

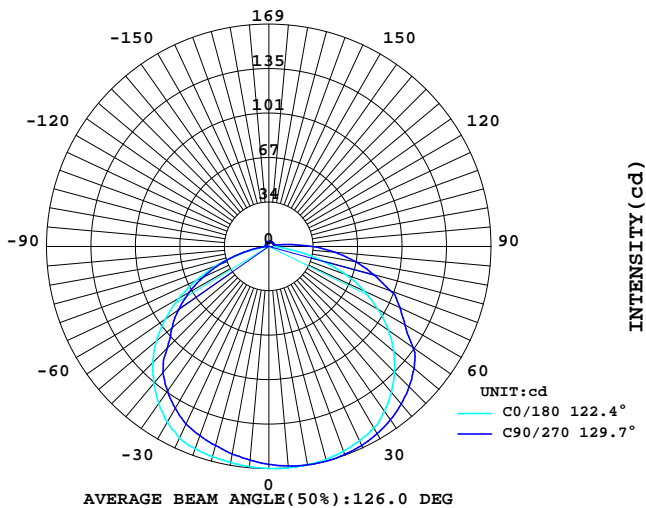
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

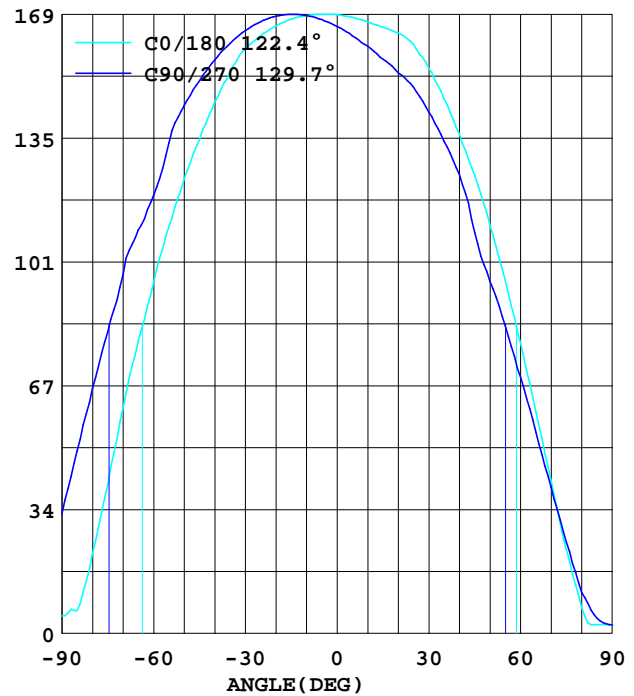
MANUFACTURER:			
Address:			
NAME: 47-RS-5050-24-112-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211130008

DATA OF LAMP		I _{max} (cd)	168.5	S/MH(C0/180)	1.40
MODEL	5050	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.49
NOMINAL POWER(W)	9	TOTAL FLUX(lm)	593.52	Voltage(V)	24.01
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	65.0	Current(A)	0.380
NOMINAL FLUX(lm)	593.5	h up(%)	4.3	Power(W)	9.130
LAMPS QUANTITY	1	h down(%)	95.7	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effective Flux(lm)	564.4	EEL	0.188

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年11月30日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

Color Temperature Data List

Report number:

MANUFACTURER:			
Address:			
NAME: 47-RS-5050-24-112-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211130008

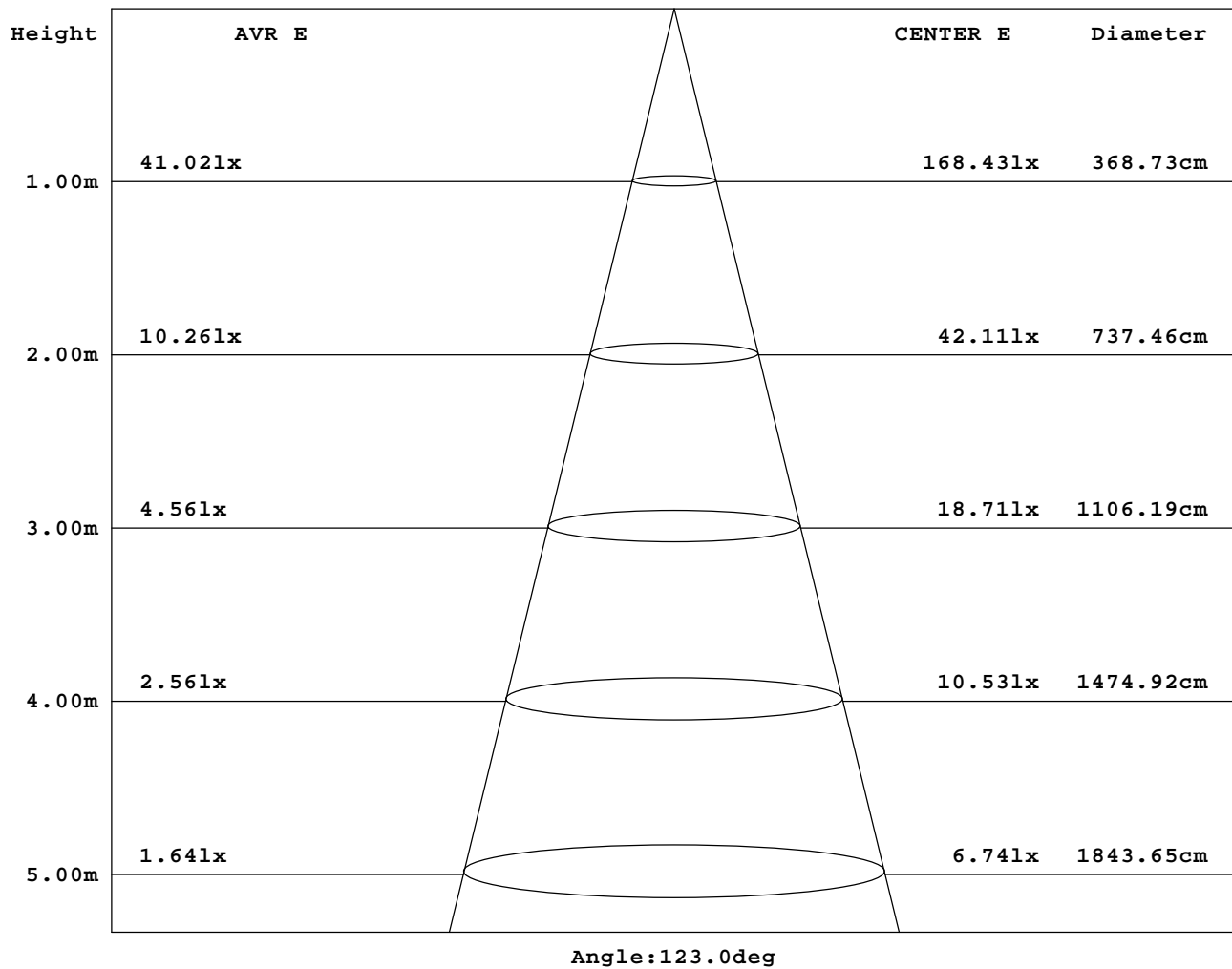
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年11月30日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.800 m
Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:			
Address:			
NAME: 47-RS-5050-24-112-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211130008



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021年11月30日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.800 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 47-RS-5050-24-112-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211130008

g	C0	C45	C90	C135	C180	C225	C270	C315	g	4one	tBtal
5.0	168.5	168.1	167.1	167.8	167.7	167.2	162.7	164.5	0- 5	3.990	3.990
10.0	168.1	167.5	168.1	168.4	166.4	165.9	159.9	161.7	5- 10	11.89	15.88
15.0	167.2	166.3	168.5	168.3	165.0	163.8	156.3	157.9	10- 15	19.57	35.46
20.0	165.4	164.0	168.0	167.5	163.3	161.1	152.6	153.0	15- 20	26.88	62.34
25.0	162.7	160.9	166.5	166.1	160.4	157.5	148.7	147.2	20- 25	33.64	95.99
30.0	159.1	156.8	164.0	163.9	153.7	152.6	141.9	140.0	25- 30	39.59	135.5
35.0	152.7	151.7	160.6	160.6	145.4	146.5	133.9	131.5	30- 35	44.51	180.1
40.0	144.6	145.8	156.1	156.4	135.9	139.6	124.9	122.2	35- 40	48.17	228.2
45.0	134.5	138.3	150.4	150.6	124.6	131.0	109.0	111.0	40- 45	50.38	278.6
50.0	123.8	129.5	143.8	143.4	111.2	120.5	95.87	90.44	45- 50	50.81	329.4
55.0	110.8	119.2	133.5	135.3	96.10	103.0	83.79	74.80	50- 55	49.46	378.9
60.0	95.48	102.9	119.2	125.1	78.98	84.87	69.77	60.09	55- 60	45.97	424.9
65.0	79.60	83.48	109.8	106.5	60.24	67.60	54.75	46.61	60- 65	41.00	465.9
70.0	61.48	70.16	97.80	89.90	41.74	54.98	39.88	30.74	65- 70	34.68	500.5
75.0	40.50	53.12	82.08	75.73	22.76	36.16	24.85	18.97	70- 75	27.33	527.9
80.0	21.76	36.16	66.67	57.69	7.047	22.99	11.15	8.828	75- 80	19.66	547.5
85.0	6.272	22.38	49.71	39.88	2.400	10.76	4.181	5.033	80- 85	12.47	560.0
90.0	4.723	10.22	32.60	26.17	2.478	5.111	2.323	4.414	85- 90	7.722	567.7
95.0	4.259	3.252	17.81	12.23	2.555	4.491	2.323	4.336	90- 95	4.692	572.4
100.0	4.104	2.323	7.279	3.717	2.632	4.414	2.400	4.336	95-100	2.697	575.1
105.0	3.949	2.400	4.259	2.323	2.787	4.336	2.555	4.181	100-105	1.879	577.0
110.0	3.949	2.478	4.104	2.323	2.865	4.181	2.632	4.104	105-110	1.746	578.7
115.0	3.872	2.632	3.949	2.400	3.020	4.104	2.787	4.104	110-115	1.694	580.4
120.0	3.872	2.710	3.872	2.478	3.097	4.104	2.865	4.104	115-120	1.640	582.1
125.0	3.872	2.865	3.872	2.632	3.252	4.104	3.020	4.104	120-125	1.582	583.7
130.0	3.949	2.942	3.794	2.710	3.329	4.104	3.097	4.181	125-130	1.514	585.2
135.0	3.949	3.020	3.794	2.787	3.484	4.181	3.175	4.181	130-135	1.433	586.6
140.0	3.949	3.175	3.872	2.865	3.562	4.181	3.329	4.181	135-140	1.333	587.9
145.0	4.026	3.252	3.872	3.020	3.717	4.181	3.407	4.181	140-145	1.225	589.2
150.0	4.026	3.329	3.872	3.097	3.794	4.181	3.407	4.104	145-150	1.095	590.3
155.0	4.104	3.407	3.949	3.252	3.872	4.181	3.484	4.104	150-155	0.954	591.2
160.0	4.104	3.484	3.949	3.329	3.949	4.181	3.562	4.104	155-160	0.799	592.0
165.0	4.104	3.562	3.949	3.407	4.026	4.181	3.639	4.104	160-165	0.633	592.6
170.0	4.181	3.562	4.026	3.407	4.026	4.104	3.639	4.026	165-170	0.460	593.1
175.0	4.181	3.639	4.026	3.484	4.104	4.104	3.639	4.026	170-175	0.279	593.4
180.0	4.104	3.717	4.026	3.639	4.259	4.026	3.717	3.872	175-180	0.093	593.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年11月30日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.800 m
Remarks:

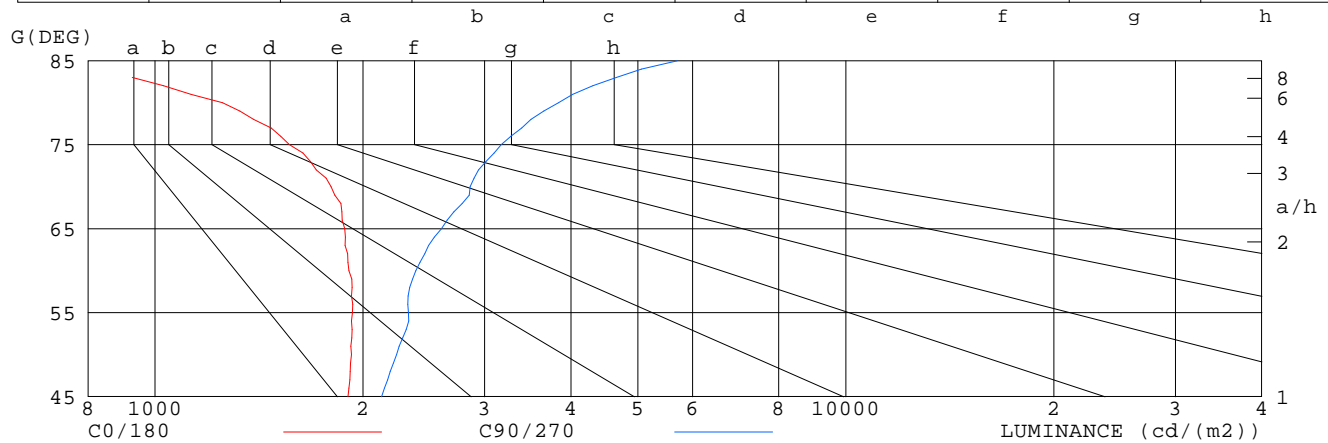
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME: 47-RS-5050-24-112-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211130008

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	720	5704
80	1253	3840
75	1565	3172
70	1798	2860
65	1884	2598
60	1910	2385
55	1932	2328
50	1926	2237
45	1902	2128

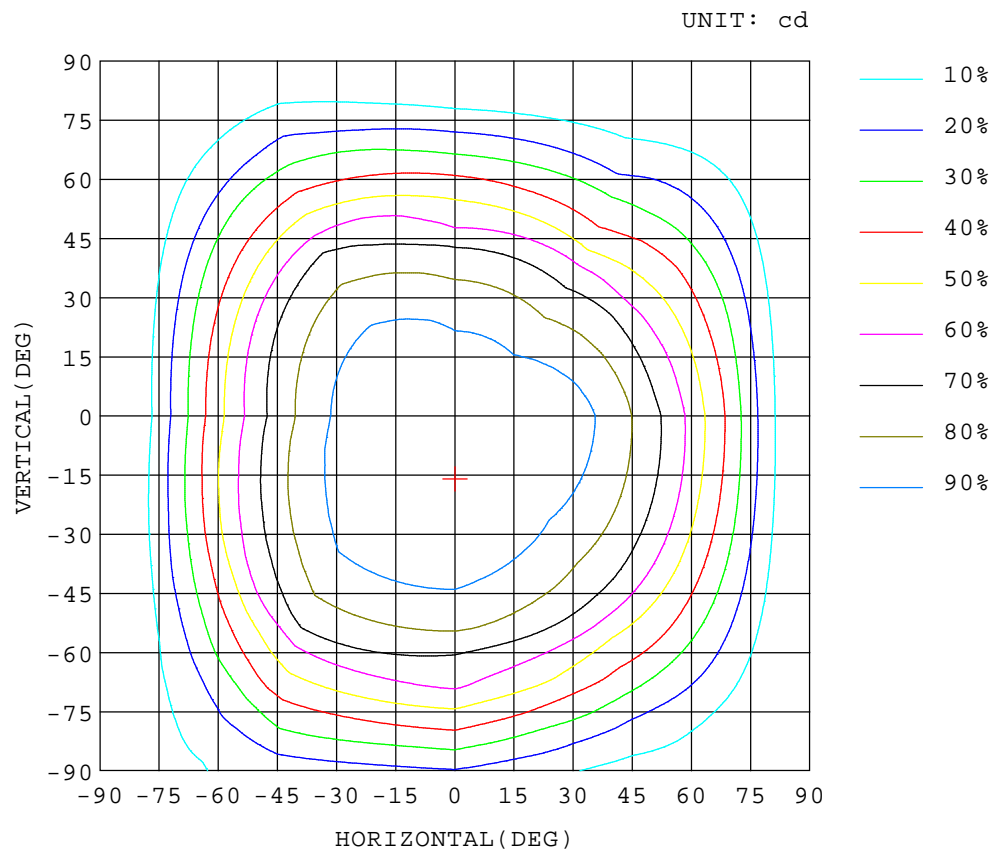
Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2021年11月30日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity: 65.0%
 Test Distance: 8.800 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 47-RS-5050-24-112-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211130008



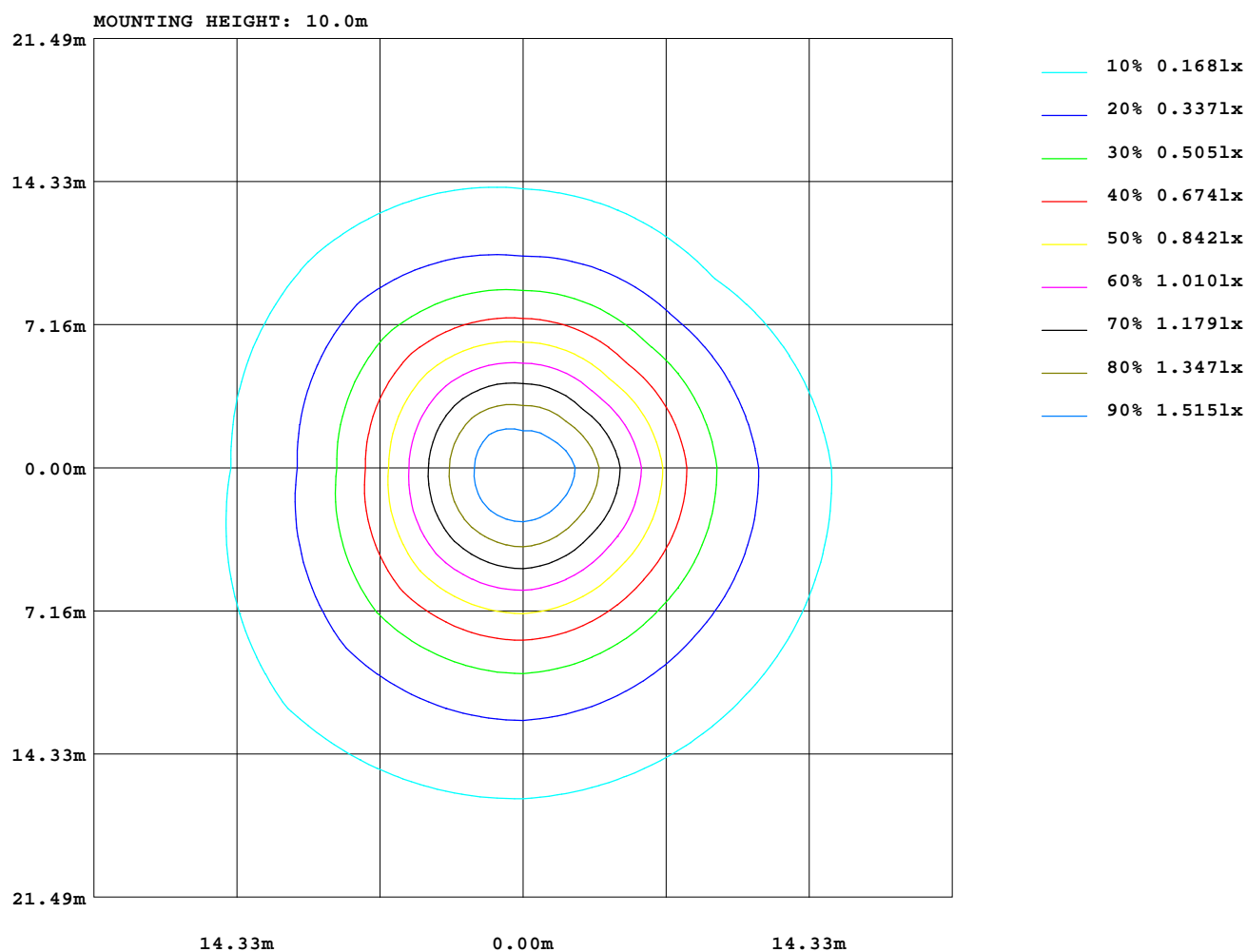
Test System: HOPOO HPG1800
Temperature: 25.3 DEG
Operators:
Test Date: 2021年11月30日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.800 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 47-RS-5050-24-112-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211130008



Test System: HOPOO HPG1800
Temperature: 25.3DEG
Operators:
Test Date: 2021年11月30日

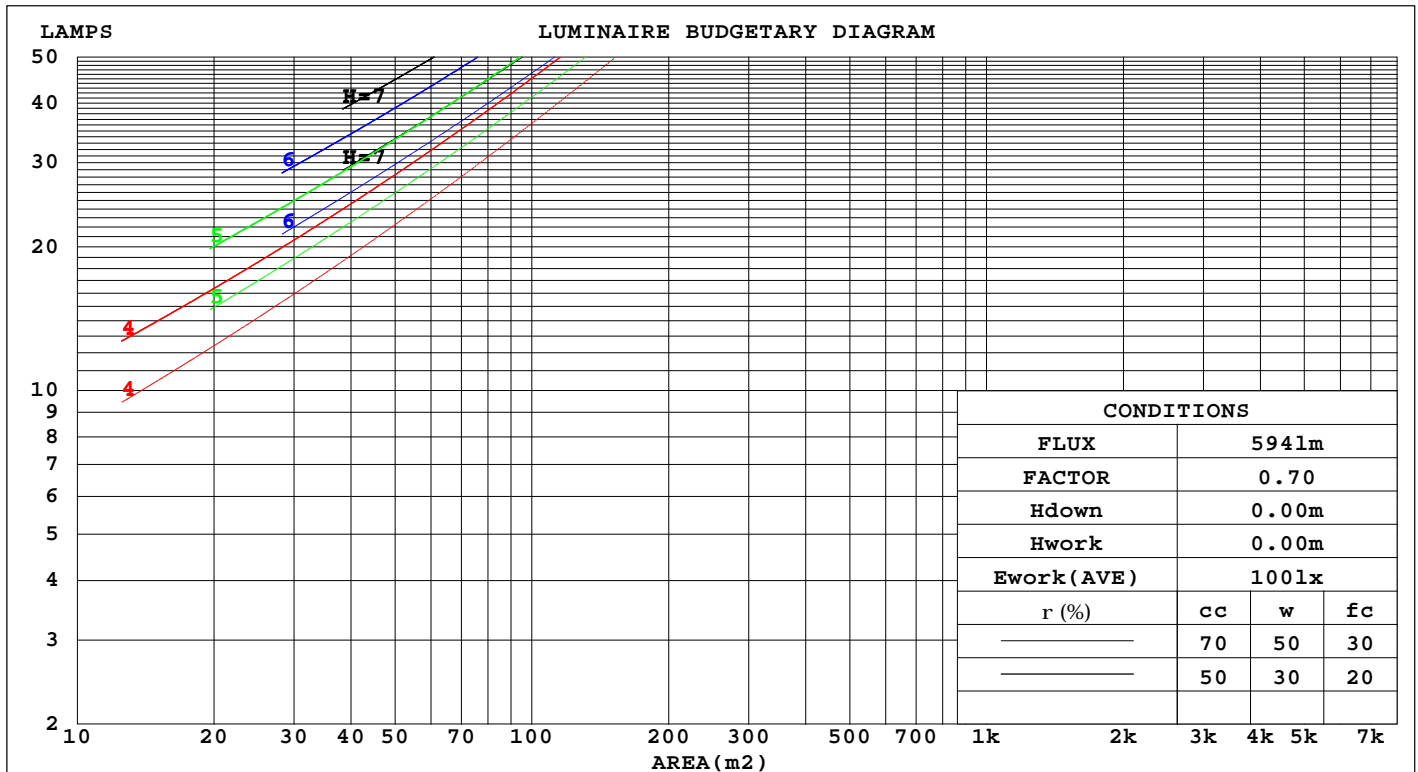
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.800 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 47-RS-5050-24-112-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211130008

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.03	1.03	1.03	.98	.98	.98	.96
1.0	1.02	.97	.93	.99	.95	.91	.94	.90	.87	.89	.86	.84	.85	.82	.80	.78
2.0	.88	.80	.74	.85	.79	.73	.81	.76	.71	.77	.73	.68	.73	.70	.66	.64
3.0	.76	.68	.61	.75	.67	.60	.71	.64	.59	.68	.62	.57	.64	.60	.55	.53
4.0	.67	.58	.51	.66	.57	.51	.63	.55	.49	.60	.53	.48	.57	.52	.47	.45
5.0	.60	.51	.44	.58	.50	.43	.56	.48	.42	.53	.47	.41	.51	.45	.41	.38
6.0	.54	.44	.38	.52	.44	.37	.50	.42	.37	.48	.41	.36	.46	.40	.35	.33
7.0	.48	.39	.33	.47	.39	.33	.45	.38	.32	.44	.37	.32	.42	.36	.31	.29
8.0	.44	.35	.29	.43	.35	.29	.41	.34	.29	.40	.33	.28	.38	.32	.28	.26
9.0	.40	.32	.26	.40	.32	.26	.38	.31	.26	.37	.30	.25	.35	.29	.25	.23
10.0	.37	.29	.24	.36	.29	.24	.35	.28	.23	.34	.27	.23	.33	.27	.23	.21



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年11月30日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

WEC AND CCEC

Report number:

MANUFACTURER:											
Address:											
NAME: 47-RS-5050-24-112-12-X-Y RGB						TYPE: LED Strip			WEIGHT:		
SPECIFICATION: 5050 112D			CCT(K): 0			DIMENSION: 1M*0.012M			SERIAL No.: 20211130008		

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.335	.191	.060	.327	.186	.059	.311	.178	.057	.296	.171	.055	.283	.164	.053	
2.0	.308	.169	.052	.301	.166	.051	.286	.159	.049	.273	.153	.048	.261	.148	.047	
3.0	.282	.150	.045	.275	.147	.044	.262	.142	.043	.251	.137	.042	.240	.133	.041	
4.0	.258	.134	.039	.252	.132	.039	.241	.128	.038	.230	.124	.037	.221	.120	.037	
5.0	.237	.121	.035	.232	.119	.035	.222	.116	.034	.212	.112	.033	.204	.109	.033	
6.0	.219	.110	.031	.214	.108	.031	.205	.105	.031	.197	.102	.030	.189	.099	.030	
7.0	.203	.101	.029	.199	.099	.028	.191	.096	.028	.183	.094	.027	.176	.091	.027	
8.0	.189	.093	.026	.186	.091	.026	.178	.089	.025	.171	.087	.025	.165	.085	.025	
9.0	.177	.086	.024	.174	.085	.024	.167	.083	.023	.161	.080	.023	.155	.079	.023	
10.0	.166	.080	.022	.163	.079	.022	.157	.077	.022	.151	.075	.021	.146	.073	.021	

rcc	80%			70%			50%			30%			10%			0	
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
r fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.224	.224	.224	.191	.191	.191	.130	.130	.130	.075	.075	.075	.024	.024	.024		
1.0	.215	.189	.166	.184	.162	.143	.126	.112	.099	.073	.065	.057	.023	.021	.019		
2.0	.208	.165	.130	.178	.142	.112	.122	.098	.078	.070	.057	.046	.023	.019	.015		
3.0	.200	.148	.106	.172	.128	.092	.118	.089	.065	.068	.052	.038	.022	.017	.012		
4.0	.193	.135	.091	.166	.117	.079	.114	.081	.056	.066	.048	.033	.021	.016	.011		
5.0	.185	.125	.080	.159	.108	.070	.110	.075	.049	.064	.044	.029	.020	.014	.010		
6.0	.178	.117	.072	.153	.101	.063	.106	.071	.045	.061	.042	.027	.020	.014	.009		
7.0	.171	.110	.067	.147	.095	.058	.102	.067	.041	.059	.039	.025	.019	.013	.008		
8.0	.165	.104	.062	.142	.090	.054	.098	.063	.039	.057	.037	.023	.018	.012	.008		
9.0	.159	.099	.059	.137	.086	.052	.095	.061	.037	.055	.036	.022	.018	.012	.007		
10.0	.153	.095	.057	.132	.082	.049	.091	.058	.035	.053	.034	.021	.017	.011	.007		

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年11月30日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.800 m
Remarks:

GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR Table

Report number:

MANUFACTURER:										
Address:										
NAME: 47-RS-5050-24-112-12-X-Y RGB					TYPE: LED Strip			WEIGHT:		
SPECIFICATION: 5050 112D		CCT(K): 0			DIMENSION: 1M*0.012M			SERIAL No.: 20211130008		
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	15.3	16.8	15.7	17.1	17.4	16.2	17.7	16.5	18.0	18.2
3H	17.0	18.4	17.3	18.7	19.0	18.5	19.9	18.8	20.2	20.5
4H	17.6	18.9	18.0	19.2	19.6	19.6	21.0	20.0	21.3	21.6
6H	17.9	19.2	18.3	19.6	19.9	20.8	22.0	21.2	22.4	22.8
8H	18.0	19.2	18.4	19.6	20.0	21.4	22.6	21.8	23.0	23.3
12H	18.0	19.2	18.4	19.6	20.0	22.0	23.2	22.4	23.5	23.9
4H 2H	16.1	17.4	16.4	17.7	18.1	16.7	18.0	17.1	18.4	18.7
3H	17.9	19.1	18.3	19.4	19.8	19.2	20.3	19.6	20.7	21.1
4H	18.7	19.7	19.1	20.1	20.5	20.5	21.5	20.9	21.9	22.4
6H	19.2	20.1	19.6	20.5	21.0	21.8	22.8	22.3	23.2	23.7
8H	19.3	20.2	19.8	20.6	21.1	22.5	23.4	23.0	23.9	24.3
12H	19.3	20.1	19.8	20.6	21.1	23.3	24.1	23.8	24.5	25.0
8H 4H	19.1	20.0	19.6	20.5	20.9	20.7	21.6	21.2	22.0	22.5
6H	19.8	20.6	20.3	21.0	21.6	22.2	23.0	22.8	23.5	24.0
8H	20.1	20.7	20.6	21.2	21.8	23.1	23.7	23.6	24.3	24.8
12H	20.2	20.7	20.7	21.3	21.8	24.0	24.6	24.6	25.1	25.7
12H 4H	19.2	20.0	19.7	20.5	21.0	20.7	21.5	21.2	22.0	22.5
6H	20.0	20.7	20.5	21.2	21.7	22.3	23.0	22.8	23.5	24.0
8H	20.3	20.9	20.9	21.4	22.0	23.2	23.8	23.7	24.3	24.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
2.0H	+ 0.2 / - 0.4					+ 0.1 / - 0.2				

CIE Pub.117 Corrected 593.5 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.8)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年11月30日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

UTILIZATION FACTORS TABLE

Report number:

MANUFACTURER:			
Address:			
NAME: 47-RS-5050-24-112-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211130008

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	41	34	52	41	34	27
0.80	64	52	44	63	51	44	60	50	43	36
1.00	72	60	53	71	60	52	68	61	52	44
1.25	79	68	60	78	67	60	74	65	59	51
1.50	84	74	66	83	73	66	79	71	64	56
2.00	92	82	75	89	81	74	85	78	72	63
2.50	96	87	81	93	86	79	89	82	77	68
3.00	99	92	86	97	90	84	92	86	82	72
4.00	104	97	92	101	95	90	96	91	87	77
5.00	106	101	96	103	98	94	98	94	91	80
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

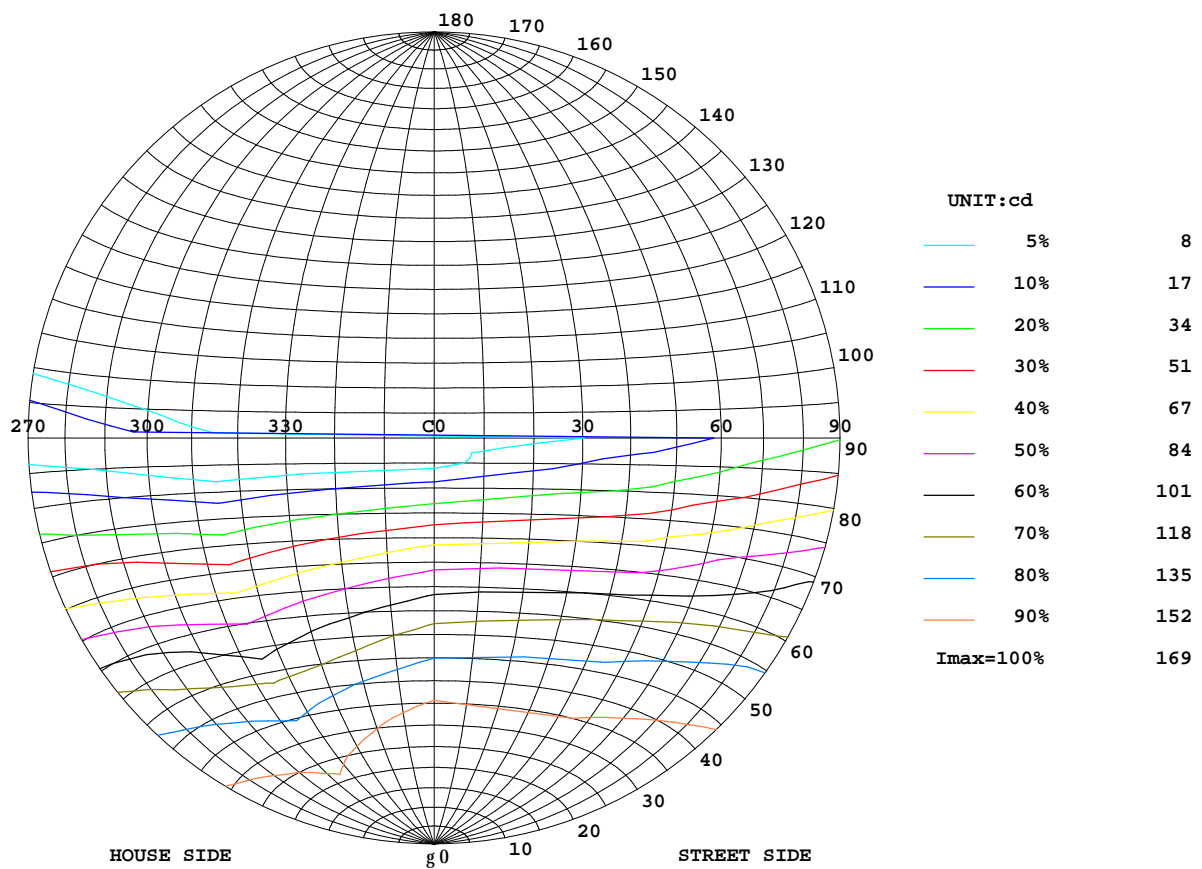
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年11月30日

Test Set: 8.0deg/s C-Gamma (TYPE C)
 Humidity:65.0%
 Test Distance:8.800 m
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 47-RS-5050-24-112-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211130008



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年11月30日

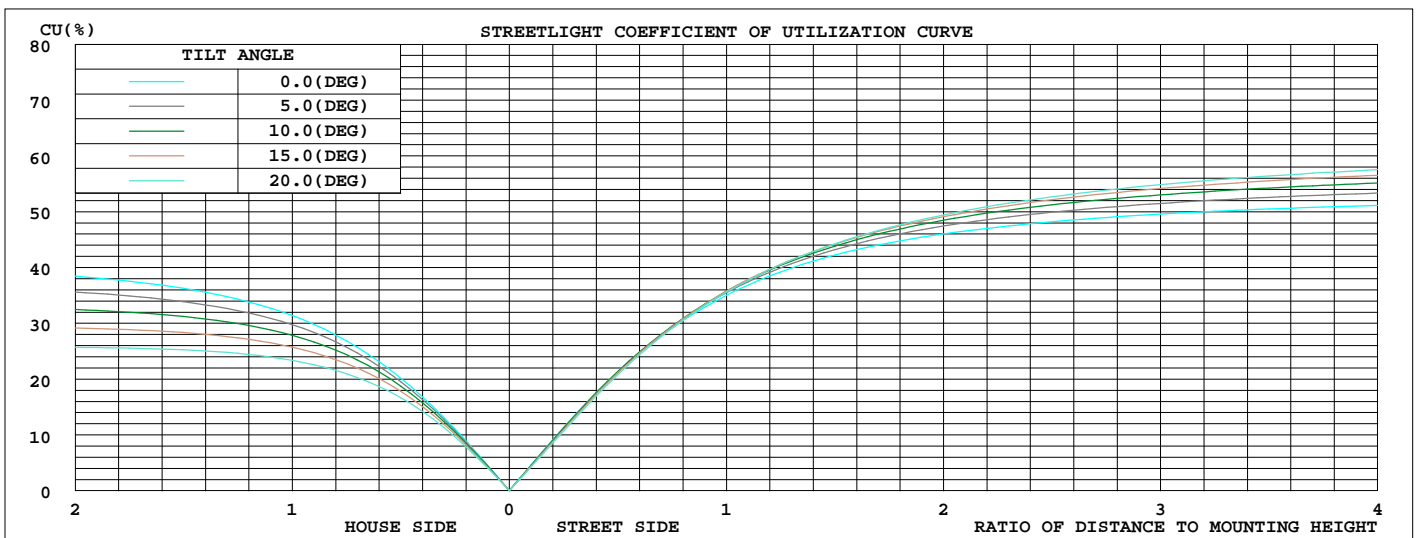
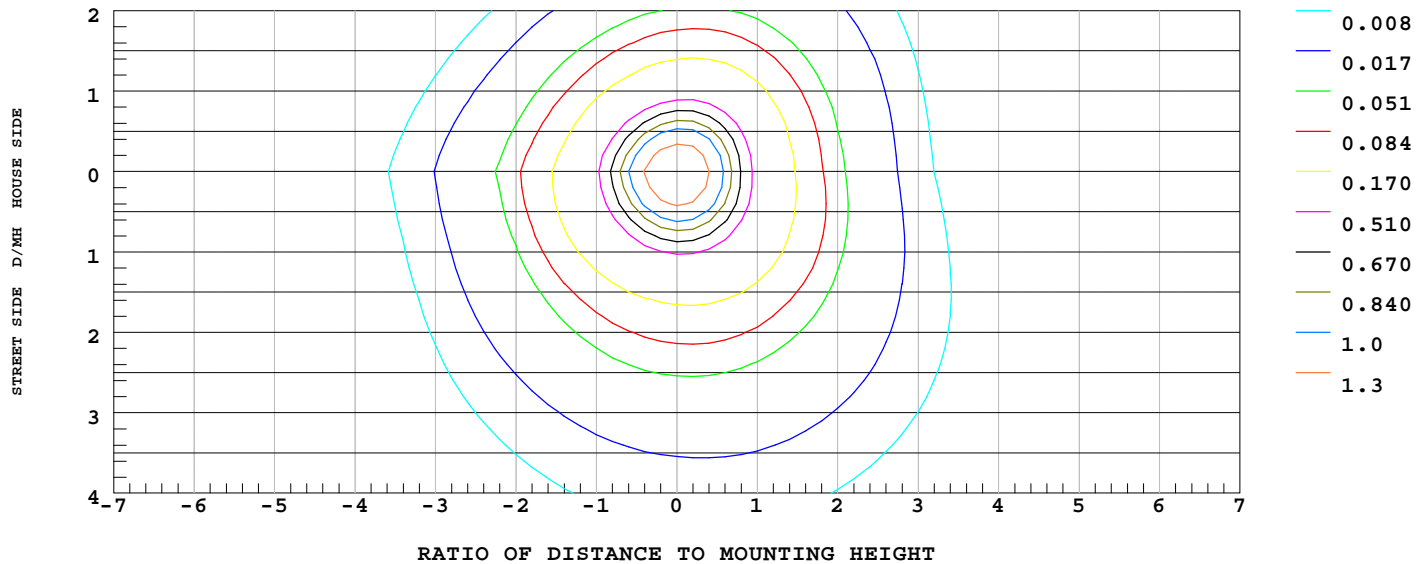
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.800 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 47-RS-5050-24-112-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211130008

ILLUMINANCE AT MH=10 m, Enadir = 1.68 lx



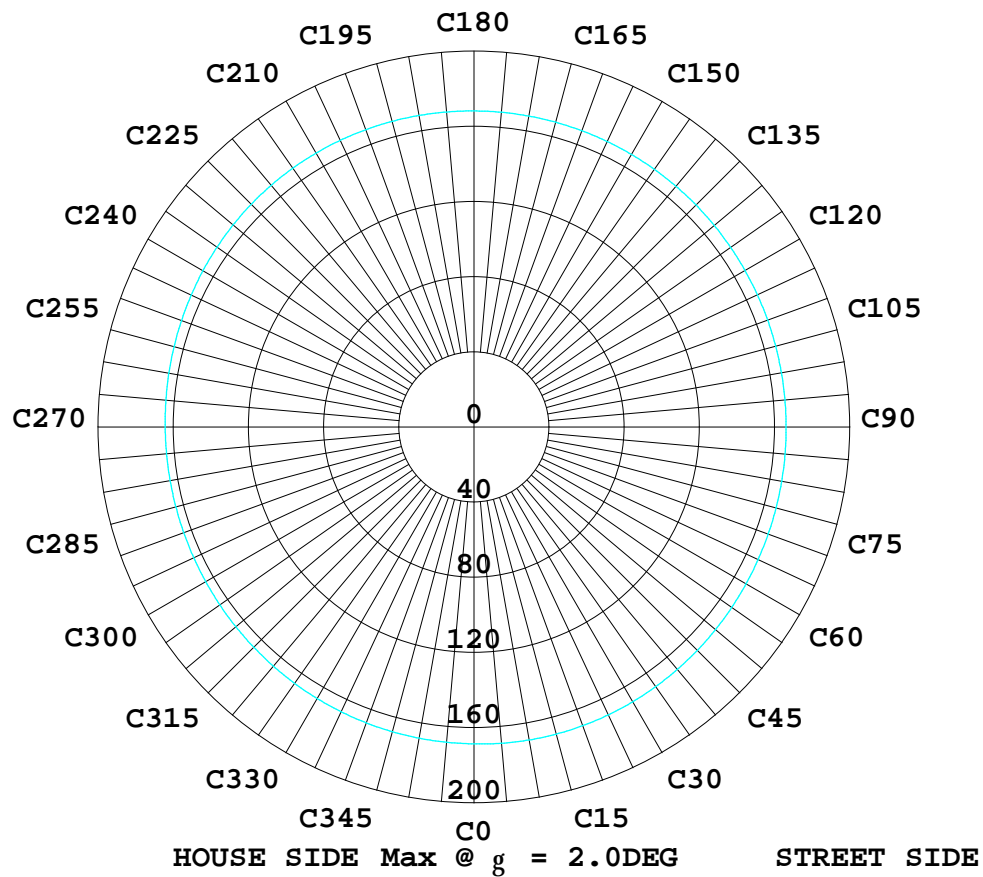
Test System: HOPOO HPG1800
Temperature: 25.3 DEG
Operators:
Test Date: 2021年11月30日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.800 m
Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 47-RS-5050-24-112-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211130008



Test System: HOPOO HPG1800
Temperature: 25.3DEG
Operators:
Test Date: 2021年11月30日

Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.800 m
Remarks: