

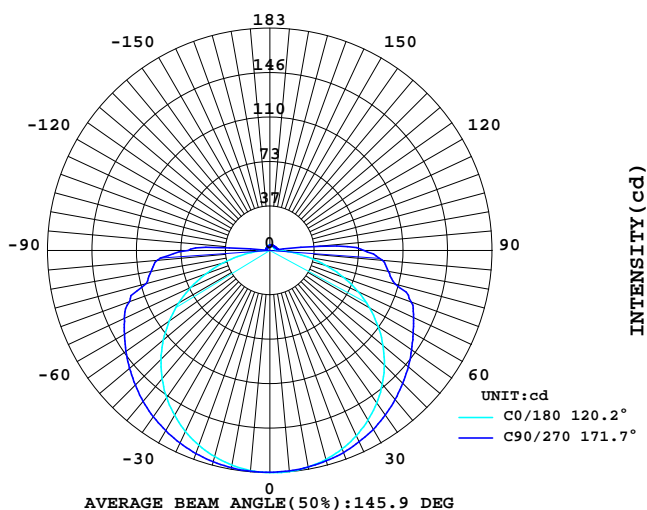
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

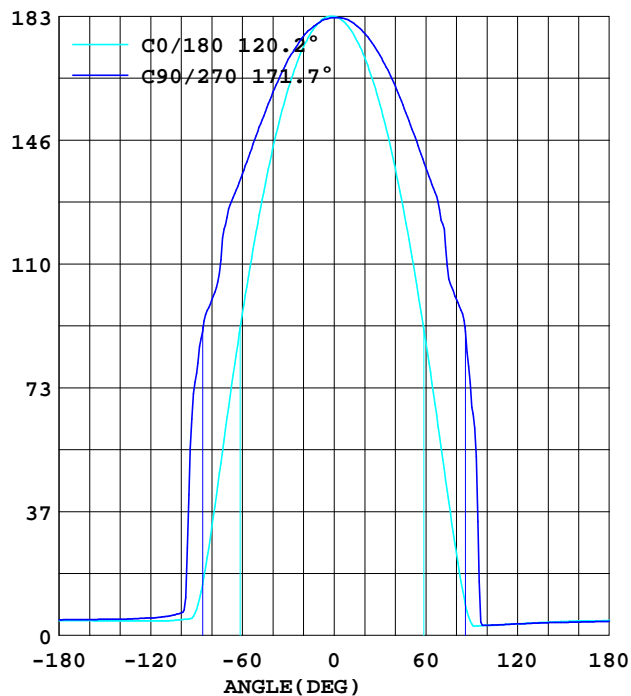
MANUFACTURER:			
Address:			
NAME: COB 528D 24V 16W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/528D	CCT(K): 3000	DIMENSION: 0.5M*0.01M	SERIAL No.: 20230107001

DATA OF LAMP		Imax(cd)	182.7	S/MH(C0/180)	1.31
MODEL	COB	EFFICIENCY(%)	100.0	S/MH(C90/270)	1.40
NOMINAL POWER(W)	8	TOTAL FLUX(lm)	775.81	Voltage(V)	23.95
RATED VOLTAGE(V)	24	EFFICIENCY(lm/W)	95.7	Current(A)	0.338
NOMINAL FLUX(lm)	775.8	h up(%)	5.6	Power(W)	8.110
LAMPS QUANTITY	1	h down(%)	94.4	Power Factor(PF)	1.000
TEST VOLTAGE(V)	24.0	Effective Flux(lm)	747.9	EEL	0.134

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.800 m  
 Remarks:

Color Temperature Data List

Report number:

MANUFACTURER:			
Address:			
NAME: COB 528D 24V 16W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/528D	CCT(K): 3000	DIMENSION: 0.5M*0.01M	SERIAL No.: 20230107001

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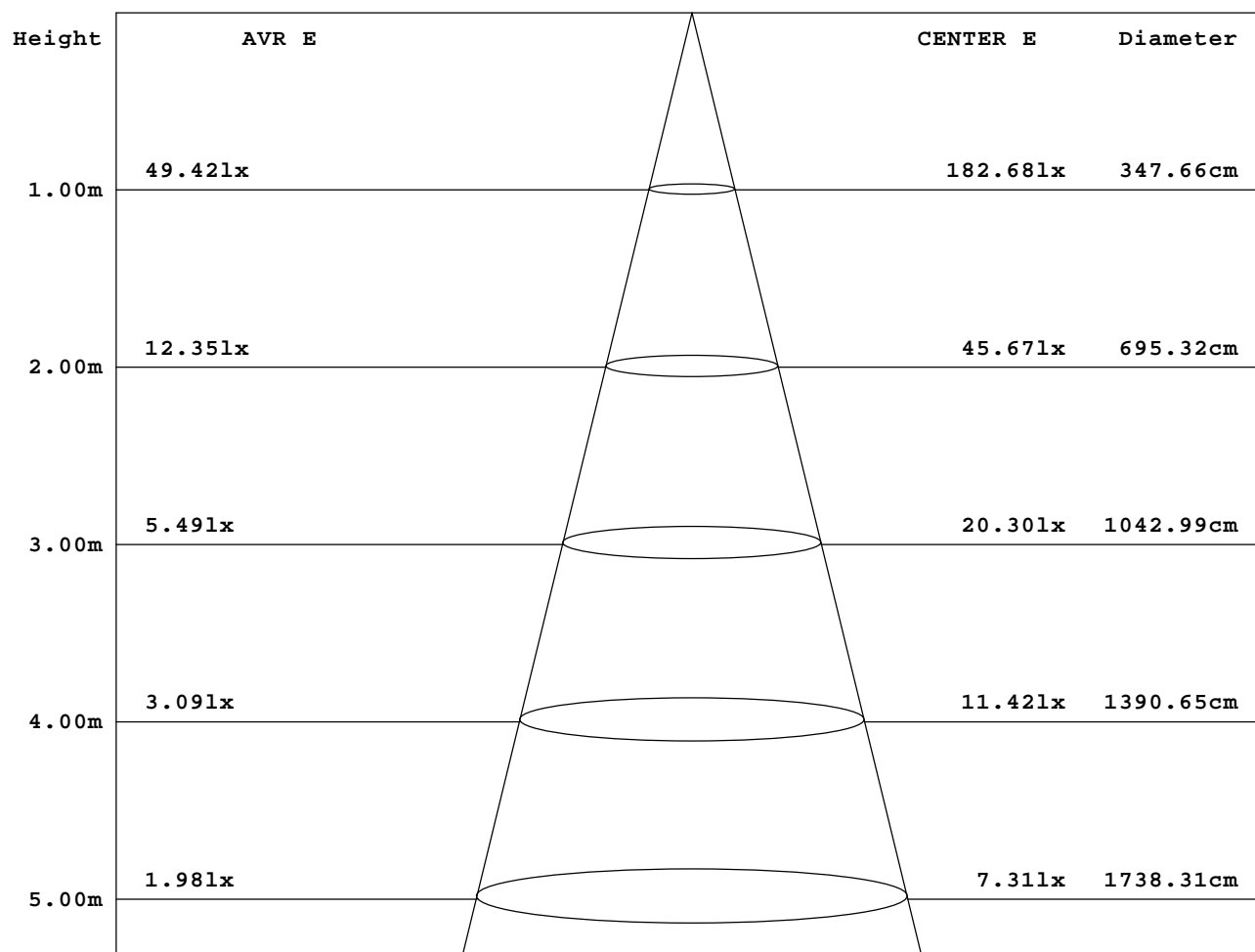
Test System:HOPOO HPG1800  
Temperature:25.3DEG  
Operators:  
Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:8.800 m  
Remarks:

AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER:			
Address:			
NAME: COB 528D 24V 16W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/528D	CCT(K): 3000	DIMENSION: 0.5M*0.01M	SERIAL No.: 20230107001



Angle:120.2deg

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.800 m  
 Remarks:

**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ZONAL FLUX DIAGRAM**

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME:</b> COB 528D 24V 16W 3000K 90		<b>TYPE:</b> LED Strip	<b>WEIGHT:</b>
<b>SPECIFICATION:</b> COB/528D	<b>CCT(K):</b> 3000	<b>DIMENSION:</b> 0.5M*0.01M	<b>SERIAL No.:</b> 20230107001

g	C0	C45	C90	C135	C180	C225	C270	C315	g	Zone	tBtal
5.0	182.5	181.5	181.9	180.9	181.6	182.6	182.2	181.9	0- 5	4.354	4.354
10.0	180.8	179.5	180.8	179.1	179.3	181.7	181.5	180.8	5- 10	12.96	17.32
15.0	177.9	176.4	179.1	176.1	175.4	179.9	179.8	179.1	10- 15	21.26	38.58
20.0	173.6	172.6	176.8	172.5	170.6	176.9	177.7	176.0	15- 20	29.06	67.65
25.0	168.0	167.8	173.5	168.0	164.3	173.0	174.7	172.3	20- 25	36.17	103.8
30.0	161.3	161.7	170.0	162.1	156.6	168.2	171.1	167.5	25- 30	42.40	146.2
35.0	153.1	155.1	165.3	155.7	147.9	162.6	167.0	161.6	30- 35	47.62	193.8
40.0	143.9	147.5	160.3	148.6	137.9	156.0	162.2	155.1	35- 40	51.73	245.6
45.0	133.2	139.2	154.5	140.3	126.6	148.9	156.5	148.0	40- 45	54.60	300.2
50.0	121.4	130.6	148.6	131.9	114.3	140.7	150.6	138.5	45- 50	56.21	356.4
55.0	108.7	121.1	142.4	122.8	100.8	131.9	144.5	124.7	50- 55	56.22	412.6
60.0	95.01	111.9	136.1	113.8	86.65	123.1	138.1	119.0	55- 60	55.50	468.1
65.0	79.84	102.5	130.4	104.6	71.55	113.9	132.0	111.1	60- 65	53.73	521.8
70.0	64.27	94.16	123.4	96.72	55.52	105.8	122.5	103.8	65- 70	51.13	573.0
75.0	47.85	86.57	106.7	89.05	39.41	98.34	105.1	97.72	70- 75	47.17	620.2
80.0	31.75	78.21	98.96	80.61	24.31	91.14	99.20	91.30	75- 80	42.31	662.5
85.0	17.65	69.61	92.77	72.01	11.15	83.17	92.85	84.09	80- 85	37.96	700.4
90.0	7.744	53.27	77.36	55.05	3.329	69.69	67.29	70.78	85- 90	32.20	732.6
95.0	4.878	2.865	41.58	3.639	2.865	11.69	15.95	11.30	90- 95	18.00	750.6
100.0	4.646	2.710	6.659	2.942	2.942	6.272	3.020	6.195	95-100	3.217	753.9
105.0	4.414	2.865	6.040	3.020	3.020	5.808	3.097	5.730	100-105	2.318	756.2
110.0	4.336	2.942	5.575	3.097	3.175	5.498	3.175	5.420	105-110	2.191	758.4
115.0	4.259	3.097	5.343	3.252	3.329	5.265	3.252	5.188	110-115	2.095	760.5
120.0	4.259	3.252	5.188	3.329	3.407	5.111	3.407	5.111	115-120	2.007	762.5
125.0	4.259	3.407	5.033	3.407	3.562	5.033	3.484	4.956	120-125	1.913	764.4
130.0	4.259	3.484	4.956	3.562	3.717	4.956	3.639	4.956	125-130	1.809	766.2
135.0	4.259	3.562	4.878	3.639	3.794	4.878	3.717	4.878	130-135	1.691	767.9
140.0	4.336	3.639	4.801	3.717	3.949	4.878	3.717	4.878	135-140	1.558	769.4
145.0	4.336	3.717	4.723	3.794	4.026	4.801	3.794	4.878	140-145	1.419	770.9
150.0	4.336	3.872	4.723	3.872	4.104	4.801	3.872	4.878	145-150	1.261	772.1
155.0	4.336	3.872	4.646	3.949	4.181	4.723	3.949	4.801	150-155	1.092	773.2
160.0	4.414	3.949	4.646	4.026	4.259	4.723	3.949	4.723	155-160	0.908	774.1
165.0	4.414	3.949	4.646	4.026	4.336	4.646	4.026	4.723	160-165	0.715	774.8
170.0	4.414	3.949	4.646	4.104	4.336	4.646	4.026	4.646	165-170	0.515	775.4
175.0	4.414	4.026	4.646	4.104	4.336	4.568	4.104	4.646	170-175	0.311	775.7
180.0	4.336	4.104	4.568	4.181	4.491	4.491	4.181	4.568	175-180	0.104	775.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.800 m  
 Remarks:

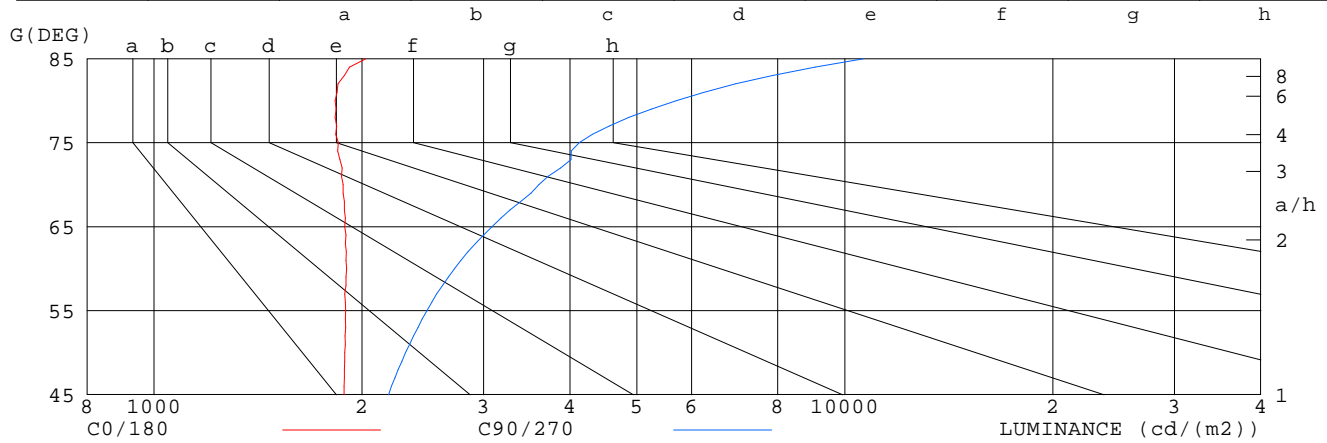
LUMINANCE LIMITATION CURVES

Report number:

MANUFACTURER:			
Address:			
NAME: COB 528D 24V 16W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/528D	CCT(K): 3000	DIMENSION: 0.5M*0.01M	SERIAL No.: 20230107001

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
		2000	1000	500	<=300				
1.15	A								
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



G (DEG)	LUMINANCE cd/m2	
	C0/180	C90/270
85	2026	10645
80	1828	5699
75	1849	4126
70	1879	3609
65	1889	3086
60	1900	2723
55	1896	2484
50	1889	2313
45	1885	2186

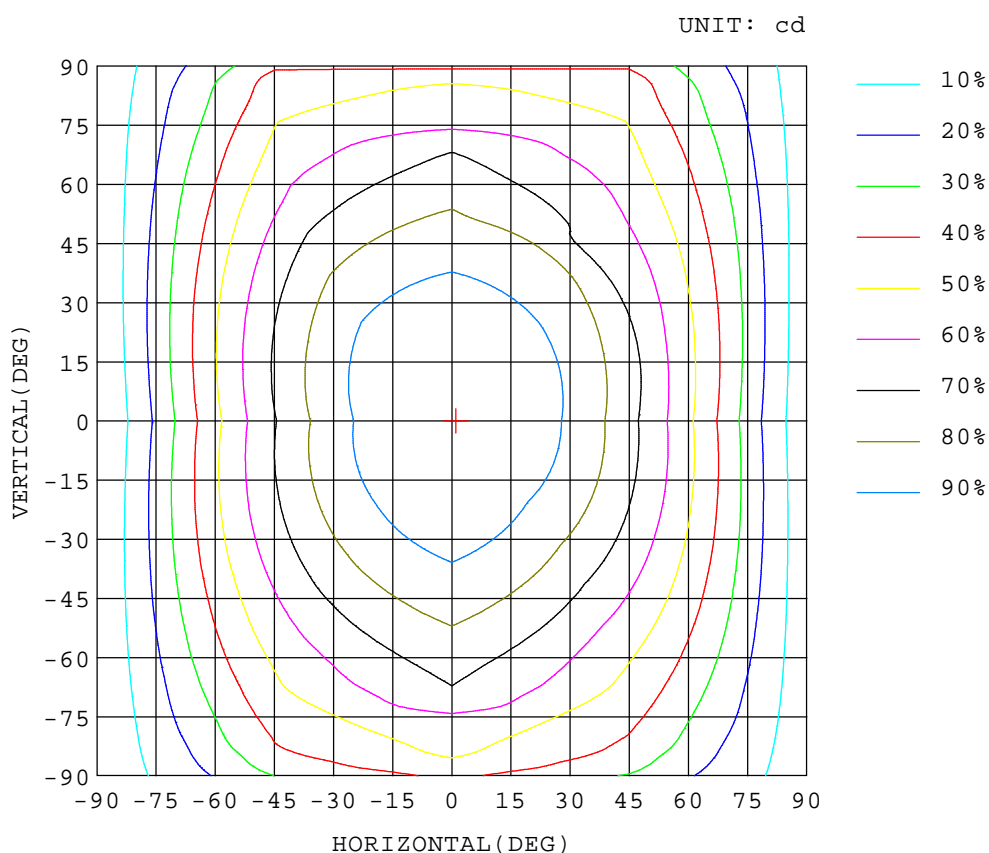
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.800 m  
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: COB 528D 24V 16W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/528D	CCT(K): 3000	DIMENSION: 0.5M*0.01M	SERIAL No.: 20230107001



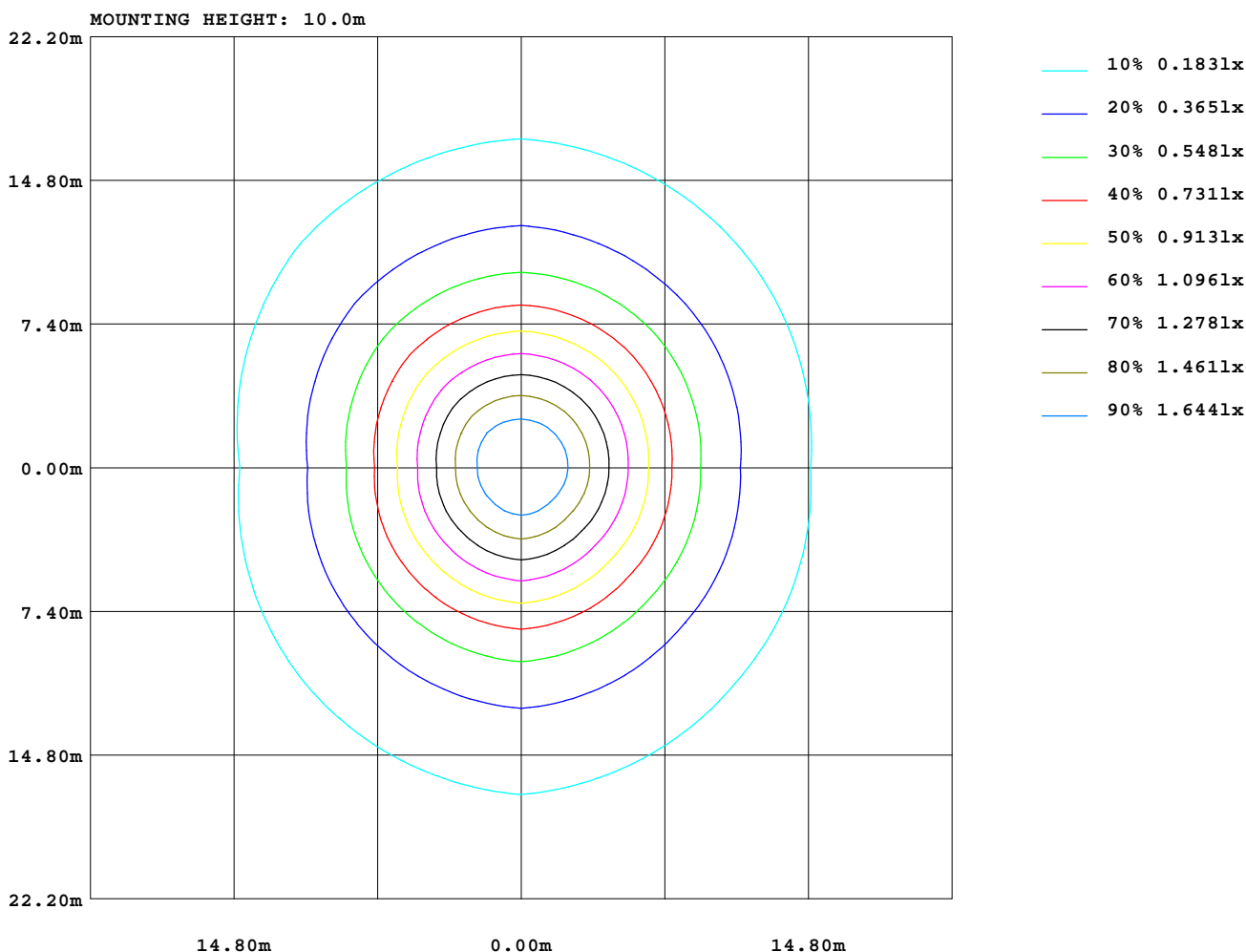
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.800 m  
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: COB 528D 24V 16W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/528D	CCT(K): 3000	DIMENSION: 0.5M*0.01M	SERIAL No.: 20230107001



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.800 m  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## AREA LUMINOUS FLUX

Report number:

MANUFACTURER:			
Address:			
NAME: COB 528D 24V 16W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/528D	CCT(K): 3000	DIMENSION: 0.5M*0.01M	SERIAL No.: 20230107001

VERTICAL( DEG )	AREA FLUX DIAGRAM																UNIT:lm		φ t	φ a
	90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	
90	0.04	0.23	0.59	1.10	1.68	2.05	2.33	2.54	2.67	2.67	2.55	2.34	2.07	1.70	1.13	0.63	0.26	0.05	26.6	26.6
80	0.04	0.26	0.68	1.26	1.92	2.39	2.76	3.06	3.26	3.25	3.05	2.75	2.38	1.93	1.29	0.73	0.30	0.05	31.4	31.3
70	0.04	0.29	0.77	1.40	2.11	2.71	3.22	3.63	3.91	3.90	3.60	3.18	2.67	2.10	1.43	0.81	0.33	0.06	36.2	36.2
60	0.05	0.32	0.84	1.52	2.29	3.01	3.59	4.03	4.31	4.29	3.96	3.50	2.93	2.26	1.55	0.89	0.36	0.06	39.8	39.7
50	0.05	0.34	0.90	1.64	2.47	3.29	3.94	4.41	4.69	4.69	4.39	3.85	3.14	2.44	1.67	0.96	0.38	0.06	43.3	43.3
40	0.05	0.35	0.95	1.74	2.63	3.51	4.24	4.74	5.02	5.01	4.72	4.22	3.49	2.59	1.78	1.01	0.40	0.06	46.5	46.5
30	0.05	0.36	0.97	1.80	2.74	3.66	4.45	4.99	5.26	5.26	4.97	4.44	3.69	2.77	1.86	1.04	0.41	0.07	48.8	48.8
20	0.05	0.35	0.98	1.82	2.79	3.73	4.55	5.15	5.43	5.42	5.14	4.58	3.80	2.87	1.90	1.06	0.41	0.06	50.1	50.1
10	0.04	0.34	0.95	1.79	2.76	3.72	4.56	5.18	5.50	5.50	5.21	4.63	3.83	2.88	1.91	1.05	0.40	0.06	50.3	50.3
0	0.04	0.33	0.95	1.78	2.74	3.69	4.52	5.13	5.46	5.48	5.18	4.61	3.80	2.86	1.91	1.04	0.40	0.06	50.0	50.0
-10	0.05	0.35	0.96	1.79	2.73	3.65	4.45	5.03	5.37	5.37	5.04	4.48	3.72	2.82	1.89	1.04	0.40	0.06	49.2	49.2
-20	0.05	0.35	0.94	1.74	2.64	3.52	4.28	4.85	5.20	5.19	4.85	4.28	3.55	2.70	1.82	1.01	0.40	0.06	47.4	47.4
-30	0.05	0.34	0.91	1.66	2.50	3.32	4.04	4.60	4.93	4.93	4.58	4.02	3.32	2.53	1.71	0.97	0.38	0.06	44.9	44.8
-40	0.05	0.32	0.85	1.54	2.32	3.08	3.74	4.26	4.60	4.59	4.25	3.71	3.04	2.32	1.58	0.90	0.36	0.06	41.6	41.6
-50	0.04	0.29	0.78	1.42	2.12	2.80	3.40	3.89	4.22	4.22	3.87	3.37	2.75	2.10	1.44	0.82	0.33	0.06	37.9	37.9
-60	0.04	0.26	0.70	1.27	1.93	2.53	3.06	3.51	3.85	3.84	3.49	3.02	2.47	1.89	1.28	0.73	0.29	0.05	34.2	34.2
-70	0.04	0.23	0.60	1.11	1.71	2.19	2.61	2.97	3.24	3.23	2.95	2.57	2.14	1.67	1.11	0.63	0.25	0.05	29.3	29.2
-80	0.03	0.19	0.49	0.92	1.42	1.81	2.16	2.45	2.68	2.67	2.43	2.13	1.77	1.38	0.91	0.50	0.21	0.04	24.2	24.1
-90																				
φ t	0.78	5.49	14.8	27.3	41.5	54.7	65.9	74.5	79.6	79.5	74.3	65.7	54.6	41.8	28.2	15.8	6.28	1.04	776	
φ a	0.42	5.48	14.8	27.3	41.5	54.7	65.9	74.5	79.6	79.5	74.3	65.7	54.6	41.8	28.2	15.8	6.28	0.82		748

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.800 m  
 Remarks:



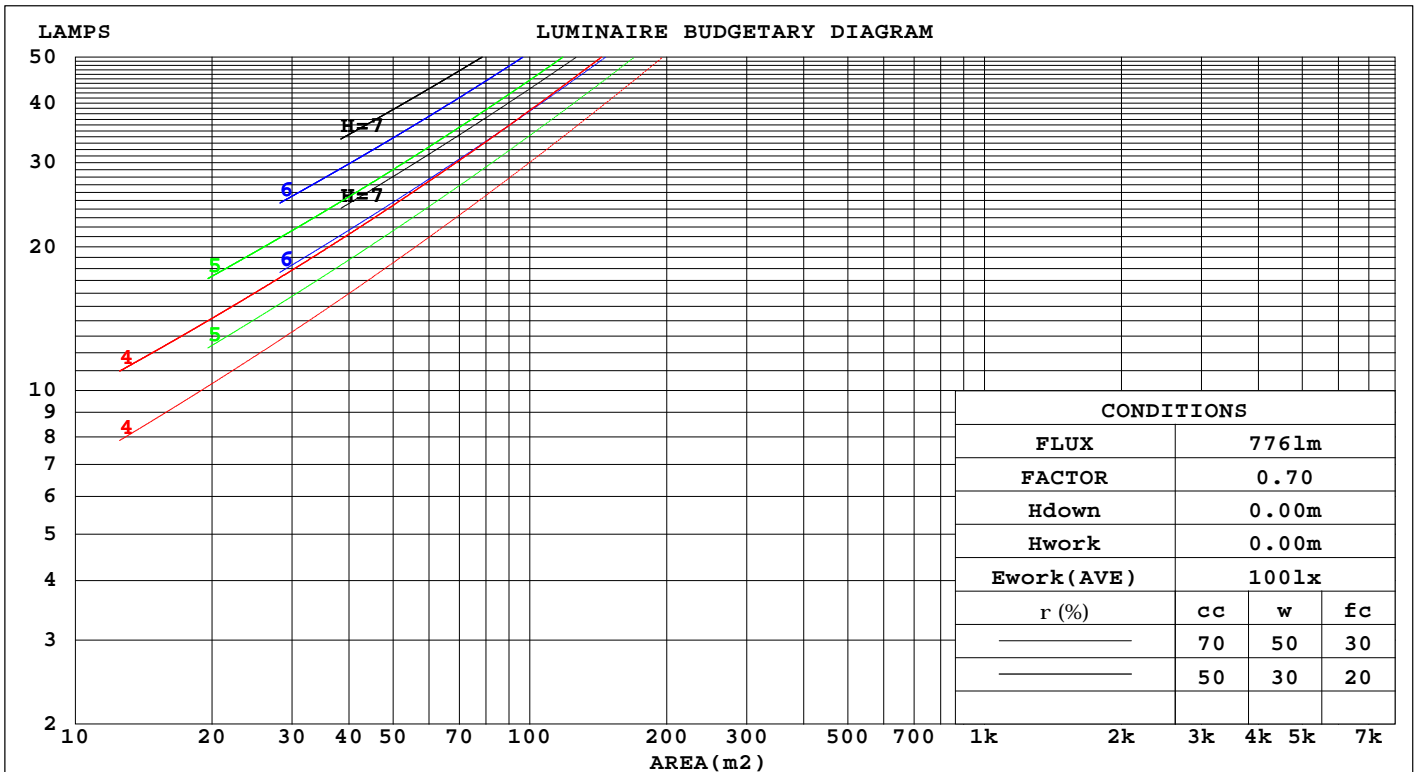
GONIOPHOTOMETERS SYSTEM TEST REPORT

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: COB 528D 24V 16W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/528D	CCT(K): 3000	DIMENSION: 0.5M*0.01M	SERIAL No.: 20230107001

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 <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.14	1.14	1.14	1.08	1.08	1.08	1.02	1.02	1.02	.97	.97	.97	.94
1.0	.97	.91	.86	.94	.89	.84	.89	.84	.80	.84	.80	.77	.79	.76	.74	.71
2.0	.83	.74	.67	.80	.72	.66	.75	.69	.63	.71	.66	.61	.67	.63	.59	.56
3.0	.71	.62	.54	.69	.60	.53	.65	.58	.52	.62	.55	.50	.58	.53	.48	.46
4.0	.62	.53	.45	.61	.51	.44	.57	.49	.43	.54	.47	.42	.51	.45	.41	.38
5.0	.55	.45	.38	.54	.45	.38	.51	.43	.37	.48	.41	.36	.46	.40	.35	.32
6.0	.50	.40	.33	.48	.39	.32	.46	.38	.32	.44	.36	.31	.41	.35	.30	.28
7.0	.45	.35	.29	.44	.35	.28	.41	.34	.28	.39	.32	.27	.38	.31	.27	.24
8.0	.41	.32	.25	.40	.31	.25	.38	.30	.25	.36	.29	.24	.34	.28	.24	.21
9.0	.37	.28	.23	.36	.28	.22	.35	.27	.22	.33	.26	.22	.32	.26	.21	.19
10.0	.34	.26	.20	.33	.26	.20	.32	.25	.20	.31	.24	.19	.29	.23	.19	.17



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.800 m  
 Remarks:

**GONIOPHOTOMETERS SYSTEM TEST REPORT**

**WEC AND CCEC**

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME:</b> COB 528D 24V 16W 3000K 90		<b>TYPE:</b> LED Strip	<b>WEIGHT:</b>
<b>SPECIFICATION:</b> COB/528D	<b>CCT(K):</b> 3000	<b>DIMENSION:</b> 0.5M*0.01M	<b>SERIAL No.:</b> 20230107001

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
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Wall Exitance Coefficients(WEC)</b>									
0.0																
1.0	.414	.235	.075	.405	.231	.073	.388	.222	.071	.372	.215	.069	.358	.207	.067	
2.0	.355	.194	.060	.346	.191	.059	.331	.184	.057	.317	.178	.056	.304	.172	.054	
3.0	.313	.166	.050	.306	.164	.049	.292	.158	.048	.279	.153	.047	.268	.148	.046	
4.0	.280	.146	.043	.274	.143	.042	.261	.139	.041	.250	.134	.041	.240	.130	.040	
5.0	.254	.129	.037	.248	.127	.037	.237	.123	.036	.227	.120	.036	.217	.116	.035	
6.0	.232	.116	.033	.226	.114	.033	.217	.111	.032	.207	.108	.032	.199	.105	.031	
7.0	.213	.105	.030	.208	.104	.030	.199	.101	.029	.191	.098	.029	.183	.095	.028	
8.0	.197	.096	.027	.193	.095	.027	.185	.092	.026	.177	.090	.026	.170	.087	.025	
9.0	.183	.089	.025	.180	.087	.025	.172	.085	.024	.165	.083	.024	.159	.081	.023	
10.0	.171	.082	.023	.168	.081	.023	.161	.079	.022	.155	.077	.022	.149	.075	.022	

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
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients(CCEC)</b>									
0.0	.233	.233	.233	.199	.199	.199	.136	.136	.136	.078	.078	.078	.025	.025	.025	
1.0	.230	.198	.169	.197	.170	.145	.135	.117	.100	.078	.068	.058	.025	.022	.019	
2.0	.224	.175	.133	.192	.150	.115	.131	.104	.080	.076	.060	.047	.024	.020	.015	
3.0	.216	.158	.111	.185	.136	.097	.127	.095	.068	.073	.055	.040	.024	.018	.013	
4.0	.208	.145	.097	.178	.125	.084	.123	.087	.059	.071	.051	.035	.023	.017	.012	
5.0	.200	.135	.087	.172	.117	.076	.118	.082	.054	.068	.048	.032	.022	.016	.010	
6.0	.192	.127	.080	.165	.110	.070	.114	.077	.049	.066	.045	.029	.021	.015	.010	
7.0	.185	.120	.075	.159	.104	.065	.110	.073	.046	.064	.043	.028	.021	.014	.009	
8.0	.178	.114	.071	.153	.099	.062	.106	.070	.044	.062	.041	.026	.020	.013	.009	
9.0	.171	.110	.068	.147	.095	.059	.102	.067	.042	.059	.039	.025	.019	.013	.008	
10.0	.165	.105	.066	.142	.091	.057	.099	.064	.041	.057	.038	.024	.019	.012	.008	

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

Test Set: 5.0deg/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: COB 528D 24V 16W 3000K 90					TYPE: LED Strip			WEIGHT:		
SPECIFICATION: COB/528D			CCT(K): 3000		DIMENSION: 0.5M*0.01M			SERIAL No.: 20230107001		
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	14.5	16.1	14.8	16.4	16.7	15.8	17.4	16.1	17.7	18.0
3H	16.4	17.9	16.8	18.2	18.6	18.6	20.1	19.0	20.4	20.8
4H	17.2	18.6	17.6	19.0	19.4	20.1	21.5	20.5	21.9	22.3
6H	17.9	19.2	18.3	19.6	20.0	21.6	23.0	22.1	23.4	23.8
8H	18.2	19.5	18.6	19.9	20.3	22.6	23.9	23.0	24.3	24.7
12H	18.4	19.6	18.8	20.1	20.5	23.6	24.9	24.1	25.3	25.7
4H 2H	15.5	16.9	15.9	17.3	17.7	16.4	17.9	16.8	18.2	18.6
3H	17.6	18.9	18.1	19.3	19.7	19.5	20.7	19.9	21.1	21.6
4H	18.7	19.9	19.2	20.3	20.8	21.1	22.3	21.6	22.7	23.2
6H	19.6	20.7	20.1	21.1	21.6	22.9	23.9	23.4	24.4	24.9
8H	20.0	21.0	20.5	21.5	22.0	23.9	24.9	24.4	25.4	25.9
12H	20.3	21.2	20.8	21.7	22.3	25.2	26.1	25.7	26.6	27.1
8H 4H	19.6	20.6	20.1	21.1	21.6	21.5	22.5	22.0	23.0	23.5
6H	20.9	21.8	21.4	22.3	22.8	23.6	24.5	24.1	25.0	25.5
8H	21.5	22.3	22.1	22.8	23.4	24.9	25.6	25.4	26.1	26.7
12H	22.1	22.8	22.6	23.3	23.9	26.3	27.0	26.9	27.6	28.2
12H 4H	19.9	20.8	20.4	21.3	21.8	21.6	22.5	22.1	23.0	23.5
6H	21.4	22.2	21.9	22.7	23.3	23.8	24.6	24.3	25.1	25.7
8H	22.2	22.8	22.7	23.4	24.0	25.1	25.8	25.7	26.4	27.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 775.8 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.9)

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.800 m  
 Remarks:

# GONIOPHOTOMETERS SYSTEM TEST REPORT

## UTILIZATION FACTORS TABLE

Report number:

<b>MANUFACTURER:</b>			
<b>Address:</b>			
<b>NAME:</b> COB 528D 24V 16W 3000K 90		<b>TYPE:</b> LED Strip	<b>WEIGHT:</b>
<b>SPECIFICATION:</b> COB/528D	<b>CCT(K):</b> 3000	<b>DIMENSION:</b> 0.5M*0.01M	<b>SERIAL No.:</b> 20230107001

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
<b>ROOM INDEX</b>	<b>UTILIZATION FACTORS (PERCENT) <math>k(RI) \times RCR = 5</math></b>									
<b>k = 0.60</b>	50	38	30	49	37	30	48	37	30	23
<b>0.80</b>	60	46	38	58	46	38	56	45	37	30
<b>1.00</b>	67	54	46	66	54	46	63	55	45	37
<b>1.25</b>	74	62	53	72	61	53	69	59	52	43
<b>1.50</b>	79	67	59	77	66	58	74	64	57	47
<b>2.00</b>	87	76	68	84	74	67	80	71	65	55
<b>2.50</b>	91	81	73	89	79	72	84	76	70	59
<b>3.00</b>	95	86	78	92	84	77	87	80	74	64
<b>4.00</b>	100	92	85	97	90	84	91	85	80	69
<b>5.00</b>	103	96	90	100	93	88	94	89	84	73
<b>ROOM INDEX</b>	<b>UF(total)</b>									<b>Direct</b>
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

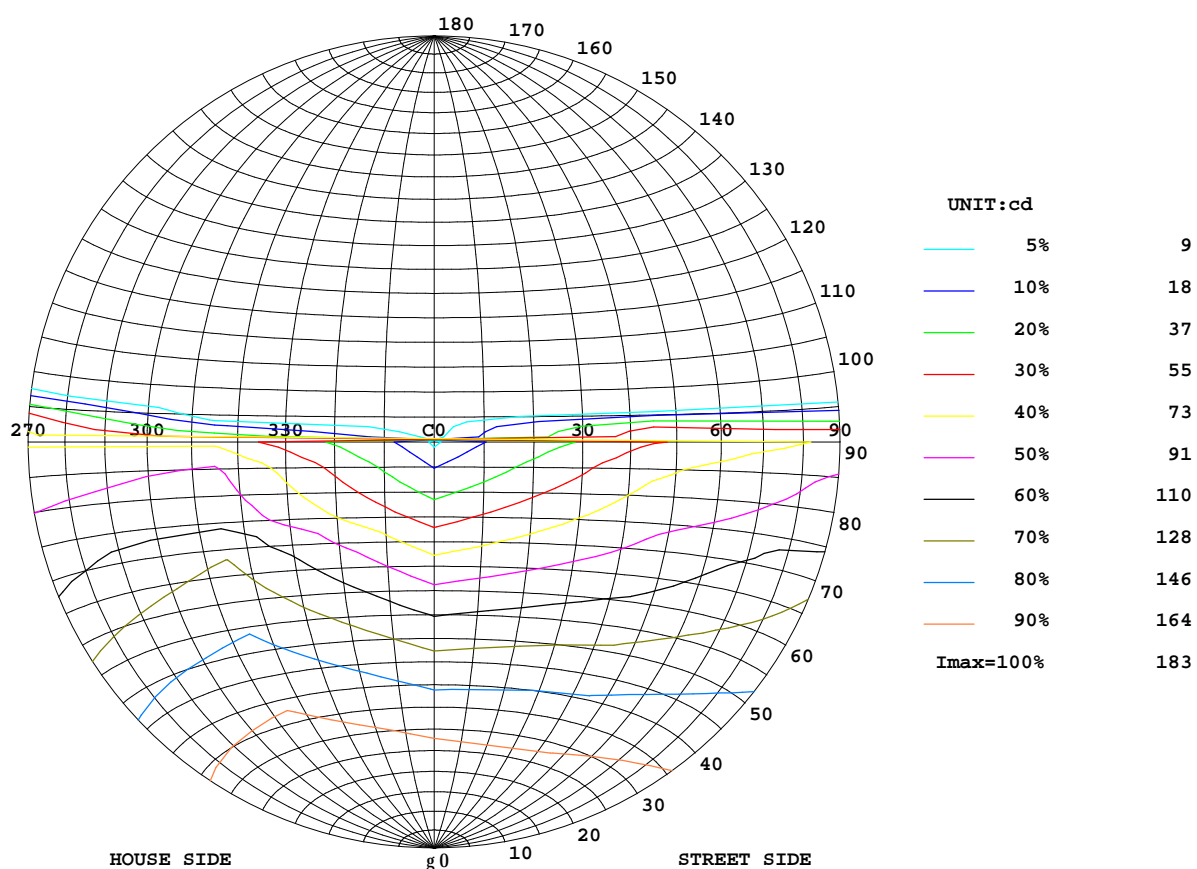
**Test System:** HOPOO HPG1800  
**Temperature:** 25.3DEG  
**Operators:**  
**Test Date:** 2023年01月07日

**Test Set:** 5.0deg/s C-Gamma (TYPE C)  
**Humidity:** 65.0%  
**Test Distance:** 8.800 m  
**Remarks:**

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: COB 528D 24V 16W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/528D	CCT(K): 3000	DIMENSION: 0.5M*0.01M	SERIAL No.: 20230107001



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

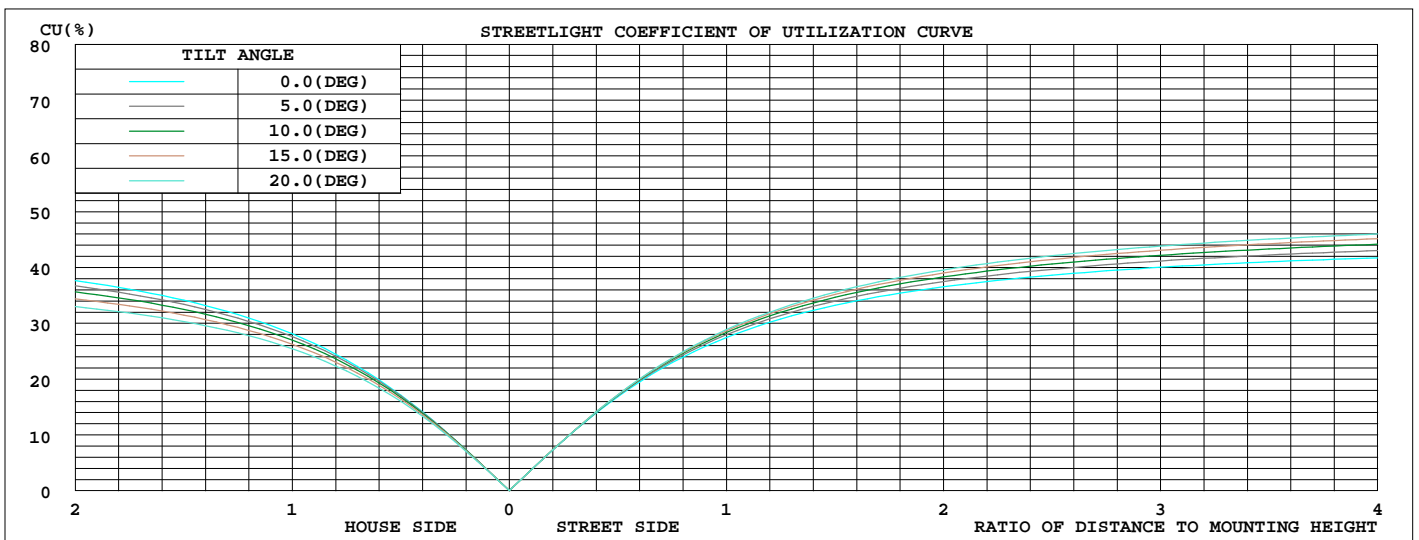
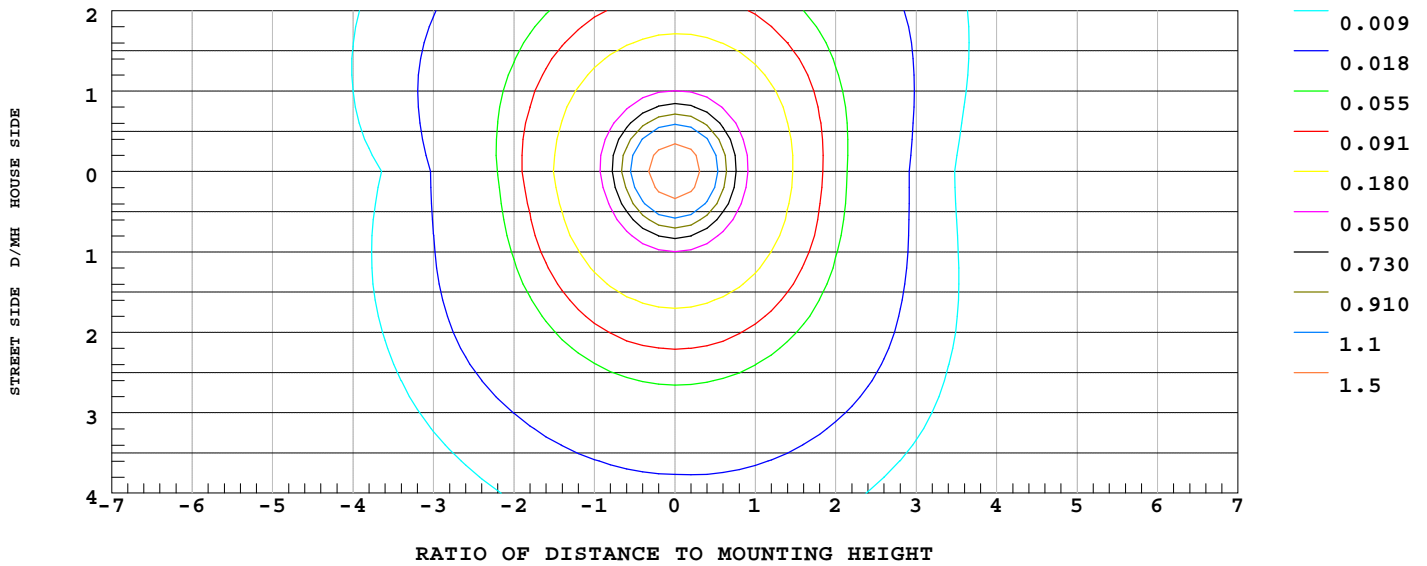
Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.800 m  
 Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: COB 528D 24V 16W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/528D	CCT(K): 3000	DIMENSION: 0.5M*0.01M	SERIAL No.: 20230107001

ILLUMINANCE AT MH=10 m, Enadir = 1.83 lx



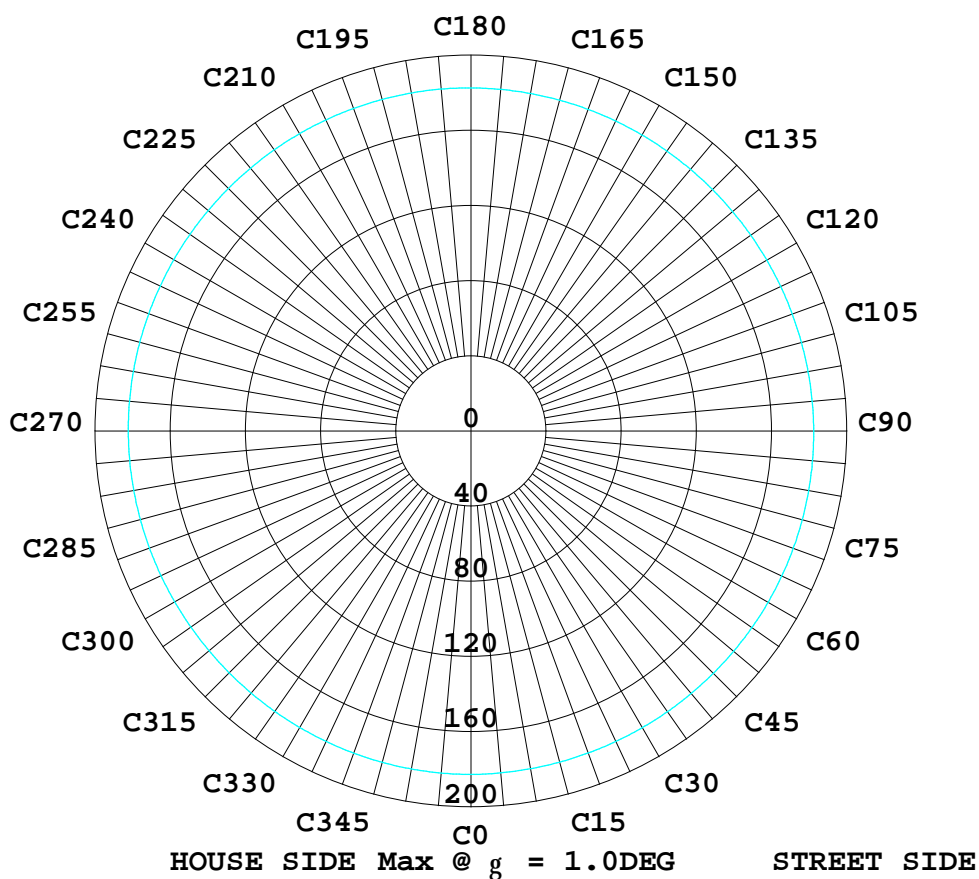
Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.800 m  
 Remarks:

ISOCANDELA DIAGRAM

Report number:

MANUFACTURER:			
Address:			
NAME: COB 528D 24V 16W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/528D	CCT(K): 3000	DIMENSION: 0.5M*0.01M	SERIAL No.: 20230107001



Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.800 m  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER:			
Address:			
NAME: COB 528D 24V 16W 3000K 90		TYPE: LED Strip	WEIGHT:
SPECIFICATION: COB/528D	CCT(K): 3000	DIMENSION: 0.5M*0.01M	SERIAL No.: 20230107001

UNIT: cd

γ (DEG)	C (DEG)							
	0	45	90	135	180	225	270	315
0.0	183	183	182	182	183	183	182	182
5.0	183	182	182	181	182	183	182	182
10.0	181	180	181	179	179	182	182	181
15.0	178	176	179	176	175	180	180	179
20.0	174	173	177	173	171	177	178	176
25.0	168	168	174	168	164	173	175	172
30.0	161	162	170	162	157	168	171	168
35.0	153	155	165	156	148	163	167	162
40.0	144	148	160	149	138	156	162	155
45.0	133	139	155	140	127	149	157	148
50.0	121	131	149	132	114	141	151	139
55.0	109	121	142	123	101	132	145	125
60.0	95.0	112	136	114	86.6	123	138	119
65.0	79.8	103	130	105	71.5	114	132	111
70.0	64.2	94.1	123	96.7	55.5	106	123	104
75.0	47.8	86.5	107	89.0	39.4	98.3	105	97.7
80.0	31.7	78.2	98.9	80.6	24.3	91.1	99.2	91.3
85.0	17.6	69.6	92.7	72.0	11.1	83.1	92.8	84.0
90.0	7.74	53.2	77.3	55.0	3.32	69.6	67.2	70.7
95.0	4.87	2.86	41.5	3.63	2.86	11.6	15.9	11.3
100.0	4.64	2.71	6.65	2.94	2.94	6.27	3.02	6.19
105.0	4.41	2.86	6.04	3.02	3.02	5.80	3.09	5.73
110.0	4.33	2.94	5.57	3.09	3.17	5.49	3.17	5.42
115.0	4.25	3.09	5.34	3.25	3.32	5.26	3.25	5.18
120.0	4.25	3.25	5.18	3.32	3.40	5.11	3.40	5.11
125.0	4.25	3.40	5.03	3.40	3.56	5.03	3.48	4.95
130.0	4.25	3.48	4.95	3.56	3.71	4.95	3.63	4.95
135.0	4.25	3.56	4.87	3.63	3.79	4.87	3.71	4.87
140.0	4.33	3.63	4.80	3.71	3.94	4.87	3.71	4.87
145.0	4.33	3.71	4.72	3.79	4.02	4.80	3.79	4.87
150.0	4.33	3.87	4.72	3.87	4.10	4.80	3.87	4.87
155.0	4.33	3.87	4.64	3.94	4.18	4.72	3.94	4.80
160.0	4.41	3.94	4.64	4.02	4.25	4.72	3.94	4.72
165.0	4.41	3.94	4.64	4.02	4.33	4.64	4.02	4.72
170.0	4.41	3.94	4.64	4.10	4.33	4.64	4.02	4.64
175.0	4.41	4.02	4.64	4.10	4.33	4.56	4.10	4.64
180.0	4.33	4.10	4.56	4.18	4.49	4.49	4.18	4.56

Test System:HOPOO HPG1800  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2023年01月07日

Test Set: 5.0deg/s C-Gamma (TYPE C)  
 Humidity:65.0%  
 Test Distance:8.800 m  
 Remarks: