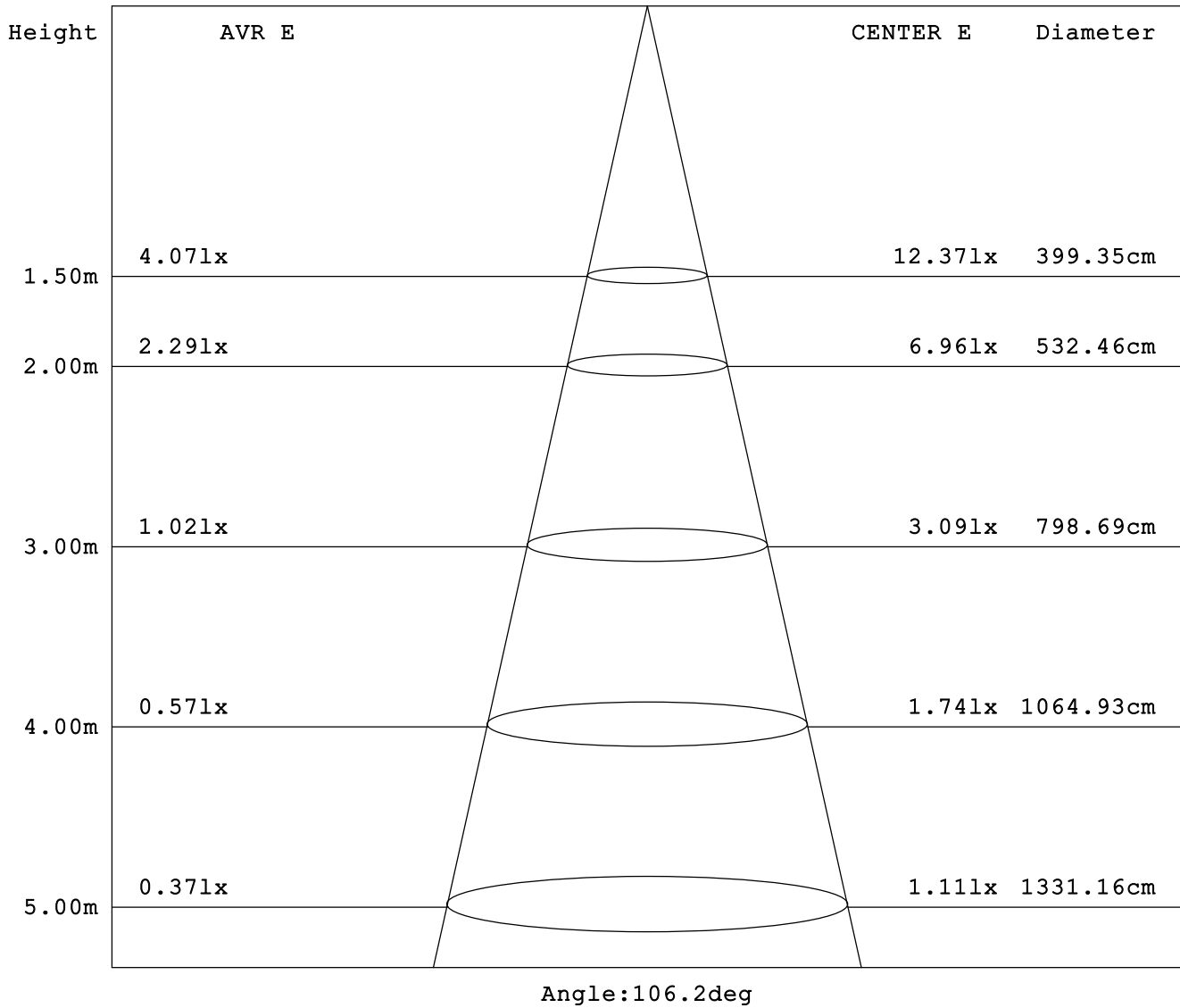
Test System:HOPPO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026年05月21日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.350 m
Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:			
Address:			
NAME: 35139		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026年05月21日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.350 m
Remarks:

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 35139		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Zone	total
5.0	27.98	27.95	27.65	27.36	27.38	27.57	27.76	27.87	0- 5	0.664	0.664
10.0	27.76	27.60	27.06	26.63	26.57	26.90	27.33	27.60	5- 10	1.963	2.627
15.0	27.22	26.95	26.25	25.60	25.44	25.87	26.57	26.98	10- 15	3.176	5.803
20.0	26.30	25.98	25.06	24.33	24.14	24.63	25.49	26.11	15- 20	4.253	10.05
25.0	25.17	24.74	23.71	22.79	22.58	23.12	24.20	24.90	20- 25	5.155	15.21
30.0	23.82	23.33	22.20	21.23	20.90	21.47	22.63	23.52	25- 30	5.857	21.07
35.0	22.20	21.69	20.47	19.44	19.06	19.71	21.01	21.96	30- 35	6.340	27.41
40.0	20.47	19.93	18.63	17.61	17.17	17.82	19.17	20.20	35- 40	6.604	34.01
45.0	18.74	18.09	16.69	15.77	15.28	15.90	17.28	18.39	40- 45	6.646	40.66
50.0	16.85	16.17	14.69	13.85	13.28	13.93	15.39	16.50	45- 50	6.484	47.14
55.0	14.91	14.31	12.74	11.96	11.34	11.91	13.39	14.53	50- 55	6.143	53.28
60.0	13.01	12.50	10.91	10.10	9.453	9.940	11.34	12.53	55- 60	5.637	58.92
65.0	11.02	10.58	8.967	8.211	7.455	7.941	9.345	10.48	60- 65	4.979	63.90
70.0	8.913	8.643	7.076	6.293	5.456	5.780	7.076	8.211	65- 70	4.174	68.08
75.0	6.752	6.725	5.294	4.348	3.403	3.457	4.591	5.780	70- 75	3.211	71.29
80.0	4.267	4.564	3.241	2.079	1.026	0.945	1.890	3.025	75- 80	2.057	73.34
85.0	1.404	2.079	1.026	0.351	0	0	0	0.540	80- 85	0.845	74.19
90.0	0	0.108	0	0	0.054	0.054	0	0	85- 90	0.134	74.32
95.0	0	0	0	0	0.108	0.108	0.054	0.054	90- 95	0.014	74.34
100.0	0	0	0	0	0.162	0.162	0.108	0.108	95-100	0.027	74.37
105.0	0	0	0	0	0.216	0.216	0.162	0.162	100-105	0.042	74.41
110.0	0	0	0	0.027	0.270	0.270	0.216	0.189	105-110	0.055	74.46
115.0	0	0	0.054	0.054	0.324	0.297	0.270	0.243	110-115	0.069	74.53
120.0	0.054	0.054	0.108	0.108	0.378	0.351	0.324	0.297	115-120	0.087	74.62
125.0	0.108	0.081	0.108	0.135	0.432	0.378	0.378	0.324	120-125	0.101	74.72
130.0	0.108	0.108	0.162	0.189	0.486	0.432	0.432	0.378	125-130	0.115	74.83
135.0	0.162	0.162	0.216	0.216	0.486	0.486	0.432	0.405	130-135	0.121	74.96
140.0	0.216	0.216	0.270	0.243	0.540	0.486	0.486	0.432	135-140	0.125	75.08
145.0	0.216	0.216	0.270	0.297	0.540	0.540	0.540	0.486	140-145	0.123	75.20
150.0	0.270	0.270	0.324	0.351	0.594	0.540	0.540	0.486	145-150	0.119	75.32
155.0	0.270	0.324	0.324	0.405	0.594	0.540	0.594	0.540	150-155	0.110	75.43
160.0	0.324	0.378	0.378	0.405	0.594	0.567	0.594	0.540	155-160	0.097	75.53
165.0	0.378	0.432	0.432	0.459	0.594	0.594	0.594	0.567	160-165	0.081	75.61
170.0	0.432	0.459	0.486	0.513	0.540	0.594	0.594	0.594	165-170	0.061	75.67
175.0	0.486	0.486	0.540	0.540	0.540	0.540	0.594	0.594	170-175	0.038	75.71
180.0	0.540	0.540	0.540	0.540	0.540	0.540	0.540	0.540	175-180	0.013	75.72
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026年05月21日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.350 m
Remarks:

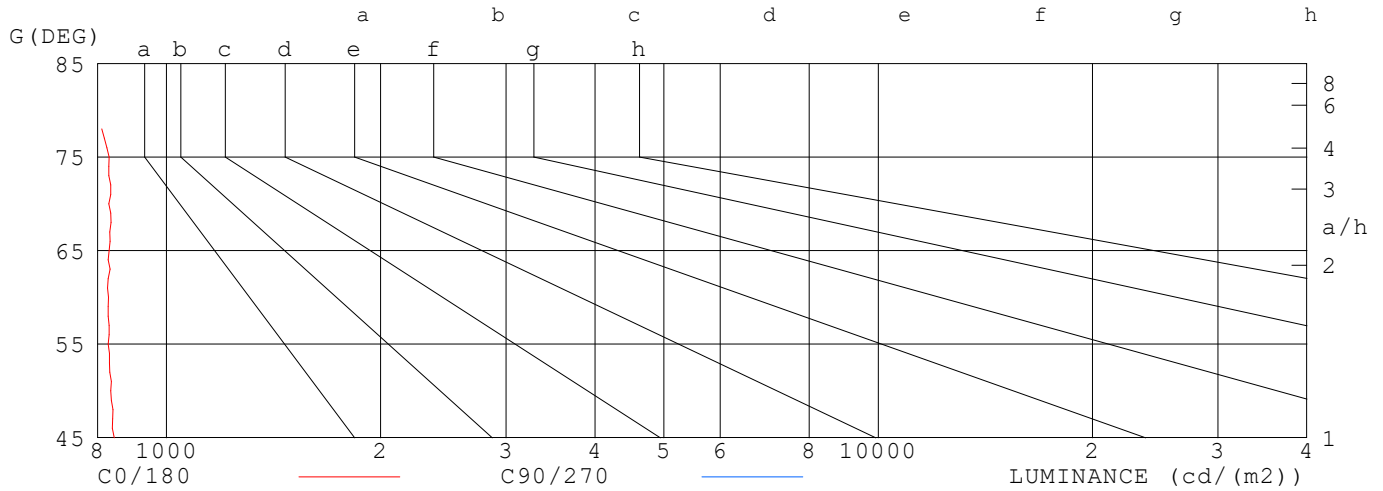
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME: 35139		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



LUMINANCE cd/m ²		
G (DEG)	C0/180	C90/270
85	513	375
80	783	594
75	831	651
70	830	659
65	830	676
60	829	695
55	828	708
50	835	728
45	844	752

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026年05月21日

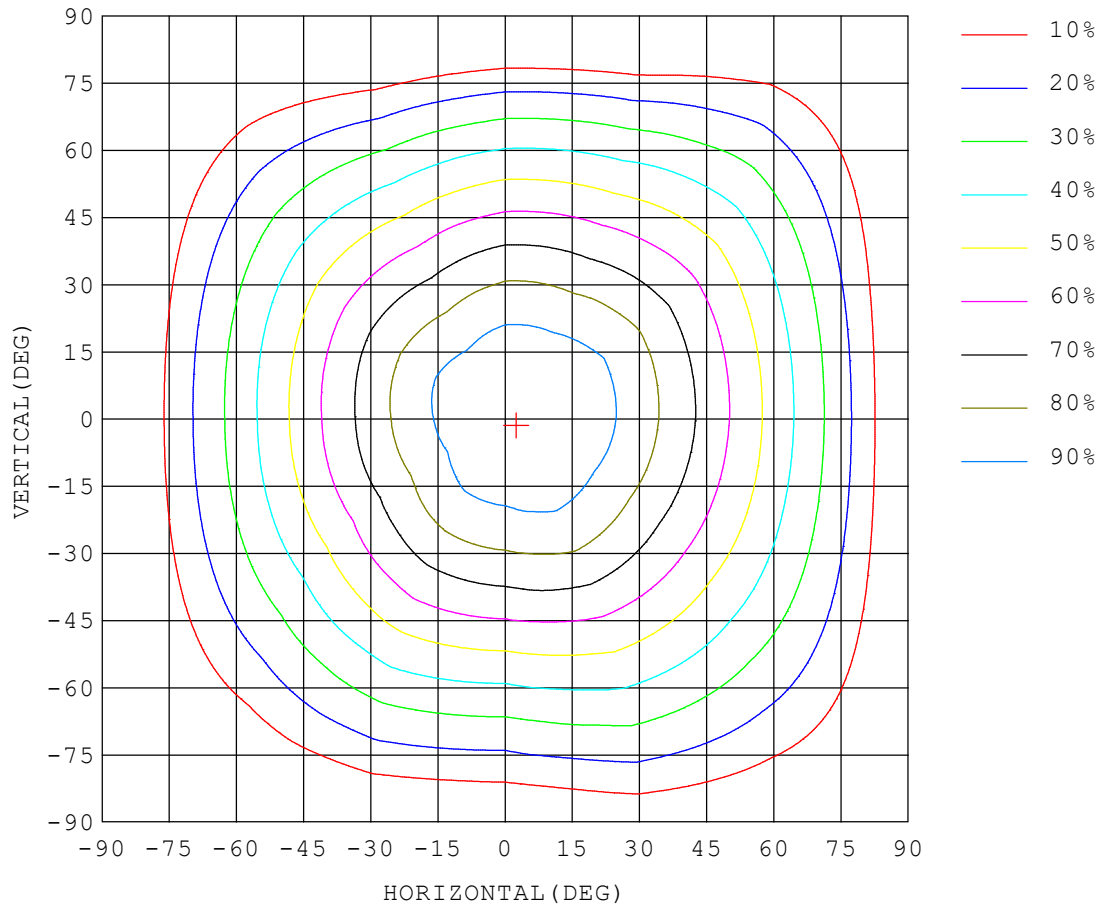
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.350 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 35139		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.:

UNIT: cd



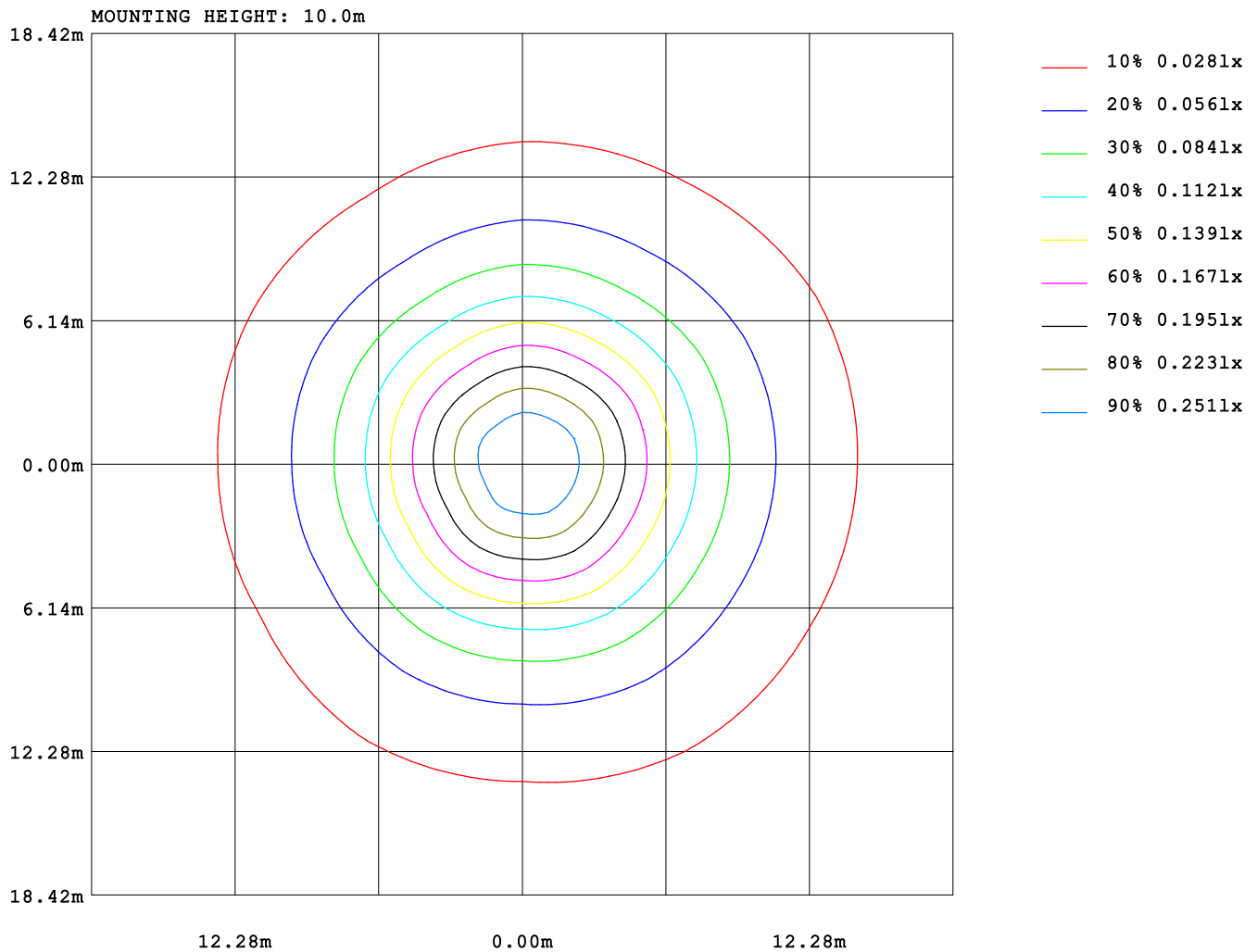
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026年05月21日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.350 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 35139		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.:



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026年05月21日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.350 m
Remarks:

UGR Table

Report number:

MANUFACTURER:											
Address:											
NAME: 35139					TYPE:			WEIGHT:			
SPECIFICATION:		CCT (K) : 0			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	12.4	13.9	12.7	14.1	14.3	12.0	13.4	12.3	13.7	13.9	
	3H	14.2	15.6	14.5	15.8	16.1	13.6	15.0	13.9	15.2	15.5
	4H	15.0	16.3	15.4	16.6	16.9	14.3	15.6	14.6	15.9	16.2
	6H	15.6	16.9	16.0	17.2	17.5	14.8	16.1	15.2	16.4	16.7
	8H	15.8	17.0	16.2	17.3	17.7	15.0	16.2	15.4	16.5	16.8
	12H	15.9	17.1	16.3	17.4	17.7	15.1	16.2	15.4	16.5	16.9
4H	2H	13.0	14.3	13.4	14.6	14.9	12.7	14.0	13.1	14.3	14.6
	3H	15.0	16.2	15.4	16.5	16.9	14.6	15.8	15.0	16.1	16.4
	4H	16.0	17.0	16.4	17.4	17.8	15.5	16.6	15.9	16.9	17.3
	6H	16.8	17.7	17.2	18.1	18.5	16.2	17.2	16.7	17.6	18.0
	8H	17.0	17.9	17.5	18.3	18.7	16.5	17.3	16.9	17.7	18.2
	12H	17.1	17.9	17.6	18.4	18.8	16.6	17.4	17.1	17.8	18.2
8H	4H	16.4	17.2	16.8	17.6	18.0	16.0	16.8	16.4	17.2	17.7
	6H	17.3	18.0	17.8	18.4	18.9	17.0	17.7	17.4	18.1	18.6
	8H	17.6	18.3	18.1	18.7	19.2	17.3	18.0	17.8	18.4	18.9
	12H	17.8	18.4	18.4	18.9	19.4	17.6	18.1	18.1	18.6	19.1
12H	4H	16.4	17.2	16.9	17.6	18.1	16.0	16.8	16.5	17.2	17.7
	6H	17.4	18.0	17.9	18.5	19.0	17.1	17.7	17.6	18.2	18.7
	8H	17.8	18.3	18.3	18.8	19.3	17.5	18.1	18.0	18.6	19.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2					
1.5H	+ 0.1 / - 0.3					+ 0.2 / - 0.4					
2.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.4					

CIE Pub.117 Corrected 75.72 lm Total Lamp Luminous Flux.(8log(F/F0) = -9.0)

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026年05月21日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.350 m
Remarks:

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:										
Address:										
NAME: 35139					TYPE:			WEIGHT:		
SPECIFICATION:			CCT (K) : 0		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) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	33
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	64	57	72	66	57	50
1.25	83	73	66	81	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	75	69	62
2.00	95	86	80	93	85	79	89	83	77	69
2.50	99	91	85	97	90	84	92	87	82	73
3.00	102	95	90	100	94	89	95	90	86	77
4.00	106	100	96	104	99	94	99	95	91	82
5.00	108	104	100	106	102	98	101	98	95	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004					Suspended			SHRNOM = 1.25		

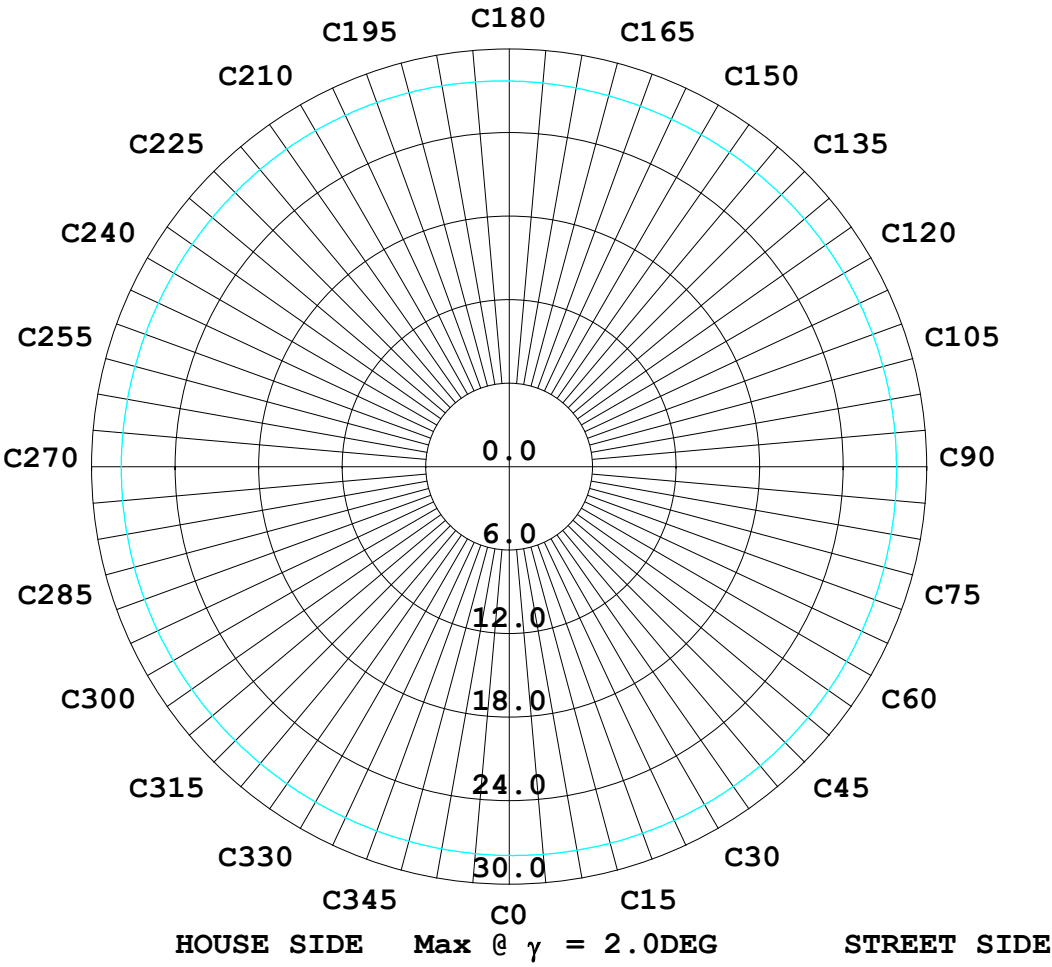
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026年05月21日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.350 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 35139		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.:



Test System:HOPPO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2026年05月21日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:7.350 m
Remarks: