

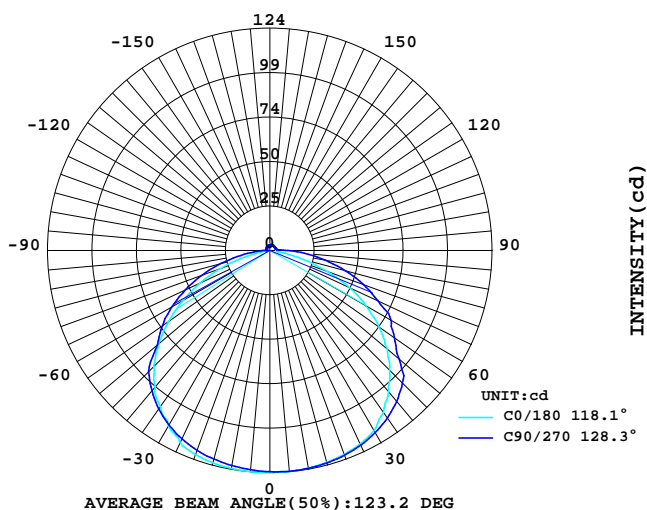
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

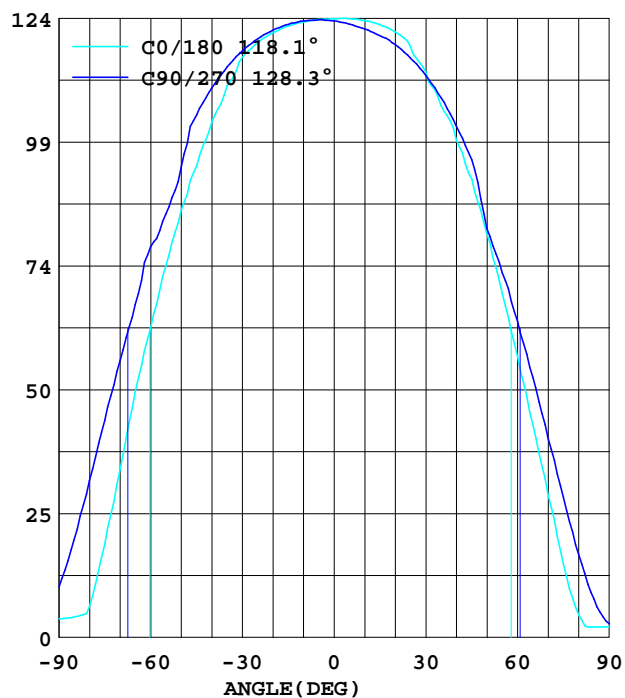
MANUFACTURER:			
Address:			
NAME: 46-RS-5050-24-60-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 60D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211129015

DATA OF LAMP		I _{max} (cd)	123.9	S/MH(C0/180)	1.38
MODEL	5050	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.42
NOMINAL POWER(W)	12	TOTAL FLUX(lm)	432.30	Voltage(V)	23.96
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	34.4	Current(A)	0.524
NOMINAL FLUX(lm)	432.3	h up(%)	4.4	Power(W)	12.56
LAMPS QUANTITY	1	h down(%)	95.6	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effective Flux(lm)	408.2	EEL	0.332

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年11月29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: 46-RS-5050-24-60-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 60D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211129015

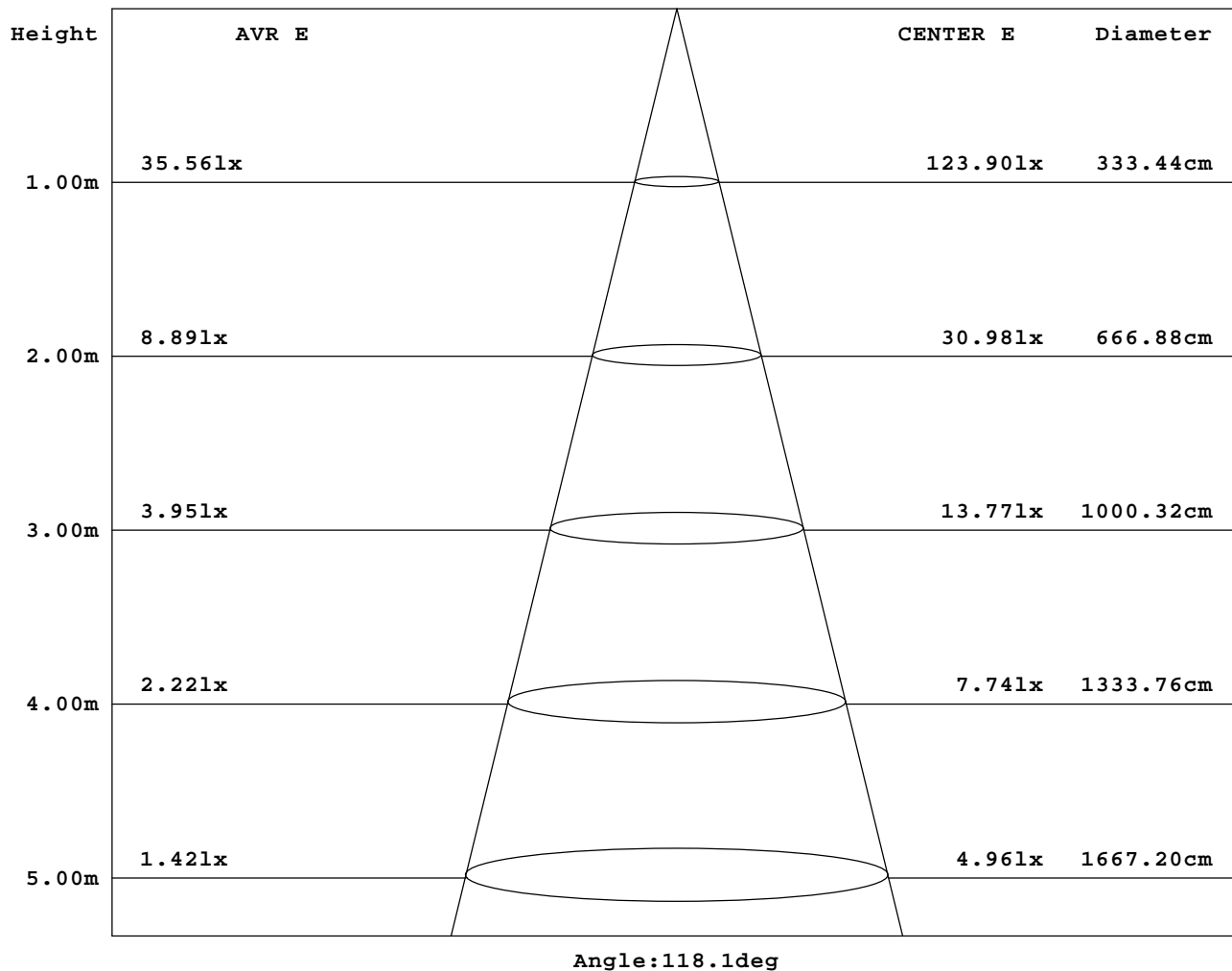
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年11月29日

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: 46-RS-5050-24-60-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 60D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211129015



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021年11月29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: 46-RS-5050-24-60-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 60D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211129015

g	C0	C45	C90	C135	C180	C225	C270	C315	g	4one	tBtal
5.0	123.7	123.2	123.6	123.5	123.9	123.9	122.8	123.1	0- 5	2.955	2.955
10.0	123.2	122.2	123.4	123.3	123.5	123.9	121.8	122.5	5- 10	8.818	11.77
15.0	122.4	120.8	122.7	122.6	122.6	123.3	120.4	121.4	10- 15	14.53	26.31
20.0	121.1	118.9	121.5	121.5	121.1	122.3	118.7	119.7	15- 20	20.00	46.32
25.0	119.1	116.3	119.8	119.9	118.3	120.8	116.0	117.3	20- 25	25.08	71.40
30.0	116.1	112.9	117.3	117.5	113.2	118.3	112.5	114.2	25- 30	29.58	100.9
35.0	110.4	108.5	114.2	114.3	106.4	114.9	108.0	110.0	30- 35	33.30	134.2
40.0	103.1	103.2	109.9	110.1	99.51	110.4	102.2	105.0	35- 40	36.12	170.4
45.0	94.39	96.41	104.6	104.6	91.76	104.5	95.63	98.42	40- 45	37.83	208.2
50.0	85.57	88.51	94.24	97.88	80.84	97.03	81.85	87.81	45- 50	38.07	246.3
55.0	74.41	77.98	84.79	89.67	68.84	88.35	73.02	75.73	50- 55	36.60	282.9
60.0	61.87	63.26	78.21	74.34	56.14	71.70	63.26	63.26	55- 60	33.67	316.6
65.0	49.17	52.58	66.67	62.41	42.59	59.00	52.03	52.27	60- 65	29.45	346.0
70.0	33.68	40.50	55.44	51.18	28.65	45.61	39.95	41.35	65- 70	24.38	370.4
75.0	18.66	28.80	43.44	39.33	14.71	32.98	28.11	28.57	70- 75	18.76	389.2
80.0	6.195	18.19	31.44	26.56	4.491	22.22	16.57	19.05	75- 80	12.53	401.7
85.0	4.104	9.834	19.59	16.03	2.090	12.93	7.666	9.602	80- 85	7.579	409.3
90.0	3.717	3.562	10.06	6.892	2.168	5.730	2.710	4.568	85- 90	3.982	413.3
95.0	3.562	2.013	5.265	2.710	2.245	3.872	1.936	3.794	90- 95	2.091	415.4
100.0	3.407	2.013	3.872	2.090	2.323	3.639	2.013	3.717	95-100	1.625	417.0
105.0	3.329	2.090	3.407	2.090	2.400	3.562	2.090	3.639	100-105	1.519	418.5
110.0	3.329	2.168	3.252	2.090	2.478	3.484	2.168	3.562	105-110	1.477	420.0
115.0	3.329	2.245	3.252	2.168	2.555	3.407	2.245	3.484	110-115	1.431	421.4
120.0	3.329	2.323	3.175	2.245	2.632	3.329	2.323	3.407	115-120	1.379	422.8
125.0	3.252	2.400	3.175	2.245	2.787	3.329	2.400	3.407	120-125	1.322	424.1
130.0	3.329	2.478	3.175	2.323	2.865	3.329	2.478	3.407	125-130	1.263	425.4
135.0	3.329	2.555	3.175	2.478	2.942	3.407	2.555	3.407	130-135	1.192	426.6
140.0	3.329	2.632	3.175	2.555	3.020	3.407	2.632	3.407	135-140	1.110	427.7
145.0	3.329	2.710	3.252	2.632	3.097	3.407	2.710	3.407	140-145	1.015	428.7
150.0	3.407	2.787	3.252	2.632	3.175	3.407	2.787	3.407	145-150	0.911	429.6
155.0	3.407	2.865	3.252	2.710	3.252	3.407	2.865	3.407	150-155	0.790	430.4
160.0	3.407	2.865	3.252	2.787	3.252	3.407	2.865	3.407	155-160	0.661	431.1
165.0	3.407	2.942	3.252	2.865	3.329	3.407	2.942	3.407	160-165	0.523	431.6
170.0	3.407	2.942	3.329	2.865	3.329	3.329	2.942	3.329	165-170	0.379	432.0
175.0	3.407	3.020	3.329	2.942	3.407	3.329	2.942	3.329	170-175	0.229	432.2
180.0	3.407	3.097	3.252	3.020	3.562	3.329	3.020	3.252	175-180	0.077	432.3
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年11月29日

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

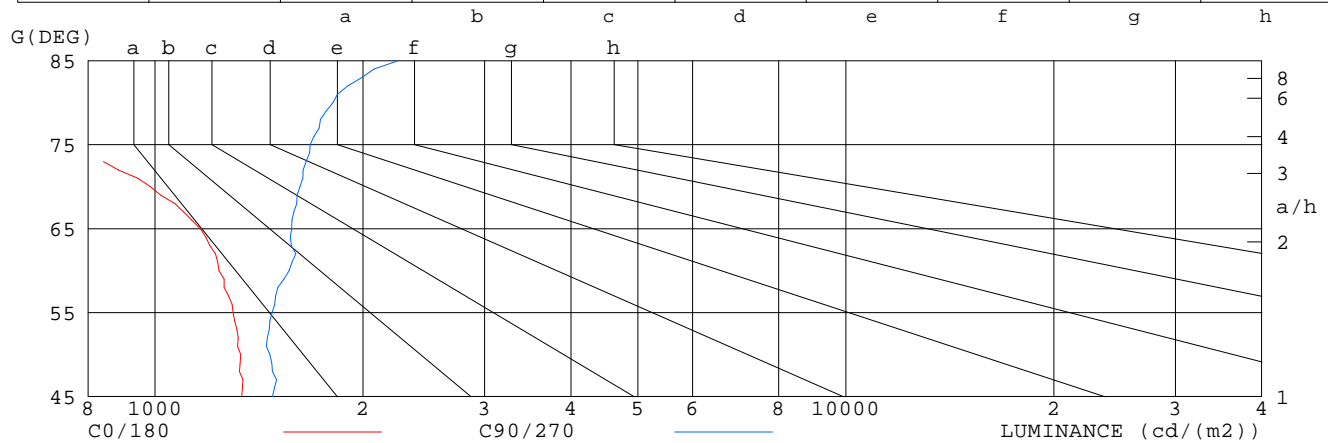
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME: 46-RS-5050-24-60-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 60D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211129015

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	471	2248
80	357	1811
75	721	1679
70	985	1621
65	1164	1578
60	1237	1564
55	1297	1478
50	1331	1466
45	1335	1480

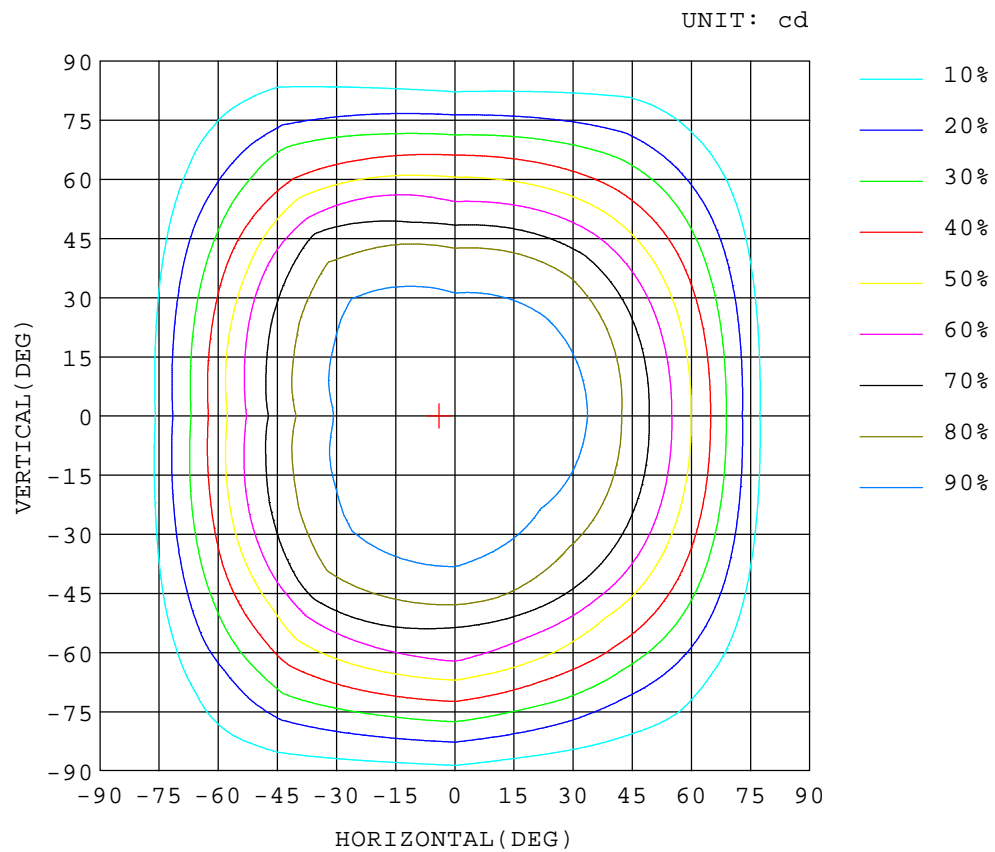
Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2021年11月29日

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: 46-RS-5050-24-60-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 60D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211129015



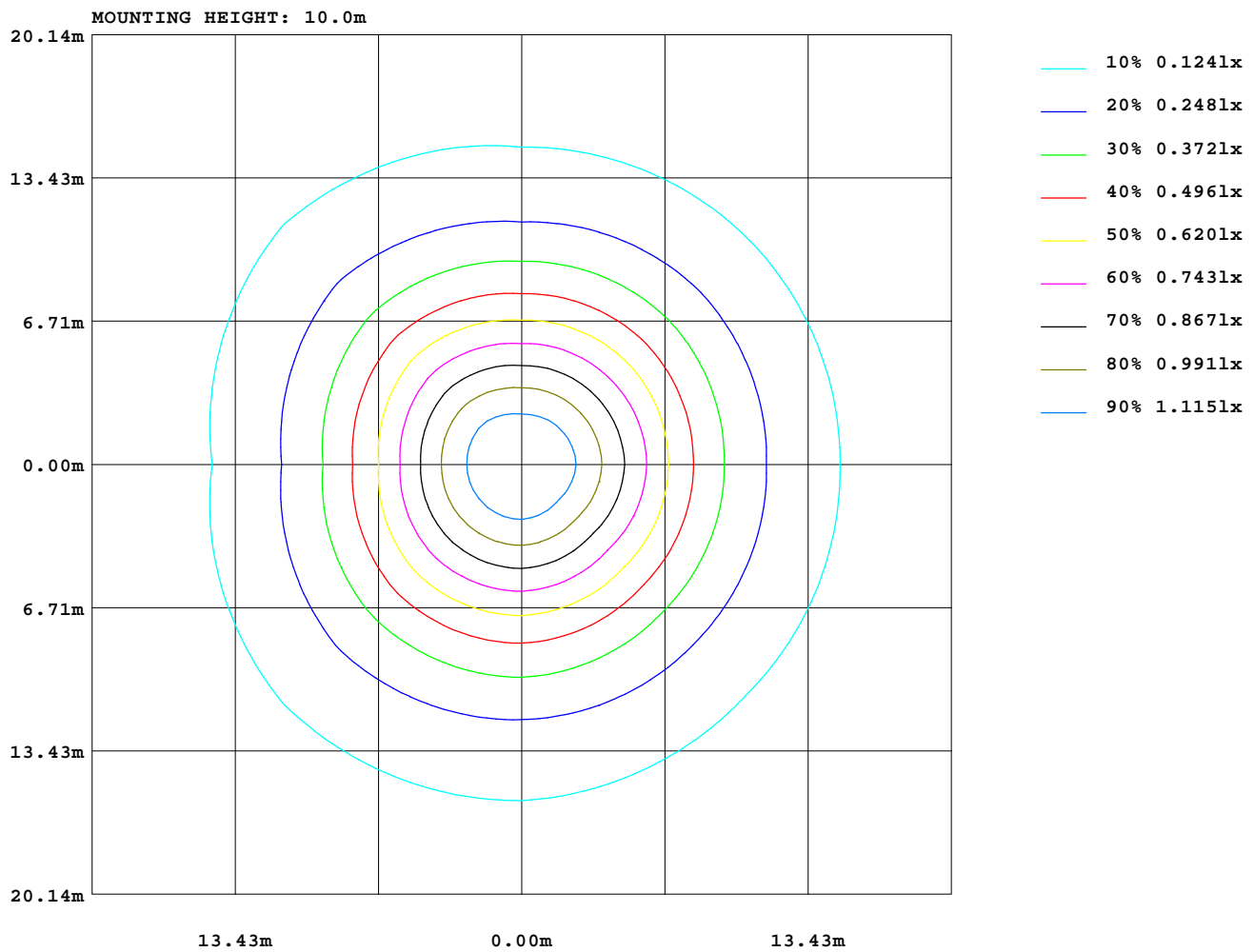
Test System: HOPOO HPG1800
Temperature: 25.3 DEG
Operators:
Test Date: 2021年11月29日

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: 46-RS-5050-24-60-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 60D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211129015



Test System: HOPOO HPG1800
Temperature: 25.3DEG
Operators:
Test Date: 2021年11月29日

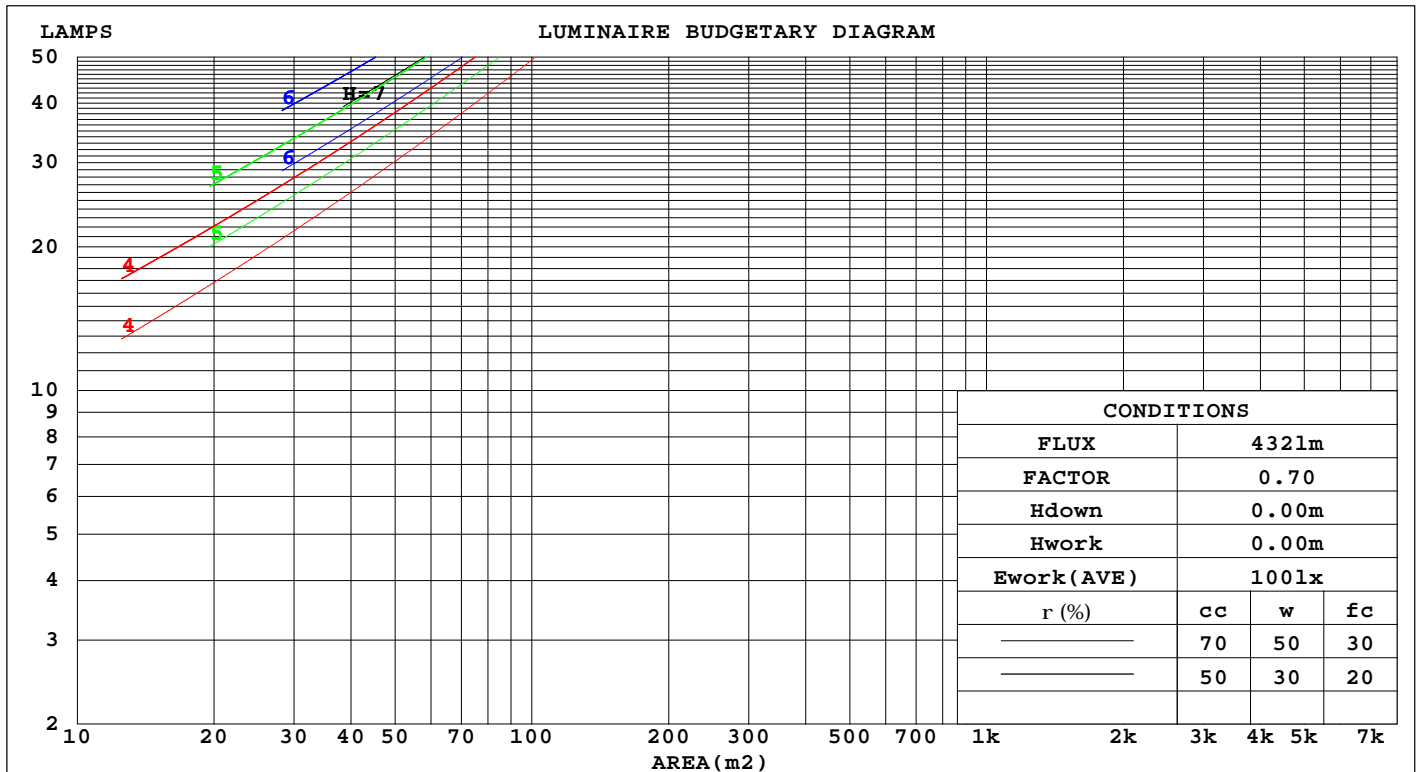
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.800 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 46-RS-5050-24-60-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 60D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211129015

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	.98	.94	.99	.95	.92	.94	.91	.88	.90	.87	.84	.85	.83	.81	.79
2.0	.88	.81	.75	.86	.80	.74	.82	.76	.72	.78	.73	.69	.74	.71	.67	.65
3.0	.77	.69	.62	.75	.68	.61	.72	.65	.60	.68	.63	.58	.65	.60	.56	.54
4.0	.68	.59	.52	.66	.58	.52	.63	.56	.50	.60	.54	.49	.58	.52	.48	.46
5.0	.61	.51	.45	.59	.51	.44	.57	.49	.43	.54	.47	.42	.52	.46	.41	.39
6.0	.54	.45	.39	.53	.44	.38	.51	.43	.38	.49	.42	.37	.47	.41	.36	.34
7.0	.49	.40	.34	.48	.40	.34	.46	.38	.33	.44	.37	.32	.42	.36	.32	.30
8.0	.45	.36	.30	.44	.35	.30	.42	.35	.29	.40	.34	.29	.39	.33	.28	.26
9.0	.41	.32	.27	.40	.32	.27	.39	.31	.26	.37	.31	.26	.36	.30	.25	.24
10.0	.38	.30	.24	.37	.29	.24	.36	.29	.24	.34	.28	.23	.33	.27	.23	.21



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年11月29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: 46-RS-5050-24-60-12-X-Y RGB						TYPE: LED Strip			WEIGHT:		
SPECIFICATION: 5050 60D			CCT(K): 0			DIMENSION: 1M*0.012M			SERIAL No.: 20211129015		

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.324	.184	.058	.315	.180	.057	.299	.172	.055	.285	.164	.053	.271	.157	.051	
2.0	.301	.165	.051	.293	.162	.050	.279	.155	.048	.266	.149	.047	.254	.144	.045	
3.0	.277	.147	.044	.270	.145	.044	.258	.140	.042	.246	.135	.041	.235	.130	.040	
4.0	.255	.132	.039	.249	.130	.038	.237	.126	.038	.227	.122	.037	.217	.118	.036	
5.0	.235	.120	.035	.229	.118	.034	.219	.114	.034	.210	.111	.033	.201	.107	.032	
6.0	.217	.109	.031	.212	.107	.031	.203	.104	.030	.195	.101	.030	.187	.098	.029	
7.0	.202	.100	.028	.197	.098	.028	.189	.096	.028	.182	.093	.027	.174	.091	.027	
8.0	.188	.092	.026	.184	.091	.026	.177	.088	.025	.170	.086	.025	.163	.084	.024	
9.0	.176	.085	.024	.173	.084	.024	.166	.082	.023	.160	.080	.023	.154	.078	.023	
10.0	.165	.079	.022	.162	.078	.022	.156	.076	.022	.150	.075	.021	.145	.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	
rfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.224	.224	.224	.191	.191	.191	.131	.131	.131	.075	.075	.075	.024	.024	.024		
1.0	.215	.190	.167	.184	.163	.144	.126	.112	.099	.072	.065	.058	.023	.021	.019		
2.0	.207	.166	.131	.178	.143	.113	.122	.099	.079	.070	.057	.046	.023	.019	.015		
3.0	.200	.149	.108	.171	.128	.093	.118	.089	.065	.068	.052	.039	.022	.017	.013		
4.0	.192	.135	.092	.165	.117	.080	.114	.082	.056	.066	.048	.033	.021	.016	.011		
5.0	.185	.125	.081	.159	.108	.070	.110	.076	.050	.063	.044	.030	.020	.014	.010		
6.0	.178	.117	.073	.153	.101	.064	.106	.071	.045	.061	.042	.027	.020	.014	.009		
7.0	.171	.110	.067	.147	.095	.059	.102	.067	.042	.059	.039	.025	.019	.013	.008		
8.0	.165	.104	.063	.142	.091	.055	.098	.064	.039	.057	.038	.023	.018	.012	.008		
9.0	.159	.100	.060	.137	.086	.052	.095	.061	.037	.055	.036	.022	.018	.012	.007		
10.0	.153	.095	.057	.132	.083	.050	.091	.058	.035	.053	.034	.021	.017	.011	.007		

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年11月29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: 46-RS-5050-24-60-12-X-Y RGB					TYPE: LED Strip			WEIGHT:		
SPECIFICATION: 5050 60D		CCT(K): 0			DIMENSION: 1M*0.012M			SERIAL No.: 20211129015		
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	13.5	15.0	13.9	15.3	15.6	14.3	15.8	14.6	16.0	16.3
	14.8	16.2	15.2	16.5	16.9	16.2	17.6	16.6	17.9	18.2
	15.2	16.5	15.6	16.8	17.2	17.1	18.4	17.5	18.8	19.1
	15.3	16.5	15.7	16.9	17.2	17.9	19.2	18.3	19.5	19.9
	15.3	16.5	15.7	16.8	17.2	18.3	19.5	18.7	19.8	20.2
	15.3	16.4	15.7	16.8	17.2	18.6	19.8	19.0	20.2	20.6
4H	2H	14.2	15.5	14.5	15.8	16.2	14.8	16.1	15.1	16.4
	3H	15.7	16.8	16.1	17.2	17.6	16.9	18.0	17.3	18.4
	4H	16.1	17.2	16.6	17.6	18.0	17.9	18.9	18.3	19.3
	6H	16.3	17.3	16.8	17.7	18.2	18.9	19.8	19.3	20.2
	8H	16.4	17.2	16.8	17.7	18.1	19.3	20.2	19.8	20.6
	12H	16.4	17.2	16.9	17.6	18.1	19.7	20.5	20.2	21.0
8H	4H	16.5	17.4	17.0	17.8	18.3	18.0	18.9	18.5	19.4
	6H	16.8	17.6	17.3	18.0	18.6	19.2	19.9	19.7	20.4
	8H	16.9	17.6	17.5	18.1	18.6	19.8	20.4	20.3	20.9
	12H	17.0	17.6	17.6	18.1	18.7	20.3	20.9	20.9	21.4
12H	4H	16.5	17.3	17.0	17.8	18.3	18.0	18.8	18.5	19.3
	6H	17.0	17.6	17.5	18.1	18.7	19.2	19.8	19.7	20.3
	8H	17.1	17.7	17.7	18.2	18.8	19.8	20.4	20.4	20.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.4					+ 0.1 / - 0.2				
2.0H	+ 0.2 / - 0.4					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 432.3 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.9)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年11月29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: 46-RS-5050-24-60-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 60D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211129015

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	45	63	52	44	61	51	44	37
1.00	73	61	54	71	61	53	69	62	52	45
1.25	80	69	62	78	68	61	75	66	60	52
1.50	85	75	67	83	74	67	80	71	65	57
2.00	92	83	76	90	82	75	86	79	74	65
2.50	96	88	82	94	86	81	90	83	78	69
3.00	100	93	87	97	91	85	93	87	83	73
4.00	104	98	93	101	96	91	96	92	88	78
5.00	107	101	97	104	99	95	99	95	91	81
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

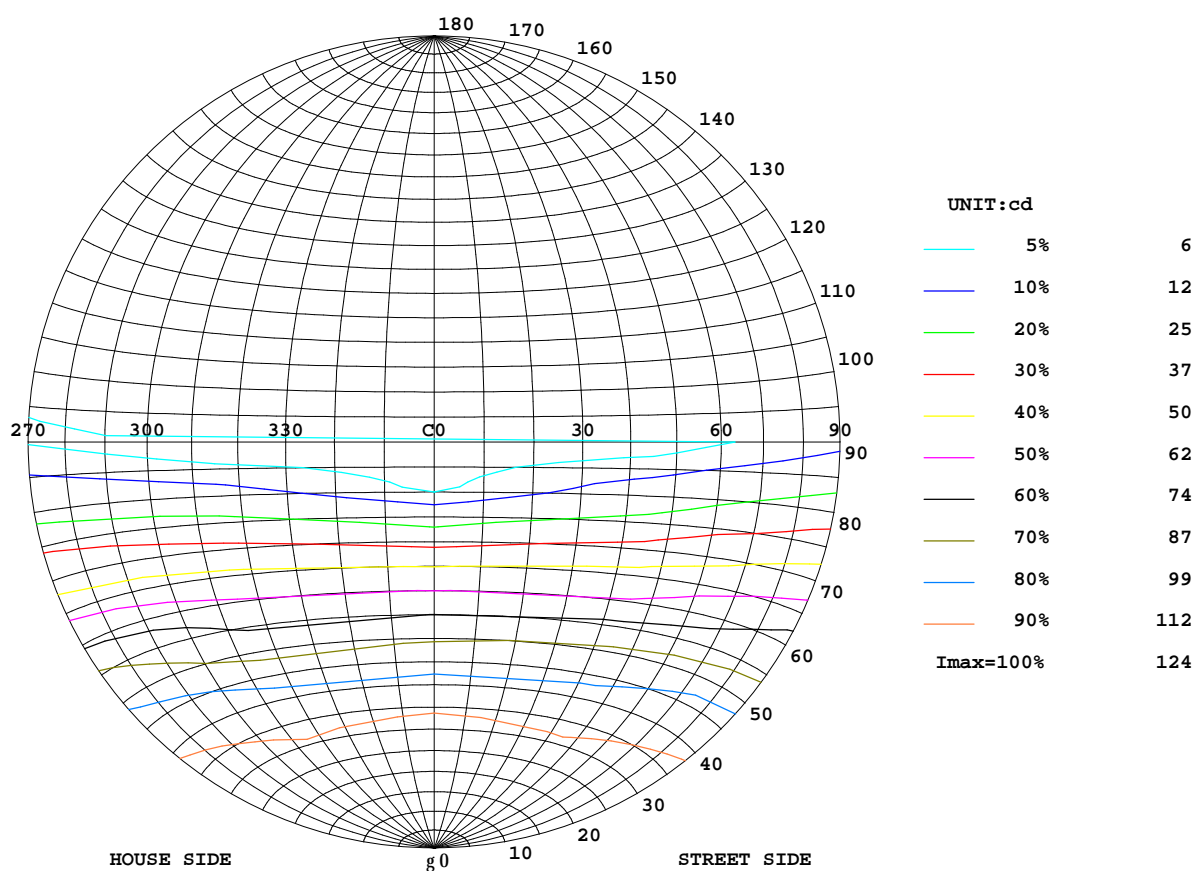
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年11月29日

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: 46-RS-5050-24-60-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 60D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211129015



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年11月29日

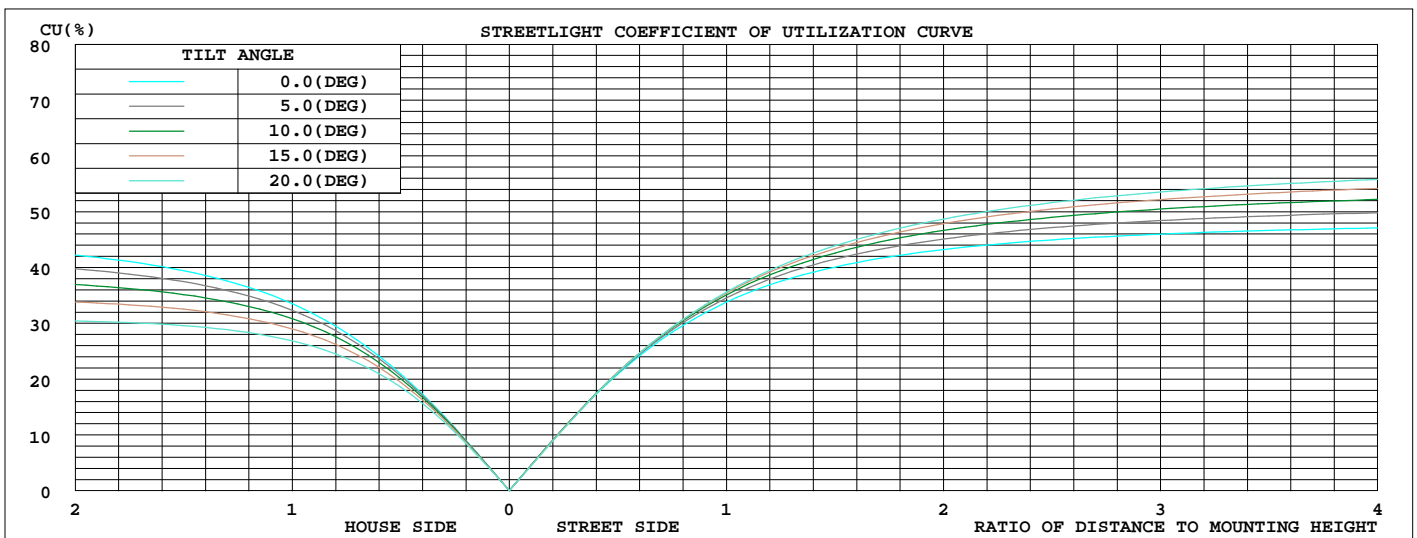
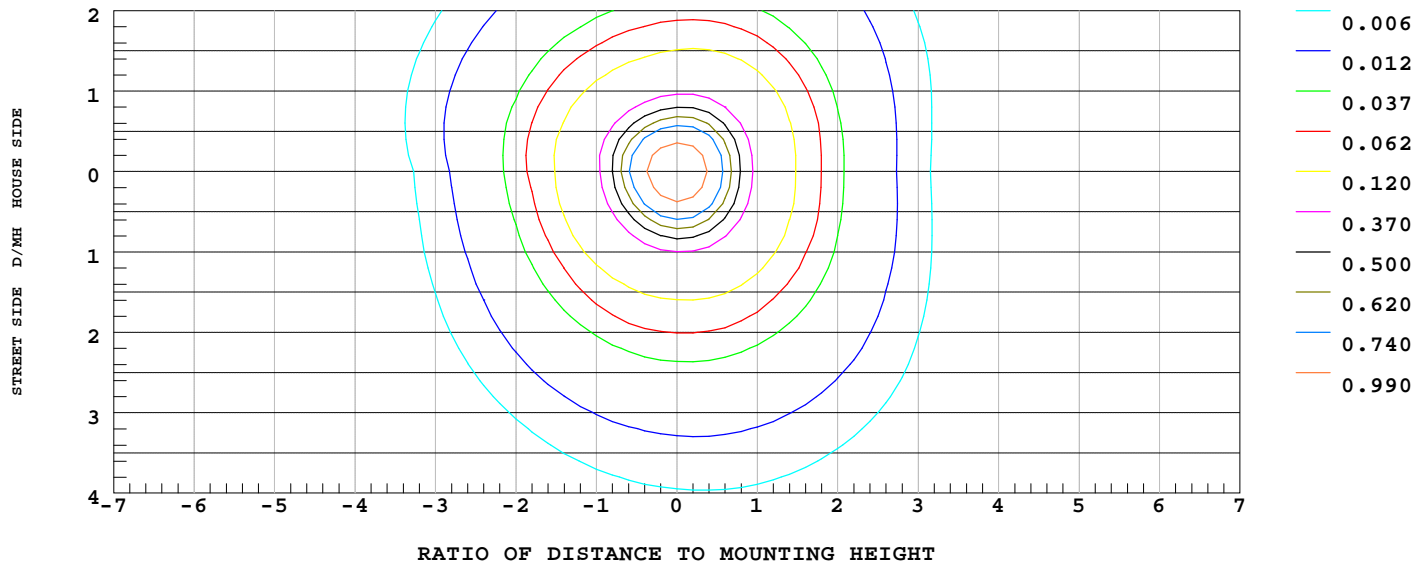
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.800 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 46-RS-5050-24-60-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 60D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211129015

ILLUMINANCE AT MH=10 m, Enadir = 1.24 lx



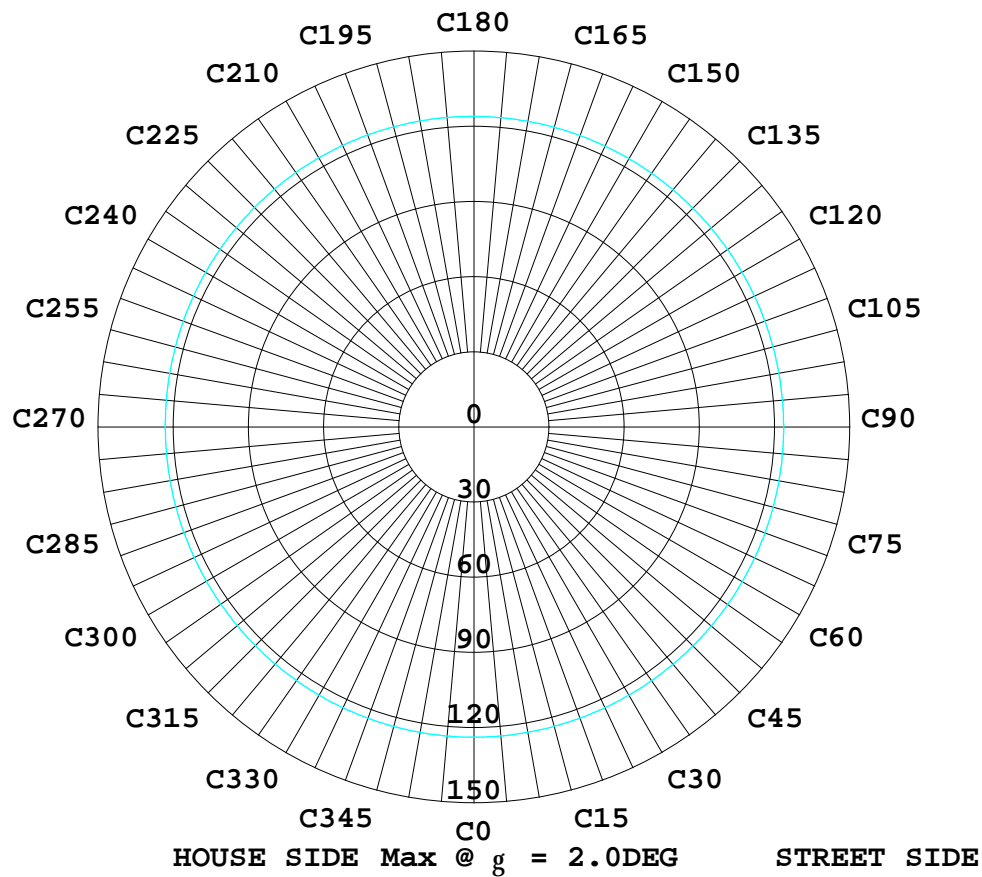
Test System: HOPOO HPG1800
Temperature: 25.3 DEG
Operators:
Test Date: 2021年11月29日

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: 46-RS-5050-24-60-12-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 60D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211129015



Test System: HOPOO HPG1800
Temperature: 25.3DEG
Operators:
Test Date: 2021年11月29日

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