

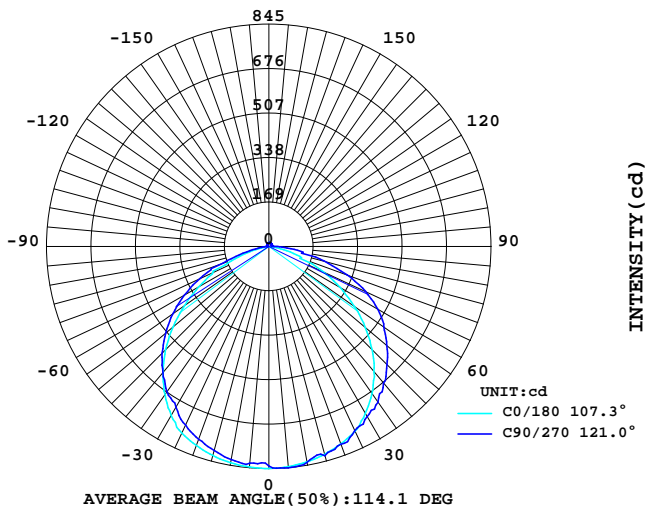
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

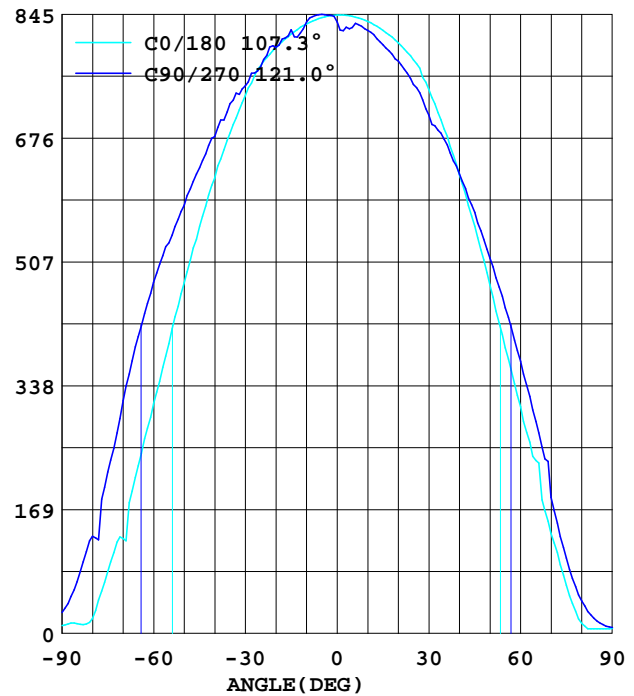
MANUFACTURER:			
Address:			
NAME: 51-RS-5050-24-112-12-X-Y RGB2700K6000K		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211203008

DATA OF LAMP		Imax(cd)	852.3	S/MH(C0/180)	1.28
MODEL	5050	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.34
NOMINAL POWER(W)	32	TOTAL FLUX(lm)	2568.8	Voltage(V)	24.00
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	82.7	Current(A)	1.293
NOMINAL FLUX(lm)	2568.8	h up(%)	2.7	Power(W)	31.05
LAMPS QUANTITY	1	h down(%)	97.3	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effective Flux(lm)	2457.4	EEL	0.172

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年12月03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: 51-RS-5050-24-112-12-X-Y RGB2700K6000K		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211203008

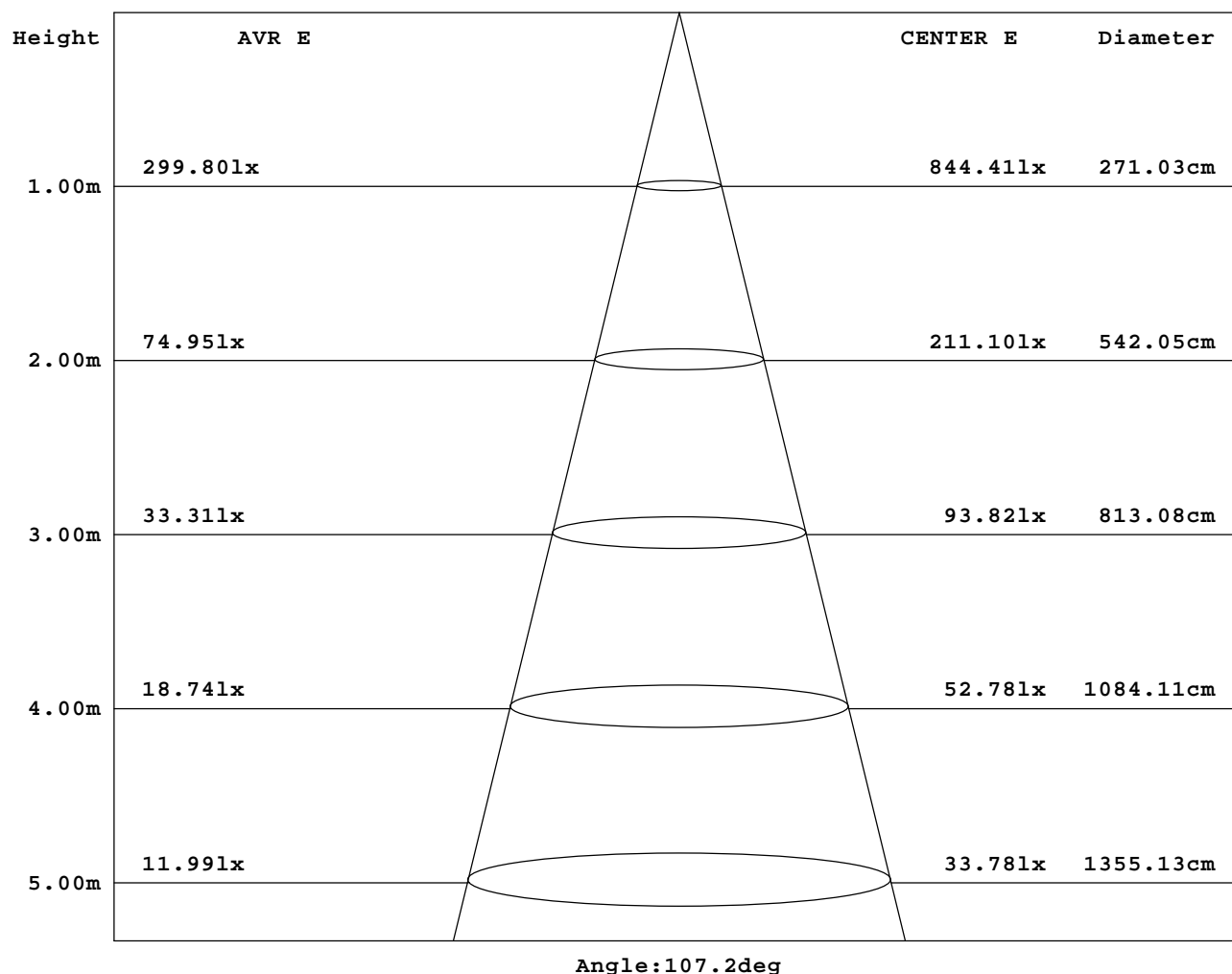
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年12月03日

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: 51-RS-5050-24-112-12-X-Y RGB2700K6000K		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211203008



Test System: HOPOO HPG1800
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021年12月03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: 51-RS-5050-24-112-12-X-Y RGB2700K6000K		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211203008

g	C0	C45	C90	C135	C180	C225	C270	C315	g	4one	t5tal
5.0	840.6	837.4	845.4	851.6	842.4	839.6	827.1	845.2	0- 5	20.12	20.12
10.0	832.0	828.5	834.7	846.9	835.6	832.6	823.3	833.7	5- 10	59.95	80.08
15.0	818.6	814.7	824.1	836.6	823.4	820.7	803.5	817.2	10- 15	97.94	178.0
20.0	799.8	795.6	800.2	821.2	806.4	803.4	781.2	795.9	15- 20	133.4	311.5
25.0	775.4	770.7	773.7	800.1	782.9	783.6	749.6	768.9	20- 25	165.4	477.0
30.0	734.5	741.2	747.7	770.7	743.1	754.7	707.8	735.4	25- 30	192.2	669.3
35.0	683.0	702.6	723.4	741.1	688.9	720.4	674.9	696.5	30- 35	212.8	882.1
40.0	621.6	660.1	678.4	700.1	625.9	676.5	627.2	648.7	35- 40	226.8	1109
45.0	556.1	611.3	636.0	652.7	556.0	624.3	574.9	593.1	40- 45	232.6	1342
50.0	479.1	552.4	584.6	594.5	475.8	565.3	512.7	531.4	45- 50	229.8	1572
55.0	395.7	485.3	533.2	527.1	390.0	495.9	444.5	459.6	50- 55	218.3	1790
60.0	313.6	413.5	479.6	454.8	309.3	419.4	371.7	381.3	55- 60	198.8	1989
65.0	228.9	334.6	405.3	374.6	236.1	342.4	289.3	302.2	60- 65	171.5	2160
70.0	129.5	255.3	317.8	292.0	136.6	260.1	186.0	221.7	65- 70	136.9	2297
75.0	84.48	169.9	220.3	237.3	65.74	178.0	102.9	133.1	70- 75	97.74	2395
80.0	20.36	99.12	132.6	114.7	13.93	110.8	44.45	94.01	75- 80	57.54	2452
85.0	13.31	54.28	70.39	51.18	6.272	55.67	16.72	42.51	80- 85	31.56	2484
90.0	10.84	21.52	28.80	15.41	6.582	24.31	8.208	17.65	85- 90	14.39	2498
95.0	10.29	7.976	14.48	6.272	7.047	13.78	7.047	12.77	90- 95	6.794	2505
100.0	10.37	6.892	11.38	7.124	7.589	12.23	7.434	12.08	95-100	5.196	2510
105.0	10.45	7.201	10.99	7.279	8.131	12.08	7.976	12.15	100-105	5.056	2515
110.0	10.68	7.666	10.99	7.511	8.673	12.08	8.518	12.15	105-110	5.040	2521
115.0	10.91	8.208	11.15	7.976	9.215	12.15	9.060	12.31	110-115	5.033	2526
120.0	11.15	8.750	11.30	8.440	9.757	12.31	9.602	12.46	115-120	5.005	2531
125.0	11.53	9.292	11.61	8.983	10.29	12.54	10.14	12.70	120-125	4.936	2536
130.0	11.92	9.912	11.92	9.525	10.84	12.77	10.68	13.00	125-130	4.828	2540
135.0	12.23	10.45	12.23	10.14	11.38	13.08	11.15	13.31	130-135	4.664	2545
140.0	12.70	10.99	12.70	10.68	11.92	13.39	11.69	13.62	135-140	4.438	2549
145.0	13.00	11.53	13.08	11.30	12.39	13.70	12.15	13.93	140-145	4.148	2554
150.0	13.39	12.00	13.47	11.77	12.85	14.01	12.54	14.17	145-150	3.781	2557
155.0	13.70	12.46	13.78	12.23	13.24	14.24	12.93	14.40	150-155	3.343	2561
160.0	14.01	12.77	14.09	12.62	13.70	14.40	13.24	14.63	155-160	2.838	2564
165.0	14.32	13.16	14.40	13.00	14.01	14.55	13.47	14.71	160-165	2.275	2566
170.0	14.48	13.31	14.63	13.31	14.24	14.63	13.62	14.79	165-170	1.665	2567
175.0	14.71	13.62	14.79	13.55	14.48	14.71	13.70	14.79	170-175	1.016	2569
180.0	14.63	13.78	14.79	13.86	14.86	14.55	13.86	14.55	175-180	0.342	2569
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年12月03日

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

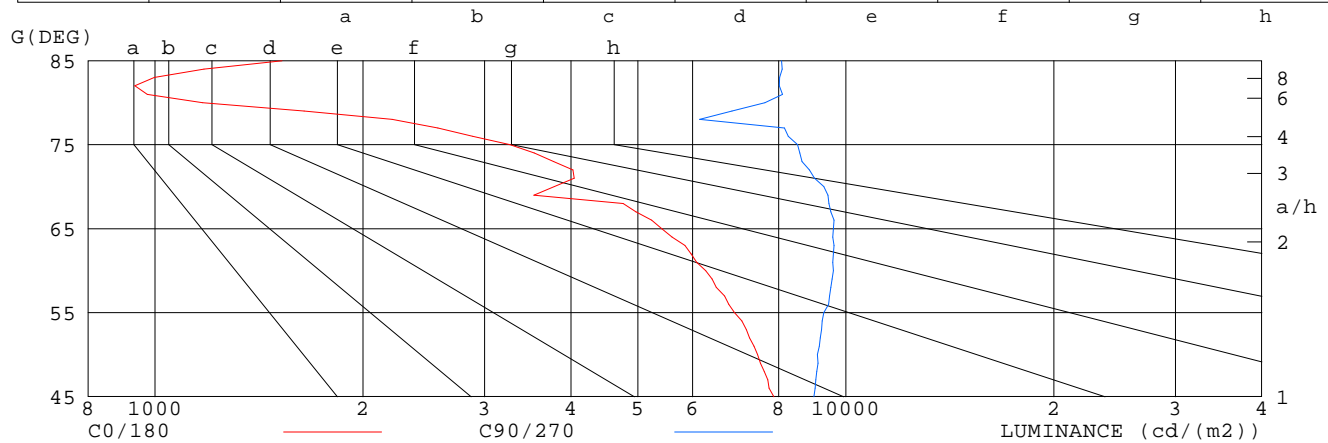
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME: 51-RS-5050-24-112-12-X-Y RGB2700K6000K		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211203008

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	1528	8077
80	1173	7639
75	3264	8512
70	3788	9292
65	5417	9593
60	6273	9593
55	6899	9297
50	7455	9096
45	7865	8996

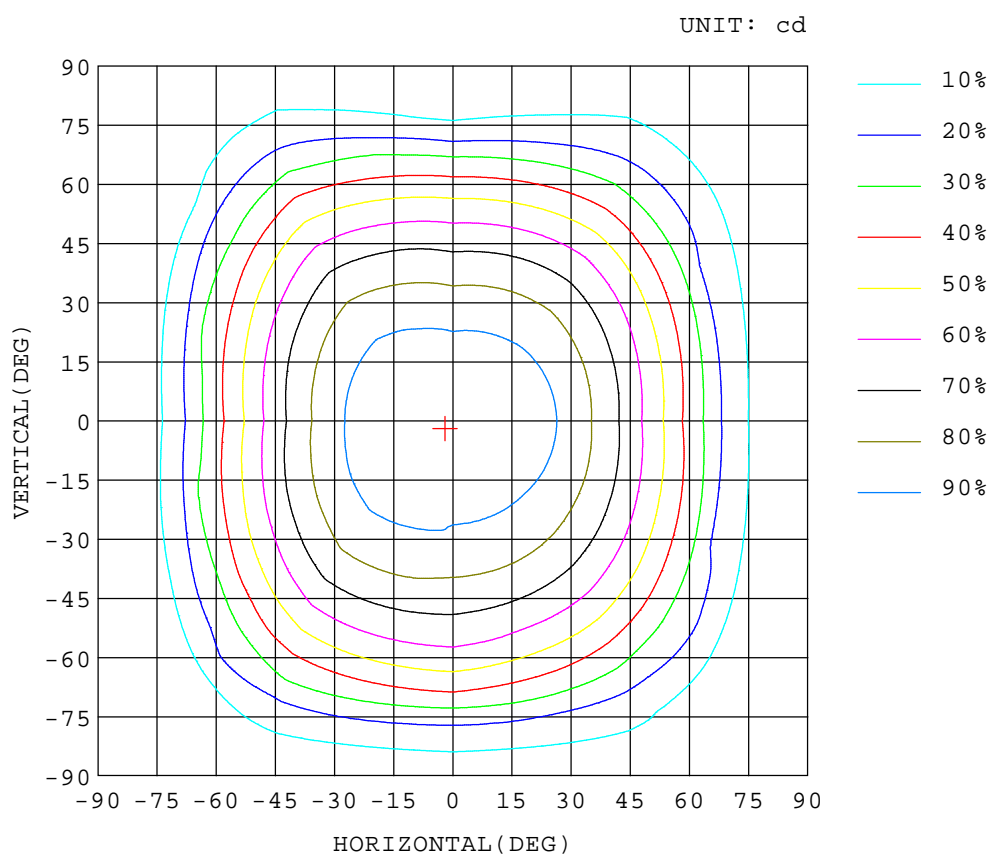
Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2021年12月03日

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: 51-RS-5050-24-112-12-X-Y RGB2700K6000K		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211203008



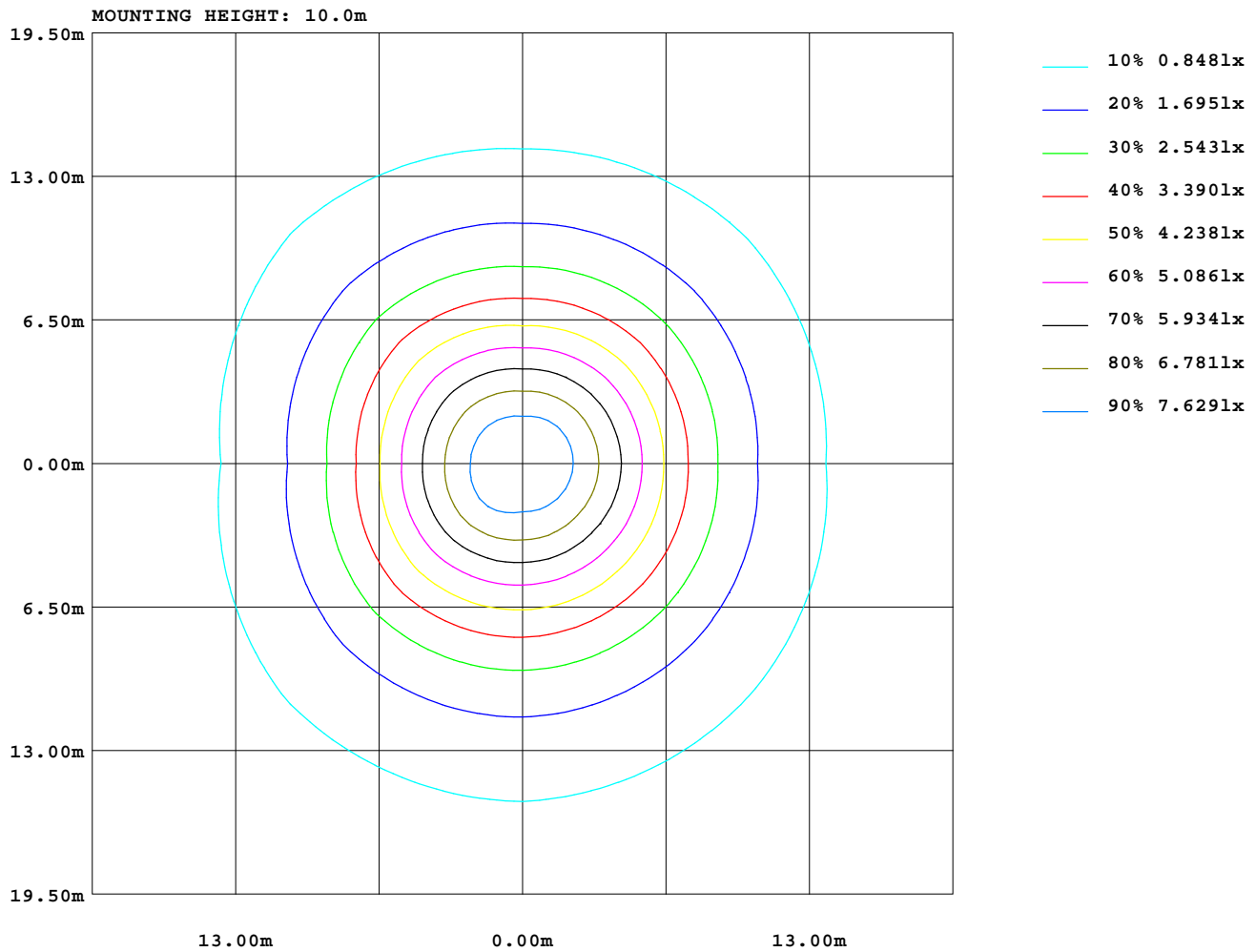
Test System: HOPOO HPG1800
Temperature: 25.3 DEG
Operators:
Test Date: 2021年12月03日

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: 51-RS-5050-24-112-12-X-Y RGB2700K6000K		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211203008



Test System: HOPOO HPG1800
Temperature: 25.3DEG
Operators:
Test Date: 2021年12月03日

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

MANUFACTURER:			
Address:			
NAME: 51-RS-5050-24-112-12-X-Y RGB2700K6000K		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211203008

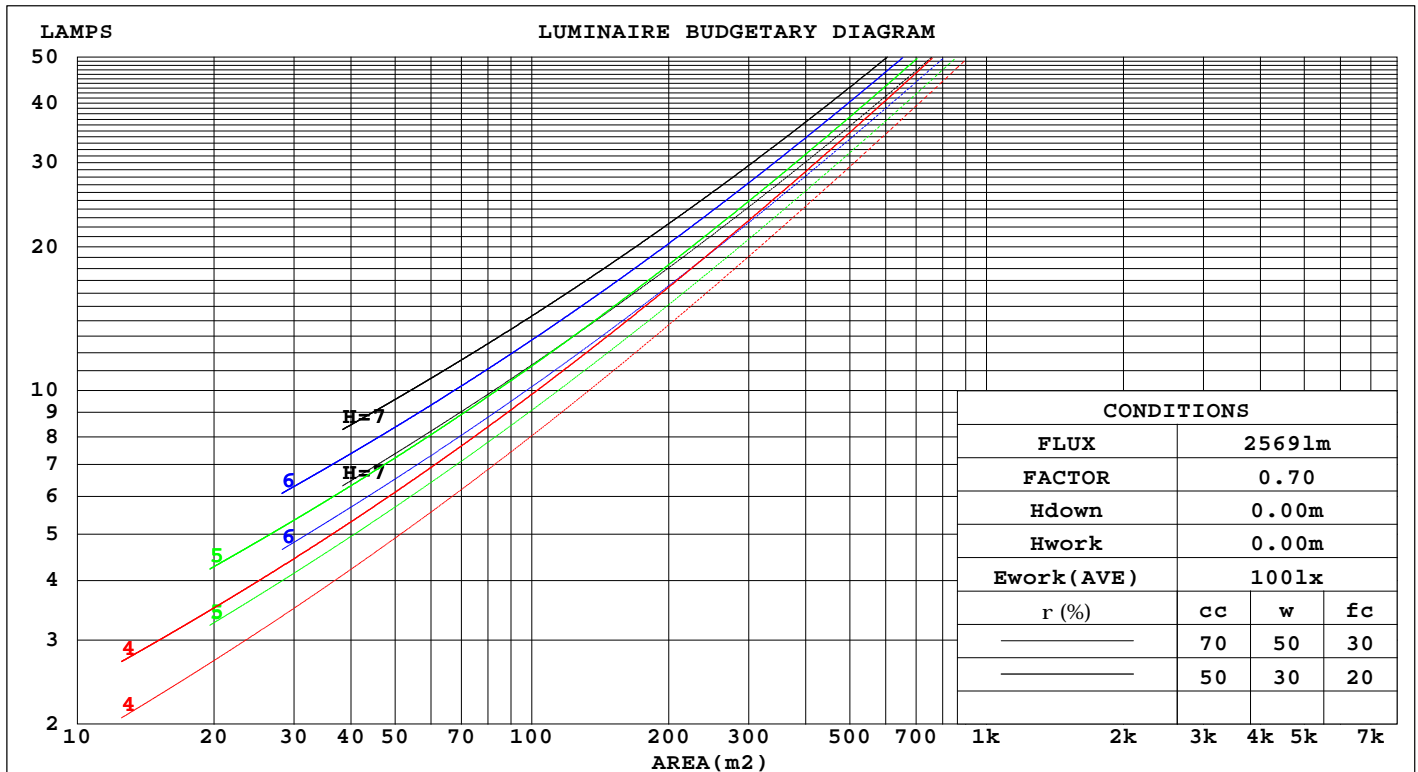
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.800 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 51-RS-5050-24-112-12-X-Y RGB2700K6000K		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211203008

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	1.10	1.10	1.10	1.04	1.04	1.04	.00	.00	.00	.97														
1.0	1.03	.99	.95	1.01	.97	.94	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82														
2.0	.90	.83	.78	.88	.82	.77	.84	.79	.74	.80	.76	.72	.77	.73	.70	.68														
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.71	.65	.61	.68	.63	.59	.57														
4.0	.70	.61	.54	.68	.60	.54	.66	.59	.53	.63	.57	.52	.60	.55	.51	.49														
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.56	.50	.45	.54	.49	.44	.42														
6.0	.56	.47	.41	.55	.47	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37														
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.46	.40	.35	.45	.39	.34	.32														
8.0	.46	.38	.32	.45	.37	.32	.44	.37	.31	.42	.36	.31	.41	.35	.31	.29														
9.0	.42	.34	.29	.42	.34	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26														
10.0	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.35	.29	.25	.23														



Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年12月03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: 51-RS-5050-24-112-12-X-Y RGB2700K6000K						TYPE: LED Strip			WEIGHT:		
SPECIFICATION: 5050 112D			CCT(K): 0			DIMENSION: 1M*0.012M			SERIAL No.: 20211203008		

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	.305	.174	.055	.297	.170	.054	.282	.162	.052	.269	.155	.050	.256	.149	.048		
2.0	.288	.158	.048	.281	.155	.048	.268	.149	.046	.256	.144	.045	.245	.138	.044		
3.0	.267	.142	.043	.261	.140	.042	.250	.135	.041	.239	.131	.040	.229	.127	.039		
4.0	.247	.129	.038	.242	.127	.037	.231	.123	.037	.222	.119	.036	.213	.116	.035		
5.0	.229	.117	.034	.224	.115	.034	.215	.112	.033	.206	.109	.032	.198	.106	.032		
6.0	.213	.107	.031	.208	.105	.030	.200	.102	.030	.192	.100	.029	.185	.097	.029		
7.0	.198	.098	.028	.194	.097	.028	.187	.094	.027	.180	.092	.027	.173	.090	.026		
8.0	.185	.090	.025	.182	.089	.025	.175	.087	.025	.168	.085	.025	.162	.083	.024		
9.0	.174	.084	.023	.170	.083	.023	.164	.081	.023	.158	.079	.023	.153	.078	.022		
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.149	.074	.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	.211	.211	.211	.181	.181	.181	.123	.123	.123	.071	.071	.071	.023	.023	.023	
1.0	.201	.177	.156	.172	.152	.134	.118	.105	.093	.068	.061	.054	.022	.019	.017	
2.0	.193	.153	.120	.165	.132	.103	.113	.091	.072	.065	.053	.042	.021	.017	.014	
3.0	.185	.136	.096	.159	.117	.083	.109	.081	.058	.063	.047	.034	.020	.015	.011	
4.0	.178	.122	.080	.153	.106	.069	.105	.074	.049	.061	.043	.029	.020	.014	.010	
5.0	.170	.112	.069	.146	.097	.060	.101	.068	.042	.058	.040	.025	.019	.013	.008	
6.0	.163	.104	.061	.140	.090	.053	.097	.063	.037	.056	.037	.022	.018	.012	.007	
7.0	.157	.097	.055	.135	.084	.048	.093	.059	.034	.054	.035	.020	.017	.011	.007	
8.0	.150	.091	.050	.129	.079	.044	.090	.055	.031	.052	.033	.019	.017	.011	.006	
9.0	.144	.086	.047	.124	.075	.041	.086	.053	.029	.050	.031	.017	.016	.010	.006	
10.0	.139	.082	.044	.120	.071	.039	.083	.050	.027	.048	.030	.016	.016	.010	.005	

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年12月03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: 51-RS-5050-24-112-12-X-Y RGB2700K6000K						TYPE: LED Strip		WEIGHT:			
SPECIFICATION: 5050 112D			CCT(K): 0			DIMENSION: 1M*0.012M			SERIAL No.: 20211203008		
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	19.5	21.0	19.8	21.3	21.5	20.8	22.3	21.1	22.6	22.8	
	20.5	21.9	20.8	22.2	22.4	22.6	24.0	23.0	24.3	24.6	
	20.8	22.1	21.1	22.4	22.7	23.3	24.6	23.7	24.9	25.2	
	20.8	22.0	21.2	22.3	22.7	23.7	24.9	24.1	25.2	25.6	
	20.8	22.0	21.2	22.3	22.6	23.9	25.1	24.3	25.4	25.8	
	20.7	21.9	21.1	22.2	22.6	24.1	25.2	24.5	25.5	25.9	
4H 2H	20.3	21.6	20.7	21.9	22.2	21.3	22.6	21.7	22.9	23.2	
	21.6	22.7	21.9	23.0	23.4	23.3	24.4	23.7	24.8	25.1	
	21.9	23.0	22.3	23.3	23.7	24.1	25.1	24.5	25.5	25.9	
	22.0	23.0	22.5	23.4	23.8	24.6	25.5	25.0	25.9	26.3	
	22.0	22.9	22.5	23.3	23.7	24.9	25.7	25.3	26.1	26.6	
	22.0	22.8	22.5	23.2	23.7	25.1	25.9	25.6	26.3	26.8	
8H 4H	22.3	23.2	22.8	23.6	24.0	24.2	25.1	24.7	25.5	25.9	
	22.6	23.3	23.1	23.7	24.2	24.9	25.6	25.4	26.1	26.5	
	22.6	23.3	23.1	23.7	24.2	25.3	25.9	25.8	26.4	26.9	
	22.7	23.2	23.2	23.7	24.3	25.6	26.1	26.1	26.6	27.2	
12H 4H	22.4	23.1	22.8	23.6	24.0	24.2	25.0	24.7	25.4	25.9	
	22.7	23.3	23.2	23.8	24.3	24.9	25.5	25.4	26.0	26.5	
	22.8	23.3	23.3	23.8	24.4	25.3	25.9	25.9	26.4	26.9	
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.1					
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.2					
2.0H	+ 0.3 / - 0.7					+ 0.2 / - 0.4					

CIE Pub.117 Corrected 2569 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.3)

Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年12月03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: 51-RS-5050-24-112-12-X-Y RGB2700K6000K		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211203008

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) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	56	45	38	54	44	37	31
0.80	67	55	48	65	54	47	63	53	47	40
1.00	75	64	57	74	63	56	71	64	56	48
1.25	82	72	65	81	71	64	78	69	63	55
1.50	87	77	70	85	76	70	82	74	68	61
2.00	94	86	79	92	84	78	88	82	77	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	102	95	89	99	93	88	95	90	85	76
4.00	106	100	95	103	98	94	98	94	91	81
5.00	108	103	99	105	101	97	100	97	94	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

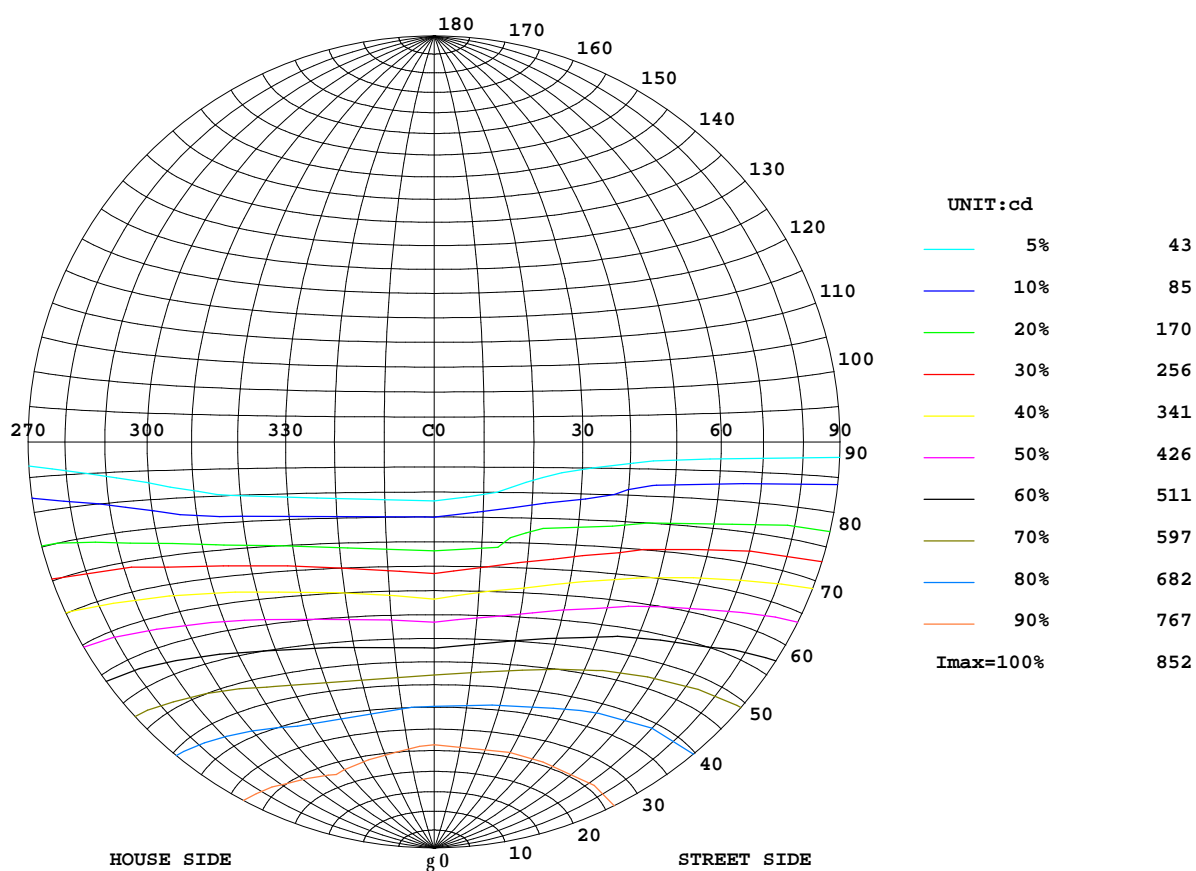
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年12月03日

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: 51-RS-5050-24-112-12-X-Y RGB2700K6000K		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211203008



Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年12月03日

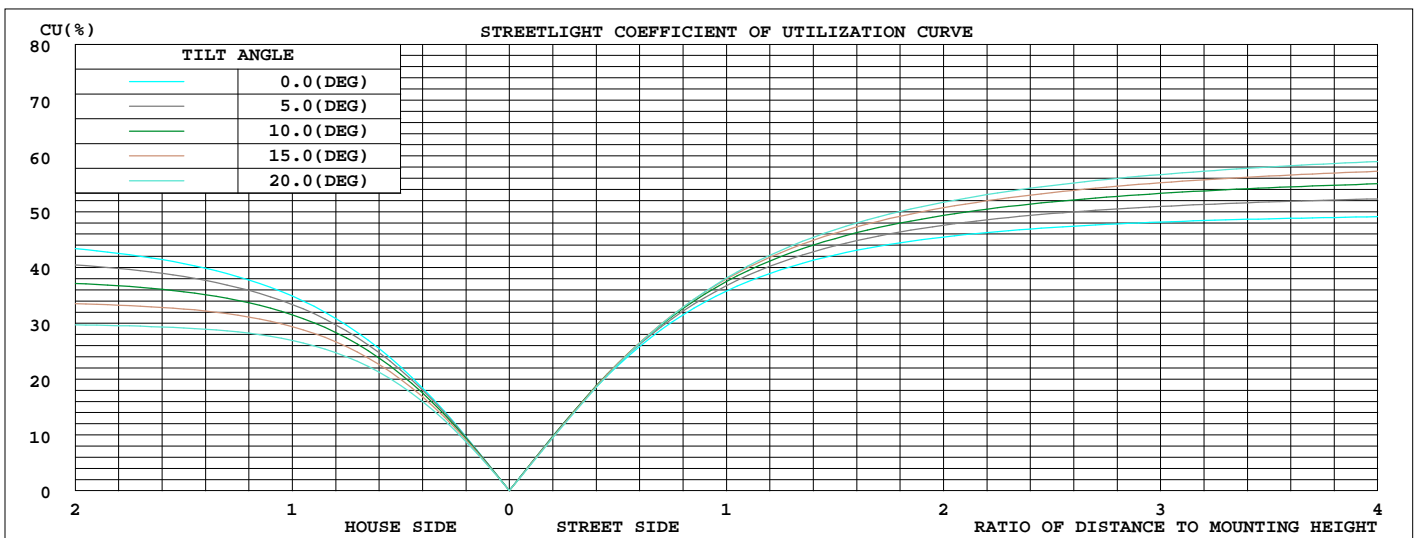
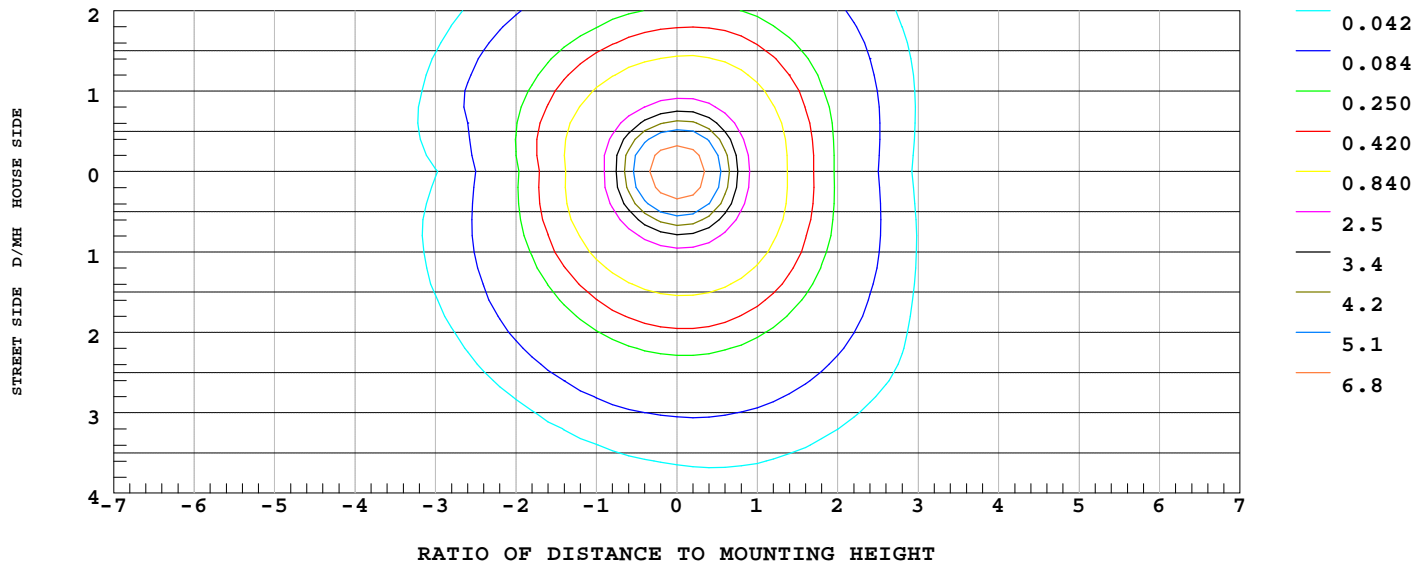
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.800 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: 51-RS-5050-24-112-12-X-Y RGB2700K6000K		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211203008

ILLUMINANCE AT MH=10 m, Enadir = 8.44 lx



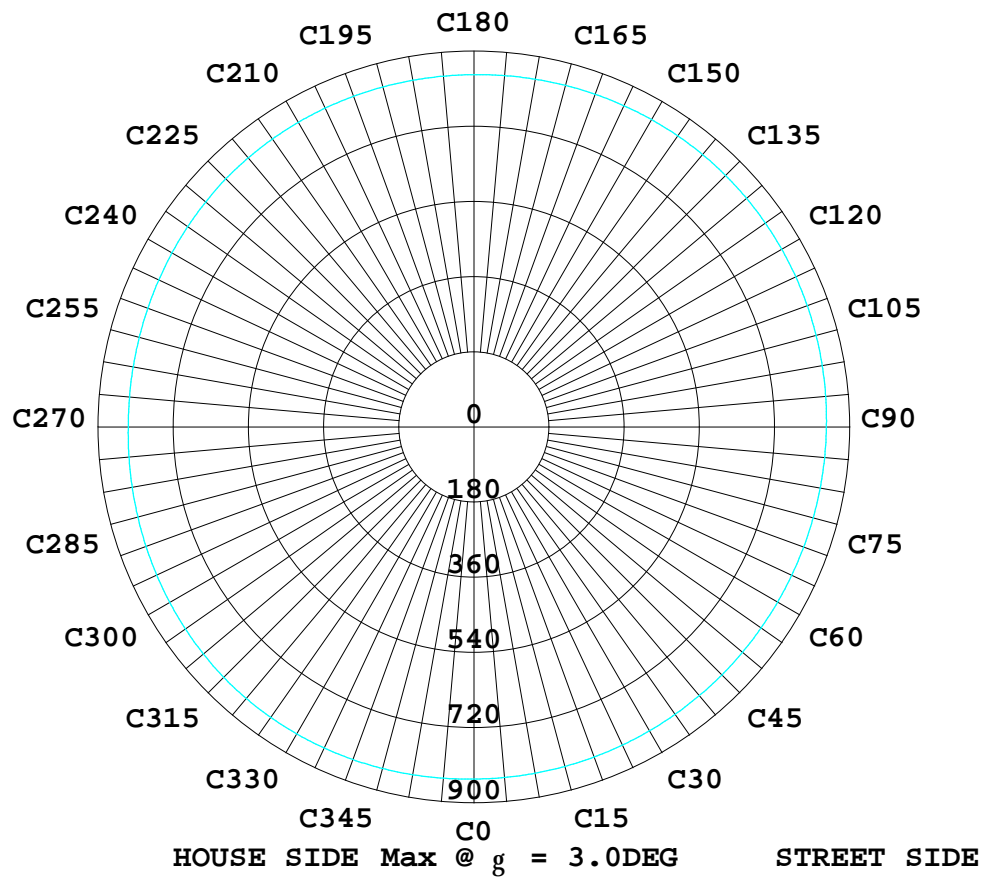
Test System: HOPOO HPG1800
Temperature: 25.3 DEG
Operators:
Test Date: 2021年12月03日

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: 51-RS-5050-24-112-12-X-Y RGB2700K6000K		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 5050 112D	CCT(K): 0	DIMENSION: 1M*0.012M	SERIAL No.: 20211203008



Test System: HOPOO HPG1800
Temperature: 25.3DEG
Operators:
Test Date: 2021年12月03日

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