

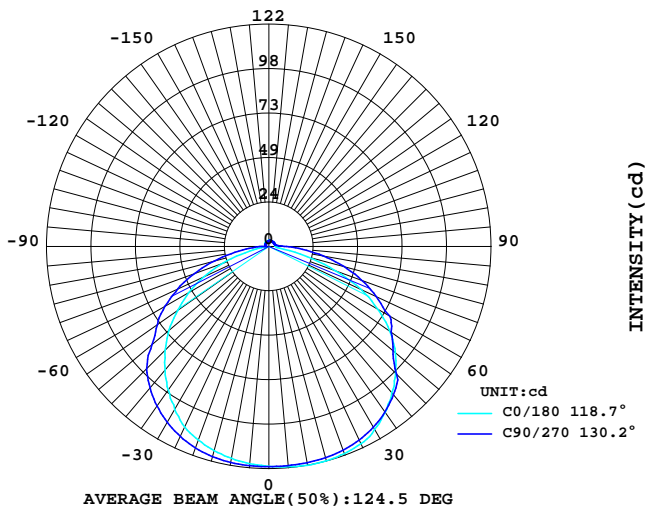
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

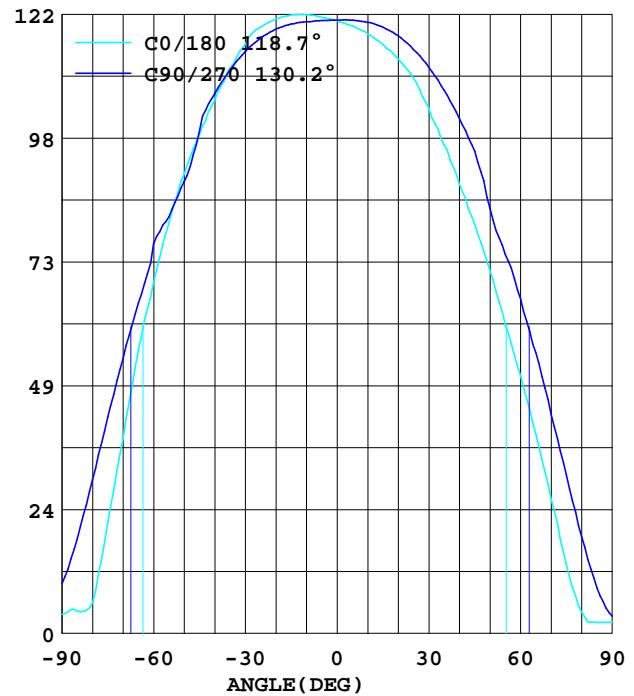
MANUFACTURER:			
Address:			
NAME: 44-RS-5050-24-80-10-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 80D	CCT(K): 0	DIMENSION: 1M*0.01M	SERIAL No.: 20211129002

DATA OF LAMP		Imax(cd)	122.4	S/MH(C0/180)	1.42
MODEL	5050	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.42
NOMINAL POWER(W)	10	TOTAL FLUX(lm)	435.56	Voltage(V)	23.99
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	41.2	Current(A)	0.440
NOMINAL FLUX(lm)	435.6	h up(%)	4.5	Power(W)	10.57
LAMPS QUANTITY	1	h down(%)	95.5	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effective Flux(lm)	411.6	EEL	0.278

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: 44-RS-5050-24-80-10-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 80D	CCT(K): 0	DIMENSION: 1M*0.01M	SERIAL No.: 20211129002

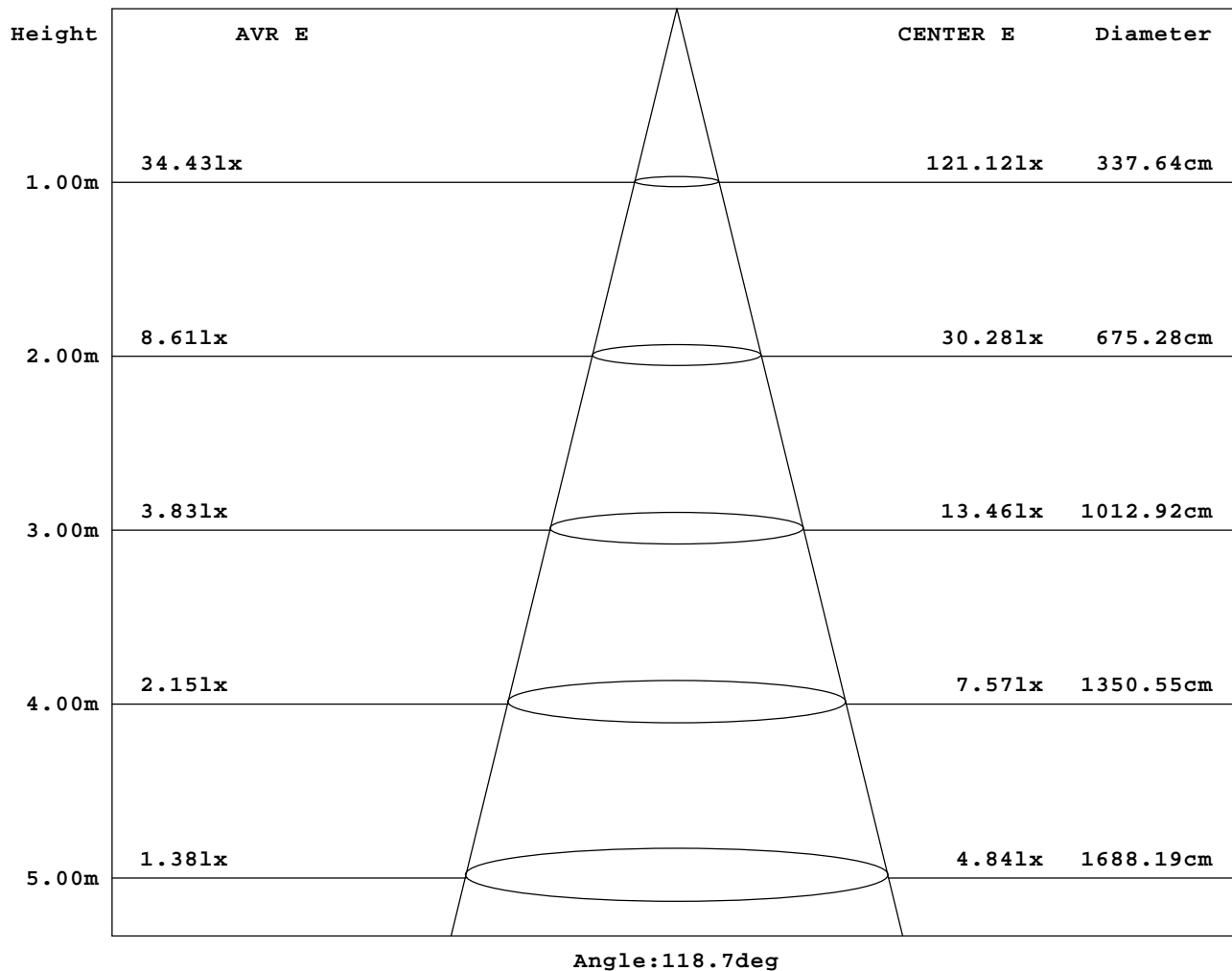
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年11月29日

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: 44-RS-5050-24-80-10-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 80D	CCT(K): 0	DIMENSION: 1M*0.01M	SERIAL No.: 20211129002



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: 44-RS-5050-24-80-10-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 80D	CCT(K): 0	DIMENSION: 1M*0.01M	SERIAL No.: 20211129002

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tStal
5.0	121.8	121.5	121.1	120.2	120.1	121.3	121.2	121.8	0- 5	2.898	2.898
10.0	122.3	121.3	120.9	119.0	118.5	120.9	120.8	122.2	5- 10	8.656	11.55
15.0	122.2	120.8	120.4	117.3	116.4	120.0	119.8	122.2	10- 15	14.28	25.83
20.0	121.5	119.6	119.4	115.1	113.5	118.6	118.1	121.6	15- 20	19.65	45.48
25.0	119.9	117.8	117.7	112.1	109.8	116.3	115.4	120.2	20- 25	24.61	70.10
30.0	116.5	115.3	115.0	108.4	103.8	113.2	111.9	117.8	25- 30	28.99	99.09
35.0	111.7	112.0	111.4	103.9	96.56	109.3	107.4	114.6	30- 35	32.57	131.6
40.0	105.3	107.7	106.7	98.73	88.82	104.6	101.7	110.5	35- 40	35.30	166.9
45.0	98.73	102.8	99.51	92.92	80.84	98.89	95.32	105.4	40- 45	37.06	204.0
50.0	90.83	96.72	89.36	86.03	71.78	92.61	84.09	99.20	45- 50	37.49	241.5
55.0	81.07	85.57	82.31	74.72	61.17	85.41	74.96	88.82	50- 55	36.65	278.1
60.0	69.46	72.09	77.05	62.57	50.95	72.40	66.13	75.96	55- 60	34.23	312.4
65.0	55.83	63.03	65.20	53.35	39.33	59.86	55.44	66.75	60- 65	30.49	342.9
70.0	38.64	50.95	54.36	42.90	26.63	46.23	43.44	54.90	65- 70	25.90	368.8
75.0	21.91	37.71	42.82	31.28	13.62	36.08	31.36	42.90	70- 75	20.32	389.1
80.0	6.040	25.94	30.35	21.06	4.181	23.38	19.05	29.89	75- 80	13.73	402.8
85.0	4.491	14.17	18.58	11.69	2.168	14.24	8.983	18.27	80- 85	8.533	411.4
90.0	3.794	4.956	9.834	4.878	2.245	6.659	3.407	7.976	85- 90	4.507	415.9
95.0	3.639	2.400	5.575	2.632	2.323	4.181	2.013	4.181	90- 95	2.232	418.1
100.0	3.484	2.013	4.336	2.090	2.400	3.872	2.013	3.872	95-100	1.726	419.8
105.0	3.407	2.090	3.639	2.168	2.478	3.794	2.090	3.872	100-105	1.596	421.4
110.0	3.329	2.168	3.484	2.168	2.555	3.717	2.168	3.717	105-110	1.534	422.9
115.0	3.329	2.245	3.407	2.245	2.632	3.639	2.245	3.639	110-115	1.480	424.4
120.0	3.329	2.323	3.329	2.323	2.710	3.562	2.323	3.562	115-120	1.426	425.9
125.0	3.329	2.400	3.329	2.400	2.865	3.484	2.400	3.484	120-125	1.361	427.2
130.0	3.329	2.478	3.329	2.478	2.942	3.484	2.478	3.484	125-130	1.296	428.5
135.0	3.329	2.555	3.329	2.632	3.020	3.484	2.555	3.484	130-135	1.223	429.7
140.0	3.329	2.632	3.329	2.632	3.097	3.484	2.632	3.484	135-140	1.134	430.9
145.0	3.329	2.710	3.329	2.710	3.175	3.484	2.710	3.484	140-145	1.034	431.9
150.0	3.329	2.787	3.329	2.787	3.175	3.484	2.787	3.407	145-150	0.922	432.8
155.0	3.407	2.787	3.329	2.787	3.252	3.484	2.787	3.407	150-155	0.799	433.6
160.0	3.407	2.865	3.329	2.865	3.252	3.484	2.865	3.407	155-160	0.666	434.3
165.0	3.407	2.865	3.407	2.865	3.329	3.407	2.942	3.407	160-165	0.528	434.8
170.0	3.407	2.942	3.407	2.942	3.329	3.407	2.942	3.407	165-170	0.381	435.2
175.0	3.407	2.942	3.407	2.942	3.329	3.407	2.942	3.407	170-175	0.231	435.4
180.0	3.407	3.097	3.329	3.020	3.484	3.329	3.020	3.329	175-180	0.077	435.5
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:

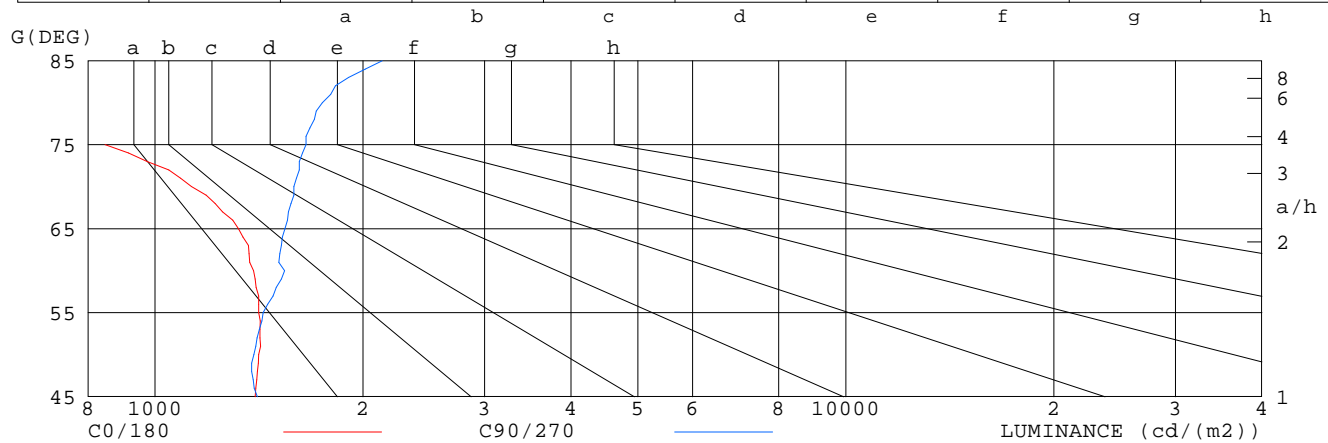
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME: 44-RS-5050-24-80-10-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 80D	CCT(K): 0	DIMENSION: 1M*0.01M	SERIAL No.: 20211129002

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	515	2132
80	348	1748
75	847	1655
70	1130	1589
65	1321	1543
60	1389	1541
55	1414	1435
50	1413	1390
45	1396	1407

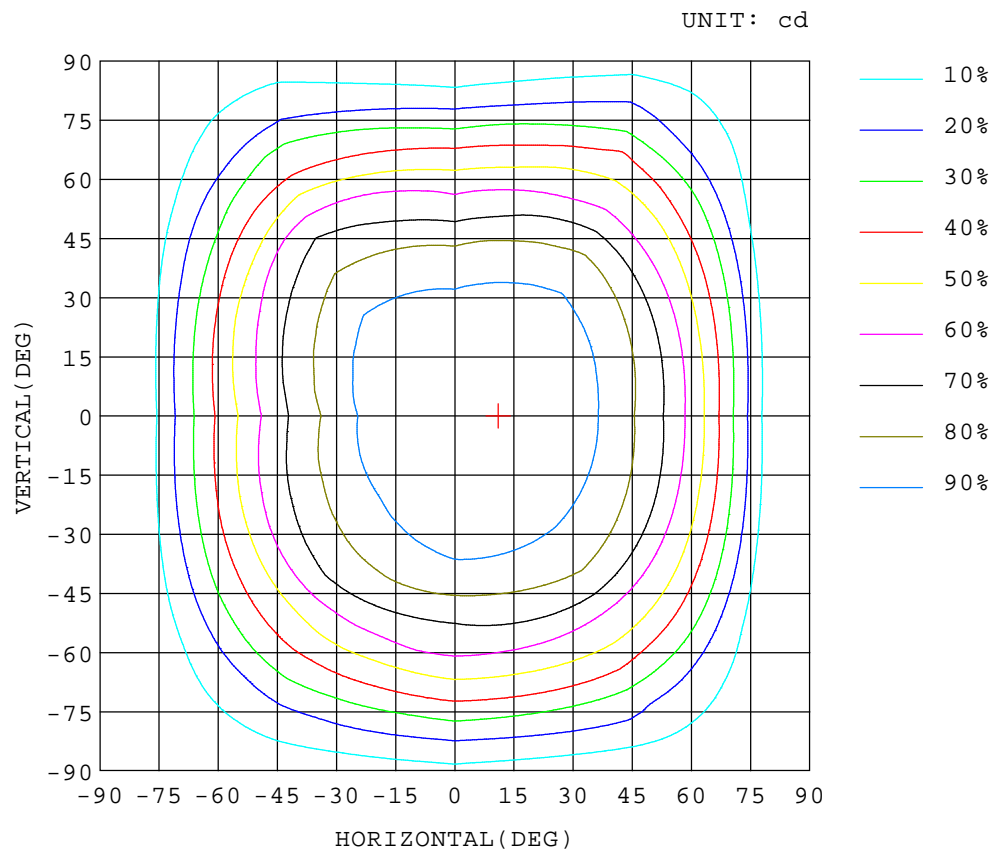
Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2021年11月29日

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: 44-RS-5050-24-80-10-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 80D	CCT(K): 0	DIMENSION: 1M*0.01M	SERIAL No.: 20211129002



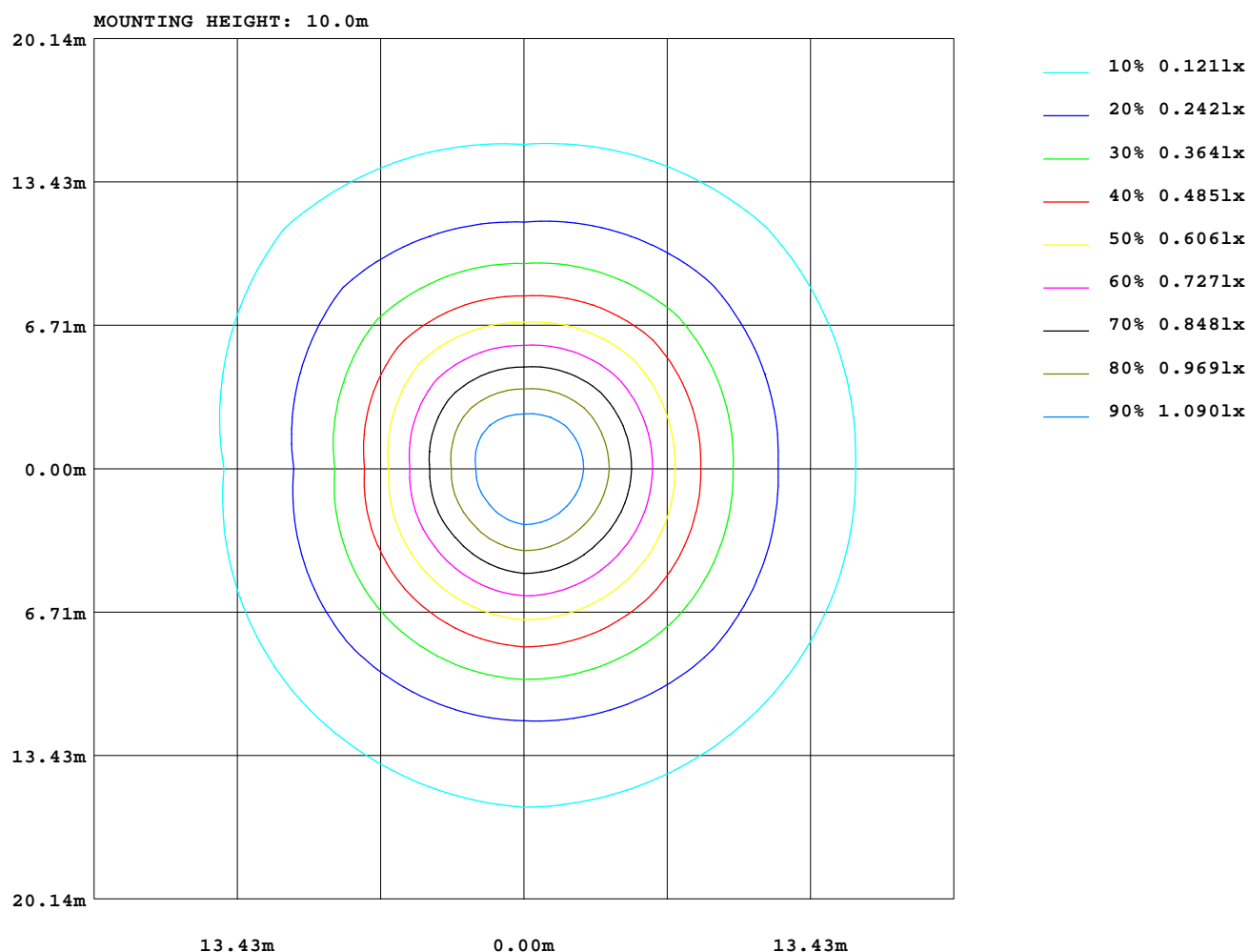
Test System: HOPOO HPG1800
Temperature: 25.3 DEG
Operators:
Test Date: 2021年11月29日

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: 44-RS-5050-24-80-10-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 80D	CCT(K): 0	DIMENSION: 1M*0.01M	SERIAL No.: 20211129002



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

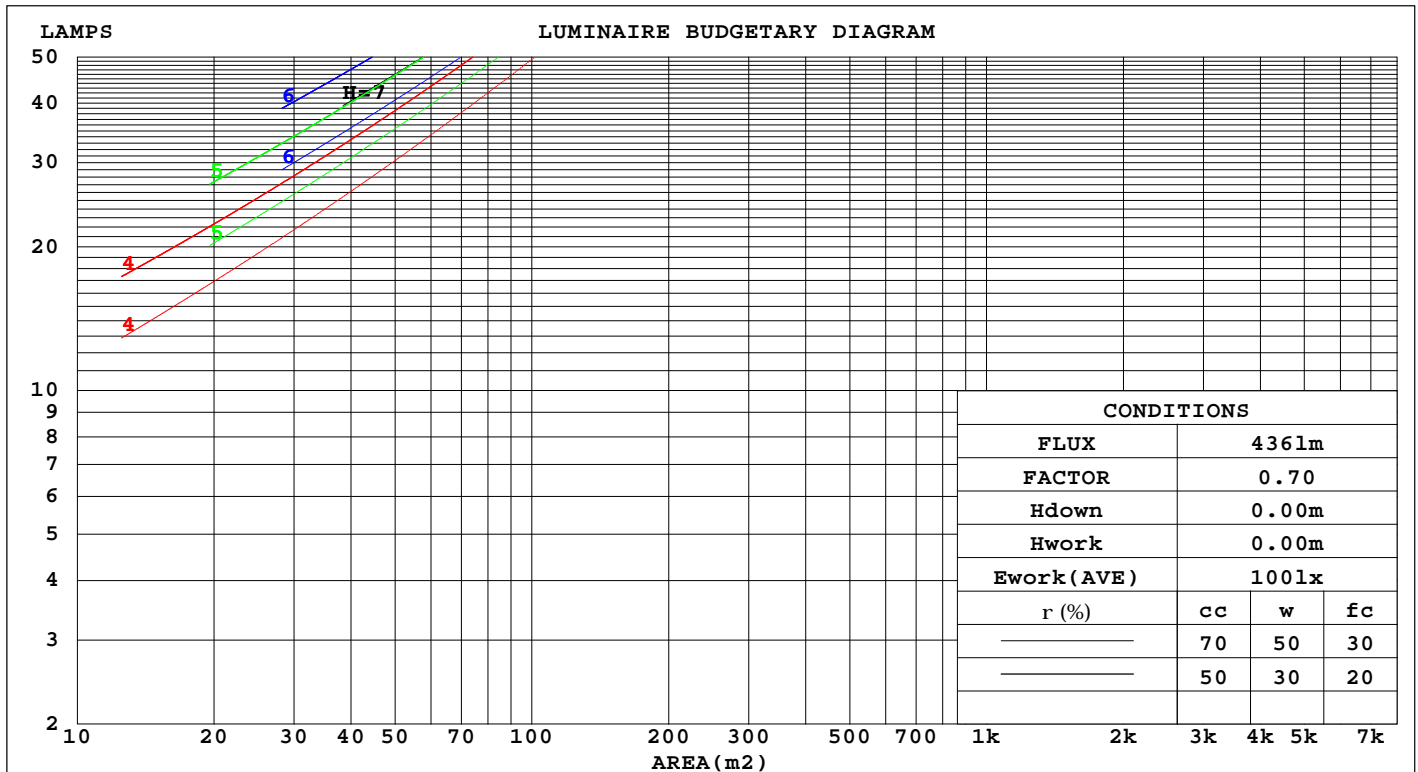
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity: 65.0%
Test Distance: 8.800 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 44-RS-5050-24-80-10-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 80D	CCT(K): 0	DIMENSION: 1M*0.01M	SERIAL No.: 20211129002

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	.95
1.0	1.02	.97	.93	.99	.95	.91	.94	.90	.87	.89	.86	.84	.85	.83	.80	.78
2.0	.88	.81	.75	.86	.79	.73	.81	.76	.71	.77	.73	.69	.74	.70	.66	.64
3.0	.77	.68	.61	.75	.67	.60	.71	.64	.59	.68	.62	.57	.64	.60	.56	.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	.23	.35	.28	.23	.34	.27	.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: 44-RS-5050-24-80-10-X-Y RGB						TYPE: LED Strip			WEIGHT:		
SPECIFICATION: 5050 80D			CCT(K): 0			DIMENSION: 1M*0.01M			SERIAL No.: 20211129002		

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	.331	.188	.060	.323	.184	.058	.307	.176	.056	.292	.169	.054	.279	.162	.052	
2.0	.306	.168	.051	.299	.165	.051	.284	.158	.049	.271	.152	.048	.259	.147	.046	
3.0	.281	.149	.045	.274	.147	.044	.261	.142	.043	.250	.137	.042	.239	.132	.041	
4.0	.258	.134	.039	.252	.132	.039	.240	.127	.038	.230	.123	.037	.220	.119	.036	
5.0	.237	.121	.035	.232	.119	.035	.221	.115	.034	.212	.112	.033	.203	.109	.033	
6.0	.219	.110	.031	.214	.108	.031	.205	.105	.031	.197	.102	.030	.188	.099	.029	
7.0	.203	.100	.028	.199	.099	.028	.191	.096	.028	.183	.094	.027	.176	.091	.027	
8.0	.189	.093	.026	.185	.091	.026	.178	.089	.025	.171	.087	.025	.164	.084	.025	
9.0	.177	.086	.024	.174	.085	.024	.167	.082	.023	.160	.080	.023	.154	.078	.023	
10.0	.166	.080	.022	.163	.079	.022	.157	.077	.022	.151	.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	.225	.225	.225	.192	.192	.192	.131	.131	.131	.075	.075	.075	.024	.024	.024		
1.0	.216	.191	.167	.185	.164	.144	.127	.113	.100	.073	.065	.058	.023	.021	.019		
2.0	.209	.167	.131	.179	.144	.113	.123	.099	.079	.071	.058	.046	.023	.019	.015		
3.0	.202	.149	.108	.173	.129	.093	.119	.090	.066	.069	.052	.039	.022	.017	.013		
4.0	.194	.136	.092	.167	.118	.080	.115	.082	.056	.066	.048	.033	.021	.016	.011		
5.0	.187	.126	.082	.160	.109	.071	.110	.076	.050	.064	.045	.030	.021	.015	.010		
6.0	.180	.118	.074	.154	.102	.064	.106	.072	.045	.062	.042	.027	.020	.014	.009		
7.0	.173	.111	.068	.149	.096	.059	.103	.068	.042	.060	.040	.025	.019	.013	.008		
8.0	.166	.105	.064	.143	.091	.056	.099	.064	.039	.058	.038	.024	.019	.012	.008		
9.0	.160	.101	.061	.138	.087	.053	.095	.061	.037	.056	.036	.022	.018	.012	.007		
10.0	.154	.096	.058	.133	.084	.051	.092	.059	.036	.054	.035	.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: 44-RS-5050-24-80-10-X-Y RGB						TYPE: LED Strip		WEIGHT:			
SPECIFICATION: 5050 80D		CCT(K): 0				DIMENSION: 1M*0.01M		SERIAL No.: 20211129002			
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	2H	14.2	15.7	14.5	16.0	16.3	14.4	15.9	14.7	16.2	16.5
	3H	15.6	17.0	16.0	17.4	17.7	16.4	17.8	16.7	18.1	18.4
	4H	16.0	17.4	16.4	17.7	18.1	17.2	18.6	17.6	18.9	19.3
	6H	16.1	17.4	16.5	17.7	18.1	18.0	19.3	18.4	19.6	20.0
	8H	16.1	17.3	16.5	17.7	18.1	18.4	19.6	18.8	19.9	20.3
	12H	16.1	17.3	16.5	17.7	18.1	18.7	19.8	19.1	20.2	20.6
4H	2H	14.9	16.2	15.3	16.6	16.9	15.1	16.4	15.5	16.7	17.1
	3H	16.6	17.7	17.0	18.1	18.5	17.2	18.4	17.6	18.8	19.2
	4H	17.1	18.2	17.6	18.6	19.0	18.2	19.3	18.7	19.7	20.1
	6H	17.3	18.3	17.8	18.7	19.2	19.2	20.1	19.6	20.5	21.0
	8H	17.4	18.2	17.8	18.7	19.2	19.6	20.5	20.1	20.9	21.4
	12H	17.4	18.2	17.9	18.7	19.2	20.0	20.8	20.5	21.2	21.8
8H	4H	17.6	18.4	18.0	18.9	19.4	18.5	19.4	19.0	19.9	20.3
	6H	18.0	18.7	18.5	19.2	19.7	19.6	20.4	20.2	20.9	21.4
	8H	18.1	18.7	18.6	19.2	19.8	20.2	20.8	20.7	21.3	21.9
	12H	18.2	18.8	18.8	19.3	19.9	20.7	21.3	21.3	21.8	22.4
12H	4H	17.6	18.4	18.1	18.9	19.4	18.5	19.3	19.0	19.8	20.3
	6H	18.1	18.8	18.7	19.3	19.8	19.7	20.4	20.2	20.9	21.4
	8H	18.3	18.9	18.9	19.4	20.0	20.3	20.9	20.9	21.4	22.0
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H		+ 0.2 / - 0.4					+ 0.2 / - 0.3				
2.0H		+ 0.2 / - 0.5					+ 0.1 / - 0.3				

CIE Pub.117 Corrected 435.5 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: 44-RS-5050-24-80-10-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 80D	CCT(K): 0	DIMENSION: 1M*0.01M	SERIAL No.: 20211129002

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	34	53	41	34	51	41	34	27
0.80	64	51	44	62	51	44	60	50	43	36
1.00	72	60	53	71	60	52	68	61	52	44
1.25	79	68	61	78	67	60	74	65	59	51
1.50	85	74	66	83	73	66	79	71	64	56
2.00	92	82	75	90	81	74	85	78	73	64
2.50	96	87	81	93	86	80	89	83	77	68
3.00	99	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	95	98	94	91	80
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

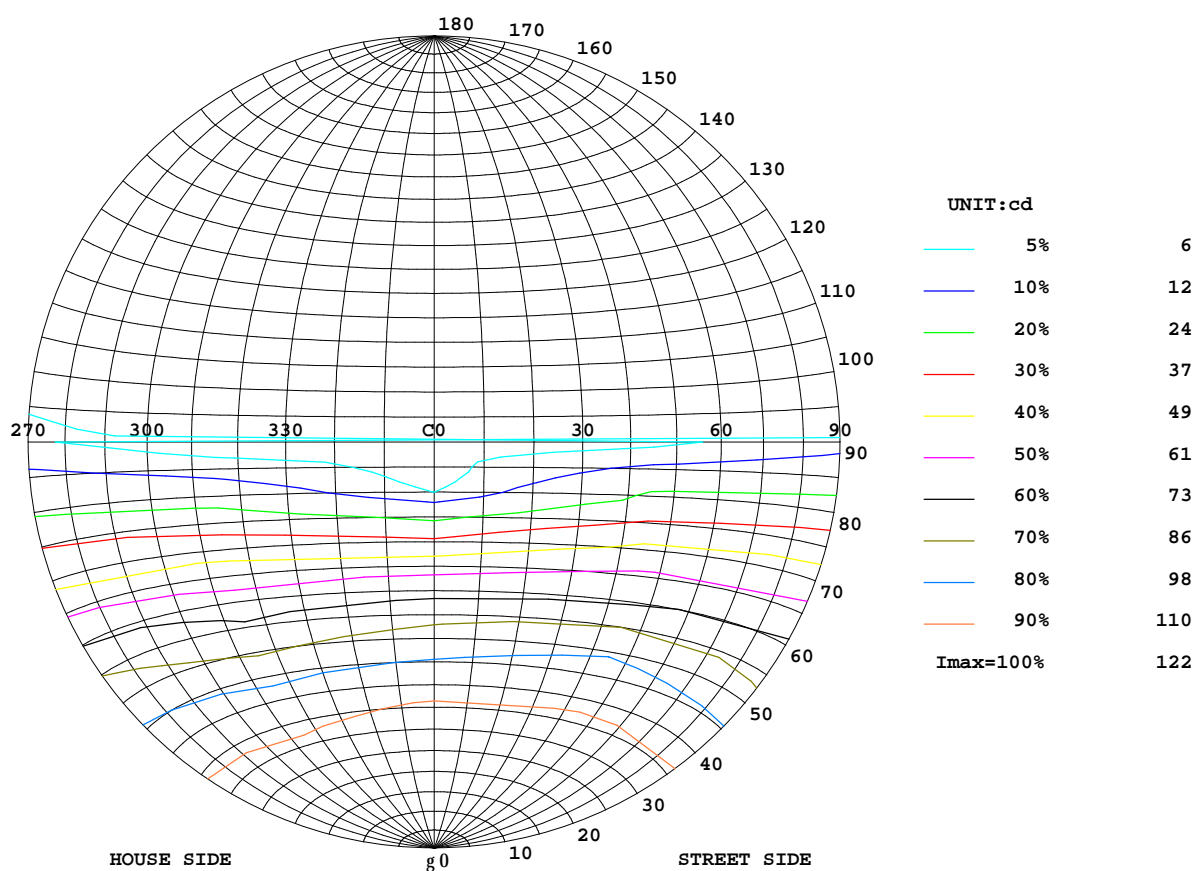
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年11月29日

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: 44-RS-5050-24-80-10-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 80D	CCT(K): 0	DIMENSION: 1M*0.01M	SERIAL No.: 20211129002



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

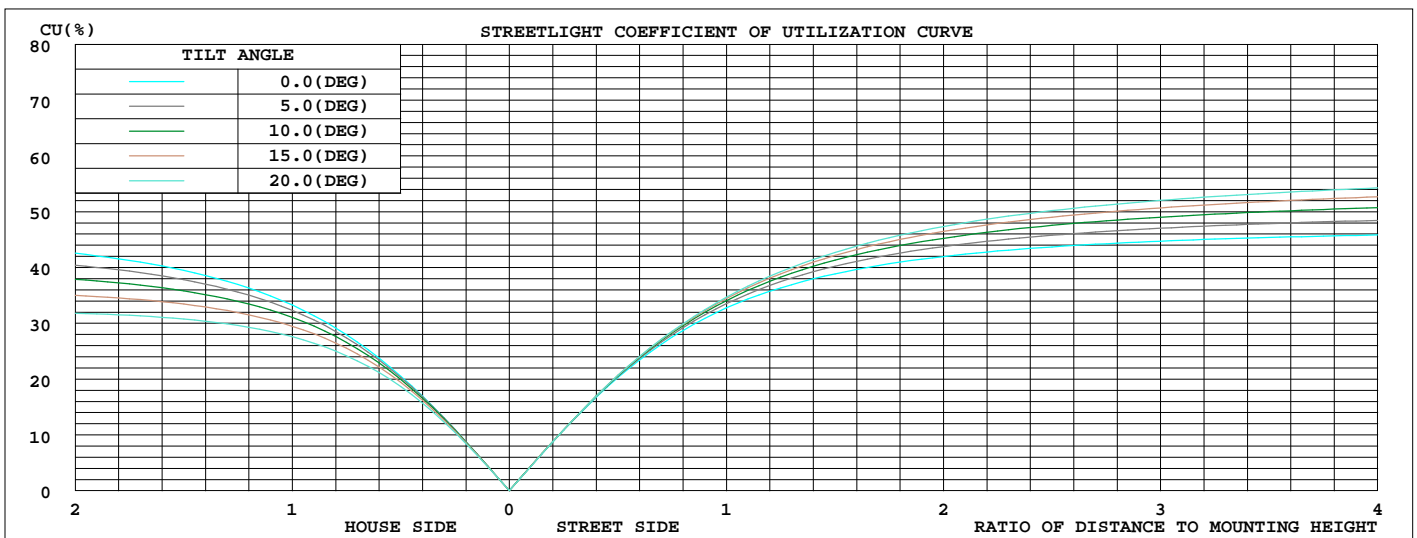
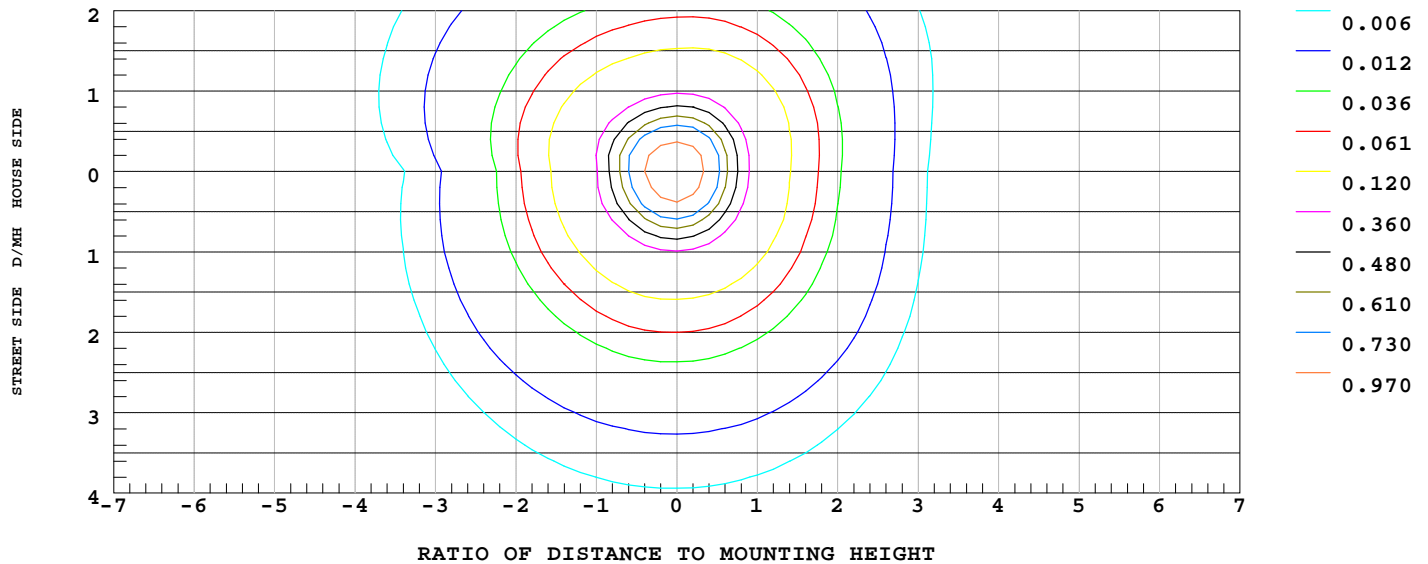
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.800 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 44-RS-5050-24-80-10-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 80D	CCT(K): 0	DIMENSION: 1M*0.01M	SERIAL No.: 20211129002

ILLUMINANCE AT MH=10 m, Enadir = 1.21 lx



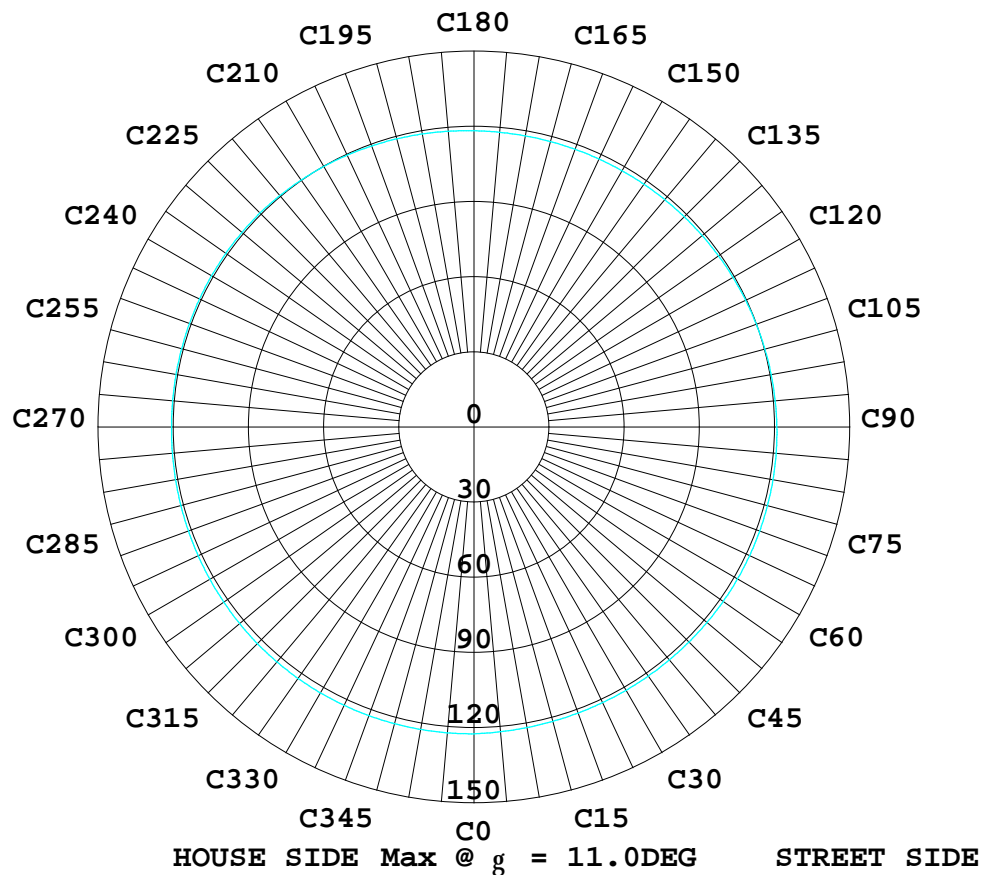
Test System: HOPOO HPG1800
Temperature: 25.3 DEG
Operators:
Test Date: 2021年11月29日

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: 44-RS-5050-24-80-10-X-Y RGB		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 80D	CCT(K): 0	DIMENSION: 1M*0.01M	SERIAL No.: 20211129002



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: