

LUMINAIRE PHOTOMETRIC TEST REPORT

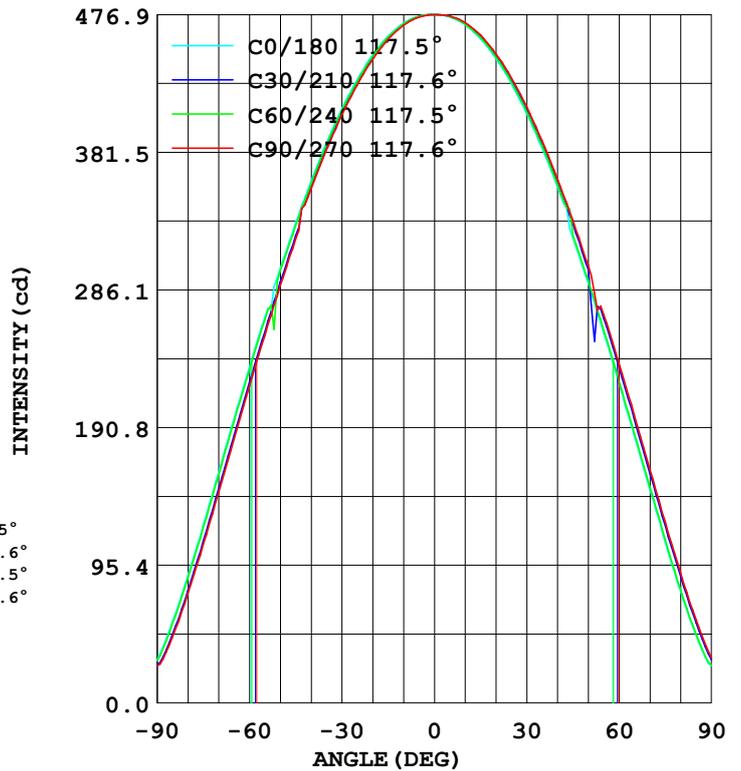
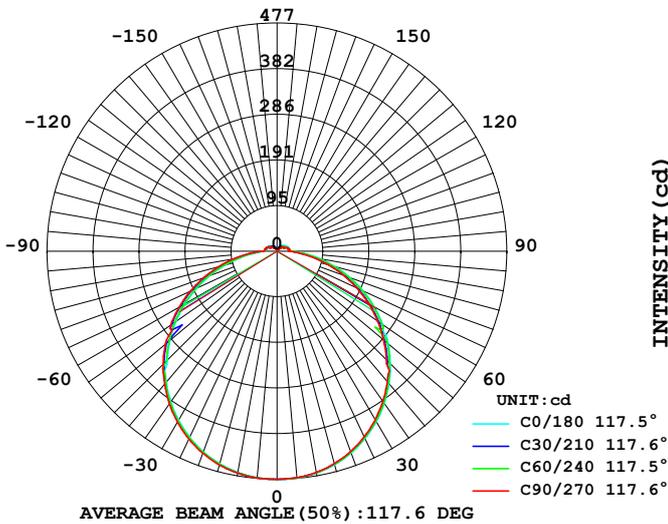
Report number :

MANUFACTURER :		
Address :		
NAME: 0028920231 12W 3000K 1500lm	TYPE :	WEIGHT :
SPECIFICATION :	DIMENSION: 0.22*0.052	SERIAL No. :

DATA OF LAMP		Imax (cd)	477.1	S/MH (C0/180)	1.28
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.27
NOMINAL POWER (W)	12	TOTAL FLUX (lm)	1500.0	Voltage (V)	229.6
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	125.0	Current (A)	0.055
NOMINAL FLUX (lm)	1585.1	η up (%)	7.1	Power (W)	12.0
LAMPS QUANTITY	1	η down (%)	92.9	Power Factor (PF)	0.958
TEST VOLTAGE (V)	229.7	Effective Flux (lm)	1455.5	EEL	0.000 (E)

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



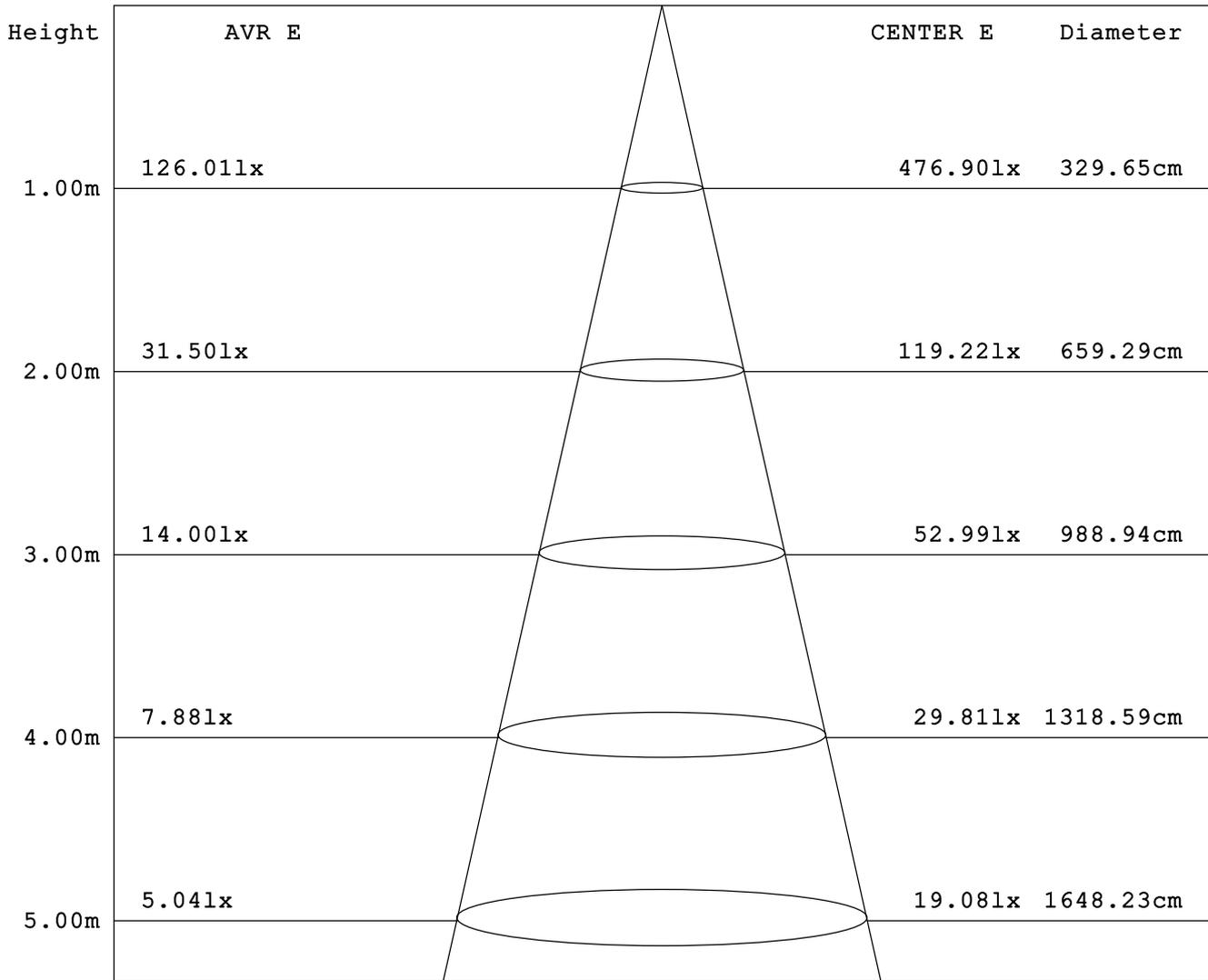
Test System: HopooColor HPG1800
 Temperature: 25.3 DEG
 Operators: W
 Test Date: 2024年07月13日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.450 m
 Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920231 12W 3000K 1500lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.22*0.052	SERIAL No.:



Angle:117.5deg

Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:W
 Test Date:2024年07月13日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.450 m
 Remarks:

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920231 12W 3000K 1500lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.22*0.052	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	475.7	475.5	475.1	475.2	475.1	475.5	475.9	476.1	0- 5	11.38	11.38
10.0	470.8	470.1	469.3	469.4	469.8	470.4	471.2	471.3	5- 10	33.84	45.23
15.0	461.9	460.9	459.6	459.8	460.0	461.2	462.7	462.5	10- 15	55.25	100.4
20.0	448.8	447.4	445.7	446.0	446.6	448.0	449.9	449.8	15- 20	74.90	175.3
25.0	431.8	430.1	428.1	428.3	429.2	430.8	433.1	433.0	20- 25	92.14	267.5
30.0	411.8	409.8	407.4	407.7	408.2	410.4	413.2	412.9	25- 30	106.4	373.9
35.0	388.1	385.8	383.1	383.4	384.5	386.7	389.7	389.4	30- 35	117.2	491.2
40.0	361.3	358.8	355.9	356.1	357.2	359.7	363.0	362.8	35- 40	124.4	615.6
45.0	332.7	327.2	321.3	324.3	321.9	327.8	334.3	331.1	40- 45	127.6	743.2
50.0	300.8	295.2	288.9	292.0	290.4	296.3	302.8	299.7	45- 50	125.9	869.2
55.0	267.4	261.5	254.7	258.2	256.2	262.5	269.4	266.0	50- 55	120.1	989.3
60.0	233.1	226.8	219.8	223.5	220.8	227.6	235.3	231.3	55- 60	113.1	1102
65.0	196.9	190.3	182.9	186.8	184.6	191.3	198.9	195.1	60- 65	101.6	1204
70.0	159.7	153.1	145.8	149.7	147.7	154.2	161.7	158.1	65- 70	87.29	1291
75.0	123.7	117.0	110.0	114.0	111.2	117.8	125.5	121.5	70- 75	70.92	1362
80.0	88.25	82.11	75.75	79.50	77.11	83.00	89.96	86.57	75- 80	53.45	1416
85.0	56.62	51.12	45.48	49.01	46.62	51.55	57.55	54.65	80- 85	36.30	1452
90.0	30.13	27.56	25.70	26.91	25.77	27.91	31.27	29.73	85- 90	21.16	1473
95.0	26.63	25.77	24.99	25.52	25.06	25.81	26.70	26.45	90- 95	14.52	1488
100.0	25.63	24.81	24.20	24.63	24.20	24.81	25.63	25.41	95-100	13.80	1502
105.0	24.56	23.84	23.27	23.66	23.27	23.81	24.56	24.41	100-105	13.07	1515
110.0	23.49	22.63	22.27	22.38	22.27	22.56	23.42	23.09	105-110	12.21	1527
115.0	22.34	20.99	15.20	20.81	21.20	20.88	17.27	21.42	110-115	10.98	1538
120.0	21.06	19.17	16.20	19.06	19.92	18.99	16.35	19.52	115-120	9.509	1547
125.0	19.63	17.13	14.28	17.10	18.56	16.92	14.99	17.42	120-125	8.327	1556
130.0	18.13	15.13	12.06	15.13	17.06	14.88	13.28	15.31	125-130	7.014	1563
135.0	16.49	13.20	9.639	13.31	15.56	13.10	10.56	13.42	130-135	5.717	1568
140.0	14.85	11.60	8.354	11.78	13.92	11.60	8.925	11.81	135-140	4.596	1573
145.0	13.13	10.24	7.354	10.42	12.35	10.28	7.925	10.42	140-145	3.662	1577
150.0	11.42	8.889	6.140	9.139	10.78	9.068	7.140	9.103	145-150	2.846	1580
155.0	9.710	7.497	5.069	7.747	9.210	7.747	5.283	7.747	150-155	2.089	1582
160.0	8.139	6.354	4.641	6.676	7.711	6.676	4.926	6.569	155-160	1.480	1583
165.0	6.569	5.355	4.426	5.605	6.283	5.712	4.498	5.533	160-165	0.991	1584
170.0	5.140	4.391	3.927	4.676	5.069	4.783	4.069	4.534	165-170	0.602	1585
175.0	4.069	3.784	3.784	3.962	4.069	4.069	3.784	3.855	170-175	0.305	1585
180.0	3.855	3.784	3.712	3.820	3.784	3.820	3.784	3.784	175-180	0.092	1585
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:W
 Test Date:2024年07月13日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.450 m
 Remarks:

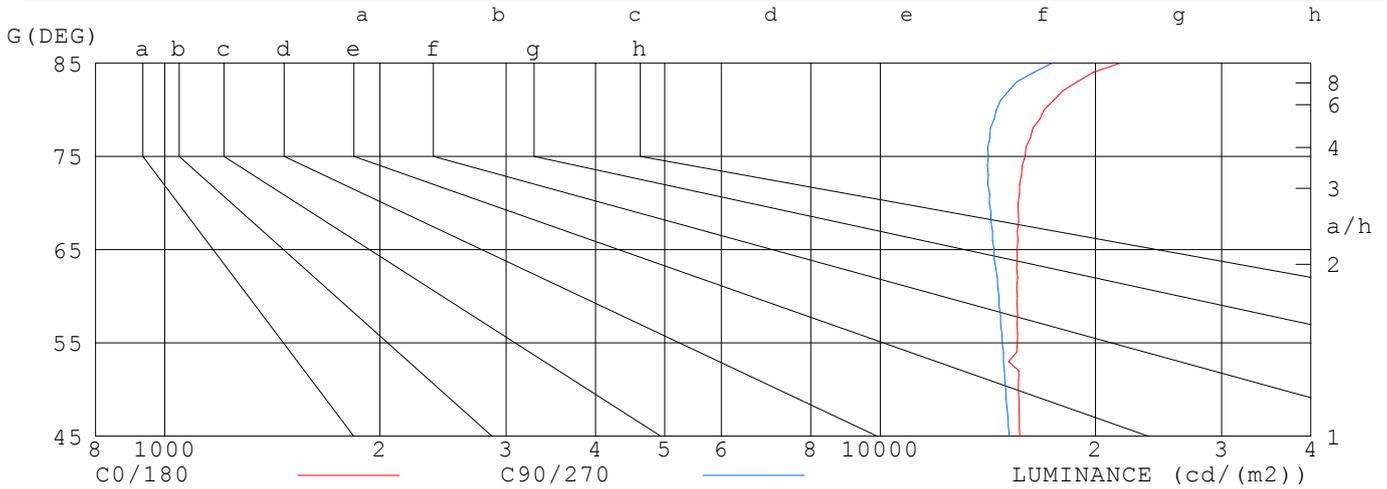
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920231 12W 3000K 1500lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.22*0.052	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



G (DEG)	LUMINANCE cd/m2	
	C0/180	C90/270
85	21656	17395
80	16941	14542
75	15937	14171
70	15574	14210
65	15538	14429
60	15542	14657
55	15544	14806
50	15600	14985
45	15685	15150

Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:W
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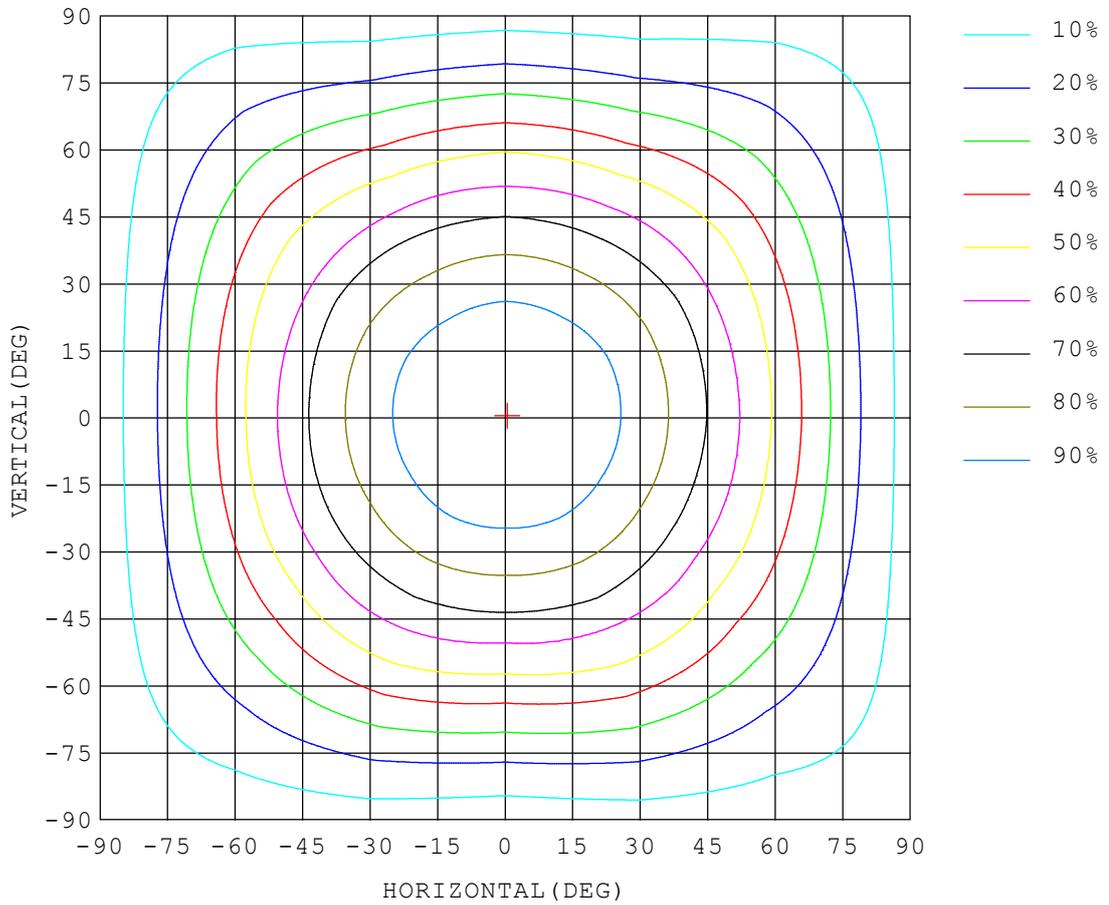
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.450 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920231 12W 3000K 1500lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.22*0.052	SERIAL No.:

UNIT: cd



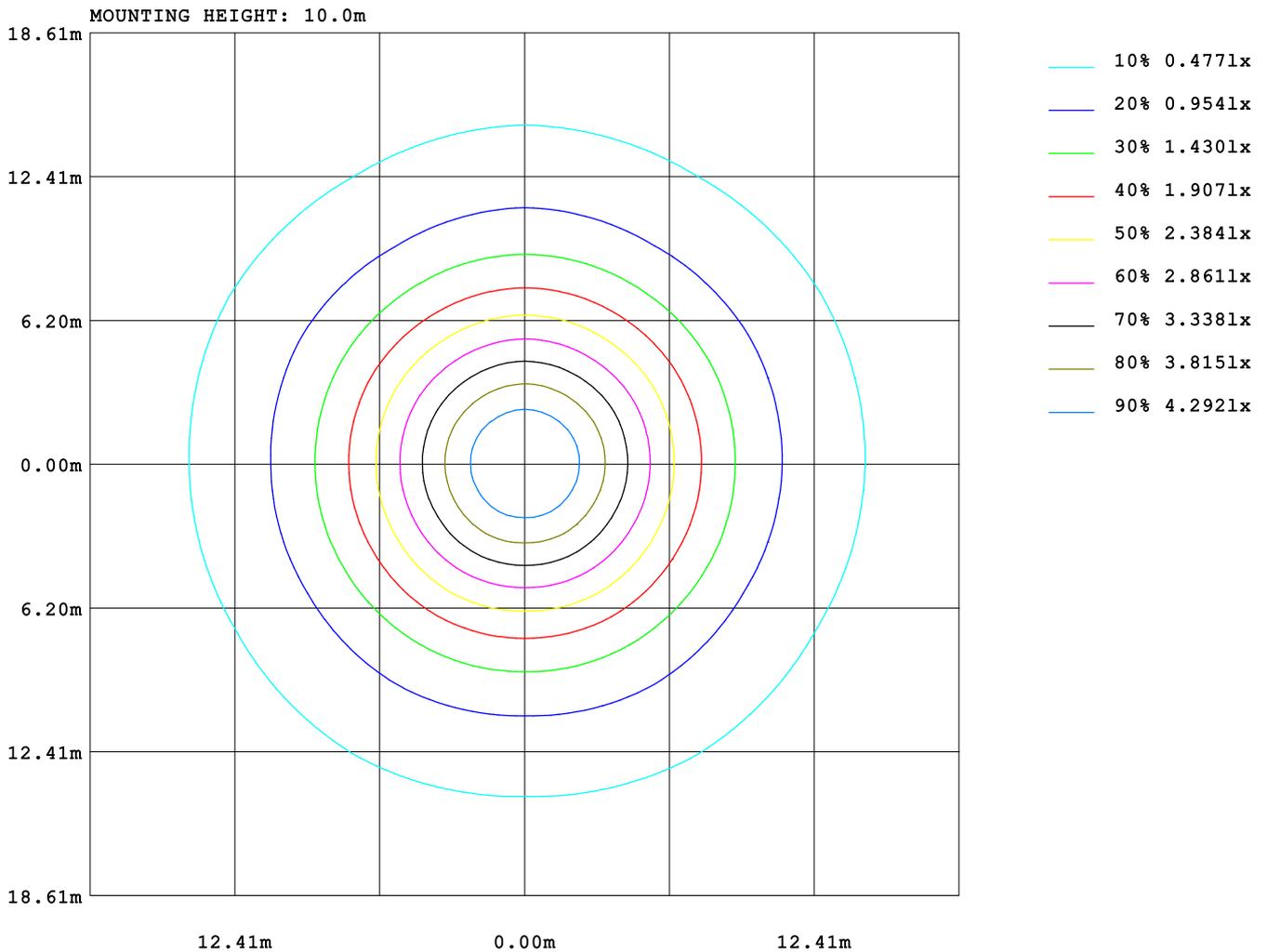
Test System: HopooColor HPG1800
 Temperature: 25.3 DEG
 Operators: W
 Test Date: 2024年07月13日

Test Set: 5.0 deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.450 m
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920231 12W 3000K 1500lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.22*0.052	SERIAL No.:



Test System: HopooColor HPG1800
 Temperature: 25.3DEG
 Operators: W
 Test Date: 2024年07月13日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.450 m
 Remarks:

AREA LUMINOUS FLUX

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920231 12W 3000K 1500lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.22*0.052	SERIAL No.:

		AREA FLUX DIAGRAM																	UNIT:lm		Φ t	Φ a	
VERTICAL (DEG)	90	0.07	0.26	0.50	0.75	0.95	1.12	1.32	1.55	1.72	1.73	1.58	1.36	1.18	1.01	0.81	0.55	0.30	0.09	16.8	9.90		
	80	0.09	0.36	0.80	1.34	1.87	2.38	2.89	3.39	3.72	3.73	3.43	2.95	2.45	1.95	1.41	0.87	0.41	0.10	34.1	33.6		
	70	0.10	0.47	1.13	2.00	2.93	3.83	4.67	5.44	5.92	5.94	5.48	4.74	3.92	3.01	2.08	1.20	0.53	0.12	53.5	53.3		
	60	0.11	0.58	1.45	2.66	3.98	5.27	6.42	7.41	8.01	8.02	7.46	6.50	5.36	4.07	2.75	1.54	0.65	0.13	72.4	72.3		
	50	0.12	0.69	1.76	3.26	4.96	6.54	8.02	9.28	10.0	10.0	9.32	8.11	6.65	5.05	3.36	1.85	0.76	0.15	89.9	89.9		
	40	0.13	0.78	2.01	3.76	5.67	7.69	9.56	10.9	11.6	11.7	10.9	9.64	7.83	5.81	3.88	2.12	0.85	0.16	105	105		
	30	0.14	0.85	2.21	4.14	6.27	8.68	10.6	12.1	13.0	13.0	12.2	10.7	8.77	6.46	4.27	2.34	0.93	0.17	117	117		
		0.15	0.89	2.34	4.36	6.75	9.26	11.4	13.0	13.8	13.9	13.0	11.5	9.35	6.92	4.51	2.48	0.98	0.17	125	125		
		0.15	0.91	2.39	4.47	6.97	9.54	11.7	13.4	14.3	14.3	13.5	11.8	9.63	7.13	4.65	2.55	1.00	0.18	129	129		
		0.15	0.91	2.38	4.46	6.94	9.51	11.7	13.4	14.3	14.3	13.4	11.8	9.60	7.09	4.63	2.53	1.00	0.18	128	128		
		0.15	0.88	2.30	4.30	6.66	9.17	11.3	12.9	13.8	13.8	13.0	11.3	9.25	6.81	4.45	2.43	0.96	0.17	124	124		
	-30	0.14	0.82	2.14	4.00	6.17	8.51	10.5	12.1	12.9	12.9	12.1	10.6	8.59	6.29	4.13	2.26	0.90	0.16	115	115		
	-40	0.13	0.74	1.92	3.57	5.52	7.57	9.48	10.8	11.5	11.5	10.8	9.55	7.65	5.61	3.69	2.02	0.82	0.15	103	103		
	-50	0.12	0.65	1.64	3.04	4.73	6.48	8.06	9.21	9.76	9.78	9.24	8.08	6.54	4.81	3.13	1.73	0.72	0.14	87.9	87.8		
	-60	0.11	0.54	1.33	2.43	3.80	5.24	6.52	7.33	7.71	7.72	7.35	6.59	5.32	3.88	2.51	1.41	0.60	0.13	70.5	70.4		
	-70	0.09	0.43	1.00	1.80	2.80	3.85	4.77	5.32	5.56	5.57	5.36	4.83	3.92	2.87	1.86	1.06	0.48	0.11	51.7	51.4		
	-80	0.08	0.32	0.68	1.17	1.79	2.44	2.97	3.26	3.37	3.38	3.30	3.02	2.50	1.84	1.22	0.73	0.36	0.10	32.5	31.6		
	-90	0.07	0.23	0.41	0.63	0.90	1.18	1.38	1.45	1.45	1.46	1.47	1.41	1.22	0.94	0.67	0.44	0.26	0.08	15.6	8.06		
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90		
Φ t		2.11	11.2	28.4	52.2	79.7	108	134	153	163	163	153	135	110	81.6	54.0	30.2	12.4	2.49	1585			
Φ a		1.08	10.2	27.4	51.2	78.7	107	133	152	162	162	152	134	109	80.7	53.1	29.3	11.6	1.66		1455		

Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:W
 Test Date:2024年07月13日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.450 m
 Remarks:

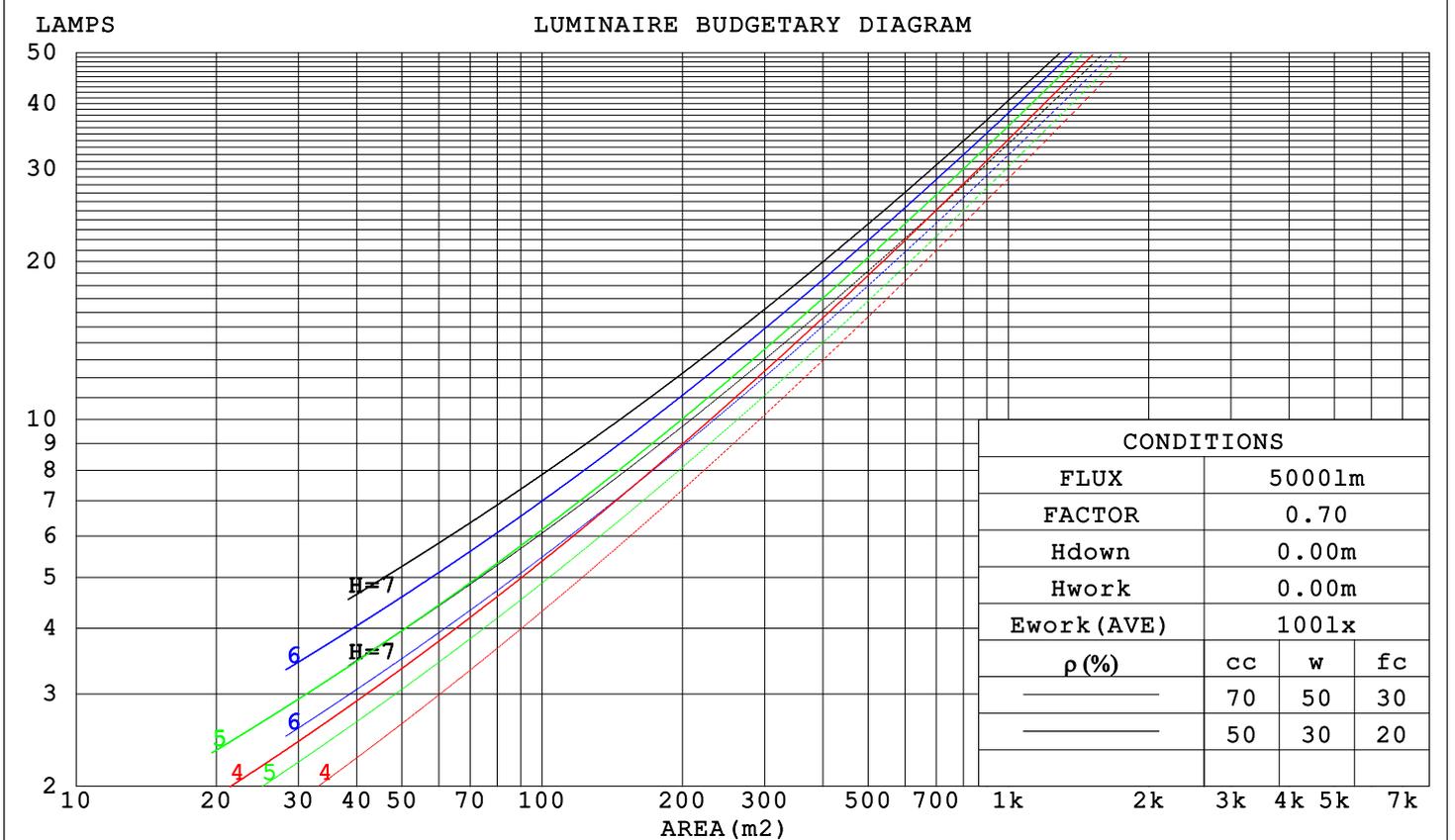


CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: 0028920231 12W 3000K 1500lm								TYPE:				WEIGHT:			
SPECIFICATION:								DIMENSION: 0.22*0.052				SERIAL No.:			

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.96	.96	.96	.93
1.0	1.01	.96	.92	.98	.94	.90	.92	.89	.86	.87	.84	.82	.83	.80	.78	.76
2.0	.87	.80	.74	.85	.78	.73	.80	.75	.70	.76	.71	.67	.72	.68	.65	.62
3.0	.76	.68	.61	.74	.66	.60	.70	.64	.58	.66	.61	.56	.63	.58	.54	.52
4.0	.67	.58	.51	.66	.57	.51	.62	.55	.49	.59	.53	.48	.56	.51	.46	.44
5.0	.60	.51	.44	.59	.50	.44	.56	.48	.42	.53	.46	.41	.50	.45	.40	.38
6.0	.54	.45	.38	.53	.44	.38	.50	.43	.37	.48	.41	.36	.46	.40	.35	.33
7.0	.49	.40	.34	.48	.39	.33	.45	.38	.33	.43	.37	.32	.42	.36	.31	.29
8.0	.44	.36	.30	.43	.35	.30	.42	.34	.29	.40	.33	.28	.38	.32	.28	.26
9.0	.41	.32	.27	.40	.32	.27	.38	.31	.26	.37	.30	.26	.35	.29	.25	.23
10.0	.38	.30	.24	.37	.29	.24	.35	.28	.24	.34	.28	.23	.33	.27	.23	.21



Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:W
 Test Date:2024年07月13日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.450 m
 Remarks:



HOPOO GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:																
Address:																
NAME: 0028920231 12W 3000K 1500lm										TYPE:			WEIGHT:			
SPECIFICATION:										DIMENSION: 0.22*0.052			SERIAL No.:			

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.334	.190	.060	.325	.185	.059	.307	.176	.056	.291	.168	.054	.276	.160	.052		
2.0	.305	.167	.051	.297	.163	.050	.281	.156	.049	.267	.150	.047	.254	.143	.045		
3.0	.278	.148	.044	.271	.145	.044	.257	.139	.042	.244	.134	.041	.232	.128	.040		
4.0	.255	.132	.039	.248	.130	.038	.235	.125	.037	.224	.120	.036	.213	.116	.035		
5.0	.234	.119	.035	.228	.117	.034	.217	.113	.033	.206	.109	.032	.197	.105	.032		
6.0	.216	.108	.031	.211	.106	.031	.201	.103	.030	.191	.099	.029	.182	.096	.028		
7.0	.200	.099	.028	.196	.097	.028	.186	.094	.027	.178	.091	.027	.170	.088	.026		
8.0	.187	.091	.026	.182	.090	.025	.174	.087	.025	.166	.084	.024	.159	.082	.024		
9.0	.175	.085	.024	.171	.083	.023	.163	.081	.023	.156	.078	.022	.149	.076	.022		
10.0	.164	.079	.022	.160	.077	.022	.153	.075	.021	.147	.073	.021	.141	.071	.020		

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.244	.244	.244	.209	.209	.209	.142	.142	.142	.082	.082	.082	.026	.026	.026		
1.0	.236	.210	.187	.202	.180	.161	.138	.124	.111	.080	.072	.065	.025	.023	.021		
2.0	.229	.186	.151	.196	.160	.131	.134	.111	.091	.077	.065	.053	.025	.021	.017		
3.0	.221	.169	.128	.189	.146	.111	.130	.101	.078	.075	.059	.046	.024	.019	.015		
4.0	.213	.156	.113	.183	.135	.098	.126	.094	.069	.073	.055	.041	.023	.018	.013		
5.0	.206	.146	.102	.177	.126	.089	.122	.088	.063	.071	.052	.037	.023	.017	.012		
6.0	.199	.138	.094	.171	.119	.082	.118	.084	.058	.068	.049	.035	.022	.016	.011		
7.0	.192	.131	.089	.165	.114	.077	.114	.080	.055	.066	.047	.033	.021	.015	.011		
8.0	.185	.125	.084	.159	.109	.073	.110	.076	.052	.064	.045	.031	.021	.015	.010		
9.0	.179	.120	.081	.154	.105	.071	.107	.073	.050	.062	.043	.030	.020	.014	.010		
10.0	.173	.116	.078	.149	.101	.068	.104	.071	.049	.060	.042	.029	.020	.014	.010		

Test System: HopooColor HPG1800
 Temperature: 25.3 DEG
 Operators: W
 Test Date: 2024年07月13日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.450 m
 Remarks:

Uncorrected UGR Table

Report number:

MANUFACTURER:										
Address:										
NAME: 0028920231 12W 3000K 1500lm					TYPE:			WEIGHT:		
SPECIFICATION:					DIMENSION: 0.22*0.052			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	21.9	23.4	22.3	23.7	24.0	21.9	23.3	22.2	23.7	24.0
3H	23.7	25.0	24.1	25.4	25.8	23.6	24.9	24.0	25.3	25.6
4H	24.5	25.8	24.9	26.2	26.6	24.3	25.6	24.7	26.0	26.4
6H	25.2	26.4	25.7	26.8	27.3	24.9	26.1	25.4	26.5	27.0
8H	25.6	26.7	26.0	27.1	27.6	25.2	26.4	25.6	26.8	27.2
12H	25.9	27.0	26.3	27.4	27.9	25.4	26.6	25.9	27.0	27.4
4H 2H	22.5	23.8	23.0	24.2	24.6	22.5	23.8	22.9	24.2	24.6
3H	24.5	25.6	24.9	26.0	26.5	24.4	25.6	24.9	26.0	26.4
4H	25.4	26.4	25.9	26.9	27.4	25.3	26.4	25.8	26.8	27.3
6H	26.3	27.2	26.8	27.7	28.2	26.1	27.1	26.6	27.5	28.0
8H	26.7	27.5	27.2	28.0	28.6	26.5	27.3	27.0	27.8	28.4
12H	27.1	27.9	27.6	28.4	28.9	26.8	27.6	27.3	28.1	28.7
8H 4H	25.8	26.6	26.3	27.1	27.6	25.7	26.5	26.2	27.0	27.6
6H	26.8	27.5	27.3	28.0	28.6	26.7	27.4	27.3	28.0	28.5
8H	27.3	28.0	27.9	28.5	29.1	27.2	27.8	27.8	28.4	29.0
12H	27.9	28.4	28.5	29.0	29.6	27.7	28.2	28.3	28.8	29.4
12H 4H	25.8	26.6	26.3	27.1	27.6	25.7	26.5	26.3	27.0	27.6
6H	26.9	27.5	27.5	28.1	28.7	26.8	27.5	27.4	28.0	28.6
8H	27.5	28.0	28.1	28.6	29.2	27.4	27.9	28.0	28.5	29.1

Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 1585 lm Total Lamp Luminous Flux. (8log(F/F0) = 1.6)

Test System: HopooColor HPG1800 Test Set: 5.0deg/s C-Gamma (TYPE C)
 Temperature: 25.3DEG Humidity: 65.0%
 Operators: W Test Distance: 8.450 m
 Test Date: 2024年07月13日 Remarks:

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920231 12W 3000K 1500lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.22*0.052	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	54	42	35	53	42	35	52	41	35	28
0.80	64	52	44	62	51	44	60	50	43	36
1.00	72	60	52	70	59	52	68	60	51	43
1.25	79	68	60	77	67	59	74	65	58	50
1.50	84	73	66	82	72	65	78	70	64	55
2.00	91	82	75	89	80	73	84	77	71	62
2.50	95	87	80	93	85	79	88	81	76	66
3.00	99	91	85	96	89	83	91	85	80	70
4.00	103	96	91	100	94	89	94	90	86	75
5.00	105	100	95	102	97	93	97	93	89	78
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

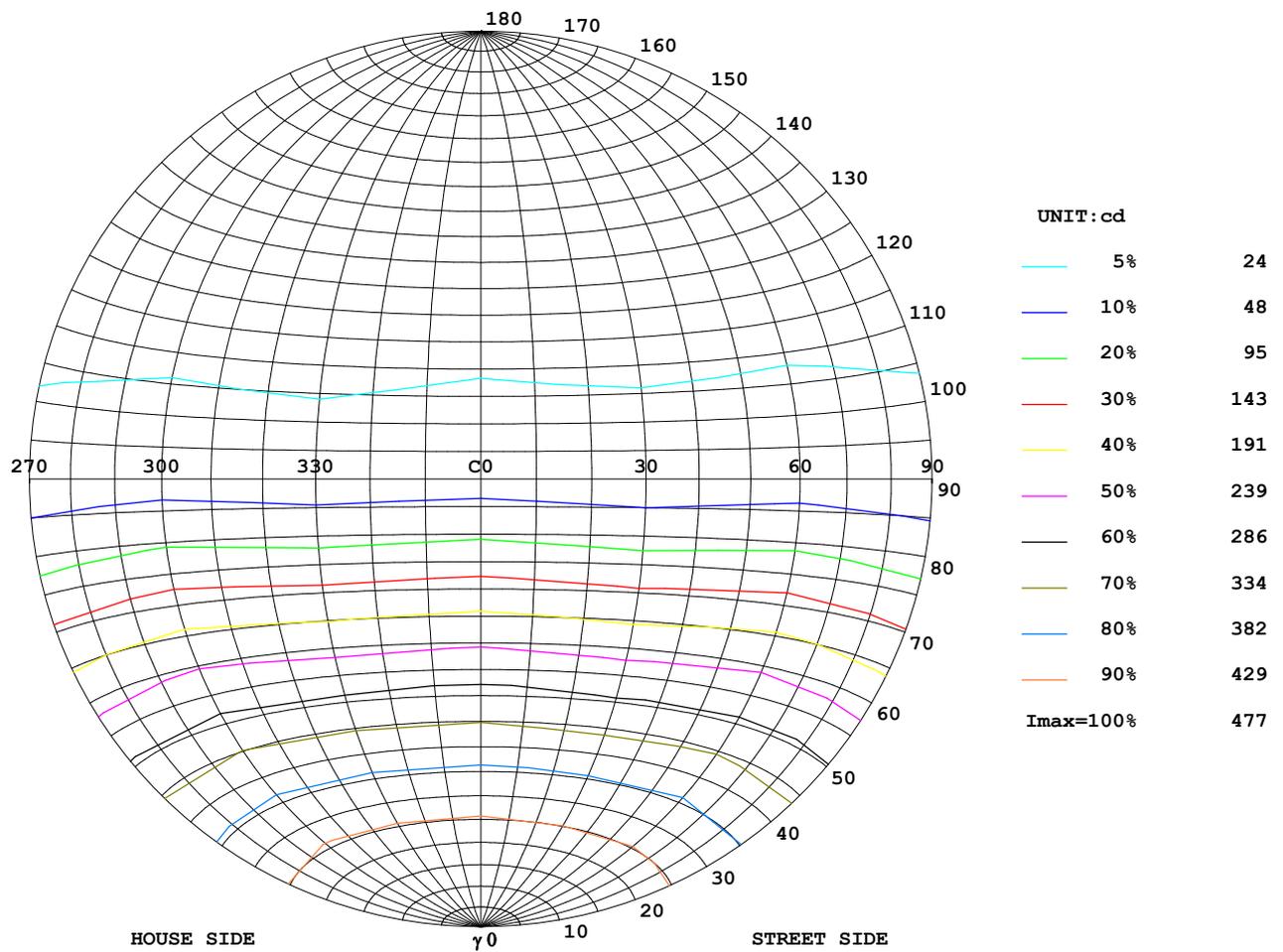
Test System: HopooColor HPG1800
 Temperature: 25.3DEG
 Operators: W
 Test Date: 2024年07月13日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.450 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920231 12W 3000K 1500lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.22*0.052	SERIAL No.:



Test System: HopooColor HPG1800
 Temperature: 25.3DEG
 Operators: W
 Test Date: 2024年07月13日

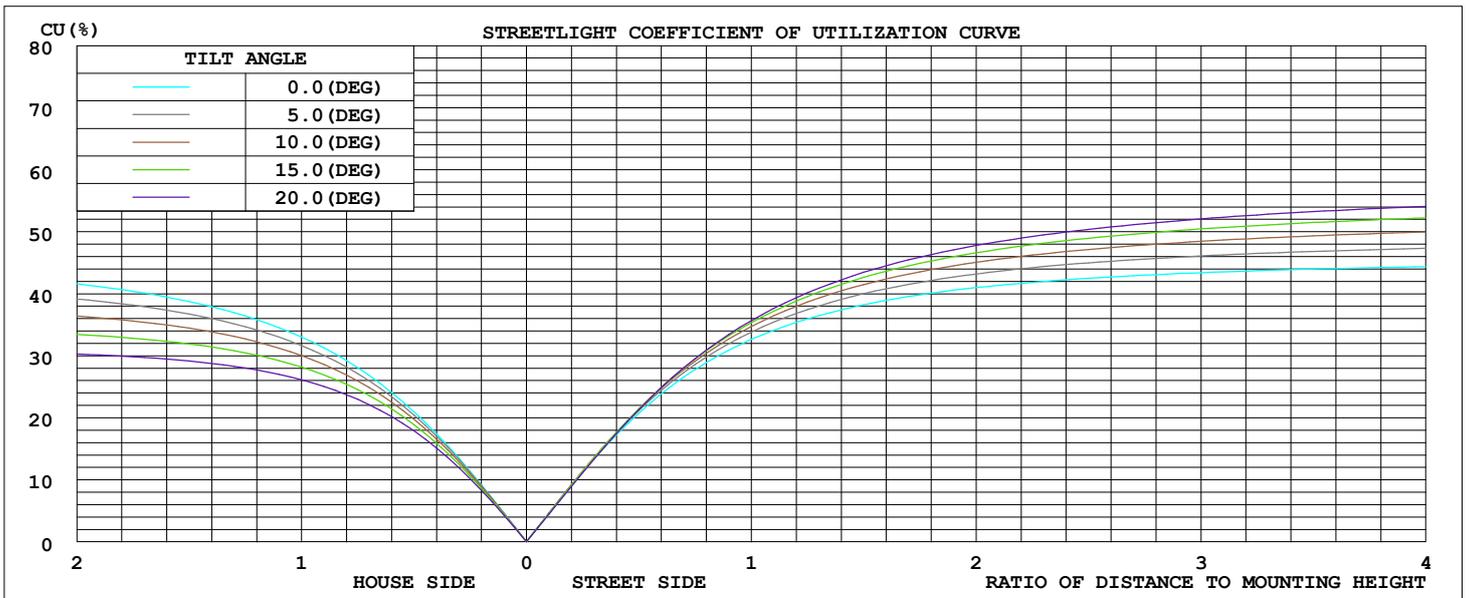
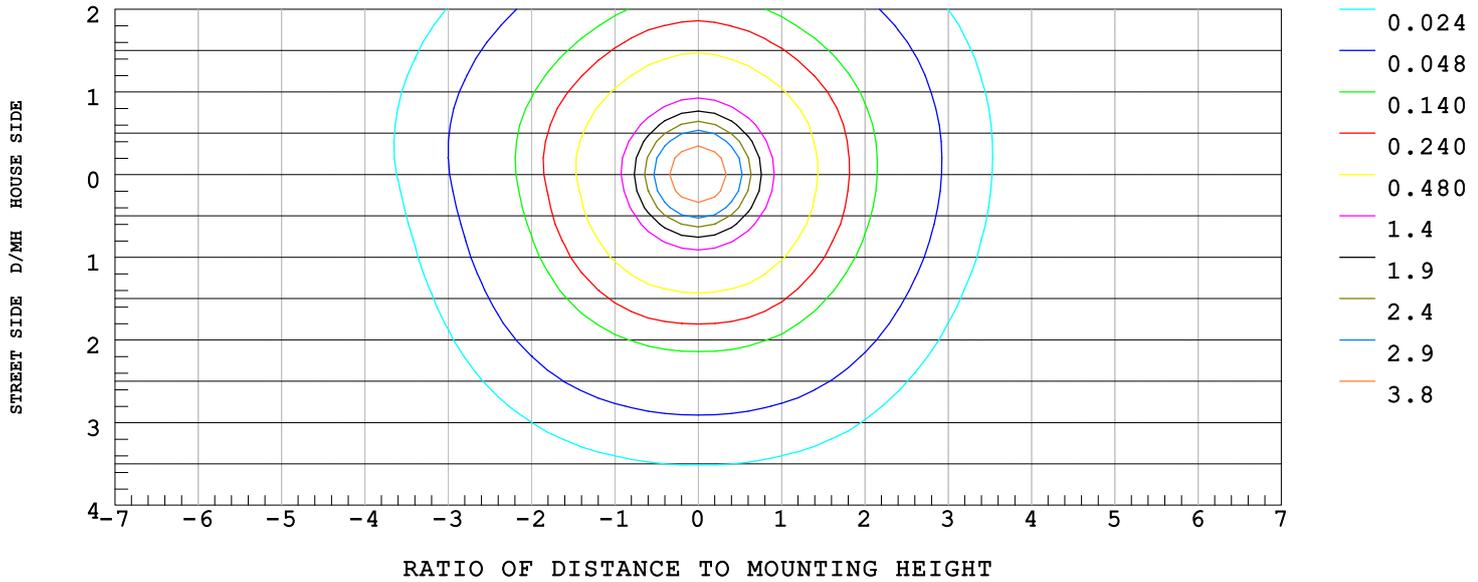
Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.450 m
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920231 12W 3000K 1500lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.22*0.052	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 4.77 lx



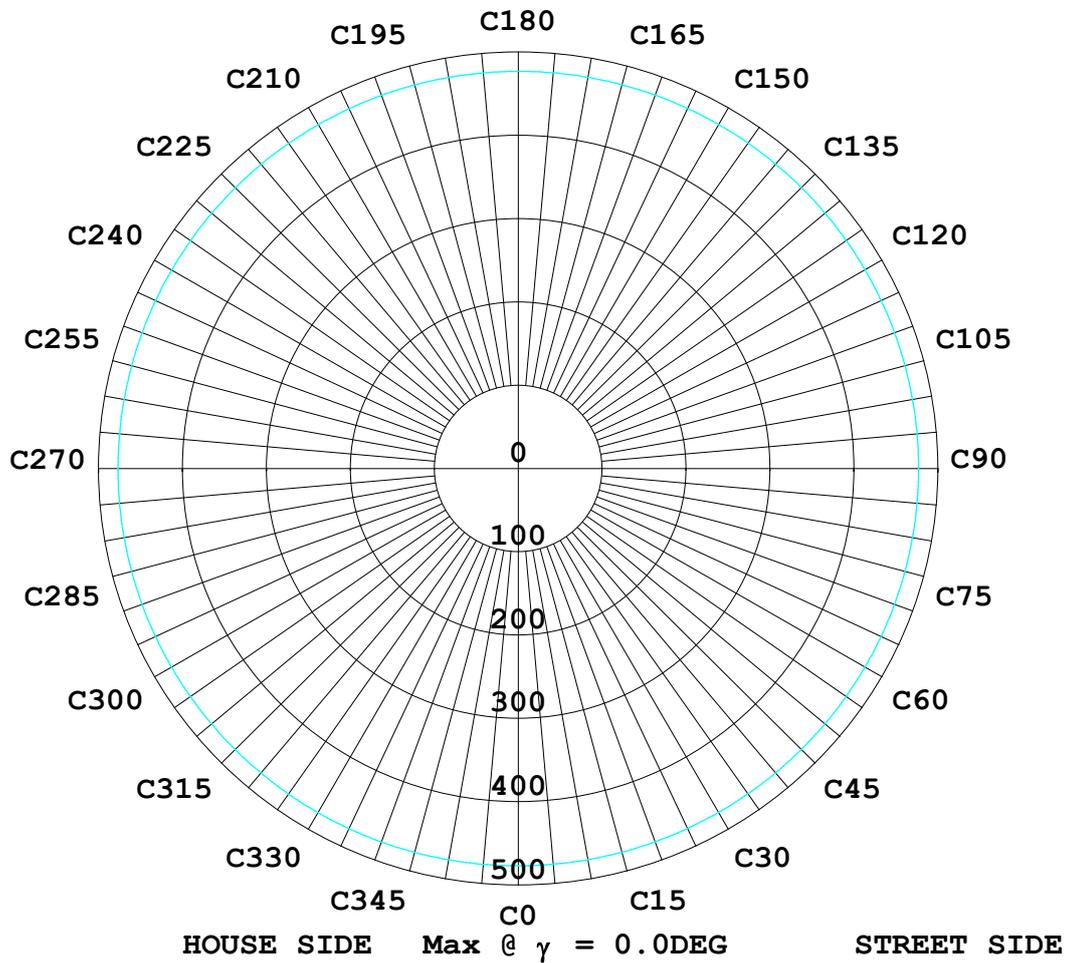
Test System: HopooColor HPG1800
 Temperature: 25.3 DEG
 Operators: W
 Test Date: 2024年07月13日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.450 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920231 12W 3000K 1500lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.22*0.052	SERIAL No.:



Test System: HopooColor HPG1800
 Temperature: 25.3DEG
 Operators: W
 Test Date: 2024年07月13日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.450 m
 Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920231 12W 3000K 1500lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.22*0.052	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	477	477	477	477	477	477	477	477	477	477	477	477
5.0	476	475	476	475	475	475	475	476	475	476	476	476
10.0	471	470	470	469	470	469	470	471	470	471	471	472
15.0	462	461	461	460	460	459	460	462	461	463	462	463
20.0	449	447	448	446	447	445	447	448	448	450	449	451
25.0	432	430	431	428	429	427	429	431	430	433	432	434
30.0	412	409	410	407	409	407	408	411	410	413	412	414
35.0	388	385	386	383	385	382	385	387	386	390	388	391
40.0	361	358	360	356	358	355	357	361	359	363	361	364
45.0	333	324	331	321	329	320	322	332	324	334	326	336
50.0	301	292	299	289	297	287	290	300	293	303	295	304
55.0	267	257	266	255	263	253	256	267	258	269	261	271
60.0	233	223	231	220	229	218	221	232	223	235	225	237
65.0	197	186	195	183	193	181	185	196	187	199	189	201
70.0	160	148	158	146	155	144	148	159	150	162	152	164
75.0	124	112	122	110	119	109	111	123	113	126	116	128
80.0	88.2	77.9	86.3	75.7	84.3	74.6	77.1	87.5	78.4	89.9	81.1	91.9
85.0	56.6	47.3	54.9	45.4	53.4	44.6	46.6	55.4	47.6	57.5	49.9	59.3
90.0	30.1	26.1	28.9	25.7	28.1	25.7	25.7	29.7	26.1	31.2	26.9	32.5
95.0	26.6	25.4	26.1	24.9	25.9	25.0	25.0	26.2	25.4	26.7	25.9	26.9
100.0	25.6	24.5	25.0	24.2	24.9	24.2	24.2	25.0	24.5	25.6	25.0	25.7
105.0	24.5	23.6	24.0	23.2	23.9	23.3	23.2	24.0	23.5	24.5	24.0	24.7
110.0	23.4	22.4	22.8	22.2	22.7	22.0	22.2	22.7	22.3	23.4	22.7	23.4
115.0	22.3	20.7	21.2	15.2	21.1	20.4	21.2	21.1	20.6	17.2	21.0	21.7
120.0	21.0	18.9	19.3	16.2	19.2	18.8	19.9	19.3	18.6	16.3	19.1	19.9
125.0	19.6	17.2	16.9	14.2	16.9	17.2	18.5	17.6	16.2	14.9	16.7	18.1
130.0	18.1	15.6	14.6	12.0	14.6	15.6	17.0	15.9	13.8	13.2	14.2	16.4
135.0	16.4	14.0	12.3	9.63	12.4	14.2	15.5	14.4	11.7	10.5	11.9	14.8
140.0	14.8	12.5	10.6	8.35	10.8	12.7	13.9	12.9	10.2	8.92	10.3	13.2
145.0	13.1	11.1	9.35	7.35	9.56	11.2	12.3	11.5	8.99	7.92	9.06	11.7
150.0	11.4	9.63	8.13	6.14	8.42	9.85	10.7	10.2	7.92	7.14	7.92	10.2
155.0	9.71	8.28	6.71	5.06	7.06	8.42	9.21	8.85	6.64	5.28	6.64	8.85
160.0	8.13	6.85	5.85	4.64	6.21	7.14	7.71	7.56	5.78	4.92	5.71	7.42
165.0	6.56	5.64	5.06	4.42	5.35	5.85	6.28	6.35	5.06	4.49	4.92	6.14
170.0	5.14	4.49	4.28	3.92	4.56	4.78	5.06	5.21	4.35	4.06	4.14	4.92
175.0	4.06	3.78	3.78	3.78	3.99	3.92	4.06	4.28	3.85	3.78	3.71	3.99
180.0	3.85	3.78	3.78	3.71	3.85	3.78	3.78	3.85	3.78	3.78	3.78	3.78

Test System:HopooColor HPG1800
 Temperature:25.3DEG
 Operators:W
 Test Date:2024年07月13日

Test Set: 5.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.450 m
 Remarks: