

LUMINAIRE PHOTOMETRIC TEST REPORT

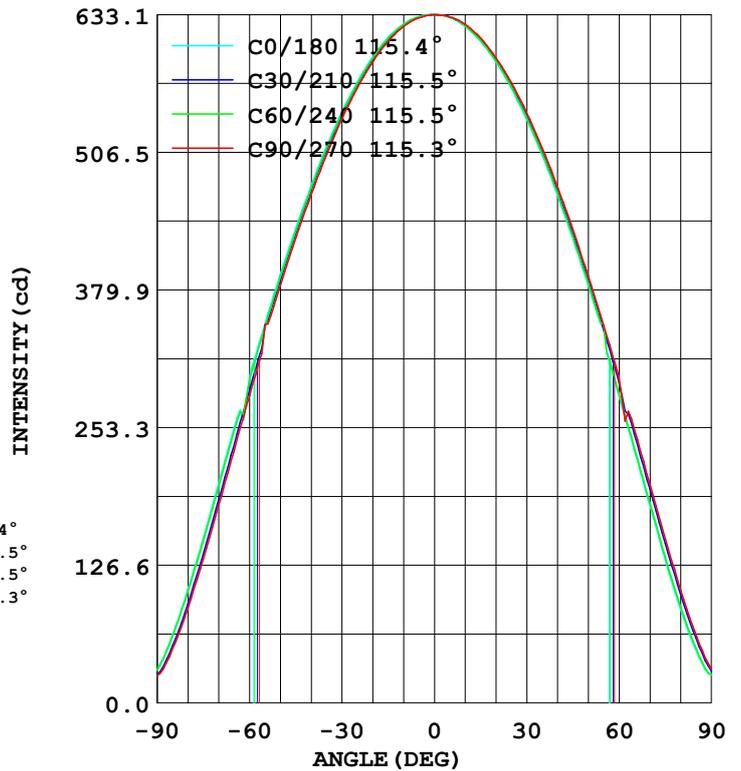
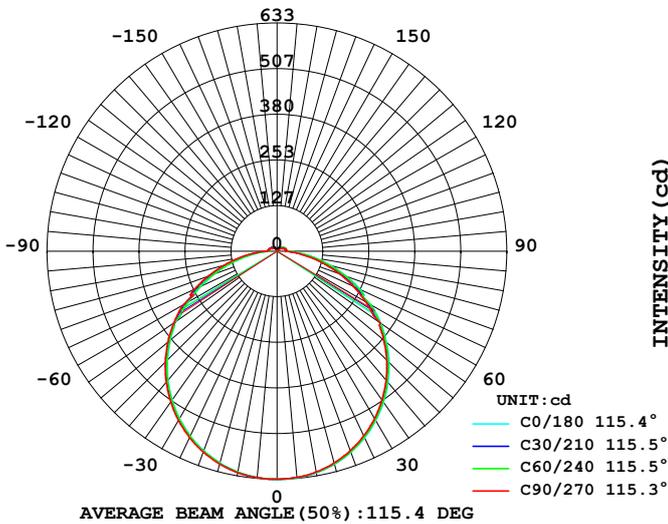
Report number :

MANUFACTURER :		
Address :		
NAME: 0028920234 14.9W 3000K 1788lm	TYPE :	WEIGHT :
SPECIFICATION :	DIMENSION: 0.28*0.052	SERIAL No. :

DATA OF LAMP		Imax (cd)	633.1	S/MH (C0/180)	1.28
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	1.26
NOMINAL POWER (W)	14	TOTAL FLUX (lm)	1788.0	Voltage (V)	229.6
RATED VOLTAGE (V)	230	EFFICIENCY (lm/W)	120.0	Current (A)	0.067
NOMINAL FLUX (lm)	2012.8	$\eta$ up (%)	5.6	Power (W)	14.9
LAMPS QUANTITY	1	$\eta$ down (%)	94.4	Power Factor (PF)	0.967
TEST VOLTAGE (V)	229.6	Effective Flux (lm)	1871.8	EEL	0.000 (E)

LUMINOUS INTENSITY DISTRIBUTION

LUMINOUS INTENSITY DISTRIBUTION



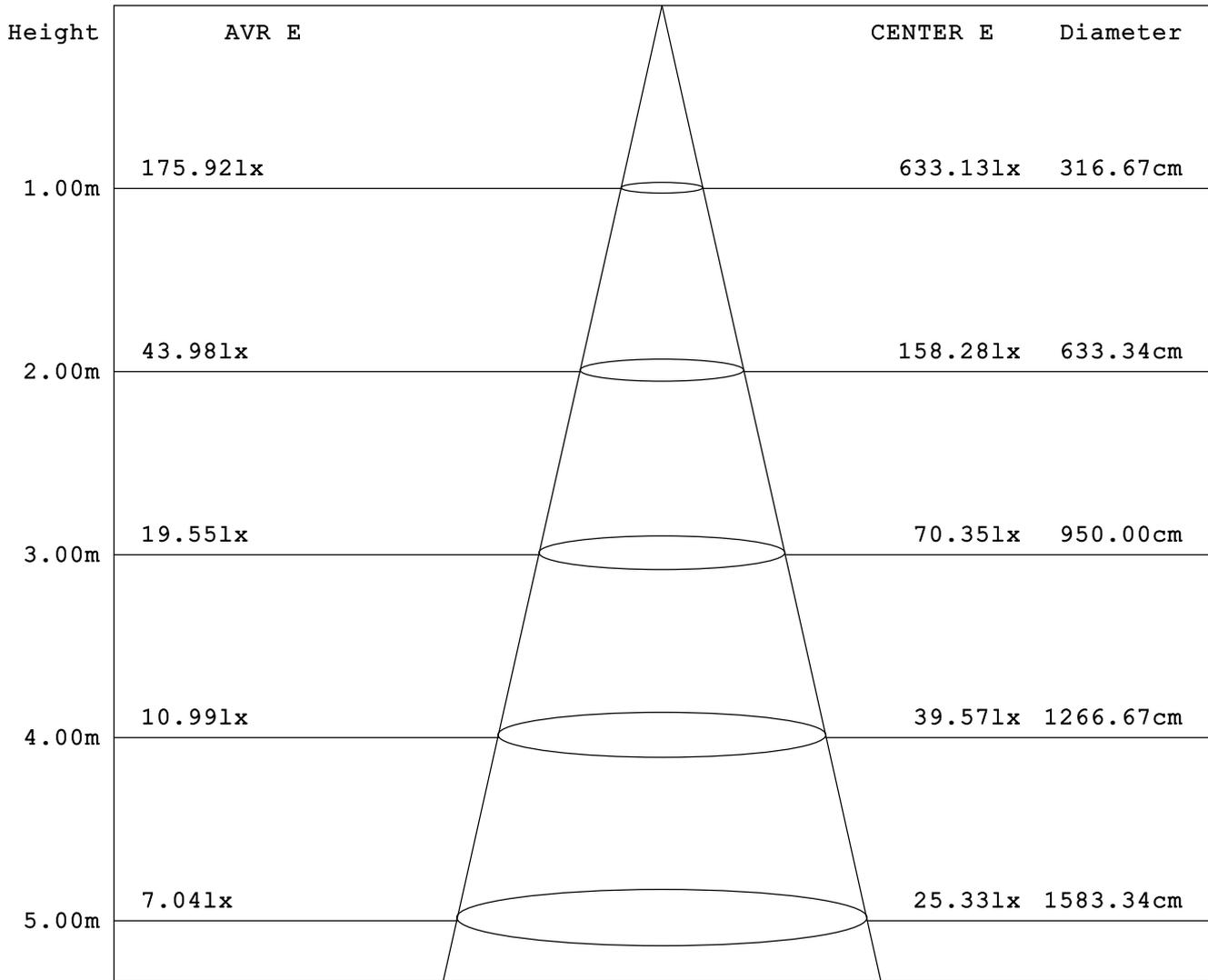
Test System: HopooColor HPG1800  
 Temperature: 25.3 DEG  
 Operators: W  
 Test Date: 2024年07月13日

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: 0028920234 14.9W 3000K 1788lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.28*0.052	SERIAL No.:



Angle:115.4deg

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: 0028920234 14.9W 3000K 1788lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.28*0.052	SERIAL No.:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	zone	total
5.0	631.3	630.8	629.9	630.2	630.4	630.6	631.0	631.3	0- 5	15.10	15.10
10.0	624.4	623.5	622.0	622.0	622.3	623.1	624.1	624.7	5- 10	44.86	59.97
15.0	611.9	610.5	608.4	608.1	608.5	609.7	611.4	612.2	10- 15	73.17	133.1
20.0	594.3	592.3	589.3	589.1	589.4	590.9	593.3	594.3	15- 20	99.05	232.2
25.0	571.2	569.1	565.6	565.1	565.7	567.7	570.7	571.8	20- 25	121.6	353.8
30.0	543.3	540.7	536.8	536.1	536.9	539.1	542.6	544.0	25- 30	140.2	494.1
35.0	511.8	508.5	503.7	503.3	503.6	506.3	510.6	511.7	30- 35	154.2	648.3
40.0	475.7	472.3	467.4	466.6	467.4	470.4	475.0	476.5	35- 40	163.3	811.6
45.0	436.1	432.5	427.2	426.3	427.0	430.2	435.4	436.8	40- 45	167.1	978.8
50.0	394.1	389.7	383.4	383.0	383.5	386.9	392.2	393.9	45- 50	165.7	1145
55.0	348.5	346.4	347.8	333.9	347.7	345.5	347.5	350.2	50- 55	159.2	1304
60.0	300.0	292.3	282.5	285.6	282.4	289.8	299.3	297.4	55- 60	146.0	1450
65.0	253.3	243.6	231.9	236.0	231.6	240.3	251.1	248.0	60- 65	128.4	1578
70.0	202.2	193.2	182.1	185.5	181.9	190.7	201.6	198.4	65- 70	109.8	1688
75.0	151.5	142.9	132.3	135.4	132.0	140.5	151.0	147.8	70- 75	87.06	1775
80.0	104.8	96.75	86.89	90.00	85.68	93.78	103.5	100.1	75- 80	63.20	1838
85.0	62.76	56.87	49.41	51.55	48.33	54.80	62.69	59.72	80- 85	40.65	1879
90.0	30.77	27.70	25.13	26.74	25.56	27.31	30.70	29.38	85- 90	21.95	1901
95.0	25.84	25.13	24.49	25.24	24.84	25.38	25.84	25.20	90- 95	14.22	1915
100.0	24.77	24.27	23.77	24.38	23.99	24.38	24.70	24.24	95-100	13.46	1929
105.0	23.77	23.34	22.99	23.45	23.13	23.42	23.63	23.27	100-105	12.76	1941
110.0	22.84	22.27	21.99	22.31	22.06	22.24	22.63	22.13	105-110	11.95	1953
115.0	21.77	20.84	17.06	20.84	20.99	20.67	20.20	20.63	110-115	10.90	1964
120.0	20.56	19.13	15.99	19.10	19.77	18.85	15.92	18.85	115-120	9.480	1974
125.0	19.27	17.27	14.78	17.24	18.42	16.92	15.42	16.95	120-125	8.291	1982
130.0	17.92	15.49	13.06	15.42	17.06	15.17	13.70	15.24	125-130	7.051	1989
135.0	16.42	13.81	10.99	13.67	15.49	13.49	11.42	13.56	130-135	5.852	1995
140.0	14.92	12.28	9.782	12.20	13.92	12.03	10.13	12.13	135-140	4.776	2000
145.0	13.35	10.92	8.853	10.85	12.42	10.74	9.068	10.85	140-145	3.844	2004
150.0	11.71	9.675	7.640	9.532	10.85	9.496	8.211	9.603	145-150	3.016	2007
155.0	10.13	8.354	6.354	8.246	9.282	8.175	6.569	8.389	150-155	2.252	2009
160.0	8.568	7.211	5.783	7.140	7.854	7.104	5.997	7.283	155-160	1.614	2011
165.0	7.068	6.212	5.355	6.104	6.497	6.104	5.355	6.247	160-165	1.095	2012
170.0	5.855	5.319	4.783	5.212	5.355	5.248	4.926	5.355	165-170	0.679	2012
175.0	4.998	4.748	4.569	4.641	4.712	4.676	4.569	4.783	170-175	0.357	2013
180.0	4.712	4.641	4.569	4.569	4.712	4.641	4.569	4.605	175-180	0.111	2013
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:

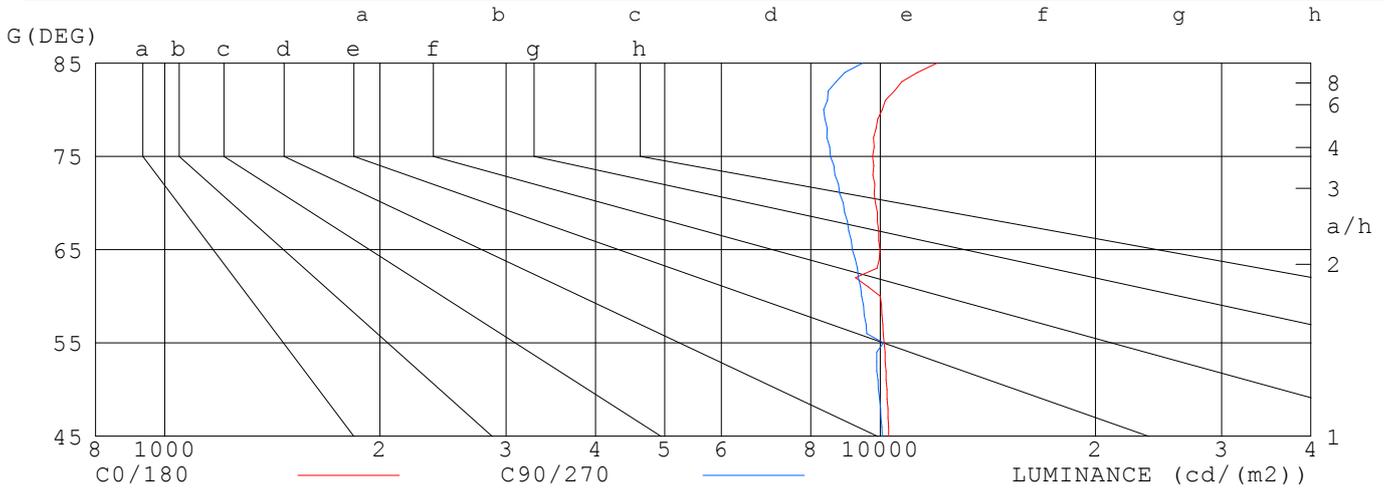
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920234 14.9W 3000K 1788lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.28*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



LUMINANCE cd/m2

G (DEG)	C0/180	C90/270
85	12002	9449
80	10060	8340
75	9761	8520
70	9854	8876
65	9991	9146
60	10001	9418
55	10129	10106
50	10220	9942
45	10281	10069

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

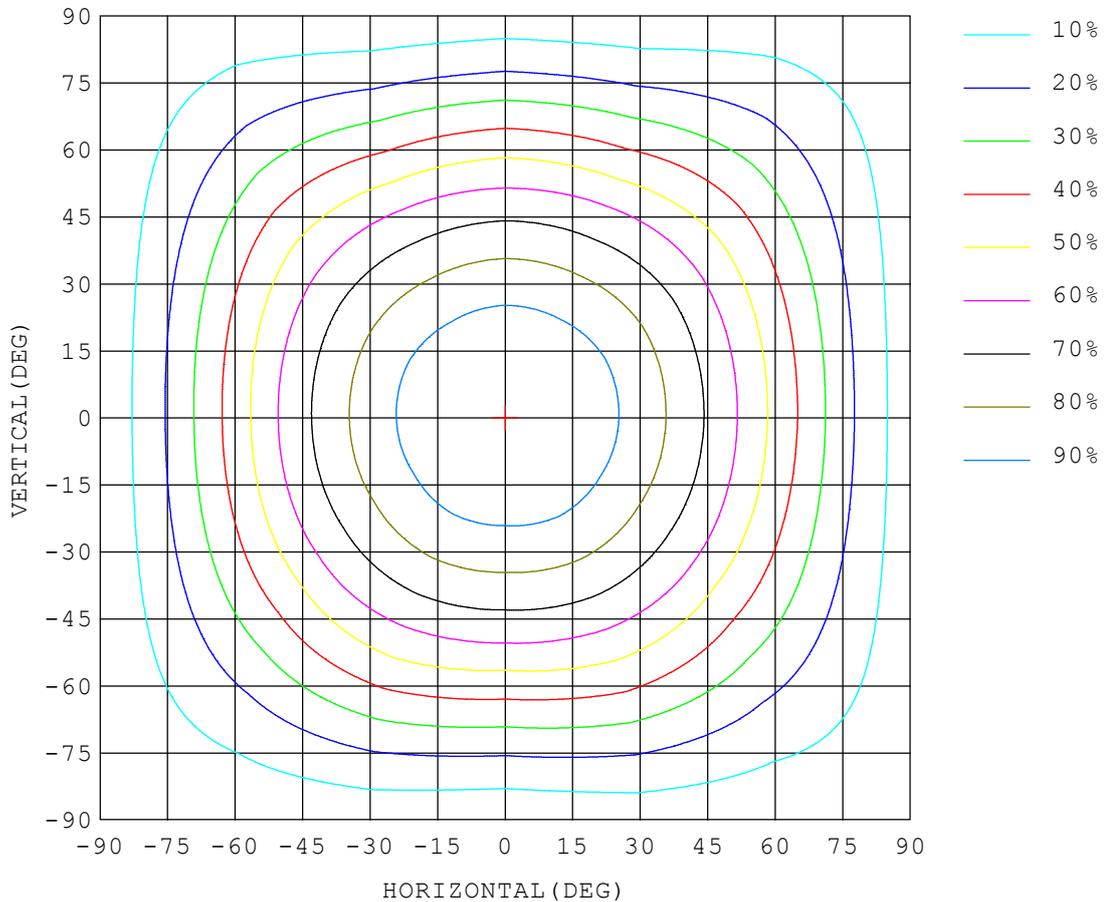
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.450 m  
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920234 14.9W 3000K 1788lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.28*0.052	SERIAL No.:

UNIT: cd



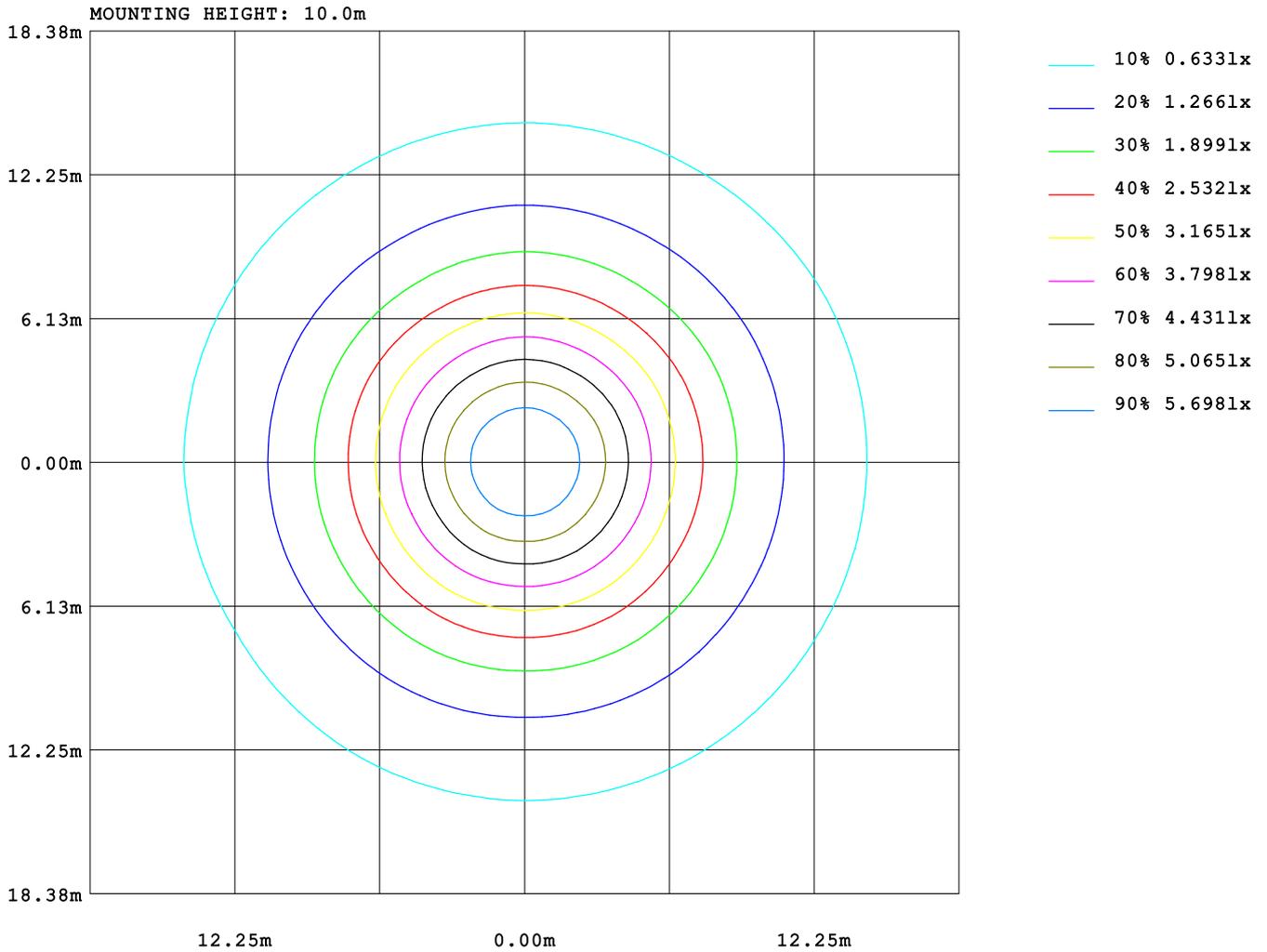
Test System: HopooColor HPG1800  
 Temperature: 25.3DEG  
 Operators: W  
 Test Date: 2024年07月13日

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: 0028920234 14.9W 3000K 17881m	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.28*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: 0028920234 14.9W 3000K 1788lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.28*0.052	SERIAL No.:

		AREA FLUX DIAGRAM																	UNIT:lm	Φ t	Φ a
VERTICAL (DEG)	90	0.07	0.26	0.50	0.77	0.99	1.17	1.39	1.66	1.87	1.89	1.71	1.46	1.26	1.08	0.86	0.58	0.31	0.09	17.9	6.81
	80	0.08	0.37	0.87	1.50	2.14	2.76	3.40	4.04	4.48	4.51	4.12	3.52	2.90	2.28	1.62	0.98	0.45	0.11	40.2	38.8
	70	0.10	0.51	1.29	2.38	3.56	4.73	5.81	6.79	7.38	7.42	6.88	5.96	4.89	3.73	2.53	1.42	0.60	0.13	66.1	65.6
	60	0.11	0.65	1.72	3.28	4.99	6.67	8.25	9.60	10.3	10.4	9.69	8.39	6.85	5.16	3.45	1.88	0.76	0.15	92.4	92.2
	50	0.13	0.78	2.14	4.09	6.28	8.57	10.5	12.1	13.0	13.0	12.2	10.7	8.74	6.48	4.27	2.31	0.90	0.16	117	117
	40	0.14	0.90	2.49	4.75	7.45	10.1	12.4	14.2	15.3	15.3	14.3	12.6	10.3	7.64	4.94	2.68	1.02	0.18	137	137
	30	0.15	1.00	2.76	5.29	8.30	11.3	13.9	15.9	17.1	17.1	16.0	14.1	11.5	8.50	5.49	2.97	1.13	0.19	153	153
		0.16	1.05	2.93	5.68	8.88	12.1	15.0	17.1	18.3	18.4	17.2	15.1	12.3	9.08	5.89	3.13	1.20	0.20	164	164
		0.16	1.08	3.01	5.86	9.16	12.5	15.5	17.7	18.9	19.0	17.8	15.6	12.6	9.36	6.08	3.22	1.23	0.20	169	169
		0.16	1.07	3.00	5.84	9.13	12.4	15.4	17.7	18.9	18.9	17.8	15.6	12.6	9.33	6.05	3.20	1.22	0.20	169	169
		0.16	1.03	2.88	5.60	8.80	12.0	14.8	17.1	18.3	18.3	17.2	15.0	12.1	8.99	5.81	3.08	1.18	0.20	163	163
	-30	0.15	0.96	2.67	5.15	8.17	11.1	13.8	15.9	17.0	17.0	16.0	14.0	11.3	8.36	5.34	2.88	1.09	0.19	152	151
	-40	0.14	0.86	2.36	4.54	7.21	9.98	12.4	14.2	15.1	15.2	14.3	12.5	10.1	7.42	4.73	2.56	0.99	0.17	135	135
	-50	0.12	0.73	1.99	3.81	6.03	8.45	10.5	12.0	12.8	12.9	12.1	10.7	8.63	6.22	4.00	2.16	0.85	0.16	115	114
	-60	0.11	0.59	1.56	2.98	4.77	6.61	8.28	9.50	10.1	10.1	9.62	8.46	6.80	4.95	3.15	1.72	0.70	0.14	90.3	89.9
	-70	0.09	0.45	1.12	2.11	3.40	4.78	5.99	6.71	7.04	7.08	6.80	6.13	4.95	3.57	2.26	1.25	0.55	0.12	64.4	63.8
-80	0.08	0.32	0.72	1.28	2.04	2.86	3.54	3.92	4.07	4.10	4.01	3.67	3.01	2.19	1.41	0.83	0.40	0.10	38.6	36.4	
-90	0.07	0.22	0.40	0.64	0.93	1.25	1.48	1.57	1.58	1.60	1.63	1.57	1.35	1.02	0.71	0.47	0.27	0.09	16.9	5.86	
		-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t		2.18	12.8	34.4	65.6	102	140	173	198	212	213	200	176	143	105	68.6	37.3	14.8	2.76	2013	
Φ a		0.65	11.0	32.7	63.9	101	138	171	197	211	211	199	174	141	104	67.1	35.8	13.3	1.42		1872

Test System:HopooColor HPG1800  
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 Test Distance:8.450 m  
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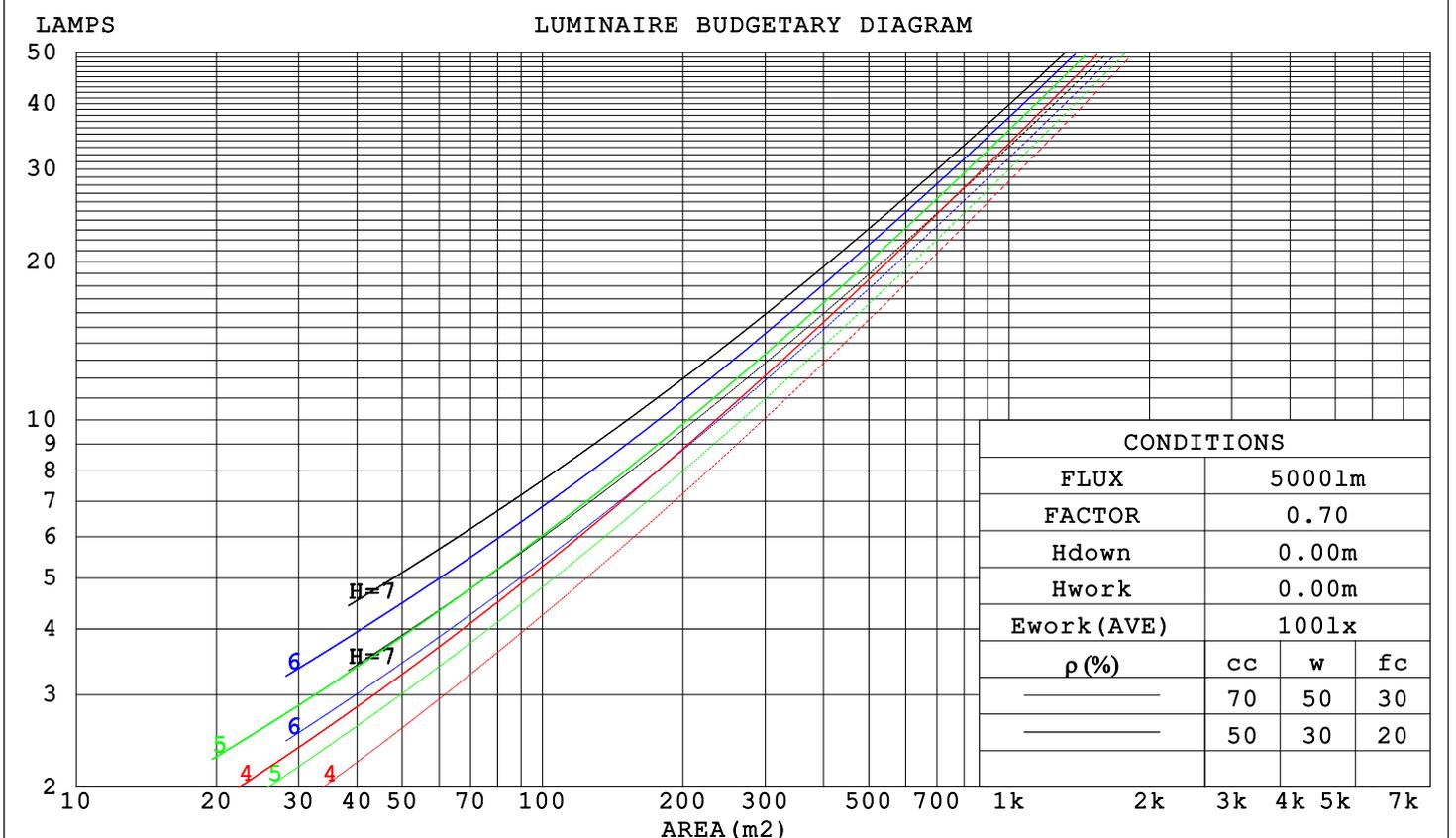


CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:															
Address:															
NAME: 0028920234 14.9W 3000K 1788lm								TYPE:				WEIGHT:			
SPECIFICATION:								DIMENSION: 0.28*0.052				SERIAL No.:			

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.97	.97	.97	.94
1.0	1.02	.97	.93	.99	.95	.91	.94	.90	.87	.89	.86	.83	.84	.82	.80	.78
2.0	.88	.81	.75	.86	.79	.74	.81	.76	.71	.77	.73	.69	.73	.70	.66	.64
3.0	.77	.69	.62	.75	.67	.61	.71	.65	.59	.68	.62	.58	.65	.60	.56	.54
4.0	.68	.59	.52	.67	.58	.52	.63	.56	.50	.60	.54	.49	.57	.52	.48	.46
5.0	.61	.52	.45	.59	.51	.44	.57	.49	.43	.54	.48	.42	.52	.46	.42	.39
6.0	.55	.46	.39	.53	.45	.39	.51	.44	.38	.49	.42	.37	.47	.41	.36	.34
7.0	.50	.41	.34	.48	.40	.34	.46	.39	.33	.44	.38	.33	.43	.37	.32	.30
8.0	.45	.37	.31	.44	.36	.30	.42	.35	.30	.41	.34	.29	.39	.33	.29	.27
9.0	.41	.33	.28	.41	.33	.27	.39	.32	.27	.37	.31	.26	.36	.30	.26	.24
10.0	.38	.30	.25	.37	.30	.25	.36	.29	.24	.35	.28	.24	.33	.28	.24	.22



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: 0028920234 14.9W 3000K 17881m										TYPE:			WEIGHT:			
SPECIFICATION:										DIMENSION: 0.28*0.052			SERIAL No.:			

$\rho_{cc}$	80%			70%			50%			30%			10%			0	
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
$\rho_{fc}$	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.326	.185	.059	.317	.181	.057	.301	.172	.055	.285	.165	.053	.271	.157	.051		
2.0	.300	.165	.050	.292	.161	.050	.278	.154	.048	.264	.148	.046	.252	.142	.045		
3.0	.275	.146	.044	.268	.144	.043	.255	.138	.042	.243	.133	.041	.232	.128	.040		
4.0	.252	.131	.039	.246	.129	.038	.234	.124	.037	.223	.120	.036	.213	.116	.035		
5.0	.232	.118	.034	.227	.116	.034	.216	.113	.033	.206	.109	.032	.197	.105	.032		
6.0	.215	.108	.031	.210	.106	.031	.200	.103	.030	.192	.100	.029	.183	.096	.029		
7.0	.200	.099	.028	.195	.097	.028	.187	.094	.027	.179	.092	.027	.171	.089	.026		
8.0	.186	.091	.026	.182	.090	.025	.174	.087	.025	.167	.085	.024	.160	.082	.024		
9.0	.174	.084	.024	.171	.083	.023	.164	.081	.023	.157	.079	.023	.151	.076	.022		
10.0	.164	.078	.022	.160	.077	.022	.154	.075	.021	.148	.073	.021	.142	.071	.020		

$\rho_{cc}$	80%			70%			50%			30%			10%			0	
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
$\rho_{fc}$	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.233	.233	.233	.199	.199	.199	.136	.136	.136	.078	.078	.078	.025	.025	.025		
1.0	.224	.199	.176	.192	.170	.151	.131	.117	.105	.075	.068	.061	.024	.022	.020		
2.0	.216	.175	.140	.185	.150	.121	.127	.104	.084	.073	.061	.049	.023	.020	.016		
3.0	.209	.157	.117	.179	.136	.101	.123	.094	.071	.071	.055	.042	.023	.018	.014		
4.0	.201	.144	.101	.172	.125	.088	.119	.087	.062	.069	.051	.037	.022	.017	.012		
5.0	.194	.134	.090	.166	.116	.079	.114	.081	.056	.066	.048	.033	.021	.016	.011		
6.0	.186	.126	.083	.160	.109	.072	.110	.076	.051	.064	.045	.030	.021	.015	.010		
7.0	.179	.119	.077	.154	.103	.067	.107	.072	.047	.062	.043	.028	.020	.014	.009		
8.0	.173	.113	.072	.149	.098	.063	.103	.069	.045	.060	.041	.027	.019	.013	.009		
9.0	.167	.109	.069	.144	.094	.060	.100	.066	.043	.058	.039	.026	.019	.013	.008		
10.0	.161	.104	.066	.139	.091	.058	.096	.064	.041	.056	.038	.025	.018	.012	.008		

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: 0028920234 14.9W 3000K 1788lm					TYPE:			WEIGHT:		
SPECIFICATION:					DIMENSION: 0.28*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	20.6	22.0	20.9	22.3	22.6	20.5	22.0	20.9	22.3	22.6
3H	22.2	23.6	22.6	23.9	24.3	22.1	23.5	22.5	23.8	24.2
4H	23.0	24.3	23.4	24.6	25.0	22.8	24.1	23.2	24.4	24.8
6H	23.6	24.8	24.0	25.2	25.6	23.3	24.5	23.7	24.9	25.3
8H	23.9	25.1	24.3	25.5	25.9	23.5	24.7	23.9	25.1	25.5
12H	24.2	25.3	24.6	25.7	26.1	23.7	24.8	24.1	25.2	25.6
4H 2H	21.2	22.5	21.6	22.8	23.2	21.2	22.4	21.6	22.8	23.2
3H	23.0	24.1	23.5	24.5	25.0	23.0	24.1	23.4	24.5	24.9
4H	23.9	24.9	24.3	25.3	25.8	23.8	24.8	24.3	25.2	25.7
6H	24.7	25.6	25.1	26.0	26.5	24.5	25.4	25.0	25.9	26.3
8H	25.0	25.9	25.5	26.3	26.8	24.8	25.6	25.3	26.1	26.6
12H	25.3	26.1	25.8	26.6	27.1	25.0	25.8	25.5	26.3	26.8
8H 4H	24.2	25.0	24.7	25.5	26.0	24.1	25.0	24.6	25.4	25.9
6H	25.1	25.8	25.7	26.3	26.9	25.0	25.7	25.6	26.2	26.8
8H	25.6	26.2	26.1	26.7	27.3	25.4	26.1	26.0	26.6	27.2
12H	26.0	26.6	26.6	27.1	27.7	25.8	26.4	26.4	26.9	27.5
12H 4H	24.2	25.0	24.7	25.5	26.0	24.1	24.9	24.7	25.4	25.9
6H	25.2	25.9	25.8	26.4	26.9	25.1	25.8	25.7	26.3	26.8
8H	25.7	26.3	26.3	26.8	27.4	25.6	26.2	26.2	26.7	27.3

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

CIE Pub.117 Corrected 2013 lm Total Lamp Luminous Flux. (8log(F/F0) = 2.4)

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: 0028920234 14.9W 3000K 1788lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.28*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) $k(RI) \times RCR = 5$									
$k = 0.60$	55	43	36	54	43	36	53	42	36	29
0.80	65	53	45	63	52	45	61	51	44	37
1.00	73	61	54	72	61	53	69	62	53	45
1.25	80	69	62	78	68	61	75	66	60	52
1.50	85	75	67	83	73	67	79	71	65	57
2.00	92	83	76	90	81	75	86	79	73	64
2.50	96	88	81	94	86	80	89	83	78	68
3.00	100	92	86	97	90	85	92	87	82	72
4.00	104	97	92	101	95	91	96	91	87	77
5.00	106	101	96	103	99	94	98	94	91	80
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

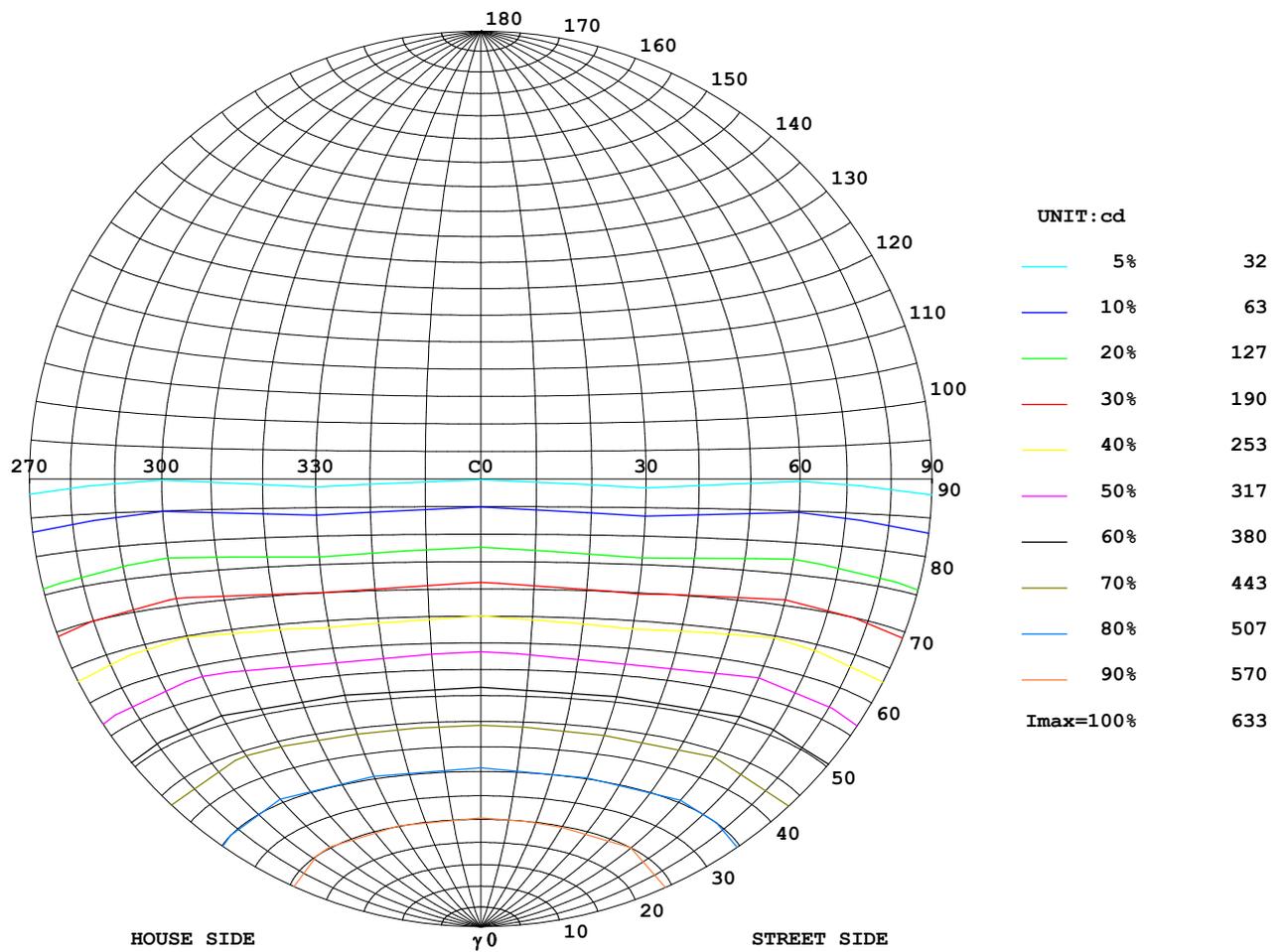
Test System: HopooColor HPG1800  
 Temperature: 25.3DEG  
 Operators: W  
 Test Date: 2024年07月13日

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: 0028920234 14.9W 3000K 1788lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.28*0.052	SERIAL No.:



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

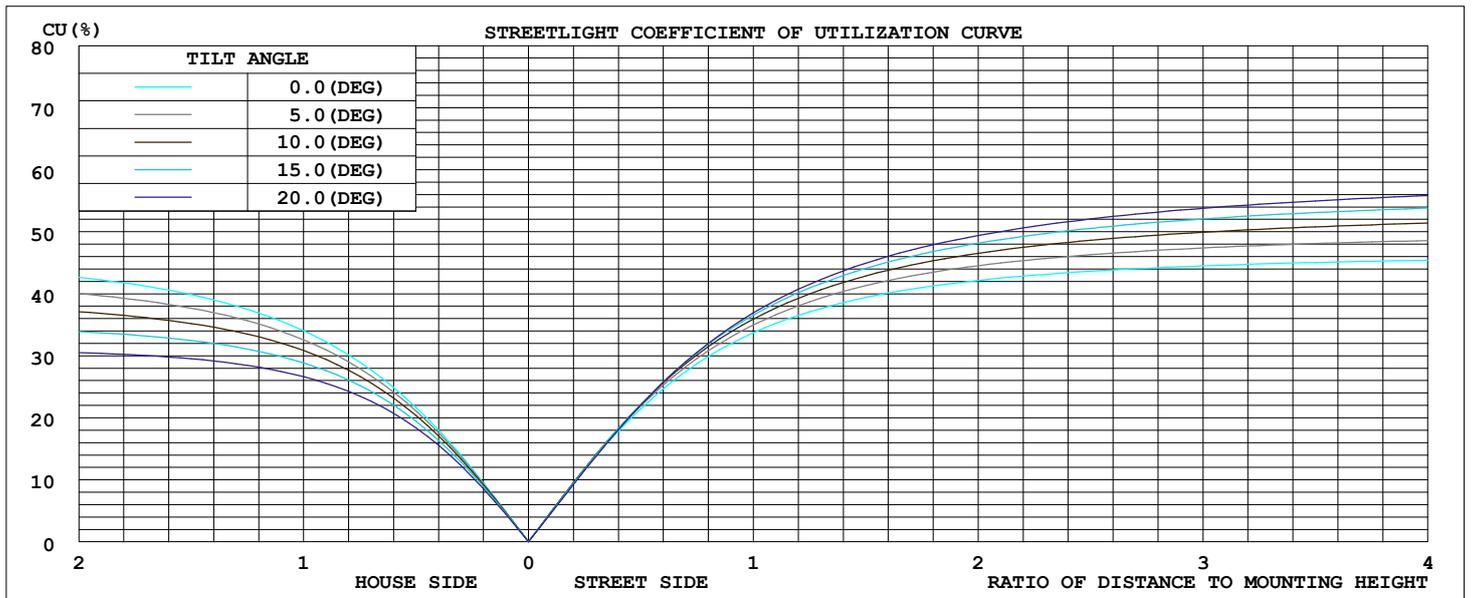
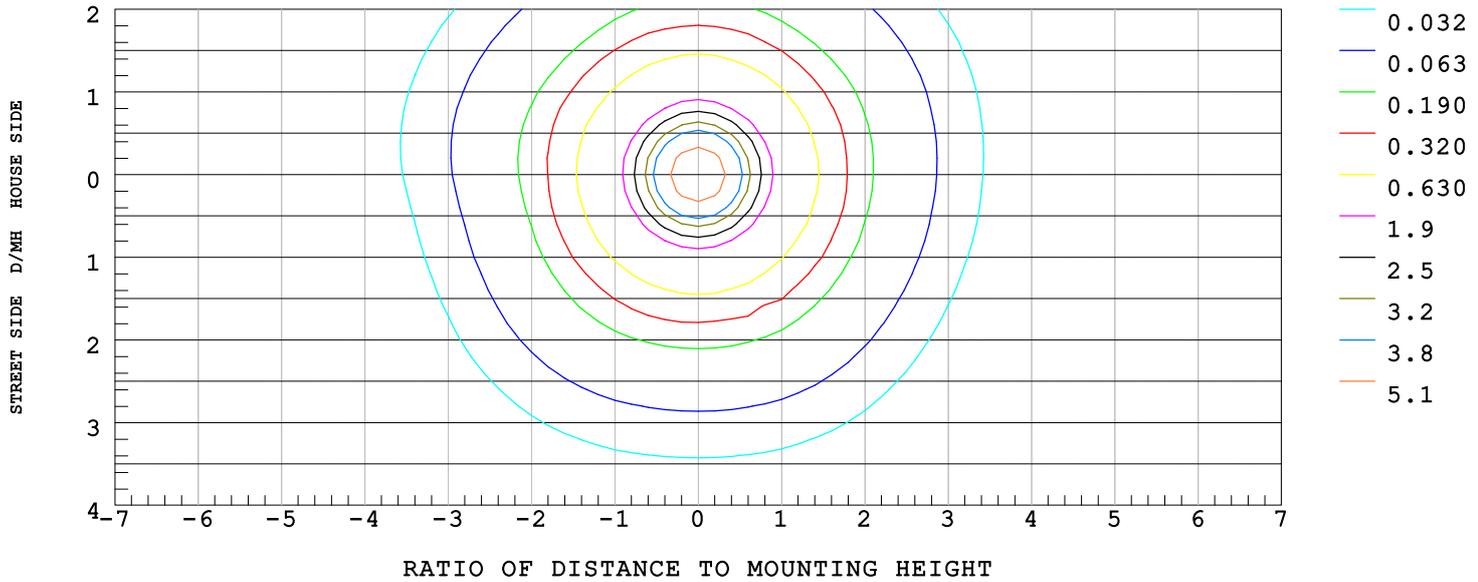
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity: 65.0%  
 Test Distance: 8.450 m  
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:		
Address:		
NAME: 0028920234 14.9W 3000K 1788lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.28*0.052	SERIAL No.:

ILLUMINANCE AT MH=10 m, Enadir = 6.33 lx



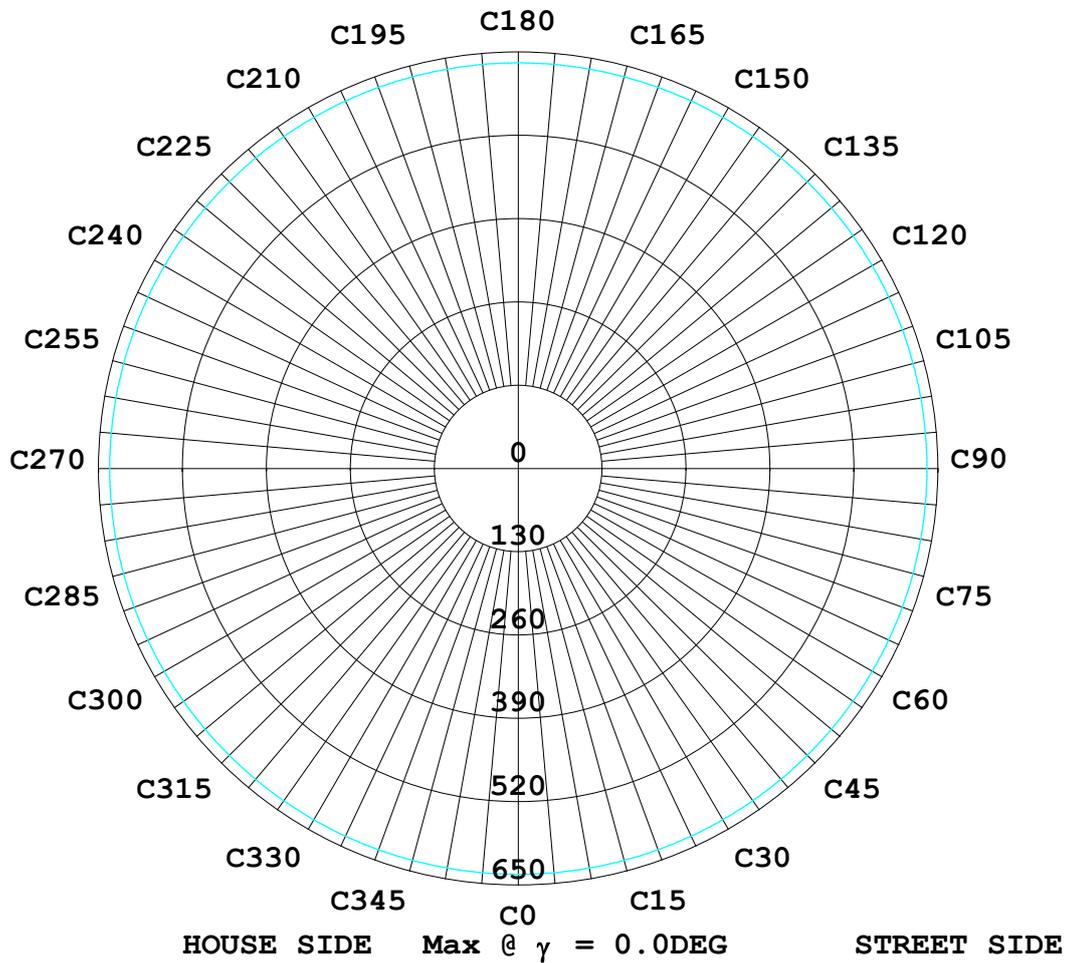
Test System: HopooColor HPG1800  
 Temperature: 25.3 DEG  
 Operators: W  
 Test Date: 2024年07月13日

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: 0028920234 14.9W 3000K 1788lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.28*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: 0028920234 14.9W 3000K 1788lm	TYPE:	WEIGHT:
SPECIFICATION:	DIMENSION: 0.28*0.052	SERIAL No.:

UNIT: cd

γ (DEG)	C (DEG)											
	0	30	60	90	120	150	180	210	240	270	300	330
0.0	633	633	633	633	633	633	633	633	633	633	633	633
5.0	631	631	631	630	631	630	630	631	630	631	631	632
10.0	624	623	624	622	623	621	622	623	623	624	624	625
15.0	612	610	611	608	609	607	609	610	609	611	611	613
20.0	594	592	593	589	591	587	589	591	591	593	593	596
25.0	571	569	570	566	567	564	566	568	567	571	570	574
30.0	543	540	542	537	538	534	537	540	539	543	542	546
35.0	512	507	510	504	506	501	504	507	505	511	510	514
40.0	476	471	473	467	469	464	467	471	469	475	474	479
45.0	436	432	434	427	429	424	427	432	429	435	434	440
50.0	394	388	391	383	386	380	384	388	386	392	391	397
55.0	349	347	346	348	341	327	348	343	348	348	348	353
60.0	300	288	297	283	293	278	282	295	285	299	290	304
65.0	253	237	250	232	245	227	232	247	234	251	240	256
70.0	202	187	199	182	193	178	182	197	184	202	190	207
75.0	152	137	149	132	143	128	132	147	135	151	140	156
80.0	105	90.8	103	86.8	97.3	82.6	85.6	99.3	88.1	104	92.6	108
85.0	62.7	52.4	61.2	49.4	56.9	46.1	48.3	59.4	50.1	62.6	53.5	65.9
90.0	30.7	25.6	29.7	25.1	27.9	25.4	25.5	29.0	25.5	30.7	25.9	32.7
95.0	25.8	24.6	25.6	24.4	25.7	24.7	24.8	25.9	24.7	25.8	24.5	25.8
100.0	24.7	23.9	24.6	23.7	24.7	24.0	23.9	24.8	23.9	24.7	23.7	24.7
105.0	23.7	23.0	23.6	22.9	23.7	23.2	23.1	23.7	23.0	23.6	22.9	23.6
110.0	22.8	21.8	22.7	21.9	22.7	21.9	22.0	22.4	21.9	22.6	21.8	22.4
115.0	21.7	20.3	21.3	17.0	21.2	20.4	20.9	20.8	20.4	20.2	20.3	20.9
120.0	20.5	18.8	19.4	15.9	19.3	18.8	19.7	19.2	18.4	15.9	18.3	19.3
125.0	19.2	17.3	17.2	14.7	17.0	17.4	18.4	17.7	16.1	15.4	16.1	17.7
130.0	17.9	15.9	15.0	13.0	14.9	15.9	17.0	16.2	14.1	13.7	14.1	16.3
135.0	16.4	14.5	13.0	10.9	12.8	14.4	15.4	14.7	12.2	11.4	12.2	14.9
140.0	14.9	13.1	11.4	9.78	11.3	13.0	13.9	13.4	10.6	10.1	10.7	13.5
145.0	13.3	11.7	10.1	8.85	10.0	11.6	12.4	11.9	9.49	9.06	9.56	12.1
150.0	11.7	10.3	8.99	7.64	8.92	10.1	10.8	10.5	8.42	8.21	8.49	10.7
155.0	10.1	8.92	7.78	6.35	7.71	8.78	9.28	9.13	7.21	6.56	7.35	9.42
160.0	8.56	7.56	6.85	5.78	6.85	7.42	7.85	7.78	6.42	5.99	6.49	8.06
165.0	7.06	6.42	5.99	5.35	5.99	6.21	6.49	6.56	5.64	5.35	5.71	6.78
170.0	5.85	5.35	5.28	4.78	5.21	5.21	5.35	5.56	4.92	4.92	4.99	5.71
175.0	4.99	4.71	4.78	4.56	4.71	4.56	4.71	4.78	4.56	4.56	4.64	4.92
180.0	4.71	4.64	4.64	4.56	4.56	4.56	4.71	4.64	4.64	4.56	4.56	4.64

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: