

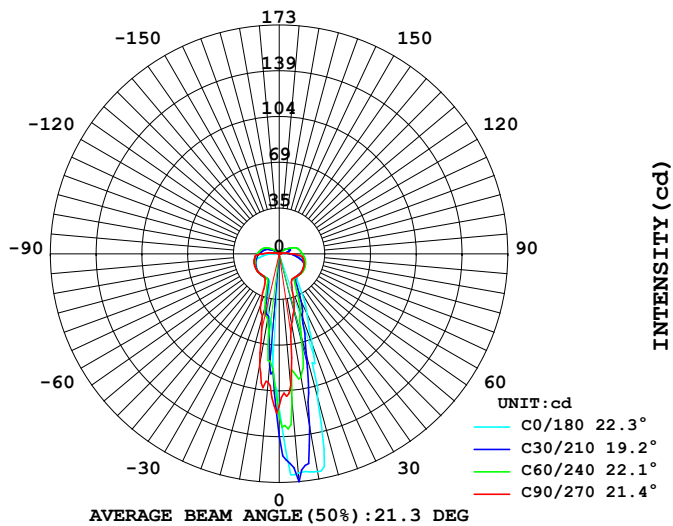
## LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

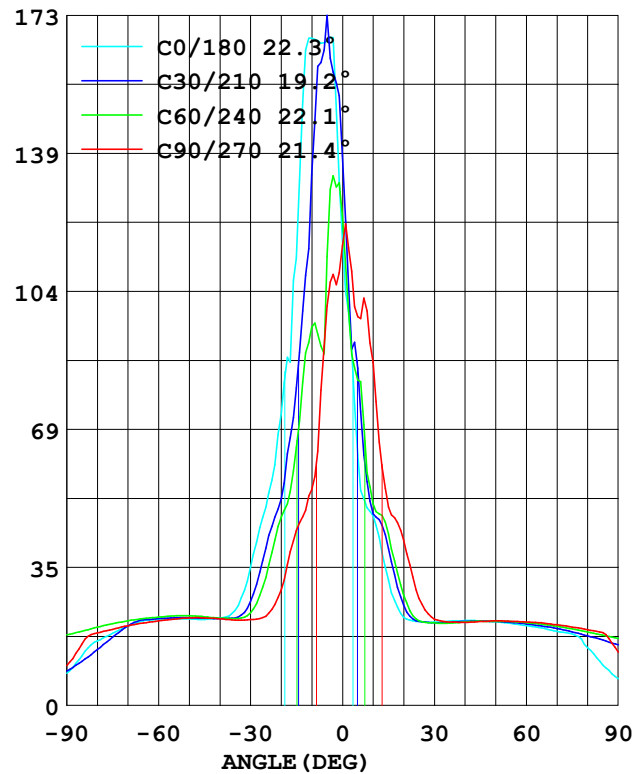
MANUFACTURER:			
Address:			
NAME: E11010		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.: MB2045-1B

DATA OF LAMP		Imax(cd)	176.1	S/MH (C0/180)	0.74
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	0.30
NOMINAL POWER(W)	7	TOTAL FLUX(lm)	184.35	Voltage(V)	122.8
RATED VOLTAGE (V)	122	EFFICIENCY (lm/W)	28.3	Current(A)	0.054
NOMINAL FLUX(lm)	184.4	$\eta$ up (%)	19.5	Power(W)	6.520
LAMPS QUANTITY	1	$\eta$ down (%)	80.5	Power Factor (PF)	0.974
TEST VOLTAGE (V)	122.8	Effective Flux(lm)	136.8	EEL	0.384

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



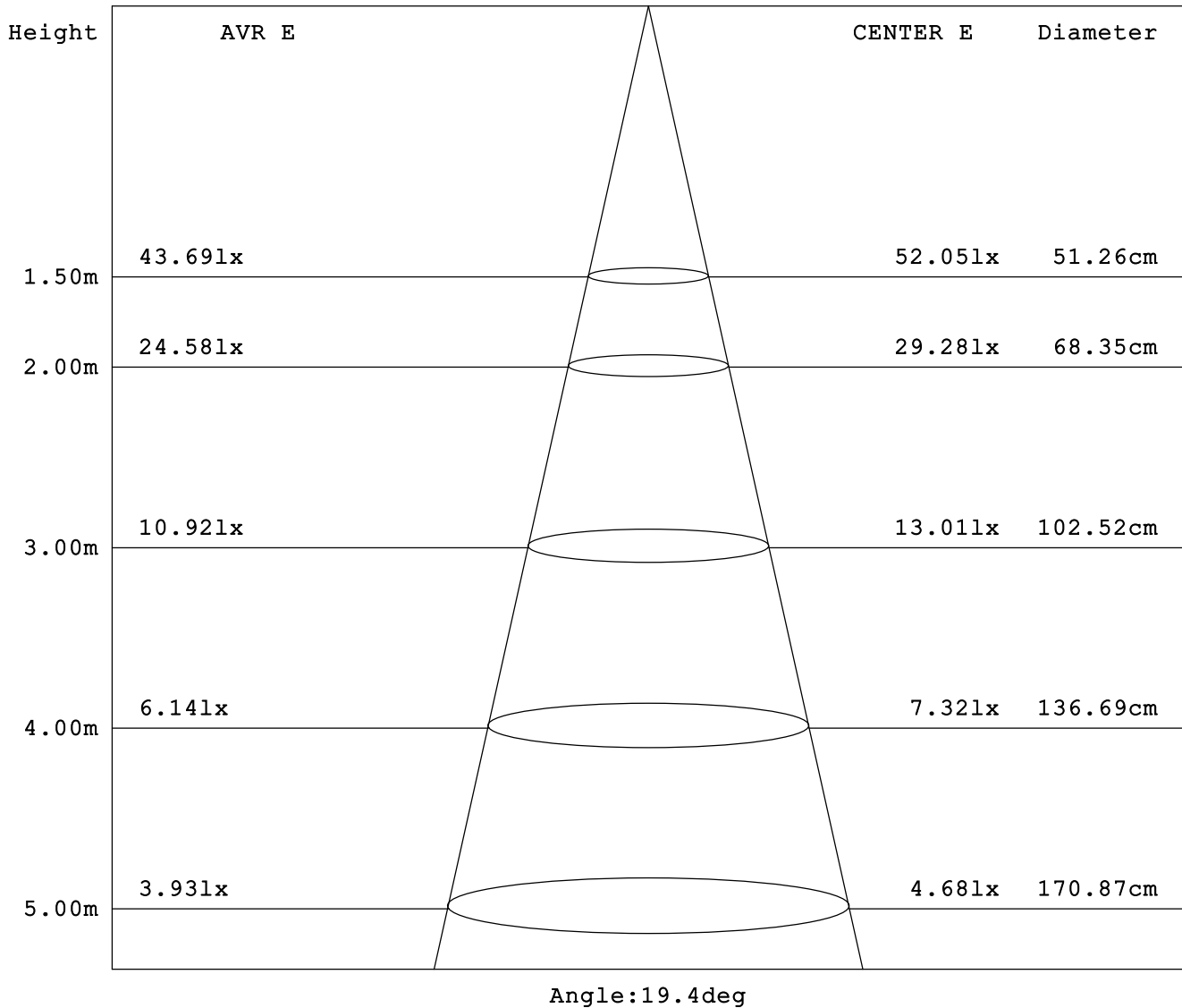
Test System: HOPOO HPG1800  
Temperature: 25.3 DEG  
Operators:  
Test Date: 2026年06月04日

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: E11010		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.: MB2045-1B



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2026年06月04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: E11010		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.: MB2045-1B

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	Zone	total
5.0	166.8	142.9	100.2	68.33	62.77	83.16	97.61	141.9	0- 5	2.706	2.706
10.0	167.4	114.1	54.13	47.70	47.64	49.32	86.11	132.9	5- 10	6.796	9.502
15.0	112.3	72.20	43.92	33.46	31.44	41.19	49.75	117.7	10- 15	9.083	18.58
20.0	73.25	49.56	29.01	23.41	22.14	26.52	41.59	64.58	15- 20	8.362	26.94
25.0	49.75	35.78	22.36	21.01	21.06	21.17	26.90	44.29	20- 25	7.374	34.32
30.0	34.73	24.68	21.60	20.82	20.90	20.74	21.66	30.52	25- 30	6.871	41.19
35.0	23.93	21.90	21.44	21.01	21.17	20.74	20.96	22.87	30- 35	6.679	47.87
40.0	21.93	21.87	21.77	21.25	21.33	21.01	20.85	21.14	35- 40	7.158	55.03
45.0	21.60	22.06	21.98	21.28	21.28	21.17	21.06	21.06	40- 45	7.926	62.95
50.0	21.71	22.28	21.98	21.12	21.01	21.09	21.23	21.31	45- 50	8.669	71.62
55.0	21.77	22.23	21.66	20.77	20.58	20.96	21.12	21.50	50- 55	9.316	80.94
60.0	21.60	22.01	21.23	20.33	20.04	20.63	20.96	21.47	55- 60	9.807	90.75
65.0	21.28	21.66	20.69	19.74	19.44	20.20	20.74	21.33	60- 65	10.14	100.8
70.0	19.88	20.58	19.98	18.96	18.63	19.61	20.25	21.04	65- 70	10.29	111.1
75.0	18.15	18.85	19.12	18.15	17.93	18.85	19.66	20.55	70- 75	10.17	121.3
80.0	16.20	16.82	18.20	17.28	14.47	17.98	19.01	19.85	75- 80	9.815	131.1
85.0	12.42	14.82	15.39	16.55	10.10	17.04	18.25	19.04	80- 85	9.173	140.3
90.0	8.103	13.18	9.994	15.82	6.698	16.01	13.34	18.15	85- 90	8.108	148.4
95.0	5.294	11.72	6.050	14.58	3.889	14.93	8.589	17.26	90- 95	6.944	155.4
100.0	2.917	10.72	3.241	12.29	1.998	13.85	5.186	16.31	95-100	5.886	161.2
105.0	1.674	11.10	1.782	9.940	0.972	12.77	3.133	15.42	100-105	5.011	166.3
110.0	0.702	11.39	0.648	7.833	0.486	11.39	1.944	14.47	105-110	4.362	170.6
115.0	0.432	9.588	0.648	6.104	0.324	9.399	1.026	13.47	110-115	3.658	174.3
120.0	0.270	8.346	0.594	4.645	0.216	7.347	0.918	12.07	115-120	2.974	177.3
125.0	0.324	6.563	0.648	3.349	0.216	5.402	0.918	9.994	120-125	2.296	179.6
130.0	0.378	4.916	0.594	2.322	0.216	3.808	0.864	7.590	125-130	1.669	181.2
135.0	0.324	3.457	0.540	1.593	0.216	2.620	0.810	5.564	130-135	1.130	182.4
140.0	0.324	2.431	0.486	1.026	0.324	1.728	0.702	3.916	135-140	0.743	183.1
145.0	0.324	1.485	0.486	0.702	0.378	1.107	0.702	2.620	140-145	0.466	183.6
150.0	0.270	0.702	0.432	0.540	0.432	0.810	0.648	1.728	145-150	0.282	183.8
155.0	0.216	0.567	0.432	0.459	0.486	0.675	0.648	1.161	150-155	0.175	184.0
160.0	0.270	0.459	0.432	0.351	0.432	0.594	0.648	0.891	155-160	0.123	184.1
165.0	0.270	0.405	0.270	0.297	0.378	0.432	0.594	0.729	160-165	0.080	184.2
170.0	0.270	0.297	0.270	0.297	0.324	0.378	0.540	0.594	165-170	0.049	184.3
175.0	0.216	0.270	0.270	0.351	0.270	0.324	0.432	0.432	170-175	0.025	184.3
180.0	0.270	0.324	0.324	0.351	0.270	0.324	0.324	0.351	175-180	0.008	184.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2026年06月04日

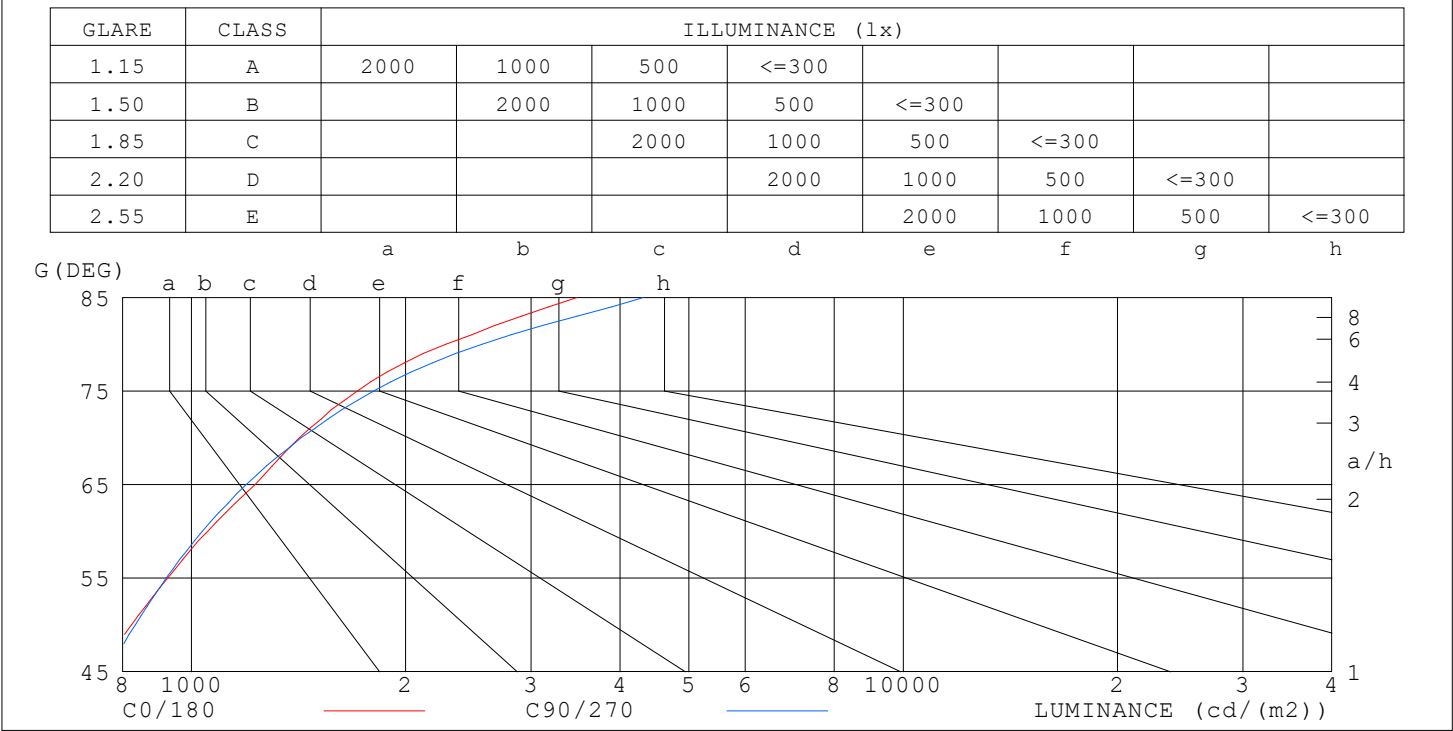
Test Set: 8.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:7.350 m  
Remarks:

LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME: E11010		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.: MB2045-1B

LUMINANCE LIMITATION CURVES



LUMINANCE cd/m2		
G (DEG)	C0/180	C90/270
85	3477	4309
80	2276	2557
75	1711	1802
70	1418	1425
65	1228	1194
60	1054	1036
55	926	921
50	824	834
45	745	758

Test System:HOPPO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2026年06月04日

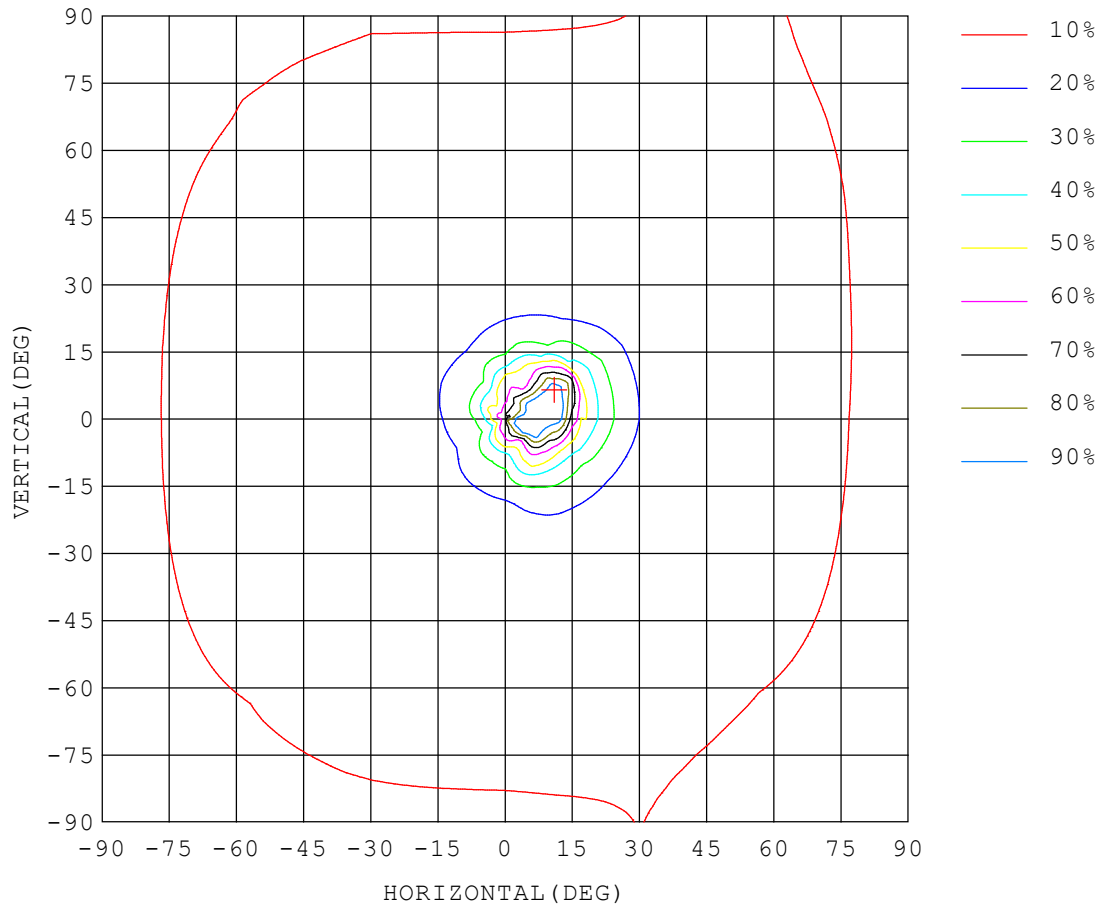
Test Set: 8.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:7.350 m  
Remarks:

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: E11010		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.: MB2045-1B

UNIT: cd



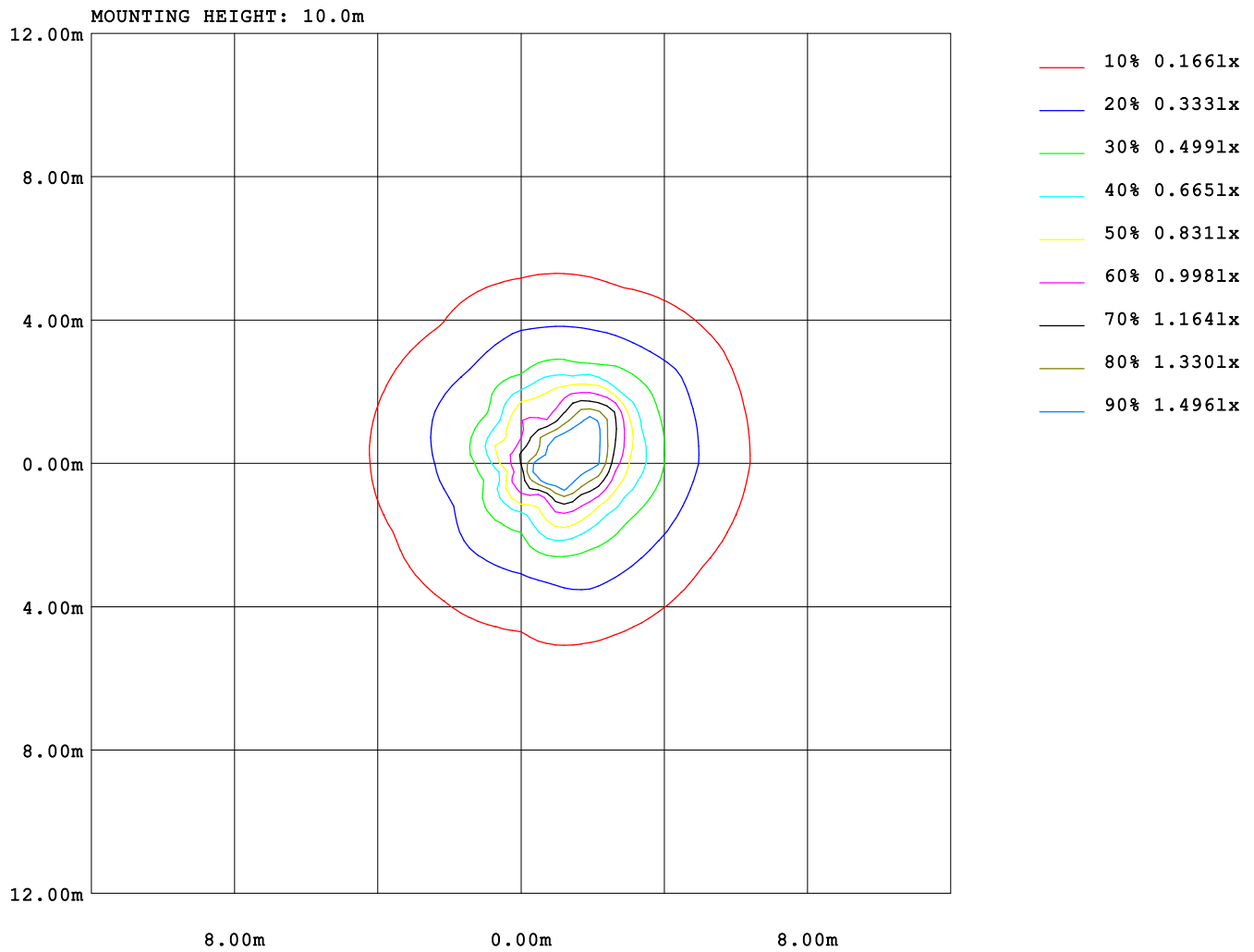
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2026年06月04日

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: E11010		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.: MB2045-1B



Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2026年06月04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: E11010					TYPE:			WEIGHT:			
SPECIFICATION:		CCT (K) : 0			DIMENSION:			SERIAL No.: MB2045-1B			
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	11.2	12.5	11.7	13.0	13.6	11.2	12.5	11.7	13.1	13.6	
3H	14.1	15.3	14.7	15.9	16.5	14.2	15.4	14.7	16.0	16.6	
4H	15.6	16.7	16.1	17.3	18.0	15.8	17.0	16.4	17.6	18.2	
6H	17.1	18.2	17.7	18.8	19.5	17.6	18.7	18.2	19.3	20.0	
8H	17.9	18.9	18.5	19.6	20.2	18.6	19.6	19.2	20.3	20.9	
12H	18.7	19.7	19.3	20.3	21.0	19.6	20.6	20.2	21.2	22.0	
4H	2H	12.2	13.4	12.8	14.0	14.6	12.2	13.4	12.8	14.0	14.6
	3H	15.2	16.3	15.9	16.9	17.6	15.4	16.4	16.0	17.0	17.8
	4H	16.8	17.7	17.4	18.4	19.1	17.2	18.1	17.8	18.8	19.5
	6H	18.4	19.3	19.1	19.9	20.7	19.1	20.0	19.8	20.6	21.4
	8H	19.3	20.1	19.9	20.8	21.5	20.2	21.0	20.9	21.7	22.5
	12H	20.1	20.9	20.8	21.6	22.4	21.3	22.1	22.0	22.8	23.6
8H	4H	17.4	18.2	18.1	18.9	19.7	17.8	18.6	18.5	19.3	20.1
	6H	19.2	19.9	19.9	20.6	21.5	20.1	20.8	20.8	21.5	22.3
	8H	20.2	20.8	20.9	21.6	22.4	21.4	22.0	22.1	22.7	23.6
	12H	21.3	21.8	22.0	22.6	23.4	22.7	23.3	23.5	24.0	24.9
	12H	4H	17.6	18.4	18.3	19.1	19.9	17.9	18.6	18.6	19.3
6H	19.5	20.2	20.3	20.9	21.7	20.3	20.9	21.0	21.6	22.5	
8H	20.6	21.2	21.3	21.9	22.8	21.7	22.3	22.4	23.0	23.9	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3					
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4					

CIE Pub.117 Corrected 184.3 lm Total Lamp Luminous Flux. (8log(F/F0) = -5.9)

Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2026年06月04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: E11010		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.: MB2045-1B

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) $k(RI) \times RCR = 5$									
$k = 0.60$	49	37	29	48	36	29	46	35	29	22
0.80	57	44	36	56	44	36	53	42	35	28
1.00	64	51	43	62	50	42	59	51	41	32
1.25	71	58	49	68	56	48	64	54	47	37
1.50	76	63	54	73	61	53	68	58	51	41
2.00	83	71	62	79	69	61	74	65	58	46
2.50	87	76	68	84	74	66	77	69	63	50
3.00	91	81	73	87	78	71	80	73	67	53
4.00	96	87	80	92	84	78	84	78	73	58
5.00	99	91	85	94	88	82	87	82	77	61
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

Test System: HOPOO HPG1800  
 Temperature: 25.3 DEG  
 Operators:  
 Test Date: 2026年06月04日

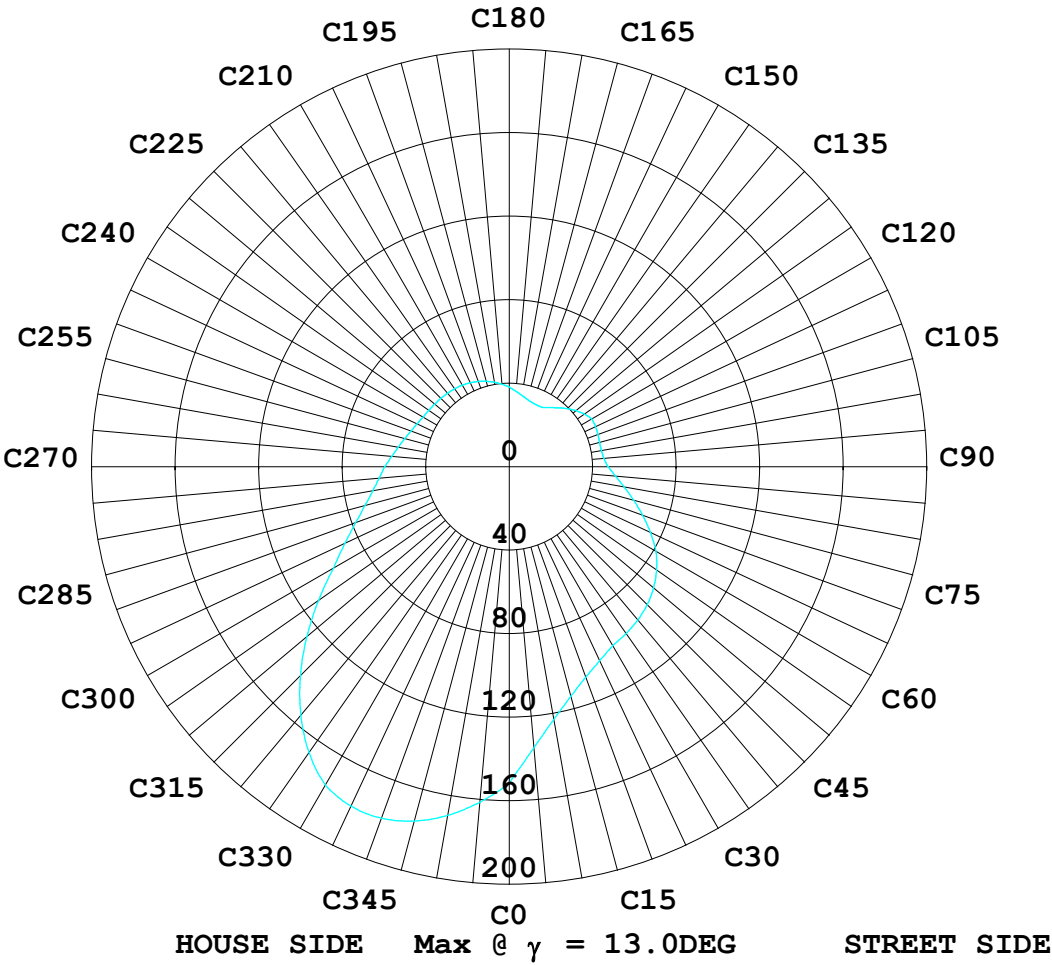
Test Set: 8.0 deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 7.350 m  
 Remarks:



ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: E11010		TYPE:	WEIGHT:
SPECIFICATION:	CCT (K) : 0	DIMENSION:	SERIAL No.: MB2045-1B



Test System:HOPPO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2026年06月04日

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