

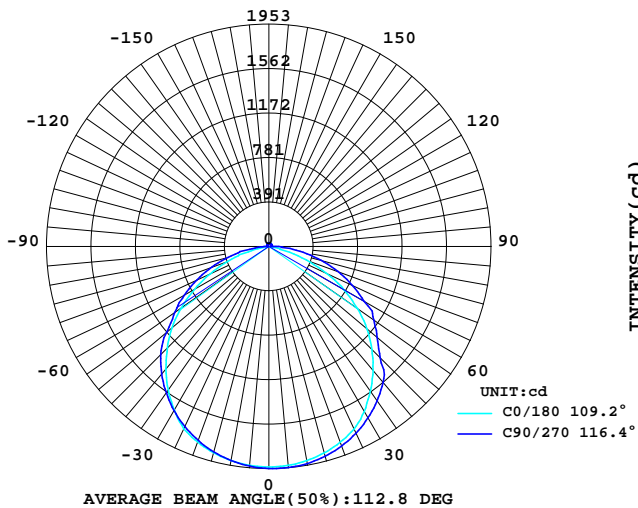
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

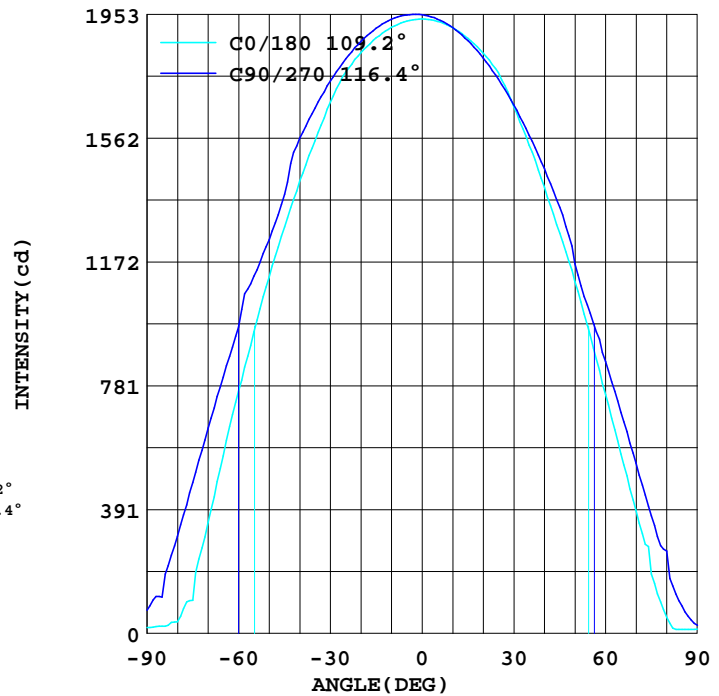
MANUFACTURER:			
Address:			
NAME:		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 2835 480D	CCT(K): 3000	DIMENSION: 1M*0.015M	SERIAL No.: 20211129006

DATA OF LAMP		Imax(cd)	1953	S/MH(C0/180)	1.27
MODEL	2835	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.33
NOMINAL POWER(W)	40	TOTAL FLUX(lm)	5834.4	Voltage(V)	24.01
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	149.3	Current(A)	1.627
NOMINAL FLUX(lm)	5834.5	h up(%)	2.4	Power(W)	39.09
LAMPS QUANTITY	1	h down(%)	97.6	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effective Flux(lm)	5608.7	EEL	0.095

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:		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 2835 480D	CCT(K): 3000	DIMENSION: 1M*0.015M	SERIAL No.: 20211129006

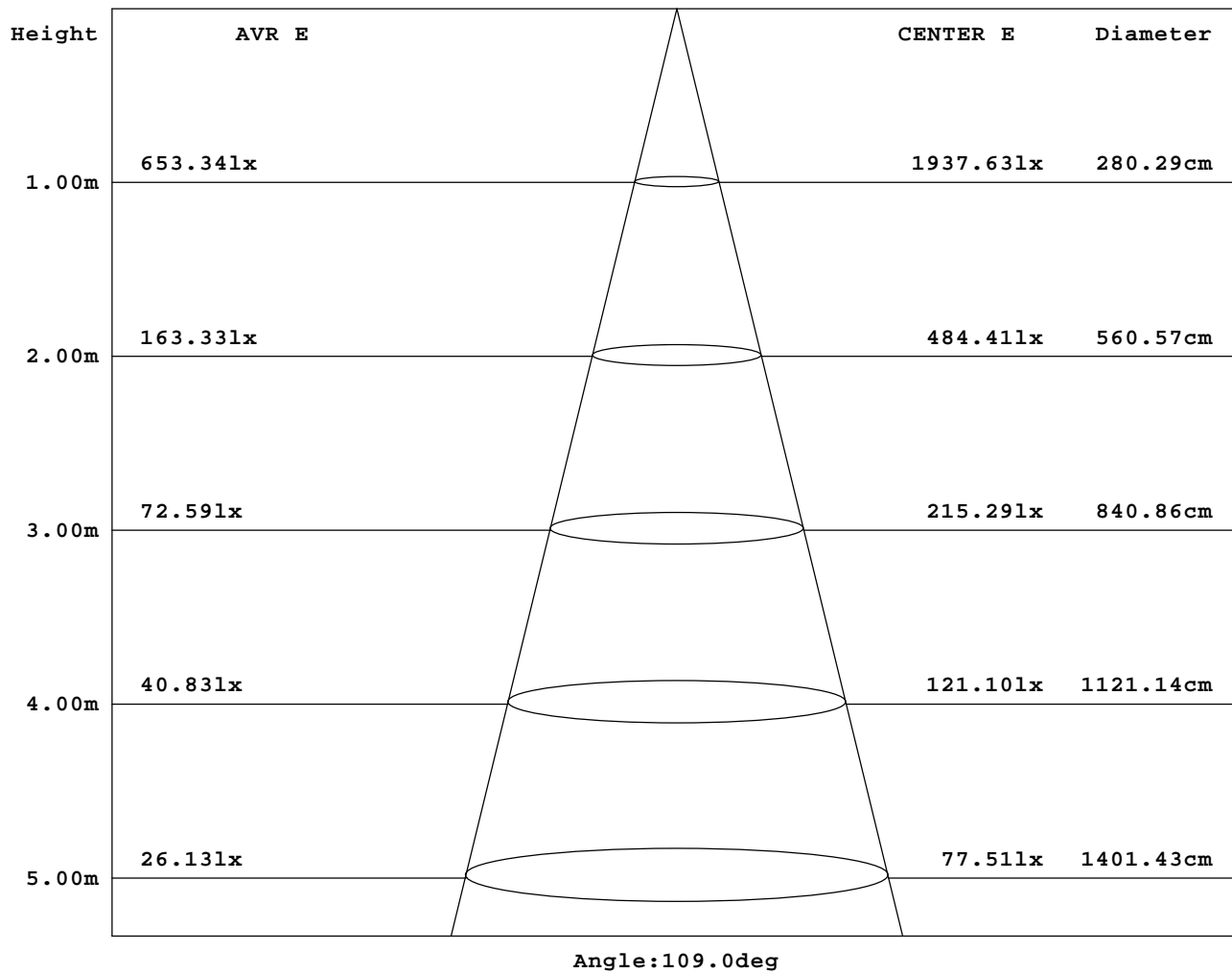
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年11月29日

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:	TYPE: LED Strip		WEIGHT:
SPECIFICATION: 2835 480D	CCT(K): 3000	DIMENSION: 1M*0.015M	SERIAL No.: 20211129006



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:		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 2835 480D	CCT(K): 3000	DIMENSION: 1M*0.015M	SERIAL No.: 20211129006

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tBtal
5.0	1931	1944	1950	1946	1930	1942	1937	1936	0- 5	46.45	46.45
10.0	1911	1925	1937	1927	1910	1920	1911	1914	5- 10	138.0	184.4
15.0	1878	1892	1908	1897	1877	1886	1869	1876	10- 15	225.6	410.1
20.0	1831	1846	1866	1855	1829	1838	1814	1825	15- 20	306.8	717.0
25.0	1770	1785	1812	1798	1769	1775	1748	1760	20- 25	379.1	1096
30.0	1675	1710	1742	1727	1662	1702	1666	1683	25- 30	439.5	1536
35.0	1553	1624	1657	1644	1539	1612	1570	1590	30- 35	485.1	2021
40.0	1426	1521	1561	1545	1408	1512	1466	1489	35- 40	515.4	2536
45.0	1282	1403	1385	1430	1262	1395	1344	1370	40- 45	528.1	3065
50.0	1124	1276	1241	1306	1110	1267	1166	1234	45- 50	520.8	3585
55.0	950.5	1080	1127	1112	939.5	1131	1010	1067	50- 55	493.8	4079
60.0	764.6	866.2	965.7	913.0	753.6	901.3	857.0	846.8	55- 60	443.6	4523
65.0	559.8	729.5	807.9	768.0	565.5	717.3	696.8	691.3	60- 65	377.3	4900
70.0	350.2	557.6	647.2	603.7	387.5	547.1	536.8	530.6	65- 70	305.8	5206
75.0	104.2	387.6	475.4	427.7	187.5	390.4	371.0	358.2	70- 75	229.2	5435
80.0	36.47	249.8	305.9	284.8	50.49	239.2	260.0	226.4	75- 80	143.9	5579
85.0	22.84	103.1	114.9	134.9	12.77	117.2	85.88	119.2	80- 85	78.47	5658
90.0	18.74	28.96	72.71	42.74	13.24	51.03	25.63	45.99	85- 90	34.14	5692
95.0	18.43	12.85	29.65	16.80	14.17	24.93	13.93	25.16	90- 95	14.02	5706
100.0	18.66	14.17	20.44	14.32	15.41	23.15	14.79	23.61	95-100	10.04	5716
105.0	19.12	15.48	19.74	15.56	16.64	23.54	16.03	24.16	100-105	9.835	5726
110.0	19.82	16.41	19.97	16.26	17.81	23.77	17.19	24.62	105-110	10.00	5736
115.0	20.52	17.65	20.52	17.34	19.05	23.77	18.43	24.39	110-115	10.03	5746
120.0	21.45	18.74	21.21	18.43	20.28	24.16	19.74	24.93	115-120	10.04	5756
125.0	22.45	19.82	22.07	19.43	21.52	24.78	20.90	25.47	120-125	9.967	5766
130.0	23.38	21.14	22.99	20.90	22.76	25.47	22.14	26.17	125-130	9.819	5776
135.0	24.47	22.38	24.00	22.22	24.00	26.40	23.38	27.02	130-135	9.569	5785
140.0	25.47	23.54	24.93	23.23	25.09	27.41	24.47	27.87	135-140	9.157	5794
145.0	26.40	24.54	25.86	24.31	26.09	28.11	25.40	28.42	140-145	8.580	5803
150.0	27.33	25.47	26.79	25.16	27.02	28.73	26.32	28.88	145-150	7.822	5811
155.0	28.11	26.25	27.64	25.94	27.80	29.34	27.10	29.34	150-155	6.914	5818
160.0	28.73	27.02	28.42	26.71	28.57	29.73	27.87	29.73	155-160	5.875	5823
165.0	29.34	27.64	29.11	27.33	29.11	29.96	28.42	29.96	160-165	4.716	5828
170.0	29.81	28.18	29.73	27.95	29.50	30.20	28.88	30.27	165-170	3.450	5832
175.0	30.20	28.57	30.20	28.42	29.73	30.27	29.11	30.35	170-175	2.107	5834
180.0	30.27	29.04	30.35	28.57	30.35	30.12	29.34	30.04	175-180	0.709	5834
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:

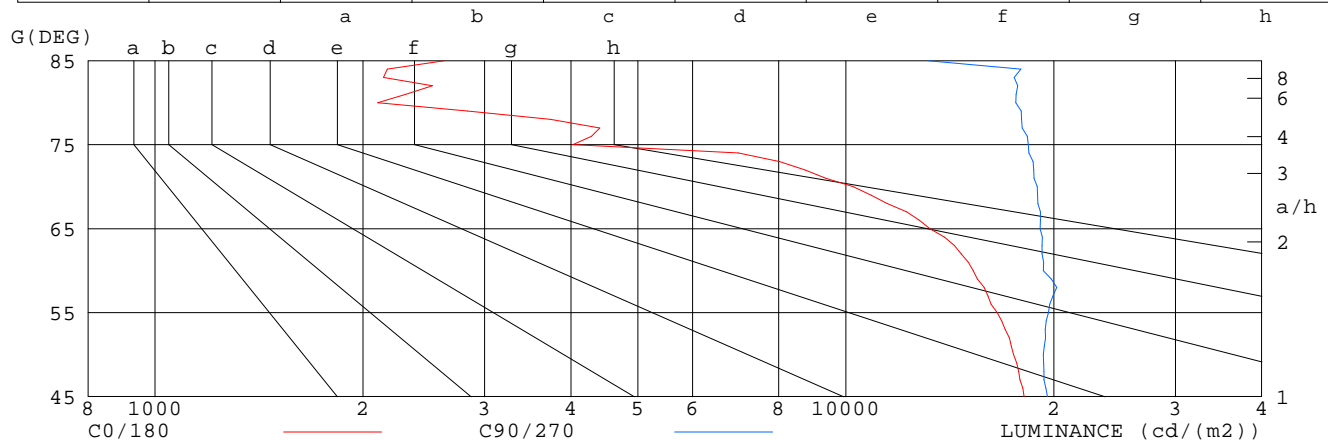
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 2835 480D	CCT(K): 3000	DIMENSION: 1M*0.015M	SERIAL No.: 20211129006

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	2621	13186
80	2100	17620
75	4027	18368
70	10241	18924
65	13248	19117
60	15293	19315
55	16573	19644
50	17492	19311
45	18128	19589

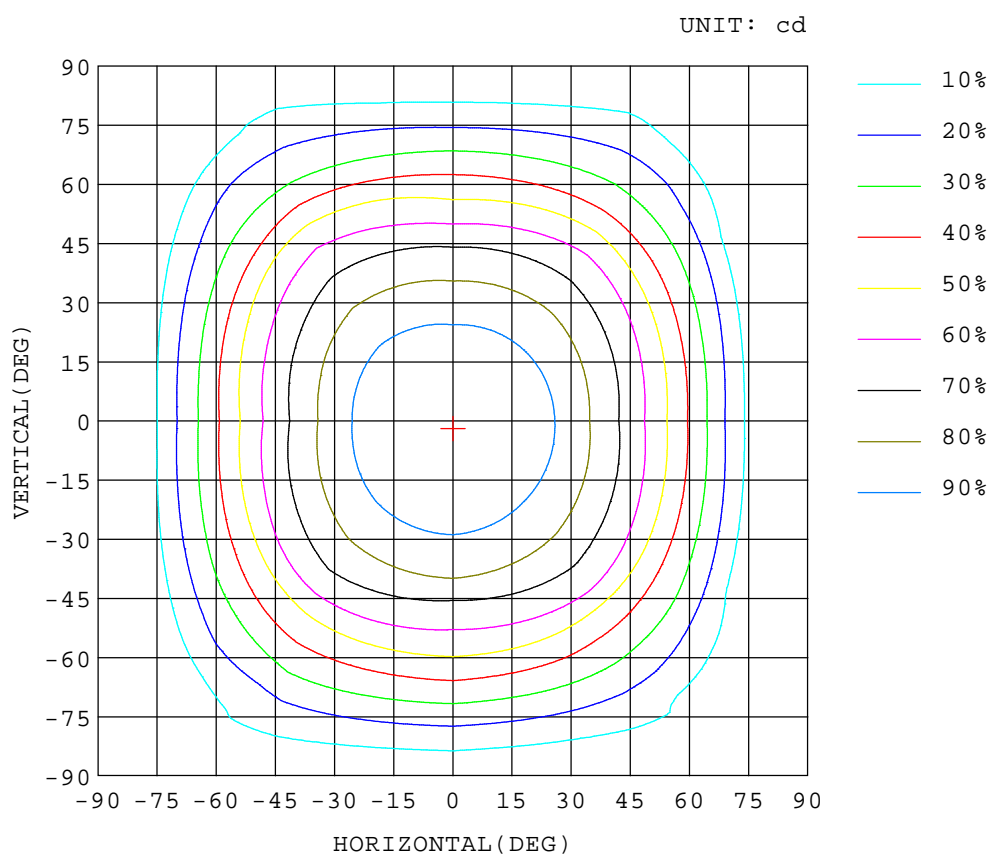
Test System: HOPOO HPG1800
 Temperature: 25.3 DEG
 Operators:
 Test Date: 2021年11月29日

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:		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 2835 480D	CCT(K): 3000	DIMENSION: 1M*0.015M	SERIAL No.: 20211129006



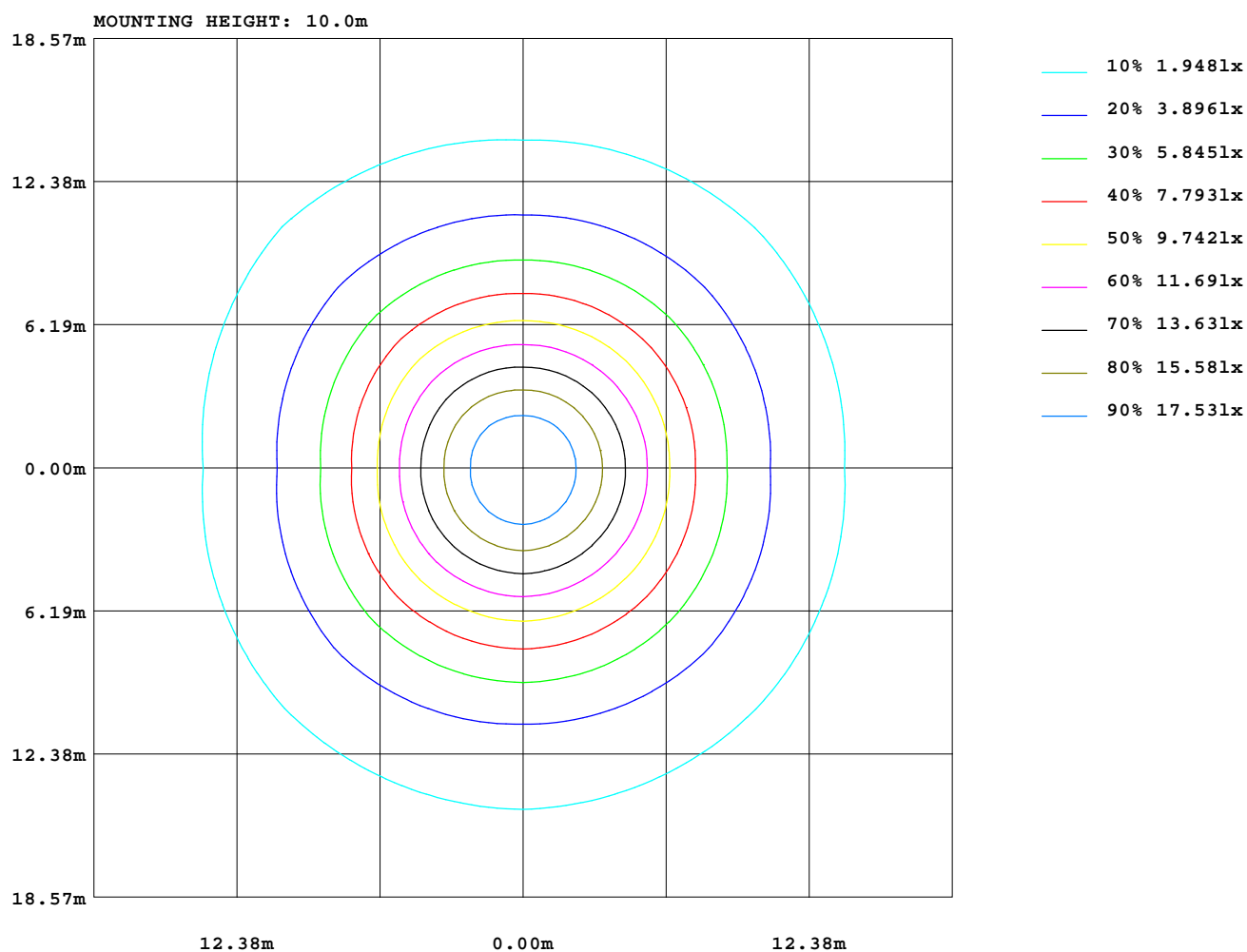
Test System:HOPOO HPG1800
Temperature:25.3DEG
Operators:
Test Date:2021年11月29日

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:		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 2835 480D	CCT(K): 3000	DIMENSION: 1M*0.015M	SERIAL No.: 20211129006



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:

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 2835 480D	CCT(K): 3000	DIMENSION: 1M*0.015M	SERIAL No.: 20211129006

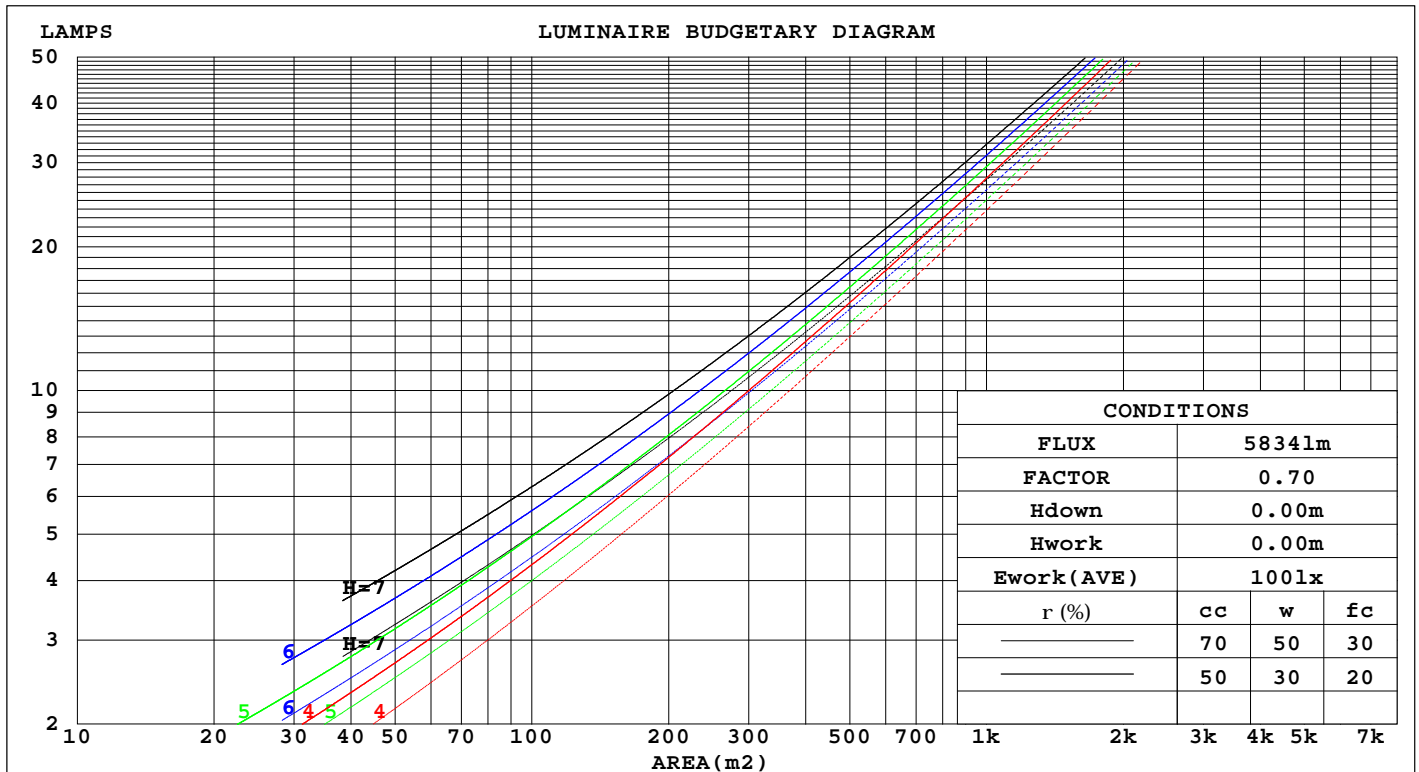
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.800 m
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 2835 480D	CCT(K): 3000	DIMENSION: 1M*0.015M	SERIAL No.: 20211129006

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	1.05	1.05	1.05	.00	.00	.00	.98
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	.76	.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	.60	.57
4.0	.70	.61	.55	.69	.60	.54	.66	.59	.53	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.57	.50	.45	.54	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.41	.53	.46	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.37	.30	.26	.36	.30	.25	.35	.29	.25	.23



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:						TYPE: LED Strip			WEIGHT:		
SPECIFICATION: 2835 480D				CCT(K): 3000			DIMENSION: 1M*0.015M			SERIAL No.: 20211129006	

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	.307	.175	.055	.299	.171	.054	.285	.163	.052	.271	.156	.050	.259	.150	.048	
2.0	.289	.158	.049	.282	.155	.048	.269	.150	.047	.257	.144	.045	.246	.139	.044	
3.0	.268	.143	.043	.262	.140	.042	.250	.136	.041	.240	.131	.040	.230	.127	.039	
4.0	.248	.129	.038	.242	.127	.037	.232	.123	.037	.222	.119	.036	.213	.116	.035	
5.0	.229	.117	.034	.224	.115	.034	.215	.112	.033	.206	.109	.032	.199	.106	.032	
6.0	.213	.107	.031	.208	.105	.030	.200	.103	.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	.181	.089	.025	.175	.087	.025	.169	.085	.025	.163	.084	.024	
9.0	.173	.084	.023	.170	.083	.023	.164	.081	.023	.159	.079	.023	.153	.078	.022	
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.150	.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	.209	.209	.209	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022		
1.0	.199	.175	.153	.170	.150	.132	.116	.103	.091	.067	.060	.053	.021	.019	.017		
2.0	.191	.151	.117	.163	.130	.101	.112	.090	.071	.065	.052	.041	.021	.017	.014		
3.0	.183	.133	.094	.157	.115	.081	.108	.080	.057	.062	.047	.034	.020	.015	.011		
4.0	.176	.120	.078	.151	.104	.067	.104	.072	.048	.060	.042	.028	.019	.014	.009		
5.0	.168	.110	.067	.144	.095	.058	.099	.066	.041	.058	.039	.024	.019	.013	.008		
6.0	.161	.101	.059	.138	.088	.051	.096	.061	.036	.055	.036	.021	.018	.012	.007		
7.0	.154	.095	.053	.133	.082	.046	.092	.057	.032	.053	.034	.019	.017	.011	.006		
8.0	.148	.089	.048	.127	.077	.042	.088	.054	.030	.051	.032	.018	.017	.010	.006		
9.0	.142	.084	.045	.122	.073	.039	.085	.051	.028	.049	.030	.016	.016	.010	.005		
10.0	.136	.080	.042	.117	.069	.037	.082	.049	.026	.048	.029	.015	.015	.009	.005		

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:					TYPE: LED Strip			WEIGHT:			
SPECIFICATION: 2835 480D		CCT(K): 3000			DIMENSION: 1M*0.015M			SERIAL No.: 20211129006			
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	22.5	24.0	22.8	24.2	24.5	23.3	24.7	23.6	25.0	25.2
	3H	23.5	24.9	23.8	25.2	25.4	24.9	26.3	25.3	26.6	26.9
	4H	23.7	25.0	24.0	25.3	25.6	25.7	27.0	26.0	27.3	27.6
	6H	23.7	24.9	24.0	25.2	25.5	26.2	27.4	26.6	27.8	28.1
	8H	23.6	24.8	24.0	25.1	25.5	26.4	27.6	26.8	27.9	28.3
	12H	23.6	24.7	24.0	25.1	25.4	26.6	27.7	27.0	28.0	28.4
4H	2H	23.2	24.5	23.5	24.8	25.1	23.8	25.1	24.1	25.4	25.7
	3H	24.4	25.6	24.8	25.9	26.2	25.6	26.8	26.0	27.1	27.5
	4H	24.7	25.7	25.1	26.1	26.5	26.5	27.5	26.9	27.9	28.3
	6H	24.8	25.7	25.2	26.1	26.5	27.2	28.1	27.6	28.5	28.9
	8H	24.8	25.6	25.2	26.1	26.5	27.5	28.3	27.9	28.7	29.2
	12H	24.8	25.6	25.2	26.0	26.4	27.7	28.4	28.1	28.9	29.3
8H	4H	25.1	26.0	25.6	26.4	26.8	26.7	27.5	27.1	27.9	28.4
	6H	25.4	26.1	25.9	26.5	27.0	27.6	28.3	28.0	28.7	29.2
	8H	25.4	26.1	25.9	26.5	27.0	27.9	28.6	28.4	29.0	29.5
	12H	25.5	26.0	26.0	26.5	27.0	28.2	28.7	28.7	29.2	29.8
12H	4H	25.2	25.9	25.6	26.4	26.8	26.7	27.4	27.1	27.9	28.3
	6H	25.5	26.1	26.0	26.6	27.1	27.6	28.2	28.1	28.7	29.2
	8H	25.6	26.1	26.1	26.6	27.2	28.0	28.5	28.5	29.0	29.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.3					+ 0.1 / - 0.2					
1.5H	+ 0.3 / - 0.5					+ 0.2 / - 0.3					
2.0H	+ 0.3 / - 0.6					+ 0.2 / - 0.3					

CIE Pub.117 Corrected 5834 lm Total Lamp Luminous Flux.(8log(F/F0) = 6.1)

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:		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 2835 480D	CCT(K): 3000	DIMENSION: 1M*0.015M	SERIAL No.: 20211129006

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) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	71	65	56	48
1.25	82	72	65	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	82	74	69	61
2.00	94	86	79	92	84	78	89	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		

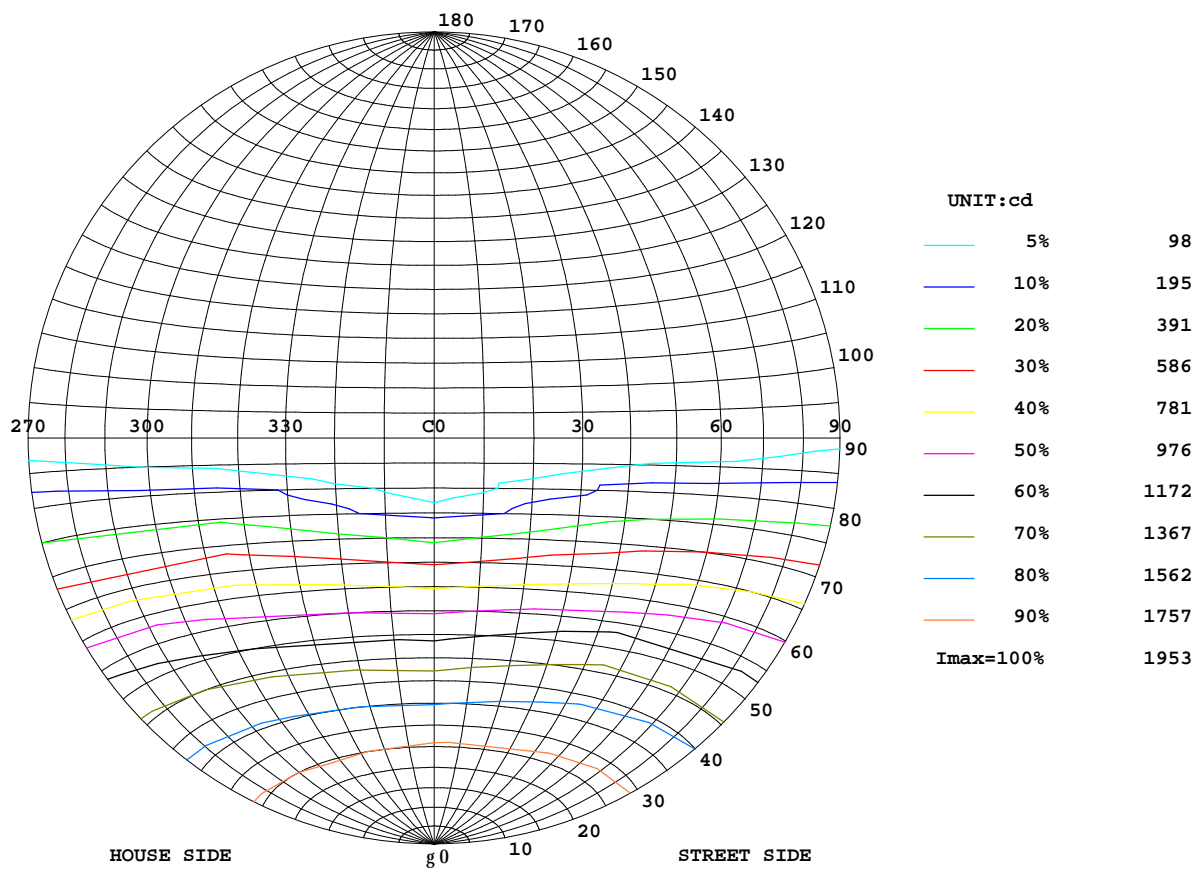
Test System:HOPOO HPG1800
 Temperature:25.3DEG
 Operators:
 Test Date:2021年11月29日

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:		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 2835 480D	CCT(K): 3000	DIMENSION: 1M*0.015M	SERIAL No.: 20211129006



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

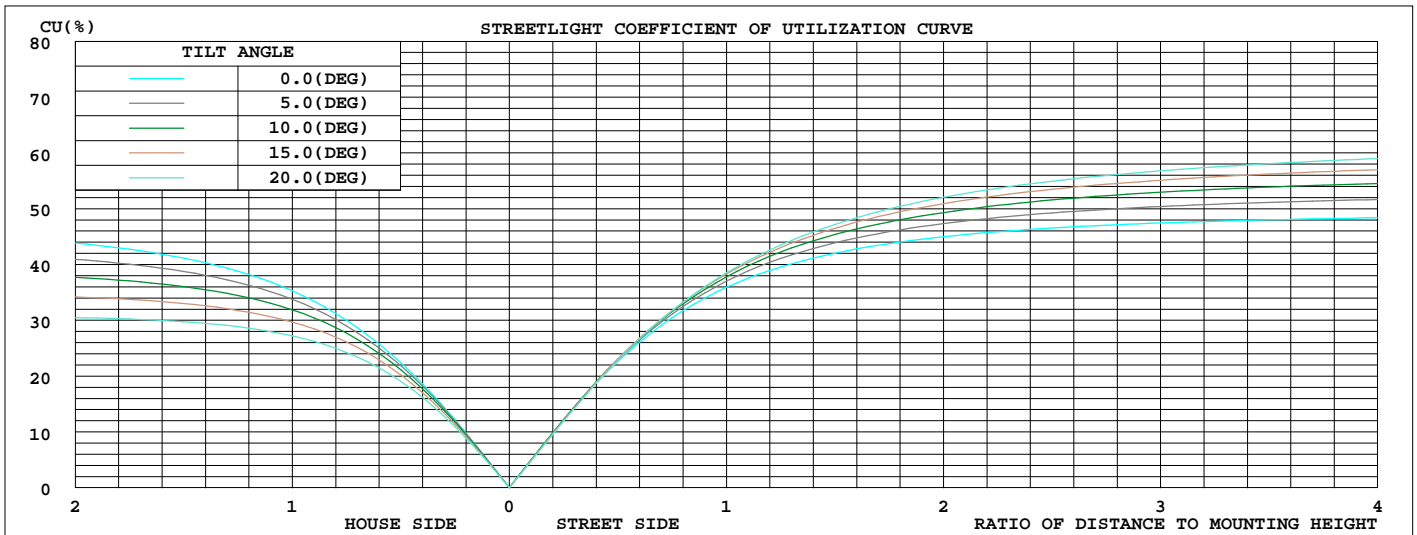
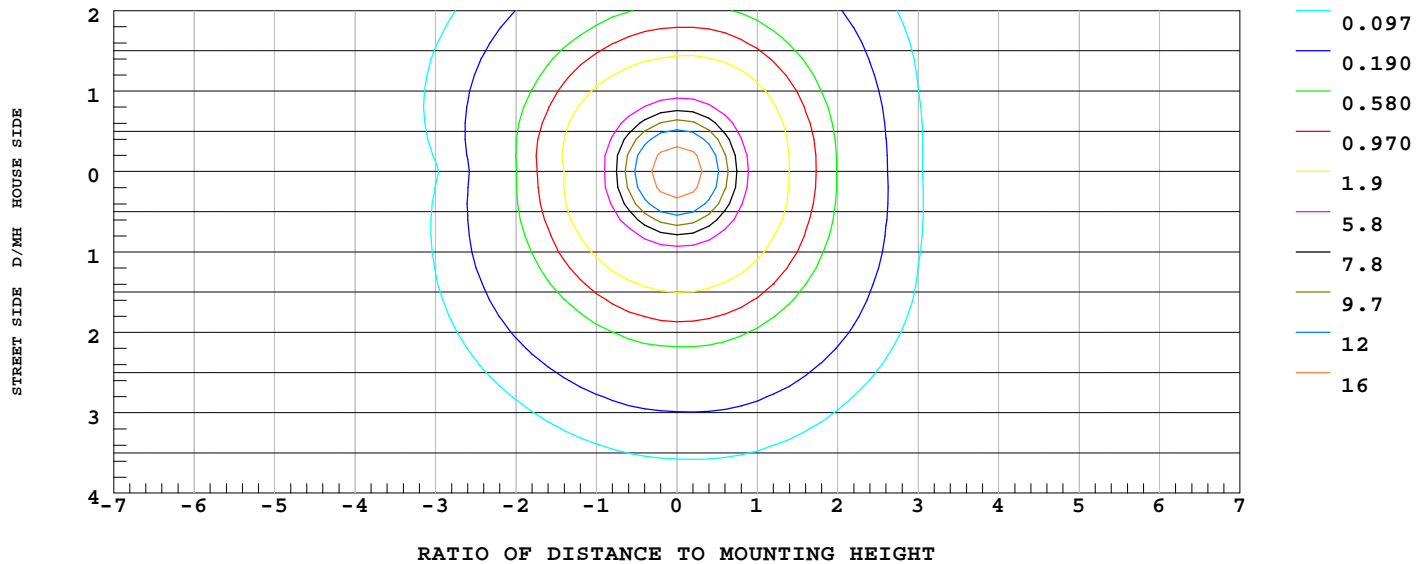
Test Set: 8.0deg/s C-Gamma (TYPE C)
Humidity:65.0%
Test Distance:8.800 m
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME:		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 2835 480D	CCT(K): 3000	DIMENSION: 1M*0.015M	SERIAL No.: 20211129006

ILLUMINANCE AT MH=10 m, Enadir = 19.38 lx



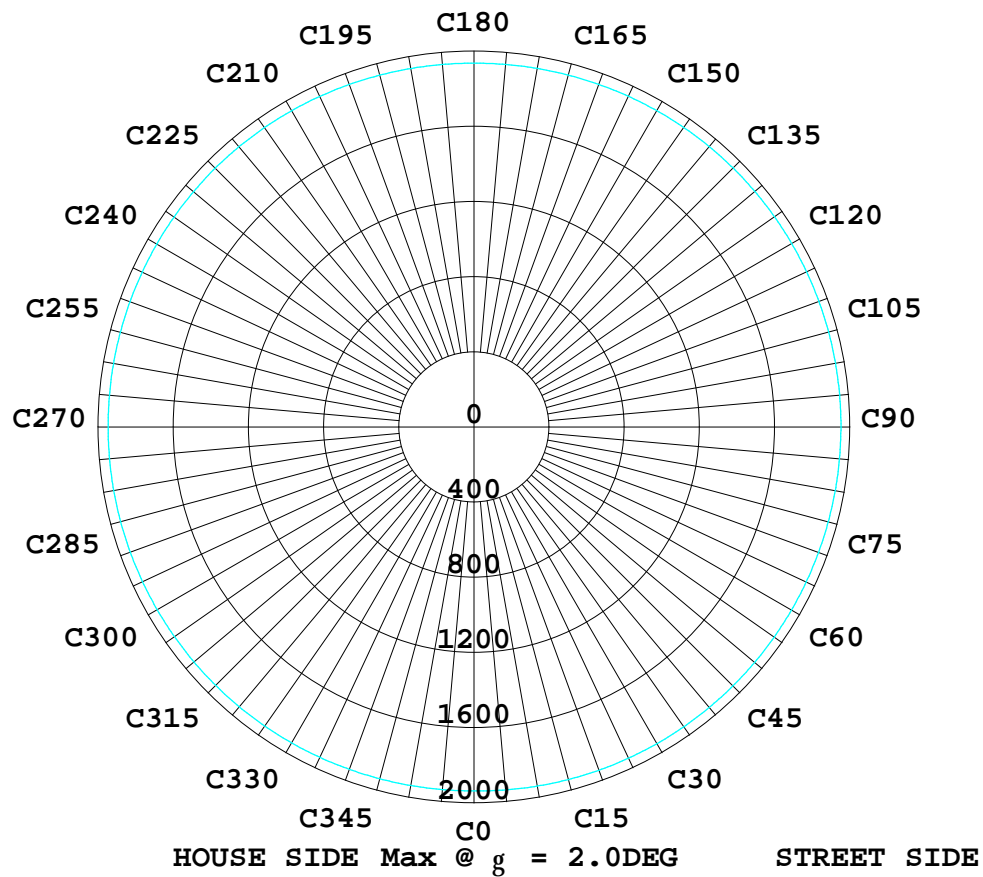
Test System: HOPOO HPG1800
Temperature: 25.3 DEG
Operators:
Test Date: 2021年11月29日

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:		TYPE: LED Strip	WEIGHT:
SPECIFICATION: 2835 480D	CCT(K): 3000	DIMENSION: 1M*0.015M	SERIAL No.: 20211129006



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: